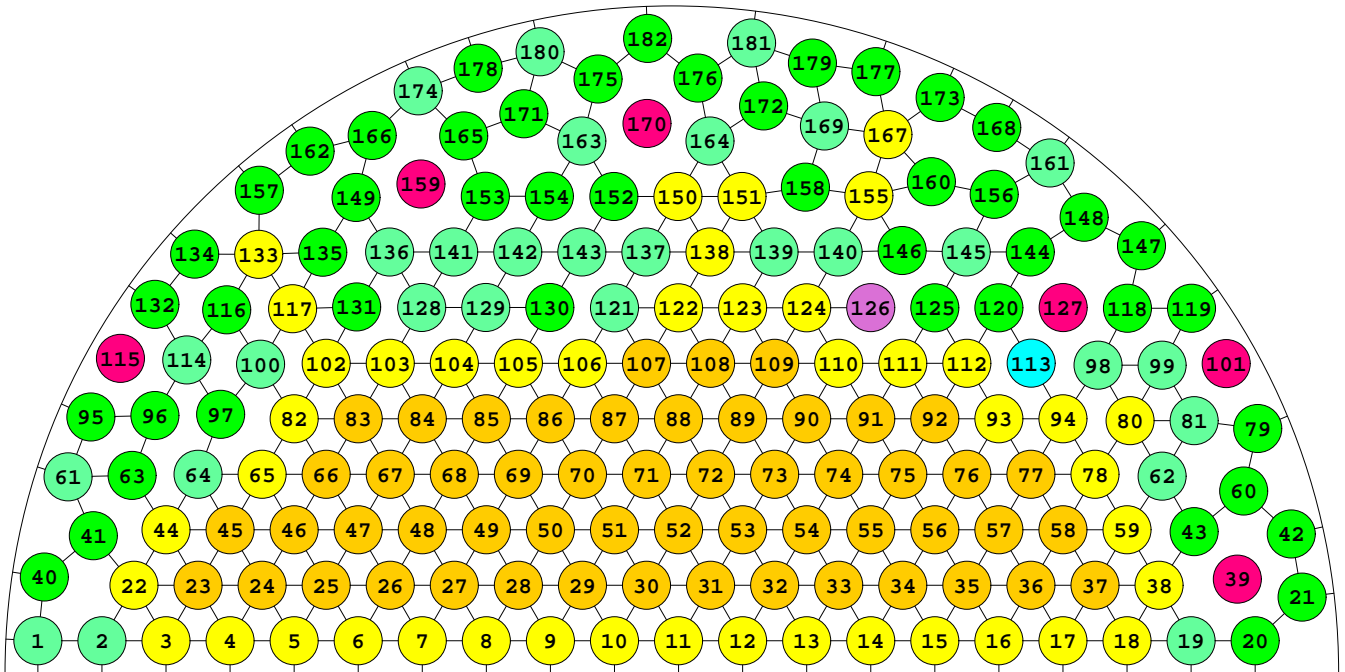


# 182 circles in a semicircle



radius = 0.048041101917  
ratio = 20.815509222311

density = 0.840092880312  
contacts = 423

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