

# REFERENCE INFORMATION

## COPPER TUBE

STANDARD* LENGTHS		Type K		Type L / ACR		Type M		DWV	
		HARD COILS	20' Lengths 60' thru 1-1/2 100' thru 1-1/4 40' and 60' - 2" only	HARD COILS	20' Lengths 60' thru 1-1/2 100' thru 1-1/4 40' - 2" only	HARD COILS	20' Lengths Consult	HARD	20' Lengths
NOM	O.D.	WALL	WGT/FT	WALL	WGT/FT	WALL	WGT/FT	WALL	WGT/FT
1/4"	3/8"	0.035	0.145	0.030	0.126	0.025	0.106	—	—
3/8"	1/2"	0.049	0.269	0.035	0.198	0.025	0.145	—	—
1/2"	5/8"	0.049	0.344	0.040	0.285	0.028	0.204	—	—
5/8"	3/4"	0.049	0.418	0.042	0.362	0.030	0.263	—	—
3/4"	7/8"	0.065	0.641	0.045	0.455	0.032	0.328	—	—
1"	1-1/8"	0.065	0.839	0.050	0.655	0.035	0.465	—	—
1-1/4"	1-3/8"	0.065	1.04	0.055	0.884	0.042	0.682	0.040	0.650
1-1/2"	1-5/8"	0.072	1.36	0.060	1.14	0.049	0.940	0.042	0.809
2"	2-1/8"	0.083	2.06	0.070	1.75	0.058	1.46	0.042	1.07
2-1/2"	2-5/8"	0.095	2.93	0.080	2.48	0.065	2.03	—	—
3"	3-1/8"	0.109	4.00	0.090	3.33	0.072	2.68	0.045	1.69
3-1/2"	3-5/8"	0.120	5.12	0.100	4.29	0.083	3.58	—	—
4"	4-1/8"	0.134	6.51	0.110	5.38	0.095	4.66	0.058	2.87
5"	5-1/8"	0.160	9.67	0.125	7.61	0.109	6.66	0.072	4.43
6"	6-1/8"	0.192	13.90	0.140	10.20	0.122	8.92	0.083	6.10
8"	8-1/8"	0.271	25.90	0.200	19.30	0.170	16.46	—	—

\* FOR SPECIAL LENGTHS OR TEMPER CONSULT FOR PRICE AND AVAILABILITY.

## REFRIGERATION SERVICE TUBE

O.D.	WALL THICKNESS	WEIGHT PER FOOT	WEIGHT PER COIL*	COIL DIAMETER	COILS PER MASTER	WEIGHT PER MASTER
1/8"	0.030	0.0347	1.74	14-3/4"	10	17.4
3/16"	0.030	0.0575	2.88	14-3/4"	10	28.80
1/4"	0.030	0.0804	4.02	14-3/4"	10	40.20
5/16"	0.032	0.109	5.45	14-3/4"	10	54.50
3/8"	0.032	0.134	6.70	16-1/2"	10	67.00
1/2"	0.032	0.182	9.10	20"	5	45.50
5/8"	0.035	0.251	12.55	22"	5	62.75
3/4"	0.035	0.305	15.25	25"	3	45.75
7/8"	0.045	0.455	22.75	27-1/2"	3	22.75
1-1/8"	0.050	0.655	32.75	34-1/2"	—	32.75
1-3/8"	0.055	0.884	44.20	39-1/2"	—	44.20
1-5/8"	0.060	1.14	57.00	42"	—	57.00

\* STANDARD 50' COIL - 100' COILS ALSO AVAILABLE AS STANDARD STOCK ITEM.

## TEMPERATURE CONTROL TUBE

PACKED 2000' PER BOX

O.D.	WALL	WGT/FT	O.D.	WALL	WGT/FT
1/4"	0.025	0.0685	1/4"	0.032	0.0849

## PLASTIC COATED COPPER TUBE

Polyethylene coating made from low density LDPE resin and is extruded at 0.025" minimum wall.

## Tech Talk

This table lists the outside & inside diameter, wall thickness and internal area for a wide range of commercial pipe sizes. The Internal Area can be used to calculate velocities of fluids.

These dimensions apply to carbon, stainless steel, PVC and seamless pipe.

STD = standard, XS = extra strong wall, XXS = double extra strong wall, S = Stainless steel

SIZE NPS	SIZE DN	O.D. (in.)	Schedules	Wall (in.)*	I.D. (in.)*	A <sub>int</sub> (in. <sup>2</sup> )	A <sub>int</sub> (Ft. <sup>2</sup> )
1/8	6	0.405	5, 5S	.035	.335	.0881	.00061
			10, 10S	.049	.307	.0740	.00051
			30	.057	.291	.0665	.00046
			STD, 40, 40S	.068	.269	.0568	.00039
			XS, 80, 80S	.095	.215	.0363	.00025
1/4	8	0.540	5, 5S	.049	.442	.1534	.00107
			10, 10S	.065	.410	.1320	.00092
			30	.073	.394	.1219	.00085
			STD, 40, 40S	.088	.364	.1041	.00072
			XS, 80, 80S	.119	.302	.0716	.00050
3/8	10	0.675	5, 5S	.049	.577	.2615	.00182
			10, 10S	.065	.545	.2333	.00162
			30	.073	.529	.2198	.00153
			STD, 40, 40S	.091	.493	.1909	.00133
			XS, 80, 80S	.126	.423	.1405	.00098
1/2	15	0.840	5, 5S	.065	.710	.3959	.00275
			10, 10S	.083	.674	.3568	.00248
			30	.095	.650	.3318	.00230
			STD, 40, 40S	.109	.622	.3039	.00211
			XS, 80, 80S	.147	.546	.2341	.00163
			120	.170	.500	.1963	.00136
			160	.187	.466	.1706	.00118
			XXS	.294	.252	.0499	.00035
3/4	20	1.050	5, 5S	.065	.920	.6648	.00462
			10, 10S	.083	.884	.6138	.00426
			30	.095	.860	.5809	.00403
			STD, 40, 40S	.113	.824	.5333	.00370
			XS, 80, 80S	.154	.742	.4324	.00300
			120	.170	.710	.3959	.00275
			160	.219	.612	.2942	.00204
			XXS	.308	.434	.1479	.00103

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*Tech Talk*


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SIZE NPS	SIZE DN	O.D. (in.)	Schedules	Wall (in.)*	I.D. (in.)*	A <sub>int</sub> (in. <sup>2</sup> )	A <sub>int</sub> (Ft. <sup>2</sup> )			
1	25	1.315	5, 5S	.065	1.185	1.1029	.00766			
			10, 10S	.109	1.097	.9452	.00656			
			30	.114	1.087	.9280	.00644			
			STD, 40, 40S	.133	1.049	.8643	.00600			
			XS, 80, 80S	.179	.957	.7193	.00500			
			120	.200	.915	.6576	.00457			
			160	.250	.815	.5217	.00362			
			XXS	.358	.599	.2818	.00196			
			1 ¼	32	1.660	5, 5S	.065	1.530	1.8385	.01277
10, 10S	.109	1.442				1.6331	.01134			
30	.117	1.426				1.5971	.01109			
STD, 40, 40S	.140	1.380				1.4957	.01039			
XS, 80, 80S	.191	1.278				1.2828	.00891			
120	.215	1.230				1.1882	.00825			
160	.250	1.160				1.0568	.00734			
XXS	.382	.896				.6305	.00438			
1 ½	40	1.900				5, 5S	.065	1.770	2.4606	.01709
			10, 10S	.109	1.682	2.2220	.01543			
			30	.125	1.650	2.1382	.01485			
			STD, 40, 40S	.145	1.610	2.0358	.01414			
			XS, 80, 80S	.200	1.500	1.7671	.01227			
			120	.225	1.450	1.6513	.01147			
			160	.281	1.338	1.4061	.00976			
			XXS	.400	1.100	.9503	.00660			
			2	50	2.375	5, 5S	.065	2.245	3.9584	.02749
10, 10S	.109	2.157				3.6542	.02538			
STD, 40, 40S	.154	2.067				3.3556	.02330			
XS, 80, 80S	.218	1.939				2.9529	.02051			
120	.250	1.875				2.7612	.01917			
160	.344	1.687				2.2352	.01552			
XXS	.436	1.503				1.7742	.01232			
2 ½	65	2.875				5, 5S	.083	2.709	5.7638	.04003
						10, 10S	.120	2.635	5.4532	.03787
			STD, 40, 40S	.203	2.469	4.7878	.03325			
			XS, 80, 80S	.276	2.323	4.2383	.02943			
			120	.300	2.275	4.0649	.02823			
			160	.375	2.125	3.5466	.02463			
			XXS	.552	1.771	2.4634	.01711			

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*Tech Talk*


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SIZE NPS	SIZE DN	O.D. (in.)	Schedules	Wall (in.)*	I.D. (in.)*	A <sub>int</sub> (in. <sup>2</sup> )	A <sub>int</sub> (Ft. <sup>2</sup> )
3	80	3.500	5, 5S	.083	3.334	8.7301	.06063
			10, 10S	.120	3.260	8.3469	.05796
			STD, 40, 40S	.216	3.068	7.3927	.05134
			XS, 80, 80S	.300	2.900	6.6052	.04587
			120	.350	2.800	6.1575	.04276
			160	.438	2.624	5.4078	.03755
			XXS	.600	2.300	4.1548	.02885
3 ½	90	4.000	5, 5S	.083	3.834	11.5450	.08017
			10, 10S	.120	3.760	11.1036	.07711
			STD, 40, 40S	.226	3.548	9.8868	.06866
			XS, 80, 80S	.318	3.364	8.8879	.06172
			XXS	.636	2.728	5.8449	.04059
4	100	4.500	5, 5S	.083	4.334	14.7526	.10245
			10, 10S	.120	4.260	14.2531	.09898
			STD, 40, 40S	.237	4.026	12.7303	.08840
			60	.281	3.938	12.1798	.08458
			XS, 80, 80S	.337	3.826	11.4969	.07984
			120	.438	3.624	10.3149	.07163
			160	.531	3.438	9.2833	.06447
			XXS	.674	3.152	7.8030	.05419
4 ½	115	5.000	STD, 40, 40S	.247	4.506	15.9467	.11074
			XS, 80, 80S	.355	4.290	14.4545	.10038
			XXS	.710	3.580	10.0660	.06990
5	125	5.563	5, 5S	.109	5.345	22.4380	.15582
			10, 10S	.134	5.295	22.0202	.15292
			STD, 40, 40S	.258	5.047	20.0058	.13893
			XS, 80, 80S	.375	4.813	18.1937	.12635
			120	.500	4.563	16.3527	.11356
			160	.625	4.313	14.6099	.10146
XXS	.750	4.063	12.9653	.09004			
6	150	6.625	5, 5S	.109	6.407	32.2403	.22389
			10, 10S	.134	6.357	31.7391	.22041
			STD, 40, 40S	.280	6.065	28.8902	.20063
			XS, 80, 80S	.432	5.761	26.0667	.18102
			120	.562	5.501	23.7669	.16505
			160	.719	5.187	21.1311	.14674
XXS	.864	4.897	18.8343	.13079			
7	175	7.625	STD, 40, 40S	.301	7.023	38.7378	.26901
			XS, 80, 80S	.500	6.625	34.4716	.23939
			XXS	.875	5.875	27.1085	.18825

## Tech Talk

SIZE NPS	SIZE DN	O.D. (in.)	Schedules	Wall (in.)*	I.D. (in.)*	A <sub>int</sub> (in. <sup>2</sup> )	A <sub>int</sub> (Ft. <sup>2</sup> )
8	200	8.625	5S	.109	8.407	55.5100	.38549
			10, 10S	.148	8.329	54.4848	.37837
			20	.250	8.125	51.8485	.36006
			30	.277	8.071	51.1616	.35529
			STD, 40, 40S	.322	7.981	50.0270	.34741
			60	.406	7.813	47.9430	.33294
			XS, 80, 80S	.500	7.625	45.6635	.31711
			100	.594	7.437	43.4395	.30166
			120	.719	7.187	40.5681	.28172
			140	.812	7.001	38.4955	.26733
			XXS	.875	6.875	37.1223	.25779
9	225	9.625	STD, 40, 40S	.342	8.941	62.7858	.43601
			XS, 80, 80S	.500	8.625	58.4264	.40574
			XXS	.875	7.875	48.7069	.33824
10	250	10.750	5, 5S	.134	10.482	86.2934	.59926
			10, 10S	.165	10.420	85.2756	.59219
			20	.250	10.250	82.5158	.57303
			30	.307	10.136	80.6906	.56035
			STD, 40, 40S	.365	10.020	78.8542	.54760
			XS, 60, 80S	.500	9.750	74.6618	.51849
			80	.594	9.562	71.8103	.49868
			100	.719	9.312	68.1044	.47295
			120	.844	9.062	64.4967	.44789
			XXS, 140	1.000	8.750	60.1320	.41758
			160	1.125	8.500	56.7450	.39406
11	275	11.750	STD, 40, 40S	.375	11.000	95.0331	.65995
			XS, 80, 80S	.500	10.750	90.7625	.63030
			XXS	.875	10.000	78.2398	.54541
12	300	12.750	5, 5S	.156	12.438	121.5040	.84378
			10, 10S	.180	12.390	120.5680	.83728
			20	.250	12.250	117.8587	.81846
			30	.330	12.090	114.8001	.79722
			STD, 40S	.375	12.000	113.0972	.78540
			40	.406	11.938	111.9316	.77730
			XS, 60, 80S	.500	11.750	108.4339	.75301
			80	.688	11.374	101.6052	.70559
			100	.844	11.062	96.1074	.66741
			XXS, 120	1.000	10.750	90.7625	.63030
			140	1.125	10.500	86.5901	.60132
160	1.312	10.126	80.5314	.55925			

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*Tech Talk*


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SIZE NPS	SIZE DN	O.D. (in.)	Schedules	Wall (in.)*	I.D. (in.)*	A <sub>int</sub> (in. <sup>2</sup> )	A <sub>int</sub> (Ft. <sup>2</sup> )			
14	350	14.000	5S	.156	13.688	147.1531	1.02190			
			10S	.188	13.624	145.7803	1.01236			
			10	.250	13.500	143.1387	.99402			
			20	.312	13.376	140.5213	.97584			
			STD, 30, 40S	.375	13.250	137.8863	.95754			
			40	.438	13.124	135.2764	.93942			
			XS, 80S	.500	13.000	132.7322	.92175			
			60	.594	12.812	128.9209	.89528			
			80	.750	12.500	122.7184	.85221			
			100	.938	12.124	115.4467	.80171			
			120	1.094	11.812	109.5813	.76098			
			140	1.250	11.500	103.8688	.72131			
			160	1.406	11.188	98.3093	.68270			
			16	400	16.000	5S	.165	15.670	192.8535	1.33926
10S	.188	15.624				191.7229	1.33141			
10	.250	15.500				188.6917	1.31036			
20	.312	15.376				185.6848	1.28948			
STD, 30, 40S	.375	15.250				182.6540	1.26843			
XS, 40, 80S	.500	15.000				176.7144	1.22718			
60	.656	14.688				169.4396	1.17666			
80	.844	14.312				160.8756	1.11719			
100	1.031	13.938				152.5775	1.05957			
120	1.219	13.562				144.4565	1.00317			
140	1.438	13.124				135.2764	.93942			
160	1.594	12.812				128.9209	.89528			
18	450	18.000				5S	.165	17.670	245.2238	1.702943
						10S	.188	17.624	243.9487	1.69409
			10	.250	17.500	240.5280	1.67033			
			20	.312	17.376	237.1314	1.64675			
			STD, 40S	.375	17.250	233.7048	1.62295			
			30	.438	17.124	230.3032	1.59933			
			XS, 80S	.500	17.000	226.9799	1.57625			
			40	.562	16.876	223.6807	1.55334			
			60	.750	16.500	213.8245	1.48489			
			80	.938	16.124	204.1903	1.41799			
			100	1.156	15.688	193.2968	1.34234			
			120	1.375	15.250	182.6540	1.26843			
			140	1.562	14.876	173.8048	1.20698			
			160	1.781	14.438	163.7207	1.13695			

## Tech Talk

SIZE NPS	SIZE DN	O.D. (in.)	Schedules	Wall (in.)*	I.D. (in.)*	A <sub>int</sub> (in. <sup>2</sup> )	A <sub>int</sub> (Ft. <sup>2</sup> )			
20	500	20.000	5S	.188	19.624	302.4577	2.10040			
			10S	.218	19.564	300.6110	2.08758			
			10	.250	19.500	298.6474	2.07394			
			STD, 20, 40S	.375	19.250	291.0389	2.02110			
			XS, 30, 80S	.500	19.000	283.5285	1.96895			
			40	.594	18.812	277.9454	1.93018			
			60	.812	18.376	265.2110	1.84174			
			80	1.031	17.938	252.7188	1.75499			
			100	1.281	17.438	238.8267	1.65852			
			120	1.500	17.000	226.9799	1.57625			
			140	1.750	16.500	213.8245	1.48489			
			160	1.969	16.062	202.6230	1.40710			
			22	550	22.000	10, 10S	.250	21.500	363.0500	2.52118
STD, 20, 40S	.375	21.250				354.6561	2.46289			
XS, 30, 80S	.500	21.000				346.3603	2.40528			
40	.688	20.624				334.0683	2.31992			
60	.875	20.250				322.0621	2.23654			
80	1.125	19.750				306.3541	2.12746			
100	1.375	19.250				291.0389	2.02110			
120	1.625	18.750				276.1163	1.91747			
140	1.875	18.250				261.5865	1.81657			
160	2.125	17.750				247.4493	1.71840			
24	600	24.000				5S	.218	33.564	436.1015	3.02848
						10, 10S	.250	23.500	433.7358	3.01205
						STD, 20, 40S	.375	23.250	424.5564	2.94831
			XS, 80S	.500	23.000	415.4753	2.88524			
			30	.562	22.876	411.0074	2.85422			
			40	.688	22.624	402.0021	2.79168			
			60	.969	22.062	382.2780	2.65471			
			80	1.219	21.562	365.1469	2.53574			
			100	1.531	20.938	344.3181	2.39110			
			120	1.812	20.376	326.0824	2.26446			
			140	2.062	19.876	310.2755	2.15469			
			160	2.344	19.312	292.9166	2.03414			
			26	650	26.00	10	.312	25.376	505.7499	3.51215
STD, 40S	.375	25.250				500.7400	3.47736			
XS, 80S	.500	25.000				490.8734	3.40884			
28	700	28.00	10	.312	27.376	588.6125	4.08759			
			STD, 40S	.375	27.250	583.2067	4.05005			
			XS, 20, 80S	.500	27.000	572.5548	3.97607			
			30	.625	26.750	562.0010	3.90278			

## Tech Talk

SIZE NPS	SIZE DN	O.D. (in.)	Schedules	Wall (in.)*	I.D. (in.)*	A <sub>int</sub> (in. <sup>2</sup> )	A <sub>int</sub> (Ft. <sup>2</sup> )
30	750	30.000	10	.312	29.376	677.7583	4.70665
			STD, 40S	.375	29.250	671.9566	4.66637
			XS, 20, 80S	.500	29.000	660.5193	4.58694
			30	.625	28.750	649.1801	4.50820
32	800	32.00	10	.312	31.376	773.1872	5.36936
			STD	.375	31.250	766.9897	5.32632
			20	.500	31.000	754.7670	5.24144
			30	.625	30.750	742.6424	5.15724
			40	.688	30.624	736.5688	5.11506
34	850	34.00	10	.312	33.376	874.8993	6.07569
			STD	.375	33.250	868.3060	6.02990
			20	.500	33.000	855.2979	5.93957
			30	.625	32.750	842.3879	5.84992
			40	.688	32.624	835.9185	5.80499
36	900	36.000	10	.312	35.376	982.8946	6.82566
			STD, 40S	.375	35.250	975.9055	6.77712
			XS, 20, 80S	.500	35.000	962.1119	6.68133
42	1050	42.000	STD, 40S	.375	41.250	1,336.4029	9.28058
			XS, 80S	.500	41.000	1,320.2532	9.16842
			30	.625	40.750	1304.2016	6.05696
			40	.750	40.500	1,288.2482	8.94617
48	1200	48.000	STD, 40S	.375	47.250	1,753.4490	12.17673
			XS, 80S	.500	47.000	1,734.9431	12.04822

\*Because of differing manufacturing methods and tolerances, pipe ID and wall thickness may vary slightly from the values given.



Browse the standard pipe chart below to select the pipe dimensions and weights that meet your requirements.

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Wt/Ft = 10.69 x (OD - Wall Thickness) x Wall Thickness

**STANDARD CHART**  
Steel Pipe Sizes, Weights, Dimensions

Size	Outer Diameter	Schedule 5	Schedule 10	Schedule 20	Schedule 30	Schedule 40	Standard	Schedule 60	Schedule 80	X-Heavy	Schedule 100	Schedule 120	Schedule 140	Schedule 160	XX-Heavy
1/8	0.405	.035 .138	.049 .1863			.068 2.447	.068 2.447		.095 .3145	.095 .3145					
1/4	0.540	.049 .2570	.065 .3297			.088 .4248	.088 .4248		.119 .5351	.119 .5351					
3/8	0.675	.049 .3276	.065 .4235			.091 .5676	.091 .5676		.126 .7388	.126 .7388					
1/2	0.840	.065 .5383	.083 .6710			.109 .8510	.109 .8510		.147 1.088	.147 1.088				.187 1.304	.294 1.714
3/4	1.050	.065 .6838	.083 .8572			.113 1.131	.113 1.131		.154 1.474	.154 1.474				.218 1.937	.308 2.441
1	1.315	.065 .8678	.190 1.404			.133 1.679	.133 1.679		.179 2.172	.179 2.172				.250 2.844	.358 3.659
1 1/4	1.660	.065 1.107	.109 1.806			.140 2.273	.140 2.273		.191 2.997	.191 2.997				.250 3.765	.382 5.214
1 1/2	1.900	.065 1.274	.109 2.638			.145 2.718	.145 2.718		.200 3.631	.200 3.631				.281 4.859	.400 6.408
2	2.375	.065 1.604	.109 2.638			.154 3.653	.154 3.653		.218 5.022	.218 5.022				.343 7.444	.436 9.029
2 1/2	2.875	.083 2.475	.120 3.531			.203 5.793	.203 5.793		.276 7.661	.276 7.661				.375 10.01	.552 13.70
3	3.500	.083 3.029	.120 4.332			.216 7.576	.216 7.576		.300 10.25	.300 10.25				.437 14.32	.600 18.58
3 1/2	4.000	.083 3.472	.120 4.973			.226 9.109	.226 9.109		.318 12.51	.318 12.51					.636 22.85
4	4.500	.083 3.915	.120 5.613			.237 10.79	.237 10.79	.281 12.66	.337 14.98	.337 14.98		.437 19.01		.531 22.51	.674 27.54
4 1/2	5.000						.247 12.53			.355 17.61					.710 32.53
5	5.563	.109 6.349	.134 7.770			.258 14.62	.258 14.62		.375 20.78	.375 20.78		.500 27.04		.625 32.96	.750 38.55
6	6.625	.109 7.585	.134 9.289			.280 18.97	.280 18.97		.432 28.57	.432 28.57		.562 36.39		.718 45.30	.864 53.16
7	7.625						.301 23.57			.500 38.05					.875 63.08
8	8.625	.109 9.914	.148 13.40	.250 22.36	.277 24.70	.322 28.55	.322 28.55	.406 35.64	.500 43.39	.500 43.39	.593 50.87	.718 60.63	.812 67.76	.906 74.69	.875 72.42
9	9.625						.342 33.90			.500 48.72					
10	10.750	.134 15.19	.165 18.65	.250 28.04	.307 34.24	.365 40.48	.365 40.48	.500 54.74	.593 64.33	.500 54.74	.718 76.93	.843 89.20	1.000 104.1	1.125 115.7	
11	11.750						.375 45.55			.500 60.07					
12	12.750	.156 21.07	.180 24.20	.250 33.38	.330 43.77	.406 53.53	.375 49.56	.562 73.16	.687 88.51	.500 65.42	.843 107.2	1.000 125.5	1.125 139.7	1.312 160.3	
14	14.000	.156 23.06	.250 36.71	.312 45.68	.375 54.57	.437 63.37	.375 54.57	.593 84.91	.750 106.1	.500 72.09	.937 130.7	1.093 150.7	1.250 170.2	1.406 189.1	
16	16.000	.165 27.90	.250 42.05	.312 52.36	.375 62.58	.500 82.77	.375 62.58	.656 107.5	.843 136.5	.500 82.77	1.031 164.8	1.218 192.3	1.437 223.5	1.593 245.1	
18	18.000	.165 31.43	.250 47.39	.312 59.03	.437 82.06	.562 104.8	.375 70.59	.750 138.2	.937 170.8	.500 93.45	1.156 208.0	1.375 244.1	1.562 274.2	1.781 308.5	
20	20.000	.188 39.78	.250 52.73	.375 78.60	.500 104.1	.593 122.9	.375 78.60	.812 166.4	1.031 208.9	.500 104.1	1.280 256.1	1.500 296.4	1.750 341.1	1.968 379.0	
24	24.000	.218 55.37	.250 63.41	.375 94.62	.562 140.8	.687 171.2	.375 94.62	.968 238.1	1.218 296.4	.500 125.5	1.531 367.1	1.812 429.4	2.062 483.1	2.343 541.9	
26	26.000		.312 85.60	.500 136.2			.375 102.6			.500 136.2					
28	28.000		.312 92.26	.500 146.8	.625 182.7		.375 110.6			.500 146.8					
30	30.000	.250 79.43	.312 98.93	.500 157.5	.625 196.1		.375 118.6			.500 157.5					
32	32.000		.312 105.6	.500 168.2	.625 209.4	.688 230.1	.375 126.7			.500 168.2					
34	34.000		.344 123.7	.500 178.9	.625 222.8	.688 244.8	.375 134.7			.500 178.9					
36	36.000		.312 118.9	.500 189.6	.625 236.1	.750 282.3	.375 142.7			.500 189.6					
42	42.000						.375 166.7			.500 221.6					
48	48.000						.375 190.7			.500 253.6					