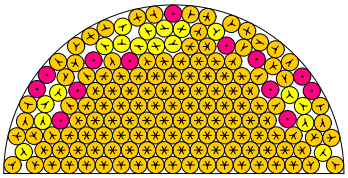
N = 163

163 circles in a semicircle



radius = 0.050695270125 density = 0.837823394652
ratio = 19.725706116860 contacts = 374

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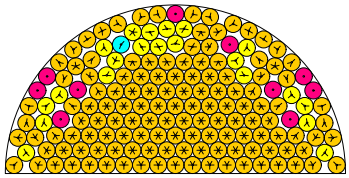
N = 164

164 circles in a semicircle



radius = 0.050483162710 density = 0.835924307254
ratio = 19.808584611428 contacts = 378

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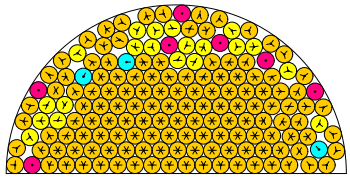
N = 165

165 circles in a semicircle



radius = 0.050373923838 density = 0.837385626949
ratio = 19.851540713971 contacts = 386

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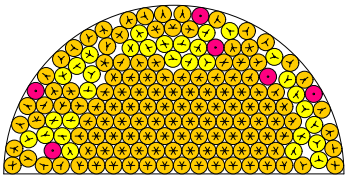
N = 166

166 circles in a semicircle



radius = 0.050230766889 density = 0.837679140836
ratio = 19.908117313956 contacts = 384

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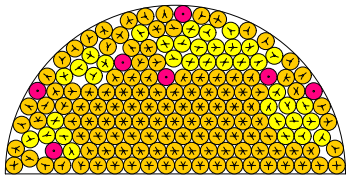
N = 167

167 circles in a semicircle



radius = 0.050155742221 density = 0.840210059089
ratio = 19.937894566531 contacts = 369

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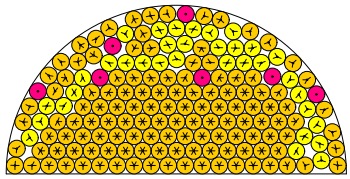
N = 168

168 circles in a semicircle



radius = 0.050038681955 density = 0.841300216452
ratio = 19.984539178979 contacts = 392

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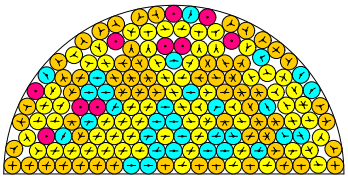
N = 169

169 circles in a semicircle



radius = 0.049938580982 density = 0.842925312230
ratio = 20.024597822655 contacts = 284

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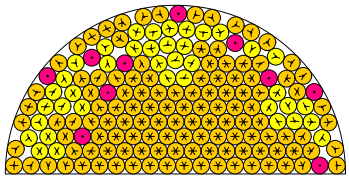
N = 170

170 circles in a semicircle



radius = 0.049821392726 density = 0.843938198869
ratio = 20.071699029022 contacts = 377

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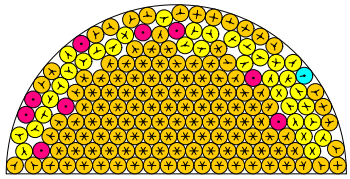
N = 171

171 circles in a semicircle



radius = 0.049648179120 density = 0.843010057965
ratio = 20.141725592351 contacts = 400

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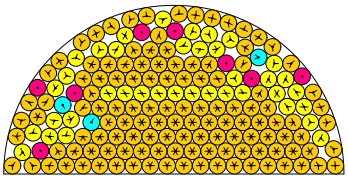
N = 172

172 circles in a semicircle



radius = 0.049460977154 density = 0.841557561791
ratio = 20.217958834252 contacts = 383

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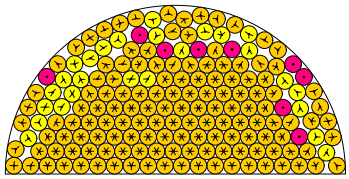
N = 173

173 circles in a semicircle



radius = 0.049314832884 density = 0.841455648861
ratio = 20.277874657981 contacts = 402

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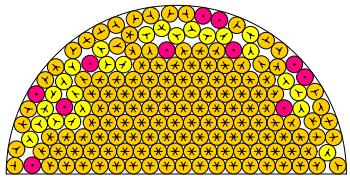
N = 174

174 circles in a semicircle



radius = 0.049103119141 density = 0.839068475679
ratio = 20.365305045466 contacts = 406

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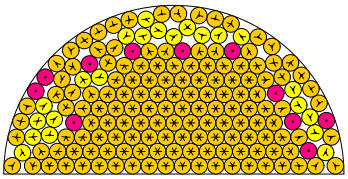
N = 175

175 circles in a semicircle



radius = 0.048926671216 density = 0.837836704693
ratio = 20.438749973156 contacts = 406

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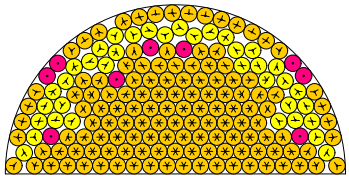
N = 176

176 circles in a semicircle



radius = 0.048739673766 density = 0.836195641199
ratio = 20.517166462611 contacts = 399

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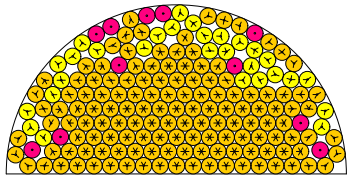
N = 177

177 circles in a semicircle



radius = 0.048568609844 density = 0.835054091205
ratio = 20.589430152838 contacts = 405

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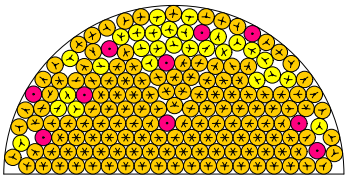
N = 178

178 circles in a semicircle



radius = 0.048449849314 density = 0.835670091873
ratio = 20.639899074305 contacts = 395

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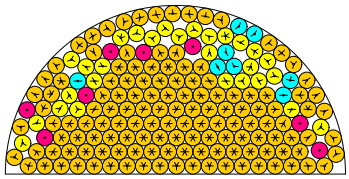
N = 179

179 circles in a semicircle



radius = 0.048367167313 density = 0.837499068866
ratio = 20.675182268155 contacts = 395

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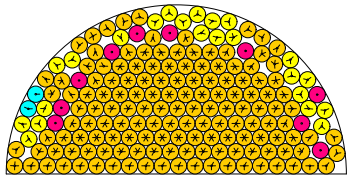
N = 180

180 circles in a semicircle



radius = 0.048219418339 density = 0.837040429796
ratio = 20.738533031688 contacts = 403

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