Steady Hands

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We competed to see who could hold a laser the steadiest on a dot at both a medium and long distance. We used a high speed camera that recorded the area of any pixels of it's images that changed, as well the position of the center of the area. This data was recorded for all five participants in the competition, so we have ten different data sets.

We then found the averages of the x-positions, y-positions, the deviations of these values and the total deviation of the easured values. We then found the distance of each point in the first ten seconds of the competition from the average value and generated histograms of the distances.

datafile	x-avg	y-avg	x-dev	y-dev	T-dev
1 sec	—	—	—	—	—
201745135431.txt	497.375	577.75	3.5229	12.9118	13.3837
20174513521.txt	495.6667	587.3333	8.4113	11.0708	13.9037
201745135328.txt	491.375	572.4375	4.6961	13.2326	14.0412
201745135944.txt	506.125	574.1875	5.534	13.6144	14.6961
201745135111.txt	498.1875	589.8125	10.7833	13.9334	17.6187
10 sec	—	—	—	—	—
20174513577.txt	472.6667	579.5	16.2481	27.34502	31.8080
201745135246.txt	492.25	563.0	15.0665	29.8005	33.3927
201745135616.txt	474.8125	589.375	13.1799	30.6416	33.356
201745135851.txt	491.625	596.9375	24.9596	32.2462	40.7774
20174513581.txt	524.9375	598.5625	23.0689	34.5950	41.5811

../SteadyHandData/data-20174513521.txt

../SteadyHandData/data-20174513577.txt

../SteadyHandData/data-20174513581.txt

../SteadyHandData/data-201745135111.txt

../SteadyHandData/data-201745135246.txt

../SteadyHandData/data-201745135328.txt

../SteadyHandData/data-201745135431.txt

../SteadyHandData/data-201745135616.txt

../SteadyHandData/data-201745135851.txt

../SteadyHandData/data-201745135944.txt