

Initial magnetization of the iron sample

Here is the data recorded based on the instructions: “Starting from zero, gradually increase the variac voltage while recording the progression of the upper right corner of the hysteresis loop. To increase accuracy while measuring the corner of the loop, it is recommended that you adjust the scales of the oscilloscope to provide a clearer picture.”

You can assess uncertainty in the voltage values by viewing the adjustments to the cursor positions in the video.

X-Axis Voltage, V1 [V]	Y-Axis Voltage, V2 [V]
0.0036	0.004
0.0108	0.0184
0.0120	0.0240
0.0176	0.0472
0.0288	0.094
0.0420	0.130
0.0760	0.192
0.120	0.244
0.172	0.276
0.240	0.300
0.300	0.316
0.420	0.328
0.540	0.336
0.720	0.344