

Important Note:

When choosing a pressure drop to size the WARDFLEX® system the minimum operating pressure of the unit must be considered. Choosing a pressure drop that will reduce the supply pressure below the minimum operating pressure of the unit will cause the unit to perform poorly or not at all.

Example:

System Supply Pressure: 7 inches W.C.

Unit minimum operating pressure: 5" W.C.

The use of a 3 inch W.C. pressure drop would result in a minimum inlet pressure at the unit of 4 inches W.C. In this case an alternate pressure drop of 2 inches or less should be selected to meet the minimum operating pressure of the unit.

7.1 NATURAL GAS

Table A-1

**Maximum Capacity of WARDFLEX Corrugated Stainless Steel Tubing in Cubic Feet of Gas per Hour for:
Gas Pressure: 0.5 PSI or less Pressure Drop: 3.0 inches Water Column (Based on 0.60 specific gravity gas)***

LENGTH OF TUBING RUN	TUBING SIZE & EHD						
	10A (3/8") 15	15A (1/2") 19	20A (3/4") 25	25A (1") 30	32A (1-1/4") 37	38A (1-1/2") 48	50A (2") 62
5 feet	160	327	649	1182	2069	5014	9293
10 feet	112	231	462	828	1481	3563	6703
15 feet	90	189	379	673	1219	2917	5536
20 feet	78	164	329	580	1061	2531	4834
25 feet	69	147	295	518	953	2268	4352
30 feet	63	134	270	471	873	2073	3993
40 feet	54	116	234	407	759	1799	3487
50 feet	48	104	210	363	683	1611	3139
60 feet	44	95	192	330	625	1473	2880
80 feet	38	82	167	285	544	1278	2515
100 feet	34	73	149	254	489	1145	2264
150 feet	27	60	122	206	402	937	1870
200 feet	23	52	106	178	350	813	1633
300 feet	19	42	87	144	288	666	1348
500 feet	14	33	68	111	225	518	1060

*Table includes losses for four 90 degree bends and 2 end fittings. To compute flow capacity for tubing runs with a larger number of bends and/or fittings, add the appropriate number of feet to the actual run length using the following formula:
 $L = 1.3 (n)$ L = Numbers of feet to be added to actual run length. n = Number of bends and/or fittings over six.

NATURAL GAS

Table A-2

Maximum Capacity of WARDFLEX Corrugated Stainless Steel Tubing in Cubic Feet of Gas per Hour for:
 Gas Pressure: 0.5 PSI or less Pressure Drop: 0.5 inches Water Column (Based on 0.60 specific gravity gas)*

LENGTH OF TUBING RUN	TUBING SIZE & EHD						
	10A (3/8") 15	15A (1/2") 19	20A (3/4") 25	25A (1") 30	32A (1 1/4") 37	38A (1-1/2") 48	50A (2") 62
5 feet	63	134	270	471	873	2073	3993
10 feet	44	95	192	330	625	1473	2880
15 feet	36	77	157	268	514	1206	2379
20 feet	31	67	137	231	447	1046	2077
25 feet	27	60	122	206	402	937	1870
30 feet	25	55	112	188	368	857	1716
40 feet	21	47	97	162	320	743	1498
50 feet	19	42	87	144	288	666	1348
60 feet	17	39	80	131	263	609	1237
80 feet	15	33	69	113	230	528	1080
100 feet	13	30	62	101	206	473	972
150 feet	10	24	51	82	170	387	803
200 feet	9	21	44	71	147	336	701
300 feet	7	17	36	57	121	275	579
500 feet	5	13	28	44	94	214	455

*Table includes losses for four 90 degree bends and 2 end fittings. To compute flow capacity for tubing runs with a larger number of bends and/or fittings, add the appropriate number of feet to the actual run length using the following formula:

$$L = 1.3 (n) \quad L = \text{Numbers of feet to be added to actual run length.} \quad n = \text{Number of bends and/or fittings over six.}$$

NATURAL GAS

Table A-3

Maximum Capacity of WARDFLEX Corrugated Stainless Steel Tubing in Cubic Feet of Gas per Hour for:
 Gas Pressure: 0.5 PSI or less Pressure Drop: 6.0 inches Water Column (Based on 0.60 specific gravity gas)*

LENGTH OF TUBING RUN	TUBING SIZE & EHD						
	10A (3/8") 15	15A (1/2") 19	20A (3/4") 25	25A (1") 30	32A (1 1/4") 37	38A (1-1/2") 48	50A (2") 62
5 feet	229	461	911	1687	2889	7057	12884
10 feet	160	327	649	1182	2069	5014	9293
15 feet	130	267	532	960	1702	4106	7676
20 feet	112	231	462	828	1481	3563	6703
25 feet	99	207	414	739	1331	3192	6033
30 feet	90	189	379	673	1219	2917	5536
40 feet	78	164	329	580	1061	2531	4834
50 feet	69	147	295	518	953	2268	4352
60 feet	63	134	270	471	873	2073	3993
80 feet	54	116	234	407	759	1799	3487
100 feet	48	104	210	363	683	1611	3139
150 feet	39	85	172	294	561	1319	2592
200 feet	34	73	149	254	489	1145	2264
300 feet	27	60	122	206	402	937	1870
500 feet	21	46	95	159	315	729	1470

*Table includes losses for four 90 degree bends and 2 end fittings. To compute flow capacity for tubing runs with a larger number of bends and/or fittings, add the appropriate number of feet to the actual run length using the following formula:

$$L = 1.3 (n) \quad L = \text{Numbers of feet to be added to actual run length.} \quad n = \text{Number of bends and/or fittings over six.}$$

NATURAL GAS

Table A-4 Maximum Capacity of WARDFLEX Corrugated Stainless Steel Tubing in Cubic Feet of Gas per Hour for:
Gas Pressure: 2 P.S.I. Pressure Drop: 1 P.S.I. (Based on 0.60 specific gravity gas)*

LENGTH OF TUBING RUN	TUBING SIZE & EHD						
	10A (3/8") 15	15A (1/2") 19	20A (3/4") 25	25A (1") 30	32A (1-1/4") 37	38A (1-1/2") 48	50A (2") 62
5 feet	505	988	1926	3698	6038	15008	26511
10 feet	353	700	1372	2592	4325	10664	19122
15 feet	286	572	1125	2105	3557	8732	15795
20 feet	247	496	977	1816	3097	7578	13795
25 feet	220	444	876	1620	2782	6788	12415
30 feet	200	405	801	1475	2547	6205	11392
40 feet	172	351	696	1273	2218	5384	9948
50 feet	154	314	624	1135	1992	4823	8954
60 feet	140	287	571	1034	1825	4409	8217
80 feet	120	249	496	892	1589	3826	7175
100 feet	107	222	445	795	1427	3427	6459
150 feet	87	182	364	646	1173	2806	5335
200 feet	75	157	317	557	1022	2435	4658
300 feet	61	129	260	453	840	1994	3848
500 feet	46	100	202	348	657	1550	3024

*Table includes losses for four 90 degree bends and 2 end fittings. To compute flow capacity for tubing runs with a larger number of bends and/or fittings, add the appropriate number of feet to the actual run length using the following formula:

$$L = 1.3 (n) \quad L = \text{Numbers of feet to be added to actual run length.} \quad n = \text{Number of bends and/or fittings over six.}$$

NATURAL GAS

Table A-5 Maximum Capacity of WARDFLEX Corrugated Stainless Steel Tubing in Cubic Feet of Gas per Hour for:
Gas Pressure: 2 P.S.I. Pressure Drop: 1.5 P.S.I. (Based on 0.60 specific gravity gas)*

LENGTH OF TUBING RUN	TUBING SIZE & EHD						
	10A (3/8") 15	15A (1/2") 19	20A (3/4") 25	25A (1") 30	32A (1-1/4") 37	38A (1-1/2") 48	50A (2") 62
5 feet	623	1209	2348	4553	7340	18329	32095
10 feet	435	856	1673	3191	5257	13024	23149
15 feet	353	700	1372	2592	4325	10664	19122
20 feet	304	607	1192	2236	3765	9254	16697
25 feet	271	543	1068	1994	3381	8290	15030
30 feet	247	496	977	1816	3097	7578	13792
40 feet	213	430	849	1567	2696	6576	12043
50 feet	189	384	761	1398	2422	5891	10840
60 feet	172	351	696	1273	2218	5384	9948
80 feet	148	304	605	1098	1931	4672	8686
100 feet	132	272	542	979	1734	4186	7819
150 feet	107	222	445	795	1427	3427	6459
200 feet	92	193	386	686	1242	2974	5639
300 feet	75	157	317	557	1022	2435	4658
500 feet	57	122	246	429	799	1893	3661

*Table includes losses for four 90 degree bends and 2 end fittings. To compute flow capacity for tubing runs with a larger number of bends and/or fittings, add the appropriate number of feet to the actual run length using the following formula:

$$L = 1.3 (n) \quad L = \text{Numbers of feet to be added to actual run length.} \quad n = \text{Number of bends and/or fittings over six.}$$

NATURAL GAS

Table A-6 Maximum Capacity of WARDFLEX Corrugated Stainless Steel Tubing in Cubic Feet of Gas per Hour for:
Gas Pressure: 5 P.S.I. Pressure Drop: 3.5 P.S.I. (Based on 0.60 specific gravity gas)*

LENGTH OF TUBING RUN	TUBING SIZE & EHD						
	10A (3/8") 15	15A (1/2") 19	20A (3/4") 25	25A (1") 30	32A (1-1/4") 37	38A (1-1/2") 48	50A (2") 62
5 feet	965	1842	3554	7030	11040	27832	47851
10 feet	675	1305	2532	4927	7906	19776	34514
15 feet	547	1067	2076	4002	6504	16193	28509
20 feet	472	925	1804	3453	5662	14052	24894
25 feet	420	827	1617	3080	5085	12588	22408
30 feet	382	756	1479	2805	4658	11506	20563
40 feet	330	655	1285	2420	4055	9985	17955
50 feet	294	586	1152	2158	3642	8945	16163
60 feet	267	535	1054	1966	3336	8176	14831
80 feet	230	464	915	1696	2904	7095	12951
100 feet	205	415	821	1513	2608	6356	11658
150 feet	166	339	673	1229	2146	5204	9629
200 feet	143	294	585	1060	1868	4516	8408
300 feet	116	240	479	861	1537	3698	6945
500 feet	89	186	373	662	1201	2875	5459

*Table includes losses for four 90 degree bends and 2 end fittings. To compute flow capacity for tubing runs with a larger number of bends and/or fittings, add the appropriate number of feet to the actual run length using the following formula:

$$L = 1.3(n) \quad L = \text{Numbers of feet to be added to actual run length.} \quad n = \text{Number of bends and/or fittings over six.}$$

NATURAL GAS

Table A-7 Maximum Capacity of WARDFLEX Corrugated Stainless Steel Tubing in Cubic Feet of Gas per Hour for:
Gas Pressure: 0.5 P.S.I. or less Pressure Drop: 1 Inches W.C. (Based on 0.60 specific gravity gas)*

LENGTH OF TUBING RUN	TUBING SIZE & EHD						
	10A (3/8") 15	15A (1/2") 19	20A (3/4") 25	25A (1") 30	32A (1-1/4") 37	38A (1-1/2") 48	50A (2") 62
5 feet	90	189	379	673	1219	2917	5536
10 feet	63	134	270	471	873	2073	3993
15 feet	51	109	221	383	718	1697	3298
20 feet	44	95	192	330	625	1473	2880
25 feet	39	85	172	294	561	1319	2592
30 feet	36	77	157	268	514	1206	2379
40 feet	31	67	137	231	447	1046	2077
50 feet	27	60	122	206	402	937	1870
60 feet	25	55	112	188	368	857	1716
80 feet	21	47	97	162	320	743	1498
100 feet	19	42	87	144	288	666	1348
150 feet	15	34	71	117	237	545	1114
200 feet	13	30	62	101	206	473	972
300 feet	10	24	51	82	170	387	803
500 feet	8	19	39	63	132	301	631

*Table includes losses for four 90 degree bends and 2 end fittings. To compute flow capacity for tubing runs with a larger number of bends and/or fittings, add the appropriate number of feet to the actual run length using the following formula:

$$L = 1.3(n) \quad L = \text{Numbers of feet to be added to actual run length.} \quad n = \text{Number of bends and/or fittings over six.}$$

NATURAL GAS

Table A-14

Maximum Capacity of WARDFLEX Corrugated Stainless Steel Tubing in Cubic Feet of Gas per Hour for:
 Gas Pressure: 0.5 P.S.I. or less Pressure Drop: 2 Inches W.C. (Based on 0.60 specific gravity gas)*

LENGTH OF TUBING RUN	TUBING SIZE & EHD						
	10A (3/8") 15	15A (1/2") 19	20A (3/4") 25	25A (1") 30	32A (1-1/4") 37	38A (1-1/2") 48	50A (2") 62
5 feet	130	267	532	960	1702	4106	7676
10 feet	80	189	379	673	1219	2917	5536
15 feet	73	154	311	546	1003	2389	4573
20 feet	63	134	270	471	873	2073	3993
25 feet	56	120	242	420	784	1857	3594
30 feet	51	109	211	383	718	1697	3298
40 feet	44	95	192	330	625	1473	2880
50 feet	39	85	172	294	561	1319	2592
60 feet	36	77	157	268	514	1206	2379
80 feet	31	67	137	231	447	1046	2077
100 feet	27	60	122	206	402	937	1870
150 feet	22	49	100	167	331	767	1544
200 feet	19	42	87	144	288	666	1348
300 feet	15	34	71	117	237	545	1114
500 feet	12	27	55	90	185	424	875

*Table includes losses for four 90 degree bends and 2 end fittings. To compute flow capacity for tubing runs with a larger number of bends and/or fittings, add the appropriate number of feet to the actual run length using the following formula:

$$L = 1.3 (n) \quad L = \text{Numbers of feet to be added to actual run length.} \quad n = \text{Number of bends and/or fittings over six.}$$

NATURAL GAS

Table A-15

Maximum Capacity of WARDFLEX Corrugated Stainless Steel Tubing in Cubic Feet of Gas per Hour for:
 Gas Pressure: 0.5 P.S.I. or less Pressure Drop: 1 Inches W.C. (Based on 0.60 specific gravity gas)*

LENGTH OF TUBING RUN	TUBING SIZE & EHD						
	10A (3/8") 15	15A (1/2") 19	20A (3/4") 25	25A (1") 30	32A (1-1/4") 37	38A (1-1/2") 48	50A (2") 62
5 feet	90	189	379	673	1219	2917	5536
10 feet	63	134	270	471	873	2073	3993
15 feet	51	109	221	383	718	1697	3298
20 feet	44	95	192	330	625	1473	2880
25 feet	39	85	172	294	561	1319	2592
30 feet	36	77	157	268	514	1206	2379
40 feet	31	67	137	231	447	1046	2077
50 feet	27	60	122	206	402	937	1870
60 feet	25	55	112	188	368	857	1716
80 feet	21	47	97	162	320	743	1498
100 feet	19	42	87	144	288	666	1348
150 feet	15	34	71	117	237	545	1114
200 feet	13	30	62	101	206	473	972
300 feet	10	24	51	82	170	387	803
500 feet	8	19	39	63	132	301	631

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Table A-8 Maximum Capacity of WARDFLEX Corrugated Stainless Steel Tubing in KBTU per Hour for:
Gas Pressure: 0.5 PSI or less Pressure Drop: 0.5 Inches W.C. (Based on 1.52 specific gravity gas)*

LENGTH OF TUBING RUN	TUBING SIZE & EHD						
	10A (3/8") 15	15A (1/2") 19	20A (3/4") 25	25A (1") 30	32A (1-1/4") 37	38A (1-1/2") 48	50A (2") 62
5 feet	100	212	427	745	1380	3277	6312
10 feet	70	150	304	522	988	2328	4553
15 feet	57	122	248	424	812	1906	3761
20 feet	49	106	217	365	707	1653	3283
25 feet	43	95	193	326	635	1481	2956
30 feet	40	87	177	297	582	1355	2713
40 feet	33	74	153	256	506	1175	2368
50 feet	30	66	138	228	455	1053	2131
60 feet	27	62	126	207	416	963	1955
80 feet	24	52	109	179	363	835	1707
100 feet	21	47	98	160	325	748	1536
150 feet	16	38	81	130	268	612	1269
200 feet	14	33	70	112	233	531	1108
300 feet	11	27	57	90	191	435	915
500 feet	8	21	44	70	149	338	719

*Table includes losses for four 90 degree bends and 2 end fittings. To compute flow capacity for tubing runs with a larger number of bends and/or fittings, add the appropriate number of feet to the actual run length using the following formula:
 $L = 1.3(n)$ L = Numbers of feet to be added to actual run length. n = Number of bends and/or fittings over six.

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Table A-9 Maximum Capacity of WARDFLEX Corrugated Stainless Steel Tubing in KBTU per Hour for:
Gas Pressure: 2 P.S.I. Pressure Drop: 1 P.S.I. (Based on 1.52 specific gravity gas)*

LENGTH OF TUBING RUN	TUBING SIZE & EHD						
	10A (3/8") 15	15A (1/2") 19	20A (3/4") 25	25A (1") 30	32A (1-1/4") 37	38A (1-1/2") 48	50A (2") 62
5 feet	798	1562	3045	5846	9545	23724	41907
10 feet	558	1107	2169	4097	6837	16857	30227
15 feet	452	904	1778	3327	5623	13803	24968
20 feet	390	784	1544	2871	4896	11979	21802
25 feet	348	702	1385	2561	4397	10730	19625
30 feet	316	640	1266	2332	4027	9809	18008
40 feet	272	555	1100	2012	3507	8511	15725
50 feet	243	496	986	1794	3149	7624	14154
60 feet	221	454	903	1635	2884	6970	12989
80 feet	190	394	784	1410	2511	6048	11342
100 feet	169	351	703	1257	2256	5417	10210
150 feet	138	288	575	1021	1855	4436	8433
200 feet	119	248	501	880	1616	3849	7363
300 feet	96	204	411	716	1328	3152	6083
500 feet	73	158	319	550	1039	2450	4780

*Table includes losses for four 90 degree bends and 2 end fittings. To compute flow capacity for tubing runs with a larger number of bends and/or fittings, add the appropriate number of feet to the actual run length using the following formula:
 $L = 1.3(n)$ L = Numbers of feet to be added to actual run length. n = Number of bends and/or fittings over six.

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Table A-10

Maximum Capacity of WARDFLEX Corrugated Stainless Steel Tubing in KBTU per Hour for:
 Gas Pressure: 5 P.S.I. Pressure Drop: 3.5 P.S.I. (Based on 1.52 specific gravity gas)*

LENGTH OF TUBING RUN	TUBING SIZE & EHD						
	10A (3/8") 15	15A (1/2") 19	20A (3/4") 25	25A (1") 30	32A (1-1/4") 37	38A (1-1/2") 48	50A (2") 62
5 feet	1525	2912	5618	11113	17451	43996	75641
10 feet	1067	2063	4002	7788	12498	31261	54558
15 feet	865	1687	3282	6326	10281	25597	45066
20 feet	746	1462	2852	5458	8951	22213	39351
25 feet	664	1307	2556	4869	8038	19899	35422
30 feet	604	1195	2338	4434	7363	18188	32505
40 feet	522	1035	2031	3825	6410	15784	28382
50 feet	465	926	1821	3411	5757	14140	25550
60 feet	422	846	1666	3108	5273	12924	23444
80 feet	364	733	1446	2681	4591	11215	20472
100 feet	324	656	1298	2392	4123	10047	18428
150 feet	262	536	1064	1943	3392	8226	15221
200 feet	226	465	925	1676	2953	7139	13291
300 feet	183	379	757	1361	2429	5846	10978
500 feet	141	294	590	1046	1899	4545	8629

*Table includes losses for four 90 degree bends and 2 end fittings. To compute flow capacity for tubing runs with a larger number of bends and/or fittings, add the appropriate number of feet to the actual run length using the following formula:
 $L = 1.3 (n)$ L = Numbers of feet to be added to actual run length. n = Number of bends and/or fittings over six.

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Table A-11

Maximum Capacity of WARDFLEX Corrugated Stainless Steel Tubing in KBTU per Hour for:
 Gas Pressure: 0.5 PSI or less Pressure Drop: 3 Inches W.C. (Based on 1.52 specific gravity gas)*

LENGTH OF TUBING RUN	TUBING SIZE & EHD						
	10A (3/8") 15	15A (1/2") 19	20A (3/4") 25	25A (1") 30	32A (1-1/4") 37	38A (1-1/2") 48	50A (2") 62
5 feet	253	517	1026	1868	3270	7926	14690
10 feet	177	365	730	1309	2342	5632	10596
15 feet	142	299	599	1064	1927	4611	8751
20 feet	123	259	520	917	1678	4001	7641
25 feet	109	232	466	819	1507	3585	6879
30 feet	100	212	427	745	1380	3277	6312
40 feet	85	183	370	643	1201	2844	5512
50 feet	76	164	332	574	1079	2547	4962
60 feet	70	150	304	522	988	2328	4553
80 feet	60	130	264	451	860	2020	3976
100 feet	54	115	236	402	773	1810	3579
150 feet	43	95	193	326	635	1481	2956
200 feet	36	82	168	281	553	1285	2581
300 feet	30	66	138	228	455	1053	2131
500 feet	22	52	107	175	355	819	1676

*Table includes losses for four 90 degree bends and 2 end fittings. To compute flow capacity for tubing runs with a larger number of bends and/or fittings, add the appropriate number of feet to the actual run length using the following formula:
 $L = 1.3 (n)$ L = Numbers of feet to be added to actual run length. n = Number of bends and/or fittings over six.

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Table A-12

Maximum Capacity of WARDFLEX Corrugated Stainless Steel Tubing in KBTU per Hour for:
 Gas Pressure: 0.5 PSI or less Pressure Drop: 6 Inches W.C. (Based on 1.52 specific gravity gas)*

LENGTH OF TUBING RUN	TUBING SIZE & EHD						
	10A (3/8") 15	15A (1/2") 19	20A (3/4") 25	25A (1") 30	32A (1-1/4") 37	38A (1-1/2") 48	50A (2") 62
5 feet	362	729	1440	2667	4567	11155	20366
10 feet	253	517	1026	1868	3270	7926	14690
15 feet	205	422	841	1518	2691	6491	12134
20 feet	177	365	730	1309	2342	5632	10596
25 feet	156	327	654	1168	2104	5046	9537
30 feet	142	299	599	1064	1927	4611	8751
40 feet	123	259	520	917	1678	4001	7641
50 feet	109	232	466	819	1507	3585	6879
60 feet	100	212	427	745	1380	3277	6312
80 feet	85	183	370	643	1201	2844	5512
100 feet	76	164	332	574	1079	2547	4962
150 feet	62	134	272	465	887	2085	4097
200 feet	54	115	236	402	773	1810	3579
300 feet	43	95	193	326	635	1481	2956
500 feet	33	73	150	251	497	1152	2324

*Table includes losses for four 90 degree bends and 2 end fittings. To compute flow capacity for tubing runs with a larger number of bends and/or fittings, add the appropriate number of feet to the actual run length using the following formula:
 L = 1.3 (n) L = Numbers of feet to be added to actual run length. n = Number of bends and/or fittings over six.

7.2 STEEL PIPE CAPACITIES

Table A-13

Maximum Capacity of WARDFLEX Sch 40 steel pipe in Cubic Feet of Gas per Hour for:
 Gas Pressure: 0.5 P.S.I. or less Pressure Drop: 0.5 Inches W.C. (Based on 0.60 specific gravity gas)*

LENGTH OF PIPE	NOMINAL IRON PIPE SIZE AND INTERNAL DIAMETER (inches)										
	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
10 feet	43	95	175	360	680	1,400	2,100	3,950	6,300	11,000	23,000
20 feet	29	65	120	250	465	950	1,460	2,750	4,350	7,700	15,800
30 feet	24	52	97	200	375	770	1,180	2,200	3,520	6,250	12,800
40 feet	20	45	82	170	320	660	990	1,900	3,000	5,300	10,900
50 feet	18	40	73	151	285	580	900	1,680	2,650	4,750	9,700
60 feet	16	36	66	138	260	530	810	1,520	2,400	4,300	8,800
70 feet	15	33	61	125	240	490	750	1,400	2,250	3,900	8,100
80 feet	14	31	57	118	220	460	690	1,300	2,050	3,700	7,500
90 feet	13	29	53	110	205	430	650	1,220	1,950	3,450	7,200
100 feet	12	27	50	103	195	400	620	1,150	1,850	3,250	6,700
125 feet	11	24	44	93	175	360	550	1,020	1,650	2,950	6,000
150 feet	10	22	40	84	160	325	500	950	1,500	2,650	5,500
175 feet	9	20	37	77	145	300	460	850	1,370	2,450	5,000
200 feet	8	19	35	72	135	280	430	800	1,280	2,280	4,600