



NO. RODS PER CLUSTER	1	7	19	37	61	91	127
NO. RODS OUTER LAYER		6	12	18	24	30	36
TOTAL ROD AREAS	314.159	314.159	314.159	314.159	314.159	314.159	314.159
DIAM. OF SINGLE ROD	20.000	7.556	4.588	3.288	2.561	2.099	1.775
AREA OF SINGLE ROD	314.159	44.880	16.535	8.491	5.150	3.452	2.474
PERIM. OF SINGLE ROD	62.832	23.748	14.415	10.330	8.045	6.594	5.575
TOTAL PERINETER OF RODS IN BUNDLE	62.832	166.24	273.88	382.19	489.88	600.07	708.08
TOTAL PERINETER OF RODS IN OUTER LAYER	62.832	142.49	172.98	185.93	193.08*	197.83*	205.39*
MIN. DIAMETER OF HEXAGONAL BUNDLE		20.649	20.483	20.373	20.302	20.277	20.218
MAX. DIAMETER OF HEXAGONAL BUNDLE		22.668	22.940	23.016	23.046	23.089	23.095
TOTAL AREA OF RODS OUTER LAYER ONLY		269.279	198.416	152.834	123.604	103.569	89.053

\*NOTE THAT PERIMETERS OF OUTER LAYER RODS ALONE EXCEEDS THREE TIMES PERIMETER OF LARGE ROD.

Fig. 412.01 Closest Packing of Rods.