427 circles in a circular quadrant
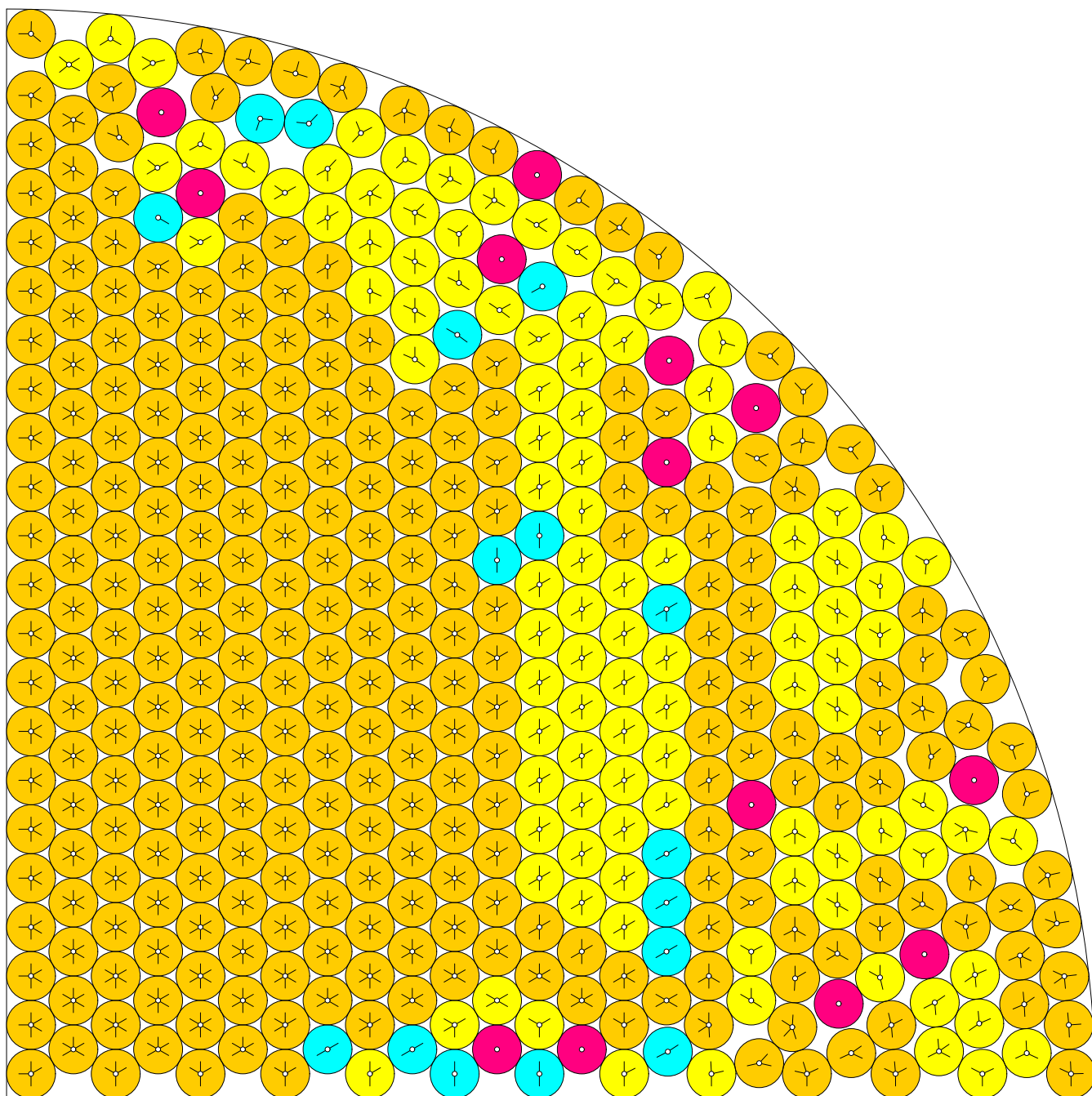
radius =   0.022455350544   density = 0.861246647816

ratio   = 44.532816268095   contacts = 974