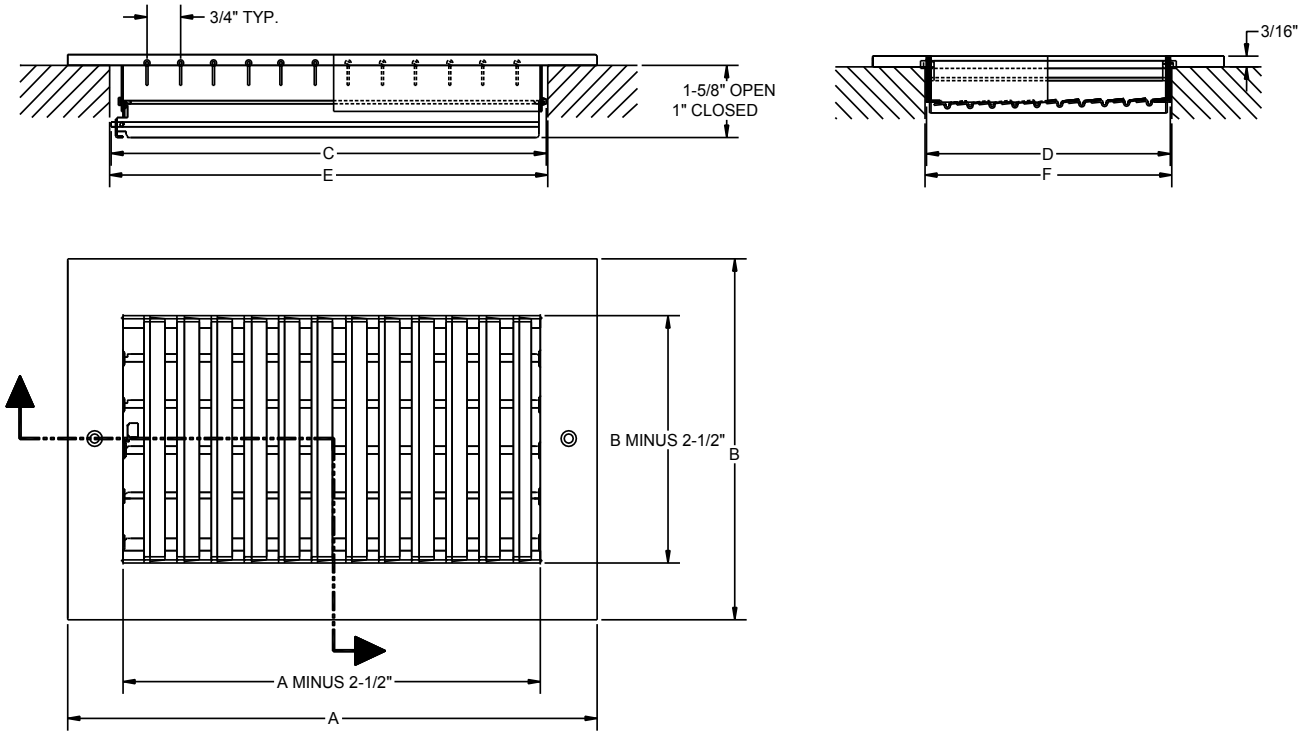
MFVSCA SERIES
VERTICAL ADJUSTABLE SIDEWALL CEILING REGISTER
SPECIFICATION CHART



- **Heavy Gauge Steel Construction**
- **Vertical Single Deflection**
- **Adjustable Front Fins**
- **Multi-Shutter Damper**
- **Finish: White**

Vertical Adjustable Sidewall/Ceiling Register Dimensional Chart									
Size (ExF)	Dimensions (See Detail Sketches)				Size (ExF)	Dimensions (See Detail Sketches)			
	A	B	C	D		A	B	C	D
8 x 4	9-7/8	5-7/8	7-7/8	3-1/2	14 x 8	15-7/8	9-7/8	13-7/8	7-1/2
8 x 6	9-7/8	7-7/8	7-7/8	5-1/2	14 x 10	15-7/8	11-7/8	13-7/8	9-1/2
10 x 4	11-7/8	5-7/8	9-7/8	3-1/2	14 x 14	15-7/8	15-7/8	13-7/8	13-1/2
10 x 6	11-7/8	7-7/8	9-7/8	5-1/2	16 x 16	17-7/8	17-7/8	15-7/8	15-1/2
10 x 10	11-7/8	11-7/8	9-7/8	9-1/2	18 x 6	19-7/8	7-7/8	17-7/8	5-1/2
12 x 6	13-7/8	7-7/8	11-7/8	5-1/2	20 x 8	21-7/8	9-7/8	19-7/8	7-1/2
12 x 8	13-7/8	9-7/8	11-7/8	7-1/2	24 x 6	25-7/8	7-7/8	23-7/8	5-1/2
14 x 6	15-7/8	7-7/8	13-7/8	5-1/2	24 x 8	25-7/8	9-7/8	23-7/8	7-1/2

DEFLECTION A [Terminal velocity of 75 fpm & Throw (ft). See page 4 for graph.]

Face Velocity		400	500	600	700	800	900	1000	1100	1200	1300	1400	1600	1800	2000
Pressure Loss (In H_2O)		0.012	0.016	0.024	0.032	0.040	0.052	0.064	0.076	0.092	0.108	0.124	0.164	0.204	0.252
8 x 4	cfm	65	80	95	115	130	145	160	180	195	210	225	260	290	325
Ak .16	throw (ft)	7.0	9.0	10.0	11.0	14.0	15.0	16.0	19.0	20.0	22.0	24.0	26.0	30.0	33.0
8 x 6	cfm	100	125	150	175	200	225	250	275	300	320	345	395	445	495
Ak .25	throw	8.0	11.0	13.0	14.0	16.0	19.0	20.0	23.0	24.0	27.0	29.0	33.0	37.0	41.0
10 x 4	cfm	80	100	120	140	160	180	200	220	245	265	285	325	365	405
Ak .21	throw	7.0	9.0	11.0	13.0	14.0	17.0	18.0	21.0	22.0	24.0	26.0	30.0	33.0	36.0
10 x 6	cfm	125	155	190	220	250	285	315	345	380	410	440	505	565	630
Ak .32	throw	9.0	11.0	14.0	16.0	18.0	22.0	23.0	25.0	28.0	30.0	33.0	36.0	41.0	46.0
10 x 10	cfm	210	265	315	370	420	475	530	580	635	685	740	845	950	1055
Ak .53	throw	12.0	15.0	19.0	21.0	23.0	27.0	29.0	33.0	35.0	38.0	41.0	48.0	53.0	60.0
12 x 6	cfm	150	190	225	265	305	345	380	420	460	495	535	610	685	760
Ak .38	throw	10.0	12.0	15.0	17.0	21.0	22.0	26.0	27.0	30.0	33.0	36.0	41.0	45.0	50.0
12 x 12	cfm	310	385	465	540	620	695	775	850	930	1005	1085	1240	1395	1550
Ak .77	throw	14.0	18.0	21.0	25.0	28.0	32.0	35.0	40.0	43.0	47.0	50.0	57.0	64.0	72.0
14 x 6	cfm	180	225	270	315	360	405	450	495	540	580	625	715	805	895
Ak .45	throw	11.0	13.0	16.0	19.0	23.0	24.0	27.0	30.0	33.0	35.0	39.0	43.0	50.0	54.0
14 x 8	cfm	235	295	355	415	475	530	590	650	710	770	825	945	1065	1180
Ak .59	throw	12.0	15.0	18.0	22.0	24.0	28.0	30.0	33.0	37.0	39.0	43.0	49.0	55.0	61.0
14 x 10	cfm	300	375	450	525	600	675	750	825	900	975	1050	1200	1350	1500
Ak .75	throw	14.0	17.0	20.0	24.0	27.0	31.0	34.0	38.0	41.0	45.0	48.0	55.0	62.0	69.0
14 x 14	cfm	425	535	640	750	855	965	1070	1180	1285	1390	1500	1715	1930	2140
Ak 1.07	throw	18.0	22.0	26.0	30.0	34.0	38.0	42.0	47.0	51.0	55.0	59.0	67.0	75.0	84.0
16 x 16	cfm	560	700	845	985	1125	1265	1400	1545	1685	1825	1965	2250	2530	2810
Ak 1.41	throw	19.0	24.0	29.0	34.0	39.0	45.0	50.0	54.0	59.0	64.0	68.0	77.0	86.0	95.0
18 x 6	cfm	230	285	340	400	455	515	570	625	685	740	800	910	1025	1140
Ak .57	throw	12.0	15.0	18.0	22.0	24.0	28.0	30.0	33.0	37.0	39.0	43.0	49.0	55.0	61.0
20 x 8	cfm	350	435	520	610	695	780	870	955	1045	1130	1215	1390	1565	1740
Ak .87	throw	15.0	19.0	22.0	26.0	30.0	34.0	37.0	42.0	45.0	50.0	53.0	61.0	68.0	76.0
24 x 6	cfm	310	385	465	540	620	695	775	850	930	1005	1085	1240	1395	1545
Ak .77	throw	14.0	18.0	22.0	25.0	29.0	32.0	35.0	40.0	43.0	46.0	51.0	58.0	64.0	72.0
24 x 8	cfm	420	525	630	735	840	940	1045	1150	1255	1360	1465	1675	1885	2095
Ak 1.05	throw	17.0	21.0	25.0	30.0	33.0	37.0	42.0	46.0	50.0	54.0	59.0	66.0	75.0	83.0

DEFLECTION C [Terminal velocity of 75 fpm & Throw (ft). See page 4 for graph.]

Face Velocity		400	500	600	700	800	900	1000	1100	1200	1300	1400	1600	1800	2000
Pressure Loss (In H_2O)		0.012	0.016	0.024	0.032	0.040	0.052	0.064	0.076	0.092	0.108	0.124	0.164	0.204	0.252
8 x 4	cfm	55	70	85	100	115	130	140	155	170	185	200	225	255	285
Ak .14	throw	5.0	6.0	8.0	9.0	10.0	11.0	13.0	14.0	15.0	17.0	18.0	20.0	22.0	25.0
8 x 6	cfm	85	110	130	150	175	195	215	240	260	280	300	345	390	430
Ak .22	throw	6.0	8.0	10.0	11.0	13.0	14.0	15.0	17.0	18.0	21.0	22.0	24.0	28.0	30.0
10 x 4	cfm	70	90	105	125	145	160	180	195	215	235	250	285	320	360
Ak .18	throw	5.0	6.0	8.0	9.0	11.0	13.0	14.0	15.0	16.0	18.0	20.0	22.0	25.0	28.0
10 x 6	cfm	110	140	165	195	220	250	275	305	330	360	390	445	500	555
Ak .27	throw	7.0	9.0	10.0	12.0	14.0	16.0	17.0	19.0	22.0	22.0	24.0	27.0	32.0	34.0
10 x 10	cfm	185	235	280	325	370	420	465	510	560	605	650	745	835	930
Ak .47	throw	9.0	11.0	14.0	16.0	18.0	20.0	22.0	26.0	27.0	29.0	32.0	36.0	40.0	45.0
12 x 6	cfm	135	170	205	235	270	305	340	370	405	440	475	540	610	675
Ak .34	throw	8.0	10.0	11.0	13.0	15.0	18.0	19.0	21.0	23.0	26.0	27.0	30.0	34.0	38.0
12 x 12	cfm	295	370	440	515	590	660	735	810	880	955	1030	1175	1325	1470
Ak .74	throw	11.0	13.0	16.0	19.0	21.0	25.0	27.0	30.0	33.0	35.0	38.0	45.0	51.0	58.0
14 x 6	cfm	155	195	235	275	315	355	395	430	470	510	550	630	705	785
Ak .39	throw	8.0	10.0	13.0	14.0	17.0	19.0	20.0	24.0	25.0	27.0	30.0	33.0	38.0	42.0
14 x 8	cfm	210	260	310	365	415	470	520	570	625	675	730	830	935	1040
Ak .52	throw	9.0	11.0	14.0	17.0	18.0	22.0	24.0	26.0	29.0	31.0	34.0	38.0	43.0	48.0
14 x 10	cfm	270	340	405	475	540	610	675	745	810	880	945	1080	1215	1350
Ak .68	throw	11.0	14.0	16.0	19.0	21.0	24.0	27.0	29.0	31.0	34.0	38.0	42.0	49.0	54.0
14 x 14	cfm	360	450	540	630	720	810	900	990	1080	1170	1260	1440	1620	1800
Ak .90	throw	14.0	16.0	20.0	23.0	26.0	29.0	33.0	37.0	39.0	42.0	46.0	52.0	59.0	65.0
16 x 16	cfm	470	590	705	825	940	1060	1180	1295	1415	1530	1650	1885	2120	2355
Ak 1.18	throw	17.0	19.0	21.0	26.0	28.0	33.0	36.0	39.0	43.0	47.0	50.0	57.0	64.0	73.0
18 x 6	cfm	195	245	295	345	395	445	495	545	590	640	690	790	890	985
Ak .49	throw	9.0	11.0	14.0	17.0	18.0	22.0	24.0	26.0	29.0	31.0	32.0	38.0	42.0	47.0
20 x 8	cfm	305	385	460	535	610	690	765	840	920	995	1070	1225	1375	1530
Ak .77	throw	12.0	15.0	18.0	22.0	25.0	28.0	31.0	34.0	37.0	40.0	44.0	50.0	56.0	61.0
24 x 6	cfm	265	330	395	460	530	595	660	725	790	860	925	1055	1190	1320
Ak .66	throw	12.0	15.0	16.0	20.0	21.0	25.0	27.0	31.0	32.0	35.0	39.0	43.0	50.0	55.0
24 x 8	cfm	355	440	530	615	705	795	880	970	1060	1145	1235	1410	1590	1765
Ak .88	throw	15.0	17.0	19.0	23.0	25.0	29.0	31.0	36.0	39.0	41.0	44.0	51.0	57.0	64.0

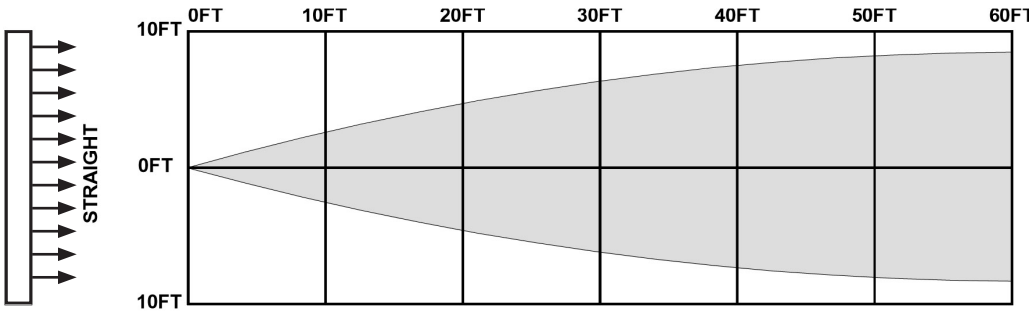
DEFLECTION E [Terminal velocity of 75 fpm & Throw (ft). See page 4 for graph.]

Face Velocity		400	500	600	700	800	900	1000	1100	1200	1300	1400	1600	1800	2000
Pressure Loss (In H_2O)		0.012	0.016	0.024	0.032	0.040	0.052	0.064	0.076	0.092	0.108	0.124	0.164	0.204	0.252
8 x 4	cfm	50	65	75	90	100	115	125	140	150	165	175	200	225	250
Ak .13	throw	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	16.0	17.0	19.0
8 x 6	cfm	75	95	115	135	155	170	190	210	230	250	265	305	345	380
Ak .19	throw	5.0	6.0	7.0	8.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	18.0	20.0	23.0
10 x 4	cfm	65	80	95	110	125	140	155	175	190	205	220	250	285	315
Ak .16	throw	4.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	15.0	16.0	18.0	19.0	21.0
10 x 6	cfm	100	125	150	170	195	220	245	270	295	320	345	395	445	490
Ak .25	throw	5.0	7.0	8.0	10.0	11.0	12.0	13.0	14.0	16.0	17.0	19.0	20.0	24.0	26.0
10 x 10	cfm	165	205	245	285	330	370	410	450	490	535	575	655	740	820
Ak .41	throw	7.0	9.0	10.0	11.0	14.0	15.0	17.0	19.0	20.0	22.0	23.0	27.0	31.0	34.0
12 x 6	cfm	120	150	175	205	235	265	295	325	350	385	415	470	530	590
Ak .30	throw	6.0	7.0	9.0	10.0	11.0	14.0	15.0	16.0	17.0	19.0	20.0	22.0	26.0	29.0
12 x 12	cfm	240	300	360	420	480	540	600	660	720	780	840	960	1080	1200
Ak .60	throw	9.0	11.0	13.0	14.0	17.0	18.0	21.0	22.0	24.0	26.0	28.0	33.0	37.0	41.0
14 x 6	cfm	140	175	210	245	280	310	345	380	415	450	485	555	625	695
Ak .35	throw	7.0	8.0	9.0	12.0	13.0	14.0	15.0	17.0	19.0	21.0	22.0	25.0	29.0	31.0
14 x 8	cfm	185	230	275	320	365	410	455	505	550	595	640	730	825	915
Ak .46	throw	7.0	9.0	10.0	12.0	14.0	15.0	18.0	21.0	22.0	23.0	24.0	29.0	31.0	35.0
14 x 10	cfm	230	290	350	405	465	525	580	640	695	755	815	930	1045	1160
Ak .58	throw	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	31.0	35.0	40.0
14 x 14	cfm	335	415	500	580	665	750	830	915	1000	1080	1165	1330	1500	1665
Ak .83	throw	11.0	13.0	17.0	20.0	22.0	26.0	28.0	30.0	33.0	36.0	38.0	44.0	50.0	55.0
16 x 16	cfm	435	545	655	765	875	980	1090	1200	1310	1420	1525	1745	1965	2180
Ak 1.09	throw	11.0	14.0	17.0	19.0	22.0	25.0	27.0	31.0	33.0	36.0	38.0	45.0	50.0	56.0
18 x 6	cfm	175	220	265	310	355	400	445	485	530	575	620	710	795	885
Ak .44	throw	7.0	9.0	10.0	12.0	14.0	15.0	18.0	21.0	22.0	23.0	24.0	29.0	31.0	35.0
20 x 8	cfm	270	335	405	470	540	605	675	740	810	875	940	1075	1210	1345
Ak .67	throw	9.0	11.0	15.0	17.0	19.0	22.0	24.0	26.0	28.0	31.0	32.0	37.0	43.0	47.0
24 x 6	cfm	240	300	360	420	480	540	600	660	720	780	840	960	1080	1200
Ak .60	throw	9.0	10.0	12.0	14.0	16.0	19.0	21.0	22.0	24.0	27.0	28.0	32.0	37.0	41.0
24 x 8	cfm	325	405	490	570	650	730	815	895	975	1055	1140	1300	1465	1625
Ak .81	throw	10.0	12.0	14.0	17.0	19.0	21.0	24.0	25.0	28.0	30.0	38.0	38.0	42.0	47.0

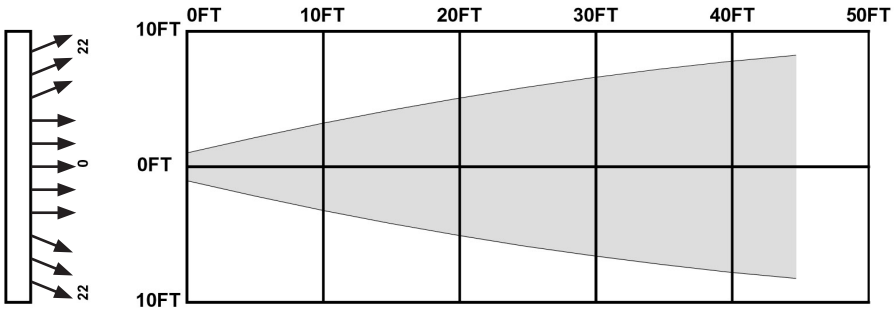
DEFLECTION G [Terminal velocity of 75 fpm & Throw (ft). See page 4 for graph.]

Face Velocity		400	500	600	700	800	900	1000	1100	1200	1300	1400	1600	1800	2000
Pressure Loss (In H_2O)		0.012	0.016	0.024	0.032	0.040	0.052	0.064	0.076	0.092	0.108	0.124	0.164	0.204	0.252
8 x 4	cfm	50	60	70	85	95	110	120	130	145	155	170	190	215	240
Ak .12	throw	3.0	4.0	5.0	5.0	6.0	7.0	7.0	8.0	9.0	10.0	10.0	11.0	13.0	14.0
8 x 6	cfm	70	90	105	125	140	160	175	195	210	230	245	280	315	350
Ak .18	throw	3.0	4.0	5.0	6.0	7.0	8.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	16.0
10 x 4	cfm	55	70	85	100	115	130	145	155	170	185	200	230	255	285
Ak .14	throw	3.0	4.0	5.0	6.0	6.0	7.0	8.0	8.0	9.0	10.0	10.0	11.0	13.0	14.0
10 x 6	cfm	90	110	135	155	180	200	225	245	270	290	315	360	405	450
Ak .22	throw	4.0	5.0	6.0	7.0	8.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	16.0	17.0
10 x 10	cfm	150	185	225	260	300	335	375	410	450	485	525	600	675	750
Ak .38	throw	5.0	6.0	7.0	8.0	9.0	10.0	11.0	13.0	14.0	15.0	16.0	18.0	21.0	23.0
12 x 6	cfm	110	135	160	190	215	240	270	295	325	350	375	430	485	540
Ak .27	throw	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	18.0	19.0
12 x 12	cfm	220	275	330	385	440	495	545	600	655	710	765	875	985	1095
Ak .55	throw	6.0	7.0	8.0	9.0	10.0	11.0	13.0	15.0	17.0	18.0	20.0	23.0	25.0	28.0
14 x 6	cfm	125	160	190	225	255	285	320	350	380	415	445	510	570	635
Ak .32	throw	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	19.0	20.0
14 x 8	cfm	165	210	250	290	335	375	415	460	500	540	585	665	750	835
Ak .42	throw	5.0	6.0	7.0	8.0	9.0	10.0	11.0	13.0	14.0	15.0	17.0	18.0	22.0	24.0
14 x 10	cfm	210	265	320	370	425	475	530	585	635	690	740	850	955	1060
Ak .53	throw	5.0	7.0	8.0	9.0	11.0	12.0	13.0	15.0	16.0	18.0	19.0	21.0	24.0	27.0
14 x 14	cfm	305	385	460	535	615	690	765	845	920	995	1075	1225	1380	1535
Ak .77	throw	7.0	8.0	9.0	12.0	13.0	15.0	16.0	18.0	19.0	21.0	22.0	26.0	29.0	31.0
16 x 16	cfm	395	495	595	695	790	890	990	1090	1190	1285	1385	1585	1780	1980
Ak .99	throw	7.0	9.0	12.0	13.0	15.0	17.0	19.0	20.0	22.0	24.0	26.0	30.0	34.0	37.0
18 x 6	cfm	160	200	240	280	320	365	405	445	485	525	565	645	725	805
Ak .40	throw	5.0	6.0	7.0	8.0	9.0	10.0	11.0	13.0	14.0	15.0	17.0	18.0	22.0	24.0
20 x 8	cfm	245	305	370	430	490	555	615	675	740	800	860	980	1105	1230
Ak .61	throw	6.0	7.0	9.0	10.0	12.0	14.0	15.0	17.0	19.0	21.0	23.0	26.0	28.0	31.0
24 x 6	cfm	220	275	330	385	440	490	545	600	655	710	765	875	985	1095
Ak .55	throw	6.0	7.0	8.0	10.0	11.0	12.0	14.0	15.0	17.0	18.0	20.0	21.0	25.0	27.0
24 x 8	cfm	295	370	445	520	595	665	740	815	890	965	1035	1185	1335	1480
Ak .74	throw	7.0	8.0	10.0	11.0	14.0	15.0	16.0	18.0	19.0	20.0	23.0	26.0	28.0	32.0

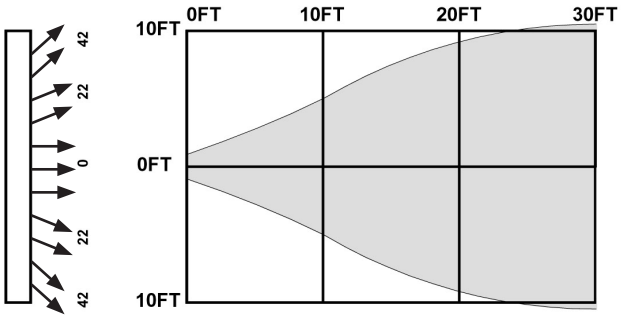
Deflection A



Deflection C



Deflection E



Deflection G