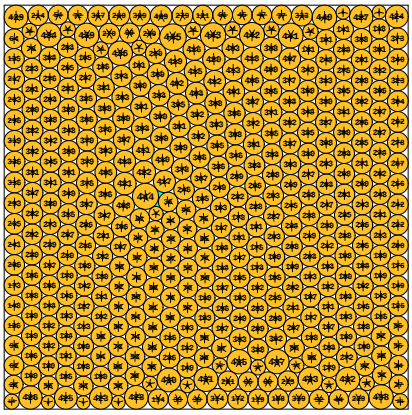
N = 445
445 circles in a square



sumradii = 11.224836627111 density = 0.895506670166
sumperim = 70.527728570955 contacts = 1335

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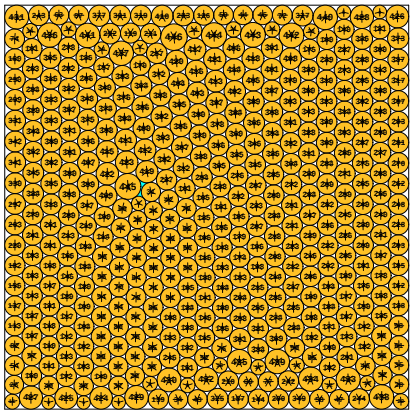
N = 446
446 circles in a square



sumradii = 11.237477248594 density = 0.895471491657
sumperim = 70.607151938131 contacts = 1338

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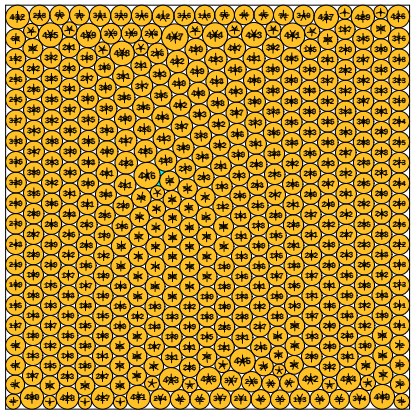
N = 447
447 circles in a square



sumradii = 11.250187451404 density = 0.895534518529
sumperim = 70.687012497678 contacts = 1341

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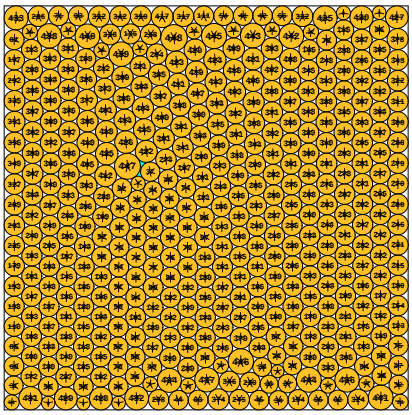
N = 448
448 circles in a square



sumradii = 11.262850550326 density = 0.895486303976
sumperim = 70.766577094768 contacts = 1344

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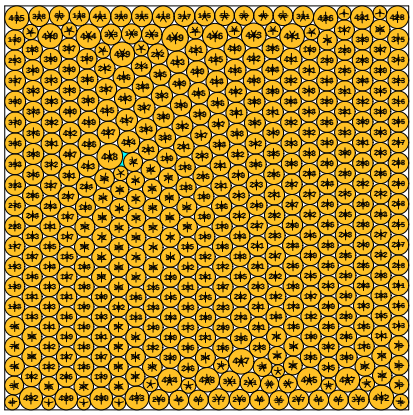
N = 449
449 circles in a square



sumradii = 11.275442943341 density = 0.895437100671
sumperim = 70.845697433542 contacts = 1347

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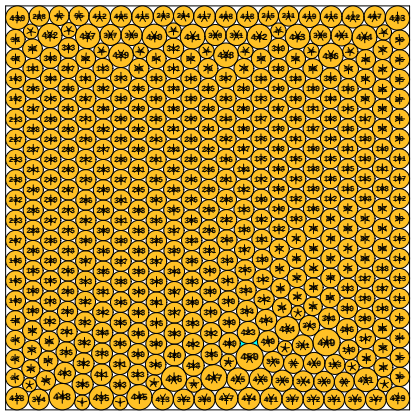
N = 450
450 circles in a square



sumradii = 11.287804414325 density = 0.895216791027
sumperim = 70.923366846404 contacts = 1350

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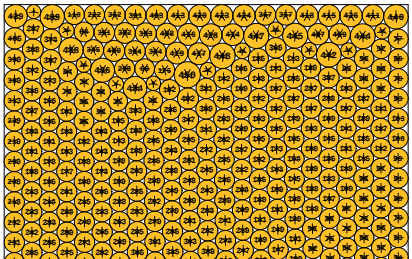
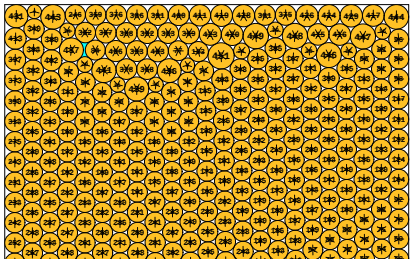
N = 451
451 circles in a square



N = 452
452 circles in a square



N = 453
453 circles in a square

