113 circles in a circular quadrant
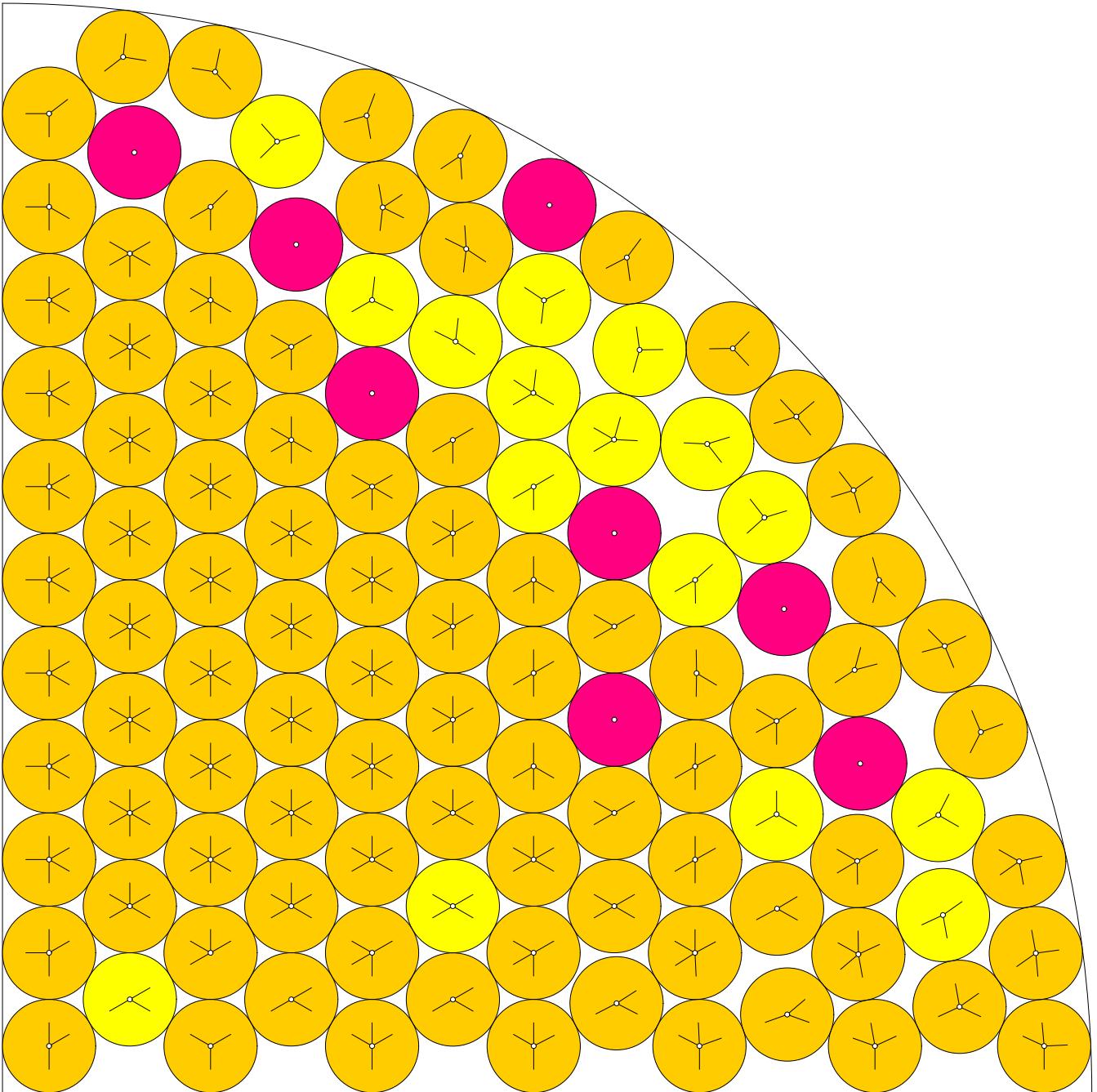
radius =   0.042796186715   density = 0.827844146003

ratio   = 23.366567836005   contacts = 237