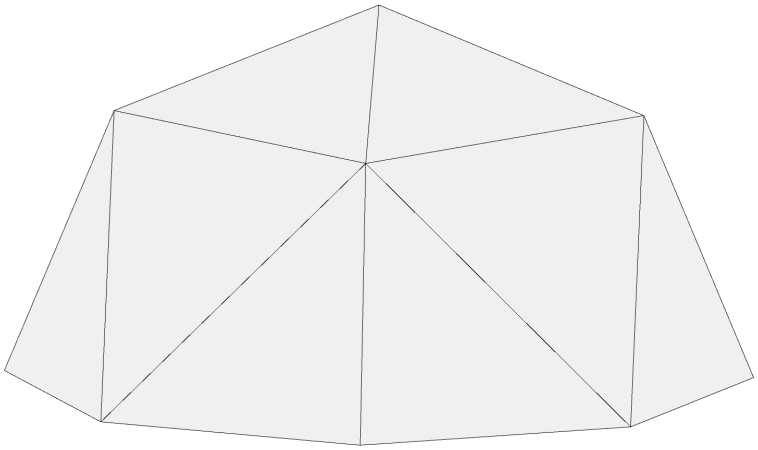
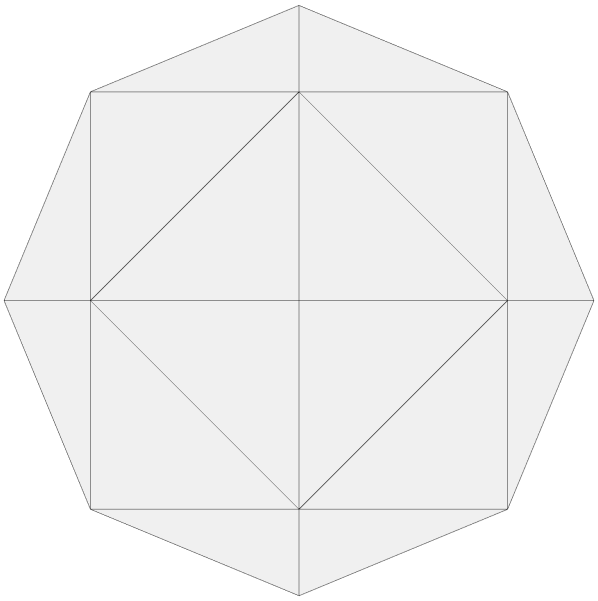
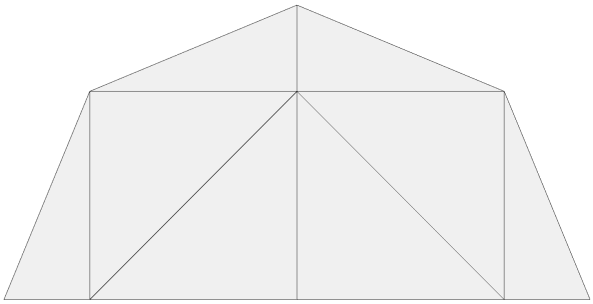
The following designs are in the public domain. scottbecker88@gmail.com (rev. C)





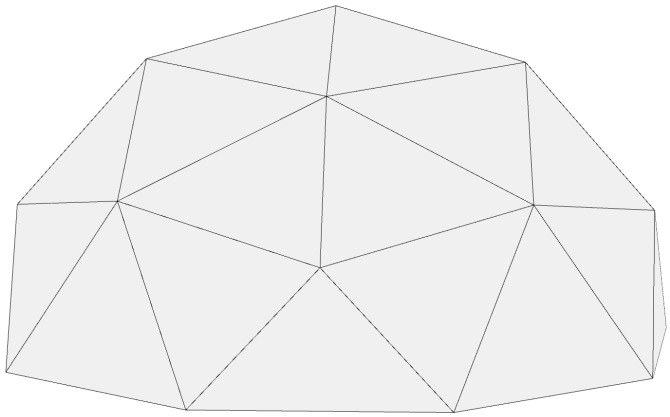
Radius Factors:

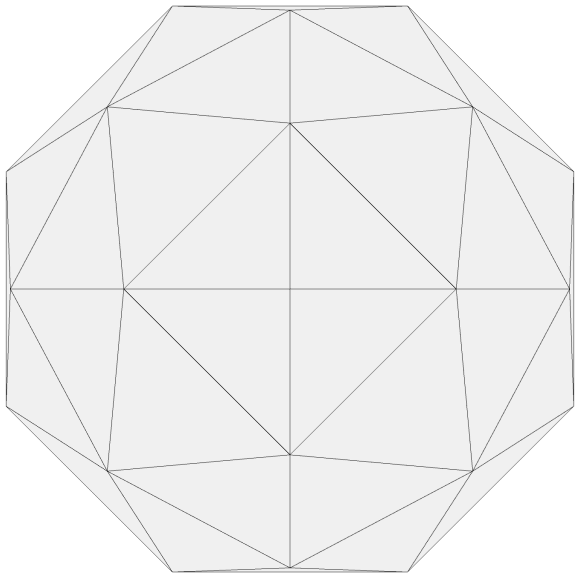
A:	0.7653669 --------||||	12	16
B:	1.0000000 \/\/\/----	12	12
A:	0.7653669 ||||	4	



28 struts
longest = 1.0000000

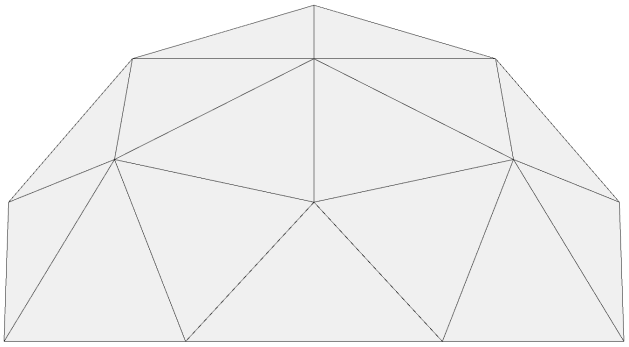
Octahedron Dome, 2 levels, 8 base (2F, standard)
(All others are customized or new designs.)





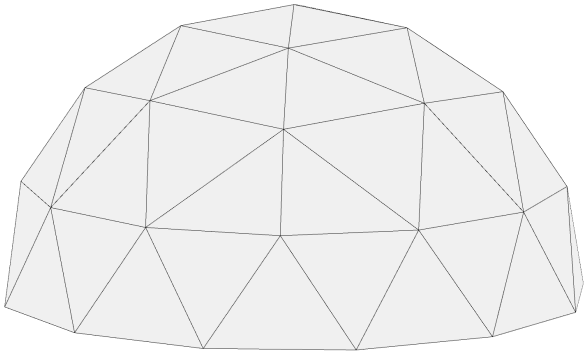
Radius Factors:

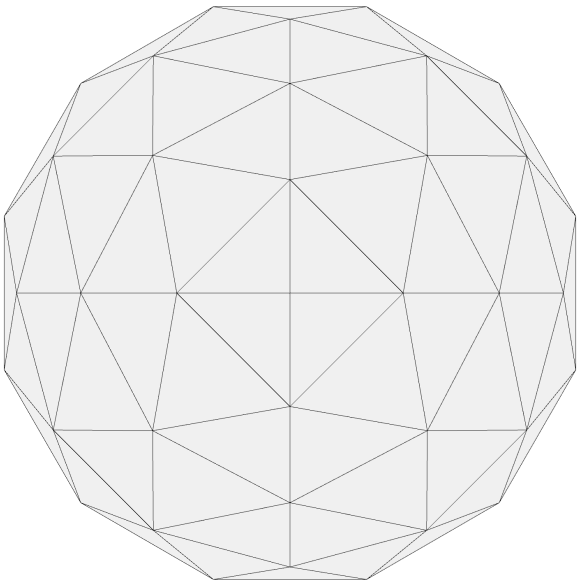
A:	0.7653669 --------	8	12
B:	0.5640985 \\\\///	8	16
C:	0.6680015 \\\\///	8	16
D:	0.6850301 \/\/\/	8	8
B:	0.5640985 ||||	4	
C:	0.6680015 \/\/\/	8	
A:	0.7653669 ----	4	
B:	0.5640985 ||||	4	



52 struts
longest = 0.7653669

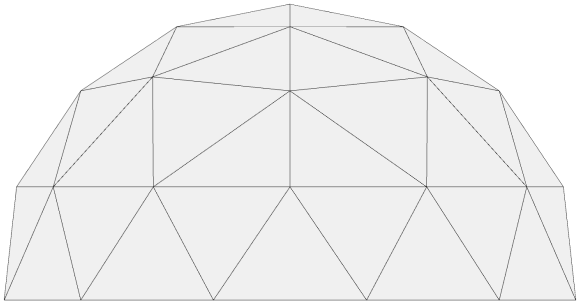
Octahedron Dome, 3 levels, 8 base (3F)





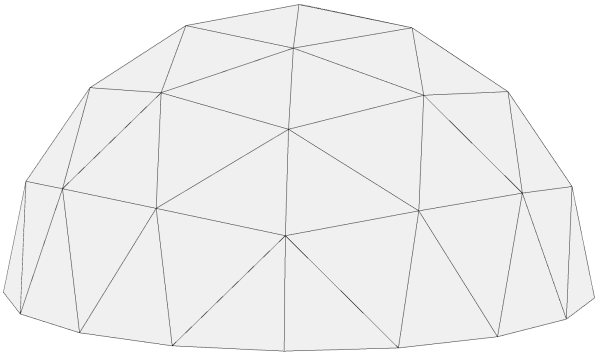
Radius Factors:

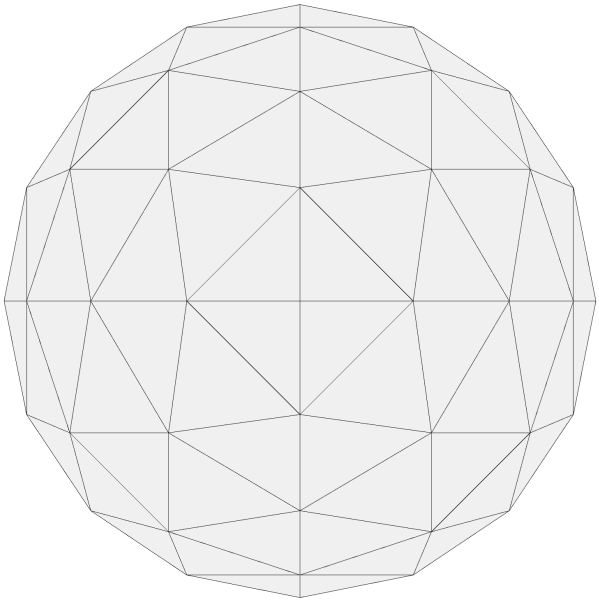
A:	0.5176381 ----------	12	12
B:	0.4638985 \\\\///\\\\/////////\\\\	24	24
C:	0.4782352 ----------	12	12
D:	0.5009165 \\\\///	8	16
E:	0.5720902 \\\\///	8	8
F:	0.3901807 ||||	4	12
G:	0.5260488 \/\/\/	8	8
D:	0.5009165 \/\/\/	8	
F:	0.3901807 ||||	4	
H:	0.5411961 ----	4	4
F:	0.3901807 ||||	4	



96 struts
longest = 0.5720902

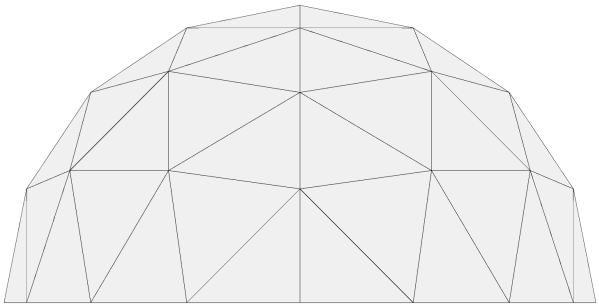
Octahedron Dome, 4 levels, 12 base





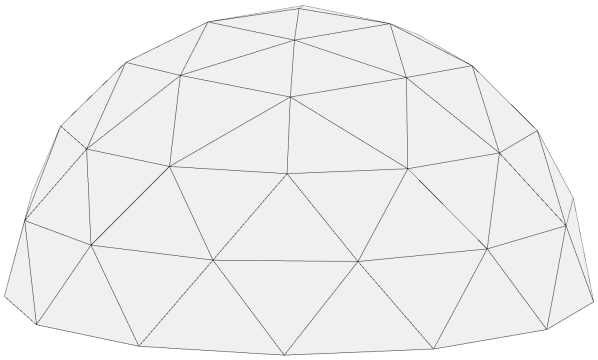
Radius Factors:

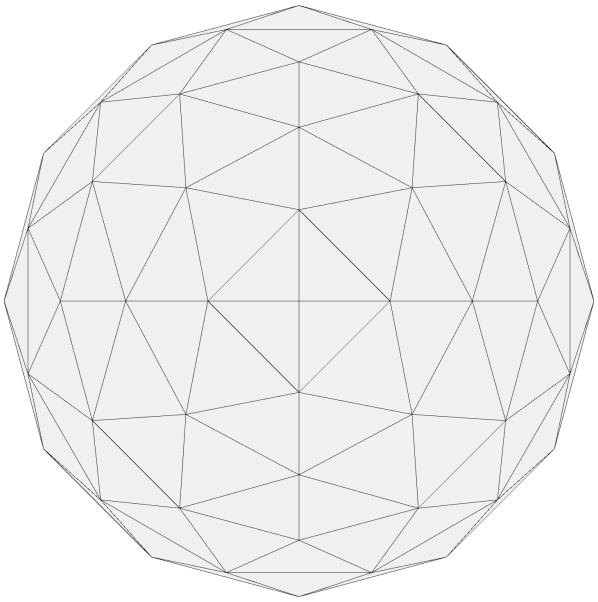
A:	0.3901807 ----------||||	20	32
B:	0.5411961 ////\\\\	8	12
C:	0.4717424 \\\\////	8	36
D:	0.5210511 ////\\\\	8	24
C:	0.4717424 \\\\////	8	
A:	0.3901807 ||||	4	
C:	0.4717424 ----	4	
D:	0.5210511 \\\\////	8	
C:	0.4717424 \\\\////	8	
D:	0.5210511 \/\/\/	8	
A:	0.3901807 ||||	4	
C:	0.4717424 \/\/\/	8	
B:	0.5411961 ----	4	
A:	0.3901807 ||||	4	



104 struts
longest = 0.5411961

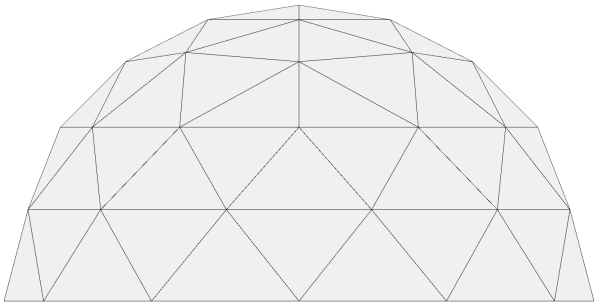
Octahedron Dome, 4 levels, 16 base (4F)





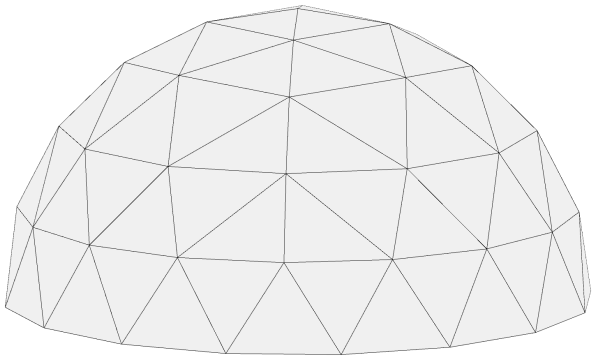
Radius Factors:

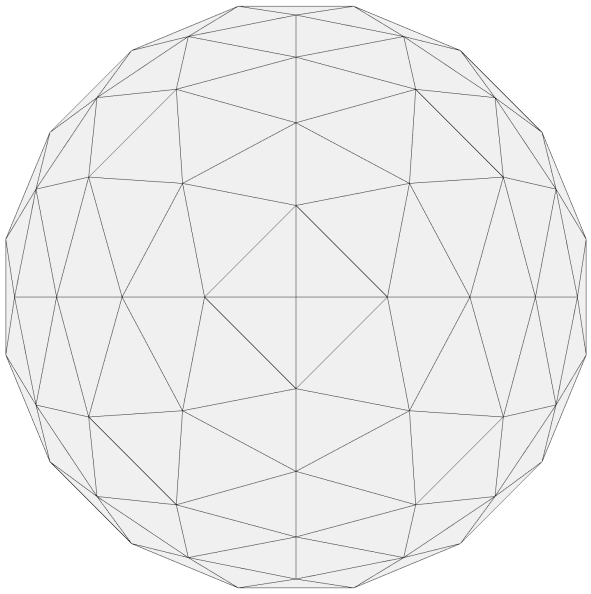
A:	0.5176381 ----------	12	12
B:	0.4033608 \/\/\/\/\/\/\/\/\/	24	24
C:	0.4923031 ----------	12	12
D:	0.3877135 ////\\\\\\\\/////\\\\///	24	12
E:	0.4187780 --------	8	12
F:	0.3128689 ||||	4	12
E:	0.4187780 ----	4	
G:	0.4746624 \\\\///	8	8
H:	0.4059698 \\\\///	8	16
I:	0.4355972 \/\/\/\/	8	8
F:	0.3128689 ||||	4	
H:	0.4059698 \/\/\/\/	8	
J:	0.4370160 ----	4	4
F:	0.3128689 ||||	4	



132 struts
longest = 0.5176381

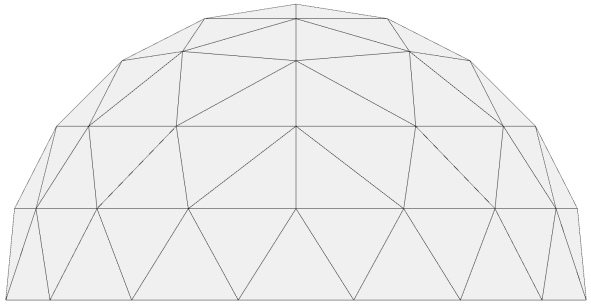
Octahedron Dome, 5 levels, 12 base





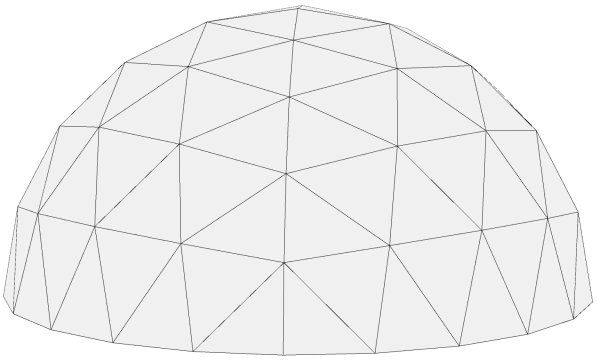
Radius Factors:

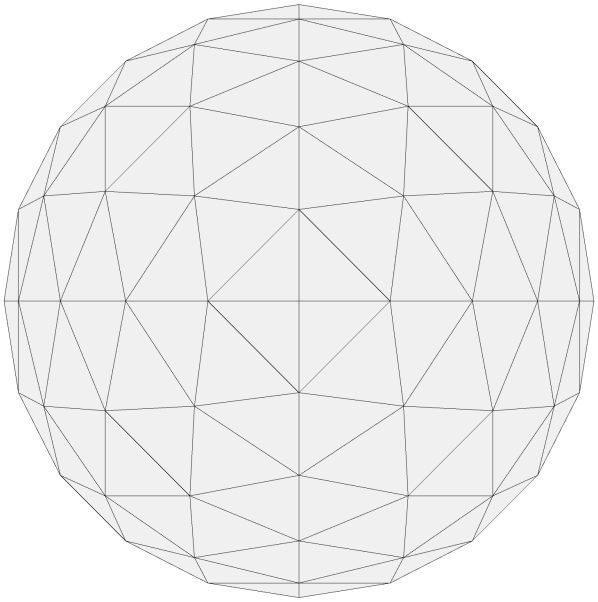
A:	0.3901807 ----------	16	16
B:	0.3666545 ////////////////\\\\\\\\\\\\\\\\	32	32
C:	0.3710839 ----------	16	16
D:	0.4637072 ////\\\\	8	8
E:	0.3332446 \\\\////	8	8
F:	0.3877135 ////\\\\	8	8
G:	0.3128689 ||||	4	16
H:	0.4187780 --------	8	12
G:	0.3128689 ||||	4	
H:	0.4187780 ----	4	
I:	0.4746624 \\\\////	8	8
J:	0.4059698 \\\\////	8	16
K:	0.4355972 \/\/\/	8	8
G:	0.3128689 ||||	4	
J:	0.4059698 \/\/\/	8	
L:	0.4370160 ----	4	4
G:	0.3128689 ||||	4	



152 struts
longest = 0.4746624

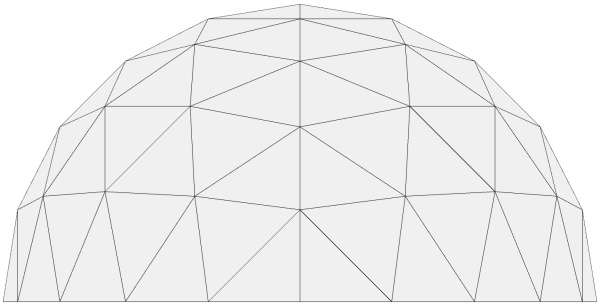
Octahedron Dome, 5 levels, 16 base





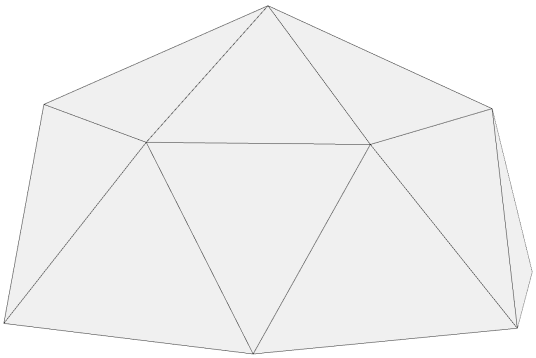
Rad

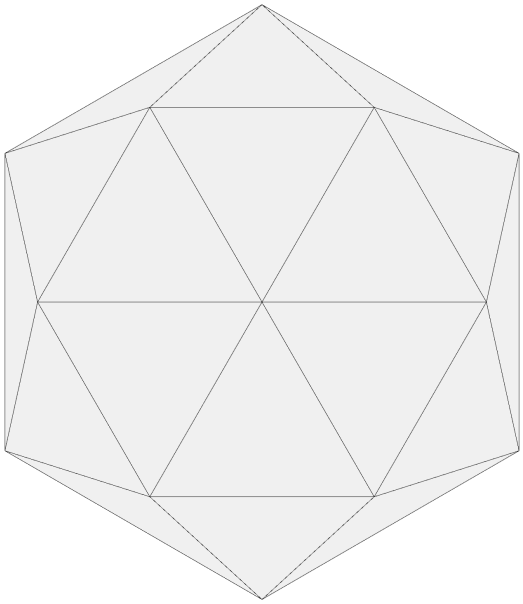
A:	0.3128689 ----------||||	24	40
B:	0.4370160 ////\\\\	8	12
C:	0.4280825 ////\\\\	8	24
D:	0.3675622 \\\\////	8	48
E:	0.4059019 \\\\////	8	36
D:	0.3675622 \\\\////	8	
A:	0.3128689 ||||	4	
D:	0.3675622 \\\\////	8	
C:	0.4280825 ////\\\\	8	
D:	0.3675622 \\\\////	8	
E:	0.4059019 ////\\\\\\\\////	16	
A:	0.3128690 ||||	4	
E:	0.4059019 ----\\\\////	12	
D:	0.3675622 \\\\////	8	
C:	0.4280825 \/\/\/\/	8	
A:	0.3128689 ||||	4	
D:	0.3675622 \/\/\/\/	8	
B:	0.4370160 ----	4	
A:	0.3128689 ||||	4	



160 struts
longest = 0.4370160

Octahedron Dome, 5 levels, 20 base (5F)



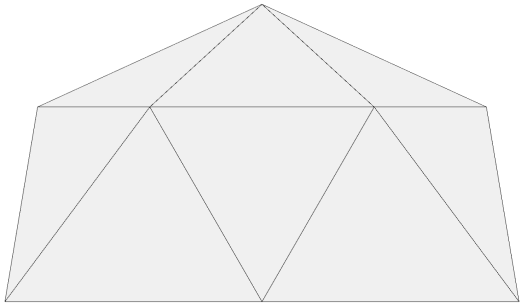


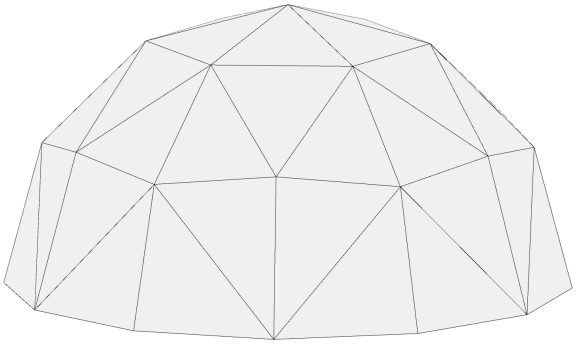
Radius Factors:

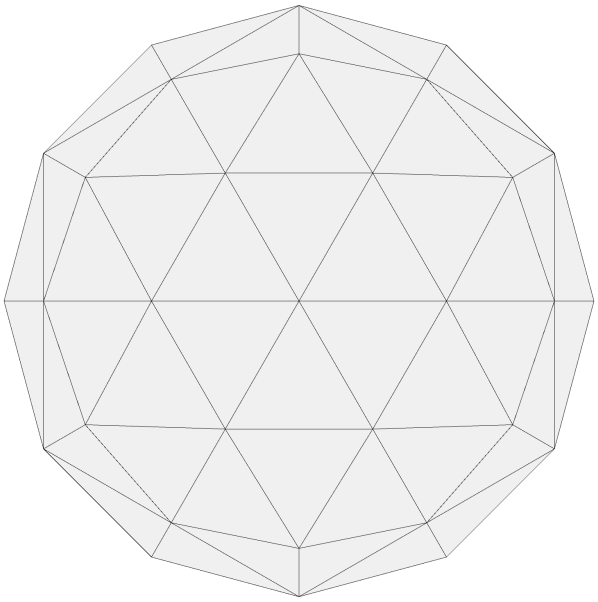
A:	1.0000000 ------	6	6
B:	0.8310793 \/\/\/\/\/	12	18
C:	0.7559290 ------	6	6
B:	0.8310793 ||||||	6	

30 struts
longest = 1.0000000

Hexagon top dome, 2 levels, 6 base

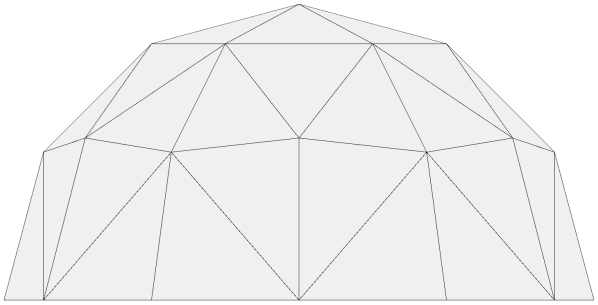






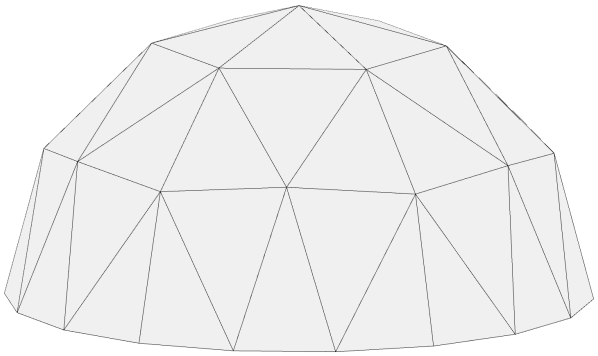
Radius Factors:

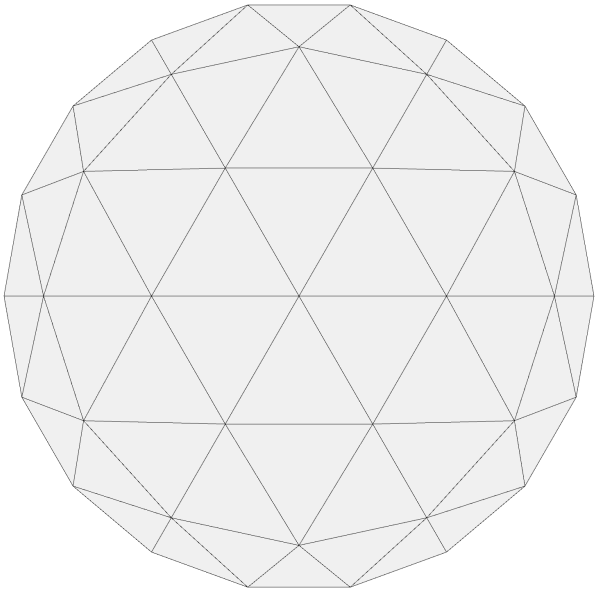
A:	0.5176381 ----------|||||	18	30
B:	0.7071068 \/\/\/\/\/	12	12
C:	0.5715907 |||||	6	18
D:	0.4441699 \/\/\/\/\/	12	12
A:	0.5176381 |||||	6	
C:	0.5715907 \/\/\/\/\/	12	
E:	0.5000000 ------	6	6
A:	0.5176381 |||||	6	



78 struts
longest = 0.7071068

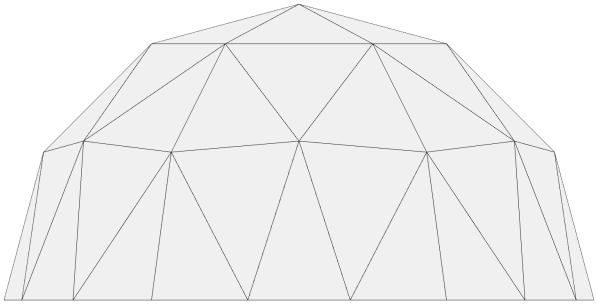
Hexagon top dome, 3 levels, 12 base





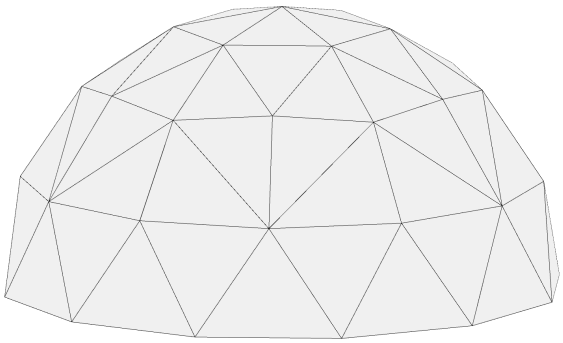
Radius Factors:

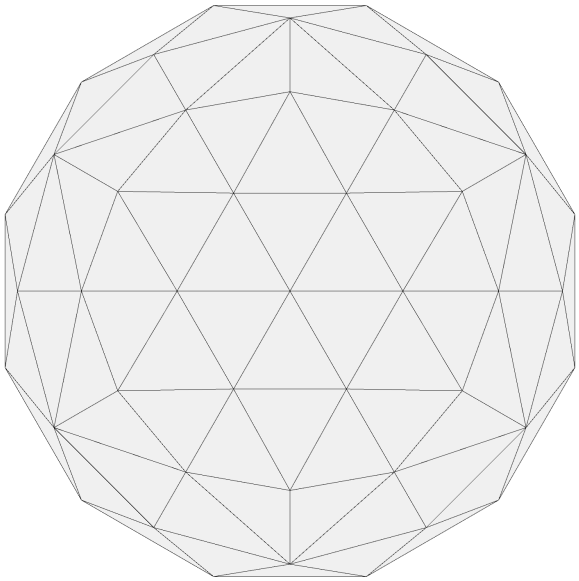
A:	0.3472964 ----------	18	18
B:	0.5176381 ||||||	6	18
C:	0.6102497 //////\\\\\\	12	12
D:	0.5821592 \\\\\\//////	12	24
E:	0.4445345 \/\/\/\/\/	12	12
B:	0.5176381 ||||||	6	
D:	0.5821592 \/\/\/\/\/	12	
F:	0.5000000 ------	6	6
B:	0.5176381 ||||||	6	

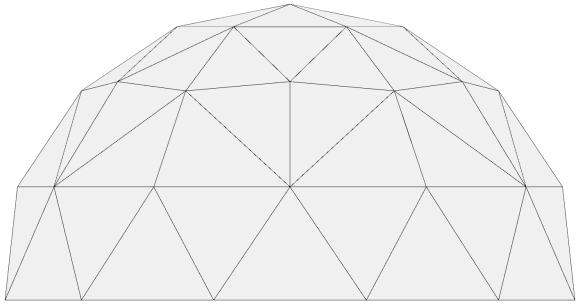


90 struts
longest = 0.6102497

Hexagon top dome, 3 levels, 18 base





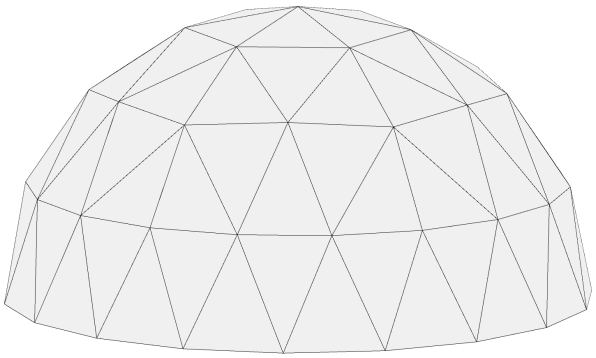


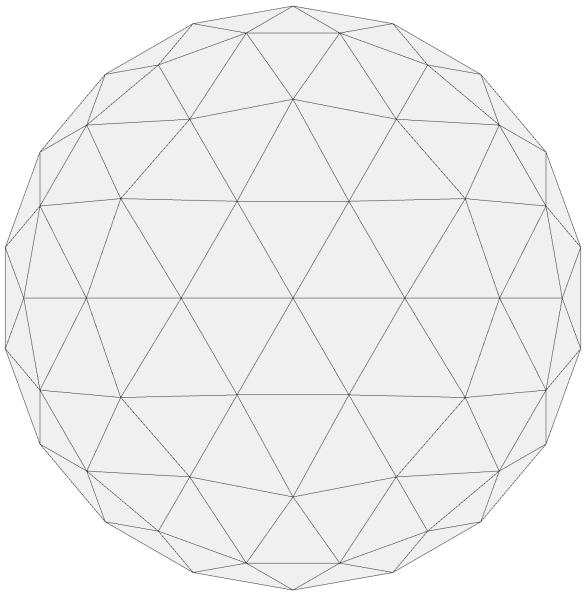
Radius Factors:

A:	0.5176381 ----------	12	12
B:	0.4638985 //////\\\\\\\\\\\\///////	24	24
C:	0.4782352 ----------	12	12
D:	0.3901807 ||||||	6	18
E:	0.5720902 VVVVV	12	12
F:	0.4344031 ||||||	6	18
G:	0.3603153 VVVVV	12	12
D:	0.3901807 ||||||	6	
F:	0.4344031 VVVVV	12	
H:	0.3826834 ------	6	6
D:	0.3901807 ||||||	6	

114 struts
longest = 0.5720902

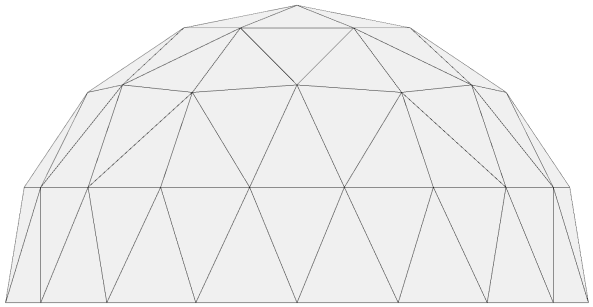
Hexagon top dome, 4 levels, 12 base





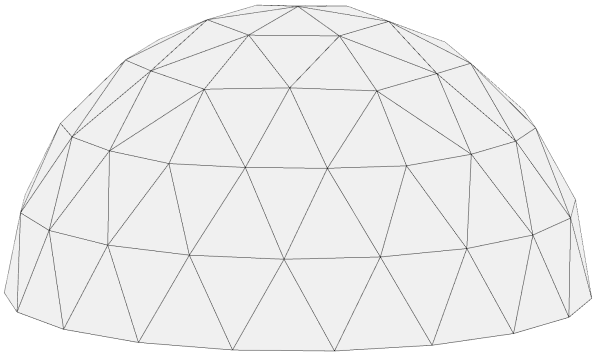
Radius Factors:

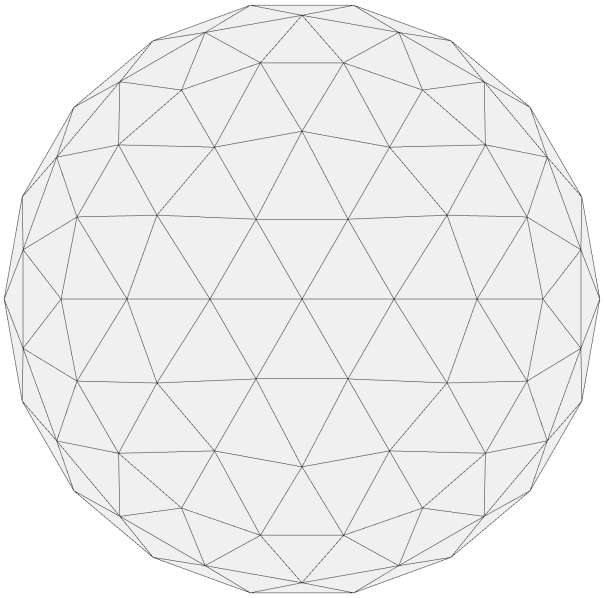
A:	0.3472964 ----------	18	18
B:	0.4298750 //////\\\\\\\\\\\/////////\\\\\\	36	36
C:	0.3200701 ----------	12	18
D:	0.3843907 ||||||	6	6
C:	0.3200701 ------	6	
E:	0.4757705 //////\\\\\\	12	12
F:	0.4421178 \\\\\\//////	12	24
G:	0.3610238 \/\/\/\/\/	12	12
H:	0.3901807 ||||||	6	12
F:	0.4421178 \/\/\/\/\/	12	
I:	0.3826834 ------	6	6
H:	0.3901807 ||||||	6	



144 struts
longest = 0.4757705

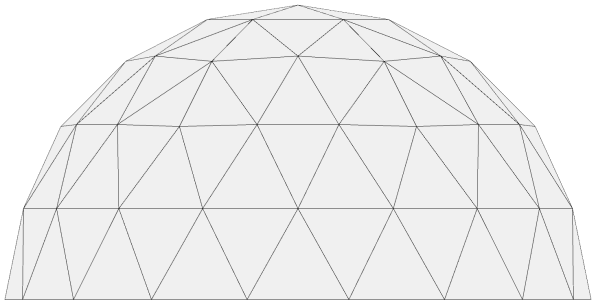
Hexagon top dome, 4 levels, 18 base





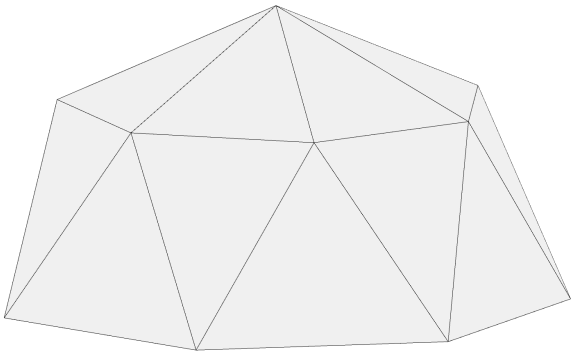
Radius Factors:

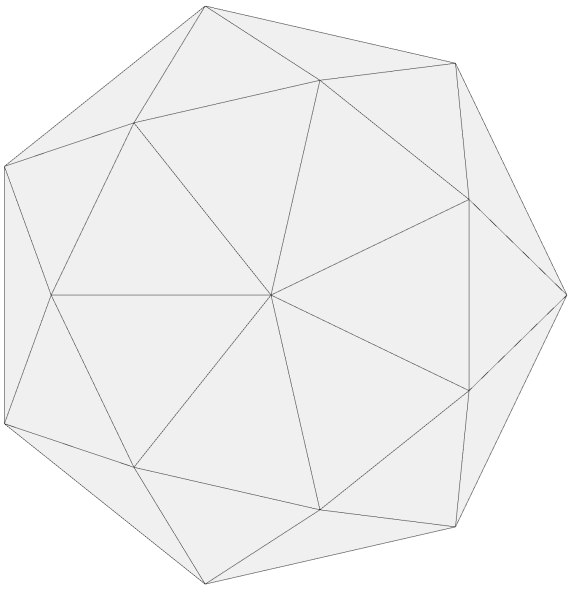
A:	0.3472964 ----------	18	18
B:	0.3560679 \/\/\/\/\/\/\/\/\/\/\/\/	36	36
C:	0.3302985 ----------	18	18
D:	0.3482319 //////\\\\\\	12	12
E:	0.3552874 \\\\\\/////////\\\\\\	24	48
F:	0.2802491 \\\\\\//////	12	12
G:	0.2792947 ------	6	6
H:	0.3128689 ||||||	6	18
I:	0.3872009 //////\\\\\\	12	12
E:	0.3552874 \\\\\\//////	12	
J:	0.2992372 \/\/\/\/\/	12	12
H:	0.3128689 ||||||	6	
E:	0.3552874 \/\/\/\/\/	12	
K:	0.3090170 ------	6	6
H:	0.3128689 ||||||	6	



198 struts
longest = 0.3872009

Hexagon top dome, 5 levels, 18 base



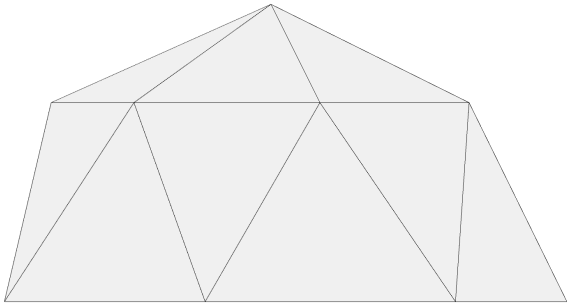


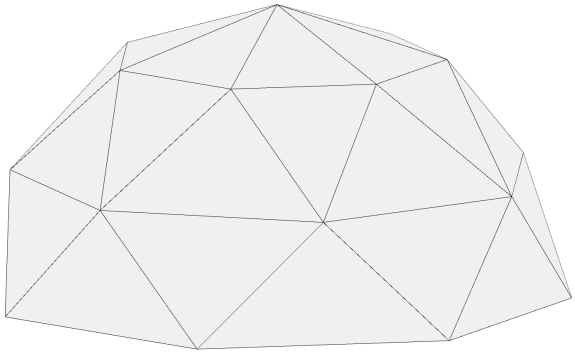
Radius Factors:

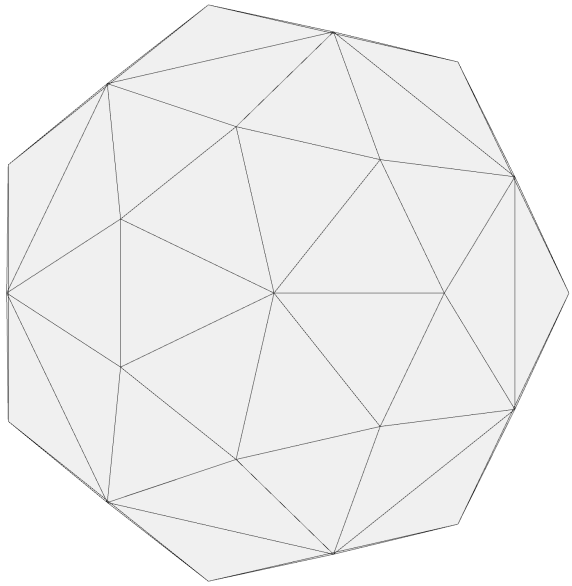
A:	0.8677675 -------	7	7
B:	0.8131884 \/\/\/\/\/	14	21
C:	0.6446958 -------	7	7
B:	0.8131884 |||||||	7	

35 struts
longest = 0.8677675

Heptagon top dome, 2 levels, 7 base





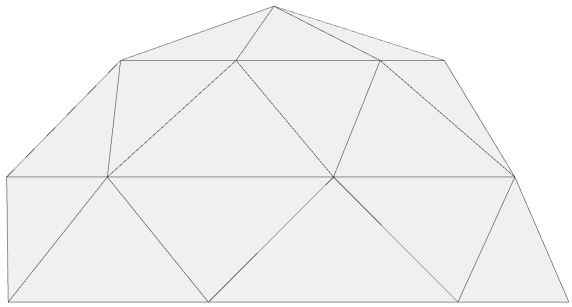


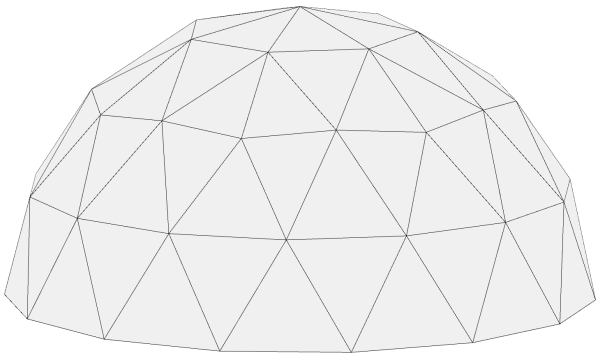
Radius Factors:

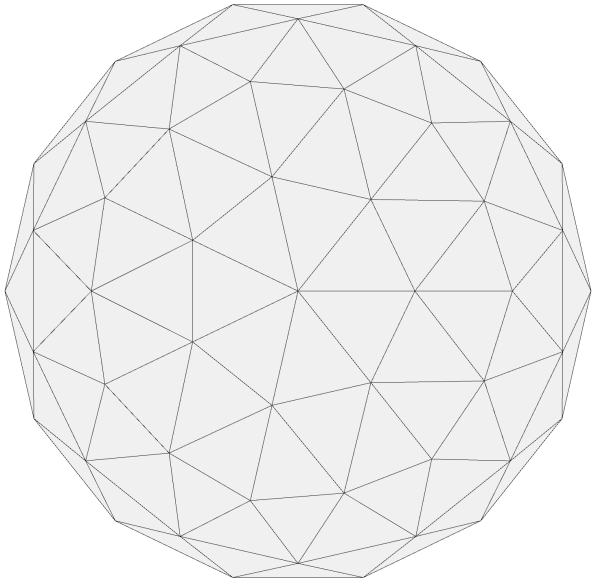
A:	0.8677675 -------	7	7
B:	0.6136049 \/\/\/\/\/	14	14
C:	0.7818311 -------	7	7
D:	0.5996160 \/\/\/\/\/	14	21
E:	0.4963920 -------	7	7
D:	0.5996160 |||||||	7	

56 struts
longest = 0.8677675

Heptagon top dome, 3 levels, 7 base





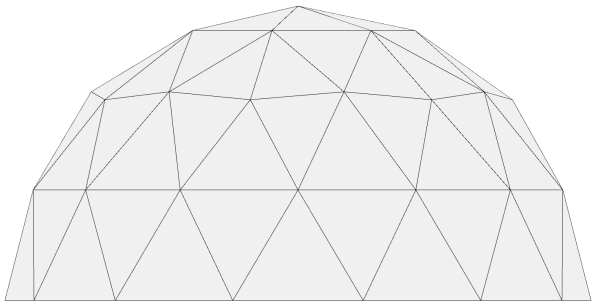


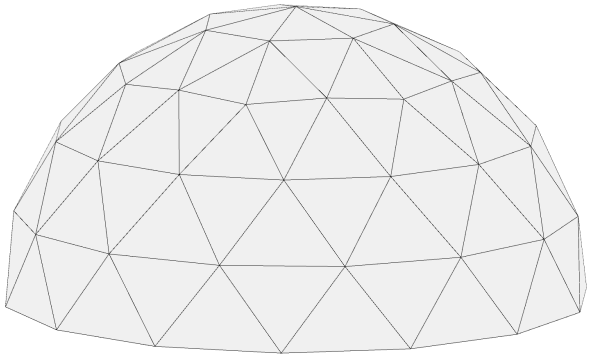
Radius Factors:

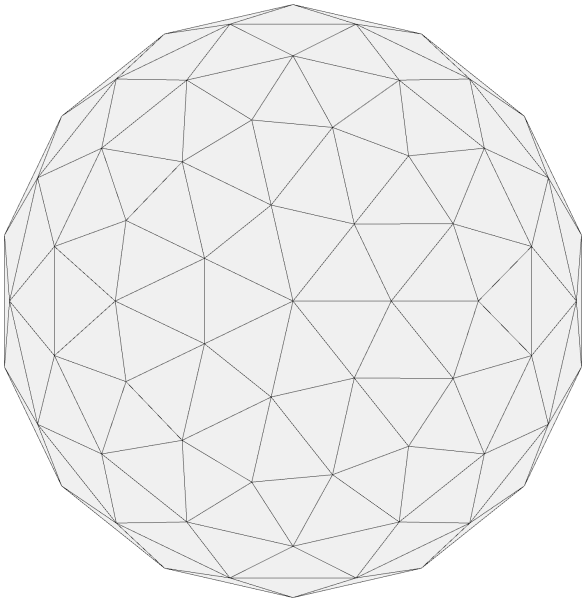
A:	0.4450419 ----------	14	14
B:	0.4450246 \/\/\/\/\/\/\/\/\/\/\/	28	28
C:	0.4112840 ----------	14	14
D:	0.4050718 \\\\\\\///////	14	28
E:	0.4368053 ///////\\\\\\\	14	28
F:	0.3204263 \/\/\/\/\/\/	14	14
D:	0.4050718 |||||||	7	
E:	0.4368053 \/\/\/\/\/\/	14	
G:	0.3442230 -------	7	7
D:	0.4050718 |||||||	7	

133 struts
longest = 0.4450419

Heptagon top dome, 4 levels, 14 base

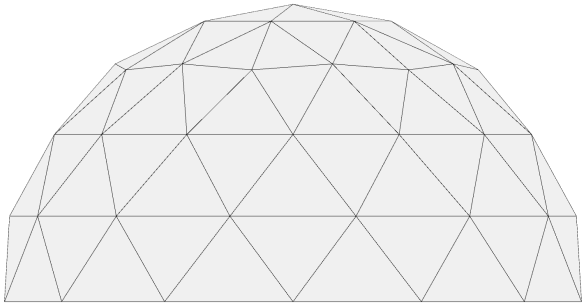






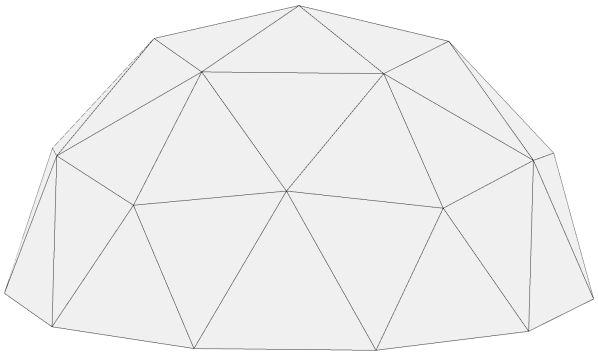
Radius Factors:

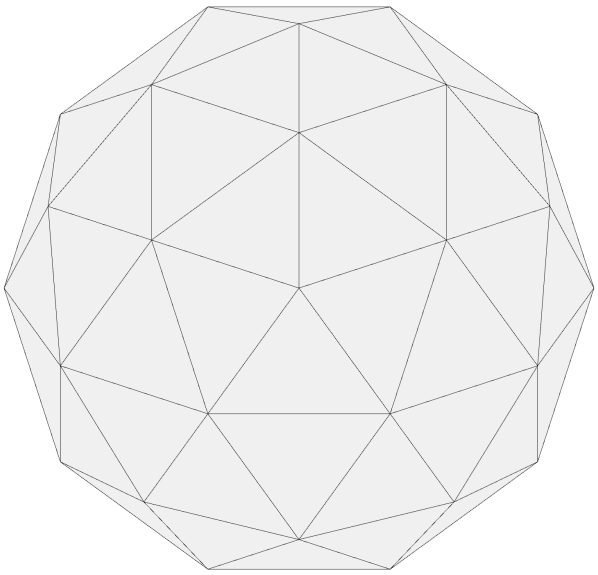
A:	0.6293857 ----------	14	14
B:	0.5145636 \/\/\/\/\/\/\/\/\/\/\/\/	28	84
C:	0.6028388 ----------	14	14
B:	0.5145636 \/\/\/\/\/\/\/\/\/\/\/\/	28	
D:	0.5204909 ----------	14	14
E:	0.4763388 \\\\\\\///////	14	28
B:	0.5145636 ///////\\\\\\\	14	
F:	0.3887878 \/\/\/\/\/\/	14	
E:	0.4763388 |||||||	7	
B:	0.5145636 \/\/\/\/\/\/	14	
G:	0.4074474 -------	7	
E:	0.4763388 |||||||	7	



175 struts
longest = 0.6293857

Heptagon top dome, 5 levels, 14 base



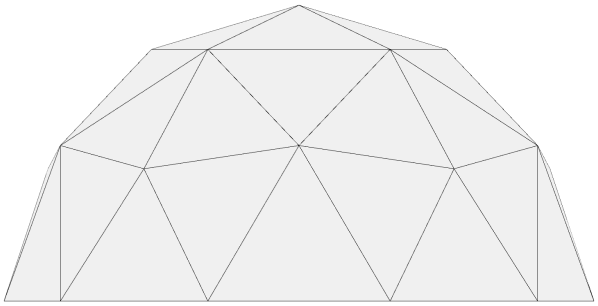


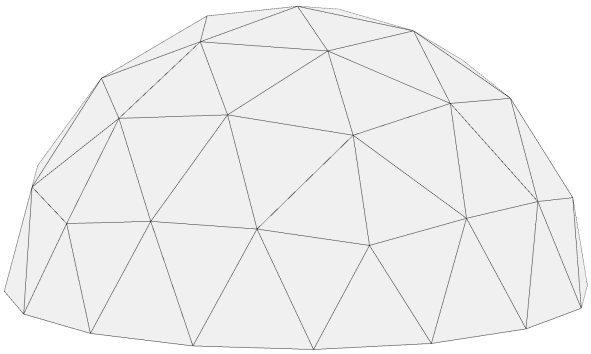
Radius Factors:

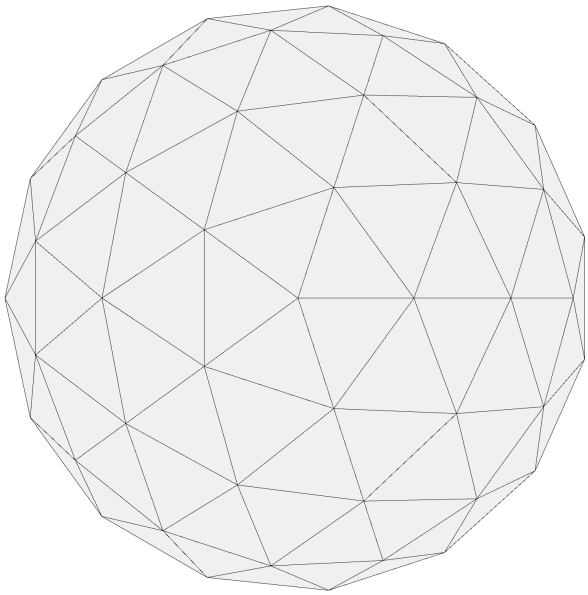
A:	0.6180340 ----------	10	35
B:	0.5465330 \\\\\/////	10	30
A:	0.6180340 \\\\\/////	10	
B:	0.5465331 /////\\\\\\|||||	15	
A:	0.6180340 \\\\\/////-----	15	
B:	0.5465331 /////	5	

65 struts
longest = 0.6180340

2V Icosahedron dome (Std), 3 levels, 10 base

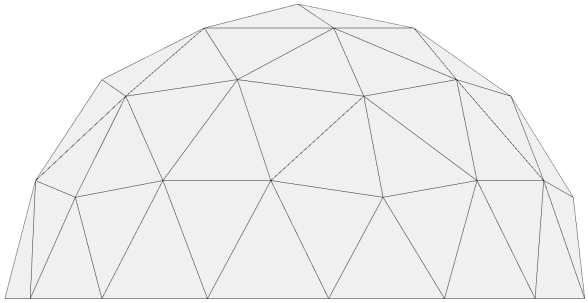






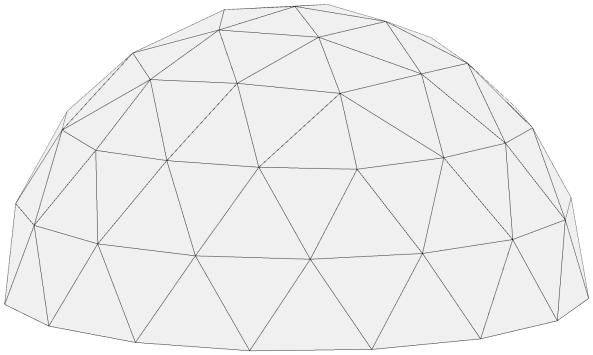
Radius Factors:

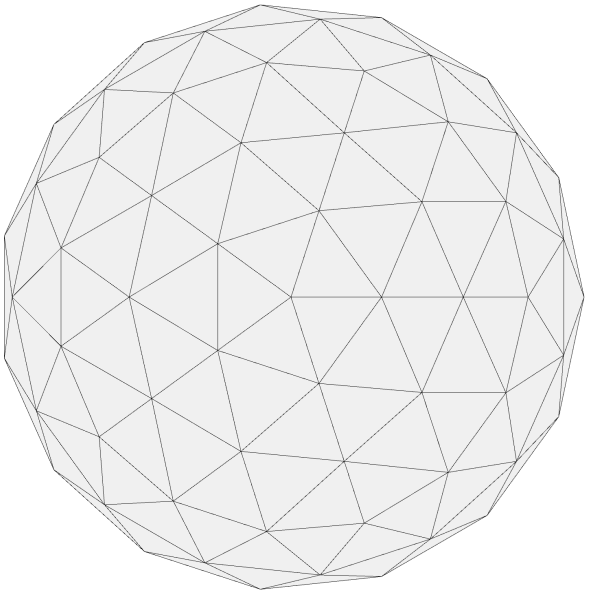
A:	0.4158234 ----------	15	15
B:	0.4037772 /////\\\\\	10	25
C:	0.4542514 \\\\\	5	30
D:	0.4572222 /////\\\\\	10	10
C:	0.4542514 /////	5	
E:	0.3873357 \\\\\/////-----	15	15
B:	0.4037772 |||||	5	
F:	0.4808443 /////\\\\\	10	10
C:	0.4542514 \\\\\/////	10	
G:	0.4382479 \\\\\/////	10	10
B:	0.4037773 |||||	5	
C:	0.4542514 /////\\\\\	10	
H:	0.4648944 -----	5	5
B:	0.4037772 |||||	5	



120 struts
longest = 0.4808443

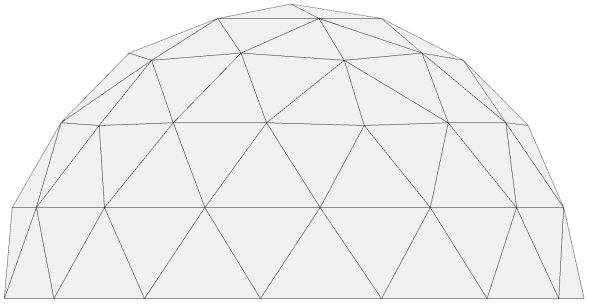
3V (3/8 style hemi) icosahedron flat-bottom dome, 4 levels, 15 base





Radius Factors:

A:	0.4158234 ----------	15	16
B:	0.3734337 \/\/\/\/\/\/\/\/\/\/\/\/	30	30
C:	0.3954715 ----------	15	15
D:	0.3626491 /////\\\\\	10	10
E:	0.3716403 \\\\\	5	30
F:	0.3722110 /////\\\\\	10	10
E:	0.3716403 /////	5	
G:	0.3346794 \\\\\////-----	15	15
H:	0.3128689 |||||	5	15
I:	0.4151203 /////\\\\\	10	10
E:	0.3716403 \\\\\////	10	
J:	0.3547641 \\\\\////	10	10
H:	0.3128689 |||||	5	
E:	0.3716403 /////\\\\\	10	
K:	0.3632712 -----	5	5
H:	0.3128689 \\\\\	5	



165 struts
longest = 0.4158234

3V (5/8 style hemi) icosahedron flat-bottom dome, 5 levels, 15 base