1/2" SPACING

Duct Size		Nom	Core	Core Velocity		300			400			500			600			700			800			900			1000		
Nom Width W	Nom Height H	Duct ft2	Area ft2	Ps	0°	0.01			0.02			0.03			0.04			0.06			0.08			0.10			0.12		
					22.5°	0.02			0.03			0.04			0.06			0.09			0.11			0.14			0.17		
					45°	0.02			0.04			0.06			0.09			0.12			0.15			0.20			0.24		
8	4	0.22	0.17	CFM		50			70			80			100			120			130			150			170		
				NC		<20			<20			<20			<20			21			25			29			32		
				Throw	0°	5	8	14	7	11	17	8	13	18	11	14	20	13	15	22	13	16	23	14	17	24	15	18	26
					22.5°	4	6	10	5	8	12	6	9	13	8	10	14	9	11	16	9	12	17	10	12	17	11	13	19
					45°	3	4	8	4	6	9	4	7	10	6	8	11	7	8	12	7	9	13	8	9	13	8	10	14
6	6	0.25	0.20	CFM		60			80			100			120			140			160			180			200		
				NC		<20			<20			<20			<20			22			26			29			32		
				Throw	0°	6	9	15	8	12	18	10	14	20	12	15	22	14	17	23	14	18	25	15	19	27	16	20	28
					22.5°	4	6	11	6	9	13	7	10	14	9	11	16	10	12	17	10	13	18	11	14	19	12	14	20
					45°	3	5	8	4	7	10	6	8	11	7	8	12	8	9	13	8	10	14	8	10	15	9	11	15
8	6	0.33	0.27	CFM		80			110			130			160			190			220			240			270		
				NC		<20			<20			<20			<20			23			27			31			34		
				Throw	0°	7	10	18	9	14	21	11	16	23	13	18	25	16	19	27	17	21	29	18	22	31	19	23	33
					22.5°	5	7	13	6	10	15	8	12	17	9	13	18	12	14	19	12	15	21	13	16	22	14	17	24
					45°	4	6	10	5	8	12	6	9	13	7	10	14	9	10	15	9	12	16	10	12	17	10	13	18
8	8	0.44	0.37	CFM		110			150			190			220			260			300			330			370		
				NC		<20			<20			<20			20			25			29			32			35		
				Throw	0°	8	12	21	11	16	24	14	19	27	16	21	29	18	23	32	20	24	34	21	25	36	22	27	38
					22.5°	6	9	15	8	12	17	10	14	19	12	15	21	13	17	23	14	17	24	15	18	26	16	19	27
					45°	4	7	12	6	9	13	8	10	15	9	12	16	10	13	18	11	13	19	12	14	20	12	15	21
12	6	0.50	0.42	CFM		130			170			210			250			290			330			380			420		
				NC		<20			<20			<20			21			25			29			32			35		
				Throw	0°	9	13	23	11	17	26	14	20	29	17	22	31	19	24	34	21	25	36	22	27	39	23	29	41
					22.5°	6	9	17	8	12	19	10	14	21	12	16	22	14	17	24	15	18	26	16	19	28	17	21	30
					45°	5	7	13	6	9	14	8	11	16	9	12	17	10	13	19	12	14	20	12	15	21	13	16	23
10	10	0.69	0.60	CFM		180			240			300			360			420			480			540			600		
				NC		<20			<20			<20			22			27			31			34			37		
				Throw	0°	10	15	27	13	20	31	17	24	34	20	27	38	23	29	41	25	31	43	27	33	46	28	34	48
					22.5°	7	11	19	9	14	22	12	17	24	14	19	27	17	21	30	18	22	31	19	24	33	20	24	35
					45°	6	8	15	7	11	17	9	13	19	11	15	21	13	16	23	14	17	24	15	18	25	15	19	26
14	8	0.78	0.68	CFM		200			270			340			410			470			540			610			680		
				NC		<20			<20			<20			23			27			31			35			38		
				Throw	0°	11	16	28	14	21	33	18	26	37	22	28	40	25	30	43	27	33	46	28	35	49	30	37	52
					22.5°	8	12	20	10	15	24	13	19	27	16	20	29	18	22	31	19	24	33	20	25	35	22	27	37
					45°	6	9	15	8	12	18	10	14	20	12	15	22	14	17	24	15	18	25	15	19	27	17	20	29
12	12	1.00	0.89	CFM		270			360			440			530			620			710			800			890		
				NC		<20			<20			<20			24			28			32			36			39		
				Throw	0°	12	19	33	17	25	38	20	29	42	24	32	46	28	35	49	30	37	53	32	40	56	34	42	59
					22.5°	9	14	24	12	18	27	14	21	30	17	23	33	20	25	35	22	27	38	23	29	40	24	30	42
					45°	7	10	18	9	14	21	11	16	23	13	18	25	15	19	27	17	20	29	18	22	31	19	23	32
16	10	1.11	0.99	CFM		300			400			500			590			690			790			890			990		
				NC		<20			<20			<20			25			29			33			36			39		
				Throw	0°	13	20	34	18	26	40	22	31	44	26	34	48	30	37	52	32	39	56	34	42	59	36	44	62
					22.5°	9	14	24	13	19	29	16	22	32	19	24	35	22	27	37	23	28	40	24	30	42	26	32	45
					45°	7	11	19	10	14	22	12	17	24	14	19	26	17	20	29	18	21	31	19	23	32	20	24	34
22	8	1.22	1.08	CFM		320			430			540			650			760			870			970			1080		
				NC		<20			<20			20			25			29			33			37			40		
				Throw	0°	13	20	35	18	27	41	23	33	46	27	36	50	32	39	55	34	41	58	36	44	62	38	46	65
					22.5°	9	14	25	13	19	30	17	24	33	19	26	36	23	28	40	24	30	42	26	32	45	27	33	47
					45°	7	11	19	10	15	23	13	18	25	15	20	28	18	21	30	19	23	32	20	24	34	21	25	36
20	12	1.67	1.52	CFM		460			610			760			910			1060			1210			1370			1520		
				NC		<20			<20			21			26			31			35			38			41		
				Throw	0°	16	24	42	22	32	49	27	39	55	32	42	60	37	46	64	40	49	69	42	52	73	45	55	77
					22.5°	12	17	30	16	23	35	19	28	40	23	30	43	27	33	46	29	35	50	30	37	53	32	40	55
					45°	9	13	23	12	18	27	15	21	30	18	23	33	20	25	35	22	27	38	23	29	40	25	30	42
24	12	2.00	1.83	CFM		550			730			920			1100			1280			1470			1650			1830		
				NC		<20			<20			22			27			32			35			39			42		
				Throw	0°	18	27	46	23	35	53	30	42	60	35	46	66	41	50	71	44	54	76	46	57	80	49	60	85
					22.5°	13	19	33	17	25	38	22	30	43	25	33	48	30	36	51	32	39	55	33	41	58	35	43	61
					45°	10	15	25	13	19	29	17	23	33	19	25	36	23	28	39	24	30	42	25	31	44	27	33	47
22	16	2.44	2.27	CFM		680			910			1130			1360			1590			1810			2040			2270		
				NC		<20			<20			23			28			33			36			40			43		
				Throw	0°	20	30	52	26	39	60	33	47	67	39	52	73	46	56	79	49	60	84	52	63	89	54	67	94
					22.5°	14	22	37	19	28	43	24	34	48	28	37	53	33	40	57	35	43	60	37	45	64	39	48	68
					45°	11	17	29	14	21	33	18	26	37	21	29	40	25	31	43	27	33	46	29	35	49	30	37	52

Test Standard
- ANSI / ASHRAE standard 70
- Isothermal air used during testing. For large grilles with a cooling differential, the drop of the air stream should be evaluated.
- Data includes opposed blade volume control damper in full open position.

Throw
- The numbers shown are throw distances, in feet, measured along the jet trajectory axis relating to terminal velocities of 150,100, & 50 fpm, with the jet attached to the ceiling surface. For exposed duct installation with free, unattached jet, multiple throw distance in table x .70
- 0°, 22.5°,45° represent the blade deflection or spread angle settings
- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream.

Opposed Blade Volume Control Dampers (OBD)
- Data shown includes OBD (wide open)
- Without damper, reduce NC -3
- Without damper, reduce P_S x .75

Sound Levels
- NC shown is for 0° blade angle setting and is noise criteria curve that will not be exceeded at the operating point. This is determined by assuming a 10dB (ref: 10^{-12} watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands. For 22.5° blade angle setting, add 2 NC to the tabulated value shown. For for 45° blade angle setting, add 6 NC to the tabulated value shown.

Neck Velocity, Core Velocity
- Feet per minute

Pressure
- P_S represents static pressure, inches of water

1/2" SPACING

Duct Size		Nom	Core	Core Velocity		300			400			500			600			700			800			900			1000		
Nom Width W	Nom Height H	Duct ft2	Area ft2	Ps	0°	0.01			0.02			0.03			0.04			0.06			0.08			0.10			0.12		
					22.5°	0.02			0.03			0.04			0.06			0.09			0.11			0.14			0.17		
					45°	0.02			0.04			0.06			0.09			0.12			0.15			0.20			0.24		
24	18	3.00	2.80	CFM		840			1120			1400			1680			1960			2240			2520			2800		
				NC		<20			<20			24			29			33			37			41			44		
				Throw	0°	22	33	57	29	44	66	36	52	74	44	57	81	51	62	88	54	66	94	57	70	99	60	74	105
					22.5°	16	24	41	21	32	48	26	37	53	32	41	58	37	45	63	39	48	68	41	50	71	43	53	76
					45°	12	18	31	16	24	36	20	29	41	24	31	45	28	34	48	30	36	52	31	39	54	33	41	58
22	22	3.36	3.15	CFM		950			1260			1580			1890			2210			2520			2840			3150		
				NC		<20			<20			24			30			34			38			41			44		
				Throw	0°	23	35	61	31	46	70	39	56	79	46	61	86	54	66	93	57	70	99	61	75	106	64	79	111
					22.5°	17	25	44	22	33	50	28	40	57	33	44	62	39	48	67	41	50	71	44	54	76	46	57	80
					45°	13	19	34	17	25	39	21	31	43	25	34	47	30	36	51	31	39	54	34	41	58	35	43	61
24	24	4.00	3.77	CFM		1130			1510			1890			2260			2640			3020			3400			3770		
				NC		<20			<20			25			30			35			39			42			45		
				Throw	0°	25	38	67	34	51	77	42	61	86	51	67	94	59	72	102	63	77	109	67	82	115	70	86	122
					22.5°	18	27	48	24	37	55	30	44	62	37	48	68	42	52	73	45	55	78	48	59	83	50	62	88
					45°	14	21	37	19	28	42	23	34	47	28	37	52	32	40	56	35	42	60	37	45	63	39	47	67
28	22	4.28	4.04	CFM		1210			1620			2020			2430			2830			3230			3640			4040		
				NC		<20			<20			25			31			35			39			42			45		
				Throw	0°	26	39	69	35	53	80	44	63	89	53	69	98	61	74	105	65	80	113	69	84	119	73	89	126
					22.5°	19	28	50	25	38	58	32	45	64	38	50	71	44	53	76	47	58	81	50	60	86	53	64	91
					45°	14	21	38	19	29	44	24	35	49	29	38	54	34	41	58	36	44	62	38	46	65	40	49	69
36	18	4.50	4.25	CFM		1270			1700			2120			2550			2970			3400			3820			4250		
				NC		<20			<20			26			31			35			39			43			46		
				Throw	0°	27	40	71	36	54	82	45	64	91	54	71	100	62	76	108	67	82	115	71	87	122	75	91	129
					22.5°	19	29	51	26	39	59	32	46	66	39	51	72	45	55	78	48	59	83	51	63	88	54	66	93
					45°	15	22	39	20	30	45	25	35	50	30	39	55	34	42	59	37	45	63	39	48	67	41	50	71
32	22	4.89	4.63	CFM		1390			1850			2320			2780			3240			3710			4170			4630		
				NC		<20			20			26			31			36			40			43			46		
				Throw	0°	28	42	74	37	56	85	47	67	95	56	74	104	65	80	113	70	85	121	74	90	128	78	95	135
					22.5°	20	30	53	27	40	61	34	48	68	40	53	75	47	58	81	50	61	87	53	65	92	56	68	97
					45°	15	23	41	20	31	47	26	37	52	31	41	57	36	44	62	39	47	67	41	50	70	43	52	74
30	24	5.00	4.75	CFM		1420			1900			2370			2850			3320			3800			4270			4750		
				NC		<20			20			26			31			36			40			43			46		
				Throw	0°	28	43	75	38	57	86	47	68	96	57	75	106	66	81	114	70	86	122	75	91	129	79	96	136
					22.5°	20	31	54	27	41	62	34	49	69	41	54	76	48	58	82	50	62	88	54	66	93	57	69	98
					45°	15	24	41	21	31	47	26	37	53	31	41	58	36	45	63	39	47	67	41	50	71	43	53	75
34	22	5.19	4.93	CFM		1480			1970			2470			2960			3450			3940			4440			4930		
				NC		<20			20			26			31			36			40			43			46		
				Throw	0°	29	43	76	39	58	88	48	70	98	58	76	108	67	82	116	72	88	124	76	93	132	80	98	139
					22.5°	21	31	55	28	42	63	35	50	71	42	55	78	48	59	84	52	63	89	55	67	95	58	71	100
					45°	16	24	42	21	32	48	26	39	54	32	42	59	37	45	64	40	48	68	42	51	73	44	54	76
40	20	5.56	5.27	CFM		1580			2110			2640			3160			3690			4220			4740			5270		
				NC		<20			20			27			32			36			40			43			47		
				Throw	0°	30	45	79	40	60	91	50	72	102	60	79	111	69	85	120	74	91	129	79	96	136	83	102	144
					22.5°	22	32	57	29	43	66	36	52	73	43	57	80	50	61	86	53	66	93	57	69	98	60	73	104
					45°	17	25	43	22	33	50	28	40	56	33	43	61	38	47	66	41	50	71	43	53	75	46	56	79
36	24	6.00	5.72	CFM		1710			2290			2860			3430			4000			4570			5140			5720		
				NC		<20			20			27			32			37			40			44			47		
				Throw	0°	31	47	82	42	62	95	52	75	106	62	82	116	72	89	125	77	95	134	82	100	142	86	106	150
					22.5°	22	34	59	30	45	68	37	54	76	45	59	84	52	64	90	55	68	96	59	72	102	62	76	108
					45°	17	26	45	23	34	52	29	41	58	34	45	64	40	49	69	42	52	74	45	55	78	47	58	83
30	30	6.25	5.97	CFM		1790			2390			2980			3580			4180			4770			5370			5970		
				NC		<20			21			27			32			37			41			44			47		
				Throw	0°	32	48	84	43	64	97	53	76	108	64	84	118	74	91	128	79	97	137	84	103	145	88	108	153
					22.5°	23	35	60	31	46	70	38	55	78	46	60	85	53	66	92	57	70	99	60	74	104	63	78	110
					45°	18	26	46	24	35	53	29	42	59	35	46	65	41	50	70	43	53	75	46	57	80	48	59	84
36	26	6.50	6.21	CFM		1860			2480			3100			3720			4340			4970			5590			6210		
				NC		<20			21			27			32			37			41			44			47		
				Throw	0°	32	49	85	43	65	99	54	78	110	65	85	121	75	92	130	81	99	140	85	105	148	90	110	156
					22.5°	23	35	61	31	47	71	39	56	79	47	61	87	54	66	94	58	71	101	61	76	107	65	79	112
					45°	18	27	47	24	36	54	30	43	61	36	47	67	41	51	72	45	54	77	47	58	81	50	61	86
32	32	7.11	6.81	CFM		2040			2720			3400			4090			4770			5450			6130			6810		
				NC		<20			21			28			33			37			41			45			48		
				Throw	0°	34	51	89	45	68	103	57	82	115	68	90	127	79	97	137	84	103	146	89	110	155	94	116	163
					22.5°	24	37	64	32	49	74	41	59	83	49	65	91	57	70	99	60	74	105	64	79	112	68	84	117
					45°	19	28	49	25	37	57	31	45	63	37	50	70	43	53	75	46	57	80	49	61	85	52	64	90

Test Standard
- ANSI / ASHRAE standard 70
- Isothermal air used during testing. For large grilles with a cooling differential, the drop of the air stream should be evaluated.
- Data includes opposed blade volume control damper in full open position.

Throw
- The numbers shown are throw distances, in feet, measured along the jet trajectory axis relating to terminal velocities of 150,100, & 50 fpm, with the jet attached to the ceiling surface. For exposed duct installation with free, unattached jet, multiple throw distance in table x .70
- 0°, 22.5°,45° represent the blade deflection or spread angle settings
- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream.

Opposed Blade Volume Control Dampers (OBD)
- Data shown includes OBD (wide open)
- Without damper, reduce NC -3
- Without damper, reduce P_S x .75

Sound Levels
- NC shown is for 0° blade angle setting and is noise criteria curve that will not be exceeded at the operating point. This is determined by assuming a 10dB (ref: 10^{-12} watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands. For 22.5° blade angle setting, add 2 NC to the tabulated value shown. For for 45° blade angle setting, add 6 NC to the tabulated value shown.

Neck Velocity, Core Velocity
- Feet per minute

Pressure
- P_S represents static pressure, inches of water

1/2" SPACING

Duct Size Nom Width W	Duct Size Nom Height H	Nom Duct Area ft2	Core Area ft2	Core Velocity		300			400			500			600			700			800			900			1000		
				Ps	0°	0.01			0.02			0.03			0.04			0.06			0.08			0.10			0.12		
					22.5°	0.02			0.03			0.04			0.06			0.09			0.11			0.14			0.17		
					45°	0.02			0.04			0.06			0.09			0.12			0.15			0.20			0.24		
36	30	7.50	7.19	CFM		2160			2880			3590			4310			5030			5750			6470			7190		
				NC		<20			21			28			33			38			41			45			48		
				Throw	0°	35	53	92	47	70	106	58	84	119	70	92	130	81	99	140	87	106	150	92	113	159	97	119	168
					22.5°	25	38	66	34	50	76	42	60	86	50	66	94	58	71	101	63	76	108	66	81	114	70	86	121
					45°	19	29	51	26	39	58	32	46	65	39	51	72	45	54	77	48	58	83	51	62	87	53	65	92
38	30	7.92	7.60	CFM		2280			3040			3800			4560			5320			6080			6840			7600		
				NC		<20			22			28			33			38			42			45			48		
				Throw	0°	36	54	95	48	72	109	60	86	122	72	95	134	83	102	144	89	109	154	95	116	164	100	122	173
					22.5°	26	39	68	35	52	78	43	62	88	52	68	96	60	73	104	64	78	111	68	84	118	72	88	125
					45°	20	30	52	26	40	60	33	47	67	40	52	74	46	56	79	49	60	85	52	64	90	55	67	95
48	24	8.00	7.66	CFM		2300			3060			3830			4600			5360			6130			6890			7660		
				NC		<20			22			28			33			38			42			45			48		
				Throw	0°	36	54	95	48	72	110	60	87	123	72	95	134	84	102	145	89	110	155	95	116	164	100	123	173
					22.5°	26	39	68	35	52	79	43	63	89	52	68	96	60	73	104	64	79	112	68	84	118	72	89	125
					45°	20	30	52	26	40	61	33	48	68	40	52	74	46	56	80	49	61	85	52	64	90	55	68	95
42	28	8.17	7.84	CFM		2350			3130			3920			4700			5480			6270			7050			7840		
				NC		<20			22			28			33			38			42			45			48		
				Throw	0°	37	55	96	49	73	111	61	88	124	73	96	136	85	104	147	91	111	157	96	118	166	101	124	175
					22.5°	27	40	69	35	53	80	44	63	89	53	69	98	61	75	106	66	80	113	69	85	120	73	89	126
					45°	20	30	53	27	40	61	34	48	68	40	53	75	47	57	81	50	61	86	53	65	91	56	68	96
44	28	8.56	8.21	CFM		2460			3290			4110			4930			5750			6570			7390			8210		
				NC		<20			22			28			34			38			42			45			48		
				Throw	0°	37	56	98	50	75	114	62	90	127	75	98	139	87	106	150	93	113	160	98	120	170	104	127	179
					22.5°	27	40	71	36	54	82	45	65	91	54	71	100	63	76	108	67	81	115	71	86	122	75	91	129
					45°	20	31	54	28	41	63	34	50	70	41	54	76	48	58	83	51	62	88	54	66	94	57	70	98
36	36	9.00	8.66	CFM		2600			3460			4330			5200			6060			6930			7790			8660		
				NC		<20			22			29			34			38			42			46			49		
				Throw	0°	38	58	101	51	77	116	64	92	130	77	101	143	89	109	154	95	117	165	101	124	175	106	130	184
					22.5°	27	42	73	37	55	84	46	66	94	55	73	103	64	78	111	68	84	119	73	89	126	76	94	132
					45°	21	32	56	28	42	64	35	51	72	42	56	79	49	60	85	52	64	91	56	68	96	58	72	101
40	34	9.44	9.09	CFM		2730			3640			4550			5460			6370			7280			8180			9090		
				NC		<20			22			29			34			39			42			46			49		
				Throw	0°	39	59	103	52	79	119	66	94	134	79	103	146	91	112	158	98	119	169	103	127	179	109	133	189
					22.5°	28	42	74	37	57	86	48	68	96	57	74	105	66	81	114	71	86	122	74	91	129	78	96	136
					45°	21	32	57	29	43	65	36	52	74	43	57	80	50	62	87	54	65	93	57	70	98	60	73	104
48	30	10.00	9.63	CFM		2890			3850			4820			5780			6740			7700			8670			9630		
				NC		<20			23			29			34			39			43			46			49		
				Throw	0°	41	61	106	54	81	123	68	97	137	81	106	151	94	115	163	100	123	174	106	130	184	112	137	194
					22.5°	30	44	76	39	58	89	49	70	99	58	76	109	68	83	117	72	89	125	76	94	132	81	99	140
					45°	23	34	58	30	45	68	37	53	75	45	58	83	52	63	90	55	68	96	58	72	101	62	75	107
42	36	10.50	10.13	CFM		3040			4050			5070			6080			7090			8100			9120			10130		
				NC		<20			23			29			35			39			43			46			49		
				Throw	0°	42	62	109	55	83	126	69	100	141	83	109	154	96	118	167	103	126	178	109	134	189	115	141	199
					22.5°	30	45	78	40	60	91	50	72	102	60	78	111	69	85	120	74	91	128	78	96	136	83	102	143
					45°	23	34	60	30	46	69	38	55	78	46	60	85	53	65	92	57	69	98	60	74	104	63	78	109
48	38	12.67	12.26	CFM		3680			4900			6130			7360			8580			9810			11030			12260		
				NC		<20			24			30			35			40			44			47			50		
				Throw	0°	46	69	120	61	91	139	76	110	155	91	120	170	106	130	183	113	139	196	120	147	208	127	155	219
					22.5°	33	50	86	44	66	100	55	79	112	66	86	122	76	94	132	81	100	141	86	106	150	91	112	158
					45°	25	38	66	34	50	76	42	61	85	50	66	94	58	72	101	62	76	108	66	81	114	70	85	120
46	44	14.06	13.63	CFM		4090			5450			6810			8180			9540			10900			12270			13630		
				NC		<20			24			31			36			40			44			48			51		
				Throw	0°	48	72	127	64	96	146	80	116	163	96	127	179	112	137	193	119	146	207	127	155	219	133	163	231
					22.5°	35	52	91	46	69	105	58	84	117	69	91	129	81	99	139	86	105	149	91	112	158	96	117	166
					45°	26	40	70	35	53	80	44	64	90	53	70	98	62	75	106	65	80	114	70	85	120	73	90	127
48	46	15.33	14.89	CFM		4470			5960			7440			8930			10420			11910			13400			14890		
				NC		<20			25			31			36			41			45			48			51		
				Throw	0°	50	76	132	67	101	153	84	121	171	101	132	187	117	143	202	125	153	216	132	162	229	139	171	242
					22.5°	36	55	95	48	73	110	60	87	123	73	95	135	84	103	145	90	110	156	95	117	165	100	123	174
					45°	28	42	73	37	56	84	46	67	94	56	73	103	64	79	111	69	84	119	73	89	126	76	94	133
48	48	16.00	15.54	CFM		4660			6220			7770			9330			10880			12440			13990			15540		
				NC		<20			25			31			36			41			45			48			51		
				Throw	0°	51	77	135	69	103	156	86	123	175	103	135	191	119	146	207	127	156	221	135	166	234	142	175	247
					22.5°	37	55	97	50	74	112	62	89	126	74	97	138	86	105	149	91	112	159	97	120	168	102	126	178
					45°	28	42	74	38	57	86	47	68	96	57	74	105	65	80	114	70	86	122	74	91	129	78	96	136

Test Standard
- ANSI / ASHRAE standard 70
- Isothermal air used during testing. For large grilles with a cooling differential, the drop of the air stream should be evaluated.
- Data includes opposed blade volume control damper in full open position.

Throw
- The numbers shown are throw distances, in feet, measured along the jet trajectory axis relating to terminal velocities of 150,100, & 50 fpm, with the jet attached to the ceiling surface. For exposed duct installation with free, unattached jet, multiple throw distance in table x .70
- 0°, 22.5°,45° represent the blade deflection or spread angle settings
- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream.

Opposed Blade Volume Control Dampers (OBD)
- Data shown includes OBD (wide open)
- Without damper, reduce NC -3
- Without damper, reduce P_s x .75

Sound Levels
- NC shown is for 0° blade angle setting and is noise criteria curve that will not be exceeded at the operating point. This is determined by assuming a 10dB (ref: 10^{-12} watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands. For 22.5° blade angle setting, add 2 NC to the tabulated value shown. For for 45° blade angle setting, add 6 NC to the tabulated value shown.

Neck Velocity, Core Velocity
- Feet per minute

Pressure
- P_s represents static pressure, inches of water