Dear Data Sketch

I decided to create my data from a puzzle (<https://www.janestreet.com/puzzles/some-off-square-index/>). Essentially, I plotted the relationship between radius and distance to the edge of the square for each combination of a discrete square. My hope was that if I gradually increased the sample square size that I could tend towards an answer for a non-discrete square. However, I could not compute this do to the nature of the algorithm and its time complexity.

A graph of a line graph

Description automatically generated

The second graph was an attempt to identify a model for the distribution of the radii so that I could simply use statistics to solve the problem. I was ultimately unsuccessful as it was to unpredictable to model.

