**THIS README CORRESPONDS WITH THE “PermativityTesting” DATA IN “LargeAmountPermativityTesting” FOLDER USING “ConsistentAmplitudeV1.py”**

This test is done using the ConsistentAmplitudeV1.py program that requires the following

1. First run the program without any beans ensuring the reflector is in place.
2. Once the program is ready for you to press enter, add the beans then press enter.
3. It will begin the reading process asking you to mix the beans up between each reading
4. Once you have finished all 5 readings, the program will output an average amplitude value.

**NOTES**

1. **I only did the fresnel lens 2 times for each type of bean simply because I kept losing beans in between tests because the beantube is not made for this lens.**
2. **I included the Calibration amplitude in each reading, but I do believe that this reading is over saturated because of the max gain that I have the sensor at.**