427 circles in a circular quadrant
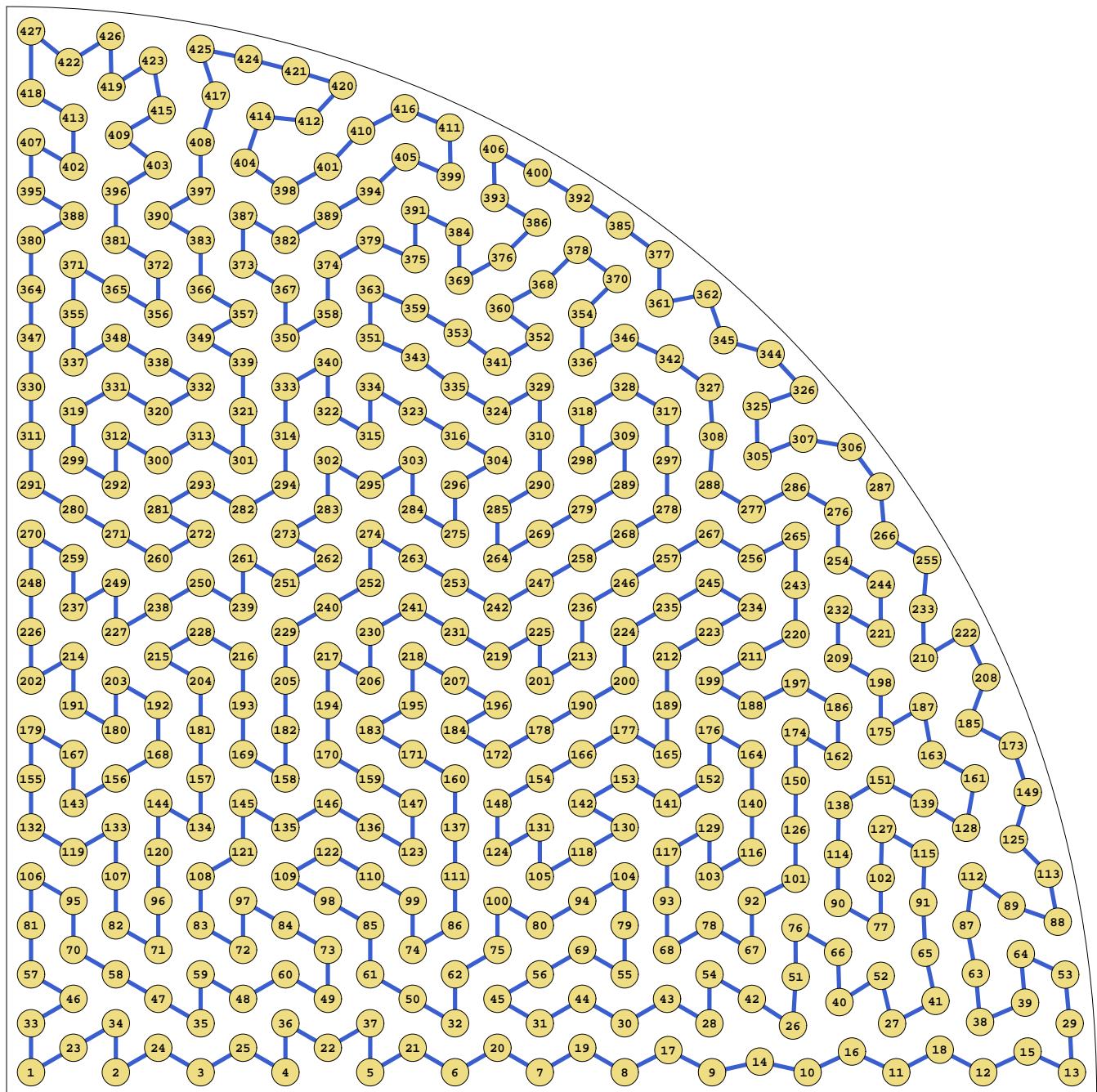
radius =   0.022455350544   density = 0.861246647816
ratio = 44.532816268095   length = 19.198967