BRS-Testing

**Max Distance:**
With Luis's code, the max distance determined is 11ft. That is, this is the max distance where the sensor won't have noisy readings.

**Field of View:**
Testing with one sensor: The max field of view is approximately 30 degrees. However, with multiple sensors, the FOV might change. Also, the FOV extremely depends on the max distance. The FOV seems as though it gets smaller as the max distance gets smaller. Also, the accuracy of FOV depends on the object: i.e. a square object will give more accurate FOV measurements, while circular or curvy objects produce less accurate results.

**Accuracy:**
The accuracy solely depends on what the max distance is set at. Obviously, the bigger the max distance, the lower the accuracy and vice versa.

**Conclusion:**
A lot of the main focus of the sensors (FOV, accuracy,…) depend on the max distance. So even though, the max distance is 11 feet, this max distance has a high probability of reducing accuracy. A lower max distance may be needed (suggestion: 10ft).