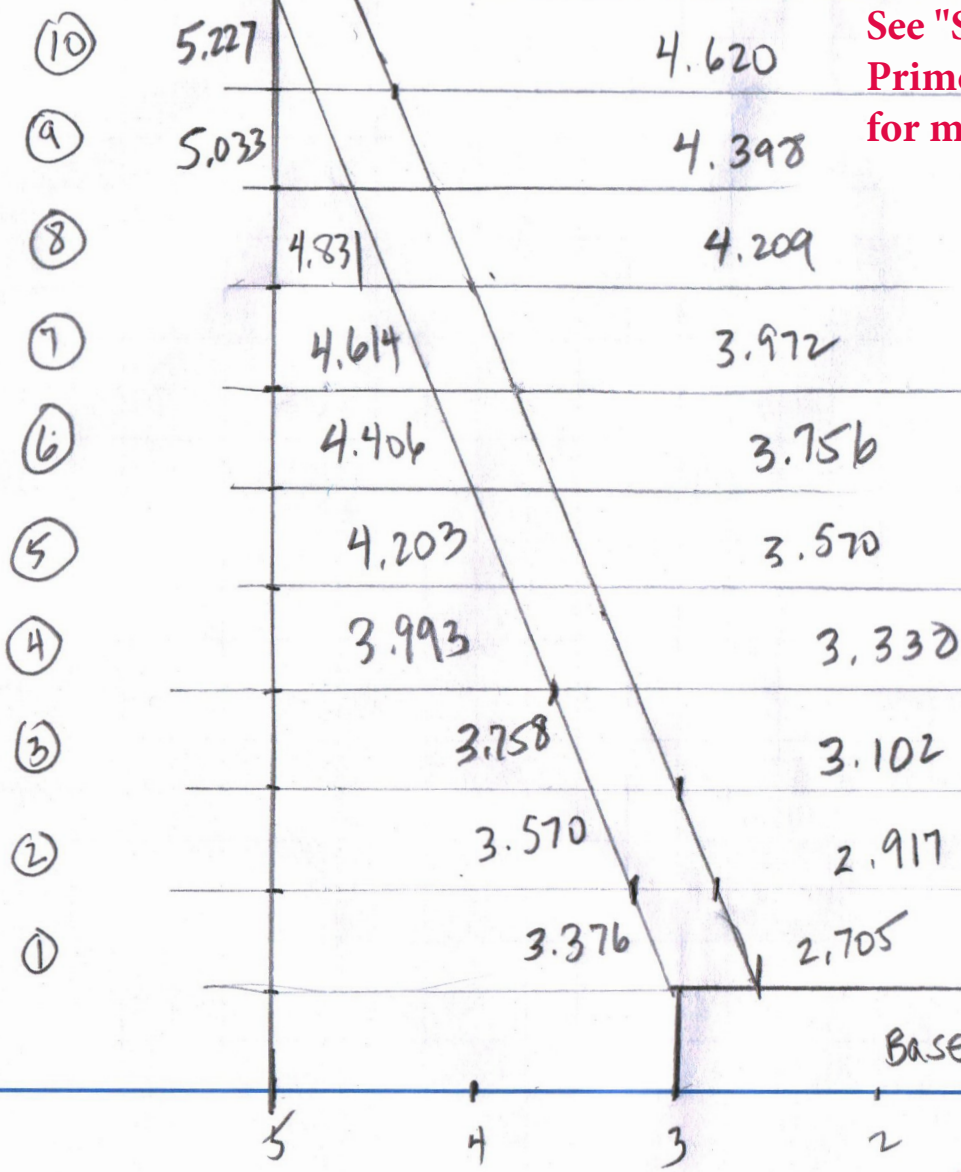


Row

<http://pricecubed.com/Woodworking/Woodworking.html>

See "Segmented Bowl
Primer Part I - Design"
for more details



32 Segments

11.250 Polygon angle

5.625 Cut angle

0 Gap width - parallel pieces or parallel open gap

0.125 Ring Padding - this is the extra material on the inside and outside of the polygon that will be cut off - same on both sides

2/20/2025 date of this calculation

Final cut ring to be the following dimensions:

Row	Overall Radius		Overall Diameter		Overall Circumference		Ring Width	Circumference - gaps		diameter - gaps	
	In	Out	In	Out	In	Out		In	Out	In	Out
10	4.620	5.227	9.240	10.454	29.028	32.842	0.607	29.028	32.842	9.240	10.454
9	4.398	5.033	8.796	10.066	27.633	31.623	0.635	27.633	31.623	8.796	10.066
8	4.209	4.831	8.418	9.662	26.446	30.354	0.622	26.446	30.354	8.418	9.662
7	3.972	4.614	7.944	9.228	24.957	28.991	0.642	24.957	28.991	7.944	9.228
6	3.756	4.406	7.512	8.812	23.600	27.684	0.650	23.600	27.684	7.512	8.812
5	3.570	4.203	7.140	8.406	22.431	26.408	0.633	22.431	26.408	7.140	8.406
4	3.338	3.993	6.676	7.986	20.973	25.089	0.655	20.973	25.089	6.676	7.986
3	3.102	3.758	6.204	7.516	19.490	23.612	0.656	19.490	23.612	6.204	7.516
2	2.917	3.570	5.834	7.140	18.328	22.431	0.653	18.328	22.431	5.834	7.140
1	2.705	3.376	5.410	6.752	16.996	21.212	0.671	16.996	21.212	5.410	6.752

Calculated segment properties including Ring Padding and Gap:

Row	Overall Radius		Overall Diameter		Overall Circumference		Ring Width	Circumference - gaps		diameter - gaps	
	In	Out	In	Out	In	Out		In	Out	In	Out
10	4.495	5.352	8.990	10.704	28.243	33.628	0.857	28.243	33.628	8.990	10.704
9	4.273	5.158	8.546	10.316	26.848	32.409	0.885	26.848	32.409	8.546	10.316
8	4.084	4.956	8.168	9.912	25.661	31.139	0.872	25.661	31.139	8.168	9.912
7	3.847	4.739	7.694	9.478	24.171	29.776	0.892	24.171	29.776	7.694	9.478
6	3.631	4.531	7.262	9.062	22.814	28.469	0.900	22.814	28.469	7.262	9.062
5	3.445	4.328	6.890	8.656	21.646	27.194	0.883	21.646	27.194	6.890	8.656
4	3.213	4.118	6.426	8.236	20.188	25.874	0.905	20.188	25.874	6.426	8.236
3	2.977	3.883	5.954	7.766	18.705	24.398	0.906	18.705	24.398	5.954	7.766
2	2.792	3.695	5.584	7.390	17.543	23.216	0.903	17.543	23.216	5.584	7.390
1	2.580	3.501	5.160	7.002	16.211	21.997	0.921	16.211	21.997	5.160	7.002

Segment dimensions in closest 1/16" fractional measurements:

Row	Segment Width	Segment Width Carpenter	Outer Segment Length	Outer Segment Length Carpenter
10	0.879	7/8"	1.054	1 1/16"
9	0.906	7/8"	1.016	1 " even
8	0.892	7/8"	0.976	1 " even
7	0.911	15/16"	0.934	15/16"
6	0.917	15/16"	0.893	7/8"
5	0.900	7/8"	0.853	7/8"
4	0.920	15/16"	0.811	13/16"
3	0.920	15/16"	0.765	3/4"
2	0.916	15/16"	0.728	3/4"
1	0.933	15/16"	0.690	11/16"

Table Saw Gap	Table Saw Gap Carpenter
1.049	1 1/16"
1.011	1 " even
0.972	1 " even
0.929	15/16"
0.888	7/8"
0.848	7/8"
0.807	13/16"
0.761	3/4"
0.724	3/4"
0.686	11/16"

Estimated Length of Material
34"
33"
31"
30"
29"
27"
26"
25"
23"
22"

0.09375 table saw kerf

More details can be found in the "Segmented Bowl Design Primer Part II - Construction"

Segment dimensions in closest 1/32" fractional measurements:

Row	Segment Width	Segment Width Carpenter	Outer Segment Length	Outer Segment Length Carpenter
10	0.879	7/8"	1.054	1 1/16"
9	0.906	29/32"	1.016	1 1/32"
8	0.892	29/32"	0.976	31/32"
7	0.911	29/32"	0.934	15/16"
6	0.917	29/32"	0.893	29/32"
5	0.900	29/32"	0.853	27/32"
4	0.920	29/32"	0.811	13/16"
3	0.920	29/32"	0.765	3/4"
2	0.916	29/32"	0.728	23/32"
1	0.933	15/16"	0.690	11/16"

Table Saw Gap	Table Saw Gap Carpenter
1.049	1 1/16"
1.011	1 " even
0.972	31/32"
0.929	15/16"
0.888	7/8"
0.848	27/32"
0.807	13/16"
0.761	3/4"
0.724	23/32"
0.686	11/16"

Estimated Length of Material
34"
33"
31"
30"
29"
27"
26"
25"
23"
22"

32 Segments
0 Gap
0.125 Padding

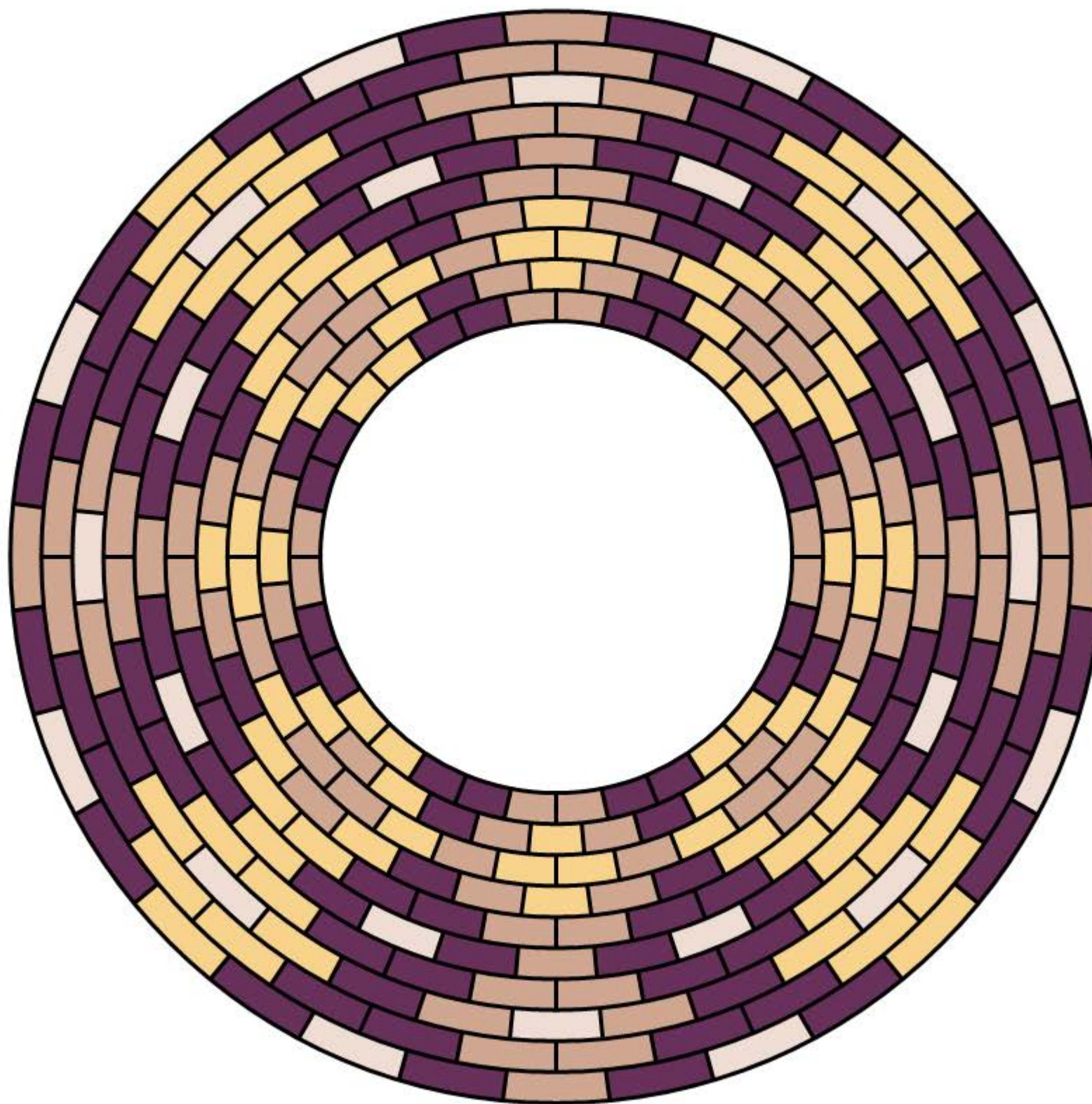
4 cherry, 8 maple, 4 osage
8 cherry, 8 osage, 16 padding
8 cherry, 8 maple, 8 osage
8 cherry, 8 osage, 16 padding
4 cherry, 8 maple, 4 osage
8 cherry, 8 osage, 16 padding
12 cherry, 12 osage, 8 padding
16 cherry, 16 osage
12 cherry, 12 osage, 8 padding
8 cherry, 8 osage, 16 padding

<http://pricecubed.com/Woodworking/Woodworking.html>

Row 10:
4 Cherry
8 Maple
4 Osage Orange
16 Purpleheart

See Segmented
"Bowl Primer Part
III - Adding Colors
and Patterns"
for more details

Download the
"Bowl Design App"
for Windows
software



Row 1:
8 Cherry
8 Osage Orange
16 Purpleheart

Row 2:
12 Cherry
12 Osage Orange
8 Purpleheart

Row 3:
16 Cherry
16 Osage Orange

Row 4:
12 Cherry
12 Osage Orange
8 Purpleheart

Row 5:
8 Cherry
8 Osage Orange
16 Purpleheart

Row 6:
4 Cherry
8 Maple
4 Osage Orange
16 Purpleheart

Row 7:
8 Cherry
8 Osage Orange
16 Purpleheart

Row 8:
8 Cherry
8 Maple
8 Osage Orange
8 Purpleheart

Row 9:
8 Cherry
8 Osage Orange
16 Purpleheart