Undulating counter-clockwise spiral in a square grid

Path of an eternal tiler who will tile the plane with square tiles by applying the following instruction:

a) Start on <0,0> heading towards <0,-1>
b) Turn to the left and check the field ahead
c) If the field is not yet covered with a tile then place a tile there, go there and repeat b)
d) if the field ahead is already covered with a tile then repeat b)
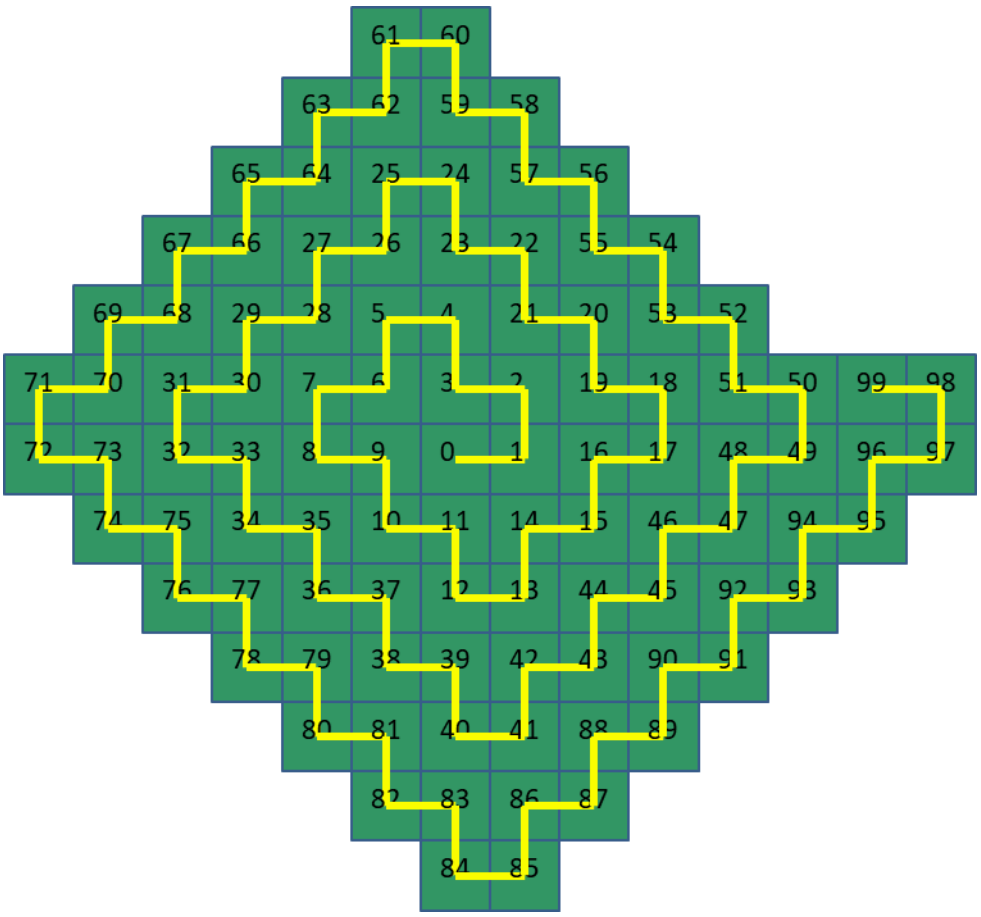
Diagram of path of the first 99 tiles