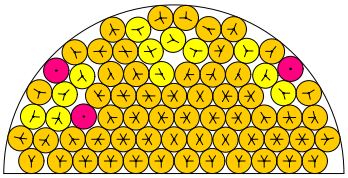
N = 73

73 circles in a semicircle



radius = 0.074391154696 density = 0.807970408972
ratio = 13.442458368615 contacts = 154

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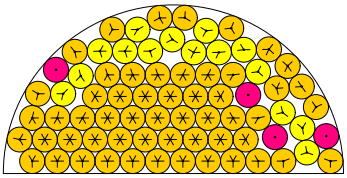
N = 74

74 circles in a semicircle



radius = 0.073814151887 density = 0.806382294784
ratio = 13.547537625707 contacts = 166

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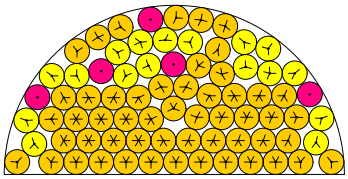
N = 75

75 circles in a semicircle



radius = 0.073302177704 density = 0.805981388420
ratio = 13.642159500901 contacts = 160

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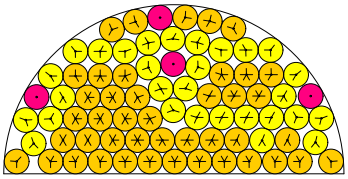
N = 76

76 circles in a semicircle



radius = 0.072942793330 density = 0.808738967006
ratio = 13.709373528947 contacts = 155

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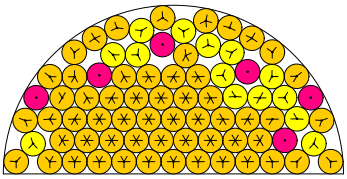
N = 77

77 circles in a semicircle



radius = 0.072651240856 density = 0.812843230871
ratio = 13.764389819403 contacts = 166

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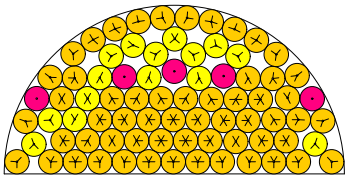
N = 78

78 circles in a semicircle



radius = 0.072020041392 density = 0.809154272499
ratio = 13.885023955350 contacts = 159

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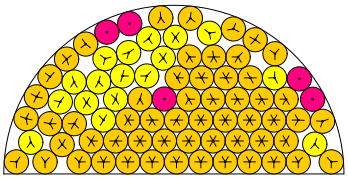
N = 79

79 circles in a semicircle



radius = 0.071569712384 density = 0.809311349445
ratio = 13.972390927618 contacts = 169

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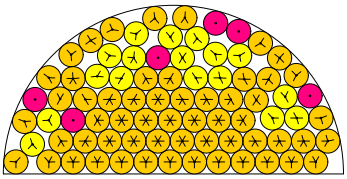
N = 80

80 circles in a semicircle



radius = 0.071321221935 density = 0.813874671727
ratio = 14.021072169966 contacts = 171

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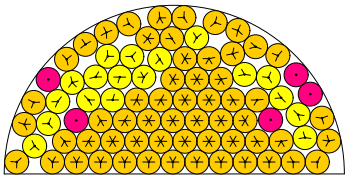
N = 81

81 circles in a semicircle



radius = 0.070782426790 density = 0.811644614644
ratio = 14.127800435135 contacts = 174

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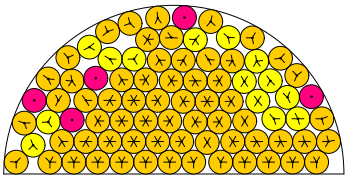
N = 82

82 circles in a semicircle



radius = 0.070417262107 density = 0.813208891633
ratio = 14.201063348374 contacts = 175

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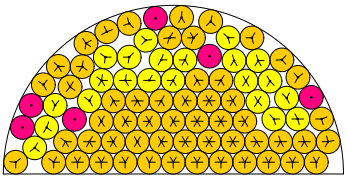
N = 83

83 circles in a semicircle



radius = 0.070065755200 density = 0.814928868589
ratio = 14.272307450996 contacts = 172

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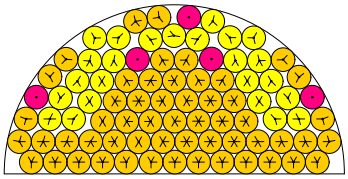
N = 84

84 circles in a semicircle



radius = 0.069810787636 density = 0.818755739828
ratio = 14.324433713732 contacts = 180

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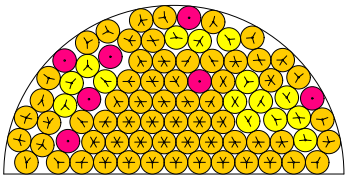
N = 85

85 circles in a semicircle



radius = 0.069236879711 density = 0.814936737053
ratio = 14.443169654356 contacts = 175

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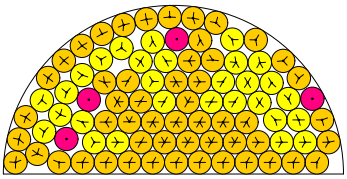
N = 86

86 circles in a semicircle



radius = 0.068889696391 density = 0.816275926232
ratio = 14.515958879100 contacts = 169

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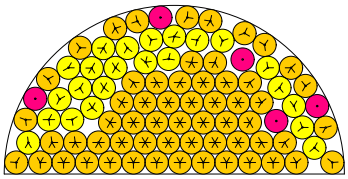
N = 87

87 circles in a semicircle



radius = 0.068438323750 density = 0.814981923435
ratio = 14.611696272059 contacts = 192

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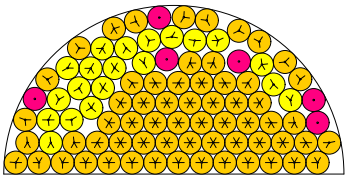
N = 88

88 circles in a semicircle



radius = 0.068154499745 density = 0.817526307053
ratio = 14.672545521386 contacts = 195

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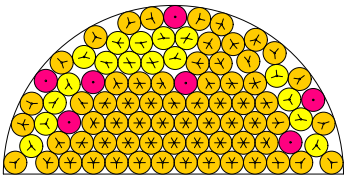
N = 89

89 circles in a semicircle



radius = 0.067866307456 density = 0.819838752404
ratio = 14.734852056800 contacts = 192

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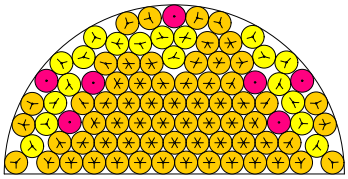
N = 90

90 circles in a semicircle



radius = 0.067565909065 density = 0.821727372210
ratio = 14.800363287231 contacts = 197

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