Pre-Defined Parameters:	
Voltage:	390
Max Current:	860
Coil ID (mm):	10
*Snubber Rating (Watts):	5000

*The pulse-power rating of the device that will dissipate the coil's energy

Color Key:	Puple Cell:		Informational
	Grey Cell:		User-defined value
	Blue Cell:		Input from coil calculator
	Red Text:		Maximum value exceeded
Green Cell,	Yellow Cell,	or Red Cell	Calculated value
Positive	Neutral	Negative	

Coil Calculator instructions:

Go to https://www.accelinstruments.com/Magnetic/Magnetic-field-calculator.html

Set inner radius to half your specified coil ID

Set the coil length to specified value

Set wire diameter with and without insulation*

Input the number of turns calculated by this sheet

Set current to 1A

Set distance from center to 0mm

Set permeability and Compac factor to 1

Input resulting resistance, inductance, and field values into their respective blue boxes

*Not accounting for enamel thickness only has a marginal impact on accuracy

To clear this sheet, highlight the blue and grey columns and press 'del' on your keyboard.

Notes:

1: Power the coil will consume when fully charged by the specified voltage source, it is also how much heat the coil will generate when fully charged.

2: Energy stored within the coil when it is fully charged. It will need to dissipate this when discharging.

3: Amount of power that a device will dissipate when removing energy from the coil. Many devices can handle dozens of times their rated power for a short period of time.

4: Strength of field the coil generates per amp of current flowing through it. Some coils generate generate weaker overall fields, but do it more efficiently.

5: How strong the field will be after it is fully charged by the voltage source specified.

6: How long the coil will take to build OR collapse %98.1 field strength.

7: This value indicates the average linear rate that a coil will build/collapse its field. In reality the coil's initial rate will be much higher, and will slow down asymptotically.

8: This is an arbitrary value that multiplies the field constant by the field rate. It is only intended for comparing coils.

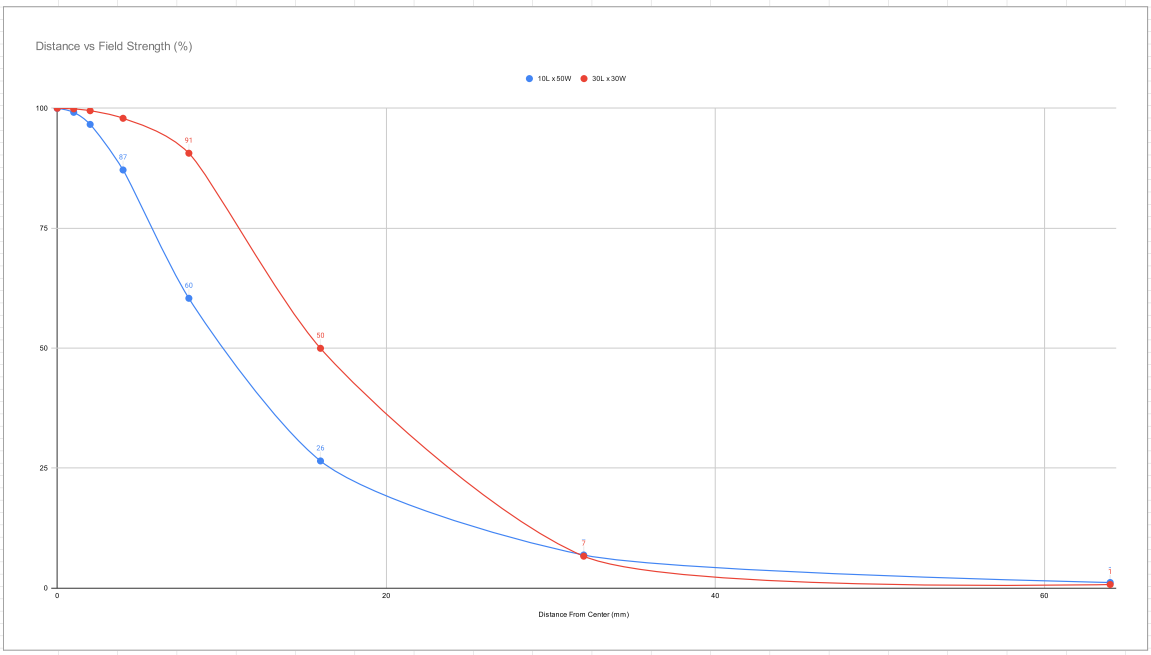
Wire diameter: (Millimeter)	Coil Length: (Millimeter)	Coil OD: (Millimeter)	Coil Volume: (Cubic Cent.)	Layers: #	Turns/Layer: #	Total Turns: #	Resistance: (Ohms)	Inductance: (Microhenry)	Max Current: (Amperes)	Note 1: Max Power: (Kilowatts)	Note 2: Energy Stored: (Joules)	Note 3: Snub Power: (Kilowatts)	Note 4: Field Constant: (Millitesla)	Note 5: Max Field: (Tesla)	Note 6: Charge Time: (Milliseconds)	Note 7: Field Rate: (Tesla/Second)	Note 8: Rating: (Arbitrary)	
0.68	50	50	94.25	29	74	2163	9.22	44811.9	42.3	16.5	40	2.1	46.6437	1.97	19.44	101	4734	
0.68	50	30	31.42	15	74	1081	3.04	6032.2	128.5	50.1	50	6.3	25.2611	3.25	7.95	408	10314	
0.68	50	20	11.78	7	74	541	1.13	951.8	345.7	134.8	57	16.9	13.0530	4.51	3.38	1337	17453	
0.68	30	50	56.55	29	44	1298	5.53	21326.7	70.5	27.5	53	3.4	39.3978	2.78	15.42	180	7096	
0.68	30	30	18.85	15	44	649	1.82	3085.9	213.8	83.4	71	10.4	22.8047	4.88	6.77	721	16431	
0.68	30	20	7.07	7	44	324	0.68	509.2	577.8	225.3	85	28.2	12.2262	7.06	3.02	2341	28622	< Option 1
0.68	20	50	37.70	29	29	865	3.69	11281.1	105.8	41.3	63	5.2	32.1722	3.40	12.24	278	8946	
0.68	20	30	12.57	15	29	433	1.22	1738	320.5	125.0	89	15.6	19.7216	6.32	5.71	1106	21819	
0.68	20	20	4.71	7	29	216	0.45	300.4	866.7	338.0	113	42.3	11.0319	9.56	2.67	3581	39501	< Option 2
0.68	10	50	18.85	29	15	433	1.85	3499	211.2	82.3	78	10.3	19.9381	4.21	7.58	556	11077	
0.68	10	30	6.28	15	15	216	0.61	587.4	643.6	251.0	122	31.4	13.0865	8.42	3.88	2172	28426	< Option 3
0.68	10	20	2.36	7	15	108	0.23	111.7	1733.3	676.0	168	84.5	7.8710	13.64	1.99	6870	54076	
1.02	50	50	94.25	20	49	961	1.80	8842.6	216.8	84.5	208	10.6	20.7781	4.50	19.66	229	4760	
1.02	50	30	31.42	10	49	481	0.59	1195.4	661.0	257.8	261	32.2	11.2589	7.44	8.10	918	10339	
1.02	50	20	11.78	5	49	240	0.22	187.1	1797.2	700.9	302	87.6	5.8017	10.43	3.45	3023	17540	
1.02	30	50	56.55	20	29	577	1.08	4215	360.8	140.7	274	17.6	17.5999	6.35	15.60	407	7165	< Original plan
1.02	30	30	18.85	10	29	288	0.35	607	1104.8	430.9	370	53.9	10.1709	11.24	6.88	1634	16616	
1.02	30	20	7.07	5	29	144	0.13	100.6	3000.0	1170.0	453	146.3	5.4570	16.37	3.10	5289	28861	
1.02	20	50	37.70	20	20	384	0.72	2221.2	542.4	211.5	327	26.4	14.3946	7.81	12.36	632	9095	
1.02	20	30	12.57	10	20	192	0.24	341.2	1659.6	647.2	470	80.9	8.8179	14.63	5.81	2520	22219	
1.02	20	20	4.71	5	20	96	0.09	59.3	4482.8	1748.3	596	218.5	4.9413	22.15	2.73	8124	40145	
1.02	10	50	18.85	20	10	192	0.36	686.9	1086.4	423.7	405	53.0	8.9572	9.73	7.65	1271	11388	
1.02	10	30	6.28	10	10	96	0.12	116	3305.1	1289.0	634	161.1	5.8985	19.50	3.93	4958	29244	
1.02	10	20	2.36	5	10	48	0.04	22.1	9069.8	3537.2	909	442.2	3.5536	32.23	2.06	15678	55712	
1.29	50	50	94.25	16	39	601	0.70	3459.5	559.5	218.2	542	27.3	13.0188	7.28	19.85	367	4777	
1.29	50	30	31.42	8	39	300	0.23	464.1	1718.1	670.0	685	83.8	7.0351	12.09	8.18	1478	10398	
1.29	50	20	11.78	4	39	150	0.08	73.1	4698.8	1832.5	807	229.1	3.6309	17.06	3.52	4843	17584	
1.29	30	50	56.55	16	23	361	0.42	1650.9	930.8	363.0	715	45.4	11.0520	10.29	15.76	653	7214	
1.29	30	30	18.85	8	23	180	0.14	237.1	2867.6	1118.4	975	139.8	6.3801	18.30	6.97	2624	16739	
1.29	30	20	7.07	4	23	90	0.05	39.3	7800.0	3042.0	1196	380.3	3.4214	26.69	3.14	8488	29042	
1.29	20	50	37.70	16	16	240	0.28	867.4	1402.9	547.1	854	68.4	9.0515	12.70	12.48	1017	9209	
1.29	20	30	12.57	8	16	120	0.09	133.3	4285.7	1671.4	1224	208.9	5.5449	23.76	5.86	4056	22489	
1.29	20	20	4.71	4	16	60	0.03	23.2	11818.2	4609.1	1620	576.1	3.1062	36.71	2.81	13054	40549	
1.29	10	50	18.85	16	8	120	0.14	268.3	2805.8	1094.2	1056	136.8	5.6530	15.86	7.72	2054	11613	
1.29	10	30	6.28	8	8	60	0.05	45.3	8666.7	3380.0	1701	422.5	3.7276	32.31	4.03	8023	29906	
1.29	10	20	2.36	4	8	30	0.02	8.6	22941.2	8947.1	2263	1118.4	2.2475	51.56	2.02	25480	57267	

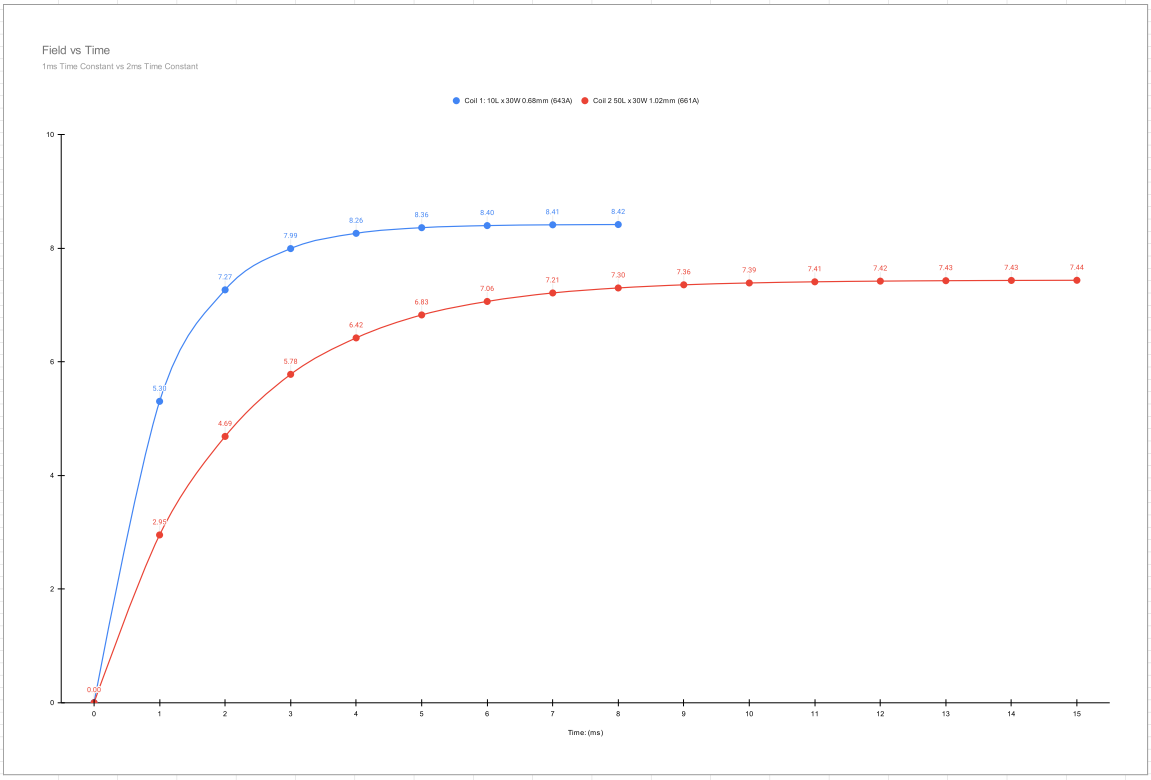
Coil Field vs Distance

	Coil 1	Coil 2
Wire diameter:	0.68mm	0.68
Turns:	433	649
Dimensions:	10L X 50W	30L X 30W
Volume:	18.85	18.85
Current:	211.2	213.8
Time constant:	1.89	1.69
Field:	4.21	4.88

Coil Field vs Time

	Coil 1	Coil 2
Wire diameter:	0.68mm	1.02mm
Dimensions:	10L X 30W	50L X 30W
Current:	643.6A	661A
Time constant:	0.97ms	2.03ms
Field:	8.42	7.44

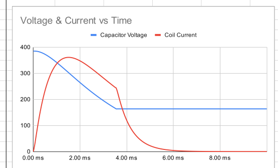


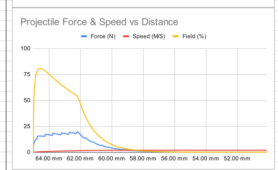


PARAMETERS			
CAPACITOR PROPERTIES			
Voltage:	Capacitance:	Charge:	Energy:
385 V	4600 μF	1.77 C	340.9 J
COIL PROPERTIES			
Resistance:	Inductance:	Time Constant:	
0.86 Ω	536 μH	0.62 ms	
PROJECTILE PROPERTIES			
Mass:	Starting Speed:	Starting Position:	
34.4 g	0.00 M/S	65.00 mm	
SEMICONDUCTOR PROPERTIES			
On Time:	Off Time:	Max Current:	
0.0 ms	3.5 ms		
SIMULATION PROPERTIES			
Time Increment:			
0.05 ms			

TIME INFO	TIME INFO		CAP INFO						COIL INFO				BULLET INFO				
Index: (Number)	Time: (Millisecond)	Next TC: (Millisecond)	Cap Voltage: (Volts)	Cap Charge: (Coulombs)	Cap Energy: (Percentage)	IGBT ON: (True/False)	Ideal Current: (Amps)	Current @ NTC: (Amps)	Current: (Amps)	Inductance: (Microhenry)	Time Constant: (Millisecond)	Field Strength: (Percentage)	Force: (Newtons)	Acceleration: (M/S^2)	Speed: (Meter/Second)	Bullet Position: (Millimeter)	Nearest
# 0	0.00 ms	0.65 ms	385.0 V	1.77 C	100.0 %	TRUE	447.7 A	282.0 A	0.0 A	563.0 μH	0.65 ms	0.0 %	0.0 N	0.0 M/S²	0.00 m/s	65.00 mm	65.00 mm
# 1	0.05 ms	0.70 ms	385.0 V	1.77 C	100.0 %	TRUE	447.7 A	386.4 A	21.5 A	563.0 μH	0.65 ms	4.8 %	0.8 N	23.1 M/S²	0.00 m/s	65.00 mm	65.00 mm
# 2	0.10 ms	0.75 ms	384.8 V	1.77 C	99.9 %	TRUE	447.7 A	425.0 A	49.4 A	563.0 μH	0.65 ms	11.0 %	1.8 N	52.9 M/S²	0.00 m/s	65.00 mm	65.00 mm
# 3	0.15 ms	0.80 ms	384.2 V	1.77 C	99.6 %	TRUE	447.4 A	439.1 A	78.1 A	563.0 μH	0.65 ms	17.4 %	2.9 N	83.7 M/S²	0.00 m/s	65.00 mm	65.00 mm
# 4	0.20 ms	0.85 ms	383.4 V	1.76 C	99.2 %	TRUE	446.8 A	443.9 A	105.7 A	563.0 μH	0.65 ms	23.6 %	3.9 N	113.2 M/S²	0.01 m/s	65.00 mm	65.00 mm
# 5	0.25 ms	0.90 ms	382.2 V	1.76 C	98.6 %	TRUE	445.8 A	445.1 A	131.5 A	563.0 μH	0.65 ms	29.4 %	4.8 N	140.9 M/S²	0.01 m/s	64.99 mm	65.00 mm
# 6	0.30 ms	0.95 ms	380.8 V	1.75 C	97.8 %	TRUE	444.5 A	444.7 A	155.5 A	563.0 μH	0.65 ms	34.7 %	5.7 N	166.5 M/S²	0.02 m/s	64.99 mm	65.00 mm
# 7	0.35 ms	1.00 ms	379.1 V	1.74 C	97.0 %	TRUE	442.8 A	443.5 A	177.5 A	563.0 μH	0.65 ms	39.7 %	6.5 N	190.2 M/S²	0.03 m/s	64.98 mm	65.00 mm
# 8	0.40 ms	1.05 ms	377.2 V	1.74 C	96.0 %	TRUE	440.8 A	441.8 A	197.9 A	563.0 μH	0.65 ms	44.2 %	7.3 N	211.9 M/S²	0.04 m/s	64.98 mm	65.00 mm
# 9	0.45 ms	1.10 ms	375.0 V	1.73 C	94.9 %	TRUE	438.6 A	439.8 A	216.5 A	563.0 μH	0.65 ms	48.4 %	8.0 N	231.9 M/S²	0.05 m/s	64.97 mm	65.00 mm
# 10	0.50 ms	1.15 ms	372.7 V	1.71 C	93.7 %	TRUE	436.1 A	437.5 A	233.5 A	563.0 μH	0.65 ms	52.2 %	8.6 N	250.2 M/S²	0.06 m/s	64.96 mm	65.00 mm
# 11	0.55 ms	1.20 ms	370.1 V	1.70 C	92.4 %	TRUE	433.3 A	434.9 A	249.1 A	563.0 μH	0.65 ms	55.6 %	9.2 N	266.8 M/S²	0.07 m/s	64.95 mm	65.00 mm
# 12	0.60 ms	1.25 ms	367.4 V	1.69 C	91.1 %	TRUE	430.4 A	432.0 A	263.3 A	563.0 μH	0.65 ms	58.8 %	9.7 N	282.0 M/S²	0.09 m/s	64.94 mm	65.00 mm
# 13	0.65 ms	1.30 ms	364.6 V	1.68 C	89.7 %	TRUE	427.2 A	429.0 A	276.2 A	563.0 μH	0.65 ms	61.7 %	10.2 N	295.8 M/S²	0.10 m/s	64.93 mm	65.00 mm
# 14	0.70 ms	1.35 ms	361.6 V	1.66 C	88.2 %	TRUE	423.9 A	425.8 A	287.9 A	563.0 μH	0.65 ms	64.3 %	10.6 N	308.4 M/S²	0.12 m/s	64.92 mm	65.00 mm
# 15	0.75 ms	1.40 ms	358.4 V	1.65 C	86.7 %	TRUE	420.4 A	422.4 A	298.4 A	563.0 μH	0.65 ms	66.7 %	11.0 N	319.6 M/S²	0.13 m/s	64.90 mm	65.00 mm
# 16	0.80 ms	1.45 ms	355.2 V	1.63 C	85.1 %	TRUE	416.8 A	418.9 A	307.9 A	563.0 μH	0.65 ms	68.8 %	11.3 N	329.8 M/S²	0.15 m/s	64.89 mm	65.00 mm
# 17	0.85 ms	1.50 ms	351.8 V	1.62 C	83.5 %	TRUE	413.0 A	415.2 A	316.4 A	563.0 μH	0.65 ms	70.7 %	11.7 N	338.9 M/S²	0.16 m/s	64.87 mm	65.00 mm
# 18	0.90 ms	1.55 ms	348.4 V	1.60 C	81.9 %	TRUE	409.1 A	411.4 A	323.9 A	563.0 μH	0.65 ms	72.4 %	11.9 N	346.9 M/S²	0.18 m/s	64.86 mm	65.00 mm
# 19	0.95 ms	1.60 ms	344.9 V	1.59 C	80.2 %	TRUE	405.1 A	407.4 A	330.6 A	563.0 μH	0.65 ms	73.8 %	12.2 N	354.1 M/S²	0.20 m/s	64.84 mm	65.00 mm
# 20	1.00 ms	1.65 ms	341.3 V	1.57 C	78.6 %	TRUE	401.0 A	403.4 A	336.5 A	563.0 μH	0.65 ms	75.2 %	12.4 N	360.4 M/S²	0.22 m/s	64.82 mm	65.00 mm
# 21	1.05 ms	1.70 ms	337.6 V	1.55 C	76.9 %	TRUE	396.9 A	399.3 A	341.6 A	563.0 μH	0.65 ms	76.3 %	12.6 N	365.9 M/S²	0.23 m/s	64.80 mm	65.00 mm
# 22	1.10 ms	1.75 ms	333.9 V	1.54 C	75.2 %	TRUE	392.6 A	395.1 A	346.0 A	563.0 μH	0.65 ms	77.3 %	12.7 N	370.6 M/S²	0.25 m/s	64.78 mm	65.00 mm
# 23	1.15 ms	1.80 ms	330.2 V	1.52 C	73.5 %	TRUE	388.3 A	390.8 A	349.7 A	563.0 μH	0.65 ms	78.1 %	12.9 N	374.6 M/S²	0.27 m/s	64.76 mm	65.00 mm
# 24	1.20 ms	1.86 ms	326.4 V	1.50 C	71.9 %	TRUE	383.9 A	386.5 A	352.9 A	568.0 μH	0.66 ms	78.8 %	15.2 N	443.3 M/S²	0.29 m/s	64.74 mm	64.50 mm
# 25	1.25 ms	1.91 ms	322.5 V	1.48 C	70.2 %	TRUE	379.5 A	382.1 A	355.4 A	568.0 μH	0.66 ms	79.4 %	15.4 N	446.5 M/S²	0.31 m/s	64.71 mm	64.50 mm
# 26	1.30 ms	1.96 ms	318.7 V	1.47 C	68.5 %	TRUE	375.0 A	377.6 A	357.4 A	568.0 μH	0.66 ms	79.8 %	15.4 N	449.0 M/S²	0.33 m/s	64.68 mm	64.50 mm
# 27	1.35 ms	2.01 ms	314.8 V	1.45 C	66.8 %	TRUE	370.5 A	373.2 A	359.0 A	568.0 μH	0.66 ms	80.2 %	15.5 N	451.0 M/S²	0.36 m/s	64.66 mm	64.50 mm
# 28	1.40 ms	2.06 ms	310.9 V	1.43 C	65.2 %	TRUE	366.0 A	368.7 A	360.0 A	568.0 μH	0.66 ms	80.4 %	15.6 N	452.3 M/S²	0.38 m/s	64.63 mm	64.50 mm
# 29	1.45 ms	2.11 ms	307.0 V	1.41 C	63.6 %	TRUE	361.5 A	364.1 A	360.7 A	568.0 μH	0.66 ms	80.6 %	15.6 N	453.1 M/S²	0.40 m/s	64.60 mm	64.50 mm
# 30	1.50 ms	2.16 ms	303.0 V	1.39 C	62.0 %	TRUE	356.9 A	359.6 A	360.9 A	568.0 μH	0.66 ms	80.6 %	15.6 N	453.5 M/S²	0.42 m/s	64.57 mm	64.50 mm
# 31	1.55 ms	2.21 ms	299.1 V	1.38 C	60.4 %	TRUE	352.4 A	355.1 A	360.8 A	568.0 μH	0.66 ms	80.6 %	15.6 N	453.3 M/S²	0.45 m/s	64.53 mm	64.50 mm
# 32	1.60 ms	2.26 ms	295.2 V	1.36 C	58.8 %	TRUE	347.8 A	350.5 A	360.4 A	568.0 μH	0.66 ms	80.5 %	15.6 N	452.8 M/S²	0.47 m/s	64.50 mm	64.50 mm
# 33	1.65 ms	2.31 ms	291.3 V	1.34 C	57.2 %	TRUE	343.3 A	345.9 A	359.7 A	568.0 μH	0.66 ms	80.3 %	15.5 N	451.8 M/S²	0.49 m/s	64.46 mm	64.50 mm
# 34	1.70 ms	2.36 ms	287.4 V	1.32 C	55.7 %	TRUE	338.7 A	341.4 A	358.6 A	568.0 μH	0.66 ms	80.1 %	15.5 N	450.5 M/S²	0.51 m/s	64.43 mm	64.50 mm
# 35	1.75 ms	2.41 ms	283.5 V	1.30 C	54.2 %	TRUE	334.2 A	336.8 A	357.3 A	568.0 μH	0.66 ms	79.8 %	15.4 N	448.9 M/S²	0.54 m/s	64.39 mm	64.50 mm
# 36	1.80 ms	2.46 ms	279.6 V	1.29 C	52.7 %	TRUE	329.6 A	332.3 A	355.8 A	568.0 μH	0.66 ms	79.5 %	15.4 N	447.0 M/S²	0.56 m/s	64.35 mm	64.50 mm
# 37	1.85 ms	2.51 ms	275.7 V	1.27 C	51.3 %	TRUE	325.1 A	327.8 A	354.0 A	568.0 μH	0.66 ms	79.1 %	15.3 N	444.7 M/S²	0.58 m/s	64.31 mm	64.50 mm
# 38	1.90 ms	2.56 ms	271.9 V	1.25 C	49.9 %	TRUE	320.6 A	323.3 A	352.0 A	568.0 μH	0.66 ms	78.6 %	15.2 N	442.2 M/S²	0.60 m/s	64.27 mm	64.50 mm
# 39	1.95 ms	2.62 ms	268.1 V	1.23 C	48.5 %	TRUE	316.1 A	318.8 A	349.8 A	573.0 μH	0.67 ms	78.1 %	17.3 N	504.3 M/S²	0.63 m/s	64.23 mm	64.00 mm
# 40	2.00 ms	2.67 ms	264.2 V	1.22 C	47.1 %	TRUE	311.7 A	314.3 A	347.5 A	573.0 μH	0.67 ms	77.6 %	17.2 N	500.9 M/S²	0.65 m/s	64.19 mm	64.00 mm
# 41	2.05 ms	2.72 ms	260.5 V	1.20 C	45.8 %	TRUE	307.3 A	309.9 A	345.0 A	573.0 μH	0.67 ms	77.1 %	17.1 N	497.3 M/S²	0.68 m/s	64.14 mm	64.00 mm
# 42	2.10 ms	2.77 ms	256.7 V	1.18 C	44.5 %	TRUE	302.9 A	305.5 A	342.4 A	573.0 μH	0.67 ms	76.5 %	17.0 N	493.5 M/S²	0.70 m/s	64.10 mm	64.00 mm
# 43	2.15 ms	2.82 ms	253.0 V	1.16 C	43.2 %	TRUE	298.5 A	301.1 A	339.6 A	573.0 μH	0.67 ms	75.9 %	16.8 N	489.5 M/S²	0.73 m/s	64.05 mm	64.00 mm
# 44	2.20 ms	2.87 ms	249.3 V	1.15 C	41.9 %	TRUE	294.2 A	296.7 A	336.7 A	573.0 μH	0.67 ms	75.2 %	16.7 N	485.4 M/S²	0.75 m/s	64.00 mm	64.00 mm
# 45	2.25 ms	2.92 ms	245.6 V	1.13 C	40.7 %	TRUE	289.9 A	292.4 A	333.7 A	573.0 μH	0.67 ms	74.5 %	16.5 N	481.0 M/S²	0.77 m/s	63.95 mm	64.00 mm
# 46	2.30 ms	2.97 ms	242.0 V	1.11 C	39.5 %	TRUE	285.6 A	288.2 A	330.6 A	573.0 μH	0.67 ms	73.9 %	16.4 N	476.6 M/S²	0.80 m/s	63.90 mm	64.00 mm
# 47	2.35 ms	3.02 ms	238.4 V	1.10 C	38.4 %	TRUE	281.4 A	283.9 A	327.4 A	573.0 μH	0.67 ms	73.1 %	16.2 N	472.0 M/S²	0.82 m/s	63.85 mm	64.00 mm
# 48	2.40 ms	3.07 ms	234.9 V	1.08 C	37.2 %	TRUE	277.2 A	279.7 A	324.2 A	573.0 μH	0.67 ms	72.4 %	16.1 N	467.3 M/S²	0.85 m/s	63.80 mm	64.00 mm
# 49	2.45 ms	3.12 ms	231.3 V	1.06 C	36.1 %	TRUE	273.1 A	275.5 A	320.8 A	579.0 μH	0.67 ms	71.7 %	18.3 N	531.9 M/S²	0.87 m/s	63.74 mm	63.50 mm
# 50	2.50 ms	3.17 ms	227.9 V	1.05 C	35.0 %	TRUE	269.0 A	271.4 A	317.5 A	579.0 μH	0.67 ms	70.9 %	18.1 N	526.4 M/S²	0.90 m/s	63.69 mm	63.50 mm
# 51	2.55 ms	3.22 ms	224.4 V	1.03 C	34.0 %	TRUE	265.0 A	267.3 A	314.0 A	579.0 μH	0.67 ms	70.1 %	17.9 N	520.7 M/S²	0.92 m/s	63.63 mm	63.50 mm
# 52	2.60 ms	3.27 ms	221.0 V	1.02 C	32.9 %	TRUE	260.9 A	263.3 A	310.6 A	579.0 μH	0.67 ms	69.4 %	17.7 N	514.9 M/S²	0.95 m/s	63.57 mm	63.50 mm
# 53	2.65 ms	3.32 ms	217.6 V	1.00 C	32.0 %	TRUE	257.0 A	259.3 A	307.1 A	579.0 μH	0.67 ms	68.6 %	17.5 N	509.1 M/S²	0.97 m/s	63.51 mm	63.50 mm
# 54	2.70 ms	3.37 ms	214.3 V	0.99 C	31.0 %	TRUE	253.0 A	255.4 A	303.5 A	579.0 μH	0.67 ms	67.8 %	17.3 N	503.2 M/S²	1.00 m/s	63.45 mm	63.50 mm
# 55	2.75 ms	3.42 ms	211.0 V	0.97 C	30.0 %	TRUE	249.2 A	251.5 A	299.9 A	579.0 μH	0.67 ms	67.0 %	17.1 N	497.3 M/S²	1.02 m/s	63.38 mm	63.50 mm
# 56	2.80 ms	3.47 ms	207.7 V	0.96 C	29.1 %	TRUE	245.3 A	247.6 A	296.3 A	579.0 μH	0.67 ms	66.2 %	16.9 N	491.3 M/S²	1.05 m/s	63.32 mm	63.50 mm
# 57	2.85 ms	3.52 ms	204.5 V	0.94 C	28.2 %	TRUE	241.5 A	243.8 A	292.7 A	579.0 μH	0.67 ms	65.4 %	16.7 N	485.3 M/S²	1.07 m/s	63.26 mm	63.50 mm
# 58	2.90 ms	3.58 ms	201.3 V	0.93 C	27.3 %	TRUE	237.8 A	240.0 A	289.1 A	585.0 μH	0.68 ms	64.6 %	18.6 N	541.9 M/S²	1.10 m/s	63.19 mm	63.00 mm
# 59	2.95 ms	3.63 ms	198.2 V	0.91 C	26.5 %	TRUE	234.1 A	236.3 A	285.5 A	585.0 μH	0.68 ms	63.8 %	18.4 N	535.1 M/S²	1.13 m/s	63.12 mm	63.00 mm
# 60	3.00 ms	3.68 ms	195.1 V	0.90 C	25.7 %	TRUE	230.4 A	232.6 A	281.9 A	585.0 μH	0.68 ms	63.0 %	18.2 N	528.4 M/S²	1.15 m/s	63.05 mm	63.00 mm
# 61	3.05 ms	3.73 ms	192.0 V	0.88 C	24.9 %	TRUE	226.8 A	229.0 A	278.2 A	585.0 μH	0.68 ms	62.2 %	17.9 N	521.6 M/S²	1.18 m/s	62.98 mm	63.00 mm
# 62	3.10 ms	3.78 ms	189.0 V	0.87 C	24.1 %	TRUE	223.3 A	225.4 A	274.6 A	585.0 μH	0.68 ms	61.3 %	17.7 N	514.8 M/S²	1.20 m/s	62.91 mm	63.00 mm
# 63	3.15 ms	3.83 ms	186.0 V	0.86 C	23.3 %	TRUE	219.8 A	221.8 A	271.0 A	585.0 μH	0.68 ms	60.5 %	17.5 N	508.0 M/S²	1.23 m/s	62.84 mm	63.00 mm
# 64	3.20 ms	3.88 ms	183.1 V	0.84 C	22.6 %	TRUE	216.3 A	218.3 A	267.4 A	585.0 μH	0.68 ms	59.7 %	17.2 N	501.2 M/S²	1.26 m/s	62.76 mm	63.00 mm
# 65	3.25 ms	3.94 ms	180.1 V	0.83 C	21.9 %	TRUE	212.9 A	214.9 A	263.8 A	593.0 μH	0.69 ms	58.9 %	19.2 N	558.3 M/S²	1.28 m/s	62.69 mm	62.50 mm
# 66	3.30 ms	3.99 ms	177.3 V	0.82 C	21.2 %	TRUE	209.5 A	211.5 A	260.2 A	593.0 μH	0.69 ms	58.1 %	18.9 N	550.8 M/S²	1.31 m/s	62.61 mm	62.50 mm
# 67	3.35 ms	4.04 ms	174.5 V	0.80 C	20.5 %	TRUE	206.1 A	208.1 A	256.7 A	593.0 μH	0.69 ms	57.3 %	18.7 N	543.4 M/S²	1.34 m/s	62.53 mm	62.50 mm
# 68	3.40 ms	4.09 ms	171.7 V	0.79 C	19.9 %	TRUE	202.9 A	204.8 A	253.2 A	593.0 μH	0.69 ms	56.6 %	18.4 N	535.9 M/S²	1.36 m/s	62.45 mm	62.50 mm
# 69	3.45 ms	4.14 ms	168.9 V	0.78 C	19.2 %	TRUE	199.6 A	201.5 A	249.7 A	593.0 μH	0.69 ms	55.8 %	18.2 N	528.5 M/S²	1.39 m/s	62.37 mm	62.50 mm
# 70	3.50 ms	4.19 ms	166.2 V	0.76 C	18.6 %	TRUE	196.4 A	198.3 A	246.2 A	593.0 μH	0.69 ms	55.0 %	17.9 N	521.1 M/S²	1.42 m/s	62.28 mm	62.50 mm
# 71	3.55 ms	4.17 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	73.4 A	242.7 A	601.0 μH	0.62 ms	54.2 %	19.7 N	572.5 M/S²	1.44 m/s	62.20 mm	62.00 mm
# 72	3.60 ms	4.22 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	27.1 A	229.1 A	601.0 μH	0.62 ms	51.2 %	18.6 N	540.4 M/S²	1.47 m/s	62.11 mm	62.00 mm
# 73	3.65 ms	4.27 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	10.0 A	212.9 A	601.0 μH	0.62 ms	47.6 %	17.3 N	502.2 M/S²	1.50 m/s	62.03 mm	62.00 mm
# 74	3.70 ms	4.32 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	3.7 A	196.6 A	601.0 μH	0.62 ms	43.9 %	16.0 N	463.8 M/S²	1.52 m/s	61.94 mm	62.00 mm
# 75	3.75 ms	4.37 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	1.4 A	181.1 A	601.0 μH	0.62 ms	40.5 %	14.7 N	427.3 M/S²	1.55 m/s	61.85 mm	62.00 mm
# 76	3.80 ms	4.42 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.5 A	166.7 A	601.0 μH	0.62 ms	37.2 %	13.5 N	393.3 M/S²	1.57 m/s	61.76 mm	62.00 mm
# 77	3.85 ms	4.47 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.2 A	153.4 A	611.0 μH	0.62 ms	34.3 %	13.9 N	404.2 M/S²	1.59 m/s	61.68 mm	61.50 mm
# 78	3.90 ms	4.52 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.1 A	141.1 A	611.0 μH	0.62 ms	31.5 %	12.8 N	371.8 M/S²	1.61 m/s	61.59 mm	61.50 mm
# 79	3.95 ms	4.57 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	129.8 A	611.0 μH	0.62 ms	29.0 %	11.8 N	342.0 M/S²	1.63 m/s	61.50 mm	61.50 mm
# 80	4.00 ms	4.62 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	119.4 A	611.0 μH	0.62 ms	26.7 %	10.8 N	314.5 M/S²	1.64 m/s	61.41 mm	61.50 mm
# 81	4.05 ms	4.67 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	109.8 A	611.0 μH	0.62 ms	24.5 %	10.0 N	289.3 M/S²	1.66 m/s	61.32 mm	61.50 mm
# 82	4.10 ms	4.72 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	101.0 A	621.0 μH	0.62 ms	22.6 %	10.1 N	294.0 M/S²	1.67 m/s	61.23 mm	61.00 mm
# 83	4.15 ms	4.77 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	92.9 A	621.0 μH	0.62 ms	20.7 %	9.3 N	270.4 M/S²	1.69 m/s	61.14 mm	61.00 mm
# 84	4.20 ms	4.82 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	85.4 A	621.0 μH	0.62 ms	19.1 %	8.6 N	248.7 M/S²	1.70 m/s	61.04 mm	61.00 mm
# 85	4.25 ms	4.87 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	78.6 A	621.0 μH	0.62 ms	17.5 %	7.9 N	228.7 M/S²	1.71 m/s	60.95 mm	61.00 mm
# 86	4.30 ms	4.92 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	72.2 A	621.0 μH	0.62 ms	16.1 %	7.2 N	210.4 M/S²	1.73 m/s	60.86 mm	61.00 mm
# 87	4.35 ms	4.97 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	66.5 A	621.0 μH	0.62 ms	14.8 %	6.7 N	193.5 M/S²	1.74 m/s	60.77 mm	61.00 mm
# 88	4.40 ms	5.02 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	61.1 A	633.5 μH	0.62 ms	13.7 %	6.8 N	197.3 M/S²	1.75 m/s	60.68 mm	60.50 mm
# 89	4.45 ms	5.07 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	56.2 A	633.5 μH	0.62 ms	12.6 %	6.2 N	181.4 M/S²	1.76 m/s	60.59 mm	60.50 mm
# 90	4.50 ms	5.12 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	51.7 A	633.5 μH	0.62 ms	11.5 %	5.7 N	166.9 M/S²	1.77 m/s	60.49 mm	60.50 mm
# 91	4.55 ms	5.17 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	47.6 A	633.5 μH	0.62 ms	10.6 %	5.3 N	153.5 M/S²	1.77 m/s	60.40 mm	60.50 mm
# 92	4.60 ms	5.22 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	43.7 A	633.5 μH	0.62 ms	9.8 %	4.9 N	141.2 M/S²	1.78 m/s	60.31 mm	60.50 mm
# 93	4.65 ms	5.27 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	40.2 A	646.0 μH	0.62 ms	9.0 %	4.9 N	142.6 M/S²	1.79 m/s	60.22 mm	60.00 mm
# 94	4.70 ms	5.32 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	37.0 A	646.0 μH	0.62 ms	8.3 %	4.5 N	131.1 M/S²	1.80 m/s	60.12 mm	60.00 mm
# 95	4.75 ms	5.37 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	34.0 A	646.0 μH	0.62 ms	7.6 %	4.1 N	120.6 M/S²	1.80 m/s	60.03 mm	60.00 mm
# 96	4.80 ms	5.42 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	31.3 A	646.0 μH	0.62 ms	7.0 %	3.8 N	110.9 M/S²	1.81 m/s	59.94 mm	60.00 mm
# 97	4.85 ms	5.47 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	28.8 A	646.0 μH	0.62 ms	6.4 %	3.5 N	102.0 M/S²	1.81 m/s	59.84 mm	60.00 mm
# 98	4.90 ms	5.52 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	26.5 A	646.0 μH	0.62 ms	5.9 %	3.2 N	93.8 M/S²	1.82 m/s	59.75 mm	60.00 mm
# 99	4.95 ms	5.57 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	24.4 A	659.5 μH	0.62 ms	5.4 %	3.3 N	95.2 M/S²	1.82 m/s	59.66 mm	59.50 mm
# 100	5.00 ms	5.62 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	22.4 A	659.5 μH	0.62 ms	5.0 %	3.0 N	87.6 M/S²	1.83 m/s	59.56 mm	59.50 mm
# 101	5.05 ms	5.67 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	20.6 A	659.5 μH	0.62 ms	4.6 %	2.8 N	80.6 M/S²	1.83 m/s	59.47 mm	59.50 mm
# 102	5.10 ms	5.72 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	18.9 A	659.5 μH	0.62 ms	4.2 %	2.5 N	74.1 M/S²	1.84 m/s	59.38 mm	59.50 mm
# 103	5.15 ms	5.77 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	17.4 A	659.5 μH	0.62 ms	3.9 %	2.3 N	68.2 M/S²	1.84 m/s	59.28 mm	59.50 mm
# 104	5.20 ms	5.82 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	16.0 A	673.0 μH	0.62 ms	3.6 %	2.4 N	68.6 M/S²	1.84 m/s	59.19 mm	59.00 mm
# 105	5.25 ms	5.87 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	14.7 A	673.0 μH	0.62 ms	3.3 %	2.2 N	63.1 M/S²	1.85 m/s	59.10 mm	59.00 mm
# 106	5.30 ms	5.92 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	13.6 A	673.0 μH	0.62 ms	3.0 %	2.0 N	58.0 M/S²	1.85 m/s	59.00 mm	59.00 mm
# 107	5.35 ms	5.97 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	12.5 A	673.0 μH	0.62 ms	2.8 %	1.8 N	53.4 M/S²	1.85 m/s	58.91 mm	59.00 mm
# 108	5.40 ms	6.02 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	11.5 A	673.0 μH	0.62 ms	2.6 %	1.7 N	49.1 M/S²	1.86 m/s	58.81 mm	59.00 mm
# 109	5.45 ms	6.07 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	10.5 A	688.5 μH	0.62 ms	2.4 %	1.7 N	48.1 M/S²	1.86 m/s	58.72 mm	58.50 mm
# 110	5.50 ms	6.12 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	9.7 A	688.5 μH	0.62 ms	2.2 %	1.5 N	44.3 M/S²	1.86 m/s	58.63 mm	58.50 mm
# 111	5.55 ms	6.17 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	8.9 A	688.5 μH	0.62 ms	2.0 %	1.4 N	40.7 M/S²	1.86 m/s	58.53 mm	58.50 mm
# 112	5.60 ms	6.22 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	8.2 A	688.5 μH	0.62 ms	1.8 %	1.3 N	37.5 M/S²	1.86 m/s	58.44 mm	58.50 mm
# 113	5.65 ms	6.27 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	7.5 A	688.5 μH	0.62 ms	1.7 %	1.2 N	34.4 M/S²	1.87 m/s	58.34 mm	58.50 mm
# 114	5.70 ms	6.32 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	6.9 A	704.0 μH	0.62 ms	1.6 %	1.2 N	33.7 M/S²	1.87 m/s	58.25 mm	58.00 mm
# 115	5.75 ms	6.37 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	6.4 A	704.0 μH	0.62 ms	1.4 %	1.1 N	31.0 M/S²	1.87 m/s	58.15 mm	58.00 mm
# 116	5.80 ms	6.42 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	5.9 A	704.0 μH	0.62 ms	1.3 %	1.0 N	28.5 M/S²	1.87 m/s	58.06 mm	58.00 mm
# 117	5.85 ms	6.47 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	5.4 A	704.0 μH	0.62 ms	1.2 %	0.9 N	26.2 M/S²	1.87 m/s	57.97 mm	58.00 mm
# 118	5.90 ms	6.52 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	5.0 A	704.0 μH	0.62 ms	1.1 %	0.8 N	24.1 M/S²	1.87 m/s	57.87 mm	58.00 mm
# 119	5.95 ms	6.57 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	4.6 A	704.0 μH	0.62 ms	1.0 %	0.8 N	22.2 M/S²	1.88 m/s	57.78 mm	58.00 mm
# 120	6.00 ms	6.62 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	4.2 A	722.5 μH	0.62 ms	0.9 %	0.8 N	21.8 M/S²	1.88 m/s	57.68 mm	57.50 mm
# 121	6.05 ms	6.67 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	3.9 A	722.5 μH	0.62 ms	0.9 %	0.7 N	20.1 M/S²	1.88 m/s	57.59 mm	57.50 mm
# 122	6.10 ms	6.72 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	3.6 A	722.5 μH	0.62 ms	0.8 %	0.6 N	18.5 M/S²	1.88 m/s	57.49 mm	57.50 mm
# 123	6.15 ms	6.77 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	3.3 A	722.5 μH	0.62 ms	0.7 %	0.6 N	17.0 M/S²	1.88 m/s	57.40 mm	57.50 mm
# 124	6.20 ms	6.82 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	3.0 A	722.5 μH	0.62 ms	0.7 %	0.5 N	15.6 M/S²	1.88 m/s	57.31 mm	57.50 mm
# 125	6.25 ms	6.87 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	2.8 A	741.0 μH	0.62 ms	0.6 %	0.5 N	15.3 M/S²	1.88 m/s	57.21 mm	57.00 mm
# 126	6.30 ms	6.92 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	2.5 A	741.0 μH	0.62 ms	0.6 %	0.5 N	14.1 M/S²	1.88 m/s	57.12 mm	57.00 mm
# 127	6.35 ms	6.97 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	2.3 A	741.0 μH	0.62 ms	0.5 %	0.4 N	12.9 M/S²	1.88 m/s	57.02 mm	57.00 mm
# 128	6.40 ms	7.02 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	2.2 A	741.0 μH	0.62 ms	0.5 %	0.4 N	11.9 M/S²	1.88 m/s	56.93 mm	57.00 mm
# 129	6.45 ms	7.07 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	2.0 A	741.0 μH	0.62 ms	0.4 %	0.4 N	11.0 M/S²	1.88 m/s	56.83 mm	57.00 mm
# 130	6.50 ms	7.12 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	1.8 A	763.0 μH	0.62 ms	0.4 %	0.4 N	10.8 M/S²	1.88 m/s	56.74 mm	56.50 mm
# 131	6.55 ms	7.17 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	1.7 A	763.0 μH	0.62 ms	0.4 %	0.3 N	9.9 M/S²	1.89 m/s	56.64 mm	56.50 mm
# 132	6.60 ms	7.22 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	1.5 A	763.0 μH	0.62 ms	0.3 %	0.3 N	9.1 M/S²	1.89 m/s	56.55 mm	56.50 mm
# 133	6.65 ms	7.27 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	1.4 A	763.0 μH	0.62 ms	0.3 %	0.3 N	8.4 M/S²	1.89 m/s	56.46 mm	56.50 mm
# 134	6.70 ms	7.32 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	1.3 A	763.0 μH	0.62 ms	0.3 %	0.3 N	7.7 M/S²	1.89 m/s	56.36 mm	56.50 mm
# 135	6.75 ms	7.37 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	1.2 A	763.0 μH	0.62 ms	0.3 %	0.2 N	7.1 M/S²	1.89 m/s	56.27 mm	56.50 mm
# 136	6.80 ms	7.42 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	1.1 A	785.0 μH	0.62 ms	0.2 %	0.2 N	7.0 M/S²	1.89 m/s	56.17 mm	56.00 mm
# 137	6.85 ms	7.47 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	1.0 A	785.0 μH	0.62 ms	0.2 %	0.2 N	6.4 M/S²	1.89 m/s	56.08 mm	56.00 mm
# 138	6.90 ms	7.52 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.9 A	785.0 μH	0.62 ms	0.2 %	0.2 N	5.9 M/S²	1.89 m/s	55.98 mm	56.00 mm
# 139	6.95 ms	7.57 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.9 A	785.0 μH	0.62 ms	0.2 %	0.2 N	5.4 M/S²	1.89 m/s	55.89 mm	56.00 mm
# 140	7.00 ms	7.62 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.8 A	785.0 μH	0.62 ms	0.2 %	0.2 N	5.0 M/S²	1.89 m/s	55.79 mm	56.00 mm
# 141	7.05 ms	7.67 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.7 A	809.5 μH	0.62 ms	0.2 %	0.2 N	4.8 M/S²	1.89 m/s	55.70 mm	55.50 mm
# 142	7.10 ms	7.72 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.7 A	809.5 μH	0.62 ms	0.1 %	0.2 N	4.5 M/S²	1.89 m/s	55.60 mm	55.50 mm
# 143	7.15 ms	7.77 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.6 A	809.5 μH	0.62 ms	0.1 %	0.1 N	4.1 M/S²	1.89 m/s	55.51 mm	55.50 mm
# 144	7.20 ms	7.82 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.6 A	809.5 μH	0.62 ms	0.1 %	0.1 N	3.8 M/S²	1.89 m/s	55.42 mm	55.50 mm
# 145	7.25 ms	7.87 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.5 A	809.5 μH	0.62 ms	0.1 %	0.1 N	3.5 M/S²	1.89 m/s	55.32 mm	55.50 mm
# 146	7.30 ms	7.92 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.5 A	834.0 μH	0.62 ms	0.1 %	0.1 N	3.4 M/S²	1.89 m/s	55.23 mm	55.00 mm
# 147	7.35 ms	7.97 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.4 A	834.0 μH	0.62 ms	0.1 %	0.1 N	3.1 M/S²	1.89 m/s	55.13 mm	55.00 mm
# 148	7.40 ms	8.02 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.4 A	834.0 μH	0.62 ms	0.1 %	0.1 N	2.8 M/S²	1.89 m/s	55.04 mm	55.00 mm
# 149	7.45 ms	8.07 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.4 A	834.0 μH	0.62 ms	0.1 %	0.1 N	2.6 M/S²	1.89 m/s	54.94 mm	55.00 mm
# 150	7.50 ms	8.12 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.3 A	834.0 μH	0.62 ms	0.1 %	0.1 N	2.4 M/S²	1.89 m/s	54.85 mm	55.00 mm
# 151	7.55 ms	8.17 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.3 A	834.0 μH	0.62 ms	0.1 %	0.1 N	2.2 M/S²	1.89 m/s	54.75 mm	55.00 mm
# 152	7.60 ms	8.22 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.3 A	854.5 μH	0.62 ms	0.1 %	0.1 N	2.2 M/S²	1.89 m/s	54.66 mm	54.50 mm
# 153	7.65 ms	8.27 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.3 A	854.5 μH	0.62 ms	0.1 %	0.1 N	2.0 M/S²	1.89 m/s	54.56 mm	54.50 mm
# 154	7.70 ms	8.32 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.2 A	854.5 μH	0.62 ms	0.1 %	0.1 N	1.8 M/S²	1.89 m/s	54.47 mm	54.50 mm
# 155	7.75 ms	8.37 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.2 A	854.5 μH	0.62 ms	0.1 %	0.1 N	1.7 M/S²	1.89 m/s	54.38 mm	54.50 mm
# 156	7.80 ms	8.42 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.2 A	854.5 μH	0.62 ms	0.0 %	0.1 N	1.5 M/S²	1.89 m/s	54.28 mm	54.50 mm
# 157	7.85 ms	8.47 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.2 A	875.0 μH	0.62 ms	0.0 %	0.1 N	1.5 M/S²	1.89 m/s	54.19 mm	54.00 mm
# 158	7.90 ms	8.52 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.2 A	875.0 μH	0.62 ms	0.0 %	0.0 N	1.4 M/S²	1.89 m/s	54.09 mm	54.00 mm
# 159	7.95 ms	8.57 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.2 A	875.0 μH	0.62 ms	0.0 %	0.0 N	1.3 M/S²	1.89 m/s	54.00 mm	54.00 mm
# 160	8.00 ms	8.62 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.1 A	875.0 μH	0.62 ms	0.0 %	0.0 N	1.2 M/S²	1.89 m/s	53.90 mm	54.00 mm
# 161	8.05 ms	8.67 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.1 A	875.0 μH	0.62 ms	0.0 %	0.0 N	1.1 M/S²	1.89 m/s	53.81 mm	54.00 mm
# 162	8.10 ms	8.72 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.1 A	901.0 μH	0.62 ms	0.0 %	0.0 N	1.0 M/S²	1.89 m/s	53.71 mm	53.50 mm
# 163	8.15 ms	8.77 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.1 A	901.0 μH	0.62 ms	0.0 %	0.0 N	1.0 M/S²	1.89 m/s	53.62 mm	53.50 mm
# 164	8.20 ms	8.82 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.1 A	901.0 μH	0.62 ms	0.0 %	0.0 N	0.9 M/S²	1.89 m/s	53.52 mm	53.50 mm
# 165	8.25 ms	8.87 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.1 A	901.0 μH	0.62 ms	0.0 %	0.0 N	0.8 M/S²	1.89 m/s	53.43 mm	53.50 mm
# 166	8.30 ms	8.92 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.1 A	901.0 μH	0.62 ms	0.0 %	0.0 N	0.7 M/S²	1.89 m/s	53.33 mm	53.50 mm
# 167	8.35 ms	8.97 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.1 A	927.0 μH	0.62 ms	0.0 %	0.0 N	0.7 M/S²	1.89 m/s	53.24 mm	53.00 mm
# 168	8.40 ms	9.02 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.1 A	927.0 μH	0.62 ms	0.0 %	0.0 N	0.7 M/S²	1.89 m/s	53.15 mm	53.00 mm
# 169	8.45 ms	9.07 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.1 A	927.0 μH	0.62 ms	0.0 %	0.0 N	0.6 M/S²	1.89 m/s	53.05 mm	53.00 mm
# 170	8.50 ms	9.12 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.1 A	927.0 μH	0.62 ms	0.0 %	0.0 N	0.6 M/S²	1.89 m/s	52.96 mm	53.00 mm
# 171	8.55 ms	9.17 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.1 A	927.0 μH	0.62 ms	0.0 %	0.0 N	0.5 M/S²	1.89 m/s	52.86 mm	53.00 mm
# 172	8.60 ms	9.22 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.1 A	927.0 μH	0.62 ms	0.0 %	0.0 N	0.5 M/S²	1.89 m/s	52.77 mm	53.00 mm
# 173	8.65 ms	9.27 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	958.5 μH	0.62 ms	0.0 %	0.0 N	0.5 M/S²	1.89 m/s	52.67 mm	52.50 mm
# 174	8.70 ms	9.32 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	958.5 μH	0.62 ms	0.0 %	0.0 N	0.4 M/S²	1.89 m/s	52.58 mm	52.50 mm
# 175	8.75 ms	9.37 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	958.5 μH	0.62 ms	0.0 %	0.0 N	0.4 M/S²	1.89 m/s	52.48 mm	52.50 mm
# 176	8.80 ms	9.42 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	958.5 μH	0.62 ms	0.0 %	0.0 N	0.4 M/S²	1.89 m/s	52.39 mm	52.50 mm

RESULTS					
Final Velocity: (Meter/Second)	Kinetic Energy: (Joules)	Energy Spent: (Joules)	Efficiency: (Percentage)	Sensor Pulse: (Milliseconds)	Coil Energy: (Joules)
1.89 m/s	0.06 J	279.4 J	0.02%	52.86 ms	18 J
(+1.89 m/s)	(+0.06 J)	(81.96%)			

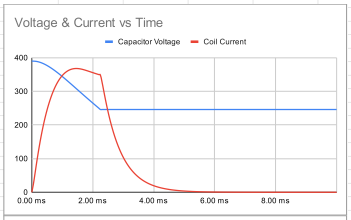


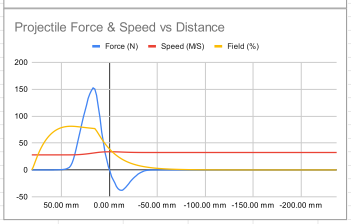


# 177	8.85 ms	9.47 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	958.5 µH	0.62 ms	0.0 %	0.0 N	0.3 M/S^2	1.89 m/s	52.29 mm	52.50 mm
# 178	8.90 ms	9.52 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	990.0 µH	0.62 ms	0.0 %	0.0 N	0.3 M/S^2	1.89 m/s	52.20 mm	52.00 mm
# 179	8.95 ms	9.57 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	990.0 µH	0.62 ms	0.0 %	0.0 N	0.3 M/S^2	1.89 m/s	52.10 mm	52.00 mm
# 180	9.00 ms	9.62 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	990.0 µH	0.62 ms	0.0 %	0.0 N	0.3 M/S^2	1.89 m/s	52.01 mm	52.00 mm
# 181	9.05 ms	9.67 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	990.0 µH	0.62 ms	0.0 %	0.0 N	0.2 M/S^2	1.89 m/s	51.92 mm	52.00 mm
# 182	9.10 ms	9.72 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	990.0 µH	0.62 ms	0.0 %	0.0 N	0.2 M/S^2	1.89 m/s	51.82 mm	52.00 mm
# 183	9.15 ms	9.77 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1023.0 µH	0.62 ms	0.0 %	0.0 N	0.2 M/S^2	1.89 m/s	51.73 mm	51.50 mm
# 184	9.20 ms	9.82 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1023.0 µH	0.62 ms	0.0 %	0.0 N	0.2 M/S^2	1.89 m/s	51.63 mm	51.50 mm
# 185	9.25 ms	9.87 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1023.0 µH	0.62 ms	0.0 %	0.0 N	0.2 M/S^2	1.89 m/s	51.54 mm	51.50 mm
# 186	9.30 ms	9.92 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1023.0 µH	0.62 ms	0.0 %	0.0 N	0.2 M/S^2	1.89 m/s	51.44 mm	51.50 mm
# 187	9.35 ms	9.97 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1023.0 µH	0.62 ms	0.0 %	0.0 N	0.2 M/S^2	1.89 m/s	51.35 mm	51.50 mm
# 188	9.40 ms	10.02 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1023.0 µH	0.62 ms	0.0 %	0.0 N	0.1 M/S^2	1.89 m/s	51.25 mm	51.50 mm
# 189	9.45 ms	10.07 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1056.0 µH	0.62 ms	0.0 %	0.0 N	0.1 M/S^2	1.89 m/s	51.16 mm	51.00 mm
# 190	9.50 ms	10.12 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1056.0 µH	0.62 ms	0.0 %	0.0 N	0.1 M/S^2	1.89 m/s	51.06 mm	51.00 mm
# 191	9.55 ms	10.17 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1056.0 µH	0.62 ms	0.0 %	0.0 N	0.1 M/S^2	1.89 m/s	50.97 mm	51.00 mm
# 192	9.60 ms	10.22 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1056.0 µH	0.62 ms	0.0 %	0.0 N	0.1 M/S^2	1.89 m/s	50.88 mm	51.00 mm
# 193	9.65 ms	10.27 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1056.0 µH	0.62 ms	0.0 %	0.0 N	0.1 M/S^2	1.89 m/s	50.78 mm	51.00 mm
# 194	9.70 ms	10.32 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1081.0 µH	0.62 ms	0.0 %	0.0 N	0.1 M/S^2	1.89 m/s	50.69 mm	50.50 mm
# 195	9.75 ms	10.37 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1081.0 µH	0.62 ms	0.0 %	0.0 N	0.1 M/S^2	1.89 m/s	50.59 mm	50.50 mm
# 196	9.80 ms	10.42 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1081.0 µH	0.62 ms	0.0 %	0.0 N	0.1 M/S^2	1.89 m/s	50.50 mm	50.50 mm
# 197	9.85 ms	10.47 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1081.0 µH	0.62 ms	0.0 %	0.0 N	0.1 M/S^2	1.89 m/s	50.40 mm	50.50 mm
# 198	9.90 ms	10.52 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1081.0 µH	0.62 ms	0.0 %	0.0 N	0.1 M/S^2	1.89 m/s	50.31 mm	50.50 mm
# 199	9.95 ms	10.57 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1106.0 µH	0.62 ms	0.0 %	0.0 N	0.1 M/S^2	1.89 m/s	50.21 mm	50.00 mm
# 200	10.00 ms	10.62 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1106.0 µH	0.62 ms	0.0 %	0.0 N	0.1 M/S^2	1.89 m/s	50.12 mm	50.00 mm
# 201	10.05 ms	10.67 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1106.0 µH	0.62 ms	0.0 %	0.0 N	0.1 M/S^2	1.89 m/s	50.02 mm	50.00 mm
# 202	10.10 ms	10.72 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1106.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	49.93 mm	50.00 mm
# 203	10.15 ms	10.77 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1106.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	49.83 mm	50.00 mm
# 204	10.20 ms	10.82 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1139.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	49.74 mm	49.50 mm
# 205	10.25 ms	10.87 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1139.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	49.65 mm	49.50 mm
# 206	10.30 ms	10.92 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1139.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	49.55 mm	49.50 mm
# 207	10.35 ms	10.97 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1139.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	49.46 mm	49.50 mm
# 208	10.40 ms	11.02 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1139.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	49.36 mm	49.50 mm
# 209	10.45 ms	11.07 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1139.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	49.27 mm	49.50 mm
# 210	10.50 ms	11.12 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1172.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	49.17 mm	49.00 mm
# 211	10.55 ms	11.17 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1172.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	49.08 mm	49.00 mm
# 212	10.60 ms	11.22 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1172.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	48.98 mm	49.00 mm
# 213	10.65 ms	11.27 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1172.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	48.89 mm	49.00 mm
# 214	10.70 ms	11.32 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1172.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	48.79 mm	49.00 mm
# 215	10.75 ms	11.37 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1207.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	48.70 mm	48.50 mm
# 216	10.80 ms	11.42 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1207.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	48.60 mm	48.50 mm
# 217	10.85 ms	11.47 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1207.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	48.51 mm	48.50 mm
# 218	10.90 ms	11.52 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1207.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	48.42 mm	48.50 mm
# 219	10.95 ms	11.57 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1207.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	48.32 mm	48.50 mm
# 220	11.00 ms	11.62 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1242.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	48.23 mm	48.00 mm
# 221	11.05 ms	11.67 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1242.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	48.13 mm	48.00 mm
# 222	11.10 ms	11.72 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1242.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	48.04 mm	48.00 mm
# 223	11.15 ms	11.77 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1242.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	47.94 mm	48.00 mm
# 224	11.20 ms	11.82 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1242.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	47.85 mm	48.00 mm
# 225	11.25 ms	11.87 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1242.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	47.75 mm	48.00 mm
# 226	11.30 ms	11.92 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1273.5 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	47.66 mm	47.50 mm
# 227	11.35 ms	11.97 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1273.5 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	47.56 mm	47.50 mm
# 228	11.40 ms	12.02 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1273.5 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	47.47 mm	47.50 mm
# 229	11.45 ms	12.07 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1273.5 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	47.38 mm	47.50 mm
# 230	11.50 ms	12.12 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1273.5 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	47.28 mm	47.50 mm
# 231	11.55 ms	12.17 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1305.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	47.19 mm	47.00 mm
# 232	11.60 ms	12.22 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1305.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	47.09 mm	47.00 mm
# 233	11.65 ms	12.27 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1305.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	47.00 mm	47.00 mm
# 234	11.70 ms	12.32 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1305.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	46.90 mm	47.00 mm
# 235	11.75 ms	12.37 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1305.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	46.81 mm	47.00 mm
# 236	11.80 ms	12.42 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1337.5 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	46.71 mm	46.50 mm
# 237	11.85 ms	12.47 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1337.5 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	46.62 mm	46.50 mm
# 238	11.90 ms	12.52 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1337.5 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	46.52 mm	46.50 mm
# 239	11.95 ms	12.57 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1337.5 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	46.43 mm	46.50 mm
# 240	12.00 ms	12.62 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1337.5 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	46.33 mm	46.50 mm
# 241	12.05 ms	12.67 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1370.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	46.24 mm	46.00 mm
# 242	12.10 ms	12.72 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1370.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	46.15 mm	46.00 mm
# 243	12.15 ms	12.77 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1370.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	46.05 mm	46.00 mm
# 244	12.20 ms	12.82 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1370.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	45.96 mm	46.00 mm
# 245	12.25 ms	12.87 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1370.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	45.86 mm	46.00 mm
# 246	12.30 ms	12.92 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1370.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	45.77 mm	46.00 mm
# 247	12.35 ms	12.97 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1406.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	45.67 mm	45.50 mm
# 248	12.40 ms	13.02 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1406.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	45.58 mm	45.50 mm
# 249	12.45 ms	13.07 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1406.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	45.48 mm	45.50 mm
# 250	12.50 ms	13.12 ms	163.5 V	0.75 C	18.0 %	FALSE	0.0 A	0.0 A	0.0 A	1406.0 µH	0.62 ms	0.0 %	0.0 N	0.0 M/S^2	1.89 m/s	45.39 mm	45.50 mm

PARAMETERS			
CAPACITOR PROPERTIES			
Voltage:	Capacitance:	Charge:	Energy:
390 V	4590 µF	1.79 C	349.1 J
COIL PROPERTIES			
Resistance:	Inductance:	Time Constant:	
0.86 Ω	536 µH	0.62 ms	
PROJECTILE PROPERTIES			
Mass:	Starting Speed:	Starting Position:	
17.2 g	27.98 M/S	81.00 mm	
SEMICONDUCTOR PROPERTIES			
On Time:	Off Time:	Max Current:	
0.0 ms	2.2 ms		
SIMULATION PROPERTIES			
Time Increment:			
0.05 ms			

TIME INFO		CAP INFO			COIL INFO			BULLET INFO			RESULTS					
Index:	Time:	Cap Voltage:	Cap Energy:	IGBT ON:	Current:	Inductance:	Field Strength:	Force:	Speed:	Bullet Position:	Final Velocity:	Kinetic Energy:	Energy Spent:	Efficiency:	Sensor Pulse:	Coil Energy:
(Number)	(Millisecond)	(Volts)	(Percentage)	(True/False)	(Amps)	(Microhenry)	(Percentage)	(Newtons)	(Meter/Second)	(Millimeter)	(Meter/Second)	(Joules)	(Joules)	(Percentage)	(Milliseconds)	(Joules)
# 0	0.00 ms	390.0 V	100.0 %	TRUE	0.0 A	536.0 µH	0.0 %	0.0 N	27.98 m/s	81.00 mm	32.40 m/s	9.03 J	210.0 J	1.09%	1.54 ms	100 J
# 1	0.05 ms	390.0 V	100.0 %	TRUE	22.9 A	536.0 µH	5.1 %	0.0 N	27.98 m/s	79.60 mm	(+4.42 m/s)	(+2.30 J)	(60.17%)			
# 2	0.10 ms	389.8 V	99.9 %	TRUE	52.5 A	536.0 µH	11.6 %	0.0 N	27.98 m/s	78.20 mm						
# 3	0.15 ms	389.2 V	99.6 %	TRUE	82.8 A	536.0 µH	18.3 %	0.0 N	27.98 m/s	76.80 mm						
# 4	0.20 ms	388.3 V	99.1 %	TRUE	111.8 A	536.0 µH	24.7 %	0.0 N	27.98 m/s	75.40 mm						
# 5	0.25 ms	387.1 V	98.5 %	TRUE	139.0 A	536.0 µH	30.6 %	0.0 N	27.98 m/s	74.01 mm						
# 6	0.30 ms	385.5 V	97.7 %	TRUE	164.0 A	536.0 µH	36.2 %	0.0 N	27.98 m/s	72.61 mm						
# 7	0.35 ms	383.8 V	96.8 %	TRUE	186.9 A	536.0 µH	41.2 %	0.0 N	27.98 m/s	71.21 mm						
# 8	0.40 ms	381.7 V	95.8 %	TRUE	208.0 A	536.0 µH	45.9 %	0.0 N	27.98 m/s	69.81 mm						
# 9	0.45 ms	379.5 V	94.7 %	TRUE	227.2 A	536.0 µH	50.1 %	0.0 N	27.98 m/s	68.41 mm						
# 10	0.50 ms	377.0 V	93.4 %	TRUE	244.7 A	536.0 µH	53.9 %	0.0 N	27.98 m/s	67.01 mm						
# 11	0.55 ms	374.3 V	92.1 %	TRUE	260.5 A	536.0 µH	57.5 %	0.0 N	27.98 m/s	65.61 mm						
# 12	0.60 ms	371.5 V	90.7 %	TRUE	274.9 A	536.0 µH	60.6 %	0.0 N	27.98 m/s	64.21 mm						
# 13	0.65 ms	368.5 V	89.3 %	TRUE	287.9 A	536.0 µH	63.5 %	0.0 N	27.98 m/s	62.81 mm						
# 14	0.70 ms	365.3 V	87.8 %	TRUE	299.6 A	536.0 µH	66.1 %	0.0 N	27.98 m/s	61.41 mm						
# 15	0.75 ms	362.1 V	86.2 %	TRUE	310.1 A	536.0 µH	68.4 %	0.0 N	27.98 m/s	60.02 mm						
# 16	0.80 ms	358.7 V	84.6 %	TRUE	319.5 A	536.0 µH	70.5 %	0.0 N	27.98 m/s	58.62 mm						
# 17	0.85 ms	355.2 V	83.0 %	TRUE	327.8 A	536.0 µH	72.3 %	0.2 N	27.98 m/s	57.22 mm						
# 18	0.90 ms	351.7 V	81.3 %	TRUE	335.2 A	537.0 µH	73.9 %	0.2 N	27.98 m/s	55.82 mm						
# 19	0.95 ms	348.0 V	79.6 %	TRUE	341.6 A	537.5 µH	75.3 %	0.2 N	27.98 m/s	54.42 mm						
# 20	1.00 ms	344.3 V	77.9 %	TRUE	347.2 A	538.0 µH	76.6 %	0.3 N	27.98 m/s	53.02 mm						
# 21	1.05 ms	340.5 V	76.2 %	TRUE	352.0 A	539.0 µH	77.6 %	0.4 N	27.98 m/s	51.62 mm						
# 22	1.10 ms	336.7 V	74.5 %	TRUE	356.0 A	540.0 µH	78.5 %	0.6 N	27.98 m/s	50.22 mm						
# 23	1.15 ms	332.8 V	72.8 %	TRUE	359.4 A	540.0 µH	79.3 %	0.7 N	27.99 m/s	48.82 mm						
# 24	1.20 ms	328.9 V	71.1 %	TRUE	362.2 A	540.5 µH	79.9 %	1.0 N	27.99 m/s	47.42 mm						
# 25	1.25 ms	324.9 V	69.4 %	TRUE	364.3 A	542.0 µH	80.3 %	1.4 N	27.99 m/s	46.02 mm						
# 26	1.30 ms	321.0 V	67.7 %	TRUE	366.0 A	543.5 µH	80.7 %	2.2 N	27.99 m/s	44.62 mm						
# 27	1.35 ms	317.0 V	66.1 %	TRUE	367.1 A	546.0 µH	81.0 %	3.4 N	28.00 m/s	43.21 mm						
# 28	1.40 ms	313.0 V	64.4 %	TRUE	367.8 A	548.0 µH	81.1 %	4.7 N	28.01 m/s	41.81 mm						
# 29	1.45 ms	309.0 V	62.8 %	TRUE	368.1 A	555.0 µH	81.2 %	7.9 N	28.02 m/s	40.40 mm						
# 30	1.50 ms	305.0 V	61.1 %	TRUE	368.0 A	565.0 µH	81.1 %	12.8 N	28.05 m/s	38.99 mm						
# 31	1.55 ms	300.9 V	59.5 %	TRUE	367.5 A	583.0 µH	81.0 %	19.8 N	28.08 m/s	37.57 mm						
# 32	1.60 ms	296.9 V	58.0 %	TRUE	366.8 A	609.0 µH	80.9 %	28.8 N	28.14 m/s	36.14 mm						
# 33	1.65 ms	292.9 V	56.4 %	TRUE	365.8 A	645.0 µH	80.7 %	39.4 N	28.23 m/s	34.69 mm						
# 34	1.70 ms	289.0 V	54.9 %	TRUE	364.6 A	689.0 µH	80.4 %	51.2 N	28.34 m/s	33.22 mm						
# 35	1.75 ms	285.0 V	53.4 %	TRUE	363.3 A	745.5 µH	80.1 %	62.8 N	28.49 m/s	31.73 mm						
# 36	1.80 ms	281.0 V	51.9 %	TRUE	361.9 A	806.0 µH	79.8 %	74.5 N	28.67 m/s	30.21 mm						
# 37	1.85 ms	277.1 V	50.5 %	TRUE	360.4 A	879.5 µH	79.5 %	86.8 N	28.89 m/s	28.67 mm						
# 38	1.90 ms	273.2 V	49.1 %	TRUE	358.9 A	960.0 µH	79.1 %	98.8 N	29.14 m/s	27.10 mm						
# 39	1.95 ms	269.3 V	47.7 %	TRUE	357.3 A	1043.5 µH	78.8 %	109.4 N	29.43 m/s	25.50 mm						
# 40	2.00 ms	265.4 V	46.3 %	TRUE	355.8 A	1138.0 µH	78.5 %	120.4 N	29.75 m/s	23.87 mm						
# 41	2.05 ms	261.5 V	45.0 %	TRUE	354.3 A	1266.0 µH	78.1 %	132.9 N	30.10 m/s	22.20 mm						
# 42	2.10 ms	257.6 V	43.6 %	TRUE	352.8 A	1375.5 µH	77.8 %	141.1 N	30.48 m/s	20.51 mm						
# 43	2.15 ms	253.8 V	42.3 %	TRUE	351.4 A	1486.0 µH	77.5 %	147.6 N	30.89 m/s	18.78 mm						
# 44	2.20 ms	250.0 V	41.1 %	TRUE	350.0 A	1626.0 µH	77.2 %	152.5 N	31.32 m/s	17.02 mm						
# 45	2.25 ms	246.1 V	39.8 %	FALSE	348.6 A	1773.0 µH	76.9 %	150.3 N	31.77 m/s	15.23 mm						
# 46	2.30 ms	246.1 V	39.8 %	FALSE	329.5 A	1870.5 µH	72.6 %	138.8 N	32.20 m/s	13.42 mm						
# 47	2.35 ms	246.1 V	39.8 %	FALSE	306.3 A	1978.5 µH	67.5 %	117.5 N	32.61 m/s	11.61 mm						
# 48	2.40 ms	246.1 V	39.8 %	FALSE	282.9 A	2040.0 µH	62.4 %	96.8 N	32.95 m/s	9.81 mm						
# 49	2.45 ms	246.1 V	39.8 %	FALSE	260.7 A	2120.0 µH	57.5 %	69.9 N	33.23 m/s	8.02 mm						
# 50	2.50 ms	246.1 V	39.8 %	FALSE	239.9 A	2170.0 µH	52.9 %	51.3 N	33.43 m/s	6.26 mm						
# 51	2.55 ms	246.1 V	39.8 %	FALSE	220.7 A	2220.0 µH	48.7 %	31.8 N	33.58 m/s	4.51 mm						
# 52	2.60 ms	246.1 V	39.8 %	FALSE	203.0 A	2240.0 µH	44.8 %	19.1 N	33.67 m/s	2.79 mm						
# 53	2.65 ms	246.1 V	39.8 %	FALSE	186.7 A	2260.0 µH	41.2 %	6.0 N	33.73 m/s	1.08 mm						
# 54	2.70 ms	246.1 V	39.8 %	FALSE	171.8 A	2265.0 µH	37.9 %	-2.8 N	33.75 m/s	-0.62 mm						
# 55	2.75 ms	246.1 V	39.8 %	FALSE	158.0 A	2245.0 µH	34.8 %	-12.5 N	33.74 m/s	-2.30 mm						
# 56	2.80 ms	246.1 V	39.8 %	FALSE	145.3 A	2230.0 µH	32.0 %	-18.4 N	33.70 m/s	-3.97 mm						
# 57	2.85 ms	246.1 V	39.8 %	FALSE	133.6 A	2195.0 µH	29.5 %	-24.0 N	33.65 m/s	-5.63 mm						
# 58	2.90 ms	246.1 V	39.8 %	FALSE	122.9 A	2140.0 µH	27.1 %	-30.7 N	33.58 m/s	-7.28 mm						
# 59	2.95 ms	246.1 V	39.8 %	FALSE	113.0 A	2080.0 µH	24.9 %	-34.7 N	33.49 m/s	-8.91 mm						
# 60	3.00 ms	246.1 V	39.8 %	FALSE	104.0 A	2015.0 µH	22.9 %	-37.1 N	33.39 m/s	-10.53 mm						
# 61	3.05 ms	246.1 V	39.8 %	FALSE	95.6 A	1967.0 µH	21.1 %	-37.9 N	33.28 m/s	-12.15 mm						
# 62	3.10 ms	246.1 V	39.8 %	FALSE	88.0 A	1838.0 µH	19.4 %	-37.6 N	33.17 m/s	-13.76 mm						
# 63	3.15 ms	246.1 V	39.8 %	FALSE	80.9 A	1737.0 µH	17.8 %	-35.1 N	33.06 m/s	-15.36 mm						
# 64	3.20 ms	246.1 V	39.8 %	FALSE	74.4 A	1626.0 µH	16.4 %	-32.4 N	32.96 m/s	-16.97 mm						
# 65	3.25 ms	246.1 V	39.8 %	FALSE	68.4 A	1520.0 µH	15.1 %	-29.1 N	32.87 m/s	-18.57 mm						
# 66	3.30 ms	246.1 V	39.8 %	FALSE	62.9 A	1414.0 µH	13.9 %	-25.7 N	32.78 m/s	-20.17 mm						
# 67	3.35 ms	246.1 V	39.8 %	FALSE	57.9 A	1266.0 µH	12.8 %	-21.7 N	32.71 m/s	-21.77 mm						
# 68	3.40 ms	246.1 V	39.8 %	FALSE	53.2 A	1171.5 µH	11.7 %	-18.5 N	32.64 m/s	-23.37 mm						
# 69	3.45 ms	246.1 V	39.8 %	FALSE	49.0 A	1074.0 µH	10.8 %	-15.5 N	32.59 m/s	-24.98 mm						
# 70	3.50 ms	246.1 V	39.8 %	FALSE	45.0 A	986.5 µH	9.9 %	-12.9 N	32.54 m/s	-26.58 mm						
# 71	3.55 ms	246.1 V	39.8 %	FALSE	41.4 A	906.0 µH	9.1 %	-10.5 N	32.51 m/s	-28.19 mm						
# 72	3.60 ms	246.1 V	39.8 %	FALSE	38.1 A	806.0 µH	8.4 %	-7.8 N	32.48 m/s	-29.80 mm						
# 73	3.65 ms	246.1 V	39.8 %	FALSE	35.0 A	745.5 µH	7.7 %	-6.1 N	32.45 m/s	-31.42 mm						
# 74	3.70 ms	246.1 V	39.8 %	FALSE	32.2 A	689.0 µH	7.1 %	-4.5 N	32.44 m/s	-33.03 mm						
# 75	3.75 ms	246.1 V	39.8 %	FALSE	29.6 A	645.0 µH	6.5 %	-3.2 N	32.42 m/s	-34.64 mm						
# 76	3.80 ms	246.1 V	39.8 %	FALSE	27.3 A	599.5 µH	6.0 %	-1.9 N	32.41 m/s	-36.26 mm						
# 77	3.85 ms	246.1 V	39.8 %	FALSE	25.1 A	576.0 µH	5.5 %	-1.2 N	32.41 m/s	-37.88 mm						
# 78	3.90 ms	246.1 V	39.8 %	FALSE	23.1 A	561.5 µH	5.1 %	-0.7 N	32.40 m/s	-39.50 mm						
# 79	3.95 ms	246.1 V	39.8 %	FALSE	21.2 A	552.0 µH	4.7 %	-0.4 N	32.40 m/s	-41.12 mm						
# 80	4.00 ms	246.1 V	39.8 %	FALSE	19.5 A	547.0 µH	4.3 %	-0.2 N	32.40 m/s	-42.74 mm						
# 81	4.05 ms	246.1 V	39.8 %	FALSE	17.9 A	543.5 µH	4.0 %	-0.1 N	32.40 m/s	-44.36 mm						
# 82	4.10 ms	246.1 V	39.8 %	FALSE	16.5 A	542.0 µH	3.6 %	-0.1 N	32.40 m/s	-45.98 mm						
# 83	4.15 ms	246.1 V	39.8 %	FALSE	15.2 A	540.5 µH	3.3 %	0.0 N	32.40 m/s	-47.60 mm						
# 84	4.20 ms	246.1 V	39.8 %	FALSE	14.0 A	540.0 µH	3.1 %	0.0 N	32.40 m/s	-49.22 mm						
# 85	4.25 ms	246.1 V	39.8 %	FALSE	12.8 A	539.0 µH	2.8 %	0.0 N	32.40 m/s	-50.84 mm						
# 86	4.30 ms	246.1 V	39.8 %	FALSE	11.8 A	538.5 µH	2.6 %	0.0 N	32.40 m/s	-52.46 mm						
# 87	4.35 ms	246.1 V	39.8 %	FALSE	10.9 A	538.0 µH	2.4 %	0.0 N	32.40 m/s	-54.08 mm						
# 88	4.40 ms	246.1 V	39.8 %	FALSE	10.0 A	537.0 µH	2.2 %	0.0 N	32.40 m/s	-55.70 mm						
# 89	4.45 ms	246.1 V	39.8 %	FALSE	9.2 A	536.0 µH	2.0 %	0.0 N	32.40 m/s	-57.32 mm						
# 90	4.50 ms	246.1 V	39.8 %	FALSE	8.5 A	536.0 µH	1.9 %	0.0 N	32.40 m/s	-58.94 mm						
# 91	4.55 ms	246.1 V	39.8 %	FALSE	7.8 A	536.0 µH	1.7 %	0.0 N	32.40 m/s	-60.56 mm						
# 92	4.60 ms	246.1 V	39.8 %	FALSE	7.1 A	536.0 µH	1.6 %	0.0 N	32.40 m/s	-62.18 mm						
# 93	4.65 ms	246.1 V	39.8 %	FALSE	6.6 A	536.0 µH	1.4 %	0.0 N	32.40 m/s	-63.80 mm						
# 94	4.70 ms	246.1 V	39.8 %	FALSE	6.0 A	536.0 µH	1.3 %	0.0 N	32.40 m/s	-65.42 mm						
# 95	4.75 ms	246.1 V	39.8 %	FALSE	5.6 A	536.0 µH	1.2 %	0.0 N	32.40 m/s	-67.04 mm						
# 96	4.80 ms	246.1 V	39.8 %	FALSE	5.1 A	536.0 µH	1.1 %	0.0 N	32.40 m/s	-68.66 mm						
# 97	4.85 ms	246.1 V	39.8 %	FALSE	4.7 A	536.0 µH	1.0 %	0.0 N	32.40 m/s	-70.28 mm						
# 98	4.90 ms	246.1 V	39.8 %	FALSE	4.3 A	536.0 µH	1.0 %	0.0 N	32.40 m/s	-71.90 mm						
# 99	4.95 ms	246.1 V	39.8 %	FALSE	4.0 A	536.0 µH	0.9 %	0.0 N	32.40 m/s	-73.52 mm						
# 100	5.00 ms	246.1 V	39.8 %	FALSE	3.7 A	536.0 µH	0.8 %	0.0 N	32.40 m/s	-75.14 mm						
# 101	5.05 ms	246.1 V	39.8 %	FALSE	3.4 A	536.0 µH	0.7 %	0.0 N	32.40 m/s	-76.76 mm						
# 102	5.10 ms	246.1 V	39.8 %	FALSE	3.1 A	536.0 µH	0.7 %	0.0 N	32.40 m/s	-78.38 mm						
# 103	5.15 ms	246.1 V	39.8 %	FALSE	2.8 A	536.0 µH	0.6 %	0.0 N	32.40 m/s	-80.00 mm						
# 104	5.20 ms	246.1 V	39.8 %	FALSE	2.6 A	536.0 µH	0.6 %	0.0 N	32.40 m/s	-81.62 mm						
# 105	5.25 ms	246.1 V	39.8 %	FALSE	2.4 A	536.0 µH	0.5 %	0.0 N	32.40 m/s	-83.24 mm						
# 106	5.30 ms	246.1 V	39.8 %	FALSE	2.2 A	536.0 µH	0.5 %	0.0 N	32.40 m/s	-84.86 mm						
# 107	5.35 ms	246.1 V	39.8 %	FALSE	2.0 A	536.0 µH	0.4 %	0.0 N	32.40 m/s	-86.48 mm						
# 108	5.40 ms	246.1 V	39.8 %	FALSE	1.9 A	536.0 µH	0.4 %	0.0 N	32.40 m/s	-88.10 mm						
# 109	5.45 ms	246.1 V	39.8 %	FALSE	1.7 A	536.0 µH	0.4 %	0.0 N	32.40 m/s	-89.72 mm						
# 110	5.50 ms	246.1 V	39.8 %	FALSE	1.6 A	536.0 µH	0.3 %	0.0 N	32.40 m/s	-91.34 mm						
# 111	5.55 ms	246.1 V	39.8 %	FALSE	1.5 A	536.0 µH	0.3 %	0.0 N	32.40 m/s	-92.96 mm						
# 112	5.60 ms	246.1 V	39.8 %	FALSE	1.3 A	536.0 µH	0.3 %	0.0 N	32.40 m/s	-94.58 mm						
# 113	5.65 ms	246.1 V	39.8 %	FALSE	1.2 A	536.0 µH	0.3 %	0.0 N	32.40 m/s	-96.20 mm						
# 114	5.70 ms	246.1 V	39.8 %	FALSE	1.1 A	536.0 µH	0.3 %	0.0 N	32.40 m/s	-97.82 mm						
# 115	5.75 ms	246.1 V	39.8 %	FALSE	1.0 A	536.0 µH	0.2 %	0.0 N	32.40 m/s	-99.44 mm						
# 116	5.80 ms	246.1 V	39.8 %	FALSE	1.0 A	536.0 µH	0.2 %	0.0 N	32.40 m/s	-101.06 mm						
# 117	5.85 ms	246.1 V	39.8 %	FALSE	0.9 A	536.0 µH	0.2 %	0.0 N	32.40 m/s	-102.68 mm						
# 118	5.90 ms	246.1 V	39.8 %	FALSE	0.8 A	536.0 µH	0.2 %	0.0 N	32.40 m/s	-104.30 mm						
# 119	5.95 ms	246.1 V	39.8 %	FALSE	0.7 A	536.0 µH	0.2 %	0.0 N	32.40 m/s	-105.92 mm						
# 120	6.00 ms	246.1 V	39.8 %	FALSE	0.7 A	536.0 µH	0.2 %	0.0 N	32.40 m/s	-107.54 mm						
# 121	6.05 ms	246.1 V	39.8 %	FALSE	0.6 A	536.0 µH	0.1 %	0.0 N	32.40 m/s	-109.16 mm						
# 122	6.10 ms	246.1 V	39.8 %	FALSE	0.6 A	536.0 µH	0.1 %	0.0 N	32.40 m/s	-110.78 mm						
# 123	6.15 ms	246.1 V	39.8 %	FALSE	0.5 A	536.0 µH	0.1 %	0.0 N	32.40 m/s	-112.40 mm						
# 124	6.20 ms	246.1 V	39.8 %	FALSE	0.5 A	536.0 µH	0.1 %	0.0 N	32.40 m/s	-114.02 mm						
# 125	6.25 ms	246.1 V	39.8 %	FALSE	0.5 A	536.0 µH	0.1 %	0.0 N	32.40 m/s	-115.64 mm						
# 126	6.30 ms	246.1 V	39.8 %	FALSE	0.4 A	536.0 µH	0.1 %	0.0 N	32.40 m/s	-117.26 mm						
# 127	6.35 ms	246.1 V	39.8 %	FALSE	0.4 A	536.0 µH	0.1 %	0.0 N	32.40 m/s	-118.88 mm						
# 128	6.40 ms	246.1 V	39.8 %	FALSE	0.4 A	536.0 µH	0.1 %	0.0 N	32.40 m/s	-120.50 mm						
# 129	6.45 ms	246.1 V	39.8 %	FALSE	0.3 A	536.0 µH	0.1 %	0.0 N	32.40 m/s	-122.12 mm						
# 130	6.50 ms	246.1 V	39.8 %	FALSE	0.3 A	536.0 µH	0.1 %	0.0 N	32.40 m/s	-123.74 mm						
# 131	6.55 ms	246.1 V	39.8 %	FALSE	0.3 A	536.0 µH	0.1 %	0.0 N	32.40 m/s	-125.36 mm						

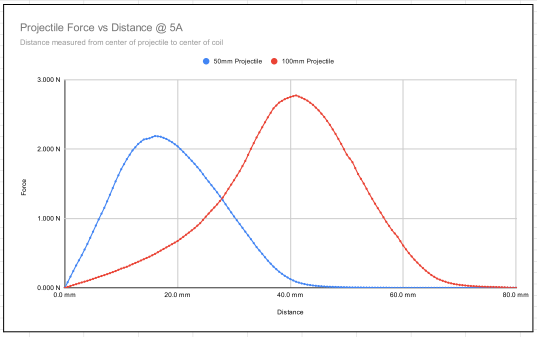


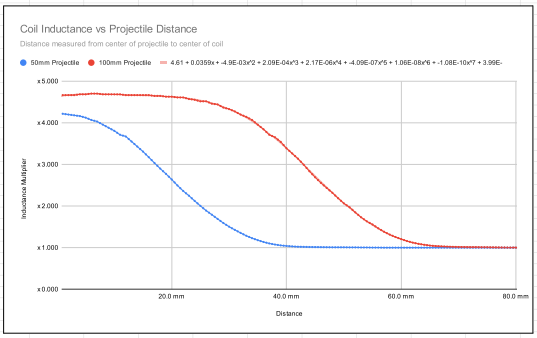


# 132	6.60 ms	246.1 V	39.8 %	FALSE	0.3 A	536.0 µH	0.1 %	0.0 N	32.40 m/s	-126.98 mm
# 133	6.65 ms	246.1 V	39.8 %	FALSE	0.2 A	536.0 µH	0.1 %	0.0 N	32.40 m/s	-128.60 mm
# 134	6.70 ms	246.1 V	39.8 %	FALSE	0.2 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-130.22 mm
# 135	6.75 ms	246.1 V	39.8 %	FALSE	0.2 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-131.84 mm
# 136	6.80 ms	246.1 V	39.8 %	FALSE	0.2 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-133.46 mm
# 137	6.85 ms	246.1 V	39.8 %	FALSE	0.2 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-135.08 mm
# 138	6.90 ms	246.1 V	39.8 %	FALSE	0.2 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-136.70 mm
# 139	6.95 ms	246.1 V	39.8 %	FALSE	0.1 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-138.32 mm
# 140	7.00 ms	246.1 V	39.8 %	FALSE	0.1 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-139.94 mm
# 141	7.05 ms	246.1 V	39.8 %	FALSE	0.1 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-141.56 mm
# 142	7.10 ms	246.1 V	39.8 %	FALSE	0.1 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-143.18 mm
# 143	7.15 ms	246.1 V	39.8 %	FALSE	0.1 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-144.80 mm
# 144	7.20 ms	246.1 V	39.8 %	FALSE	0.1 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-146.42 mm
# 145	7.25 ms	246.1 V	39.8 %	FALSE	0.1 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-148.04 mm
# 146	7.30 ms	246.1 V	39.8 %	FALSE	0.1 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-149.66 mm
# 147	7.35 ms	246.1 V	39.8 %	FALSE	0.1 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-151.28 mm
# 148	7.40 ms	246.1 V	39.8 %	FALSE	0.1 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-152.90 mm
# 149	7.45 ms	246.1 V	39.8 %	FALSE	0.1 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-154.52 mm
# 150	7.50 ms	246.1 V	39.8 %	FALSE	0.1 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-156.14 mm
# 151	7.55 ms	246.1 V	39.8 %	FALSE	0.1 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-157.76 mm
# 152	7.60 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-159.38 mm
# 153	7.65 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-161.00 mm
# 154	7.70 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-162.62 mm
# 155	7.75 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-164.24 mm
# 156	7.80 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-165.86 mm
# 157	7.85 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-167.48 mm
# 158	7.90 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-169.10 mm
# 159	7.95 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-170.72 mm
# 160	8.00 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-172.34 mm
# 161	8.05 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-173.96 mm
# 162	8.10 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-175.58 mm
# 163	8.15 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-177.20 mm
# 164	8.20 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-178.82 mm
# 165	8.25 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-180.44 mm
# 166	8.30 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-182.06 mm
# 167	8.35 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-183.68 mm
# 168	8.40 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-185.30 mm
# 169	8.45 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-186.92 mm
# 170	8.50 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-188.54 mm
# 171	8.55 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-190.16 mm
# 172	8.60 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-191.78 mm
# 173	8.65 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-193.40 mm
# 174	8.70 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-195.02 mm
# 175	8.75 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-196.64 mm
# 176	8.80 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-198.26 mm
# 177	8.85 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-199.88 mm
# 178	8.90 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-201.50 mm
# 179	8.95 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-203.12 mm
# 180	9.00 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-204.74 mm
# 181	9.05 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-206.36 mm
# 182	9.10 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-207.98 mm
# 183	9.15 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-209.60 mm
# 184	9.20 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-211.22 mm
# 185	9.25 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-212.84 mm
# 186	9.30 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-214.46 mm
# 187	9.35 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-216.08 mm
# 188	9.40 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-217.70 mm
# 189	9.45 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-219.32 mm
# 190	9.50 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-220.94 mm
# 191	9.55 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-222.56 mm
# 192	9.60 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-224.18 mm
# 193	9.65 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-225.80 mm
# 194	9.70 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-227.42 mm
# 195	9.75 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-229.04 mm
# 196	9.80 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-230.66 mm
# 197	9.85 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-232.28 mm
# 198	9.90 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-233.90 mm
# 199	9.95 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-235.52 mm
# 200	10.00 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-237.14 mm
# 201	10.05 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-238.76 mm
# 202	10.10 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-240.38 mm
# 203	10.15 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-242.00 mm
# 204	10.20 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-243.62 mm
# 205	10.25 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-245.24 mm
# 206	10.30 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-246.86 mm
# 207	10.35 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-248.48 mm
# 208	10.40 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-250.10 mm
# 209	10.45 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-251.72 mm
# 210	10.50 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-253.34 mm
# 211	10.55 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-254.96 mm
# 212	10.60 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-256.58 mm
# 213	10.65 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-258.20 mm
# 214	10.70 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-259.82 mm
# 215	10.75 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-261.44 mm
# 216	10.80 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-263.06 mm
# 217	10.85 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-264.68 mm
# 218	10.90 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-266.30 mm
# 219	10.95 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-267.92 mm
# 220	11.00 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-269.54 mm
# 221	11.05 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-271.16 mm
# 222	11.10 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-272.78 mm
# 223	11.15 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-274.40 mm
# 224	11.20 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-276.02 mm
# 225	11.25 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-277.64 mm
# 226	11.30 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-279.26 mm
# 227	11.35 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-280.88 mm
# 228	11.40 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-282.50 mm
# 229	11.45 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-284.12 mm
# 230	11.50 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-285.74 mm
# 231	11.55 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-287.36 mm
# 232	11.60 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-288.98 mm
# 233	11.65 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-290.60 mm
# 234	11.70 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-292.22 mm
# 235	11.75 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-293.84 mm
# 236	11.80 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-295.46 mm
# 237	11.85 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-297.08 mm
# 238	11.90 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-298.70 mm
# 239	11.95 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-300.32 mm
# 240	12.00 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-301.94 mm
# 241	12.05 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-303.56 mm
# 242	12.10 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-305.18 mm
# 243	12.15 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-306.80 mm
# 244	12.20 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-308.42 mm
# 245	12.25 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-310.04 mm
# 246	12.30 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-311.66 mm
# 247	12.35 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-313.28 mm
# 248	12.40 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-314.90 mm
# 249	12.45 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-316.52 mm
# 250	12.50 ms	246.1 V	39.8 %	FALSE	0.0 A	536.0 µH	0.0 %	0.0 N	32.40 m/s	-318.14 mm

Coil force mapping	
coil: 328T 30 x 20	536uH 0.86 ohm

	7.5 x 50mm steel rod		Impulse:	100.53		7.5 x 100mm steel rod		Impulse:	157.57	
distance (mm)	force	force	coil inductance	multiplier	time constant	force	force	inductance	multiplier	time constant
0.0 mm	0.0 g	0.000 N	2270 µH	x 4.235	2.64 ms	0.0 g	0.000 N	2500 µH	x 4.664	2.91 ms
0.5 mm	8.3 g	0.081 N	2265 µH	x 4.226	2.63 ms	1.4 g	0.014 N	2500 µH	x 4.664	2.91 ms
1.0 mm	16.5 g	0.162 N	2260 µH	x 4.216	2.63 ms	2.8 g	0.027 N	2500 µH	x 4.664	2.91 ms
1.5 mm	24.7 g	0.242 N	2255 µH	x 4.207	2.62 ms	4.1 g	0.040 N	2500 µH	x 4.664	2.91 ms
2.0 mm	32.9 g	0.322 N	2250 µH	x 4.198	2.62 ms	5.4 g	0.053 N	2500 µH	x 4.664	2.91 ms
2.5 mm	40.5 g	0.396 N	2245 µH	x 4.188	2.61 ms	6.7 g	0.065 N	2500 µH	x 4.664	2.91 ms
3.0 mm	48.0 g	0.470 N	2240 µH	x 4.179	2.60 ms	7.9 g	0.077 N	2500 µH	x 4.664	2.91 ms
3.5 mm	56.3 g	0.552 N	2235 µH	x 4.170	2.60 ms	9.2 g	0.090 N	2505 µH	x 4.674	2.91 ms
4.0 mm	64.6 g	0.633 N	2230 µH	x 4.160	2.59 ms	10.4 g	0.102 N	2510 µH	x 4.683	2.92 ms
4.5 mm	73.6 g	0.721 N	2220 µH	x 4.142	2.58 ms	11.8 g	0.116 N	2510 µH	x 4.683	2.92 ms
5.0 mm	82.6 g	0.809 N	2210 µH	x 4.123	2.57 ms	13.2 g	0.129 N	2510 µH	x 4.683	2.92 ms
5.5 mm	91.6 g	0.898 N	2195 µH	x 4.095	2.55 ms	14.7 g	0.144 N	2515 µH	x 4.692	2.92 ms
6.0 mm	100.6 g	0.986 N	2180 µH	x 4.067	2.53 ms	16.1 g	0.158 N	2520 µH	x 4.701	2.93 ms
6.5 mm	109.2 g	1.070 N	2170 µH	x 4.049	2.52 ms	17.4 g	0.171 N	2520 µH	x 4.701	2.93 ms
7.0 mm	117.7 g	1.153 N	2160 µH	x 4.030	2.51 ms	18.7 g	0.183 N	2520 µH	x 4.701	2.93 ms
7.5 mm	127.3 g	1.248 N	2140 µH	x 3.993	2.49 ms	20.2 g	0.197 N	2515 µH	x 4.692	2.92 ms
8.0 mm	136.9 g	1.342 N	2120 µH	x 3.955	2.47 ms	21.6 g	0.212 N	2510 µH	x 4.683	2.92 ms
8.5 mm	146.8 g	1.438 N	2100 µH	x 3.918	2.44 ms	23.2 g	0.227 N	2510 µH	x 4.683	2.92 ms
9.0 mm	156.6 g	1.535 N	2080 µH	x 3.881	2.42 ms	24.7 g	0.242 N	2510 µH	x 4.683	2.92 ms
9.5 mm	165.6 g	1.622 N	2060 µH	x 3.843	2.40 ms	26.5 g	0.260 N	2510 µH	x 4.683	2.92 ms
10.0 mm	174.5 g	1.710 N	2040 µH	x 3.806	2.37 ms	28.3 g	0.277 N	2510 µH	x 4.683	2.92 ms
10.5 mm	181.9 g	1.783 N	2015 µH	x 3.759	2.34 ms	29.7 g	0.291 N	2510 µH	x 4.683	2.92 ms
11.0 mm	189.3 g	1.855 N	1990 µH	x 3.713	2.31 ms	31.0 g	0.304 N	2510 µH	x 4.683	2.92 ms
11.5 mm	195.7 g	1.918 N	1979 µH	x 3.691	2.30 ms	32.9 g	0.322 N	2505 µH	x 4.674	2.91 ms
12.0 mm	202.1 g	1.981 N	1967 µH	x 3.670	2.29 ms	34.8 g	0.341 N	2500 µH	x 4.664	2.91 ms
12.5 mm	206.9 g	2.027 N	1939 µH	x 3.610	2.25 ms	36.6 g	0.359 N	2500 µH	x 4.664	2.91 ms
13.0 mm	211.6 g	2.074 N	1903 µH	x 3.550	2.21 ms	38.4 g	0.376 N	2500 µH	x 4.664	2.91 ms
13.5 mm	214.9 g	2.106 N	1871 µH	x 3.490	2.18 ms	40.3 g	0.394 N	2500 µH	x 4.664	2.91 ms
14.0 mm	218.2 g	2.138 N	1838 µH	x 3.429	2.14 ms	42.1 g	0.413 N	2500 µH	x 4.664	2.91 ms
14.5 mm	219.1 g	2.147 N	1806 µH	x 3.368	2.10 ms	44.0 g	0.431 N	2500 µH	x 4.664	2.91 ms
15.0 mm	220.0 g	2.156 N	1773 µH	x 3.308	2.06 ms	45.8 g	0.449 N	2500 µH	x 4.664	2.91 ms
15.5 mm	221.7 g	2.172 N	1737 µH	x 3.241	2.02 ms	47.9 g	0.469 N	2500 µH	x 4.664	2.91 ms
16.0 mm	223.3 g	2.188 N	1701 µH	x 3.174	1.98 ms	50.0 g	0.490 N	2500 µH	x 4.664	2.91 ms
16.5 mm	222.8 g	2.183 N	1664 µH	x 3.104	1.93 ms	52.4 g	0.514 N	2495 µH	x 4.655	2.90 ms
17.0 mm	222.3 g	2.179 N	1626 µH	x 3.034	1.89 ms	54.8 g	0.537 N	2490 µH	x 4.646	2.90 ms
17.5 mm	220.7 g	2.162 N	1591 µH	x 2.966	1.85 ms	57.2 g	0.560 N	2490 µH	x 4.646	2.90 ms
18.0 mm	219.0 g	2.146 N	1554 µH	x 2.899	1.81 ms	59.5 g	0.583 N	2490 µH	x 4.646	2.90 ms
18.5 mm	216.7 g	2.123 N	1520 µH	x 2.836	1.77 ms	61.9 g	0.606 N	2485 µH	x 4.636	2.89 ms
19.0 mm	214.3 g	2.100 N	1486 µH	x 2.772	1.73 ms	64.2 g	0.629 N	2480 µH	x 4.627	2.88 ms
19.5 mm	211.3 g	2.070 N	1450 µH	x 2.705	1.69 ms	66.6 g	0.652 N	2480 µH	x 4.627	2.88 ms
20.0 mm	208.2 g	2.040 N	1414 µH	x 2.638	1.64 ms	68.9 g	0.675 N	2480 µH	x 4.627	2.88 ms
20.5 mm	204.1 g	2.000 N	1379 µH	x 2.566	1.60 ms	72.0 g	0.705 N	2475 µH	x 4.618	2.88 ms
21.0 mm	200.0 g	1.960 N	1337 µH	x 2.494	1.55 ms	75.0 g	0.735 N	2470 µH	x 4.608	2.87 ms
21.5 mm	195.7 g	1.918 N	1302 µH	x 2.428	1.51 ms	78.2 g	0.766 N	2470 µH	x 4.608	2.87 ms
22.0 mm	191.4 g	1.876 N	1266 µH	x 2.362	1.47 ms	81.3 g	0.797 N	2470 µH	x 4.608	2.87 ms
22.5 mm	186.9 g	1.832 N	1236 µH	x 2.305	1.44 ms	84.6 g	0.829 N	2460 µH	x 4.590	2.86 ms
23.0 mm	182.4 g	1.788 N	1205 µH	x 2.248	1.40 ms	87.8 g	0.860 N	2450 µH	x 4.571	2.85 ms
23.5 mm	177.6 g	1.740 N	1172 µH	x 2.186	1.36 ms	91.5 g	0.897 N	2445 µH	x 4.562	2.84 ms
24.0 mm	172.7 g	1.692 N	1138 µH	x 2.123	1.32 ms	95.2 g	0.933 N	2440 µH	x 4.552	2.84 ms
24.5 mm	167.1 g	1.638 N	1106 µH	x 2.063	1.29 ms	100.0 g	0.980 N	2430 µH	x 4.534	2.83 ms
25.0 mm	161.5 g	1.583 N	1074 µH	x 2.004	1.25 ms	104.7 g	1.026 N	2420 µH	x 4.515	2.81 ms
25.5 mm	156.3 g	1.531 N	1044 µH	x 1.947	1.21 ms	109.3 g	1.071 N	2420 µH	x 4.515	2.81 ms
26.0 mm	151.0 g	1.480 N	1013 µH	x 1.890	1.18 ms	113.8 g	1.115 N	2420 µH	x 4.515	2.81 ms
26.5 mm	145.8 g	1.428 N	987 µH	x 1.840	1.15 ms	118.3 g	1.159 N	2405 µH	x 4.487	2.80 ms
27.0 mm	140.5 g	1.377 N	960 µH	x 1.791	1.12 ms	122.7 g	1.202 N	2390 µH	x 4.459	2.78 ms
27.5 mm	134.8 g	1.321 N	933 µH	x 1.741	1.08 ms	127.7 g	1.251 N	2385 µH	x 4.450	2.77 ms
28.0 mm	129.0 g	1.264 N	906 µH	x 1.690	1.05 ms	132.7 g	1.300 N	2380 µH	x 4.440	2.77 ms
28.5 mm	123.0 g	1.205 N	880 µH	x 1.641	1.02 ms	139.2 g	1.364 N	2360 µH	x 4.403	2.74 ms
29.0 mm	116.9 g	1.146 N	853 µH	x 1.591	0.99 ms	145.6 g	1.427 N	2340 µH	x 4.366	2.72 ms
29.5 mm	111.0 g	1.087 N	830 µH	x 1.548	0.96 ms	152.0 g	1.489 N	2330 µH	x 4.347	2.71 ms
30.0 mm	105.0 g	1.029 N	806 µH	x 1.504	0.94 ms	158.3 g	1.551 N	2320 µH	x 4.328	2.70 ms
30.5 mm	99.5 g	0.975 N	786 µH	x 1.465	0.91 ms	165.0 g	1.617 N	2305 µH	x 4.300	2.68 ms
31.0 mm	93.9 g	0.920 N	765 µH	x 1.427	0.89 ms	171.6 g	1.682 N	2290 µH	x 4.272	2.66 ms
31.5 mm	88.3 g	0.865 N	746 µH	x 1.391	0.87 ms	179.2 g	1.756 N	2270 µH	x 4.235	2.64 ms
32.0 mm	82.6 g	0.809 N	726 µH	x 1.354	0.84 ms	186.7 g	1.830 N	2250 µH	x 4.198	2.62 ms
32.5 mm	77.1 g	0.756 N	708 µH	x 1.320	0.82 ms	195.6 g	1.917 N	2235 µH	x 4.170	2.60 ms
33.0 mm	71.6 g	0.702 N	689 µH	x 1.285	0.80 ms	204.5 g	2.004 N	2220 µH	x 4.142	2.58 ms
33.5 mm	65.8 g	0.645 N	674 µH	x 1.257	0.78 ms	212.9 g	2.086 N	2200 µH	x 4.104	2.56 ms
34.0 mm	60.0 g	0.588 N	658 µH	x 1.228	0.77 ms	221.2 g	2.168 N	2180 µH	x 4.067	2.53 ms
34.5 mm	55.0 g	0.539 N	645 µH	x 1.203	0.75 ms	228.8 g	2.242 N	2150 µH	x 4.011	2.50 ms
35.0 mm	50.0 g	0.490 N	632 µH	x 1.179	0.73 ms	236.3 g	2.316 N	2120 µH	x 3.955	2.47 ms
35.5 mm	45.0 g	0.441 N	621 µH	x 1.158	0.72 ms	243.6 g	2.387 N	2090 µH	x 3.899	2.43 ms
36.0 mm	40.0 g	0.392 N	609 µH	x 1.136	0.71 ms	250.8 g	2.458 N	2060 µH	x 3.843	2.40 ms
36.5 mm	35.6 g	0.349 N	600 µH	x 1.118	0.70 ms	257.4 g	2.523 N	2025 µH	x 3.778	2.35 ms
37.0 mm	31.2 g	0.306 N	590 µH	x 1.101	0.69 ms	264.0 g	2.587 N	1990 µH	x 3.713	2.31 ms
37.5 mm	27.5 g	0.269 N	583 µH	x 1.088	0.68 ms	268.3 g	2.629 N	1974 µH	x 3.682	2.29 ms
38.0 mm	23.7 g	0.232 N	576 µH	x 1.075	0.67 ms	272.5 g	2.671 N	1957 µH	x 3.651	2.28 ms
38.5 mm	20.7 g	0.203 N	571 µH	x 1.064	0.66 ms	275.0 g	2.695 N	1928 µH	x 3.596	2.24 ms
39.0 mm	17.7 g	0.173 N	565 µH	x 1.054	0.66 ms	277.5 g	2.720 N	1898 µH	x 3.541	2.21 ms
39.5 mm	15.3 g	0.149 N	562 µH	x 1.048	0.65 ms	279.2 g	2.736 N	1857 µH	x 3.465	2.16 ms
40.0 mm	12.8 g	0.125 N	558 µH	x 1.041	0.65 ms	280.8 g	2.752 N	1816 µH	x 3.388	2.11 ms
40.5 mm	10.9 g	0.107 N	555 µH	x 1.035	0.65 ms	281.9 g	2.763 N	1783 µH	x 3.326	2.07 ms
41.0 mm	9.0 g	0.088 N	552 µH	x 1.030	0.64 ms	283.0 g	2.773 N	1749 µH	x 3.263	2.03 ms
41.5 mm	7.8 g	0.076 N	550 µH	x 1.026	0.64 ms	281.4 g	2.757 N	1716 µH	x 3.201	1.99 ms
42.0 mm	6.5 g	0.064 N	548 µH	x 1.022	0.64 ms	279.7 g	2.741 N	1682 µH	x 3.138	1.96 ms
42.5 mm	5.6 g	0.055 N	547 µH	x 1.021	0.64 ms	277.6 g	2.720 N	1643 µH	x 3.065	1.91 ms
43.0 mm	4.7 g	0.046 N	546 µH	x 1.019	0.63 ms	275.4 g	2.699 N	1604 µH	x 2.993	1.87 ms
43.5 mm	4.1 g	0.040 N	545 µH	x 1.017	0.63 ms	272.3 g	2.669 N	1562 µH	x 2.914	1.82 ms
44.0 mm	3.5 g	0.034 N	544 µH	x 1.015	0.63 ms	269.2 g	2.638 N	1520 µH	x 2.836	1.77 ms
44.5 mm	3.1 g	0.030 N	544 µH	x 1.014	0.63 ms	265.2 g	2.598 N	1481 µH	x 2.763	1.72 ms
45.0 mm	2.6 g	0.025 N	543 µH	x 1.013	0.63 ms	261.1 g	2.559 N	1442 µH	x 2.690	1.68 ms
45.5 mm	2.3 g	0.023 N	543 µH	x 1.012	0.63 ms	256.2 g	2.511 N	1406 µH	x 2.623	1.63 ms
46.0 mm	2.0 g	0.020 N	542 µH	x 1.011	0.63 ms	251.3 g	2.463 N	1370 µH	x 2.556	1.59 ms
46.5 mm	1.8 g	0.018 N	542 µH	x 1.010	0.63 ms	245.6 g	2.406 N	1338 µH	x 2.495	1.56 ms
47.0 mm	1.6 g	0.016 N	541 µH	x 1.009	0.63 ms	239.8 g	2.350 N	1305 µH	x 2.435	1.52 ms
47.5 mm	1.5 g	0.014 N	541 µH	x 1.008	0.63 ms	233.1 g	2.284 N	1274 µH	x 2.376	1.48 ms
48.0 mm	1.3 g	0.013 N	540 µH	x 1.007	0.63 ms	226.4 g	2.219 N	1242 µH	x 2.317	1.44 ms
48.5 mm	1.2 g	0.011 N	540 µH	x 1.007	0.63 ms	219.1 g	2.147 N	1207 µH	x 2.252	1.40 ms
49.0 mm	1.0 g	0.010 N	540 µH	x 1.007	0.63 ms	211.7 g	2.075 N	1172 µH	x 2.187	1.36 ms
49.5 mm	0.9 g	0.009 N	540 µH	x 1.007	0.63 ms	203.9 g	1.998 N	1139 µH	x 2.125	1.32 ms
50.0 mm	0.8 g	0.008 N	540 µH	x 1.007	0.63 ms	196.0 g	1.921 N	1106 µH	x 2.063	1.29 ms
50.5 mm	0.7 g	0.007 N	540 µH	x 1.007	0.63 ms	190.4 g	1.866 N	1081 µH	x 2.017	1.26 ms
51.0 mm	0.6 g	0.006 N	539 µH	x 1.006	0.63 ms	184.8 g	1.811 N	1056 µH	x 1.970	1.23 ms
51.5 mm	0.6 g	0.006 N	539 µH	x 1.006	0.63 ms	176.1 g	1.726 N	1023 µH	x 1.909	1.19 ms
52.0 mm	0.6 g	0.006 N	539 µH	x 1.006	0.63 ms	167.4 g	1.641 N	990 µH	x 1.847	1.15 ms
52.5 mm	0.6 g	0.005 N	539 µH	x 1.005	0.63 ms	160.4 g	1.572 N	959 µH	x 1.788	1.11 ms
53.0 mm	0.5 g	0.005 N	538 µH	x 1.004	0.63 ms	153.4 g	1.503 N	927 µH	x 1.729	1.08 ms
53.5 mm	0.5 g	0.004 N	538 µH	x 1.004	0.63 ms	145.8 g	1.428 N	901 µH	x 1.681	1.05 ms
54.0 mm	0.4 g	0.004 N	538 µH	x 1.004	0.63 ms	138.1 g	1.353 N	875 µH	x 1.632	1.02 ms
54.5 mm	0.4 g	0.003 N	538 µH	x 1.003	0.63 ms	131.0 g	1.283 N	855 µH	x 1.594	0.99 ms
55.0 mm	0.3 g	0.003 N	537 µH	x 1.002	0.62 ms	123.8 g	1.213 N	834 µH	x 1.556	0.97 ms
55.5 mm	0.3 g	0.003 N	537 µH	x 1.002	0.62 ms	117.3 g	1.149 N	810 µH	x 1.510	0.94 ms
56.0 mm	0.3 g	0.003 N	537 µH	x 1.002	0.62 ms	110.7 g	1.085 N	785 µH	x 1.465	0.91 ms
56.5 mm	0.3 g	0.003 N	537 µH	x 1.001	0.62 ms	103.9 g	1.018 N	763 µH	x 1.424	0.89 ms
57.0 mm	0.3 g	0.003 N	536 µH	x 1.000	0.62 ms	97.1 g	0.952 N	741 µH	x 1.382	0.86 ms
57.5 mm	0.2 g	0.001 N	536 µH	x 1.000	0.62 ms	91.1 g	0.893 N	723 µH	x 1.348	0.84 ms
58.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	85.1 g	0.834 N	704 µH	x 1.313	0.82 ms
58.5 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	80.1 g	0.785 N	689 µH	x 1.285	0.80 ms
59.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	75.1 g	0.736 N	673 µH	x 1.256	0.78 ms
59.5 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	68.7 g	0.673 N	660 µH	x 1.230	0.77 ms
60.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	62.2 g	0.610 N	646 µH	x 1.205	0.75 ms
60.5 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	56.7 g	0.555 N	634 µH	x 1.182	0.74 ms
61.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	51.1 g	0.501 N	621 µH	x 1.159	0.72 ms
61.5 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	46.3 g	0.453 N	611 µH	x 1.140	0.71 ms
62.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	41.4 g	0.406 N	601 µH	x 1.121	0.70 ms
62.5 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	37.2 g	0.364 N	593 µH	x 1.106	0.69 ms
63.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	32.9 g	0.322 N	585 µH	x 1.091	0.68 ms
63.5 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	29.1 g	0.285 N	579 µH	x 1.080	0.67 ms
64.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	25.3 g	0.248 N	573 µH	x 1.069	0.67 ms
64.5 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	22.1 g	0.216 N	568 µH	x 1.060	0.66 ms
65.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	18.8 g	0.184 N	563 µH	x 1.050	0.65 ms
65.5 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	16.3 g	0.159 N	560 µH	x 1.044	0.65 ms
66.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	13.7 g	0.134 N	556 µH	x 1.037	0.65 ms
66.5 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	12.1 g	0.118 N	554 µH	x 1.034	0.64 ms
67.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	10.4 g	0.102 N	552 µH	x 1.030	0.64 ms
67.5 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	9.0 g	0.088 N	551 µH	x 1.027	0.64 ms
68.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	7.6 g	0.074 N	549 µH	x 1.024	0.64 ms
68.5 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	6.7 g	0.065 N	548 µH	x 1.021	0.64 ms
69.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	5.7 g	0.056 N	546 µH	x 1.019	0.63 ms
69.5 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	5.1 g	0.049 N	545 µH	x 1.017	0.63 ms
70.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	4.4 g	0.043 N	544 µH	x 1.015	0.63 ms
70.5 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	4.0 g	0.039 N	544 µH	x 1.014	0.63 ms
71.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	3.5 g	0.034 N	543 µH	x 1.013	0.63 ms
71.5 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	3.1 g	0.030 N	543 µH	x 1.012	0.63 ms
72.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	2.7 g	0.026 N	542 µH	x 1.011	0.63 ms
72.5 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	2.5 g	0.024 N	542 µH	x 1.011	0.63 ms
73.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	2.2 g	0.022 N	542 µH	x 1.011	0.63 ms
73.5 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	2.0 g	0.020 N	542 µH	x 1.010	0.63 ms
74.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	1.8 g	0.018 N	541 µH	x 1.009	0.63 ms
74.5 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	1.7 g	0.016 N	541 µH	x 1.009	0.63 ms
75.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	1.5 g	0.015 N	541 µH	x 1.009	0.63 ms
75.5 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	1.4 g	0.014 N	541 µH	x 1.008	0.63 ms
76.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	1.3 g	0.013 N	540 µH	x 1.007	0.63 ms
76.5 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	1.2 g	0.011 N	540 µH	x 1.007	0.63 ms





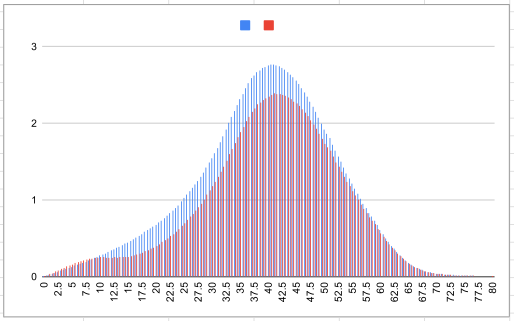
length	impulse
0	
25	
50	50.27
70	
100	78.78
125	
150	

	77.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	1.0 g	0.010 N	539 µH	x 1.006	0.63 ms														
	77.5 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	0.9 g	0.008 N	539 µH	x 1.005	0.63 ms														
	78.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	0.7 g	0.007 N	538 µH	x 1.004	0.63 ms														
	78.5 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	0.5 g	0.005 N	538 µH	x 1.003	0.63 ms														
	79.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	0.3 g	0.003 N	537 µH	x 1.002	0.62 ms														
	79.5 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	0.2 g	0.001 N	537 µH	x 1.001	0.62 ms														
	80.0 mm	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms	0.0 g	0.000 N	536 µH	x 1.000	0.62 ms														

Distance	40L			30L	496.2		20L	7.5		10L			
0				12.225	6066.045		11.0311	82.73325					
0.5	0	0		12.21895	6063.04299		11.0134	82.6005		0	0		
1				12.2129	6060.04098		10.9957	82.46775					
1.5	0	0		12.19455	6050.93571		10.9415	82.06125		0	0		
2				12.1762	6041.83044		10.8873	81.65475					
2.5	0	0		12.1446	6026.15052		10.79375	80.953125		0	0		
3				12.113	6010.4706		10.7002	80.2515					
3.5	0	0		12.0667	5987.49654		10.5625	79.21875		0	0		
4				12.0204	5964.52248		10.4248	78.186					
4.5	0	0		11.95715	5933.13783		10.2364	76.773		0	0		
5				11.8939	5901.75318		10.048	75.36					
5.5	0	0		11.81045	5860.34529		9.8017	73.51275		0	0		
6				11.727	5818.9374		9.5554	71.6655					
6.5	0	0		11.61925	5765.47185		9.2449	69.33675		0	0		
7				11.5115	5712.0063		8.9344	67.008					
7.5	0	0		11.37395	5643.75399		8.55825	64.186875		0	0		
8				11.2364	5575.50168		8.1821	61.36575					
8.5	0	0		11.06225	5489.08845		7.74875	58.115625		0	0		
9				10.8881	5402.67522		7.3154	54.8655					
9.5	0	0		10.66945	5294.18109		6.84685	51.351375		0	0		
10				10.4508	5185.68696		6.3783	47.83725					
10.5	0	0		10.1791	5050.86942		5.90735	44.305125		0	0		
11				9.9074	4916.05188		5.4364	40.773					
11.5	0	0		9.57555	4751.38791		4.99575	37.468125		0	0		
12				9.2437	4586.72394		4.5551	34.16325					
12.5	0	0		8.84945	4391.09709		4.1665	31.24875		0	0		
13				8.4552	4195.47024		3.7779	28.33425					
13.5	0	0		8.0064	3972.77568		3.4494	25.8705		0	0		
14				7.5576	3750.08112		3.1209	23.40675					
14.5	0	0		7.0758	3511.01196		2.85035	21.377625		0	0		
15				6.594	3271.9428		2.5798	19.3485					
15.5	0	0		6.11165	3032.60073		2.36	17.7		0	0		
16				5.6293	2793.25866		2.1402	16.0515					
16.5	0	0		5.17875	2569.69575		1.96275	14.720625		0	0		
17				4.7282	2346.13284		1.7853	13.38975					
17.5	0	0		4.33105	2149.06701		1.64205	12.315375		0	0		
18				3.9339	1952.00118		1.4988	11.241					
18.5	0	0		3.5979	1785.27798		1.3829	10.37175		0	0		
19				3.2619	1618.55478		1.267	9.5025					
19.5	0	0		2.98475	1481.03295		1.17275	8.795625		0	0		
20				2.7076	1343.51112		1.0785	8.08875					
20.5	0	0		2.482	1231.5684		1.0014	7.5105		0	0		
21				2.2564	1119.62568		0.9243	6.93225					
21.5	0	0		2.07385	1029.04437		0.8608	6.456		0	0		
22				1.8913	938.46306		0.7973	5.97975					
22.5	0	0		1.7435	865.1247		0.7447	5.58525		0	0		
23				1.5957	791.78634		0.6921	5.19075					
23.5	0	0		1.47575	732.26715		0.6482	4.8615		0	0		
24				1.3558	672.74796		0.6043	4.53225					
24.5	0	0		1.25795	624.19479		0.56745	4.255875		0	0		
25				1.1601	575.64162		0.5306	3.9795					
25.5	0	0		1.07975	535.77195		0.49945	3.745875		0	0		
26				0.9994	495.90228		0.4683	3.51225					
26.5	0	0		0.93305	462.97941		0.4418	3.3135		0	0		
27				0.8667	430.05654		0.4153	3.11475					
27.5	0	0		0.81145	402.64149		0.39265	2.944875		0	0		
28				0.7562	375.22644		0.37	2.775					
28.5	0	0		0.70995	352.27719		0.3505	2.62875		0	0		
29				0.6637	329.32794		0.331	2.4825					
29.5	0	0		0.62475	310.00095		0.31415	2.356125		0	0		
30				0.5858	290.67396		0.2973	2.22975					
30.5	0	0		0.5527	274.24974		0.28265	2.119875		0	0		
31				0.5196	257.82552		0.268	2.01					
31.5	0	0		0.49135	243.80787		0.25525	1.914375		0	0		
32				0.4631	229.79022		0.2425	1.81875					
32.5	0	0		0.43885	217.75737		0.2313	1.73475		0	0		
33				0.4146	205.72452		0.2201	1.65075					
33.5	0	0		0.39365	195.32913		0.21025	1.576875		0	0		
34				0.3727	184.93374		0.2004	1.503					
34.5	0	0		0.3545	175.9029		0.1917	1.43775		0	0		
35				0.3363	166.87206		0.183	1.3725					
35.5	0	0		0.32045	159.00729		0.17525	1.314375		0	0		
36				0.3046	151.14252		0.1675	1.25625					
36.5	0	0		0.2907	144.24534		0.1606	1.2045		0	0		
37				0.2768	137.34816		0.1537	1.15275					
37.5	0	0		0.26455	131.26971		0.1476	1.107		0	0		
38				0.2523	125.19126		0.1415	1.06125					
38.5	0	0		0.2415	119.8323		0.136	1.02		0	0		
39				0.2307	114.47334		0.1305	0.97875					
39.5	0	0		0.2211	109.70982		0.12555	0.941625		0	0		
40				0.2115	104.9463		0.1206	0.9045					
40.5	0	0		0.20295	100.70379		0.11615	0.871125		0	0		
41				0.1944	96.46128		0.1117	0.83775					
41.5	0	0		0.18675	92.66535		0.10765	0.807375		0	0		
42				0.1791	88.86942		0.1036	0.777					
42.5	0	0		0.1723	85.49526		0.09995	0.749625		0	0		
43				0.1655	82.1211		0.0963	0.72225					
43.5	0	0		0.15935	79.06947		0.093	0.6975		0	0		
44				0.1532	76.01784		0.0897	0.67275					
44.5	0	0		0.14765	73.26393		0.0867	0.65025		0	0		
45				0.1421	70.51002		0.0837	0.62775					
45.5	0	0		0.13705	68.00421		0.08095	0.607125		0	0		
46				0.132	65.4984		0.0782	0.5865					
46.5	0	0		0.12745	63.24069		0.0757	0.56775		0	0		
47				0.1229	60.98298		0.0732	0.549					
47.5	0	0		0.1188	58.94856		0.0709	0.53175		0	0		
48				0.1147	56.91414		0.0686	0.5145					
48.5	0	0		0.1109	55.02858		0.06645	0.498375		0	0		
49				0.1071	53.14302		0.0643	0.48225					
49.5	0	0		0.1037	51.45594		0.0624	0.468		0	0		

50				0.1003	49.76886		0.0605	0.45375					
50.5	0	0		0.09715	48.20583		0.0587	0.44025		0	0		
51				0.094	46.6428		0.0569	0.42675					
51.5	0	0		0.0911	45.20382		0.05525	0.414375		0	0		
52				0.0882	43.76484		0.0536	0.402					
52.5	0	0		0.08555	42.44991		0.05205	0.390375		0	0		
53				0.0829	41.13498		0.0505	0.37875					
53.5	0	0		0.08045	39.91929		0.0491	0.36825		0	0		
54				0.078	38.7036		0.0477	0.35775					
54.5	0	0		0.07575	37.58715		0.0464	0.348		0	0		
55				0.0735	36.4707		0.0451	0.33825					
55.5	0	0		0.07145	35.45349		0.0439	0.32925		0	0		
56				0.0694	34.43628		0.0427	0.32025					
56.5	0	0		0.06745	33.46869		0.04155	0.311625		0	0		
57				0.0655	32.5011		0.0404	0.303					
57.5	0	0		0.06375	31.63275		0.03935	0.295125		0	0		
58				0.062	30.7644		0.0383	0.28725					
58.5	0	0		0.06035	29.94567		0.03735	0.280125		0	0		
59				0.0587	29.12694		0.0364	0.273					
59.5	0	0		0.05715	28.35783		0.0355	0.26625		0	0		
60				0.0556	27.58872		0.0346	0.2595					
60.5	0	0		0.05415	26.86923		0.03375	0.253125		0	0		
61				0.0527	26.14974		0.0329	0.24675					
61.5	0	0		0.0514	25.50468		0.0321	0.24075		0	0		
62				0.0501	24.85962		0.0313	0.23475					
62.5	0	0		0.04885	24.23937		0.03055	0.229125		0	0		
63				0.0476	23.61912		0.0298	0.2235					
63.5	0	0		0.04645	23.04849		0.0291	0.21825		0	0		
64				0.0453	22.47786		0.0284	0.213					
64.5	0	0		0.0442	21.93204		0.02775	0.208125		0	0		
65				0.0431	21.38622		0.0271	0.20325					
65.5	0	0		0.0421	20.89002		0.0265	0.19875		0	0		
66				0.0411	20.39382		0.0259	0.19425					
66.5	0	0		0.04015	19.92243		0.0253	0.18975		0	0		
67				0.0392	19.45104		0.0247	0.18525					
67.5	0	0		0.0383	19.00446		0.02415	0.181125		0	0		
68				0.0374	18.55788		0.0236	0.177					
68.5	0	0		0.03655	18.13611		0.0231	0.17325		0	0		
69				0.0357	17.71434		0.0226	0.1695					
69.5	0	0		0.0349	17.31738		0.0221	0.16575		0	0		
70				0.0341	16.92042		0.0216	0.162					
70.5	0	0		0.03335	16.54827		0.02115	0.158625		0	0		
71				0.0326	16.17612		0.0207	0.15525					
71.5	0	0		0.0319	15.82878		0.02025	0.151875		0	0		
72				0.0312	15.48144		0.0198	0.1485					
72.5	0	0		0.03055	15.15891		0.0194	0.1455		0	0		
73				0.0299	14.83638		0.019	0.1425					
73.5	0	0		0.0293	14.53866		0.01865	0.139875		0	0		
74				0.0287	14.24094		0.0183	0.13725					
74.5	0	0		0.0281	13.94322		0.0179	0.13425		0	0		
75				0.0275	13.6455		0.0175	0.13125					
75.5	0	0		0.02695	13.37259		0.01715	0.128625		0	0		
76				0.0264	13.09968		0.0168	0.126					
76.5	0	0		0.02585	12.82677		0.0165	0.12375		0	0		
77				0.0253	12.55386		0.0162	0.1215					
77.5	0	0		0.0248	12.30576		0.0159	0.11925		0	0		
78				0.0243	12.05766		0.0156	0.117					
78.5	0	0		0.02385	11.83437		0.0153	0.11475		0	0		
79				0.0234	11.61108		0.015	0.1125					
79.5	0	0		0.02295	11.38779		0.0147	0.11025		0	0		
80				0.0225	11.1645		0.0144	0.108					

0	61.125	55.1555	0.9023394683	0	0
0.5	61.09475	55.067	0.9013376763	0.01372	0.01854952938
1	61.0645	54.9785	0.9003348918	0.02744	0.03705778415
1.5	60.97275	54.7075	0.8972450808	0.04018	0.05407696102
2	60.881	54.4365	0.8941459569	0.05292	0.07097730606
2.5	60.723	53.96875	0.8887694943	0.06517	0.08688166191
3	60.565	53.501	0.8833649798	0.07742	0.1025851751
3.5	60.3335	52.8125	0.8753428858	0.08967	0.1177379949
4	60.102	52.124	0.867258993	0.10192	0.1325865549
4.5	59.78575	51.182	0.8560902891	0.11564	0.1484974215
5	59.4695	50.24	0.8448027981	0.12936	0.1639255349
5.5	59.05225	49.0085	0.829917573	0.14357	0.1787268989
6	58.635	47.777	0.8148204997	0.15778	0.1928435677
6.5	58.09625	46.2245	0.7956537642	0.17052	0.2035123198
7	57.5575	44.672	0.7761282196	0.18326	0.2133498863
7.5	56.86975	42.79125	0.7524430827	0.19747	0.2228774033
8	56.182	40.9105	0.7281780641	0.21168	0.2312110989
8.5	55.31125	38.74375	0.7004678072	0.22687	0.2383726971
9	54.4405	36.577	0.6718711254	0.24206	0.2439496869
9.5	53.34725	34.23425	0.6417247375	0.2597	0.2499838715
10	52.254	31.8915	0.6103169135	0.27734	0.2538979392
10.5	50.8955	29.53675	0.5803410911	0.29057	0.2529445662
11	49.537	27.182	0.5487211579	0.3038	0.2500522317
11.5	47.87775	24.97875	0.521719379	0.32242	0.2523191433
12	46.2185	22.7755	0.4927788656	0.34104	0.2520859565
12.5	44.24725	20.8325	0.4708202205	0.35868	0.253310695
13	42.276	18.8895	0.4468137951	0.37632	0.252217451
13.5	40.032	17.247	0.4308303357	0.39445	0.2549115389
14	37.788	15.6045	0.4129485551	0.41258	0.2555614723
14.5	35.379	14.25175	0.4028307753	0.43071	0.2602548649
15	32.97	12.899	0.3912344556	0.44884	0.2634025096
15.5	30.55825	11.8	0.386147767	0.46942	0.2718982272
16	28.1465	10.701	0.3801893664	0.49	0.2794391843
16.5	25.89375	9.81375	0.3790007241	0.51352	0.2919366778
17	23.641	8.9265	0.3775855505	0.53704	0.3041678161
17.5	21.65525	8.21025	0.37913439	0.56007	0.3185126967
18	19.6695	7.494	0.3809959582	0.5831	0.3332381148
18.5	17.9895	6.9145	0.3843631007	0.60613	0.3494610093



	19	16.3095	6.335	0.3884239247	0.62916	0.3665711947										
	19.5	14.92375	5.86375	0.3929139794	0.65219	0.3843818523										
	20	13.538	5.3925	0.3983232383	0.67522	0.4034337254										
	20.5	12.41	5.007	0.4034649476	0.70511	0.4267307538										
	21	11.282	4.6215	0.4096348165	0.735	0.4516223852										
	21.5	10.36925	4.304	0.4150734142	0.76587	0.4768384136										
	22	9.4565	3.9865	0.4215618886	0.79674	0.5038128287										
	22.5	8.7175	3.7235	0.4271293375	0.82859	0.5308726467										
	23	7.9785	3.4605	0.4337281444	0.86044	0.5597955668										
	23.5	7.37875	3.241	0.4392342877	0.8967	0.5907920786										
	24	6.779	3.0215	0.4457147072	0.93296	0.6237509898										
	24.5	6.28975	2.83725	0.4510910609	0.97951	0.6627723075										
	25	5.8005	2.653	0.4573743643	1.02606	0.7039403103										
	25.5	5.39875	2.49725	0.462560778	1.07065	0.7428610454										
	26	4.997	2.3415	0.4685811487	1.11524	0.7838706604										
	26.5	4.66525	2.209	0.4735008842	1.15885	0.8230747495										
	27	4.3335	2.0765	0.4791738779	1.20246	0.8642811319										
	27.5	4.05725	1.96325	0.4838868692	1.25146	0.908347592										
	28	3.781	1.85	0.489288548	1.30046	0.9544502777										
	28.5	3.54975	1.7525	0.4936967392	1.36367	1.009859149										
	29	3.3185	1.655	0.4987193009	1.42688	1.067418894										
	29.5	3.12375	1.57075	0.5028411365	1.48911	1.123178647										
	30	2.929	1.4865	0.5075110959	1.55134	1.180983395										
	30.5	2.7635	1.41325	0.5113985887	1.61651	1.240021399										
	31	2.598	1.34	0.5157813703	1.68168	1.301068822										
	31.5	2.45675	1.27625	0.5194871273	1.75567	1.368071947										
	32	2.3155	1.2125	0.5236450011	1.82966	1.437138469										
	32.5	2.19425	1.1565	0.5270593597	1.91688	1.515464318										
	33	2.073	1.1005	0.5308731307	2.0041	1.595884262										
	33.5	1.96825	1.05125	0.5341038994	2.08593	1.67115502										
	34	1.8635	1.002	0.5376978803	2.16776	1.748399936										
	34.5	1.7725	0.9585	0.5407616361	2.24175	1.818378597										
	35	1.6815	0.915	0.5441570027	2.31574	1.890189206										
	35.5	1.60225	0.87625	0.5468871899	2.38679	1.957957314										
	36	1.523	0.8375	0.5499015102	2.45784	2.027354892										
	36.5	1.4535	0.803	0.5524595803	2.52252	2.090385511										
	37	1.384	0.7685	0.5552745665	2.5872	2.154909538										
	37.5	1.32275	0.738	0.5579285579	2.62885	2.200065734										
	38	1.2615	0.7075	0.5608402695	2.6705	2.24658591										
	38.5	1.2075	0.68	0.5631469979	2.695	2.276521739										
	39	1.1535	0.6525	0.5656697009	2.7195	2.307508127										
	39.5	1.1055	0.62775	0.5678426052	2.73567	2.330144969										
	40	1.0575	0.603	0.570212766	2.75184	2.353701447										
	40.5	1.01475	0.58075	0.5723084504	2.76262	2.371606157										
	41	0.972	0.5585	0.5745884774	2.7734	2.390345525										
	41.5	0.93375	0.53825	0.5764390897	2.75723	2.384062727										
	42	0.8955	0.518	0.5784477945	2.74106	2.378340168										
	42.5	0.8615	0.49975	0.5800928613	2.71999	2.366770173										
	43	0.8275	0.4815	0.5818731118	2.69892	2.355643468										
	43.5	0.79675	0.465	0.5836209602	2.66854	2.336123816										
	44	0.766	0.4485	0.5855091384	2.63816	2.317000183										
	44.5	0.73825	0.4335	0.5871994582	2.59847	2.288730264										
	45	0.7105	0.4185	0.5890218156	2.55878	2.260765862										
	45.5	0.68525	0.40475	0.5906603429	2.51076	2.224509544										
	46	0.66	0.391	0.5924242424	2.46274	2.188480318										
	46.5	0.63725	0.3785	0.5939584151	2.40639	2.143943386										
	47	0.6145	0.366	0.5956061839	2.35004	2.099547535										
	47.5	0.594	0.3545	0.5968013468	2.28438	2.044981591										
	48	0.5735	0.343	0.5980819529	2.21872	1.990464586										
	48.5	0.5545	0.33225	0.5991884581	2.14669	1.929407807										
	49	0.5355	0.3215	0.6003734827	2.07466	1.868356275										
	49.5	0.5185	0.312	0.6017357763	1.99773	1.803158419										
	50	0.5015	0.3025	0.6031904287	1.9208	1.737912263										
	50.5	0.48575	0.2935	0.6042202779	1.86592	1.691140051										
	51	0.47	0.2845	0.6053191489	1.81104	1.644385787										
	51.5	0.4555	0.27625	0.6064763996	1.72578	1.569967261										
	52	0.441	0.268	0.6077097506	1.64052	1.49544										
	52.5	0.42775	0.26025	0.6084161309	1.57192	1.434572227										
	53	0.4145	0.2525	0.6091676719	1.50332	1.373660917										
	53.5	0.40225	0.2455	0.6103169671	1.42835	1.30761936										
	54	0.39	0.2385	0.6115384615	1.35338	1.241465885										
	54.5	0.37875	0.232	0.6125412541	1.28331	1.179120475										
	55	0.3675	0.2255	0.6136054422	1.21324	1.116676										
	55.5	0.35725	0.2195	0.6144156753	1.14905	1.058991498										
	56	0.347	0.2135	0.6152737752	1.08486	1.001228862										
	56.5	0.33725	0.20775	0.6160118606	1.01822	0.9408533951										
	57	0.3275	0.202	0.6167938931	0.95158	0.8803930992										
	57.5	0.31875	0.19675	0.617254902	0.89278	0.8266092471										
	58	0.31	0.1915	0.6177419355	0.83398	0.772776629										
	58.5	0.30175	0.18675	0.6188898094	0.78498	0.7287241839										
	59	0.2935	0.182	0.6201022147	0.73598	0.6845742419										
	59.5	0.28575	0.1775	0.6211723535	0.67277	0.6268591864										
	60	0.278	0.173	0.6223021583	0.60956	0.5689957554										
	60.5	0.27075	0.16875	0.6232686981	0.55517	0.5190301247										
	61	0.2635	0.1645	0.624288425	0.50078	0.4689467362										
	61.5	0.257	0.1605	0.6245136187	0.45325	0.4245911965										
	62	0.2505	0.1565	0.624750499	0.40572	0.3802106587										
	62.5	0.24425	0.15275	0.625383828	0.36407	0.3415252354										
	63	0.238	0.149	0.6260504202	0.32242	0.3027767647										
	63.5	0.23225	0.1455	0.6264800861	0.28518	0.2679893864										
	64	0.2265	0.142	0.6269315673	0.24794	0.2331621192										
	64.5	0.221	0.13875	0.6278280543	0.21609	0.2035010464										
	65	0.2155	0.1355	0.6287703016	0.18424	0.1737669606										
	65.5	0.2105	0.1325	0.6294536817	0.15925	0.1503607482										
	66	0.2055	0.1295	0.6301703163	0.13426	0.12691										
	66.5	0.20075	0.1265	0.6301369863	0.11809	0.1116193151										
	67	0.196	0.1235	0.6301020408	0.10192	0.09633										
	67.5	0.1915	0.12075	0.6305483029	0.0882	0.08342154047										
	68	0.187	0.118	0.6310160428	0.07448	0.0704971123										
	68.5	0.18275	0.1155	0.6320109439	0.06517	0.06178222982										
	69	0.1785	0.113	0.6330532213	0.05586	0.05304352941										
	69.5	0.1745	0.1105	0.6332378223	0.04949	0.04700840974										

	70	0.1705	0.108	0.633431085	0.04312	0.04097032258									
	70.5	0.16675	0.10575	0.6341829085	0.03871	0.03682383058									
	71	0.163	0.1035	0.6349693252	0.0343	0.03266917178									
	71.5	0.1595	0.10125	0.6347962382	0.03038	0.02892766458									
	72	0.156	0.099	0.6346153846	0.02646	0.02518788462									
	72.5	0.15275	0.097	0.6350245499	0.02401	0.02287040917									
	73	0.1495	0.095	0.635451505	0.02156	0.02055050167									
	73.5	0.1465	0.09325	0.6365187713	0.0196	0.01871365188									
	74	0.1435	0.0915	0.637630662	0.01764	0.01687170732									
	74.5	0.1405	0.0895	0.6370106762	0.01617	0.01545069395									
	75	0.1375	0.0875	0.6363636364	0.0147	0.01403181818									
	75.5	0.13475	0.08575	0.6363636364	0.01372	0.01309636364									
	76	0.132	0.084	0.6363636364	0.01274	0.01216090909									
	76.5	0.12925	0.0825	0.6382978723	0.01127	0.01079042553									
	77	0.1265	0.081	0.6403162055	0.0098	0.009412648221									
	77.5	0.124	0.0795	0.6411290323	0.00833	0.008010907258									
	78	0.1215	0.078	0.6419753086	0.00686	0.006605925926									
	78.5	0.11925	0.0765	0.641509434	0.0049	0.00471509434									
	79	0.117	0.075	0.641025641	0.00294	0.002826923077									
	79.5	0.11475	0.0735	0.6405228758	0.00147	0.001412352941									
	80	0.1125	0.072	0.64	0	0									

			TRUE	0.0 mm	0.000 N	2500 µH		0.0 mm	4216 µH	0.000 N			#DIV/0!
			TRUE	1.0 mm	0.027 N	2500 µH		1.0 mm	4215 µH	0.038 N			1.37
			TRUE	2.0 mm	0.053 N	2500 µH		2.0 mm	4215 µH	0.066 N			1.25
			TRUE	3.0 mm	0.077 N	2500 µH		3.0 mm	4221 µH	0.098 N			1.26
			TRUE	4.0 mm	0.102 N	2510 µH		4.0 mm	4223 µH	0.128 N			1.26
			TRUE	5.0 mm	0.129 N	2510 µH		5.0 mm	4227 µH	0.165 N			1.28
			TRUE	6.0 mm	0.158 N	2520 µH		6.0 mm	4232 µH	0.198 N			1.26
			TRUE	7.0 mm	0.183 N	2520 µH		7.0 mm	4237 µH	0.234 N			1.28
			TRUE	8.0 mm	0.212 N	2510 µH		8.0 mm	4247 µH	0.267 N			1.26
			TRUE	9.0 mm	0.242 N	2510 µH		9.0 mm	4253 µH	0.317 N			1.31
			TRUE	10.0 mm	0.277 N	2510 µH		10.0 mm	4266 µH	0.350 N			1.26
			TRUE	11.0 mm	0.304 N	2510 µH		11.0 mm	4271 µH	0.372 N			1.23
			TRUE	12.0 mm	0.341 N	2500 µH		12.0 mm	4281 µH	0.431 N			1.27
			TRUE	13.0 mm	0.376 N	2500 µH		13.0 mm	4294 µH	0.463 N			1.23
			TRUE	14.0 mm	0.413 N	2500 µH		14.0 mm	4302 µH	0.522 N			1.26
			TRUE	15.0 mm	0.449 N	2500 µH		15.0 mm	4317 µH	0.557 N			1.24
			TRUE	16.0 mm	0.490 N	2500 µH		16.0 mm	4333 µH	0.616 N			1.26
			TRUE	17.0 mm	0.537 N	2490 µH		17.0 mm	4342 µH	0.666 N			1.24
			TRUE	18.0 mm	0.583 N	2490 µH		18.0 mm	4357 µH	0.709 N			1.22
			TRUE	19.0 mm	0.629 N	2480 µH		19.0 mm	4373 µH	0.768 N			1.22
			TRUE	20.0 mm	0.675 N	2480 µH		20.0 mm	4387 µH	0.841 N			1.25
			TRUE	21.0 mm	0.735 N	2470 µH		21.0 mm	4393 µH	0.894 N			1.22
			TRUE	22.0 mm	0.797 N	2470 µH		22.0 mm	4413 µH	0.992 N			1.25
			TRUE	23.0 mm	0.860 N	2450 µH		23.0 mm	4424 µH	1.065 N			1.24
			TRUE	24.0 mm	0.933 N	2440 µH		24.0 mm	4437 µH	1.138 N			1.22
			TRUE	25.0 mm	1.026 N	2420 µH		25.0 mm	4446 µH	1.264 N			1.23
			TRUE	26.0 mm	1.115 N	2420 µH		26.0 mm	4458 µH	1.332 N			1.19
			TRUE	27.0 mm	1.202 N	2390 µH		27.0 mm	4456 µH	1.455 N			1.21
			TRUE	28.0 mm	1.300 N	2380 µH		28.0 mm	4457 µH	1.566 N			1.20
			TRUE	29.0 mm	1.427 N	2340 µH		29.0 mm	4456 µH	1.674 N			1.17
			TRUE	30.0 mm	1.551 N	2320 µH		30.0 mm	4441 µH	1.825 N			1.18
			TRUE	31.0 mm	1.682 N	2290 µH		31.0 mm	4426 µH	1.994 N			1.19
			TRUE	32.0 mm	1.830 N	2250 µH		32.0 mm	4398 µH	2.148 N			1.17
			TRUE	33.0 mm	2.004 N	2220 µH		33.0 mm	4360 µH	2.332 N			1.16
			TRUE	34.0 mm	2.168 N	2180 µH		34.0 mm	4307 µH	2.525 N			1.16
			TRUE	35.0 mm	2.316 N	2120 µH		35.0 mm	4248 µH	2.727 N			1.18
			TRUE	36.0 mm	2.458 N	2060 µH		36.0 mm	4150 µH	2.830 N			1.15
			TRUE	37.0 mm	2.587 N	1990 µH		37.0 mm	4035 µH	2.929 N			1.13
			TRUE	38.0 mm	2.671 N	1957 µH		38.0 mm	3905 µH	3.014 N			1.13
			TRUE	39.0 mm	2.720 N	1898 µH		39.0 mm	3756 µH	3.059 N			1.12
			TRUE	40.0 mm	2.752 N	1816 µH		40.0 mm	3570 µH	3.027 N			1.10
			TRUE	41.0 mm	2.773 N	1749 µH		41.0 mm	3372 µH	2.979 N			1.07
			TRUE	42.0 mm	2.741 N	1682 µH		42.0 mm	3154 µH	2.857 N			1.04
			TRUE	43.0 mm	2.699 N	1604 µH		43.0 mm	2949 µH	2.794 N			1.04
			TRUE	44.0 mm	2.638 N	1520 µH		44.0 mm	2732 µH	2.663 N			1.01
			TRUE	45.0 mm	2.559 N	1442 µH		45.0 mm	2532 µH	2.536 N			0.99
			TRUE	46.0 mm	2.463 N	1370 µH		46.0 mm	2328 µH	2.417 N			0.98
			TRUE	47.0 mm	2.350 N	1305 µH		47.0 mm	2143 µH	2.267 N			0.96
			TRUE	48.0 mm	2.219 N	1242 µH		48.0 mm	1960 µH	2.115 N			0.95
			TRUE	49.0 mm	2.075 N	1172 µH		49.0 mm	1791 µH	1.987 N			0.96
			TRUE	50.0 mm	1.921 N	1106 µH		50.0 mm	1643 µH	1.844 N			0.96
			TRUE	51.0 mm	1.811 N	1056 µH		51.0 mm	1490 µH	1.685 N			0.93
			TRUE	52.0 mm	1.641 N	990 µH		52.0 mm	1362 µH	1.586 N			0.97
			TRUE	53.0 mm	1.503 N	927 µH		53.0 mm	1238 µH	1.444 N			0.96
			TRUE	54.0 mm	1.353 N	875 µH		54.0 mm	1125 µH	1.299 N			0.96
			TRUE	55.0 mm	1.213 N	834 µH		55.0 mm	1023 µH	1.158 N			0.95
			TRUE	56.0 mm	1.085 N	785 µH		56.0 mm	935 µH	1.036 N			0.96
			TRUE	57.0 mm	0.952 N	741 µH		57.0 mm	856 µH	0.910 N			0.96
			TRUE	58.0 mm	0.834 N	704 µH		58.0 mm	786 µH	0.780 N			0.93
			TRUE	59.0 mm	0.736 N	673 µH		59.0 mm	727 µH	0.672 N			0.91
			TRUE	60.0 mm	0.610 N	646 µH		60.0 mm	674 µH	0.558 N			0.92
			TRUE	61.0 mm	0.501 N	621 µH		61.0 mm	635 µH	0.461 N			0.92
			TRUE	62.0 mm	0.406 N	601 µH		62.0 mm	601 µH	0.366 N			0.90
			TRUE	63.0 mm	0.322 N	585 µH		63.0 mm	573 µH	0.281 N			0.87
			TRUE	64.0 mm	0.248 N	573 µH		64.0 mm	555 µH	0.210 N			0.85
			TRUE	65.0 mm	0.184 N	563 µH		65.0 mm	539 µH	0.151 N			0.82
			TRUE	66.0 mm	0.134 N	556 µH		66.0 mm	529 µH	0.107 N			0.79
			TRUE	67.0 mm	0.102 N	552 µH		67.0 mm	523 µH	0.075 N			0.74
			TRUE	68.0 mm	0.074 N	549 µH		68.0 mm	517 µH	0.054 N			0.72
			TRUE	69.0 mm	0.056 N	546 µH		69.0 mm	514 µH	0.039 N			0.69
			TRUE	70.0 mm	0.043 N	544 µH		70.0 mm	511 µH	0.028 N			0.65
			TRUE	71.0 mm	0.034 N	543 µH		71.0 mm	509 µH	0.021 N			0.61
			TRUE	72.0 mm	0.026 N	542 µH		72.0 mm	508 µH	0.016 N			0.59
			TRUE	73.0 mm	0.022 N	542 µH		73.0 mm	507 µH	0.012 N			0.56
			TRUE	74.0 mm	0.018 N	541 µH		74.0 mm	506 µH	0.009 N			0.52
			TRUE	75.0 mm	0.015 N	541 µH		75.0 mm	505 µH	0.007 N			0.49
			TRUE	76.0 mm	0.013 N	540 µH		76.0 mm	502 µH	0.006 N			0.45
			TRUE	77.0 mm	0.010 N	539 µH		77.0 mm	504 µH	0.004 N			0.46
			TRUE	78.0 mm	0.007 N	538 µH		78.0 mm	504 µH	0.004 N			0.55
			TRUE	79.0 mm	0.003 N	537 µH		79.0 mm	503 µH	0.003 N			1.11

			TRUE	80.0 mm	0.000 N	536 µH		80.0 mm	503 µH	0.003 N		#DIV/0!
								81.0 mm	503 µH	0.002 N		
								82.0 mm	503 µH	0.002 N		
								83.0 mm	503 µH	0.002 N		
								84.0 mm	503 µH	0.001 N		
								85.0 mm	503 µH	0.001 N		
								86.0 mm	503 µH	0.001 N		
								87.0 mm	503 µH	0.001 N		
								88.0 mm	502 µH	0.001 N		
								89.0 mm	503 µH	0.001 N		
								90.0 mm	502 µH	0.001 N		
								91.0 mm	502 µH	0.000 N		
								92.0 mm	502 µH	0.000 N		
								93.0 mm	502 µH	0.000 N		
								94.0 mm	502 µH	0.000 N		
								95.0 mm	501 µH	0.000 N		
								96.0 mm	502 µH	0.000 N		
								97.0 mm	502 µH	0.000 N		
								98.0 mm	502 µH	0.000 N		
								99.0 mm	502 µH	0.000 N		
								100.0 mm	502 µH	0.000 N		