# N = 457

**457 spheres in a sphere**

radius = 0.109380035794 density = 0.598040207566
ratio = 9.142436210957 contacts = 1329

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# N = 458

**458 spheres in a sphere**

radius = 0.109275478310 density = 0.597631701085
ratio = 9.151183920335 contacts = 1301

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# N = 459

**459 spheres in a sphere**

radius = 0.109237516999 density = 0.598312595192
ratio = 9.154364063473 contacts = 1264

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# N = 460

**460 spheres in a sphere**

radius = 0.109207887178 density = 0.599128317286
ratio = 9.156847786713 contacts = 1298

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# N = 461

**461 spheres in a sphere**

radius = 0.109189683761 density = 0.600130570126
ratio = 9.158374358779 contacts = 1310

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# N = 462

**462 spheres in a sphere**

radius = 0.109142505526 density = 0.600653115226
ratio = 9.162333182467 contacts = 1301

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# N = 463

**463 spheres in a sphere**

radius = 0.109115138491 density = 0.601500531829
ratio = 9.164631176071 contacts = 1310

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# N = 464

**464 spheres in a sphere**

radius = 0.109073240886 density = 0.602105553643
ratio = 9.168151527131 contacts = 1304

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# N = 465

**465 spheres in a sphere**

radius = 0.109044509415 density = 0.602926485097
ratio = 9.170567187331 contacts = 1301

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# N = 466

**466 spheres in a sphere**

radius = 0.109000034616 density = 0.603484088955
ratio = 9.174309013070 contacts = 1288

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# N = 467

**467 spheres in a sphere**

radius = 0.108864988571 density = 0.602534022274
ratio = 9.185689661330 contacts = 1339

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# N = 468

**468 spheres in a sphere**

radius = 0.108803052611 density = 0.602794240001
ratio = 9.190918600180 contacts = 1322

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