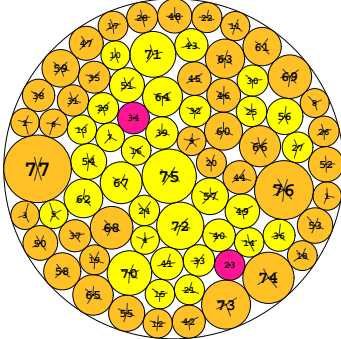


N = 77

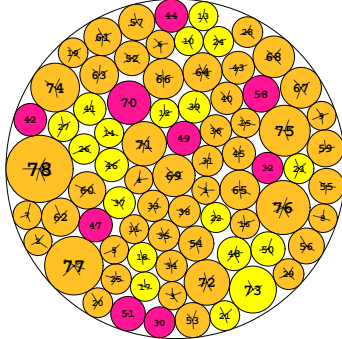
77 circles in a circle



radius = 0.19877267368 density = 0.850864201957  
 ratio = 5.030756349771 contacts = 150

N = 78

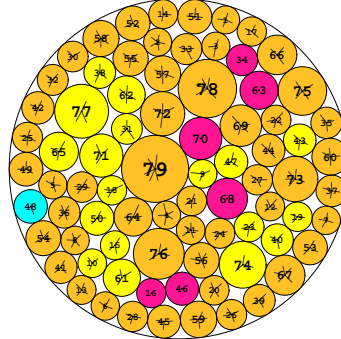
78 circles in a circle



radius = 0.197963295761 density = 0.850770190731  
 ratio = 5.051441461191 contacts = 138

N = 79

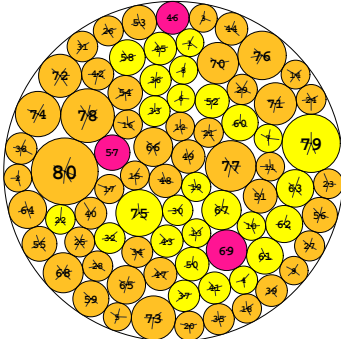
79 circles in a circle



radius = 0.197208065719 density = 0.851064467794  
 ratio = 5.070786513505 contacts = 145

N = 80

80 circles in a circle



radius = 0.196520501681 density = 0.851832723493  
 ratio = 5.088527616429 contacts = 154