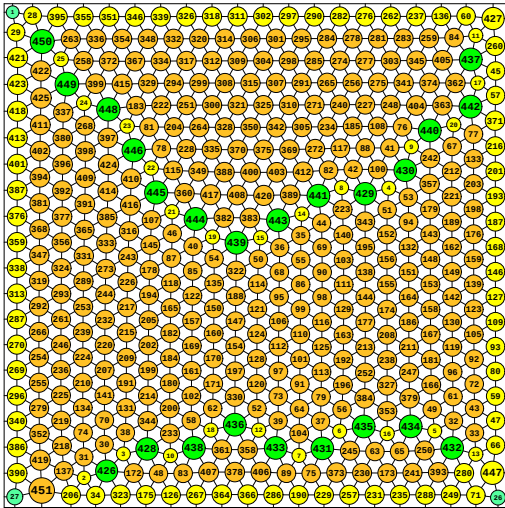


N = 451

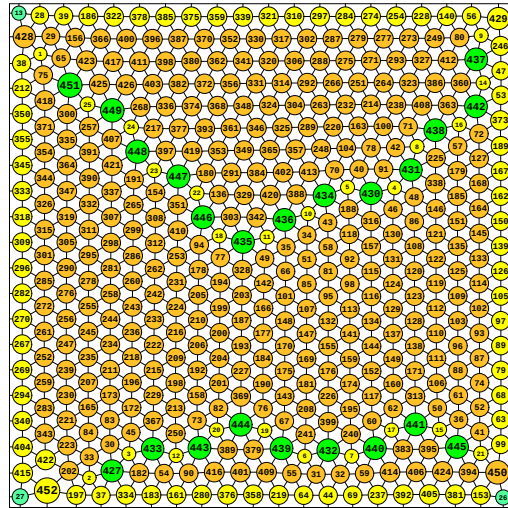
451 circles in a square



sumradii = 11.298856614393 density = 0.895376418082 © E. Sreor 29 SEP 2020
 sumperim = 70.992809867483 contacts = 1353

N = 452

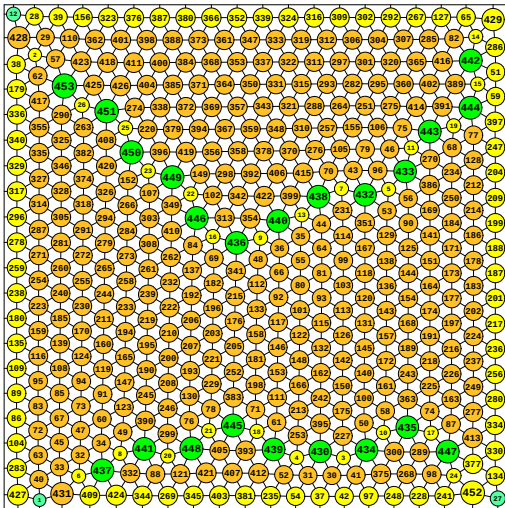
452 circles in a square



sumradii = 11.312054836108 density = 0.895373903619 © E. Sreor 29 SEP 2020
 sumperim = 71.075736740244 contacts = 1356

N = 453

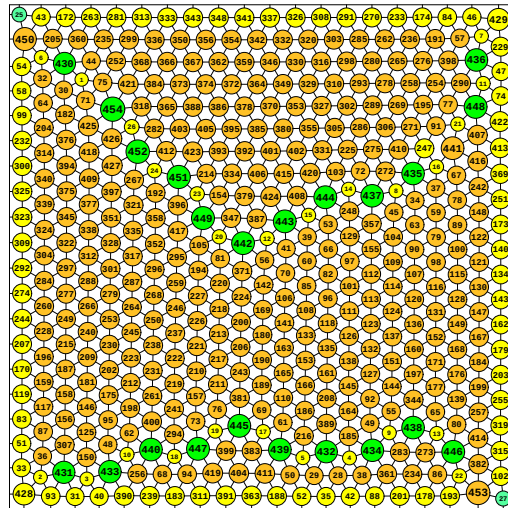
453 circles in a square



sumradii = 11.325229372792 density = 0.895436746250 © E. Sreor 29 SEP 2020
 sumperim = 71.158514795565 contacts = 1359

N = 454

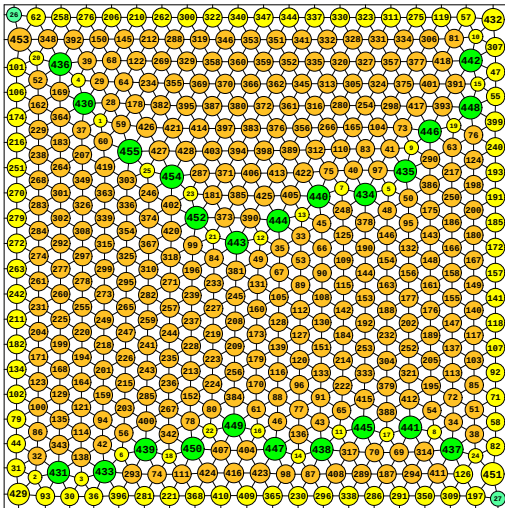
454 circles in a square



sumradii = 11.338237877360 density = 0.895437904981 © E. Sreor 29 SEP 2020
 sumperim = 71.240249640335 contacts = 1362

N = 455

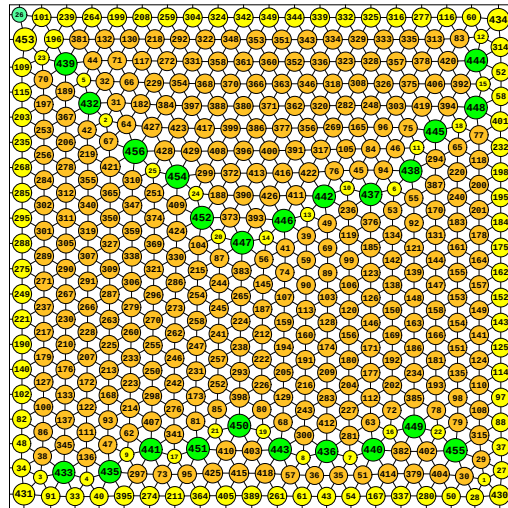
455 circles in a square



sumradii = 11.350906862541 density = 0.895378429863 © E. Sreor 29 SEP 2020
 sumperim = 71.319851221882 contacts = 1365

N = 456

456 circles in a square



sumradii = 11.363864959542 density = 0.895441887366 © E. Sreor 29 SEP 2020
 sumperim = 71.401269346567 contacts = 1368