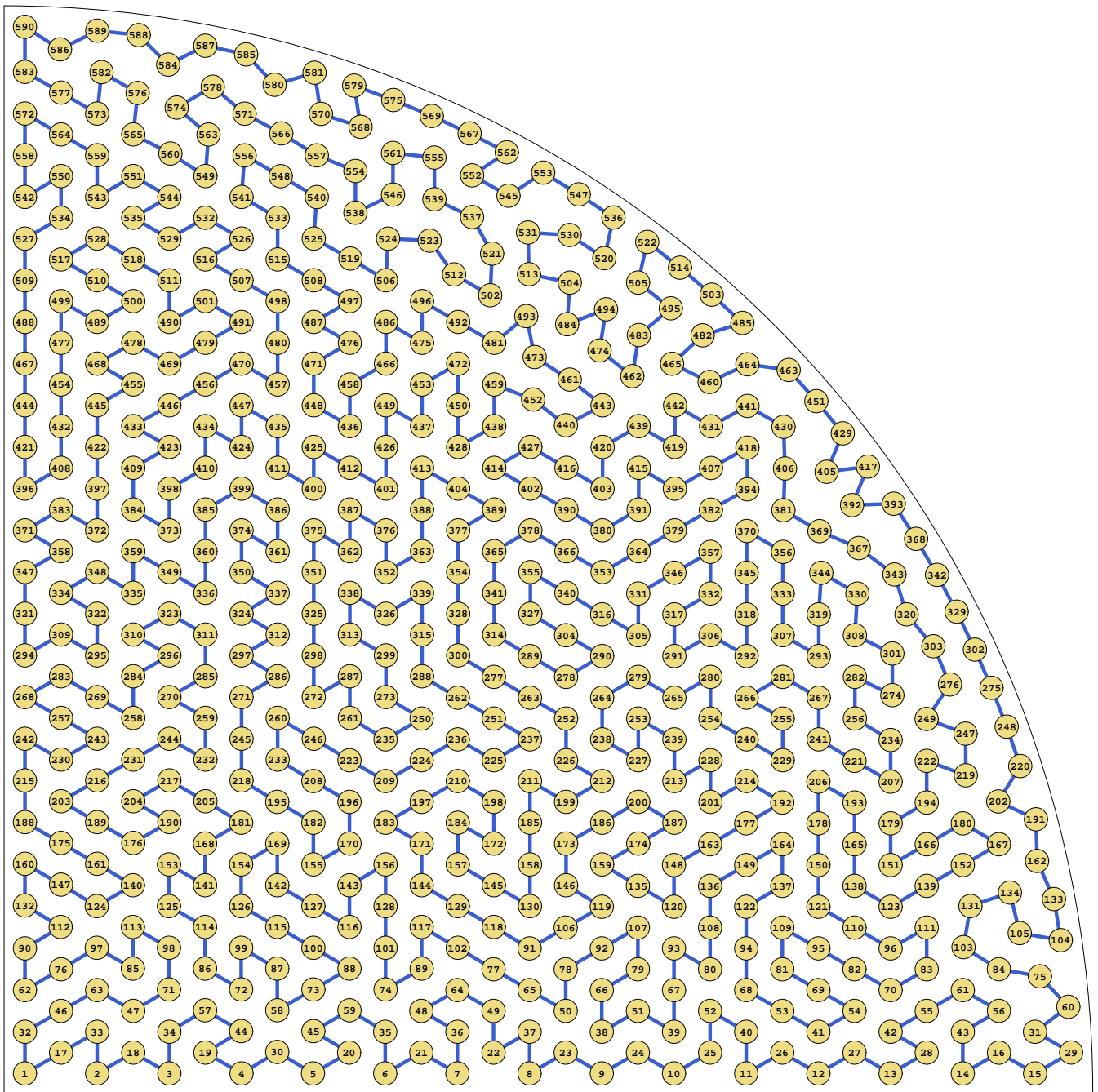# 590 circles in a circular quadrant

radius =   0.019144376088   **density = 0.864956840522**
ratio = 52.234661259362   **length =   22.597999**