

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P232087

Luminaire Tested: **FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-30)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
3FT LENGTH, 2-MODULE LED WITH PA187 LENS
Light Source: (168) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

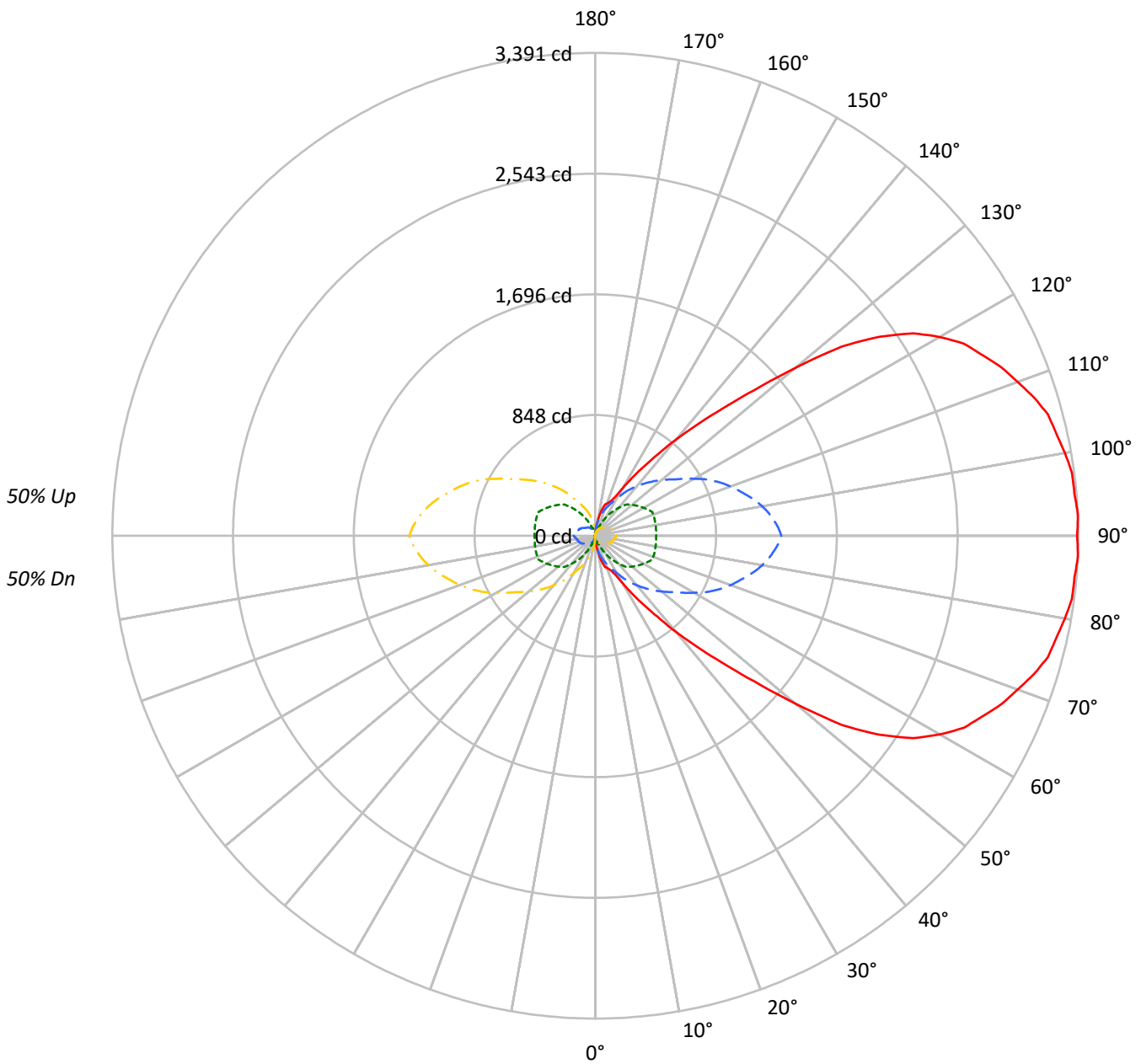
Lumens per Lamp: N/A
Luminaire Lumens: 7625.5 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 28.99 / 18.28 / 19.46
Luminous Opening: Rectangular w/ Sides (W: 2.92' x L: 0.19' x H: 0.31')
CIE Type: General Diffuse

Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	91	83	77	71	83	76	70	65	63	58	54	50	47	43	39	36	33	28
2	80	69	60	53	72	63	55	48	51	45	39	40	35	31	30	26	23	18
3	71	59	49	41	64	53	44	37	43	36	30	33	28	23	24	20	17	12
4	64	50	40	33	58	46	37	30	37	30	24	28	23	18	21	16	13	9
5	58	44	34	27	53	40	31	24	32	25	19	25	19	15	18	14	10	6
6	53	39	29	22	48	35	27	20	28	21	16	22	16	12	16	12	8	5
7	49	35	25	19	44	31	23	17	25	19	14	20	14	10	14	10	7	4
8	45	31	22	16	41	28	20	15	23	16	12	18	12	9	13	9	6	3
9	42	28	20	14	38	26	18	13	21	14	10	16	11	7	12	8	5	2
10	39	26	18	12	35	23	16	11	19	13	9	15	10	6	11	7	4	2

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	22	22	22	22
5°	959	311	0	311
10°	1886	602	0	602
15°	2826	899	0	899
20°	3112	1214	0	1214
25°	3370	1955	0	1955
30°	4481	3174	0	3174
35°	6563	4515	0	4515
40°	9434	6030	0	6030
45°	13152	7784	11	7784
50°	18777	9156	11	9156
55°	24731	10857	11	10857
60°	28272	13029	11	13029
65°	30541	15906	11	15906
70°	32549	19251	23	19251
75°	34649	23430	23	23430
80°	36301	30289	0	30289
85°	38034	43438	0	43438



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.0
10°-20°	24.7	0.3
20°-30°	66.3	0.9
30°-40°	152.5	2.0
40°-50°	299.1	3.9
50°-60°	533.0	7.0
60°-70°	773.9	10.1
70°-80°	939.2	12.3
80°-90°	1020.7	13.4
90°-100°	1020.7	13.4
100°-110°	939.2	12.3
110°-120°	773.9	10.1
120°-130°	533.0	7.0
130°-140°	299.1	3.9
140°-150°	152.5	2.0
150°-160°	66.3	0.9
160°-170°	24.7	0.3
170°-180°	3.4	0.0
0°-30°	94.4	1.2
0°-40°	246.9	3.2
0°-60°	1079.0	14.1
0°-90°	3812.7	50.0
90°-120°	2733.8	35.9
90°-150°	3718.3	48.8
90°-180°	3813.0	50.0
0°-180°	7625.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1	1	1	1	1	
5°	56	16	0	16	56	7
15°	201	45	0	45	201	57
25°	276	94	0	94	276	136
35°	592	202	0	202	592	387
45°	1260	310	1	310	1260	1014
55°	2436	365	1	365	2436	2156
65°	3000	420	1	420	3000	2975
75°	3290	431	2	431	3290	3462
85°	3377	428	0	428	3377	2756
90°	3383	426	0	426	3383	1857
95°	3377	428	0	428	3377	2756
105°	3290	431	2	431	3290	3462
115°	3000	420	1	420	3000	2975
125°	2436	365	1	365	2436	2156
135°	1260	310	1	310	1260	1014
145°	592	202	0	202	592	387
155°	276	94	0	94	276	136
165°	201	45	0	45	201	57
175°	56	16	0	16	56	7
180°	1	1	1	1	1	



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2.5°	24.0	24.3	24.6	25.0	25.3	25.6	25.9	25.2	25.1	25.1	25.0
5°	55.6	56.2	56.8	57.5	58.1	57.2	57.2	57.0	56.7	56.3	55.8
7.5°	90.5	91.3	92.2	93.0	92.3	92.2	92.0	91.5	90.9	90.1	89.1
10°	122.1	123.1	124.1	125.0	124.1	124.0	123.7	123.1	122.4	121.4	120.2
12.5°	160.2	161.1	161.9	161.2	160.8	160.1	159.1	157.8	156.2	154.3	152.1
15°	200.6	201.0	201.4	199.8	198.7	197.3	195.4	193.2	190.7	188.0	184.9
17.5°	231.1	231.7	232.3	231.0	230.1	228.8	227.0	224.8	222.2	219.2	215.7
20°	238.7	240.8	242.8	244.1	245.3	246.1	246.5	246.4	245.7	244.4	242.5
22.5°	254.0	257.7	261.3	263.4	265.6	267.2	268.2	268.5	268.0	266.7	264.6
25°	275.8	281.2	285.6	289.6	293.0	295.5	297.1	297.8	297.5	296.1	293.7
27.5°	313.9	320.2	324.7	328.8	331.8	333.9	335.0	335.1	334.2	332.2	329.8
30°	386.9	392.6	394.8	396.2	396.0	394.3	391.3	386.9	381.3	374.6	371.3
32.5°	481.8	485.7	484.5	482.4	478.3	472.3	464.8	455.8	445.6	435.5	426.2
35°	591.9	593.3	588.4	582.3	573.6	562.6	549.5	534.8	518.5	503.8	489.0
37.5°	717.2	716.6	707.8	697.5	683.6	666.7	646.8	624.3	600.3	579.3	557.4
40°	880.7	876.4	860.8	842.9	820.4	793.7	763.3	729.7	697.2	666.5	633.9
42.5°	1057.3	1051.8	1032.3	1009.6	980.5	945.2	904.0	857.2	813.6	769.3	723.1
45°	1260.0	1251.1	1225.0	1195.5	1158.6	1115.0	1065.2	1016.8	953.4	891.3	827.9
47.5°	1512.9	1499.7	1463.2	1422.0	1370.8	1310.4	1241.8	1171.7	1104.6	1033.1	961.3
50°	1831.2	1813.3	1763.3	1706.5	1635.8	1552.3	1456.9	1365.9	1274.3	1177.3	1095.1
52.5°	2183.2	2154.8	2088.8	2016.4	1929.8	1831.1	1722.2	1605.0	1476.3	1350.5	1240.7
55°	2436.1	2398.3	2331.1	2259.4	2177.4	2086.7	1982.7	1849.1	1703.5	1553.7	1403.0
57.5°	2645.4	2598.3	2524.8	2447.5	2361.4	2268.2	2163.8	2051.0	1930.4	1755.8	1585.3
60°	2791.5	2741.7	2669.9	2593.5	2507.5	2412.6	2312.0	2210.3	2089.3	1939.3	1765.1
62.5°	2919.0	2862.9	2795.9	2718.0	2629.5	2532.0	2437.6	2339.7	2225.1	2100.1	1925.6
65°	2999.6	2954.2	2897.9	2827.9	2742.2	2646.9	2547.5	2441.7	2332.2	2211.3	2071.8
67.5°	3087.9	3046.6	2994.1	2928.7	2849.7	2753.4	2647.5	2535.1	2416.2	2297.5	2168.9
70°	3155.5	3127.9	3086.6	3027.3	2941.5	2841.3	2734.4	2616.4	2493.5	2369.0	2251.7
72.5°	3229.6	3207.8	3172.8	3122.7	3028.2	2914.4	2803.0	2683.0	2562.0	2440.3	2317.9
75°	3289.6	3272.5	3243.4	3183.6	3081.9	2968.9	2851.9	2743.4	2621.5	2495.6	2370.9
77.5°	3314.7	3313.3	3298.1	3236.5	3138.2	3007.8	2899.1	2789.8	2669.4	2537.3	2408.2
80°	3347.4	3343.2	3327.2	3284.5	3193.3	3066.1	2939.4	2827.0	2704.9	2567.2	2433.2
82.5°	3375.7	3364.3	3346.1	3307.6	3226.3	3095.4	2965.7	2844.4	2724.5	2596.1	2462.4
85°	3376.8	3387.5	3367.4	3324.9	3239.4	3104.5	2979.5	2862.1	2742.3	2616.0	2481.0
87.5°	3391.0	3395.0	3369.6	3334.6	3259.3	3122.1	2993.6	2865.6	2746.4	2620.1	2487.6
90°	3383.3	3389.9	3351.7	3332.1	3254.7	3111.9	2990.9	2852.5	2735.9	2609.4	2481.9
92.5°	3391.0	3395.0	3369.6	3334.6	3259.3	3122.1	2993.6	2865.6	2746.4	2620.1	2487.6
95°	3376.8	3387.5	3367.4	3324.9	3239.4	3104.5	2979.5	2862.1	2742.3	2616.0	2481.0
97.5°	3375.7	3364.3	3346.1	3307.6	3226.3	3095.4	2965.7	2844.4	2724.5	2596.1	2462.4
100°	3347.4	3343.2	3327.2	3284.5	3193.3	3066.1	2939.4	2827.0	2704.9	2567.2	2433.2
102.5°	3314.7	3313.3	3298.1	3236.5	3138.2	3007.8	2899.1	2789.8	2669.4	2537.3	2408.2
105°	3289.6	3272.5	3243.4	3183.6	3081.9	2968.9	2851.9	2743.4	2621.5	2495.6	2370.9
107.5°	3229.6	3207.8	3172.8	3122.7	3028.2	2914.4	2803.0	2683.0	2562.0	2440.3	2317.9
110°	3155.5	3127.9	3086.6	3027.3	2941.5	2841.3	2734.4	2616.4	2493.5	2369.0	2251.7



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	3087.9	3046.6	2994.1	2928.7	2849.7	2753.4	2647.5	2535.1	2416.2	2297.5	2168.9
115°	2999.6	2954.2	2897.9	2827.9	2742.2	2646.9	2547.5	2441.7	2332.2	2211.3	2071.8
117.5°	2919.0	2862.9	2795.9	2718.0	2629.5	2532.0	2437.6	2339.7	2225.1	2100.1	1925.6
120°	2791.5	2741.7	2669.9	2593.5	2507.5	2412.6	2312.0	2210.3	2089.3	1939.3	1765.1
122.5°	2645.4	2598.3	2524.8	2447.5	2361.4	2268.2	2163.8	2051.0	1930.4	1755.8	1585.3
125°	2436.1	2398.3	2331.1	2259.4	2177.4	2086.7	1982.7	1849.1	1703.5	1553.7	1403.0
127.5°	2183.2	2154.8	2088.8	2016.4	1929.8	1831.1	1722.2	1605.0	1476.3	1350.5	1240.7
130°	1831.2	1813.3	1763.3	1706.5	1635.8	1552.3	1456.9	1365.9	1274.3	1177.3	1095.1
132.5°	1512.9	1499.7	1463.2	1422.0	1370.8	1310.4	1241.8	1171.7	1104.6	1033.1	961.3
135°	1260.0	1251.1	1225.0	1195.5	1158.6	1115.0	1065.2	1016.8	953.4	891.3	827.9
137.5°	1057.3	1051.8	1032.3	1009.6	980.5	945.2	904.0	857.2	813.6	769.3	723.1
140°	880.7	876.4	860.8	842.9	820.4	793.7	763.3	729.7	697.2	666.5	633.9
142.5°	717.2	716.6	707.8	697.5	683.6	666.7	646.8	624.3	600.3	579.3	557.4
145°	591.9	593.3	588.4	582.3	573.6	562.6	549.5	534.8	518.5	503.8	489.0
147.5°	481.8	485.7	484.5	482.4	478.3	472.3	464.8	455.8	445.6	435.5	426.2
150°	386.9	392.6	394.8	396.2	396.0	394.3	391.3	386.9	381.3	374.6	371.3
152.5°	313.9	320.2	324.7	328.8	331.8	333.9	335.0	335.1	334.2	332.2	329.8
155°	275.8	281.2	285.6	289.6	293.0	295.5	297.1	297.8	297.5	296.1	293.7
157.5°	254.0	257.7	261.3	263.4	265.6	267.2	268.2	268.5	268.0	266.7	264.6
160°	238.7	240.8	242.8	244.1	245.3	246.1	246.5	246.4	245.7	244.4	242.5
162.5°	231.1	231.7	232.3	231.0	230.1	228.8	227.0	224.8	222.2	219.2	215.7
165°	200.6	201.0	201.4	199.8	198.7	197.3	195.4	193.2	190.7	188.0	184.9
167.5°	160.2	161.1	161.9	161.2	160.8	160.1	159.1	157.8	156.2	154.3	152.1
170°	122.1	123.1	124.1	125.0	124.1	124.0	123.7	123.1	122.4	121.4	120.2
172.5°	90.5	91.3	92.2	93.0	92.3	92.2	92.0	91.5	90.9	90.1	89.1
175°	55.6	56.2	56.8	57.5	58.1	57.2	57.2	57.0	56.7	56.3	55.8
177.5°	24.0	24.3	24.6	25.0	25.3	25.6	25.9	25.2	25.1	25.1	25.0
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2.5°	24.8	24.6	24.4	24.1	23.8	23.4	23.0	22.5	22.0	21.5	20.9
5°	55.1	54.3	53.5	52.5	51.4	50.1	48.8	47.4	45.8	44.2	42.5
7.5°	87.9	86.5	85.0	83.2	81.4	79.3	77.1	74.7	72.2	69.7	67.2
10°	118.8	117.2	115.4	113.3	111.2	108.8	106.0	102.9	99.5	96.0	92.3
12.5°	149.7	147.1	144.2	141.1	137.9	134.9	131.7	128.3	124.6	120.9	116.9
15°	181.6	178.1	174.3	170.4	166.3	161.9	157.4	152.7	147.8	143.2	138.5
17.5°	211.7	207.4	202.7	197.9	192.9	187.7	182.5	177.0	171.4	165.6	159.6
20°	239.9	235.6	230.2	224.4	218.1	211.3	204.9	198.8	192.6	186.4	179.9
22.5°	261.8	258.8	254.9	249.9	244.1	236.7	228.6	220.0	211.2	204.3	197.6
25°	291.0	287.3	282.3	276.2	269.6	262.2	253.5	243.7	233.7	223.1	213.3
27.5°	326.5	321.9	315.8	308.8	301.0	291.8	282.8	270.4	257.9	244.8	232.6
30°	367.0	361.5	355.9	347.1	337.5	326.3	314.7	301.4	289.2	278.3	267.2
32.5°	415.9	404.8	396.2	387.8	378.2	366.4	353.4	340.4	327.9	315.1	303.2
35°	473.7	458.7	445.3	431.2	418.4	407.0	394.7	380.4	365.6	351.5	337.4
37.5°	534.8	515.6	497.4	481.6	463.7	446.8	432.4	418.4	403.1	386.9	371.3
40°	602.0	576.5	552.4	531.2	510.8	490.8	472.0	454.2	438.4	421.7	404.3
42.5°	683.3	647.6	613.7	586.5	561.1	536.2	512.9	492.3	472.2	454.8	436.7
45°	779.1	728.2	685.6	645.8	612.6	582.3	555.9	530.1	508.0	486.6	467.6
47.5°	889.9	822.3	765.6	711.6	669.2	631.2	598.9	570.1	542.9	519.4	497.5
50°	1011.0	931.0	853.5	788.7	729.2	682.7	643.0	609.1	579.3	551.6	527.1
52.5°	1133.5	1040.7	950.8	869.7	798.5	735.0	688.1	648.8	615.9	584.0	569.9
55°	1272.3	1151.7	1049.0	952.0	869.4	796.1	731.4	689.1	662.1	642.0	630.0
57.5°	1422.9	1274.3	1147.4	1037.4	938.1	857.6	794.0	745.7	714.0	694.0	683.7
60°	1577.3	1405.3	1250.4	1120.0	1018.3	932.3	861.1	800.3	764.4	742.2	731.9
62.5°	1733.0	1532.0	1363.4	1224.5	1105.5	1003.7	925.5	860.3	811.4	784.3	774.7
65°	1875.8	1675.9	1485.9	1327.2	1194.7	1080.3	984.8	913.2	856.9	826.6	815.9
67.5°	2014.6	1808.5	1609.9	1429.7	1277.0	1149.7	1043.7	965.2	905.3	866.8	852.5
70°	2104.7	1918.0	1723.0	1520.9	1357.7	1220.3	1103.8	1011.9	947.8	903.2	884.9
72.5°	2188.9	2001.5	1800.2	1606.0	1428.7	1281.6	1156.7	1055.7	985.8	939.7	919.3
75°	2241.8	2077.5	1861.4	1672.1	1485.5	1335.5	1208.2	1101.3	1027.7	977.9	951.4
77.5°	2287.6	2141.1	1911.4	1723.0	1544.2	1390.3	1260.2	1148.8	1066.8	1013.6	982.5
80°	2314.5	2175.0	1973.0	1767.9	1592.0	1433.9	1304.4	1190.5	1102.4	1046.9	1012.7
82.5°	2337.6	2203.8	2015.1	1800.1	1626.5	1466.9	1341.1	1226.8	1134.6	1078.1	1042.0
85°	2350.6	2224.5	2038.2	1819.9	1648.8	1490.4	1370.7	1257.8	1163.8	1107.3	1070.6
87.5°	2353.6	2242.0	2051.0	1833.0	1664.3	1508.5	1396.6	1286.1	1191.4	1135.5	1098.8
90°	2346.7	2232.3	2032.8	1824.6	1661.1	1514.0	1411.5	1305.8	1214.2	1160.8	1126.0
92.5°	2353.6	2242.0	2051.0	1833.0	1664.3	1508.5	1396.6	1286.1	1191.4	1135.5	1098.8
95°	2350.6	2224.5	2038.2	1819.9	1648.8	1490.4	1370.7	1257.8	1163.8	1107.3	1070.6
97.5°	2337.6	2203.8	2015.1	1800.1	1626.5	1466.9	1341.1	1226.8	1134.6	1078.1	1042.0
100°	2314.5	2175.0	1973.0	1767.9	1592.0	1433.9	1304.4	1190.5	1102.4	1046.9	1012.7
102.5°	2287.6	2141.1	1911.4	1723.0	1544.2	1390.3	1260.2	1148.8	1066.8	1013.6	982.5
105°	2241.8	2077.5	1861.4	1672.1	1485.5	1335.5	1208.2	1101.3	1027.7	977.9	951.4
107.5°	2188.9	2001.5	1800.2	1606.0	1428.7	1281.6	1156.7	1055.7	985.8	939.7	919.3
110°	2104.7	1918.0	1723.0	1520.9	1357.7	1220.3	1103.8	1011.9	947.8	903.2	884.9



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	2014.6	1808.5	1609.9	1429.7	1277.0	1149.7	1043.7	965.2	905.3	866.8	852.5
115°	1875.8	1675.9	1485.9	1327.2	1194.7	1080.3	984.8	913.2	856.9	826.6	815.9
117.5°	1733.0	1532.0	1363.4	1224.5	1105.5	1003.7	925.5	860.3	811.4	784.3	774.7
120°	1577.3	1405.3	1250.4	1120.0	1018.3	932.3	861.1	800.3	764.4	742.2	731.9
122.5°	1422.9	1274.3	1147.4	1037.4	938.1	857.6	794.0	745.7	714.0	694.0	683.7
125°	1272.3	1151.7	1049.0	952.0	869.4	796.1	731.4	689.1	662.1	642.0	630.0
127.5°	1133.5	1040.7	950.8	869.7	798.5	735.0	688.1	648.8	615.9	584.0	569.9
130°	1011.0	931.0	853.5	788.7	729.2	682.7	643.0	609.1	579.3	551.6	527.1
132.5°	889.9	822.3	765.6	711.6	669.2	631.2	598.9	570.1	542.9	519.4	497.5
135°	779.1	728.2	685.6	645.8	612.6	582.3	555.9	530.1	508.0	486.6	467.6
137.5°	683.3	647.6	613.7	586.5	561.1	536.2	512.9	492.3	472.2	454.8	436.7
140°	602.0	576.5	552.4	531.2	510.8	490.8	472.0	454.2	438.4	421.7	404.3
142.5°	534.8	515.6	497.4	481.6	463.7	446.8	432.4	418.4	403.1	386.9	371.3
145°	473.7	458.7	445.3	431.2	418.4	407.0	394.7	380.4	365.6	351.5	337.4
147.5°	415.9	404.8	396.2	387.8	378.2	366.4	353.4	340.4	327.9	315.1	303.2
150°	367.0	361.5	355.9	347.1	337.5	326.3	314.7	301.4	289.2	278.3	267.2
152.5°	326.5	321.9	315.8	308.8	301.0	291.8	282.8	270.4	257.9	244.8	232.6
155°	291.0	287.3	282.3	276.2	269.6	262.2	253.5	243.7	233.7	223.1	213.3
157.5°	261.8	258.8	254.9	249.9	244.1	236.7	228.6	220.0	211.2	204.3	197.6
160°	239.9	235.6	230.2	224.4	218.1	211.3	204.9	198.8	192.6	186.4	179.9
162.5°	211.8	207.4	202.7	197.9	192.9	187.7	182.5	177.0	171.4	165.6	159.6
165°	181.6	178.1	174.3	170.4	166.3	161.9	157.4	152.7	147.8	143.2	138.5
167.5°	149.7	147.1	144.2	141.1	137.9	134.9	131.7	128.3	124.6	120.9	116.9
170°	118.8	117.2	115.4	113.3	111.2	108.8	106.0	102.9	99.5	96.0	92.3
172.5°	87.9	86.5	85.0	83.2	81.4	79.3	77.1	74.7	72.2	69.7	67.1
175°	55.1	54.3	53.5	52.5	51.4	50.1	48.8	47.4	45.8	44.2	42.5
177.5°	24.8	24.6	24.4	24.1	23.8	23.4	23.0	22.5	22.0	21.5	20.9
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2.5°	20.3	19.6	18.9	18.2	17.5	16.7	15.9	15.0	14.2	13.3	12.4
5°	40.7	38.8	36.8	35.3	33.8	32.3	30.6	29.0	27.2	25.4	23.6
7.5°	64.4	61.6	58.6	55.5	52.3	49.0	45.6	42.9	40.3	37.6	34.8
10°	88.4	84.4	80.4	76.1	71.8	67.4	62.9	58.3	53.5	49.7	46.0
12.5°	112.2	107.2	102.0	96.7	91.2	85.6	80.0	74.3	68.4	62.3	57.2
15°	133.6	128.5	124.0	116.9	110.4	103.8	97.0	90.1	83.1	75.9	68.6
17.5°	154.3	147.8	141.8	135.6	129.0	121.4	113.6	105.7	97.6	89.3	80.9
20°	173.2	166.4	159.5	152.6	145.6	138.4	129.7	120.9	111.9	102.5	93.0
22.5°	190.9	183.7	176.3	168.8	161.1	153.2	145.2	135.6	125.7	115.6	105.0
25°	205.5	198.6	191.5	183.6	178.8	173.5	167.8	161.4	153.0	144.2	134.2
27.5°	224.4	219.9	217.2	214.0	209.3	204.4	198.8	192.9	185.2	176.0	165.8
30°	258.6	250.6	245.0	242.2	238.7	233.8	228.7	223.0	217.5	207.3	197.5
32.5°	291.5	282.1	274.2	268.9	266.1	262.2	257.3	252.0	246.4	238.1	227.9
35°	324.7	312.7	303.5	295.9	292.0	289.3	284.9	280.5	275.0	268.4	258.1
37.5°	356.3	343.3	331.3	323.5	317.3	314.6	311.6	307.2	302.7	297.9	287.9
40°	387.9	372.1	359.8	349.0	342.9	339.0	337.1	333.6	329.6	325.6	317.2
42.5°	418.3	401.7	386.2	375.0	367.4	362.6	361.3	359.1	355.8	352.7	346.2
45°	448.4	429.6	413.0	399.9	390.1	386.5	384.7	383.9	381.4	379.1	374.9
47.5°	477.0	457.5	439.3	423.7	413.6	412.9	417.0	418.8	416.0	410.9	404.0
50°	505.1	486.9	483.5	484.3	484.9	482.1	476.5	469.8	459.6	447.0	434.3
52.5°	562.1	559.0	559.7	563.6	567.1	557.7	542.3	525.2	506.4	485.2	465.6
55°	625.0	626.0	630.7	638.5	650.0	637.5	613.4	584.5	556.1	526.0	498.6
57.5°	681.9	687.1	697.0	709.8	726.4	720.5	689.4	647.5	608.7	569.2	532.9
60°	732.5	743.2	758.9	777.5	799.3	806.4	769.8	714.2	664.1	614.4	568.5
62.5°	779.5	794.8	816.5	841.6	869.3	894.9	852.5	785.5	722.0	661.3	605.3
65°	822.0	841.6	870.2	902.5	936.5	974.1	934.9	859.6	781.9	709.5	642.9
67.5°	859.8	884.1	920.4	960.5	1001.9	1046.2	1018.9	936.0	843.5	759.0	681.3
70°	894.3	924.6	967.9	1013.3	1053.5	1090.0	1064.9	973.1	868.9	775.7	690.5
72.5°	923.8	947.4	986.1	1030.6	1067.5	1092.5	1072.5	983.9	879.0	783.9	695.0
75°	948.1	964.8	1001.1	1048.4	1084.9	1099.4	1079.1	992.5	887.9	791.4	698.9
77.5°	973.7	983.7	1016.2	1066.7	1105.2	1109.7	1084.5	999.1	895.5	798.2	702.2
80°	1000.6	1004.1	1031.9	1085.8	1127.7	1122.8	1088.8	1003.8	901.9	804.3	704.9
82.5°	1028.2	1025.7	1048.3	1105.8	1152.0	1137.7	1091.9	1006.7	907.1	809.6	709.6
85°	1056.4	1048.3	1065.6	1126.6	1177.3	1155.7	1096.4	1010.7	913.3	816.0	709.6
87.5°	1085.0	1071.4	1083.4	1148.0	1203.3	1170.2	1094.8	1008.4	914.5	817.8	709.6
90°	1112.9	1095.4	1104.2	1171.7	1228.4	1184.8	1093.3	1006.1	915.6	819.7	709.6
92.5°	1085.0	1071.4	1083.4	1148.0	1203.3	1170.2	1094.8	1008.4	914.5	817.8	709.6
95°	1056.4	1048.3	1065.6	1126.6	1177.3	1155.7	1096.4	1010.7	913.3	816.0	709.6
97.5°	1028.2	1025.7	1048.3	1105.8	1152.0	1137.7	1091.9	1006.7	907.1	809.6	709.6
100°	1000.6	1004.1	1031.9	1085.8	1127.7	1122.8	1088.8	1003.8	901.9	804.3	704.9
102.5°	973.7	983.7	1016.2	1066.7	1105.2	1109.7	1084.5	999.1	895.5	798.2	702.2
105°	948.1	964.8	1001.1	1048.4	1084.9	1099.4	1079.1	992.5	887.9	791.4	698.9
107.5°	923.8	947.4	986.1	1030.6	1067.5	1092.5	1072.5	983.9	879.0	783.9	695.0
110°	894.3	924.6	967.9	1013.3	1053.5	1090.0	1064.9	973.1	868.9	775.7	690.5



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	859.8	884.1	920.4	960.5	1001.9	1046.2	1018.9	936.0	843.5	759.0	681.3
115°	822.0	841.6	870.2	902.5	936.5	974.1	934.9	859.6	781.9	709.5	642.9
117.5°	779.5	794.8	816.5	841.6	869.3	894.9	852.5	785.5	722.0	661.3	605.3
120°	732.5	743.2	758.9	777.5	799.3	806.4	769.8	714.2	664.1	614.4	568.5
122.5°	681.9	687.1	697.0	709.8	726.4	720.5	689.4	647.5	608.7	569.2	532.9
125°	625.0	626.0	630.7	638.5	650.0	637.5	613.4	584.5	556.1	526.0	498.6
127.5°	562.1	559.0	559.7	563.6	567.1	557.7	542.3	525.2	506.4	485.2	465.6
130°	505.1	486.9	483.5	484.3	484.9	482.1	476.5	469.8	459.6	447.0	434.3
132.5°	477.0	457.5	439.3	423.7	413.6	412.9	417.0	418.8	416.0	410.9	404.0
135°	448.4	429.6	413.0	399.9	390.1	386.5	384.7	383.9	381.4	379.1	374.9
137.5°	418.3	401.7	386.2	375.0	367.4	362.6	361.3	359.1	355.8	352.7	346.2
140°	387.9	372.1	359.8	349.0	342.9	339.0	337.1	333.6	329.6	325.6	317.2
142.5°	356.3	343.3	331.3	323.5	317.3	314.6	311.6	307.2	302.7	297.9	287.9
145°	324.7	312.7	303.5	295.9	292.0	289.3	284.9	280.5	275.0	268.4	258.1
147.5°	291.5	282.1	274.2	268.9	266.1	262.2	257.3	252.0	246.4	238.1	227.9
150°	258.6	250.6	245.0	242.2	238.7	233.8	228.7	223.0	217.5	207.3	197.5
152.5°	224.4	219.9	217.2	214.0	209.3	204.4	198.8	192.9	185.2	176.0	165.8
155°	205.5	198.6	191.5	183.6	178.8	173.5	167.8	161.4	153.0	144.2	134.2
157.5°	190.9	183.7	176.3	168.8	161.1	153.2	145.2	135.6	125.7	115.6	105.0
160°	173.2	166.4	159.5	152.6	145.6	138.4	129.7	120.9	111.9	102.5	93.0
162.5°	154.3	147.8	141.8	135.6	129.0	121.4	113.6	105.7	97.6	89.3	80.9
165°	133.6	128.5	124.0	116.9	110.4	103.8	97.0	90.1	83.1	75.9	68.6
167.5°	112.2	107.2	102.0	96.7	91.2	85.6	80.0	74.3	68.4	62.3	57.2
170°	88.4	84.4	80.4	76.1	71.8	67.4	62.9	58.3	53.5	49.7	46.0
172.5°	64.4	61.6	58.6	55.5	52.3	49.0	45.6	42.9	40.3	37.6	34.8
175°	40.7	38.8	36.8	35.3	33.8	32.3	30.6	29.0	27.2	25.4	23.6
177.5°	20.3	19.6	18.9	18.2	17.5	16.7	15.9	15.0	14.2	13.3	12.4
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2.5°	11.4	10.5	9.5	8.5	8.4	8.4	8.3	8.2	8.1	7.9	7.8
5°	21.7	19.8	17.9	15.9	15.7	15.6	15.4	15.2	15.0	14.7	14.4
7.5°	32.0	29.2	26.2	23.3	23.1	22.8	22.5	22.2	21.8	21.4	20.9
10°	42.3	38.5	34.6	30.7	30.4	30.0	29.6	29.1	28.6	28.1	27.7
12.5°	52.6	47.8	43.0	38.0	37.6	37.2	36.6	36.0	35.5	35.0	34.4
15°	62.8	57.1	51.3	45.4	44.9	44.3	43.7	43.0	42.4	41.8	41.1
17.5°	73.0	66.4	59.7	52.8	52.2	51.5	50.7	50.0	49.3	48.6	47.8
20°	83.3	75.7	68.0	60.2	59.4	58.6	57.7	57.0	56.2	55.4	54.7
22.5°	94.3	84.9	76.3	67.6	66.7	65.7	64.7	63.9	63.0	62.3	61.6
25°	123.6	113.3	104.1	94.5	92.6	90.2	87.8	85.1	82.2	79.5	76.6
27.5°	154.2	142.4	132.1	121.4	118.4	115.1	111.5	107.6	103.8	99.8	95.7
30°	184.7	171.6	160.2	148.3	144.2	139.7	134.8	129.6	124.5	119.2	113.7
32.5°	215.1	201.0	188.2	175.2	169.8	164.0	157.6	151.0	144.4	137.7	131.0
35°	245.5	230.4	216.3	202.0	195.3	188.0	180.0	171.8	163.6	155.4	147.3
37.5°	275.7	259.8	244.3	228.9	220.7	211.7	201.9	192.0	182.4	172.5	162.6
40°	305.8	289.0	272.4	255.8	245.9	235.2	223.5	211.7	200.1	188.9	176.9
42.5°	335.6	318.2	300.5	282.7	271.1	258.4	245.2	230.9	217.6	205.1	190.4
45°	364.5	347.3	328.5	309.6	296.2	281.4	265.6	249.6	234.6	219.4	203.2
47.5°	388.8	367.8	345.0	323.4	307.3	290.1	272.6	255.9	241.0	225.8	209.8
50°	413.7	388.3	361.4	337.2	318.2	298.0	278.0	259.5	243.2	227.3	210.5
52.5°	439.7	409.2	377.9	351.0	328.9	305.5	283.1	263.1	245.3	229.1	212.1
55°	466.5	430.5	394.5	364.8	339.5	312.8	288.2	266.5	247.6	231.3	214.4
57.5°	494.2	452.2	411.1	378.6	350.1	320.0	293.0	269.9	250.2	233.7	217.6
60°	522.7	474.2	427.8	392.4	360.5	326.9	297.8	273.3	253.0	236.7	222.1
62.5°	551.7	496.3	444.5	406.2	370.8	333.8	302.6	276.5	256.1	240.3	226.2
65°	581.3	518.7	461.3	420.0	381.1	340.5	307.2	279.8	259.4	244.5	231.6
67.5°	611.3	541.2	478.0	433.8	391.4	347.2	311.9	283.1	263.0	249.1	237.4
70°	617.2	545.5	481.3	433.0	388.2	343.2	308.3	280.3	261.4	248.7	238.5
72.5°	620.9	548.9	484.6	432.1	385.0	339.1	304.3	276.9	258.8	246.4	236.7
75°	624.1	552.0	489.8	431.3	381.8	335.1	300.5	273.8	256.3	244.2	235.2
77.5°	626.8	554.8	492.5	430.4	378.6	331.3	297.0	271.0	254.0	242.2	233.9
80°	629.0	559.2	495.1	429.6	375.6	327.7	293.6	268.5	251.9	240.4	232.8
82.5°	632.6	560.6	497.8	428.7	372.6	324.2	290.5	266.1	250.0	238.7	231.9
85°	632.8	561.9	500.5	427.9	369.6	321.0	287.6	264.1	248.2	237.1	231.2
87.5°	633.1	563.3	503.1	427.0	366.8	317.9	284.8	262.2	246.6	235.6	230.5
90°	633.3	564.6	505.8	426.2	364.1	315.0	282.3	260.5	245.2	234.3	230.0
92.5°	633.1	563.3	503.1	427.0	366.8	317.9	284.8	262.2	246.6	235.6	230.5
95°	632.8	561.9	500.5	427.9	369.6	321.0	287.6	264.1	248.2	237.1	231.2
97.5°	632.6	560.6	497.8	428.7	372.6	324.2	290.5	266.1	250.0	238.7	231.9
100°	629.0	559.2	495.1	429.6	375.6	327.7	293.6	268.5	251.9	240.4	232.8
102.5°	626.8	554.8	492.5	430.4	378.6	331.3	297.0	271.0	254.0	242.2	233.9
105°	624.1	552.0	489.8	431.3	381.8	335.1	300.5	273.8	256.3	244.2	235.2
107.5°	620.9	548.9	484.6	432.1	385.0	339.1	304.3	276.9	258.8	246.4	236.7
110°	617.2	545.5	481.3	433.0	388.2	343.2	308.3	280.3	261.4	248.7	238.5



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	611.3	541.2	478.0	433.8	391.4	347.2	311.9	283.1	263.0	249.1	237.4
115°	581.3	518.7	461.3	420.0	381.1	340.5	307.2	279.8	259.4	244.5	231.6
117.5°	551.7	496.3	444.5	406.2	370.8	333.8	302.6	276.5	256.1	240.3	226.2
120°	522.7	474.2	427.8	392.4	360.5	326.9	297.8	273.3	253.0	236.7	222.1
122.5°	494.2	452.2	411.1	378.6	350.1	320.0	293.0	269.9	250.2	233.7	217.6
125°	466.5	430.5	394.5	364.8	339.5	312.8	288.2	266.5	247.6	231.3	214.4
127.5°	439.7	409.2	377.9	351.0	328.9	305.5	283.1	263.1	245.3	229.1	212.1
130°	413.7	388.3	361.4	337.2	318.2	298.0	278.0	259.5	243.2	227.3	210.5
132.5°	388.8	367.8	345.0	323.4	307.3	290.1	272.6	255.9	241.0	225.8	209.8
135°	364.5	347.3	328.5	309.6	296.2	281.4	265.6	249.6	234.6	219.4	203.2
137.5°	335.6	318.2	300.5	282.7	271.1	258.4	245.2	230.9	217.6	205.1	190.4
140°	305.8	289.0	272.4	255.8	245.9	235.2	223.5	211.7	200.1	188.9	176.9
142.5°	275.7	259.8	244.3	228.9	220.7	211.7	201.9	192.0	182.4	172.5	162.6
145°	245.5	230.4	216.3	202.0	195.3	188.0	180.0	171.8	163.6	155.4	147.3
147.5°	215.1	201.0	188.2	175.2	169.8	164.0	157.6	151.0	144.4	137.7	131.0
150°	184.7	171.6	160.2	148.3	144.2	139.7	134.8	129.6	124.5	119.2	113.7
152.5°	154.2	142.4	132.1	121.4	118.4	115.1	111.5	107.6	103.8	99.8	95.7
155°	123.6	113.3	104.1	94.5	92.6	90.2	87.8	85.1	82.2	79.5	76.6
157.5°	94.3	84.9	76.3	67.6	66.7	65.7	64.7	63.9	63.0	62.3	61.6
160°	83.3	75.7	68.0	60.2	59.4	58.6	57.7	57.0	56.2	55.4	54.7
162.5°	73.0	66.4	59.7	52.8	52.2	51.5	50.7	50.0	49.3	48.6	47.8
165°	62.8	57.1	51.3	45.4	44.9	44.3	43.7	43.0	42.4	41.8	41.1
167.5°	52.6	47.8	43.0	38.0	37.6	37.2	36.6	36.0	35.5	35.0	34.4
170°	42.3	38.5	34.6	30.7	30.4	30.0	29.6	29.1	28.6	28.1	27.7
172.5°	32.0	29.2	26.2	23.3	23.1	22.8	22.5	22.2	21.8	21.4	20.9
175°	21.7	19.8	17.9	15.9	15.7	15.6	15.4	15.2	15.0	14.7	14.4
177.5°	11.4	10.5	9.5	8.5	8.4	8.4	8.3	8.2	8.1	7.9	7.8
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2.5°	7.6	7.5	7.3	7.1	6.9	6.7	6.5	6.2	6.0	5.7	5.5
5°	14.1	13.7	13.4	13.0	12.6	12.3	11.9	11.5	11.1	10.7	10.2
7.5°	20.5	20.1	19.7	19.2	18.7	18.2	17.7	17.1	16.5	15.8	15.2
10°	27.2	26.7	26.1	25.5	24.8	24.2	23.5	22.8	22.0	21.2	20.3
12.5°	33.8	33.1	32.5	31.8	31.1	30.3	29.4	28.5	27.5	26.4	25.2
15°	40.4	39.7	39.0	38.2	37.3	36.3	35.1	33.9	32.7	31.4	30.0
17.5°	47.2	46.4	45.6	44.5	43.3	42.0	40.7	39.3	37.8	36.3	34.7
20°	54.0	53.1	51.9	50.6	49.2	47.7	46.2	44.6	43.0	41.5	39.8
22.5°	60.8	59.5	58.1	56.6	55.0	53.4	51.7	50.2	48.6	46.9	44.8
25°	73.2	69.7	66.1	62.6	60.8	59.3	57.7	56.0	54.0	51.8	49.5
27.5°	91.2	86.7	82.0	77.4	73.1	69.0	65.1	61.4	59.0	56.9	54.8
30°	108.2	102.3	96.5	90.8	85.3	80.0	74.9	70.3	66.5	63.1	59.6
32.5°	123.9	116.7	109.5	102.2	95.4	88.8	83.0	78.0	73.4	68.7	64.4
35°	138.6	129.8	120.6	111.8	103.5	96.1	89.7	83.7	78.0	73.0	68.9
37.5°	152.2	141.1	130.0	119.8	110.2	102.1	94.7	87.7	81.8	77.2	72.7
40°	164.5	151.0	138.2	126.2	116.0	106.7	98.3	91.2	85.7	80.7	75.8
42.5°	175.3	159.4	145.0	131.9	120.4	110.2	101.3	94.9	89.1	83.7	78.6
45°	184.8	167.1	150.6	136.6	124.0	112.7	105.0	98.2	92.2	86.6	81.3
47.5°	191.1	173.3	155.9	140.1	126.9	116.3	108.2	101.4	95.1	89.3	84.4
50°	192.3	175.1	159.0	144.0	130.0	120.0	111.6	104.5	98.0	92.6	87.4
52.5°	194.7	178.1	162.7	148.9	137.4	127.9	119.2	110.2	101.2	95.9	90.4
55°	198.0	182.4	167.6	154.9	145.7	137.6	129.6	121.0	112.1	102.8	94.1
57.5°	202.1	187.4	174.0	162.8	154.9	148.4	141.0	132.3	122.4	111.5	101.7
60°	207.0	193.1	181.2	172.2	165.8	160.1	153.2	143.4	131.2	118.9	107.8
62.5°	212.7	199.5	189.1	182.3	177.5	172.5	165.1	153.9	138.9	125.2	113.0
65°	219.1	207.1	197.9	193.1	190.0	185.6	176.6	162.4	145.8	130.5	117.2
67.5°	226.0	215.5	208.2	204.7	203.2	199.3	188.1	170.2	151.9	135.4	120.6
70°	228.8	220.8	216.6	216.4	216.5	212.3	199.1	177.4	157.4	139.7	123.4
72.5°	227.7	220.6	216.8	216.5	217.6	214.7	202.5	182.5	162.6	143.5	125.9
75°	226.8	220.5	216.8	216.4	217.2	213.7	201.5	183.4	164.4	145.7	128.0
77.5°	226.3	220.7	216.7	216.2	217.0	213.6	202.0	185.5	166.8	148.0	130.3
80°	226.0	221.0	216.5	215.8	216.7	214.1	203.8	188.6	169.8	150.9	133.3
82.5°	226.0	221.4	216.3	215.3	216.5	215.2	206.7	192.7	173.4	154.6	137.0
85°	226.1	222.0	216.0	214.8	216.3	216.7	210.4	197.7	177.8	159.0	141.5
87.5°	226.3	222.7	215.9	214.2	216.1	218.4	214.6	203.2	182.8	164.1	146.6
90°	226.7	223.4	215.8	213.6	215.8	220.2	219.1	209.3	188.6	170.0	152.6
92.5°	226.3	222.7	215.9	214.2	216.1	218.4	214.6	203.2	182.8	164.1	146.6
95°	226.1	222.0	216.0	214.8	216.3	216.7	210.4	197.7	177.8	159.0	141.5
97.5°	226.0	221.4	216.3	215.3	216.5	215.2	206.7	192.7	173.4	154.6	137.0
100°	226.0	221.0	216.5	215.8	216.7	214.1	203.8	188.6	169.8	150.9	133.3
102.5°	226.3	220.7	216.7	216.2	217.0	213.6	202.0	185.5	166.8	148.0	130.3
105°	226.8	220.5	216.8	216.4	217.2	213.7	201.5	183.4	164.4	145.7	128.0
107.5°	227.7	220.6	216.8	216.5	217.6	214.7	202.5	182.5	162.6	143.5	125.9
110°	228.8	220.8	216.6	216.4	216.5	212.3	199.1	177.4	157.4	139.7	123.4



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	226.0	215.5	208.2	204.7	203.2	199.3	188.1	170.2	151.9	135.4	120.6
115°	219.1	207.1	197.9	193.1	190.0	185.6	176.6	162.4	145.8	130.5	117.2
117.5°	212.7	199.5	189.1	182.3	177.5	172.5	165.1	153.9	138.9	125.2	113.0
120°	207.0	193.1	181.2	172.2	165.8	160.1	153.2	143.4	131.2	118.9	107.8
122.5°	202.1	187.4	174.0	162.8	154.9	148.4	141.0	132.3	122.4	111.5	101.7
125°	198.0	182.4	167.6	154.9	145.7	137.6	129.6	121.0	112.1	102.8	94.1
127.5°	194.7	178.1	162.7	148.9	137.4	127.9	119.2	110.2	101.2	95.9	90.4
130°	192.3	175.1	159.0	144.0	130.0	120.0	111.6	104.5	98.0	92.6	87.4
132.5°	191.1	173.3	155.9	140.1	126.9	116.3	108.2	101.4	95.1	89.3	84.4
135°	184.8	167.1	150.6	136.6	124.0	112.7	105.0	98.2	92.2	86.6	81.3
137.5°	175.3	159.4	145.0	131.9	120.4	110.2	101.3	94.9	89.1	83.7	78.6
140°	164.5	151.0	138.2	126.2	116.0	106.7	98.3	91.2	85.7	80.7	75.8
142.5°	152.2	141.1	130.0	119.8	110.2	102.1	94.7	87.7	81.8	77.2	72.7
145°	138.6	129.8	120.6	111.8	103.5	96.1	89.7	83.7	78.0	73.0	68.9
147.5°	123.9	116.7	109.5	102.2	95.4	88.8	83.0	78.0	73.4	68.7	64.4
150°	108.2	102.3	96.5	90.8	85.3	80.0	74.9	70.3	66.5	63.1	59.6
152.5°	91.2	86.7	82.0	77.4	73.1	69.0	65.1	61.4	59.0	56.9	54.8
155°	73.2	69.7	66.1	62.6	60.8	59.3	57.7	56.0	54.0	51.8	49.5
157.5°	60.8	59.5	58.1	56.6	55.0	53.4	51.7	50.2	48.6	46.9	44.8
160°	54.0	53.1	51.9	50.6	49.2	47.7	46.2	44.6	43.0	41.5	39.8
162.5°	47.2	46.4	45.6	44.5	43.3	42.0	40.7	39.3	37.8	36.3	34.7
165°	40.4	39.7	39.0	38.2	37.3	36.3	35.1	33.9	32.7	31.4	30.0
167.5°	33.8	33.1	32.5	31.8	31.1	30.3	29.4	28.5	27.5	26.4	25.2
170°	27.2	26.7	26.1	25.5	24.8	24.2	23.5	22.8	22.0	21.2	20.3
172.5°	20.5	20.1	19.7	19.2	18.7	18.2	17.7	17.1	16.5	15.8	15.2
175°	14.1	13.7	13.4	13.0	12.6	12.3	11.9	11.5	11.1	10.7	10.2
177.5°	7.6	7.5	7.3	7.1	6.9	6.7	6.5	6.2	6.0	5.7	5.5
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2.5°	5.2	4.9	4.7	4.4	4.1	3.8	3.5	3.2	2.9	2.6	2.2
5°	9.8	9.3	8.8	8.3	7.7	7.2	6.6	6.1	5.5	4.9	4.3
7.5°	14.5	13.8	13.1	12.3	11.6	10.8	9.9	9.1	8.2	7.4	6.5
10°	19.4	18.5	17.5	16.4	15.4	14.3	13.2	12.0	10.9	9.7	8.6
12.5°	24.1	22.9	21.6	20.3	19.0	17.7	16.3	14.9	13.5	12.0	10.6
15°	28.6	27.2	25.7	24.2	22.6	21.1	19.5	17.8	16.2	14.5	12.7
17.5°	33.2	31.6	30.0	28.3	26.5	24.7	22.8	20.8	18.8	16.8	14.8
20°	38.1	36.3	34.3	32.3	30.2	28.0	25.9	23.7	21.5	19.2	16.9
22.5°	42.7	40.6	38.4	36.2	34.0	31.7	29.4	26.8	24.2	21.5	18.9
25°	47.4	45.2	43.0	40.5	37.7	34.9	32.0	29.2	26.4	23.6	20.7
27.5°	52.5	49.7	46.7	43.7	40.8	37.9	34.9	31.9	28.8	25.7	22.5
30°	56.5	53.3	50.4	47.4	44.3	40.9	37.6	34.2	30.8	27.4	24.0
32.5°	60.8	57.5	54.3	50.7	47.1	43.5	39.9	36.3	32.6	29.0	25.4
35°	65.2	61.2	57.4	53.6	49.8	46.0	42.1	38.3	34.4	30.6	26.6
37.5°	68.4	64.2	60.1	56.2	52.4	48.3	44.2	39.9	35.6	31.5	27.5
40°	71.2	66.8	62.6	58.6	54.5	50.0	45.5	41.2	37.0	32.8	28.6
42.5°	73.8	69.5	65.2	60.6	55.9	51.5	47.3	42.8	38.1	33.5	29.0
45°	76.7	72.1	67.2	62.4	57.9	53.3	48.4	43.5	38.9	34.6	30.3
47.5°	79.5	74.4	69.5	64.7	59.7	54.5	49.6	44.8	40.2	35.7	31.2
50°	82.2	77.0	72.0	66.7	61.3	56.0	51.0	46.2	41.4	36.7	32.1
52.5°	85.0	79.7	74.2	68.6	62.9	57.6	52.5	47.5	42.6	38.0	33.6
55°	88.0	82.3	76.4	70.3	64.7	59.3	54.0	49.0	44.4	39.7	34.7
57.5°	92.9	85.1	78.4	72.4	66.7	61.0	55.9	51.1	45.8	40.6	34.9
60°	98.1	88.9	81.0	74.6	68.6	63.2	58.1	52.4	46.4	40.2	34.7
62.5°	101.9	91.7	83.3	76.4	70.7	65.6	59.6	52.9	46.2	40.3	34.7
65°	104.7	93.9	84.9	77.6	71.8	66.1	60.2	52.8	46.4	40.0	33.8
67.5°	107.0	95.3	86.1	78.6	71.6	64.9	58.2	52.8	46.1	39.1	32.6
70°	108.8	96.7	87.1	78.7	70.8	62.8	56.2	50.3	44.5	38.0	31.2
72.5°	110.1	98.0	87.7	78.3	69.2	60.9	54.1	47.6	41.4	35.6	29.8
75°	111.8	99.1	88.2	77.6	67.5	59.2	52.0	45.2	38.7	32.5	27.4
77.5°	114.5	101.0	88.6	76.9	66.1	57.7	50.3	43.1	36.2	29.8	24.7
80°	117.3	102.8	89.3	76.6	65.5	56.3	48.5	41.5	34.1	27.3	22.0
82.5°	120.4	104.9	90.1	76.7	64.9	54.8	46.1	38.6	31.6	25.2	19.2
85°	123.9	107.4	91.4	77.3	64.4	53.4	44.0	36.4	29.3	23.5	18.0
87.5°	128.1	110.5	93.2	78.6	64.5	52.5	42.4	34.7	27.9	22.8	18.3
90°	133.0	114.4	95.9	80.7	65.4	52.3	41.4	33.8	27.2	22.9	19.6
92.5°	128.1	110.5	93.2	78.6	64.5	52.5	42.4	34.7	27.9	22.8	18.3
95°	123.9	107.4	91.4	77.3	64.4	53.4	44.0	36.4	29.3	23.5	18.0
97.5°	120.4	104.9	90.1	76.7	64.9	54.8	46.1	38.6	31.6	25.2	19.2
100°	117.3	102.8	89.3	76.6	65.5	56.3	48.5	41.5	34.1	27.3	22.0
102.5°	114.5	101.0	88.6	76.9	66.1	57.7	50.3	43.1	36.2	29.8	24.7
105°	111.8	99.1	88.2	77.6	67.5	59.2	52.0	45.2	38.7	32.5	27.4
107.5°	110.1	98.0	87.7	78.3	69.2	60.9	54.1	47.6	41.4	35.6	29.8
110°	108.8	96.7	87.1	78.7	70.8	62.8	56.2	50.3	44.5	38.0	31.2



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	107.0	95.3	86.1	78.6	71.6	64.9	58.2	52.8	46.1	39.1	32.6
115°	104.7	93.9	84.9	77.6	71.8	66.1	60.2	52.8	46.4	40.0	33.8
117.5°	101.9	91.7	83.3	76.4	70.7	65.6	59.6	52.9	46.2	40.3	34.7
120°	98.1	88.9	81.0	74.6	68.6	63.2	58.1	52.4	46.4	40.2	34.7
122.5°	92.9	85.1	78.4	72.4	66.7	61.0	55.9	51.1	45.8	40.6	34.9
125°	88.0	82.3	76.4	70.3	64.7	59.3	54.0	49.0	44.4	39.7	34.7
127.5°	85.0	79.7	74.2	68.6	62.9	57.6	52.5	47.5	42.6	38.0	33.6
130°	82.2	77.0	72.0	66.7	61.3	56.0	51.0	46.2	41.4	36.7	32.1
132.5°	79.5	74.4	69.5	64.7	59.7	54.5	49.6	44.8	40.2	35.7	31.2
135°	76.7	72.1	67.2	62.4	57.9	53.3	48.4	43.5	38.9	34.6	30.3
137.5°	73.8	69.5	65.2	60.6	55.9	51.5	47.3	42.8	38.1	33.5	29.0
140°	71.2	66.8	62.6	58.6	54.5	50.0	45.5	41.2	37.0	32.8	28.6
142.5°	68.4	64.2	60.1	56.2	52.4	48.3	44.2	39.9	35.6	31.5	27.5
145°	65.2	61.2	57.4	53.6	49.8	46.0	42.1	38.3	34.4	30.6	26.6
147.5°	60.8	57.5	54.3	50.7	47.1	43.5	39.9	36.3	32.6	29.0	25.4
150°	56.5	53.3	50.4	47.4	44.3	40.9	37.6	34.2	30.8	27.4	24.0
152.5°	52.5	49.7	46.7	43.7	40.8	37.9	34.9	31.9	28.8	25.7	22.5
155°	47.4	45.2	43.0	40.5	37.7	34.9	32.0	29.2	26.4	23.6	20.7
157.5°	42.7	40.6	38.4	36.2	34.0	31.7	29.4	26.8	24.2	21.5	18.9
160°	38.1	36.3	34.3	32.3	30.2	28.0	25.9	23.7	21.5	19.2	16.9
162.5°	33.2	31.6	30.0	28.3	26.5	24.7	22.8	20.8	18.8	16.8	14.8
165°	28.6	27.2	25.7	24.2	22.6	21.1	19.5	17.8	16.2	14.5	12.7
167.5°	24.1	22.9	21.6	20.3	19.0	17.7	16.3	14.9	13.5	12.0	10.6
170°	19.4	18.5	17.5	16.4	15.4	14.3	13.2	12.0	10.9	9.7	8.6
172.5°	14.5	13.8	13.1	12.3	11.6	10.8	9.9	9.1	8.2	7.4	6.5
175°	9.8	9.3	8.8	8.3	7.7	7.2	6.6	6.1	5.5	4.9	4.3
177.5°	5.2	4.9	4.7	4.4	4.1	3.8	3.5	3.2	2.9	2.6	2.2
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2.5°	1.9	1.6	1.3	1.0	0.6	0.3	0.0	0.3	0.6	1.0	1.3
5°	3.7	3.1	2.5	1.9	1.2	0.6	0.0	0.6	1.2	1.9	2.5
7.5°	5.6	4.7	3.7	2.8	1.9	0.9	0.0	0.9	1.9	2.8	3.7
10°	7.4	6.1	4.9	3.7	2.5	1.2	0.0	1.2	2.5	3.7	4.9
12.5°	9.1	7.6	6.1	4.6	3.1	1.5	0.0	1.5	3.1	4.6	6.1
15°	10.9	9.2	7.4	5.5	3.7	1.8	0.0	1.8	3.7	5.5	7.4
17.5°	12.7	10.6	8.5	6.4	4.3	2.1	0.0	2.1	4.3	6.4	8.5
20°	14.6	12.2	9.8	7.4	4.9	2.5	0.0	2.5	4.9	7.4	9.8
22.5°	16.2	13.5	10.8	8.1	5.4	2.7	0.0	2.7	5.4	8.1	10.8
25°	17.8	14.9	11.9	9.0	6.0	3.0	0.0	3.0	6.0	9.0	11.9
27.5°	19.3	16.1	12.9	9.6	6.4	3.2	0.0	3.2	6.4	9.6	12.9
30°	20.5	17.1	13.7	10.3	6.9	3.4	0.0	3.4	6.9	10.3	13.7
32.5°	21.8	18.1	14.5	10.9	7.2	3.6	0.0	3.6	7.2	10.9	14.5
35°	22.7	18.8	15.0	11.2	7.5	3.7	0.0	3.7	7.5	11.2	15.0
37.5°	23.5	19.6	15.6	11.7	7.8	3.9	0.0	3.9	7.8	11.7	15.6
40°	24.3	20.1	16.0	12.0	7.9	4.0	0.0	4.0	7.9	12.0	16.0
42.5°	24.9	20.9	16.9	13.0	9.0	5.1	1.1	5.1	9.0	13.0	16.9
45°	26.1	21.8	17.6	13.5	9.3	5.2	1.1	5.2	9.3	13.5	17.6
47.5°	26.8	22.4	18.1	13.8	9.6	5.3	1.1	5.3	9.6	13.8	18.1
50°	27.6	23.3	18.9	14.5	10.0	5.6	1.1	5.6	10.0	14.5	18.9
52.5°	29.1	24.3	19.6	14.9	10.3	5.7	1.1	5.7	10.3	14.9	19.6
55°	29.7	24.6	19.6	14.8	10.2	5.6	1.1	5.6	10.2	14.8	19.6
57.5°	29.5	24.4	19.6	14.9	10.2	5.7	1.1	5.7	10.2	14.9	19.6
60°	29.7	24.7	19.5	14.7	10.0	5.5	1.1	5.5	10.0	14.7	19.5
62.5°	29.2	24.0	18.9	14.1	9.6	5.3	1.1	5.3	9.6	14.1	18.9
65°	28.1	22.9	18.1	13.4	9.1	5.0	1.1	5.0	9.1	13.4	18.1
67.5°	26.8	21.5	17.1	13.0	9.2	5.7	2.2	5.7	9.2	13.0	17.1
70°	25.3	20.5	16.5	12.8	9.0	5.6	2.2	5.6	9.0	12.8	16.5
72.5°	24.2	19.6	15.6	12.2	8.6	5.3	2.2	5.3	8.6	12.2	15.6
75°	23.3	18.6	14.5	10.9	7.4	4.5	2.2	4.5	7.4	10.9	14.5
77.5°	20.7	17.4	13.4	8.1	2.8	0.5	0.0	0.5	2.8	8.1	13.4
80°	17.4	14.5	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
82.5°	14.2	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	12.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	12.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	14.2	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	17.4	14.5	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
102.5°	20.7	17.4	13.4	8.1	2.8	0.5	0.0	0.5	2.8	8.1	13.4
105°	23.3	18.6	14.5	10.9	7.4	4.5	2.2	4.5	7.4	10.9	14.5
107.5°	24.2	19.6	15.6	12.2	8.6	5.3	2.2	5.3	8.6	12.2	15.6
110°	25.3	20.5	16.5	12.8	9.0	5.6	2.2	5.6	9.0	12.8	16.5



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	26.8	21.5	17.1	13.0	9.2	5.7	2.2	5.7	9.2	13.0	17.1
115°	28.1	22.9	18.1	13.4	9.1	5.0	1.1	5.0	9.1	13.4	18.1
117.5°	29.2	24.0	18.9	14.1	9.6	5.3	1.1	5.3	9.6	14.1	18.9
120°	29.7	24.7	19.5	14.7	10.0	5.5	1.1	5.5	10.0	14.7	19.5
122.5°	29.5	24.4	19.6	14.9	10.2	5.7	1.1	5.7	10.2	14.9	19.6
125°	29.7	24.6	19.6	14.8	10.2	5.6	1.1	5.6	10.2	14.8	19.6
127.5°	29.1	24.3	19.6	14.9	10.3	5.7	1.1	5.7	10.3	14.9	19.6
130°	27.6	23.3	18.9	14.5	10.0	5.6	1.1	5.6	10.0	14.5	18.9
132.5°	26.8	22.4	18.1	13.8	9.6	5.3	1.1	5.3	9.6	13.8	18.1
135°	26.1	21.8	17.6	13.5	9.3	5.2	1.1	5.2	9.3	13.5	17.6
137.5°	24.9	20.9	16.9	13.0	9.0	5.1	1.1	5.1	9.0	13.0	16.9
140°	24.3	20.1	16.0	12.0	7.9	4.0	0.0	4.0	7.9	12.0	16.0
142.5°	23.5	19.6	15.6	11.7	7.8	3.9	0.0	3.9	7.8	11.7	15.6
145°	22.7	18.8	15.0	11.2	7.5	3.7	0.0	3.7	7.5	11.2	15.0
147.5°	21.8	18.1	14.5	10.9	7.2	3.6	0.0	3.6	7.2	10.9	14.5
150°	20.5	17.1	13.7	10.3	6.9	3.4	0.0	3.4	6.9	10.3	13.7
152.5°	19.3	16.1	12.9	9.6	6.4	3.2	0.0	3.2	6.4	9.6	12.9
155°	17.8	14.9	11.9	9.0	6.0	3.0	0.0	3.0	6.0	9.0	11.9
157.5°	16.2	13.5	10.8	8.1	5.4	2.7	0.0	2.7	5.4	8.1	10.8
160°	14.6	12.2	9.8	7.4	4.9	2.5	0.0	2.5	4.9	7.4	9.8
162.5°	12.7	10.6	8.5	6.4	4.3	2.1	0.0	2.1	4.3	6.4	8.5
165°	10.9	9.2	7.4	5.5	3.7	1.8	0.0	1.8	3.7	5.5	7.4
167.5°	9.1	7.6	6.1	4.6	3.1	1.5	0.0	1.5	3.1	4.6	6.1
170°	7.4	6.1	4.9	3.7	2.5	1.2	0.0	1.2	2.5	3.7	4.9
172.5°	5.6	4.7	3.7	2.8	1.9	0.9	0.0	0.9	1.9	2.8	3.7
175°	3.7	3.1	2.5	1.9	1.2	0.6	0.0	0.6	1.2	1.9	2.5
177.5°	1.9	1.6	1.3	1.0	0.6	0.3	0.0	0.3	0.6	1.0	1.3
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2.5°	1.6	1.9	2.2	2.6	2.9	3.2	3.5	3.8	4.1	4.4	4.7
5°	3.1	3.7	4.3	4.9	5.5	6.1	6.6	7.2	7.7	8.3	8.8
7.5°	4.7	5.6	6.5	7.4	8.2	9.1	9.9	10.8	11.6	12.3	13.1
10°	6.1	7.4	8.6	9.7	10.9	12.0	13.2	14.3	15.4	16.4	17.5
12.5°	7.6	9.1	10.6	12.0	13.5	14.9	16.3	17.7	19.0	20.3	21.6
15°	9.2	10.9	12.7	14.5	16.2	17.8	19.5	21.1	22.6	24.2	25.7
17.5°	10.6	12.7	14.8	16.8	18.8	20.8	22.8	24.7	26.5	28.3	30.0
20°	12.2	14.6	16.9	19.2	21.5	23.7	25.9	28.0	30.2	32.3	34.3
22.5°	13.5	16.2	18.9	21.5	24.2	26.8	29.4	31.7	34.0	36.2	38.4
25°	14.9	17.8	20.7	23.6	26.4	29.2	32.0	34.9	37.7	40.5	43.0
27.5°	16.1	19.3	22.5	25.7	28.8	31.9	34.9	37.9	40.8	43.7	46.7
30°	17.1	20.5	24.0	27.4	30.8	34.2	37.6	40.9	44.3	47.4	50.4
32.5°	18.1	21.8	25.4	29.0	32.6	36.3	39.9	43.5	47.1	50.7	54.3
35°	18.8	22.7	26.6	30.6	34.4	38.3	42.1	46.0	49.8	53.6	57.4
37.5°	19.6	23.5	27.5	31.5	35.6	39.9	44.2	48.3	52.4	56.2	60.1
40°	20.1	24.3	28.6	32.8	37.0	41.2	45.5	50.0	54.5	58.6	62.6
42.5°	20.9	24.9	29.0	33.5	38.1	42.8	47.3	51.5	55.9	60.6	65.2
45°	21.8	26.1	30.3	34.6	38.9	43.5	48.4	53.3	57.9	62.4	67.2
47.5°	22.4	26.8	31.2	35.7	40.2	44.8	49.6	54.5	59.7	64.7	69.5
50°	23.3	27.6	32.1	36.7	41.4	46.2	51.0	56.0	61.3	66.7	72.0
52.5°	24.3	29.1	33.6	38.0	42.6	47.5	52.5	57.6	62.9	68.6	74.2
55°	24.6	29.7	34.7	39.7	44.4	49.0	54.0	59.3	64.7	70.3	76.4
57.5°	24.4	29.5	34.9	40.6	45.8	51.1	55.9	61.0	66.7	72.4	78.4
60°	24.7	29.7	34.7	40.2	46.4	52.4	58.1	63.2	68.6	74.6	81.0
62.5°	24.0	29.2	34.7	40.3	46.2	52.9	59.6	65.6	70.7	76.4	83.3
65°	22.9	28.1	33.8	40.0	46.4	52.8	60.2	66.1	71.8	77.6	84.9
67.5°	21.5	26.8	32.6	39.1	46.1	52.8	58.2	64.9	71.6	78.6	86.1
70°	20.5	25.3	31.2	38.0	44.5	50.3	56.2	62.8	70.8	78.7	87.1
72.5°	19.6	24.2	29.8	35.6	41.4	47.6	54.1	60.9	69.2	78.3	87.7
75°	18.6	23.3	27.4	32.5	38.7	45.2	52.0	59.2	67.5	77.6	88.2
77.5°	17.4	20.7	24.7	29.8	36.2	43.1	50.3	57.7	66.1	76.9	88.6
80°	14.5	17.4	22.0	27.3	34.1	41.5	48.5	56.3	65.5	76.6	89.3
82.5°	9.4	14.2	19.2	25.2	31.6	38.6	46.1	54.8	64.9	76.7	90.1
85°	3.8	12.3	18.0	23.5	29.3	36.4	44.0	53.4	64.4	77.3	91.4
87.5°	1.2	12.8	18.3	22.8	27.9	34.7	42.4	52.5	64.5	78.6	93.2
90°	0.0	14.2	19.6	22.9	27.2	33.8	41.4	52.3	65.4	80.7	95.9
92.5°	1.2	12.8	18.3	22.8	27.9	34.7	42.4	52.5	64.5	78.6	93.2
95°	3.8	12.3	18.0	23.5	29.3	36.4	44.0	53.4	64.4	77.3	91.4
97.5°	9.4	14.2	19.2	25.2	31.6	38.6	46.1	54.8	64.9	76.7	90.1
100°	14.5	17.4	22.0	27.3	34.1	41.5	48.5	56.3	65.5	76.6	89.3
102.5°	17.4	20.7	24.7	29.8	36.2	43.1	50.3	57.7	66.1	76.9	88.6
105°	18.6	23.3	27.4	32.5	38.7	45.2	52.0	59.2	67.5	77.6	88.2
107.5°	19.6	24.2	29.8	35.6	41.4	47.6	54.1	60.9	69.2	78.3	87.7
110°	20.5	25.3	31.2	38.0	44.5	50.3	56.2	62.8	70.8	78.7	87.1



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	21.5	26.8	32.6	39.1	46.1	52.8	58.2	64.9	71.6	78.6	86.1
115°	22.9	28.1	33.8	40.0	46.4	52.8	60.2	66.1	71.8	77.6	84.9
117.5°	24.0	29.2	34.7	40.3	46.2	52.9	59.6	65.6	70.7	76.4	83.3
120°	24.7	29.7	34.7	40.2	46.4	52.4	58.1	63.2	68.6	74.6	81.0
122.5°	24.4	29.5	34.9	40.6	45.8	51.1	55.9	61.0	66.7	72.4	78.4
125°	24.6	29.7	34.7	39.7	44.4	49.0	54.0	59.3	64.7	70.3	76.4
127.5°	24.3	29.1	33.6	38.0	42.6	47.5	52.5	57.6	62.9	68.6	74.2
130°	23.3	27.6	32.1	36.7	41.4	46.2	51.0	56.0	61.3	66.7	72.0
132.5°	22.4	26.8	31.2	35.7	40.2	44.8	49.6	54.5	59.7	64.7	69.5
135°	21.8	26.1	30.3	34.6	38.9	43.5	48.4	53.3	57.9	62.4	67.2
137.5°	20.9	24.9	29.0	33.5	38.1	42.8	47.3	51.5	55.9	60.6	65.2
140°	20.1	24.3	28.6	32.8	37.0	41.2	45.5	50.0	54.5	58.6	62.6
142.5°	19.6	23.5	27.5	31.5	35.6	39.9	44.2	48.3	52.4	56.2	60.1
145°	18.8	22.7	26.6	30.6	34.4	38.3	42.1	46.0	49.8	53.6	57.4
147.5°	18.1	21.8	25.4	29.0	32.6	36.3	39.9	43.5	47.1	50.7	54.3
150°	17.1	20.5	24.0	27.4	30.8	34.2	37.6	40.9	44.3	47.4	50.4
152.5°	16.1	19.3	22.5	25.7	28.8	31.9	34.9	37.9	40.8	43.7	46.7
155°	14.9	17.8	20.7	23.6	26.4	29.2	32.0	34.9	37.7	40.5	43.0
157.5°	13.5	16.2	18.9	21.5	24.2	26.8	29.4	31.7	34.0	36.2	38.4
160°	12.2	14.6	16.9	19.2	21.5	23.7	25.9	28.0	30.2	32.3	34.3
162.5°	10.6	12.7	14.8	16.8	18.8	20.8	22.8	24.7	26.5	28.3	30.0
165°	9.2	10.9	12.7	14.5	16.2	17.8	19.5	21.1	22.6	24.2	25.7
167.5°	7.6	9.1	10.6	12.0	13.5	14.9	16.3	17.7	19.0	20.3	21.6
170°	6.1	7.4	8.6	9.7	10.9	12.0	13.2	14.3	15.4	16.4	17.5
172.5°	4.7	5.6	6.5	7.4	8.2	9.1	9.9	10.8	11.6	12.3	13.1
175°	3.1	3.7	4.3	4.9	5.5	6.1	6.6	7.2	7.7	8.3	8.8
177.5°	1.6	1.9	2.2	2.6	2.9	3.2	3.5	3.8	4.1	4.4	4.7
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2.5°	4.9	5.2	5.5	5.7	6.0	6.2	6.5	6.7	6.9	7.1	7.3
5°	9.3	9.8	10.2	10.7	11.1	11.5	11.9	12.3	12.6	13.0	13.4
7.5°	13.8	14.5	15.2	15.8	16.5	17.1	17.7	18.2	18.7	19.2	19.7
10°	18.5	19.4	20.3	21.2	22.0	22.8	23.5	24.2	24.8	25.5	26.1
12.5°	22.9	24.1	25.2	26.4	27.5	28.5	29.4	30.3	31.1	31.8	32.5
15°	27.2	28.6	30.0	31.4	32.7	33.9	35.1	36.3	37.3	38.2	39.0
17.5°	31.6	33.2	34.7	36.3	37.8	39.3	40.7	42.0	43.3	44.5	45.6
20°	36.3	38.1	39.8	41.5	43.0	44.6	46.2	47.7	49.2	50.6	51.9
22.5°	40.6	42.7	44.8	46.9	48.6	50.2	51.7	53.4	55.0	56.6	58.1
25°	45.2	47.4	49.5	51.8	54.0	56.0	57.7	59.3	60.8	62.6	66.1
27.5°	49.7	52.5	54.8	56.9	59.0	61.4	65.1	69.0	73.1	77.4	82.0
30°	53.3	56.5	59.6	63.1	66.5	70.3	74.9	80.0	85.3	90.8	96.5
32.5°	57.5	60.8	64.4	68.7	73.4	78.0	83.0	88.8	95.4	102.2	109.5
35°	61.2	65.2	68.9	73.0	78.0	83.7	89.7	96.1	103.5	111.8	120.6
37.5°	64.2	68.4	72.7	77.2	81.8	87.7	94.7	102.1	110.2	119.8	130.0
40°	66.8	71.2	75.8	80.7	85.7	91.2	98.3	106.7	116.0	126.2	138.2
42.5°	69.5	73.8	78.6	83.7	89.1	94.9	101.3	110.2	120.4	131.9	145.0
45°	72.1	76.7	81.3	86.6	92.2	98.2	105.0	112.7	124.0	136.6	150.6
47.5°	74.4	79.5	84.4	89.3	95.1	101.4	108.2	116.3	126.9	140.1	155.9
50°	77.0	82.2	87.4	92.6	98.0	104.5	111.6	120.0	130.0	144.0	159.0
52.5°	79.7	85.0	90.4	95.9	101.2	110.2	119.2	127.9	137.4	148.9	162.7
55°	82.3	88.0	94.1	102.8	112.1	121.0	129.6	137.6	145.7	154.9	167.6
57.5°	85.1	92.9	101.7	111.5	122.4	132.3	141.0	148.4	154.9	162.8	174.0
60°	88.9	98.1	107.8	118.9	131.2	143.4	153.2	160.1	165.8	172.2	181.2
62.5°	91.7	101.9	113.0	125.2	138.9	153.9	165.1	172.5	177.5	182.3	189.1
65°	93.9	104.7	117.2	130.5	145.8	162.4	176.6	185.6	190.0	193.1	197.9
67.5°	95.3	107.0	120.6	135.4	151.9	170.2	188.1	199.3	203.2	204.7	208.2
70°	96.7	108.8	123.4	139.7	157.4	177.4	199.1	212.3	216.5	216.4	216.6
72.5°	98.0	110.1	125.9	143.5	162.6	182.5	202.5	214.7	217.6	216.5	216.8
75°	99.1	111.8	128.0	145.7	164.4	183.4	201.5	213.7	217.2	216.4	216.8
77.5°	101.0	114.5	130.3	148.0	166.8	185.5	202.0	213.6	217.0	216.2	216.7
80°	102.8	117.3	133.3	150.9	169.8	188.6	203.8	214.1	216.7	215.8	216.5
82.5°	104.9	120.4	137.0	154.6	173.4	192.7	206.7	215.2	216.5	215.3	216.3
85°	107.4	123.9	141.5	159.0	177.8	197.7	210.4	216.7	216.3	214.8	216.0
87.5°	110.5	128.1	146.6	164.1	182.8	203.2	214.6	218.4	216.1	214.2	215.9
90°	114.4	133.0	152.6	170.0	188.6	209.3	219.1	220.2	215.8	213.6	215.8
92.5°	110.5	128.1	146.6	164.1	182.8	203.2	214.6	218.4	216.1	214.2	215.9
95°	107.4	123.9	141.5	159.0	177.8	197.7	210.4	216.7	216.3	214.8	216.0
97.5°	104.9	120.4	137.0	154.6	173.4	192.7	206.7	215.2	216.5	215.3	216.3
100°	102.8	117.3	133.3	150.9	169.8	188.6	203.8	214.1	216.7	215.8	216.5
102.5°	101.0	114.5	130.3	148.0	166.8	185.5	202.0	213.6	217.0	216.2	216.7
105°	99.1	111.8	128.0	145.7	164.4	183.4	201.5	213.7	217.2	216.4	216.8
107.5°	98.0	110.1	125.9	143.5	162.6	182.5	202.5	214.7	217.6	216.5	216.8
110°	96.7	108.8	123.4	139.7	157.4	177.4	199.1	212.3	216.5	216.4	216.6



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	95.3	107.0	120.6	135.4	151.9	170.2	188.1	199.3	203.2	204.7	208.2
115°	93.9	104.7	117.2	130.5	145.8	162.4	176.6	185.6	190.0	193.1	197.9
117.5°	91.7	101.9	113.0	125.2	138.9	153.9	165.1	172.5	177.5	182.3	189.1
120°	88.9	98.1	107.8	118.9	131.2	143.4	153.2	160.1	165.8	172.2	181.2
122.5°	85.1	92.9	101.7	111.5	122.4	132.3	141.0	148.4	154.9	162.8	174.0
125°	82.3	88.0	94.1	102.8	112.1	121.0	129.6	137.6	145.7	154.9	167.6
127.5°	79.7	85.0	90.4	95.9	101.2	110.2	119.2	127.9	137.4	148.9	162.7
130°	77.0	82.2	87.4	92.6	98.0	104.5	111.6	120.0	130.0	144.0	159.0
132.5°	74.4	79.5	84.4	89.3	95.1	101.4	108.2	116.3	126.9	140.1	155.9
135°	72.1	76.7	81.3	86.6	92.2	98.2	105.0	112.7	124.0	136.6	150.6
137.5°	69.5	73.8	78.6	83.7	89.1	94.9	101.3	110.2	120.4	131.9	145.0
140°	66.8	71.2	75.8	80.7	85.7	91.2	98.3	106.7	116.0	126.2	138.2
142.5°	64.2	68.4	72.7	77.2	81.8	87.7	94.7	102.1	110.2	119.8	130.0
145°	61.2	65.2	68.9	73.0	78.0	83.7	89.7	96.1	103.5	111.8	120.6
147.5°	57.5	60.8	64.4	68.7	73.4	78.0	83.0	88.8	95.4	102.2	109.5
150°	53.3	56.5	59.6	63.1	66.5	70.3	74.9	80.0	85.3	90.8	96.5
152.5°	49.7	52.5	54.8	56.9	59.0	61.4	65.1	69.0	73.1	77.4	82.0
155°	45.2	47.4	49.5	51.8	54.0	56.0	57.7	59.3	60.8	62.6	66.1
157.5°	40.6	42.7	44.8	46.9	48.6	50.2	51.7	53.4	55.0	56.6	58.1
160°	36.3	38.1	39.8	41.5	43.0	44.6	46.2	47.7	49.2	50.6	51.9
162.5°	31.6	33.2	34.7	36.3	37.8	39.3	40.7	42.0	43.3	44.5	45.6
165°	27.2	28.6	30.0	31.4	32.7	33.9	35.1	36.3	37.3	38.2	39.0
167.5°	22.9	24.1	25.2	26.4	27.5	28.5	29.4	30.3	31.1	31.8	32.5
170°	18.5	19.4	20.3	21.2	22.0	22.8	23.5	24.2	24.8	25.5	26.1
172.5°	13.8	14.5	15.2	15.8	16.5	17.1	17.7	18.2	18.7	19.2	19.7
175°	9.3	9.8	10.2	10.7	11.1	11.5	11.9	12.3	12.6	13.0	13.4
177.5°	4.9	5.2	5.5	5.7	6.0	6.2	6.5	6.7	6.9	7.1	7.3
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2.5°	7.5	7.6	7.8	7.9	8.1	8.2	8.3	8.4	8.4	8.5	9.5
5°	13.7	14.1	14.4	14.7	15.0	15.2	15.4	15.6	15.7	15.9	17.9
7.5°	20.1	20.5	20.9	21.4	21.8	22.2	22.5	22.8	23.1	23.3	26.2
10°	26.7	27.2	27.7	28.1	28.6	29.1	29.6	30.0	30.4	30.7	34.6
12.5°	33.1	33.8	34.4	35.0	35.5	36.0	36.6	37.2	37.6	38.0	43.0
15°	39.7	40.4	41.1	41.8	42.4	43.0	43.7	44.3	44.9	45.4	51.3
17.5°	46.4	47.2	47.8	48.6	49.3	50.0	50.7	51.5	52.2	52.8	59.7
20°	53.1	54.0	54.7	55.4	56.2	57.0	57.7	58.6	59.4	60.2	68.0
22.5°	59.5	60.8	61.6	62.3	63.0	63.9	64.7	65.7	66.7	67.6	76.3
25°	69.7	73.2	76.6	79.5	82.2	85.1	87.8	90.2	92.6	94.5	104.1
27.5°	86.7	91.2	95.7	99.8	103.8	107.6	111.5	115.1	118.4	121.4	132.1
30°	102.3	108.2	113.7	119.2	124.5	129.6	134.8	139.7	144.2	148.3	160.2
32.5°	116.7	123.9	131.0	137.7	144.4	151.0	157.6	164.0	169.8	175.2	188.2
35°	129.8	138.6	147.3	155.4	163.6	171.8	180.0	188.0	195.3	202.0	216.3
37.5°	141.1	152.2	162.6	172.5	182.4	192.0	201.9	211.7	220.7	228.9	244.3
40°	151.0	164.5	176.9	188.9	200.1	211.7	223.5	235.2	245.9	255.8	272.4
42.5°	159.4	175.3	190.4	205.1	217.6	230.9	245.2	258.4	271.1	282.7	300.5
45°	167.1	184.8	203.2	219.4	234.6	249.6	265.6	281.4	296.2	309.6	328.5
47.5°	173.3	191.1	209.8	225.8	241.0	255.9	272.6	290.1	307.3	323.4	345.0
50°	175.1	192.3	210.5	227.3	243.2	259.5	278.0	298.0	318.2	337.2	361.4
52.5°	178.1	194.7	212.1	229.1	245.3	263.1	283.1	305.5	328.9	351.0	377.9
55°	182.4	198.0	214.4	231.3	247.6	266.5	288.2	312.8	339.5	364.8	394.5
57.5°	187.4	202.1	217.6	233.7	250.2	269.9	293.0	320.0	350.1	378.6	411.1
60°	193.1	207.0	222.1	236.7	253.0	273.3	297.8	326.9	360.5	392.4	427.8
62.5°	199.5	212.7	226.2	240.3	256.1	276.5	302.6	333.8	370.8	406.2	444.5
65°	207.1	219.1	231.6	244.5	259.4	279.8	307.2	340.5	381.1	420.0	461.3
67.5°	215.5	226.0	237.4	249.1	263.0	283.1	311.9	347.2	391.4	433.8	478.0
70°	220.8	228.8	238.5	248.7	261.4	280.3	308.3	343.2	388.2	433.0	481.3
72.5°	220.6	227.7	236.7	246.4	258.8	276.9	304.3	339.1	385.0	432.1	484.6
75°	220.5	226.8	235.2	244.2	256.3	273.8	300.5	335.1	381.8	431.3	489.8
77.5°	220.7	226.3	233.9	242.2	254.0	271.0	297.0	331.3	378.6	430.4	492.5
80°	221.0	226.0	232.8	240.4	251.9	268.5	293.6	327.7	375.6	429.6	495.1
82.5°	221.4	226.0	231.9	238.7	250.0	266.1	290.5	324.2	372.6	428.7	497.8
85°	222.0	226.1	231.2	237.1	248.2	264.1	287.6	321.0	369.6	427.9	500.5
87.5°	222.7	226.3	230.5	235.6	246.6	262.2	284.8	317.9	366.8	427.0	503.1
90°	223.4	226.7	230.0	234.3	245.2	260.5	282.3	315.0	364.1	426.2	505.8
92.5°	222.7	226.3	230.5	235.6	246.6	262.2	284.8	317.9	366.8	427.0	503.1
95°	222.0	226.1	231.2	237.1	248.2	264.1	287.6	321.0	369.6	427.9	500.5
97.5°	221.4	226.0	231.9	238.7	250.0	266.1	290.5	324.2	372.6	428.7	497.8
100°	221.0	226.0	232.8	240.4	251.9	268.5	293.6	327.7	375.6	429.6	495.1
102.5°	220.7	226.3	233.9	242.2	254.0	271.0	297.0	331.3	378.6	430.4	492.5
105°	220.5	226.8	235.2	244.2	256.3	273.8	300.5	335.1	381.8	431.3	489.8
107.5°	220.6	227.7	236.7	246.4	258.8	276.9	304.3	339.1	385.0	432.1	484.6
110°	220.8	228.8	238.5	248.7	261.4	280.3	308.3	343.2	388.2	433.0	481.3



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	215.5	226.0	237.4	249.1	263.0	283.1	311.9	347.2	391.4	433.8	478.0
115°	207.1	219.1	231.6	244.5	259.4	279.8	307.2	340.5	381.1	420.0	461.3
117.5°	199.5	212.7	226.2	240.3	256.1	276.5	302.6	333.8	370.8	406.2	444.5
120°	193.1	207.0	222.1	236.7	253.0	273.3	297.8	326.9	360.5	392.4	427.8
122.5°	187.4	202.1	217.6	233.7	250.2	269.9	293.0	320.0	350.1	378.6	411.1
125°	182.4	198.0	214.4	231.3	247.6	266.5	288.2	312.8	339.5	364.8	394.5
127.5°	178.1	194.7	212.1	229.1	245.3	263.1	283.1	305.5	328.9	351.0	377.9
130°	175.1	192.3	210.5	227.3	243.2	259.5	278.0	298.0	318.2	337.2	361.4
132.5°	173.3	191.1	209.8	225.8	241.0	255.9	272.6	290.1	307.3	323.4	345.0
135°	167.1	184.8	203.2	219.4	234.6	249.6	265.6	281.4	296.2	309.6	328.5
137.5°	159.4	175.3	190.4	205.1	217.6	230.9	245.2	258.4	271.1	282.7	300.5
140°	151.0	164.5	176.9	188.9	200.1	211.7	223.5	235.2	245.9	255.8	272.4
142.5°	141.1	152.2	162.6	172.5	182.4	192.0	201.9	211.7	220.7	228.9	244.3
145°	129.8	138.6	147.3	155.4	163.6	171.8	180.0	188.0	195.3	202.0	216.3
147.5°	116.7	123.9	131.0	137.7	144.4	151.0	157.6	164.0	169.8	175.2	188.2
150°	102.3	108.2	113.7	119.2	124.5	129.6	134.8	139.7	144.2	148.3	160.2
152.5°	86.7	91.2	95.7	99.8	103.8	107.6	111.5	115.1	118.4	121.4	132.1
155°	69.7	73.2	76.6	79.5	82.2	85.1	87.8	90.2	92.6	94.5	104.1
157.5°	59.5	60.8	61.6	62.3	63.0	63.9	64.7	65.7	66.7	67.6	76.3
160°	53.1	54.0	54.7	55.4	56.2	57.0	57.7	58.6	59.4	60.2	68.0
162.5°	46.4	47.2	47.8	48.6	49.3	50.0	50.7	51.5	52.2	52.8	59.7
165°	39.7	40.4	41.1	41.8	42.4	43.0	43.7	44.3	44.9	45.4	51.3
167.5°	33.1	33.8	34.4	35.0	35.5	36.0	36.6	37.2	37.6	38.0	43.0
170°	26.7	27.2	27.7	28.1	28.6	29.1	29.6	30.0	30.4	30.7	34.6
172.5°	20.1	20.5	20.9	21.4	21.8	22.2	22.5	22.8	23.1	23.3	26.2
175°	13.7	14.1	14.4	14.7	15.0	15.2	15.4	15.6	15.7	15.9	17.9
177.5°	7.5	7.6	7.8	7.9	8.1	8.2	8.3	8.4	8.4	8.5	9.5
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2.5°	10.5	11.4	12.4	13.3	14.2	15.0	15.9	16.7	17.5	18.2	18.9
5°	19.8	21.7	23.6	25.4	27.2	29.0	30.6	32.3	33.8	35.3	36.8
7.5°	29.2	32.0	34.8	37.6	40.3	42.9	45.6	49.0	52.3	55.5	58.6
10°	38.5	42.3	46.0	49.7	53.5	58.3	62.9	67.4	71.8	76.1	80.4
12.5°	47.8	52.6	57.2	62.3	68.4	74.3	80.0	85.6	91.2	96.7	102.0
15°	57.1	62.8	68.6	75.9	83.1	90.1	97.0	103.8	110.4	116.9	124.0
17.5°	66.4	73.0	80.9	89.3	97.6	105.7	113.6	121.4	129.0	135.6	141.8
20°	75.7	83.3	93.0	102.5	111.9	120.9	129.7	138.4	145.6	152.6	159.5
22.5°	84.9	94.3	105.0	115.6	125.7	135.6	145.2	153.2	161.1	168.8	176.3
25°	113.3	123.6	134.2	144.2	153.0	161.4	167.8	173.5	178.8	183.6	191.5
27.5°	142.4	154.2	165.8	176.0	185.2	192.9	198.8	204.4	209.3	214.0	217.2
30°	171.6	184.7	197.5	207.3	217.5	223.0	228.7	233.8	238.7	242.2	245.0
32.5°	201.0	215.1	227.9	238.1	246.4	252.0	257.3	262.2	266.1	268.9	274.2
35°	230.4	245.5	258.1	268.4	275.0	280.5	284.9	289.3	292.0	295.9	303.5
37.5°	259.8	275.7	287.9	297.9	302.7	307.2	311.6	314.6	317.3	323.5	331.3
40°	289.0	305.8	317.2	325.6	329.6	333.6	337.1	339.0	342.9	349.0	359.8
42.5°	318.2	335.6	346.2	352.7	355.8	359.1	361.3	362.6	367.4	375.0	386.2
45°	347.3	364.5	374.9	379.1	381.4	383.9	384.7	386.5	390.1	399.9	413.0
47.5°	367.8	388.8	404.0	410.9	416.0	418.8	417.0	412.9	413.6	423.7	439.3
50°	388.3	413.7	434.3	447.0	459.6	469.8	476.5	482.1	484.9	484.3	483.5
52.5°	409.2	439.7	465.6	485.2	506.4	525.2	542.3	557.7	567.1	563.6	559.7
55°	430.5	466.5	498.6	526.0	556.1	584.5	613.4	637.5	650.0	638.5	630.7
57.5°	452.2	494.2	532.9	569.2	608.7	647.5	689.4	720.5	726.4	709.8	697.0
60°	474.2	522.7	568.5	614.4	664.1	714.2	769.8	806.4	799.3	777.5	758.9
62.5°	496.3	551.7	605.3	661.3	722.0	785.5	852.5	894.9	869.3	841.6	816.5
65°	518.7	581.3	642.9	709.5	781.9	859.6	934.9	974.1	936.5	902.5	870.2
67.5°	541.2	611.3	681.3	759.0	843.5	936.0	1018.9	1046.2	1001.9	960.5	920.4
70°	545.5	617.2	690.5	775.7	868.9	973.1	1064.9	1090.0	1053.5	1013.3	967.9
72.5°	548.9	620.9	695.0	783.9	879.0	983.9	1072.5	1092.5	1067.5	1030.6	986.1
75°	552.0	624.1	698.9	791.4	887.9	992.5	1079.1	1099.4	1084.9	1048.4	1001.1
77.5°	554.8	626.8	702.2	798.2	895.5	999.1	1084.5	1109.7	1105.2	1066.7	1016.2
80°	559.2	629.0	704.9	804.3	901.9	1003.8	1088.8	1122.8	1127.7	1085.8	1031.9
82.5°	560.6	632.6	709.6	809.6	907.1	1006.7	1091.9	1137.7	1152.0	1105.8	1048.3
85°	561.9	632.8	709.6	816.0	913.3	1010.7	1096.4	1155.7	1177.3	1126.6	1065.6
87.5°	563.3	633.1	709.6	817.8	914.5	1008.4	1094.8	1170.2	1203.3	1148.0	1083.4
90°	564.6	633.3	709.6	819.7	915.6	1006.1	1093.3	1184.8	1228.4	1171.7	1104.2
92.5°	563.3	633.1	709.6	817.8	914.5	1008.4	1094.8	1170.2	1203.3	1148.0	1083.4
95°	561.9	632.8	709.6	816.0	913.3	1010.7	1096.4	1155.7	1177.3	1126.6	1065.6
97.5°	560.6	632.6	709.6	809.6	907.1	1006.7	1091.9	1137.7	1152.0	1105.8	1048.3
100°	559.2	629.0	704.9	804.3	901.9	1003.8	1088.8	1122.8	1127.7	1085.8	1031.9
102.5°	554.8	626.8	702.2	798.2	895.5	999.1	1084.5	1109.7	1105.2	1066.7	1016.2
105°	552.0	624.1	698.9	791.4	887.9	992.5	1079.1	1099.4	1084.9	1048.4	1001.1
107.5°	548.9	620.9	695.0	783.9	879.0	983.9	1072.5	1092.5	1067.5	1030.6	986.1
110°	545.5	617.2	690.5	775.7	868.9	973.1	1064.9	1090.0	1053.5	1013.3	967.9



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	541.2	611.3	681.3	759.0	843.5	936.0	1018.9	1046.2	1001.9	960.5	920.4
115°	518.7	581.3	642.9	709.5	781.9	859.6	934.9	974.1	936.5	902.5	870.2
117.5°	496.3	551.7	605.3	661.3	722.0	785.5	852.5	894.9	869.3	841.6	816.5
120°	474.2	522.7	568.5	614.4	664.1	714.2	769.8	806.4	799.3	777.5	758.9
122.5°	452.2	494.2	532.9	569.2	608.7	647.5	689.4	720.5	726.4	709.8	697.0
125°	430.5	466.5	498.6	526.0	556.1	584.5	613.4	637.5	650.0	638.5	630.7
127.5°	409.2	439.7	465.6	485.2	506.4	525.2	542.3	557.7	567.1	563.6	559.7
130°	388.3	413.7	434.3	447.0	459.6	469.8	476.5	482.1	484.9	484.3	483.5
132.5°	367.8	388.8	404.0	410.9	416.0	418.8	417.0	412.9	413.6	423.7	439.3
135°	347.3	364.5	374.9	379.1	381.4	383.9	384.7	386.5	390.1	399.9	413.0
137.5°	318.2	335.6	346.2	352.7	355.8	359.1	361.3	362.6	367.4	375.0	386.2
140°	289.0	305.8	317.2	325.6	329.6	333.6	337.1	339.0	342.9	349.0	359.8
142.5°	259.8	275.7	287.9	297.9	302.7	307.2	311.6	314.6	317.3	323.5	331.3
145°	230.4	245.5	258.1	268.4	275.0	280.5	284.9	289.3	292.0	295.9	303.5
147.5°	201.0	215.1	227.9	238.1	246.4	252.0	257.3	262.2	266.1	268.9	274.2
150°	171.6	184.7	197.5	207.3	217.5	223.0	228.7	233.8	238.7	242.2	245.0
152.5°	142.4	154.2	165.8	176.0	185.2	192.9	198.8	204.4	209.3	214.0	217.2
155°	113.3	123.6	134.2	144.2	153.0	161.4	167.8	173.5	178.8	183.6	191.5
157.5°	84.9	94.3	105.0	115.6	125.7	135.6	145.2	153.2	161.1	168.8	176.3
160°	75.7	83.3	93.0	102.5	111.9	120.9	129.7	138.4	145.6	152.6	159.5
162.5°	66.4	73.0	80.9	89.3	97.6	105.7	113.6	121.4	129.0	135.6	141.8
165°	57.1	62.8	68.6	75.9	83.1	90.1	97.0	103.8	110.4	116.9	124.0
167.5°	47.8	52.6	57.2	62.3	68.4	74.3	80.0	85.6	91.2	96.7	102.0
170°	38.5	42.3	46.0	49.7	53.5	58.3	62.9	67.4	71.8	76.1	80.4
172.5°	29.2	32.0	34.8	37.6	40.3	42.9	45.6	49.0	52.3	55.5	58.6
175°	19.8	21.7	23.6	25.4	27.2	29.0	30.6	32.3	33.8	35.3	36.8
177.5°	10.5	11.4	12.4	13.3	14.2	15.0	15.9	16.7	17.5	18.2	18.9
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2.5°	19.6	20.3	20.9	21.5	22.0	22.5	23.0	23.4	23.8	24.1	24.4
5°	38.8	40.7	42.5	44.2	45.8	47.4	48.8	50.1	51.4	52.5	53.5
7.5°	61.6	64.4	67.2	69.7	72.2	74.7	77.1	79.3	81.4	83.2	85.0
10°	84.4	88.4	92.3	96.0	99.5	102.9	106.0	108.8	111.2	113.3	115.4
12.5°	107.2	112.2	116.9	120.9	124.6	128.3	131.7	134.9	137.9	141.1	144.2
15°	128.5	133.6	138.5	143.2	147.8	152.7	157.4	161.9	166.3	170.4	174.3
17.5°	147.8	154.3	159.6	165.6	171.4	177.0	182.5	187.7	192.9	197.9	202.7
20°	166.4	173.2	179.9	186.4	192.6	198.8	204.9	211.3	218.1	224.4	230.2
22.5°	183.7	190.9	197.6	204.3	211.2	220.0	228.6	236.7	244.1	249.9	254.9
25°	198.6	205.5	213.3	223.1	233.7	243.7	253.5	262.2	269.6	276.2	282.3
27.5°	219.9	224.4	232.6	244.8	257.9	270.4	282.8	291.8	301.0	308.8	315.8
30°	250.6	258.6	267.2	278.3	289.2	301.4	314.7	326.3	337.5	347.1	355.9
32.5°	282.1	291.5	303.2	315.1	327.9	340.4	353.4	366.4	378.2	387.8	396.2
35°	312.7	324.7	337.4	351.5	365.6	380.4	394.7	407.0	418.4	431.2	445.3
37.5°	343.3	356.3	371.3	386.9	403.1	418.4	432.4	446.8	463.7	481.6	497.4
40°	372.1	387.9	404.3	421.7	438.4	454.2	472.0	490.8	510.8	531.2	552.4
42.5°	401.7	418.3	436.7	454.8	472.2	492.3	512.9	536.2	561.1	586.5	613.7
45°	429.6	448.4	467.6	486.6	508.0	530.1	555.9	582.3	612.6	645.8	685.6
47.5°	457.5	477.0	497.5	519.4	542.9	570.1	598.9	631.2	669.2	711.6	765.6
50°	486.9	505.1	527.1	551.6	579.3	609.1	643.0	682.7	729.2	788.7	853.5
52.5°	559.0	562.1	569.9	584.0	615.9	648.8	688.1	735.0	798.5	869.7	950.8
55°	626.0	625.0	630.0	642.0	662.1	689.1	731.4	796.1	869.4	952.0	1049.0
57.5°	687.1	681.9	683.7	694.0	714.0	745.7	794.0	857.6	938.1	1037.4	1147.4
60°	743.2	732.5	731.9	742.2	764.4	800.3	861.1	932.3	1018.3	1120.0	1250.4
62.5°	794.8	779.5	774.7	784.3	811.4	860.3	925.5	1003.7	1105.5	1224.5	1363.4
65°	841.6	822.0	815.9	826.6	856.9	913.2	984.8	1080.3	1194.7	1327.2	1485.9
67.5°	884.1	859.8	852.5	866.8	905.3	965.2	1043.7	1149.7	1277.0	1429.7	1609.9
70°	924.6	894.3	884.9	903.2	947.8	1011.9	1103.8	1220.3	1357.7	1520.9	1723.0
72.5°	947.4	923.8	919.3	939.7	985.8	1055.7	1156.7	1281.6	1428.7	1606.0	1800.2
75°	964.8	948.1	951.4	977.9	1027.7	1101.3	1208.2	1335.5	1485.5	1672.1	1861.4
77.5°	983.7	973.7	982.5	1013.6	1066.8	1148.8	1260.2	1390.3	1544.2	1723.0	1911.4
80°	1004.1	1000.6	1012.7	1046.9	1102.4	1190.5	1304.4	1433.9	1592.0	1767.9	1973.0
82.5°	1025.7	1028.2	1042.0	1078.1	1134.6	1226.8	1341.1	1466.9	1626.5	1800.1	2015.1
85°	1048.3	1056.4	1070.6	1107.3	1163.8	1257.8	1370.7	1490.4	1648.8	1819.9	2038.2
87.5°	1071.4	1085.0	1098.8	1135.5	1191.4	1286.1	1396.6	1508.5	1664.3	1833.0	2051.0
90°	1095.4	1112.9	1126.0	1160.8	1214.2	1305.8	1411.5	1514.0	1661.1	1824.6	2032.8
92.5°	1071.4	1085.0	1098.8	1135.5	1191.4	1286.1	1396.6	1508.5	1664.3	1833.0	2051.0
95°	1048.3	1056.4	1070.6	1107.3	1163.8	1257.8	1370.7	1490.4	1648.8	1819.9	2038.2
97.5°	1025.7	1028.2	1042.0	1078.1	1134.6	1226.8	1341.1	1466.9	1626.5	1800.1	2015.1
100°	1004.1	1000.6	1012.7	1046.9	1102.4	1190.5	1304.4	1433.9	1592.0	1767.9	1973.0
102.5°	983.7	973.7	982.5	1013.6	1066.8	1148.8	1260.2	1390.3	1544.2	1723.0	1911.4
105°	964.8	948.1	951.4	977.9	1027.7	1101.3	1208.2	1335.5	1485.5	1672.1	1861.4
107.5°	947.4	923.8	919.3	939.7	985.8	1055.7	1156.7	1281.6	1428.7	1606.0	1800.2
110°	924.6	894.3	884.9	903.2	947.8	1011.9	1103.8	1220.3	1357.7	1520.9	1723.0



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	884.1	859.8	852.5	866.8	905.3	965.2	1043.7	1149.7	1277.0	1429.7	1609.9
115°	841.6	822.0	815.9	826.6	856.9	913.2	984.8	1080.3	1194.7	1327.2	1485.9
117.5°	794.8	779.5	774.7	784.3	811.4	860.3	925.5	1003.7	1105.5	1224.5	1363.4
120°	743.2	732.5	731.9	742.2	764.4	800.3	861.1	932.3	1018.3	1120.0	1250.4
122.5°	687.1	681.9	683.7	694.0	714.0	745.7	794.0	857.6	938.1	1037.4	1147.4
125°	626.0	625.0	630.0	642.0	662.1	689.1	731.4	796.1	869.4	952.0	1049.0
127.5°	559.0	562.1	569.9	584.0	615.9	648.8	688.1	735.0	798.5	869.7	950.8
130°	486.9	505.1	527.1	551.6	579.3	609.1	643.0	682.7	729.2	788.7	853.5
132.5°	457.5	477.0	497.5	519.4	542.9	570.1	598.9	631.2	669.2	711.6	765.6
135°	429.6	448.4	467.6	486.6	508.0	530.1	555.9	582.3	612.6	645.8	685.6
137.5°	401.7	418.3	436.7	454.8	472.2	492.3	512.9	536.2	561.1	586.5	613.7
140°	372.1	387.9	404.3	421.7	438.4	454.2	472.0	490.8	510.8	531.2	552.4
142.5°	343.3	356.3	371.3	386.9	403.1	418.4	432.4	446.8	463.7	481.6	497.4
145°	312.7	324.7	337.4	351.5	365.6	380.4	394.7	407.0	418.4	431.2	445.3
147.5°	282.1	291.5	303.2	315.1	327.9	340.4	353.4	366.4	378.2	387.8	396.2
150°	250.6	258.6	267.2	278.3	289.2	301.4	314.7	326.3	337.5	347.1	355.9
152.5°	219.9	224.4	232.6	244.8	257.9	270.4	282.8	291.8	301.0	308.8	315.8
155°	198.6	205.5	213.3	223.1	233.7	243.7	253.5	262.2	269.6	276.2	282.3
157.5°	183.7	190.9	197.6	204.3	211.2	220.0	228.6	236.7	244.1	249.9	254.9
160°	166.4	173.2	179.9	186.4	192.6	198.8	204.9	211.3	218.1	224.4	230.2
162.5°	147.8	154.3	159.6	165.6	171.4	177.0	182.5	187.7	192.9	197.9	202.7
165°	128.5	133.6	138.5	143.2	147.8	152.7	157.4	161.9	166.3	170.4	174.3
167.5°	107.2	112.2	116.9	120.9	124.6	128.3	131.7	134.9	137.9	141.1	144.2
170°	84.4	88.4	92.3	96.0	99.5	102.9	106.0	108.8	111.2	113.3	115.4
172.5°	61.6	64.4	67.2	69.7	72.2	74.7	77.1	79.3	81.4	83.2	85.0
175°	38.8	40.7	42.5	44.2	45.8	47.4	48.8	50.1	51.4	52.5	53.5
177.5°	19.6	20.3	20.9	21.5	22.0	22.5	23.0	23.4	23.8	24.1	24.4
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2.5°	24.6	24.8	25.0	25.1	25.1	25.2	25.9	25.6	25.3	25.0	24.6
5°	54.3	55.1	55.8	56.3	56.7	57.0	57.2	57.2	58.1	57.5	56.8
7.5°	86.5	87.9	89.1	90.1	90.9	91.5	92.0	92.2	92.3	93.0	92.2
10°	117.2	118.8	120.2	121.4	122.4	123.1	123.7	124.0	124.1	125.0	124.1
12.5°	147.1	149.7	152.1	154.3	156.2	157.8	159.1	160.1	160.8	161.2	161.9
15°	178.1	181.6	184.9	188.0	190.7	193.2	195.4	197.3	198.7	199.8	201.4
17.5°	207.4	211.7	215.7	219.2	222.2	224.8	227.0	228.8	230.1	231.0	232.3
20°	235.6	239.9	242.5	244.4	245.7	246.4	246.5	246.1	245.3	244.1	242.8
22.5°	258.8	261.8	264.6	266.7	268.0	268.5	268.2	267.2	265.6	263.4	261.3
25°	287.3	291.0	293.7	296.1	297.5	297.8	297.1	295.5	293.0	289.6	285.6
27.5°	321.9	326.5	329.8	332.2	334.2	335.1	335.0	333.9	331.8	328.8	324.7
30°	361.5	367.0	371.3	374.6	381.3	386.9	391.3	394.3	396.0	396.2	394.8
32.5°	404.8	415.9	426.2	435.5	445.6	455.8	464.8	472.3	478.3	482.4	484.5
35°	458.7	473.7	489.0	503.8	518.5	534.8	549.5	562.6	573.6	582.3	588.4
37.5°	515.6	534.8	557.4	579.3	600.3	624.3	646.8	666.7	683.6	697.5	707.8
40°	576.5	602.0	633.9	666.5	697.2	729.7	763.3	793.7	820.4	842.9	860.8
42.5°	647.6	683.3	723.1	769.3	813.6	857.2	904.0	945.2	980.5	1009.6	1032.3
45°	728.2	779.1	827.9	891.3	953.4	1016.8	1065.2	1115.0	1158.6	1195.5	1225.0
47.5°	822.3	889.9	961.3	1033.1	1104.6	1171.7	1241.8	1310.4	1370.8	1422.0	1463.2
50°	931.0	1011.0	1095.1	1177.3	1274.3	1365.9	1456.9	1552.3	1635.8	1706.5	1763.3
52.5°	1040.7	1133.5	1240.7	1350.5	1476.3	1605.0	1722.2	1831.1	1929.8	2016.4	2088.8
55°	1151.7	1272.3	1403.0	1553.7	1703.5	1849.1	1982.7	2086.7	2177.4	2259.4	2331.1
57.5°	1274.3	1422.9	1585.3	1755.8	1930.4	2051.0	2163.8	2268.2	2361.4	2447.5	2524.8
60°	1405.3	1577.3	1765.1	1939.3	2089.3	2210.3	2312.0	2412.6	2507.5	2593.5	2669.9
62.5°	1532.0	1733.0	1925.6	2100.1	2225.1	2339.7	2437.7	2532.0	2629.5	2718.0	2795.9
65°	1675.9	1875.8	2071.8	2211.3	2332.2	2441.7	2547.5	2646.9	2742.2	2827.9	2897.9
67.5°	1808.5	2014.6	2168.9	2297.5	2416.2	2535.1	2647.5	2753.4	2849.7	2928.7	2994.1
70°	1918.0	2104.7	2251.7	2369.0	2493.5	2616.4	2734.4	2841.3	2941.5	3027.3	3086.6
72.5°	2001.5	2188.9	2317.9	2440.3	2562.0	2683.0	2803.0	2914.4	3028.2	3122.7	3172.8
75°	2077.5	2241.8	2370.9	2495.6	2621.5	2743.4	2851.9	2968.9	3081.9	3183.6	3243.4
77.5°	2141.1	2287.6	2408.2	2537.3	2669.4	2789.8	2899.1	3007.8	3138.2	3236.5	3298.1
80°	2175.0	2314.5	2433.2	2567.2	2704.9	2827.0	2939.4	3066.1	3193.3	3284.5	3327.2
82.5°	2203.8	2337.6	2462.4	2596.1	2724.5	2844.4	2965.7	3095.4	3226.3	3307.6	3346.1
85°	2224.5	2350.6	2481.0	2616.0	2742.3	2862.1	2979.5	3104.5	3239.4	3324.9	3367.4
87.5°	2242.0	2353.6	2487.6	2620.1	2746.4	2865.6	2993.6	3122.1	3259.3	3334.6	3369.6
90°	2232.3	2346.7	2481.9	2609.4	2735.9	2852.5	2990.9	3111.9	3254.7	3332.1	3351.7
92.5°	2242.0	2353.6	2487.6	2620.1	2746.4	2865.6	2993.6	3122.1	3259.3	3334.6	3369.6
95°	2224.5	2350.6	2481.0	2616.0	2742.3	2862.1	2979.5	3104.5	3239.4	3324.9	3367.4
97.5°	2203.8	2337.6	2462.4	2596.1	2724.5	2844.4	2965.7	3095.4	3226.3	3307.6	3346.1
100°	2175.0	2314.5	2433.2	2567.2	2704.9	2827.0	2939.4	3066.1	3193.3	3284.5	3327.2
102.5°	2141.1	2287.6	2408.2	2537.3	2669.4	2789.8	2899.1	3007.8	3138.2	3236.5	3298.1
105°	2077.5	2241.8	2370.9	2495.6	2621.5	2743.4	2851.9	2968.9	3081.9	3183.6	3243.4
107.5°	2001.5	2188.9	2317.9	2440.3	2562.0	2683.0	2803.0	2914.4	3028.2	3122.7	3172.8
110°	1918.0	2104.7	2251.7	2369.0	2493.5	2616.4	2734.4	2841.3	2941.5	3027.3	3086.6



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	1808.5	2014.6	2168.9	2297.5	2416.2	2535.1	2647.5	2753.4	2849.7	2928.7	2994.1
115°	1675.9	1875.8	2071.8	2211.3	2332.2	2441.7	2547.5	2646.9	2742.2	2827.9	2897.9
117.5°	1532.0	1733.0	1925.6	2100.1	2225.1	2339.7	2437.7	2532.0	2629.5	2718.0	2795.9
120°	1405.3	1577.3	1765.1	1939.3	2089.3	2210.3	2312.0	2412.6	2507.5	2593.5	2669.9
122.5°	1274.3	1422.9	1585.3	1755.8	1930.4	2051.0	2163.8	2268.2	2361.4	2447.5	2524.8
125°	1151.7	1272.3	1403.0	1553.7	1703.5	1849.1	1982.7	2086.7	2177.4	2259.4	2331.1
127.5°	1040.7	1133.5	1240.7	1350.5	1476.3	1605.0	1722.2	1831.1	1929.8	2016.4	2088.8
130°	931.0	1011.0	1095.1	1177.3	1274.3	1365.9	1456.9	1552.3	1635.8	1706.5	1763.3
132.5°	822.3	889.9	961.3	1033.1	1104.6	1171.7	1241.8	1310.4	1370.8	1422.0	1463.2
135°	728.2	779.1	827.9	891.3	953.4	1016.8	1065.2	1115.0	1158.6	1195.5	1225.0
137.5°	647.6	683.3	723.1	769.3	813.6	857.2	904.0	945.2	980.5	1009.6	1032.3
140°	576.5	602.0	633.9	666.5	697.2	729.7	763.3	793.7	820.4	842.9	860.8
142.5°	515.6	534.8	557.4	579.3	600.3	624.3	646.8	666.7	683.6	697.5	707.8
145°	458.7	473.7	489.0	503.8	518.5	534.8	549.5	562.6	573.6	582.3	588.4
147.5°	404.8	415.9	426.2	435.5	445.6	455.8	464.8	472.3	478.3	482.4	484.5
150°	361.5	367.0	371.3	374.6	381.3	386.9	391.3	394.3	396.0	396.2	394.8
152.5°	321.9	326.5	329.8	332.2	334.2	335.1	335.0	333.9	331.8	328.8	324.7
155°	287.3	291.0	293.7	296.1	297.5	297.8	297.1	295.5	293.0	289.6	285.6
157.5°	258.8	261.8	264.6	266.7	268.0	268.5	268.2	267.2	265.6	263.4	261.3
160°	235.6	239.9	242.5	244.4	245.7	246.4	246.5	246.1	245.3	244.1	242.8
162.5°	207.4	211.8	215.7	219.2	222.2	224.8	227.0	228.8	230.1	231.0	232.3
165°	178.1	181.6	184.9	188.0	190.7	193.2	195.4	197.3	198.7	199.8	201.4
167.5°	147.1	149.7	152.1	154.3	156.2	157.8	159.1	160.1	160.8	161.2	161.9
170°	117.2	118.8	120.2	121.4	122.4	123.1	123.7	124.0	124.1	125.0	124.1
172.5°	86.5	87.9	89.1	90.1	90.9	91.5	92.0	92.2	92.3	93.0	92.2
175°	54.3	55.1	55.8	56.3	56.7	57.0	57.2	57.2	58.1	57.5	56.8
177.5°	24.6	24.8	25.0	25.1	25.1	25.2	25.9	25.6	25.3	25.0	24.6
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1.1	1.1
2.5°	24.3	24.0
5°	56.2	55.6
7.5°	91.3	90.5
10°	123.1	122.1
12.5°	161.1	160.2
15°	201.0	200.6
17.5°	231.7	231.1
20°	240.8	238.7
22.5°	257.7	254.0
25°	281.2	275.8
27.5°	320.2	313.9
30°	392.6	386.9
32.5°	485.7	481.8
35°	593.3	591.9
37.5°	716.6	717.2
40°	876.4	880.7
42.5°	1051.8	1057.3
45°	1251.1	1260.0
47.5°	1499.7	1512.9
50°	1813.3	1831.2
52.5°	2154.8	2183.2
55°	2398.3	2436.1
57.5°	2598.3	2645.4
60°	2741.7	2791.5
62.5°	2862.9	2919.0
65°	2954.2	2999.6
67.5°	3046.6	3087.9
70°	3127.9	3155.5
72.5°	3207.8	3229.6
75°	3272.5	3289.6
77.5°	3313.3	3314.7
80°	3343.2	3347.4
82.5°	3364.3	3375.7
85°	3387.5	3376.8
87.5°	3395.0	3391.0
90°	3389.9	3383.3
92.5°	3395.0	3391.0
95°	3387.5	3376.8
97.5°	3364.3	3375.7
100°	3343.2	3347.4
102.5°	3313.3	3314.7
105°	3272.5	3289.6
107.5°	3207.8	3229.6
110°	3127.9	3155.5



TEST NUMBER: P232087

CATALOG NUMBER: FVS4WM-3-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	3046.6	3087.9
115°	2954.2	2999.6
117.5°	2862.9	2919.0
120°	2741.7	2791.5
122.5°	2598.3	2645.4
125°	2398.3	2436.1
127.5°	2154.8	2183.2
130°	1813.3	1831.2
132.5°	1499.7	1512.9
135°	1251.1	1260.0
137.5°	1051.8	1057.3
140°	876.4	880.7
142.5°	716.6	717.2
145°	593.3	591.9
147.5°	485.7	481.8
150°	392.6	386.9
152.5°	320.2	313.9
155°	281.2	275.8
157.5°	257.7	254.0
160°	240.8	238.7
162.5°	231.7	231.1
165°	201.0	200.6
167.5°	161.1	160.2
170°	123.1	122.1
172.5°	91.3	90.5
175°	56.2	55.6
177.5°	24.3	24.0
180°	1.0	1.0

(END OF REPORT)