

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: P232011

Luminaire Tested: **FVS4WM-4-LD4-50-2STD-PA187-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-20)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4WM-4-LD4-50-2STD-PA187-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
4FT LENGTH, 2-MODULE LED WITH PA187 LENS
Light Source: (168) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

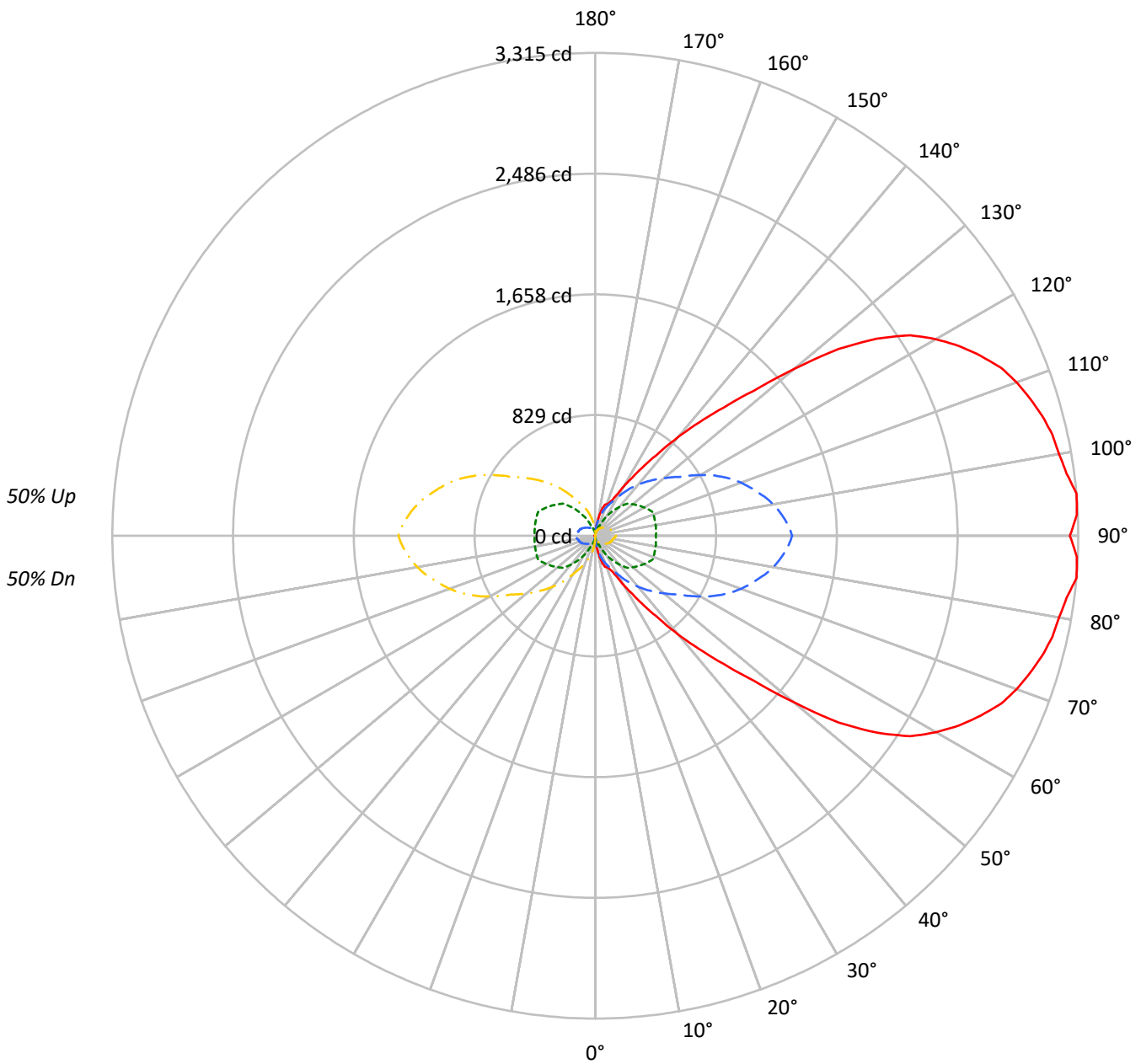
Lumens per Lamp: N/A
Luminaire Lumens: 7546.7 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 21.28 / 13.39 / 14.43
Luminous Opening: Rectangular w/ Sides (W: 3.79' x L: 0.19' x H: 0.31')
CIE Type: General Diffuse

Input Watts (W): 67.5
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

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Luminous Intensity Polar Plot



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



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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	84	77	71	83	76	70	65	63	58	54	50	47	43	39	36	34	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	25	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	32	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°	41	41	41	41
5°	714	272	24	272
10°	1438	506	21	506
15°	2156	747	20	747
20°	2284	1001	18	1001
25°	2502	1581	17	1581
30°	3490	2528	16	2528
35°	5030	3575	15	3575
40°	7282	4766	15	4766
45°	9989	6152	22	6152
50°	14047	7217	21	7217
55°	18408	8549	21	8549
60°	21025	10268	21	10268
65°	22870	12574	28	12574
70°	24414	15326	29	15326
75°	25736	18897	29	18897
80°	26960	24973	0	24973
85°	28724	37399	0	37399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.0
10°-20°	24.9	0.3
20°-30°	66.0	0.9
30°-40°	151.9	2.0
40°-50°	299.1	4.0
50°-60°	530.7	7.0
60°-70°	765.6	10.1
70°-80°	925.9	12.3
80°-90°	1005.8	13.3
90°-100°	1005.8	13.3
100°-110°	925.9	12.3
110°-120°	765.6	10.1
120°-130°	530.7	7.0
130°-140°	299.1	4.0
140°-150°	151.9	2.0
150°-160°	66.0	0.9
160°-170°	24.9	0.3
170°-180°	3.5	0.0
0°-30°	94.4	1.3
0°-40°	246.3	3.3
0°-60°	1076.1	14.3
0°-90°	3773.3	50.0
90°-120°	2697.3	35.7
90°-150°	3678.9	48.7
90°-180°	3773.0	50.0
0°-180°	7546.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3	3	3	3	3	
5°	54	18	2	18	54	7
15°	199	49	2	49	199	56
25°	266	98	2	98	266	133
35°	590	205	2	205	590	386
45°	1244	311	3	311	1244	997
55°	2357	362	3	362	2357	2086
65°	2920	413	4	413	2920	2891
75°	3176	422	4	422	3176	3352
85°	3315	418	0	418	3315	2682
90°	3257	416	0	416	3257	1799
95°	3315	418	0	418	3315	2682
105°	3176	422	4	422	3176	3352
115°	2920	413	4	413	2920	2891
125°	2357	362	3	362	2357	2086
135°	1244	311	3	311	1244	997
145°	590	205	2	205	590	386
155°	266	98	2	98	266	133
165°	199	49	2	49	199	56
175°	54	18	2	18	54	7
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
2.5°	26.0	26.3	26.6	26.9	27.3	27.6	27.9	27.1	27.1	27.0	26.9
5°	53.8	54.5	55.1	55.8	56.4	55.8	55.8	55.8	55.6	55.3	54.9
7.5°	91.4	92.2	93.0	93.8	92.8	92.7	92.3	91.8	91.0	90.1	89.0
10°	121.0	122.0	123.0	123.9	123.1	123.1	122.8	122.3	121.6	120.7	119.6
12.5°	164.0	164.8	165.5	164.4	163.8	162.8	161.5	159.9	157.9	155.6	153.1
15°	199.0	199.6	200.1	198.9	198.1	196.9	195.4	193.6	191.4	189.0	186.3
17.5°	225.0	225.9	226.8	226.1	225.7	224.8	223.6	222.0	220.0	217.5	214.6
20°	227.7	230.3	232.8	234.9	236.8	238.4	239.6	240.3	240.5	240.0	239.0
22.5°	242.9	247.1	251.3	253.9	256.7	258.9	260.4	261.2	261.3	260.6	259.0
25°	266.2	271.8	276.4	280.6	284.2	287.0	289.0	290.2	290.6	290.0	288.5
27.5°	311.9	317.9	321.9	325.3	327.7	329.1	329.5	328.9	327.4	324.9	322.6
30°	391.7	396.3	397.1	397.1	395.6	392.7	388.5	383.2	376.9	369.8	365.8
32.5°	475.9	479.5	478.5	476.6	472.7	467.0	459.6	450.7	440.3	429.6	419.7
35°	589.7	591.3	586.2	579.9	570.6	558.9	544.7	528.5	510.4	495.4	480.4
37.5°	714.3	714.0	705.6	695.6	682.1	665.4	645.8	623.4	599.2	576.1	551.6
40°	883.7	879.9	864.2	846.2	823.3	796.0	764.8	730.1	697.1	666.4	633.8
42.5°	1054.0	1047.9	1028.5	1006.3	978.3	944.8	906.1	862.7	818.6	772.7	724.6
45°	1244.0	1239.3	1217.8	1191.8	1157.2	1113.9	1062.0	1009.4	950.6	893.6	835.5
47.5°	1471.7	1466.6	1439.9	1408.0	1365.8	1313.7	1251.9	1183.9	1111.1	1030.1	961.0
50°	1780.9	1771.3	1730.5	1683.3	1622.7	1549.7	1465.5	1383.4	1297.4	1202.7	1112.5
52.5°	2106.2	2081.6	2023.5	1961.2	1888.7	1808.6	1723.2	1618.6	1499.3	1379.0	1271.8
55°	2357.2	2324.1	2261.7	2194.5	2116.6	2029.8	1933.8	1828.0	1710.8	1574.4	1432.5
57.5°	2561.5	2518.1	2449.3	2377.4	2297.7	2212.1	2113.8	2006.0	1897.3	1753.5	1605.3
60°	2698.7	2652.2	2585.4	2514.3	2434.6	2346.9	2252.5	2157.3	2046.6	1915.2	1766.2
62.5°	2818.8	2766.1	2703.2	2630.3	2547.6	2456.7	2366.6	2271.1	2164.7	2053.5	1907.9
65°	2920.0	2869.4	2808.2	2735.9	2652.2	2561.7	2467.1	2367.2	2259.2	2144.5	2024.0
67.5°	3014.1	2966.3	2907.1	2835.4	2750.9	2657.1	2556.4	2450.2	2340.2	2221.9	2100.5
70°	3076.9	3039.3	2990.0	2926.0	2841.3	2740.5	2635.0	2522.4	2406.0	2293.5	2178.6
72.5°	3128.9	3109.8	3074.8	3017.2	2915.6	2806.7	2697.6	2582.3	2469.2	2357.5	2246.6
75°	3176.4	3167.2	3145.4	3084.4	2977.3	2857.9	2741.2	2637.3	2527.8	2410.2	2295.8
77.5°	3212.2	3207.0	3193.1	3120.2	3016.0	2896.0	2788.4	2682.7	2571.6	2452.8	2331.0
80°	3231.9	3239.5	3219.8	3147.7	3044.5	2941.4	2829.9	2719.4	2603.7	2482.6	2357.3
82.5°	3262.4	3266.1	3236.4	3185.7	3088.6	2979.4	2859.4	2738.1	2623.7	2507.2	2386.6
85°	3315.3	3275.0	3223.8	3204.4	3120.4	3001.6	2882.2	2763.4	2644.9	2523.5	2404.6
87.5°	3307.2	3252.6	3259.2	3225.3	3131.4	3009.8	2890.5	2777.5	2655.3	2526.1	2410.5
90°	3257.0	3259.7	3275.0	3231.9	3110.9	2994.4	2877.0	2775.7	2652.0	2515.8	2404.7
92.5°	3307.2	3252.6	3259.2	3225.3	3131.4	3009.8	2890.5	2777.5	2655.3	2526.1	2410.5
95°	3315.3	3275.0	3223.8	3204.4	3120.4	3001.6	2882.2	2763.4	2644.9	2523.5	2404.6
97.5°	3262.4	3266.1	3236.4	3185.7	3088.6	2979.4	2859.4	2738.1	2623.7	2507.2	2386.6
100°	3231.9	3239.5	3219.8	3147.7	3044.5	2941.4	2829.9	2719.4	2603.7	2482.6	2357.3
102.5°	3212.2	3207.0	3193.1	3120.2	3016.0	2896.0	2788.4	2682.7	2571.6	2452.8	2331.0
105°	3176.4	3167.2	3145.4	3084.4	2977.3	2857.9	2741.2	2637.3	2527.8	2410.2	2295.8
107.5°	3128.9	3109.8	3074.8	3017.2	2915.6	2806.7	2697.6	2582.3	2469.2	2357.5	2246.6
110°	3076.9	3039.3	2990.0	2926.0	2841.3	2740.5	2635.0	2522.4	2406.0	2293.5	2178.6



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	3014.1	2966.3	2907.1	2835.4	2750.9	2657.1	2556.4	2450.2	2340.2	2221.9	2100.5
115°	2920.0	2869.4	2808.2	2735.9	2652.2	2561.7	2467.1	2367.2	2259.2	2144.5	2024.0
117.5°	2818.8	2766.1	2703.2	2630.3	2547.6	2456.7	2366.6	2271.1	2164.7	2053.5	1907.9
120°	2698.7	2652.2	2585.4	2514.3	2434.6	2346.9	2252.5	2157.3	2046.6	1915.2	1766.2
122.5°	2561.5	2518.1	2449.3	2377.4	2297.7	2212.1	2113.8	2006.0	1897.3	1753.5	1605.3
125°	2357.2	2324.1	2261.7	2194.5	2116.6	2029.8	1933.8	1828.0	1710.8	1574.4	1432.5
127.5°	2106.2	2081.6	2023.5	1961.2	1888.7	1808.6	1723.2	1618.6	1499.3	1379.0	1271.8
130°	1780.9	1771.3	1730.5	1683.3	1622.7	1549.7	1465.5	1383.4	1297.4	1202.7	1112.5
132.5°	1471.7	1466.6	1439.9	1408.0	1365.8	1313.7	1251.9	1183.9	1111.1	1030.1	961.0
135°	1244.0	1239.3	1217.8	1191.8	1157.2	1113.9	1062.0	1009.4	950.6	893.6	835.5
137.5°	1054.0	1047.9	1028.5	1006.3	978.3	944.8	906.1	862.7	818.6	772.7	724.6
140°	883.7	879.9	864.2	846.2	823.3	796.0	764.8	730.1	697.1	666.4	633.8
142.5°	714.3	714.0	705.6	695.6	682.1	665.4	645.8	623.4	599.2	576.1	551.6
145°	589.7	591.3	586.2	579.9	570.6	558.9	544.7	528.5	510.4	495.4	480.4
147.5°	475.9	479.5	478.5	476.6	472.7	467.0	459.6	450.7	440.3	429.6	419.7
150°	391.7	396.3	397.1	397.1	395.6	392.7	388.5	383.2	376.9	369.8	365.8
152.5°	311.9	317.9	321.9	325.3	327.7	329.1	329.5	328.9	327.4	324.9	322.6
155°	266.2	271.8	276.4	280.6	284.2	287.0	289.0	290.2	290.6	290.0	288.5
157.5°	242.9	247.1	251.3	253.9	256.7	258.9	260.4	261.2	261.3	260.6	259.0
160°	227.7	230.3	232.8	234.9	236.8	238.4	239.6	240.3	240.5	240.0	239.0
162.5°	225.0	225.9	226.8	226.1	225.7	224.8	223.6	222.0	220.0	217.5	214.6
165°	199.0	199.6	200.1	198.9	198.1	196.9	195.4	193.6	191.4	189.0	186.3
167.5°	164.0	164.8	165.5	164.4	163.8	162.8	161.5	159.9	157.9	155.6	153.1
170°	121.0	122.0	123.0	123.9	123.1	123.1	122.8	122.3	121.6	120.7	119.6
172.5°	91.4	92.2	93.0	93.8	92.8	92.7	92.3	91.8	91.0	90.1	89.0
175°	53.8	54.5	55.1	55.8	56.4	55.8	55.8	55.8	55.6	55.3	54.9
177.5°	26.0	26.3	26.6	26.9	27.3	27.6	27.9	27.1	27.1	27.0	26.9
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
2.5°	26.7	26.5	26.3	26.0	25.7	25.3	24.9	24.4	23.9	23.4	22.8
5°	54.4	53.8	53.1	52.3	51.4	50.3	49.2	48.0	46.6	45.2	43.7
7.5°	87.7	86.2	84.5	82.7	80.8	78.6	76.4	73.9	71.4	69.1	66.8
10°	118.2	116.7	114.9	113.0	110.8	108.5	105.7	102.5	99.1	95.5	91.8
12.5°	150.2	147.2	143.8	140.3	136.9	133.9	130.8	127.4	123.8	120.0	116.1
15°	183.2	180.0	176.4	172.2	167.5	162.6	157.5	152.3	146.9	142.2	137.4
17.5°	211.3	207.6	203.3	198.8	194.0	189.0	183.9	178.2	171.9	165.5	159.1
20°	237.2	233.7	229.1	224.0	218.4	212.3	206.2	200.0	193.7	187.3	180.3
22.5°	257.0	255.0	252.1	248.1	243.2	236.7	229.3	221.4	213.2	205.9	198.6
25°	286.4	283.3	278.9	273.5	267.7	261.3	253.6	244.7	235.2	225.3	216.0
27.5°	320.3	316.9	312.3	306.5	299.4	290.9	282.5	271.1	259.5	247.0	235.3
30°	360.8	355.0	349.2	342.3	334.8	325.9	315.0	302.5	291.1	281.0	270.6
32.5°	409.3	398.6	389.9	381.5	372.2	362.3	352.8	342.6	331.1	319.0	307.7
35°	464.4	448.7	435.9	423.2	412.3	402.8	392.5	381.5	369.7	356.9	343.6
37.5°	525.9	505.2	485.5	470.4	456.7	443.7	431.8	419.9	407.1	393.4	379.2
40°	601.0	571.9	545.1	523.6	504.4	487.0	472.0	457.2	443.8	429.3	413.7
42.5°	684.4	649.4	614.8	584.7	556.9	533.9	513.1	496.2	479.2	464.2	448.1
45°	785.9	733.5	690.6	650.4	615.0	582.0	557.3	535.1	516.2	497.8	481.4
47.5°	898.4	835.5	776.5	720.4	676.7	636.8	602.0	575.6	552.9	532.3	513.2
50°	1020.5	944.2	871.7	805.0	741.8	693.1	651.0	615.2	589.5	566.8	544.7
52.5°	1165.6	1065.0	972.1	893.2	819.3	751.0	700.8	658.9	624.8	600.1	590.8
55°	1307.5	1192.2	1084.2	983.0	898.6	820.3	749.8	703.5	676.7	660.3	656.1
57.5°	1452.8	1313.2	1193.7	1081.4	978.1	891.0	821.4	769.5	736.0	716.6	712.9
60°	1597.8	1437.7	1293.6	1173.2	1067.1	974.7	896.9	832.6	794.9	772.2	764.6
62.5°	1745.7	1556.7	1400.3	1270.4	1157.0	1052.1	968.5	899.7	849.7	822.0	812.3
65°	1869.2	1700.4	1520.8	1368.3	1241.6	1129.7	1033.2	957.9	902.0	871.9	861.0
67.5°	1979.6	1820.2	1644.5	1473.5	1319.3	1197.3	1094.1	1014.4	955.4	918.9	905.2
70°	2053.9	1911.7	1753.7	1570.4	1402.7	1264.1	1152.4	1064.4	1001.5	961.5	945.2
72.5°	2122.0	1981.3	1821.1	1652.5	1483.9	1323.0	1201.4	1109.9	1041.9	1002.9	985.3
75°	2175.7	2037.9	1880.3	1714.0	1555.2	1378.7	1249.9	1154.4	1086.6	1043.0	1020.2
77.5°	2220.0	2085.1	1925.0	1762.9	1605.7	1439.4	1300.9	1200.5	1128.3	1080.8	1054.5
80°	2245.2	2123.1	1975.3	1809.2	1646.0	1485.9	1342.9	1240.5	1166.4	1116.5	1088.1
82.5°	2267.6	2150.7	2015.6	1846.0	1677.4	1519.4	1376.8	1275.0	1201.2	1150.2	1121.0
85°	2282.4	2164.8	2045.0	1872.6	1699.6	1541.2	1403.3	1304.5	1232.9	1182.2	1153.3
87.5°	2288.3	2170.9	2069.1	1894.1	1717.1	1556.5	1425.8	1331.3	1263.0	1213.4	1185.3
90°	2284.6	2160.0	2069.5	1893.8	1716.3	1556.8	1438.5	1351.6	1288.8	1242.2	1216.2
92.5°	2288.3	2170.9	2069.1	1894.1	1717.1	1556.5	1425.8	1331.3	1263.0	1213.4	1185.3
95°	2282.4	2164.8	2045.0	1872.6	1699.6	1541.2	1403.3	1304.5	1232.9	1182.2	1153.3
97.5°	2267.6	2150.7	2015.6	1846.0	1677.4	1519.4	1376.8	1275.0	1201.2	1150.2	1121.0
100°	2245.2	2123.1	1975.3	1809.2	1646.0	1485.9	1342.9	1240.5	1166.4	1116.5	1088.1
102.5°	2220.0	2085.1	1925.0	1762.9	1605.7	1439.4	1300.9	1200.5	1128.3	1080.8	1054.5
105°	2175.7	2037.9	1880.3	1714.0	1555.2	1378.7	1249.9	1154.4	1086.6	1043.0	1020.2
107.5°	2122.0	1981.3	1821.1	1652.5	1483.9	1323.0	1201.4	1109.9	1041.9	1002.9	985.3
110°	2053.9	1911.7	1753.7	1570.4	1402.7	1264.1	1152.4	1064.4	1001.5	961.5	945.2



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-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°	1979.6	1820.2	1644.5	1473.5	1319.3	1197.3	1094.1	1014.4	955.4	918.9	905.2
115°	1869.2	1700.4	1520.8	1368.3	1241.6	1129.7	1033.2	957.9	902.0	871.9	861.0
117.5°	1745.7	1556.7	1400.3	1270.4	1157.0	1052.1	968.5	899.7	849.7	822.0	812.3
120°	1597.8	1437.7	1293.6	1173.2	1067.1	974.7	896.9	832.6	794.9	772.2	764.6
122.5°	1452.8	1313.2	1193.7	1081.4	978.1	891.0	821.4	769.5	736.0	716.6	712.9
125°	1307.5	1192.2	1084.2	983.0	898.6	820.3	749.8	703.5	676.7	660.3	656.1
127.5°	1165.6	1065.0	972.1	893.2	819.3	751.0	700.8	658.9	624.8	600.1	590.8
130°	1020.5	944.2	871.7	805.0	741.8	693.1	651.0	615.2	589.5	566.8	544.7
132.5°	898.4	835.5	776.5	720.4	676.7	636.8	602.0	575.6	552.9	532.3	513.2
135°	785.9	733.5	690.6	650.4	615.0	582.0	557.3	535.1	516.2	497.8	481.4
137.5°	684.4	649.4	614.8	584.7	556.9	533.9	513.1	496.2	479.2	464.2	448.1
140°	601.0	571.9	545.1	523.6	504.4	487.0	472.0	457.2	443.8	429.3	413.7
142.5°	525.9	505.2	485.5	470.4	456.7	443.7	431.8	419.9	407.1	393.4	379.2
145°	464.4	448.7	435.9	423.2	412.3	402.8	392.5	381.5	369.7	356.9	343.6
147.5°	409.3	398.6	389.9	381.5	372.2	362.3	352.8	342.6	331.1	319.0	307.7
150°	360.8	355.0	349.2	342.3	334.8	325.9	315.0	302.5	291.1	281.0	270.6
152.5°	320.3	316.9	312.3	306.5	299.4	290.9	282.5	271.1	259.5	247.0	235.3
155°	286.4	283.3	278.9	273.5	267.7	261.3	253.6	244.7	235.2	225.3	216.0
157.5°	257.0	255.0	252.1	248.1	243.2	236.7	229.3	221.4	213.2	205.9	198.6
160°	237.2	233.7	229.1	224.0	218.4	212.3	206.2	200.0	193.7	187.3	180.3
162.5°	211.3	207.6	203.3	198.8	194.0	189.0	183.9	178.2	171.9	165.5	159.1
165°	183.2	180.0	176.4	172.2	167.5	162.6	157.5	152.3	146.9	142.2	137.4
167.5°	150.2	147.2	143.8	140.3	136.9	133.9	130.8	127.4	123.8	120.0	116.1
170°	118.2	116.7	114.9	113.0	110.8	108.5	105.7	102.5	99.1	95.5	91.8
172.5°	87.7	86.2	84.5	82.7	80.8	78.6	76.4	73.9	71.4	69.1	66.8
175°	54.4	53.8	53.1	52.3	51.4	50.3	49.2	48.0	46.6	45.2	43.7
177.5°	26.7	26.5	26.3	26.0	25.7	25.3	24.9	24.4	23.9	23.4	22.8
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
2.5°	22.2	21.5	20.8	20.1	19.3	18.6	17.7	16.9	16.0	15.1	14.2
5°	42.1	40.4	38.6	37.1	35.7	34.1	32.5	30.9	29.2	27.4	25.6
7.5°	64.4	61.8	59.1	56.3	53.4	50.3	47.2	44.6	42.1	39.5	36.8
10°	88.0	84.0	80.1	76.1	72.1	68.0	63.8	59.5	55.0	51.4	47.9
12.5°	111.4	106.6	101.6	96.5	91.2	85.9	80.6	75.1	69.5	63.7	58.8
15°	132.5	127.3	122.6	116.0	109.9	103.8	97.5	90.9	84.0	77.0	69.9
17.5°	153.3	146.6	140.4	134.0	127.3	120.5	113.5	106.5	98.7	90.4	82.0
20°	173.0	165.7	158.4	151.2	143.7	136.1	128.5	120.9	113.2	103.9	94.2
22.5°	191.2	183.5	175.6	167.8	159.6	151.1	142.5	134.4	126.3	117.4	106.5
25°	207.1	199.1	191.0	182.8	178.0	172.4	166.0	159.4	153.0	146.0	136.2
27.5°	227.6	222.5	218.5	214.3	209.8	205.0	198.9	192.1	185.1	177.6	168.3
30°	262.4	254.6	248.5	244.4	240.1	235.6	230.6	224.0	217.5	208.9	200.5
32.5°	296.4	287.1	279.1	273.2	269.1	264.9	260.5	254.9	248.1	240.1	231.0
35°	331.1	319.1	309.7	301.7	296.8	292.9	289.0	285.3	278.4	271.0	261.4
37.5°	364.7	351.6	339.2	330.7	323.8	319.9	316.5	313.0	307.9	301.6	291.7
40°	398.2	382.8	369.8	357.9	350.7	345.7	342.9	340.2	336.6	330.9	321.9
42.5°	430.7	414.4	398.8	386.1	376.9	370.5	368.4	366.4	364.5	359.7	351.8
45°	463.4	444.5	428.0	413.7	401.6	396.0	393.0	391.8	391.0	387.8	381.6
47.5°	495.6	475.3	456.5	440.7	427.6	423.7	424.4	424.7	422.6	417.3	408.2
50°	525.7	508.8	504.7	501.8	496.3	487.9	478.5	470.3	460.6	449.1	434.9
52.5°	585.3	585.4	587.6	586.1	576.3	558.8	539.2	520.1	501.6	482.8	462.5
55°	652.3	655.4	663.2	672.0	660.1	635.5	605.1	573.7	545.2	518.5	491.5
57.5°	714.7	720.2	732.0	752.2	744.3	716.2	675.6	630.8	591.7	556.2	521.6
60°	771.6	780.7	797.5	823.5	829.7	800.7	750.5	691.7	641.6	595.7	552.9
62.5°	823.4	838.4	859.2	889.8	916.1	888.4	828.5	757.4	693.7	636.8	585.1
65°	870.4	892.0	917.2	951.6	1002.6	973.9	908.4	825.8	747.7	679.2	618.1
67.5°	913.2	942.1	972.1	1011.7	1071.1	1057.8	990.1	896.5	803.4	722.7	651.7
70°	953.6	988.8	1026.2	1068.3	1120.5	1110.9	1035.2	931.4	826.9	738.4	661.6
72.5°	989.2	1015.4	1049.9	1083.6	1118.8	1112.8	1041.4	942.1	836.7	746.6	667.8
75°	1017.7	1036.3	1070.0	1102.5	1123.6	1114.9	1044.9	950.7	845.1	754.0	673.5
77.5°	1047.0	1059.2	1090.1	1124.5	1133.6	1116.9	1046.0	957.2	852.3	760.6	678.8
80°	1076.9	1083.8	1110.5	1148.9	1147.9	1118.6	1045.0	961.8	858.2	766.4	683.6
82.5°	1107.4	1109.9	1131.3	1175.2	1165.0	1119.7	1041.9	964.6	862.9	771.4	690.6
85°	1138.2	1137.2	1152.9	1202.6	1183.9	1123.0	1039.4	968.5	868.6	777.2	692.9
87.5°	1169.2	1165.1	1174.7	1230.9	1204.0	1119.8	1031.5	966.0	869.5	779.4	695.1
90°	1200.1	1193.8	1199.2	1258.4	1221.6	1116.7	1023.5	963.5	870.3	781.5	697.3
92.5°	1169.2	1165.1	1174.7	1230.9	1204.0	1119.8	1031.5	966.0	869.5	779.4	695.1
95°	1138.2	1137.2	1152.9	1202.6	1183.9	1123.0	1039.4	968.5	868.6	777.2	692.9
97.5°	1107.4	1109.9	1131.3	1175.2	1165.0	1119.7	1041.9	964.6	862.9	771.4	690.6
100°	1076.9	1083.8	1110.5	1148.9	1147.9	1118.6	1045.0	961.8	858.2	766.4	683.6
102.5°	1047.0	1059.2	1090.1	1124.5	1133.6	1116.9	1046.0	957.2	852.3	760.6	678.8
105°	1017.7	1036.3	1070.0	1102.5	1123.6	1114.9	1044.9	950.7	845.1	754.0	673.5
107.5°	989.2	1015.4	1049.9	1083.6	1118.8	1112.8	1041.4	942.1	836.7	746.6	667.8
110°	953.6	988.8	1026.2	1068.3	1120.5	1110.9	1035.2	931.4	826.9	738.4	661.6



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	913.2	942.1	972.1	1011.7	1071.1	1057.8	990.1	896.5	803.4	722.7	651.7
115°	870.4	892.0	917.2	951.6	1002.6	973.9	908.4	825.8	747.7	679.2	618.1
117.5°	823.4	838.4	859.2	889.8	916.1	888.4	828.5	757.4	693.7	636.8	585.1
120°	771.6	780.7	797.5	823.5	829.7	800.7	750.5	691.7	641.6	595.7	552.9
122.5°	714.7	720.2	732.0	752.2	744.3	716.2	675.6	630.8	591.7	556.2	521.6
125°	652.3	655.4	663.2	672.0	660.1	635.5	605.1	573.7	545.2	518.5	491.5
127.5°	585.3	585.4	587.6	586.1	576.3	558.8	539.2	520.1	501.6	482.8	462.5
130°	525.7	508.8	504.7	501.8	496.3	487.9	478.5	470.3	460.6	449.1	434.9
132.5°	495.6	475.3	456.5	440.7	427.6	423.7	424.4	424.7	422.6	417.3	408.2
135°	463.4	444.5	428.0	413.7	401.6	396.0	393.0	391.8	391.0	387.8	381.6
137.5°	430.7	414.4	398.8	386.1	376.9	370.5	368.4	366.4	364.5	359.7	351.8
140°	398.2	382.8	369.8	357.9	350.7	345.7	342.9	340.2	336.6	330.9	321.9
142.5°	364.7	351.6	339.2	330.7	323.8	319.9	316.5	313.0	307.9	301.6	291.7
145°	331.1	319.1	309.7	301.7	296.8	292.9	289.0	285.3	278.4	271.0	261.4
147.5°	296.4	287.1	279.1	273.2	269.1	264.9	260.5	254.9	248.1	240.1	231.0
150°	262.4	254.6	248.5	244.4	240.1	235.6	230.6	224.0	217.5	208.9	200.5
152.5°	227.6	222.5	218.5	214.3	209.8	205.0	198.9	192.1	185.1	177.6	168.3
155°	207.1	199.1	191.0	182.8	178.0	172.4	166.0	159.4	153.0	146.0	136.2
157.5°	191.2	183.5	175.6	167.8	159.6	151.1	142.5	134.4	126.3	117.4	106.5
160°	173.0	165.7	158.4	151.2	143.7	136.1	128.5	120.9	113.2	103.9	94.2
162.5°	153.3	146.6	140.4	134.0	127.3	120.5	113.5	106.5	98.7	90.4	82.0
165°	132.5	127.3	122.6	116.0	109.9	103.8	97.5	90.9	84.0	77.0	69.9
167.5°	111.4	106.6	101.6	96.5	91.2	85.9	80.6	75.1	69.5	63.7	58.8
170°	88.0	84.0	80.1	76.1	72.1	68.0	63.8	59.5	55.0	51.4	47.9
172.5°	64.4	61.8	59.1	56.3	53.4	50.3	47.2	44.6	42.1	39.5	36.8
175°	42.1	40.4	38.6	37.1	35.7	34.1	32.5	30.9	29.2	27.4	25.6
177.5°	22.2	21.5	20.8	20.1	19.3	18.6	17.7	16.9	16.0	15.1	14.2
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
2.5°	13.3	12.3	11.4	10.4	10.3	10.3	10.2	10.1	10.1	10.0	9.8
5°	23.8	21.9	20.0	18.0	17.9	17.8	17.6	17.4	17.2	16.9	16.6
7.5°	34.1	31.4	28.6	25.7	25.4	25.1	24.8	24.4	24.0	23.6	23.1
10°	44.4	40.8	37.1	33.4	32.9	32.4	31.9	31.3	30.6	30.0	29.5
12.5°	54.5	50.1	45.6	41.0	40.3	39.6	38.8	37.9	37.2	36.6	36.0
15°	64.5	59.3	54.1	48.7	47.7	46.7	45.6	44.5	43.9	43.2	42.5
17.5°	74.4	68.5	62.5	56.4	55.1	53.7	52.2	51.3	50.6	49.9	49.1
20°	84.4	77.6	70.9	64.0	62.3	60.6	58.8	58.1	57.4	56.6	55.9
22.5°	95.3	86.5	79.2	71.7	69.6	67.3	65.7	65.0	64.1	63.4	62.7
25°	125.2	115.1	106.9	98.3	94.8	91.0	87.9	85.1	82.3	79.7	77.0
27.5°	156.4	144.5	134.9	124.9	120.0	114.8	110.6	106.3	102.5	98.9	94.9
30°	187.4	174.0	163.0	151.5	145.1	138.3	132.6	126.7	122.0	117.2	111.8
32.5°	218.3	204.0	191.2	178.1	170.0	161.7	154.1	146.9	140.9	134.5	127.7
35°	249.1	233.9	219.4	204.6	194.7	184.6	175.1	166.5	159.0	150.9	142.7
37.5°	279.7	263.8	247.7	231.2	219.3	207.3	195.5	185.6	176.8	166.6	156.5
40°	310.2	293.5	276.0	257.8	243.8	229.6	215.4	204.2	193.1	181.6	169.4
42.5°	340.4	323.1	304.4	284.4	268.1	251.6	235.4	222.4	209.3	196.3	181.4
45°	369.8	352.7	332.9	311.0	292.3	273.2	254.7	240.1	224.9	209.1	192.6
47.5°	391.8	370.5	347.2	323.7	301.9	280.6	261.2	245.8	230.7	215.1	198.7
50°	413.9	388.4	361.3	336.5	311.1	287.1	266.1	248.8	232.8	216.8	200.2
52.5°	436.8	406.6	375.4	349.2	320.2	293.6	270.8	251.9	235.0	219.0	202.7
55°	460.5	425.3	389.5	362.0	329.2	299.8	275.3	255.1	237.5	221.5	206.1
57.5°	484.8	444.3	403.6	374.7	338.0	306.0	279.7	258.3	240.4	224.6	210.4
60°	509.7	463.6	417.6	387.5	346.8	312.1	283.9	261.5	243.6	228.5	216.0
62.5°	535.2	483.1	431.7	400.2	355.5	318.2	288.1	264.9	247.1	233.1	221.3
65°	561.0	502.8	445.7	413.0	364.1	324.2	292.2	268.3	250.8	238.2	227.9
67.5°	587.2	522.7	459.6	425.7	372.7	330.2	296.2	271.8	254.9	243.9	235.1
70°	593.0	526.8	463.9	424.6	370.3	327.6	293.4	269.3	253.2	243.6	236.4
72.5°	597.0	530.0	468.3	423.5	367.9	325.0	290.3	266.1	250.2	241.1	234.0
75°	600.6	532.9	474.4	422.4	365.6	322.5	287.3	263.1	247.3	238.6	231.8
77.5°	603.9	535.3	478.4	421.3	363.4	320.1	284.5	260.2	244.6	236.3	229.8
80°	606.7	539.1	482.4	420.3	361.3	318.0	281.9	257.5	242.0	234.0	227.9
82.5°	610.9	540.1	486.4	419.2	359.3	316.0	279.5	254.9	239.5	231.8	226.1
85°	611.9	541.1	490.3	418.1	357.4	314.1	277.2	252.5	237.2	229.8	224.5
87.5°	612.9	542.1	494.3	417.0	355.7	312.5	275.2	250.3	235.0	227.8	222.9
90°	613.9	543.1	498.3	415.9	354.0	311.0	273.4	248.3	233.0	225.9	221.4
92.5°	612.9	542.1	494.3	417.0	355.7	312.5	275.2	250.3	235.0	227.8	222.9
95°	611.9	541.1	490.3	418.1	357.4	314.1	277.2	252.5	237.2	229.8	224.5
97.5°	610.9	540.1	486.4	419.2	359.3	316.0	279.5	254.9	239.5	231.8	226.1
100°	606.7	539.1	482.4	420.3	361.3	318.0	281.9	257.5	242.0	234.0	227.9
102.5°	603.9	535.3	478.4	421.3	363.4	320.1	284.5	260.2	244.6	236.3	229.8
105°	600.6	532.9	474.4	422.4	365.6	322.5	287.3	263.1	247.3	238.6	231.8
107.5°	597.0	530.0	468.3	423.5	367.9	325.0	290.3	266.1	250.2	241.1	234.0
110°	593.0	526.8	463.9	424.6	370.3	327.6	293.4	269.3	253.2	243.6	236.4



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-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°	587.2	522.7	459.6	425.7	372.7	330.2	296.2	271.8	254.9	243.9	235.1
115°	561.0	502.8	445.7	413.0	364.1	324.2	292.2	268.3	250.8	238.2	227.9
117.5°	535.2	483.1	431.7	400.2	355.5	318.2	288.1	264.9	247.1	233.1	221.3
120°	509.7	463.6	417.6	387.5	346.8	312.1	283.9	261.5	243.6	228.5	216.0
122.5°	484.8	444.3	403.6	374.7	338.0	306.0	279.7	258.3	240.4	224.6	210.4
125°	460.5	425.3	389.5	362.0	329.2	299.8	275.3	255.1	237.5	221.5	206.1
127.5°	436.8	406.6	375.4	349.2	320.2	293.6	270.8	251.9	235.0	219.0	202.7
130°	413.9	388.4	361.3	336.5	311.1	287.1	266.1	248.8	232.8	216.8	200.2
132.5°	391.8	370.5	347.2	323.7	301.9	280.6	261.2	245.8	230.7	215.1	198.7
135°	369.8	352.7	332.9	311.0	292.3	273.2	254.7	240.1	224.9	209.1	192.6
137.5°	340.4	323.1	304.4	284.4	268.1	251.6	235.4	222.4	209.3	196.3	181.4
140°	310.2	293.5	276.0	257.8	243.8	229.6	215.4	204.2	193.1	181.6	169.4
142.5°	279.7	263.8	247.7	231.2	219.3	207.3	195.5	185.6	176.8	166.6	156.5
145°	249.1	233.9	219.4	204.6	194.7	184.6	175.1	166.5	159.0	150.9	142.7
147.5°	218.3	204.0	191.2	178.1	170.0	161.7	154.1	146.9	140.9	134.5	127.7
150°	187.4	174.0	163.0	151.5	145.1	138.3	132.6	126.7	122.0	117.2	111.8
152.5°	156.4	144.5	134.9	124.9	120.0	114.8	110.6	106.3	102.5	98.9	94.9
155°	125.2	115.1	106.9	98.3	94.8	91.0	87.9	85.1	82.3	79.7	77.0
157.5°	95.3	86.5	79.2	71.7	69.6	67.3	65.7	65.0	64.1	63.4	62.7
160°	84.4	77.6	70.9	64.0	62.3	60.6	58.8	58.1	57.4	56.6	55.9
162.5°	74.4	68.5	62.5	56.4	55.1	53.7	52.2	51.3	50.6	49.9	49.1
165°	64.5	59.3	54.1	48.7	47.7	46.7	45.6	44.5	43.9	43.2	42.5
167.5°	54.5	50.1	45.6	41.0	40.3	39.6	38.8	37.9	37.2	36.6	36.0
170°	44.4	40.8	37.1	33.4	32.9	32.4	31.9	31.3	30.6	30.0	29.5
172.5°	34.1	31.4	28.6	25.7	25.4	25.1	24.8	24.4	24.0	23.6	23.1
175°	23.8	21.9	20.0	18.0	17.9	17.8	17.6	17.4	17.2	16.9	16.6
177.5°	13.3	12.3	11.4	10.4	10.3	10.3	10.2	10.1	10.1	10.0	9.8
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
2.5°	9.7	9.6	9.4	9.3	9.1	8.9	8.7	8.5	8.3	8.1	7.8
5°	16.3	16.0	15.7	15.3	14.9	14.6	14.2	13.7	13.3	12.8	12.3
7.5°	22.6	22.2	21.7	21.2	20.6	20.1	19.5	18.8	18.1	17.5	16.8
10°	29.0	28.4	27.7	27.1	26.3	25.7	25.0	24.3	23.5	22.7	21.9
12.5°	35.3	34.6	33.9	33.2	32.5	31.7	30.9	30.0	29.0	27.9	26.8
15°	41.7	41.1	40.4	39.6	38.7	37.7	36.6	35.4	34.2	32.9	31.6
17.5°	48.5	47.7	46.9	45.8	44.7	43.5	42.2	40.8	39.4	37.9	36.4
20°	55.2	54.3	53.2	51.9	50.6	49.2	47.7	46.2	44.5	42.6	40.8
22.5°	61.9	60.7	59.4	58.0	56.5	54.9	53.2	51.2	49.2	47.1	45.2
25°	73.8	70.5	67.2	64.0	62.3	60.3	58.2	56.0	54.0	51.9	49.8
27.5°	90.6	86.3	81.9	77.6	73.0	68.6	64.6	61.2	59.0	56.5	53.9
30°	106.3	100.7	95.1	89.2	83.4	78.1	73.3	68.9	65.0	61.2	58.0
32.5°	120.8	113.7	106.4	99.0	92.1	85.6	79.9	75.0	70.4	66.2	62.3
35°	134.0	125.3	116.0	107.2	98.8	91.4	85.3	79.6	74.6	70.0	66.2
37.5°	146.1	135.2	124.2	113.6	103.9	96.4	89.4	83.3	78.0	73.7	69.6
40°	157.0	143.7	130.8	118.3	108.7	100.2	92.8	86.5	81.5	77.1	73.0
42.5°	166.4	151.1	135.9	122.9	112.5	103.5	95.7	90.0	85.0	80.5	76.2
45°	174.9	157.1	139.6	127.0	115.8	105.9	99.2	93.4	88.5	84.0	79.6
47.5°	180.7	161.7	144.0	130.2	118.6	109.4	102.4	97.1	92.2	87.7	82.7
50°	182.8	164.2	148.6	134.8	122.0	113.0	106.3	100.8	96.2	91.1	85.9
52.5°	185.8	168.4	153.8	140.6	129.5	120.6	113.6	107.1	100.0	94.5	89.6
55°	190.1	174.2	159.8	147.0	137.3	129.5	123.2	117.5	109.0	100.8	93.4
57.5°	195.3	180.5	166.8	154.7	145.3	139.0	134.0	126.9	117.3	107.7	99.0
60°	201.6	187.2	174.2	163.2	154.8	149.2	145.6	135.7	124.3	113.3	103.5
62.5°	208.7	194.5	182.1	171.8	164.9	160.8	155.7	144.0	130.1	118.0	107.2
65°	216.2	202.4	190.5	180.6	175.3	173.1	164.8	150.5	135.2	122.0	110.3
67.5°	224.1	210.9	199.6	190.4	186.2	185.9	173.7	156.3	139.9	125.7	113.0
70°	226.8	216.0	206.7	200.3	198.5	197.1	182.2	161.4	144.0	129.1	115.2
72.5°	224.6	215.0	206.4	200.7	200.2	197.8	184.2	165.5	148.1	132.2	117.0
75°	222.9	214.6	206.2	200.8	200.1	195.3	182.8	167.3	151.1	134.7	119.3
77.5°	221.5	214.5	206.2	200.8	199.7	193.6	183.3	170.4	154.3	137.4	122.1
80°	220.5	214.7	206.3	200.8	198.9	192.6	185.4	174.6	157.9	140.6	125.1
82.5°	219.8	215.2	206.7	200.7	197.9	192.1	188.8	179.8	161.9	144.4	128.6
85°	219.3	216.0	207.2	200.6	196.8	192.0	193.0	185.7	166.5	148.7	132.6
87.5°	218.9	216.8	207.9	200.7	195.6	192.3	197.8	192.2	171.6	153.8	137.2
90°	218.7	217.8	208.8	200.8	194.5	192.7	202.6	199.0	177.5	159.5	142.5
92.5°	218.9	216.8	207.9	200.7	195.6	192.3	197.8	192.2	171.6	153.8	137.2
95°	219.3	216.0	207.2	200.6	196.8	192.0	193.0	185.7	166.5	148.7	132.6
97.5°	219.8	215.2	206.7	200.7	197.9	192.1	188.8	179.8	161.9	144.4	128.6
100°	220.5	214.7	206.3	200.8	198.9	192.6	185.4	174.6	157.9	140.6	125.1
102.5°	221.5	214.5	206.2	200.8	199.7	193.6	183.3	170.4	154.3	137.4	122.1
105°	222.9	214.6	206.2	200.8	200.1	195.3	182.8	167.3	151.1	134.7	119.3
107.5°	224.6	215.0	206.4	200.7	200.2	197.8	184.2	165.5	148.1	132.2	117.0
110°	226.8	216.0	206.7	200.3	198.5	197.1	182.2	161.4	144.0	129.1	115.2



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	224.1	210.9	199.6	190.4	186.2	185.9	173.7	156.3	139.9	125.7	113.0
115°	216.2	202.4	190.5	180.6	175.3	173.1	164.8	150.5	135.2	122.0	110.3
117.5°	208.7	194.5	182.1	171.8	164.9	160.8	155.7	144.0	130.1	118.0	107.2
120°	201.6	187.2	174.2	163.2	154.8	149.2	145.6	135.7	124.3	113.3	103.5
122.5°	195.3	180.5	166.8	154.7	145.3	139.0	134.0	126.9	117.3	107.7	99.0
125°	190.1	174.2	159.8	147.0	137.3	129.5	123.2	117.5	109.0	100.8	93.4
127.5°	185.8	168.4	153.8	140.6	129.5	120.6	113.6	107.1	100.0	94.5	89.6
130°	182.8	164.2	148.6	134.8	122.0	113.0	106.3	100.8	96.2	91.1	85.9
132.5°	180.7	161.7	144.0	130.2	118.6	109.4	102.4	97.1	92.2	87.7	82.7
135°	174.9	157.1	139.6	127.0	115.8	105.9	99.2	93.4	88.5	84.0	79.6
137.5°	166.4	151.1	135.9	122.9	112.5	103.5	95.7	90.0	85.0	80.5	76.2
140°	157.0	143.7	130.8	118.3	108.7	100.2	92.8	86.5	81.5	77.1	73.0
142.5°	146.1	135.2	124.2	113.6	103.9	96.4	89.4	83.3	78.0	73.7	69.6
145°	134.0	125.3	116.0	107.2	98.8	91.4	85.3	79.6	74.6	70.0	66.2
147.5°	120.8	113.7	106.4	99.0	92.1	85.6	79.9	75.0	70.4	66.2	62.3
150°	106.3	100.7	95.1	89.2	83.4	78.1	73.3	68.9	65.0	61.2	58.0
152.5°	90.6	86.3	81.9	77.6	73.0	68.6	64.6	61.2	59.0	56.5	53.9
155°	73.8	70.5	67.2	64.0	62.3	60.3	58.2	56.0	54.0	51.9	49.8
157.5°	61.9	60.7	59.4	58.0	56.5	54.9	53.2	51.2	49.2	47.1	45.2
160°	55.2	54.3	53.2	51.9	50.6	49.2	47.7	46.2	44.5	42.6	40.8
162.5°	48.5	47.7	46.9	45.8	44.7	43.5	42.2	40.8	39.4	37.9	36.4
165°	41.7	41.1	40.4	39.6	38.7	37.7	36.6	35.4	34.2	32.9	31.6
167.5°	35.3	34.6	33.9	33.2	32.5	31.7	30.9	30.0	29.0	27.9	26.8
170°	29.0	28.4	27.7	27.1	26.3	25.7	25.0	24.3	23.5	22.7	21.9
172.5°	22.6	22.2	21.7	21.2	20.6	20.1	19.5	18.8	18.1	17.5	16.8
175°	16.3	16.0	15.7	15.3	14.9	14.6	14.2	13.7	13.3	12.8	12.3
177.5°	9.7	9.6	9.4	9.3	9.1	8.9	8.7	8.5	8.3	8.1	7.8
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
2.5°	7.6	7.3	7.1	6.8	6.5	6.3	6.0	5.7	5.4	5.1	4.8
5°	11.8	11.3	10.8	10.2	9.7	9.1	8.5	8.0	7.4	6.8	6.1
7.5°	16.2	15.5	14.8	14.0	13.2	12.4	11.6	10.8	10.0	9.1	8.2
10°	21.0	20.1	19.1	18.1	17.0	15.9	14.9	13.7	12.6	11.5	10.3
12.5°	25.6	24.5	23.2	22.0	20.7	19.3	18.0	16.6	15.2	13.8	12.3
15°	30.2	28.8	27.3	25.8	24.3	22.6	21.0	19.3	17.6	15.9	14.2
17.5°	34.7	33.0	31.2	29.4	27.5	25.7	23.8	21.9	20.0	18.1	16.1
20°	38.8	36.9	35.0	33.0	31.0	28.9	26.8	24.6	22.4	20.2	17.9
22.5°	43.1	41.1	38.9	36.6	34.3	31.9	29.5	27.0	24.6	22.1	19.6
25°	47.4	44.9	42.4	39.9	37.3	34.7	32.0	29.3	26.6	23.9	21.2
27.5°	51.3	48.6	45.8	43.0	40.2	37.4	34.5	31.6	28.6	25.7	22.8
30°	55.0	52.1	49.1	46.1	43.0	40.0	36.9	33.7	30.6	27.3	24.1
32.5°	58.9	55.5	52.3	49.1	45.8	42.4	38.9	35.4	32.0	28.5	25.1
35°	62.4	58.9	55.5	51.8	48.0	44.3	40.6	36.9	33.2	29.6	26.2
37.5°	65.8	62.0	58.0	54.0	49.9	46.0	42.1	38.4	34.8	31.1	27.3
40°	68.9	64.7	60.5	56.1	51.9	48.0	44.1	39.9	35.6	31.5	27.5
42.5°	71.9	67.4	62.8	58.7	54.5	49.8	44.9	40.3	36.1	32.1	28.1
45°	74.8	70.1	65.8	61.2	56.0	50.9	46.0	41.2	36.8	32.6	28.5
47.5°	77.8	73.3	68.3	62.9	57.6	52.5	47.4	42.4	37.4	33.1	29.0
50°	81.2	76.0	70.5	64.9	59.4	54.1	48.8	43.4	38.4	33.8	29.8
52.5°	84.3	78.6	72.6	66.8	61.3	55.5	49.7	44.5	39.6	34.7	30.0
55°	87.2	81.0	74.9	69.1	62.7	56.5	50.9	45.6	40.4	35.2	30.5
57.5°	91.0	83.5	77.4	70.6	63.9	57.8	52.1	46.5	41.2	36.1	30.9
60°	94.5	86.6	79.2	71.9	65.3	59.2	53.3	47.4	41.6	35.9	30.9
62.5°	97.4	88.7	80.2	72.8	66.6	60.7	54.2	47.7	41.4	36.0	30.9
65°	99.7	89.9	81.1	73.4	66.9	60.7	54.5	47.5	41.5	35.5	29.6
67.5°	101.3	91.1	81.7	73.8	66.5	59.6	52.9	47.3	40.9	34.3	28.5
70°	102.9	92.0	82.3	73.7	65.9	58.1	51.2	45.0	39.2	33.2	27.0
72.5°	104.4	92.9	82.7	73.5	64.8	56.5	49.2	42.6	36.1	30.6	25.4
75°	106.1	93.9	83.0	73.2	63.8	54.9	47.3	39.8	33.0	27.4	23.3
77.5°	108.2	95.2	83.4	72.8	62.8	53.4	45.6	36.9	30.3	25.0	20.7
80°	110.4	96.6	84.0	72.2	61.2	51.6	43.1	34.7	28.1	22.6	17.8
82.5°	112.9	98.3	84.7	71.8	59.7	49.5	40.4	32.7	26.5	20.5	15.0
85°	115.9	100.5	85.7	71.7	58.6	47.7	38.7	31.3	25.6	20.2	14.8
87.5°	119.4	103.2	87.3	72.2	58.0	46.3	37.7	30.6	25.5	20.9	16.0
90°	123.7	106.7	89.6	73.5	58.3	45.7	37.6	30.5	26.0	22.4	17.9
92.5°	119.4	103.2	87.3	72.2	58.0	46.3	37.7	30.6	25.5	20.9	16.0
95°	115.9	100.5	85.7	71.7	58.6	47.7	38.7	31.3	25.6	20.2	14.8
97.5°	112.9	98.3	84.7	71.8	59.7	49.5	40.4	32.7	26.5	20.5	15.0
100°	110.4	96.6	84.0	72.2	61.2	51.6	43.1	34.7	28.1	22.6	17.8
102.5°	108.2	95.2	83.4	72.8	62.8	53.4	45.6	36.9	30.3	25.0	20.7
105°	106.1	93.9	83.0	73.2	63.8	54.9	47.3	39.8	33.0	27.4	23.3
107.5°	104.4	92.9	82.7	73.5	64.8	56.5	49.2	42.6	36.1	30.6	25.4
110°	102.9	92.0	82.3	73.7	65.9	58.1	51.2	45.0	39.2	33.2	27.0



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-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°	101.3	91.1	81.7	73.8	66.5	59.6	52.9	47.3	40.9	34.3	28.5
115°	99.7	89.9	81.1	73.4	66.9	60.7	54.5	47.5	41.5	35.5	29.6
117.5°	97.4	88.7	80.2	72.8	66.6	60.7	54.2	47.7	41.4	36.0	30.9
120°	94.5	86.6	79.2	71.9	65.3	59.2	53.3	47.4	41.6	35.9	30.9
122.5°	91.0	83.5	77.4	70.6	63.9	57.8	52.1	46.5	41.2	36.1	30.9
125°	87.2	81.0	74.9	69.1	62.7	56.5	50.9	45.6	40.4	35.2	30.5
127.5°	84.3	78.6	72.6	66.8	61.3	55.5	49.7	44.5	39.6	34.7	30.0
130°	81.2	76.0	70.5	64.9	59.4	54.1	48.8	43.4	38.4	33.8	29.8
132.5°	77.8	73.3	68.3	62.9	57.6	52.5	47.4	42.4	37.4	33.1	29.0
135°	74.8	70.1	65.8	61.2	56.0	50.9	46.0	41.2	36.8	32.6	28.5
137.5°	71.9	67.4	62.8	58.7	54.5	49.8	44.9	40.3	36.1	32.1	28.1
140°	68.9	64.7	60.5	56.1	51.9	48.0	44.1	39.9	35.6	31.5	27.5
142.5°	65.8	62.0	58.0	54.0	49.9	46.0	42.1	38.4	34.8	31.1	27.3
145°	62.4	58.9	55.5	51.8	48.0	44.3	40.6	36.9	33.2	29.6	26.2
147.5°	58.9	55.5	52.3	49.1	45.8	42.4	38.9	35.4	32.0	28.5	25.1
150°	55.0	52.1	49.1	46.1	43.0	40.0	36.9	33.7	30.6	27.3	24.1
152.5°	51.3	48.6	45.8	43.0	40.2	37.4	34.5	31.6	28.6	25.7	22.8
155°	47.4	44.9	42.4	39.9	37.3	34.7	32.0	29.3	26.6	23.9	21.2
157.5°	43.1	41.1	38.9	36.6	34.3	31.9	29.5	27.0	24.6	22.1	19.6
160°	38.8	36.9	35.0	33.0	31.0	28.9	26.8	24.6	22.4	20.2	17.9
162.5°	34.7	33.0	31.2	29.4	27.5	25.7	23.8	21.9	20.0	18.1	16.1
165°	30.2	28.8	27.3	25.8	24.3	22.6	21.0	19.3	17.6	15.9	14.2
167.5°	25.6	24.5	23.2	22.0	20.7	19.3	18.0	16.6	15.2	13.8	12.3
170°	21.0	20.1	19.1	18.1	17.0	15.9	14.9	13.7	12.6	11.5	10.3
172.5°	16.2	15.5	14.8	14.0	13.2	12.4	11.6	10.8	10.0	9.1	8.2
175°	11.8	11.3	10.8	10.2	9.7	9.1	8.5	8.0	7.4	6.8	6.1
177.5°	7.6	7.3	7.1	6.8	6.5	6.3	6.0	5.7	5.4	5.1	4.8
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
2.5°	4.5	4.2	3.9	3.6	3.3	3.0	2.7	3.0	3.3	3.6	3.9
5°	5.5	4.9	4.3	3.7	3.0	2.4	1.8	2.4	3.0	3.7	4.3
7.5°	7.3	6.4	5.5	4.6	3.7	2.7	1.8	2.7	3.7	4.6	5.5
10°	9.1	7.9	6.7	5.5	4.3	3.0	1.8	3.0	4.3	5.5	6.7
12.5°	10.8	9.4	7.9	6.4	4.8	3.3	1.8	3.3	4.8	6.4	7.9
15°	12.4	10.7	8.9	7.1	5.4	3.6	1.8	3.6	5.4	7.1	8.9
17.5°	14.1	12.1	10.0	8.0	5.9	3.9	1.8	3.9	5.9	8.0	10.0
20°	15.6	13.4	11.1	8.8	6.4	4.1	1.8	4.1	6.4	8.8	11.1
22.5°	17.1	14.6	12.0	9.5	6.9	4.4	1.8	4.4	6.9	9.5	12.0
25°	18.5	15.7	12.9	10.2	7.4	4.6	1.8	4.6	7.4	10.2	12.9
27.5°	19.8	16.8	13.8	10.8	7.8	4.8	1.8	4.8	7.8	10.8	13.8
30°	20.9	17.7	14.5	11.3	8.1	5.0	1.8	5.0	8.1	11.3	14.5
32.5°	21.7	18.4	15.0	11.7	8.4	5.1	1.8	5.1	8.4	11.7	15.0
35°	22.7	19.2	15.7	12.3	8.8	5.3	1.8	5.3	8.8	12.3	15.7
37.5°	23.4	19.7	16.0	12.4	8.8	5.3	1.8	5.3	8.8	12.4	16.0
40°	23.7	20.0	16.3	12.6	9.0	5.4	1.8	5.4	9.0	12.6	16.3
42.5°	24.2	20.3	16.5	12.8	9.1	5.4	1.8	5.4	9.1	12.8	16.5
45°	24.6	20.8	17.1	13.4	9.8	6.3	2.7	6.3	9.8	13.4	17.1
47.5°	25.1	21.3	17.6	13.8	10.1	6.4	2.7	6.4	10.1	13.8	17.6
50°	25.8	21.7	17.7	13.9	10.1	6.4	2.7	6.4	10.1	13.9	17.7
52.5°	25.7	21.8	17.9	14.1	10.2	6.5	2.7	6.5	10.2	14.1	17.9
55°	26.3	22.1	17.9	14.0	10.2	6.4	2.7	6.4	10.2	14.0	17.9
57.5°	26.1	21.9	17.9	14.0	10.2	6.5	2.7	6.5	10.2	14.0	17.9
60°	26.4	22.0	17.6	13.5	9.7	6.2	2.7	6.2	9.7	13.5	17.6
62.5°	25.6	20.6	16.6	12.8	9.3	6.0	2.7	6.0	9.3	12.8	16.6
65°	24.4	19.9	15.8	12.3	9.2	6.4	3.6	6.4	9.2	12.3	15.8
67.5°	23.2	18.7	14.8	11.4	8.3	5.4	2.7	5.4	8.3	11.4	14.8
70°	21.6	17.4	13.6	10.6	8.1	5.8	3.6	5.8	8.1	10.6	13.6
72.5°	20.6	16.6	13.1	9.7	7.2	5.2	3.6	5.2	7.2	9.7	13.1
75°	20.0	16.0	12.3	8.7	6.2	4.8	3.6	4.8	6.2	8.7	12.3
77.5°	17.7	16.0	11.4	6.7	2.3	0.5	0.0	0.5	2.3	6.7	11.4
80°	14.7	12.1	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4
82.5°	11.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	9.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	8.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	11.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	14.7	12.1	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4
102.5°	17.7	16.0	11.4	6.7	2.3	0.5	0.0	0.5	2.3	6.7	11.4
105°	20.0	16.0	12.3	8.7	6.2	4.8	3.6	4.8	6.2	8.7	12.3
107.5°	20.6	16.6	13.1	9.7	7.2	5.2	3.6	5.2	7.2	9.7	13.1
110°	21.6	17.4	13.6	10.6	8.1	5.8	3.6	5.8	8.1	10.6	13.6



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	23.2	18.7	14.8	11.4	8.3	5.4	2.7	5.4	8.3	11.4	14.8
115°	24.4	19.9	15.8	12.3	9.2	6.4	3.6	6.4	9.2	12.3	15.8
117.5°	25.6	20.6	16.6	12.8	9.3	6.0	2.7	6.0	9.3	12.8	16.6
120°	26.4	22.0	17.6	13.5	9.7	6.2	2.7	6.2	9.7	13.5	17.6
122.5°	26.1	21.9	17.9	14.0	10.2	6.5	2.7	6.5	10.2	14.0	17.9
125°	26.3	22.1	17.9	14.0	10.2	6.4	2.7	6.4	10.2	14.0	17.9
127.5°	25.7	21.8	17.9	14.1	10.2	6.5	2.7	6.5	10.2	14.1	17.9
130°	25.8	21.7	17.7	13.9	10.1	6.4	2.7	6.4	10.1	13.9	17.7
132.5°	25.1	21.3	17.6	13.8	10.1	6.4	2.7	6.4	10.1	13.8	17.6
135°	24.6	20.8	17.1	13.4	9.8	6.3	2.7	6.3	9.8	13.4	17.1
137.5°	24.2	20.3	16.5	12.8	9.1	5.4	1.8	5.4	9.1	12.8	16.5
140°	23.7	20.0	16.3	12.6	9.0	5.4	1.8	5.4	9.0	12.6	16.3
142.5°	23.4	19.7	16.0	12.4	8.8	5.3	1.8	5.3	8.8	12.4	16.0
145°	22.7	19.2	15.7	12.3	8.8	5.3	1.8	5.3	8.8	12.3	15.7
147.5°	21.7	18.4	15.0	11.7	8.4	5.1	1.8	5.1	8.4	11.7	15.0
150°	20.9	17.7	14.5	11.3	8.1	5.0	1.8	5.0	8.1	11.3	14.5
152.5°	19.8	16.8	13.8	10.8	7.8	4.8	1.8	4.8	7.8	10.8	13.8
155°	18.5	15.7	12.9	10.2	7.4	4.6	1.8	4.6	7.4	10.2	12.9
157.5°	17.1	14.6	12.0	9.5	6.9	4.4	1.8	4.4	6.9	9.5	12.0
160°	15.6	13.4	11.1	8.8	6.4	4.1	1.8	4.1	6.4	8.8	11.1
162.5°	14.1	12.1	10.0	8.0	5.9	3.9	1.8	3.9	5.9	8.0	10.0
165°	12.4	10.7	8.9	7.1	5.4	3.6	1.8	3.6	5.4	7.1	8.9
167.5°	10.8	9.4	7.9	6.4	4.8	3.3	1.8	3.3	4.8	6.4	7.9
170°	9.1	7.9	6.7	5.5	4.3	3.0	1.8	3.0	4.3	5.5	6.7
172.5°	7.3	6.4	5.5	4.6	3.7	2.7	1.8	2.7	3.7	4.6	5.5
175°	5.5	4.9	4.3	3.7	3.0	2.4	1.8	2.4	3.0	3.7	4.3
177.5°	4.5	4.2	3.9	3.6	3.3	3.0	2.7	3.0	3.3	3.6	3.9
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
2.5°	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.5	6.8	7.1
5°	4.9	5.5	6.1	6.8	7.4	8.0	8.5	9.1	9.7	10.2	10.8
7.5°	6.4	7.3	8.2	9.1	10.0	10.8	11.6	12.4	13.2	14.0	14.8
10°	7.9	9.1	10.3	11.5	12.6	13.7	14.9	15.9	17.0	18.1	19.1
12.5°	9.4	10.8	12.3	13.8	15.2	16.6	18.0	19.3	20.7	22.0	23.2
15°	10.7	12.4	14.2	15.9	17.6	19.3	21.0	22.6	24.3	25.8	27.3
17.5°	12.1	14.1	16.1	18.1	20.0	21.9	23.8	25.7	27.5	29.4	31.2
20°	13.4	15.6	17.9	20.2	22.4	24.6	26.8	28.9	31.0	33.0	35.0
22.5°	14.6	17.1	19.6	22.1	24.6	27.0	29.5	31.9	34.3	36.6	38.9
25°	15.7	18.5	21.2	23.9	26.6	29.3	32.0	34.7	37.3	39.9	42.4
27.5°	16.8	19.8	22.8	25.7	28.6	31.6	34.5	37.4	40.2	43.0	45.8
30°	17.7	20.9	24.1	27.3	30.6	33.7	36.9	40.0	43.0	46.1	49.1
32.5°	18.4	21.7	25.1	28.5	32.0	35.4	38.9	42.4	45.8	49.1	52.3
35°	19.2	22.7	26.2	29.6	33.2	36.9	40.6	44.3	48.0	51.8	55.5
37.5°	19.7	23.4	27.3	31.1	34.8	38.4	42.1	46.0	49.9	54.0	58.0
40°	20.0	23.7	27.5	31.5	35.6	39.9	44.1	48.0	51.9	56.1	60.5
42.5°	20.3	24.2	28.1	32.1	36.1	40.3	44.9	49.8	54.5	58.7	62.8
45°	20.8	24.6	28.5	32.6	36.8	41.2	46.0	50.9	56.0	61.2	65.8
47.5°	21.3	25.1	29.0	33.1	37.4	42.4	47.4	52.5	57.6	62.9	68.3
50°	21.7	25.8	29.8	33.8	38.4	43.4	48.8	54.1	59.4	64.9	70.5
52.5°	21.8	25.7	30.0	34.7	39.6	44.5	49.7	55.5	61.3	66.8	72.6
55°	22.1	26.3	30.5	35.2	40.4	45.6	50.9	56.5	62.7	69.1	74.9
57.5°	21.9	26.1	30.9	36.1	41.2	46.5	52.1	57.8	63.9	70.6	77.4
60°	22.0	26.4	30.9	35.9	41.6	47.4	53.3	59.2	65.3	71.9	79.2
62.5°	20.6	25.6	30.9	36.0	41.4	47.7	54.2	60.7	66.6	72.8	80.2
65°	19.9	24.4	29.6	35.5	41.5	47.5	54.5	60.7	66.9	73.4	81.1
67.5°	18.7	23.2	28.5	34.3	40.9	47.3	52.9	59.6	66.5	73.8	81.7
70°	17.4	21.6	27.0	33.2	39.2	45.0	51.2	58.1	65.9	73.7	82.3
72.5°	16.6	20.6	25.4	30.6	36.1	42.6	49.2	56.5	64.8	73.5	82.7
75°	16.0	20.0	23.3	27.4	33.0	39.8	47.3	54.9	63.8	73.2	83.0
77.5°	16.0	17.7	20.7	25.0	30.3	36.9	45.6	53.4	62.8	72.8	83.4
80°	12.1	14.7	17.8	22.6	28.1	34.7	43.1	51.6	61.2	72.2	84.0
82.5°	6.9	11.0	15.0	20.5	26.5	32.7	40.4	49.5	59.7	71.8	84.7
85°	2.4	8.9	14.8	20.2	25.6	31.3	38.7	47.7	58.6	71.7	85.7
87.5°	0.8	9.4	16.0	20.9	25.5	30.6	37.7	46.3	58.0	72.2	87.3
90°	0.0	10.8	17.9	22.4	26.0	30.5	37.6	45.7	58.3	73.5	89.6
92.5°	0.8	9.4	16.0	20.9	25.5	30.6	37.7	46.3	58.0	72.2	87.3
95°	2.4	8.9	14.8	20.2	25.6	31.3	38.7	47.7	58.6	71.7	85.7
97.5°	6.9	11.0	15.0	20.5	26.5	32.7	40.4	49.5	59.7	71.8	84.7
100°	12.1	14.7	17.8	22.6	28.1	34.7	43.1	51.6	61.2	72.2	84.0
102.5°	16.0	17.7	20.7	25.0	30.3	36.9	45.6	53.4	62.8	72.8	83.4
105°	16.0	20.0	23.3	27.4	33.0	39.8	47.3	54.9	63.8	73.2	83.0
107.5°	16.6	20.6	25.4	30.6	36.1	42.6	49.2	56.5	64.8	73.5	82.7
110°	17.4	21.6	27.0	33.2	39.2	45.0	51.2	58.1	65.9	73.7	82.3



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-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°	18.7	23.2	28.5	34.3	40.9	47.3	52.9	59.6	66.5	73.8	81.7
115°	19.9	24.4	29.6	35.5	41.5	47.5	54.5	60.7	66.9	73.4	81.1
117.5°	20.6	25.6	30.9	36.0	41.4	47.7	54.2	60.7	66.6	72.8	80.2
120°	22.0	26.4	30.9	35.9	41.6	47.4	53.3	59.2	65.3	71.9	79.2
122.5°	21.9	26.1	30.9	36.1	41.2	46.5	52.1	57.8	63.9	70.6	77.4
125°	22.1	26.3	30.5	35.2	40.4	45.6	50.9	56.5	62.7	69.1	74.9
127.5°	21.8	25.7	30.0	34.7	39.6	44.5	49.7	55.5	61.3	66.8	72.6
130°	21.7	25.8	29.8	33.8	38.4	43.4	48.8	54.1	59.4	64.9	70.5
132.5°	21.3	25.1	29.0	33.1	37.4	42.4	47.4	52.5	57.6	62.9	68.3
135°	20.8	24.6	28.5	32.6	36.8	41.2	46.0	50.9	56.0	61.2	65.8
137.5°	20.3	24.2	28.1	32.1	36.1	40.3	44.9	49.8	54.5	58.7	62.8
140°	20.0	23.7	27.5	31.5	35.6	39.9	44.1	48.0	51.9	56.1	60.5
142.5°	19.7	23.4	27.3	31.1	34.8	38.4	42.1	46.0	49.9	54.0	58.0
145°	19.2	22.7	26.2	29.6	33.2	36.9	40.6	44.3	48.0	51.8	55.5
147.5°	18.4	21.7	25.1	28.5	32.0	35.4	38.9	42.4	45.8	49.1	52.3
150°	17.7	20.9	24.1	27.3	30.6	33.7	36.9	40.0	43.0	46.1	49.1
152.5°	16.8	19.8	22.8	25.7	28.6	31.6	34.5	37.4	40.2	43.0	45.8
155°	15.7	18.5	21.2	23.9	26.6	29.3	32.0	34.7	37.3	39.9	42.4
157.5°	14.6	17.1	19.6	22.1	24.6	27.0	29.5	31.9	34.3	36.6	38.9
160°	13.4	15.6	17.9	20.2	22.4	24.6	26.8	28.9	31.0	33.0	35.0
162.5°	12.1	14.1	16.1	18.1	20.0	21.9	23.8	25.7	27.5	29.4	31.2
165°	10.7	12.4	14.2	15.9	17.6	19.3	21.0	22.6	24.3	25.8	27.3
167.5°	9.4	10.8	12.3	13.8	15.2	16.6	18.0	19.3	20.7	22.0	23.2
170°	7.9	9.1	10.3	11.5	12.6	13.7	14.9	15.9	17.0	18.1	19.1
172.5°	6.4	7.3	8.2	9.1	10.0	10.8	11.6	12.4	13.2	14.0	14.8
175°	4.9	5.5	6.1	6.8	7.4	8.0	8.5	9.1	9.7	10.2	10.8
177.5°	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.5	6.8	7.1
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
2.5°	7.3	7.6	7.8	8.1	8.3	8.5	8.7	8.9	9.1	9.3	9.4
5°	11.3	11.8	12.3	12.8	13.3	13.7	14.2	14.6	14.9	15.3	15.7
7.5°	15.5	16.2	16.8	17.5	18.1	18.8	19.5	20.1	20.6	21.2	21.7
10°	20.1	21.0	21.9	22.7	23.5	24.3	25.0	25.7	26.3	27.1	27.7
12.5°	24.5	25.6	26.8	27.9	29.0	30.0	30.9	31.7	32.5	33.2	33.9
15°	28.8	30.2	31.6	32.9	34.2	35.4	36.6	37.7	38.7	39.6	40.4
17.5°	33.0	34.7	36.4	37.9	39.4	40.8	42.2	43.5	44.7	45.8	46.9
20°	36.9	38.8	40.8	42.6	44.5	46.2	47.7	49.2	50.6	51.9	53.2
22.5°	41.1	43.1	45.2	47.1	49.2	51.2	53.2	54.9	56.5	58.0	59.4
25°	44.9	47.4	49.8	51.9	54.0	56.0	58.2	60.3	62.3	64.0	67.2
27.5°	48.6	51.3	53.9	56.5	59.0	61.2	64.6	68.6	73.0	77.6	81.9
30°	52.1	55.0	58.0	61.2	65.0	68.9	73.3	78.1	83.4	89.2	95.1
32.5°	55.5	58.9	62.3	66.2	70.4	75.0	79.9	85.6	92.1	99.0	106.4
35°	58.9	62.4	66.2	70.0	74.6	79.6	85.3	91.4	98.8	107.2	116.0
37.5°	62.0	65.8	69.6	73.7	78.0	83.3	89.4	96.4	103.9	113.6	124.2
40°	64.7	68.9	73.0	77.1	81.5	86.5	92.8	100.2	108.7	118.3	130.8
42.5°	67.4	71.9	76.2	80.5	85.0	90.0	95.7	103.5	112.5	122.9	135.9
45°	70.1	74.8	79.6	84.0	88.5	93.4	99.2	105.9	115.8	127.0	139.6
47.5°	73.3	77.8	82.7	87.7	92.2	97.1	102.4	109.4	118.6	130.2	144.0
50°	76.0	81.2	85.9	91.1	96.2	100.8	106.3	113.0	122.0	134.8	148.6
52.5°	78.6	84.3	89.6	94.5	100.0	107.1	113.6	120.6	129.5	140.6	153.8
55°	81.0	87.2	93.4	100.8	109.0	117.5	123.2	129.5	137.3	147.0	159.8
57.5°	83.5	91.0	99.0	107.7	117.3	126.9	134.0	139.0	145.3	154.7	166.8
60°	86.6	94.5	103.5	113.3	124.3	135.7	145.6	149.2	154.8	163.2	174.2
62.5°	88.7	97.4	107.2	118.0	130.1	144.0	155.7	160.8	164.9	171.8	182.1
65°	89.9	99.7	110.3	122.0	135.2	150.5	164.8	173.1	175.3	180.6	190.5
67.5°	91.1	101.3	113.0	125.7	139.9	156.3	173.7	185.9	186.2	190.4	199.6
70°	92.0	102.9	115.2	129.1	144.0	161.4	182.2	197.1	198.5	200.3	206.7
72.5°	92.9	104.4	117.0	132.2	148.1	165.5	184.2	197.8	200.2	200.7	206.4
75°	93.9	106.1	119.3	134.7	151.1	167.3	182.8	195.3	200.1	200.8	206.2
77.5°	95.2	108.2	122.1	137.4	154.3	170.4	183.3	193.6	199.7	200.8	206.2
80°	96.6	110.4	125.1	140.6	157.9	174.6	185.4	192.6	198.9	200.8	206.3
82.5°	98.3	112.9	128.6	144.4	161.9	179.8	188.8	192.1	197.9	200.7	206.7
85°	100.5	115.9	132.6	148.7	166.5	185.7	193.0	192.0	196.8	200.6	207.2
87.5°	103.2	119.4	137.2	153.8	171.6	192.2	197.8	192.3	195.6	200.7	207.9
90°	106.7	123.7	142.5	159.5	177.5	199.0	202.6	192.7	194.5	200.8	208.8
92.5°	103.2	119.4	137.2	153.8	171.6	192.2	197.8	192.3	195.6	200.7	207.9
95°	100.5	115.9	132.6	148.7	166.5	185.7	193.0	192.0	196.8	200.6	207.2
97.5°	98.3	112.9	128.6	144.4	161.9	179.8	188.8	192.1	197.9	200.7	206.7
100°	96.6	110.4	125.1	140.6	157.9	174.6	185.4	192.6	198.9	200.8	206.3
102.5°	95.2	108.2	122.1	137.4	154.3	170.4	183.3	193.6	199.7	200.8	206.2
105°	93.9	106.1	119.3	134.7	151.1	167.3	182.8	195.3	200.1	200.8	206.2
107.5°	92.9	104.4	117.0	132.2	148.1	165.5	184.2	197.8	200.2	200.7	206.4
110°	92.0	102.9	115.2	129.1	144.0	161.4	182.2	197.1	198.5	200.3	206.7



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	91.1	101.3	113.0	125.7	139.9	156.3	173.7	185.9	186.2	190.4	199.6
115°	89.9	99.7	110.3	122.0	135.2	150.5	164.8	173.1	175.3	180.6	190.5
117.5°	88.7	97.4	107.2	118.0	130.1	144.0	155.7	160.8	164.9	171.8	182.1
120°	86.6	94.5	103.5	113.3	124.3	135.7	145.6	149.2	154.8	163.2	174.2
122.5°	83.5	91.0	99.0	107.7	117.3	126.9	134.0	139.0	145.3	154.7	166.8
125°	81.0	87.2	93.4	100.8	109.0	117.5	123.2	129.5	137.3	147.0	159.8
127.5°	78.6	84.3	89.6	94.5	100.0	107.1	113.6	120.6	129.5	140.6	153.8
130°	76.0	81.2	85.9	91.1	96.2	100.8	106.3	113.0	122.0	134.8	148.6
132.5°	73.3	77.8	82.7	87.7	92.2	97.1	102.4	109.4	118.6	130.2	144.0
135°	70.1	74.8	79.6	84.0	88.5	93.4	99.2	105.9	115.8	127.0	139.6
137.5°	67.4	71.9	76.2	80.5	85.0	90.0	95.7	103.5	112.5	122.9	135.9
140°	64.7	68.9	73.0	77.1	81.5	86.5	92.8	100.2	108.7	118.3	130.8
142.5°	62.0	65.8	69.6	73.7	78.0	83.3	89.4	96.4	103.9	113.6	124.2
145°	58.9	62.4	66.2	70.0	74.6	79.6	85.3	91.4	98.8	107.2	116.0
147.5°	55.5	58.9	62.3	66.2	70.4	75.0	79.9	85.6	92.1	99.0	106.4
150°	52.1	55.0	58.0	61.2	65.0	68.9	73.3	78.1	83.4	89.2	95.1
152.5°	48.6	51.3	53.9	56.5	59.0	61.2	64.6	68.6	73.0	77.6	81.9
155°	44.9	47.4	49.8	51.9	54.0	56.0	58.2	60.3	62.3	64.0	67.2
157.5°	41.1	43.1	45.2	47.1	49.2	51.2	53.2	54.9	56.5	58.0	59.4
160°	36.9	38.8	40.8	42.6	44.5	46.2	47.7	49.2	50.6	51.9	53.2
162.5°	33.0	34.7	36.4	37.9	39.4	40.8	42.2	43.5	44.7	45.8	46.9
165°	28.8	30.2	31.6	32.9	34.2	35.4	36.6	37.7	38.7	39.6	40.4
167.5°	24.5	25.6	26.8	27.9	29.0	30.0	30.9	31.7	32.5	33.2	33.9
170°	20.1	21.0	21.9	22.7	23.5	24.3	25.0	25.7	26.3	27.1	27.7
172.5°	15.5	16.2	16.8	17.5	18.1	18.8	19.5	20.1	20.6	21.2	21.7
175°	11.3	11.8	12.3	12.8	13.3	13.7	14.2	14.6	14.9	15.3	15.7
177.5°	7.3	7.6	7.8	8.1	8.3	8.5	8.7	8.9	9.1	9.3	9.4
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
2.5°	9.6	9.7	9.8	10.0	10.1	10.1	10.2	10.3	10.3	10.4	11.4
5°	16.0	16.3	16.6	16.9	17.2	17.4	17.6	17.8	17.9	18.0	20.0
7.5°	22.2	22.6	23.1	23.6	24.0	24.4	24.8	25.1	25.4	25.7	28.6
10°	28.4	29.0	29.5	30.0	30.6	31.3	31.9	32.4	32.9	33.4	37.1
12.5°	34.6	35.3	36.0	36.6	37.2	37.9	38.8	39.6	40.3	41.0	45.6
15°	41.1	41.7	42.5	43.2	43.9	44.5	45.6	46.7	47.7	48.7	54.1
17.5°	47.7	48.5	49.1	49.9	50.6	51.3	52.2	53.7	55.1	56.4	62.5
20°	54.3	55.2	55.9	56.6	57.4	58.1	58.8	60.6	62.3	64.0	70.9
22.5°	60.7	61.9	62.7	63.4	64.1	65.0	65.7	67.3	69.6	71.7	79.2
25°	70.5	73.8	77.0	79.7	82.3	85.1	87.9	91.0	94.8	98.3	106.9
27.5°	86.3	90.6	94.9	98.9	102.5	106.3	110.6	114.8	120.0	124.9	134.9
30°	100.7	106.3	111.8	117.2	122.0	126.7	132.6	138.3	145.1	151.5	163.0
32.5°	113.7	120.8	127.7	134.5	140.9	146.9	154.1	161.7	170.0	178.1	191.2
35°	125.3	134.0	142.7	150.9	159.0	166.5	175.1	184.6	194.7	204.6	219.4
37.5°	135.2	146.1	156.5	166.6	176.8	185.6	195.5	207.3	219.3	231.2	247.7
40°	143.7	157.0	169.4	181.6	193.1	204.2	215.4	229.6	243.8	257.8	276.0
42.5°	151.1	166.4	181.4	196.3	209.3	222.4	235.4	251.6	268.1	284.4	304.4
45°	157.1	174.9	192.6	209.1	224.9	240.1	254.7	273.2	292.3	311.0	332.9
47.5°	161.7	180.7	198.7	215.1	230.7	245.8	261.2	280.6	301.9	323.7	347.2
50°	164.2	182.8	200.2	216.8	232.8	248.8	266.1	287.1	311.1	336.5	361.3
52.5°	168.4	185.8	202.7	219.0	235.0	251.9	270.8	293.6	320.2	349.2	375.4
55°	174.2	190.1	206.1	221.5	237.5	255.1	275.3	299.8	329.2	362.0	389.5
57.5°	180.5	195.3	210.4	224.6	240.4	258.3	279.7	306.0	338.0	374.7	403.6
60°	187.2	201.6	216.0	228.5	243.6	261.5	283.9	312.1	346.8	387.5	417.6
62.5°	194.5	208.7	221.3	233.1	247.1	264.9	288.1	318.2	355.5	400.2	431.7
65°	202.4	216.2	227.9	238.2	250.8	268.3	292.2	324.2	364.1	413.0	445.7
67.5°	210.9	224.1	235.1	243.9	254.9	271.8	296.2	330.2	372.7	425.7	459.6
70°	216.0	226.8	236.4	243.6	253.2	269.3	293.4	327.6	370.3	424.6	463.9
72.5°	215.0	224.6	234.0	241.1	250.2	266.1	290.3	325.0	367.9	423.5	468.3
75°	214.6	222.9	231.8	238.6	247.3	263.1	287.3	322.5	365.6	422.4	474.4
77.5°	214.5	221.5	229.8	236.3	244.6	260.2	284.5	320.1	363.4	421.3	478.4
80°	214.7	220.5	227.9	234.0	242.0	257.5	281.9	318.0	361.3	420.3	482.4
82.5°	215.2	219.8	226.1	231.8	239.5	254.9	279.5	316.0	359.3	419.2	486.4
85°	216.0	219.3	224.5	229.8	237.2	252.5	277.2	314.1	357.4	418.1	490.3
87.5°	216.8	218.9	222.9	227.8	235.0	250.3	275.2	312.5	355.7	417.0	494.3
90°	217.8	218.7	221.4	225.9	233.0	248.3	273.4	311.0	354.0	415.9	498.3
92.5°	216.8	218.9	222.9	227.8	235.0	250.3	275.2	312.5	355.7	417.0	494.3
95°	216.0	219.3	224.5	229.8	237.2	252.5	277.2	314.1	357.4	418.1	490.3
97.5°	215.2	219.8	226.1	231.8	239.5	254.9	279.5	316.0	359.3	419.2	486.4
100°	214.7	220.5	227.9	234.0	242.0	257.5	281.9	318.0	361.3	420.3	482.4
102.5°	214.5	221.5	229.8	236.3	244.6	260.2	284.5	320.1	363.4	421.3	478.4
105°	214.6	222.9	231.8	238.6	247.3	263.1	287.3	322.5	365.6	422.4	474.4
107.5°	215.0	224.6	234.0	241.1	250.2	266.1	290.3	325.0	367.9	423.5	468.3
110°	216.0	226.8	236.4	243.6	253.2	269.3	293.4	327.6	370.3	424.6	463.9



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-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°	210.9	224.1	235.1	243.9	254.9	271.8	296.2	330.2	372.7	425.7	459.6
115°	202.4	216.2	227.9	238.2	250.8	268.3	292.2	324.2	364.1	413.0	445.7
117.5°	194.5	208.7	221.3	233.1	247.1	264.9	288.1	318.2	355.5	400.2	431.7
120°	187.2	201.6	216.0	228.5	243.6	261.5	283.9	312.1	346.8	387.5	417.6
122.5°	180.5	195.3	210.4	224.6	240.4	258.3	279.7	306.0	338.0	374.7	403.6
125°	174.2	190.1	206.1	221.5	237.5	255.1	275.3	299.8	329.2	362.0	389.5
127.5°	168.4	185.8	202.7	219.0	235.0	251.9	270.8	293.6	320.2	349.2	375.4
130°	164.2	182.8	200.2	216.8	232.8	248.8	266.1	287.1	311.1	336.5	361.3
132.5°	161.7	180.7	198.7	215.1	230.7	245.8	261.2	280.6	301.9	323.7	347.2
135°	157.1	174.9	192.6	209.1	224.9	240.1	254.7	273.2	292.3	311.0	332.9
137.5°	151.1	166.4	181.4	196.3	209.3	222.4	235.4	251.6	268.1	284.4	304.4
140°	143.7	157.0	169.4	181.6	193.1	204.2	215.4	229.6	243.8	257.8	276.0
142.5°	135.2	146.1	156.5	166.6	176.8	185.6	195.5	207.3	219.3	231.2	247.7
145°	125.3	134.0	142.7	150.9	159.0	166.5	175.1	184.6	194.7	204.6	219.4
147.5°	113.7	120.8	127.7	134.5	140.9	146.9	154.1	161.7	170.0	178.1	191.2
150°	100.7	106.3	111.8	117.2	122.0	126.7	132.6	138.3	145.1	151.5	163.0
152.5°	86.3	90.6	94.9	98.9	102.5	106.3	110.6	114.8	120.0	124.9	134.9
155°	70.5	73.8	77.0	79.7	82.3	85.1	87.9	91.0	94.8	98.3	106.9
157.5°	60.7	61.9	62.7	63.4	64.1	65.0	65.7	67.3	69.6	71.7	79.2
160°	54.3	55.2	55.9	56.6	57.4	58.1	58.8	60.6	62.3	64.0	70.9
162.5°	47.7	48.5	49.1	49.9	50.6	51.3	52.2	53.7	55.1	56.4	62.5
165°	41.1	41.7	42.5	43.2	43.9	44.5	45.6	46.7	47.7	48.7	54.1
167.5°	34.6	35.3	36.0	36.6	37.2	37.9	38.8	39.6	40.3	41.0	45.6
170°	28.4	29.0	29.5	30.0	30.6	31.3	31.9	32.4	32.9	33.4	37.1
172.5°	22.2	22.6	23.1	23.6	24.0	24.4	24.8	25.1	25.4	25.7	28.6
175°	16.0	16.3	16.6	16.9	17.2	17.4	17.6	17.8	17.9	18.0	20.0
177.5°	9.6	9.7	9.8	10.0	10.1	10.1	10.2	10.3	10.3	10.4	11.4
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
2.5°	12.3	13.3	14.2	15.1	16.0	16.9	17.7	18.6	19.3	20.1	20.8
5°	21.9	23.8	25.6	27.4	29.2	30.9	32.5	34.1	35.7	37.1	38.6
7.5°	31.4	34.1	36.8	39.5	42.1	44.6	47.2	50.3	53.4	56.3	59.1
10°	40.8	44.4	47.9	51.4	55.0	59.5	63.8	68.0	72.1	76.1	80.1
12.5°	50.1	54.5	58.8	63.7	69.5	75.1	80.6	85.9	91.2	96.5	101.6
15°	59.3	64.5	69.9	77.0	84.0	90.9	97.5	103.8	109.9	116.0	122.6
17.5°	68.5	74.4	82.0	90.4	98.7	106.5	113.5	120.5	127.3	134.0	140.4
20°	77.6	84.4	94.2	103.9	113.2	120.9	128.5	136.1	143.7	151.2	158.4
22.5°	86.5	95.3	106.5	117.4	126.3	134.4	142.5	151.1	159.6	167.8	175.6
25°	115.1	125.2	136.2	146.0	153.0	159.4	166.0	172.4	178.0	182.8	191.0
27.5°	144.5	156.4	168.3	177.6	185.1	192.1	198.9	205.0	209.8	214.3	218.5
30°	174.0	187.4	200.5	208.9	217.5	224.0	230.6	235.6	240.1	244.4	248.5
32.5°	204.0	218.3	231.0	240.1	248.1	254.9	260.5	264.9	269.1	273.2	279.1
35°	233.9	249.1	261.4	271.0	278.4	285.3	289.0	292.9	296.8	301.7	309.7
37.5°	263.8	279.7	291.7	301.6	307.9	313.0	316.5	319.9	323.8	330.7	339.2
40°	293.5	310.2	321.9	330.9	336.6	340.2	342.9	345.7	350.7	357.9	369.8
42.5°	323.1	340.4	351.8	359.7	364.5	366.4	368.4	370.5	376.9	386.1	398.8
45°	352.7	369.8	381.6	387.8	391.0	391.8	393.0	396.0	401.6	413.7	428.0
47.5°	370.5	391.8	408.2	417.3	422.6	424.7	424.4	423.7	427.6	440.7	456.5
50°	388.4	413.9	434.9	449.1	460.6	470.3	478.5	487.9	496.3	501.8	504.7
52.5°	406.6	436.8	462.5	482.8	501.6	520.1	539.2	558.8	576.3	586.1	587.6
55°	425.3	460.5	491.5	518.5	545.2	573.7	605.1	635.5	660.1	672.0	663.2
57.5°	444.3	484.8	521.6	556.2	591.7	630.8	675.6	716.2	744.3	752.2	732.0
60°	463.6	509.7	552.9	595.7	641.6	691.7	750.5	800.7	829.7	823.5	797.5
62.5°	483.1	535.2	585.1	636.8	693.7	757.4	828.5	888.4	916.1	889.8	859.2
65°	502.8	561.0	618.1	679.2	747.7	825.8	908.4	973.9	1002.6	951.6	917.2
67.5°	522.7	587.2	651.7	722.7	803.4	896.5	990.1	1057.8	1071.1	1011.7	972.1
70°	526.8	593.1	661.6	738.4	826.9	931.4	1035.2	1110.9	1120.5	1068.3	1026.2
72.5°	530.0	597.0	667.8	746.6	836.7	942.1	1041.4	1112.8	1118.8	1083.6	1049.9
75°	532.9	600.6	673.5	754.0	845.1	950.7	1044.9	1114.9	1123.6	1102.5	1070.0
77.5°	535.3	603.9	678.8	760.6	852.3	957.2	1046.0	1116.9	1133.6	1124.5	1090.1
80°	539.1	606.7	683.6	766.4	858.2	961.8	1045.0	1118.6	1147.9	1148.9	1110.5
82.5°	540.1	610.9	690.6	771.4	862.9	964.6	1041.9	1119.7	1165.0	1175.2	1131.3
85°	541.1	611.9	692.9	777.2	868.6	968.5	1039.4	1123.0	1183.9	1202.6	1152.9
87.5°	542.1	612.9	695.1	779.4	869.5	966.0	1031.5	1119.8	1204.0	1230.9	1174.7
90°	543.1	613.9	697.3	781.5	870.3	963.5	1023.5	1116.7	1221.6	1258.4	1199.2
92.5°	542.1	612.9	695.1	779.4	869.5	966.0	1031.5	1119.8	1204.0	1230.9	1174.7
95°	541.1	611.9	692.9	777.2	868.6	968.5	1039.4	1123.0	1183.9	1202.6	1152.9
97.5°	540.1	610.9	690.6	771.4	862.9	964.6	1041.9	1119.7	1165.0	1175.2	1131.3
100°	539.1	606.7	683.6	766.4	858.2	961.8	1045.0	1118.6	1147.9	1148.9	1110.5
102.5°	535.3	603.9	678.8	760.6	852.3	957.2	1046.0	1116.9	1133.6	1124.5	1090.1
105°	532.9	600.6	673.5	754.0	845.1	950.7	1044.9	1114.9	1123.6	1102.5	1070.0
107.5°	530.0	597.0	667.8	746.6	836.7	942.1	1041.4	1112.8	1118.8	1083.6	1049.9
110°	526.8	593.1	661.6	738.4	826.9	931.4	1035.2	1110.9	1120.5	1068.3	1026.2



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	522.7	587.2	651.7	722.7	803.4	896.5	990.1	1057.8	1071.1	1011.7	972.1
115°	502.8	561.0	618.1	679.2	747.7	825.8	908.4	973.9	1002.6	951.6	917.2
117.5°	483.1	535.2	585.1	636.8	693.7	757.4	828.5	888.4	916.1	889.8	859.2
120°	463.6	509.7	552.9	595.7	641.6	691.7	750.5	800.7	829.7	823.5	797.5
122.5°	444.3	484.8	521.6	556.2	591.7	630.8	675.6	716.2	744.3	752.2	732.0
125°	425.3	460.5	491.5	518.5	545.2	573.7	605.1	635.5	660.1	672.0	663.2
127.5°	406.6	436.8	462.5	482.8	501.6	520.1	539.2	558.8	576.3	586.1	587.6
130°	388.4	413.9	434.9	449.1	460.6	470.3	478.5	487.9	496.3	501.8	504.7
132.5°	370.5	391.8	408.2	417.3	422.6	424.7	424.4	423.7	427.6	440.7	456.5
135°	352.7	369.8	381.6	387.8	391.0	391.8	393.0	396.0	401.6	413.7	428.0
137.5°	323.1	340.4	351.8	359.7	364.5	366.4	368.4	370.5	376.9	386.1	398.8
140°	293.5	310.2	321.9	330.9	336.6	340.2	342.9	345.7	350.7	357.9	369.8
142.5°	263.8	279.7	291.7	301.6	307.9	313.0	316.5	319.9	323.8	330.7	339.2
145°	233.9	249.1	261.4	271.0	278.4	285.3	289.0	292.9	296.8	301.7	309.7
147.5°	204.0	218.3	231.0	240.1	248.1	254.9	260.5	264.9	269.1	273.2	279.1
150°	174.0	187.4	200.5	208.9	217.5	224.0	230.6	235.6	240.1	244.4	248.5
152.5°	144.5	156.4	168.3	177.6	185.1	192.1	198.9	205.0	209.8	214.3	218.5
155°	115.1	125.2	136.2	146.0	153.0	159.4	166.0	172.4	178.0	182.8	191.0
157.5°	86.5	95.3	106.5	117.4	126.3	134.4	142.5	151.1	159.6	167.8	175.6
160°	77.6	84.4	94.2	103.9	113.2	120.9	128.5	136.1	143.7	151.2	158.4
162.5°	68.5	74.4	82.0	90.4	98.7	106.5	113.5	120.5	127.3	134.0	140.4
165°	59.3	64.5	69.9	77.0	84.0	90.9	97.5	103.8	109.9	116.0	122.6
167.5°	50.1	54.5	58.8	63.7	69.5	75.1	80.6	85.9	91.2	96.5	101.6
170°	40.8	44.4	47.9	51.4	55.0	59.5	63.8	68.0	72.1	76.1	80.1
172.5°	31.4	34.1	36.8	39.5	42.1	44.6	47.2	50.3	53.4	56.3	59.1
175°	21.9	23.8	25.6	27.4	29.2	30.9	32.5	34.1	35.7	37.1	38.6
177.5°	12.3	13.3	14.2	15.1	16.0	16.9	17.7	18.6	19.3	20.1	20.8
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
2.5°	21.5	22.2	22.8	23.4	23.9	24.4	24.9	25.3	25.7	26.0	26.3
5°	40.4	42.1	43.7	45.2	46.6	48.0	49.2	50.3	51.4	52.3	53.1
7.5°	61.8	64.4	66.8	69.1	71.4	73.9	76.4	78.6	80.8	82.7	84.5
10°	84.0	88.0	91.8	95.5	99.1	102.5	105.7	108.5	110.8	113.0	114.9
12.5°	106.6	111.4	116.1	120.0	123.8	127.4	130.8	133.9	136.9	140.3	143.8
15°	127.3	132.5	137.4	142.2	146.9	152.3	157.5	162.6	167.5	172.2	176.4
17.5°	146.6	153.3	159.1	165.5	171.9	178.2	183.9	189.0	194.0	198.8	203.3
20°	165.7	173.0	180.3	187.3	193.7	200.0	206.2	212.3	218.4	224.0	229.1
22.5°	183.5	191.2	198.6	205.9	213.2	221.4	229.3	236.7	243.2	248.1	252.1
25°	199.1	207.1	216.0	225.3	235.2	244.7	253.6	261.3	267.7	273.5	278.9
27.5°	222.5	227.6	235.3	247.0	259.5	271.1	282.5	290.9	299.4	306.5	312.3
30°	254.6	262.4	270.6	281.0	291.1	302.5	315.0	325.9	334.8	342.3	349.2
32.5°	287.1	296.4	307.7	319.0	331.1	342.6	352.8	362.3	372.2	381.5	389.9
35°	319.1	331.1	343.6	356.9	369.7	381.5	392.5	402.8	412.3	423.2	435.9
37.5°	351.6	364.7	379.2	393.4	407.1	419.9	431.8	443.7	456.7	470.4	485.5
40°	382.8	398.2	413.7	429.3	443.8	457.2	472.0	487.0	504.4	523.6	545.1
42.5°	414.4	430.7	448.1	464.2	479.2	496.2	513.1	533.9	556.9	584.7	614.8
45°	444.5	463.4	481.4	497.8	516.2	535.1	557.3	582.0	615.0	650.4	690.6
47.5°	475.3	495.6	513.2	532.3	552.9	575.6	602.0	636.8	676.7	720.4	776.5
50°	508.8	525.7	544.7	566.8	589.5	615.2	651.0	693.1	741.8	805.0	871.7
52.5°	585.4	585.3	590.8	600.1	624.8	658.9	700.8	751.0	819.3	893.2	972.1
55°	655.4	652.3	656.1	660.3	676.7	703.5	749.8	820.3	898.6	983.0	1084.2
57.5°	720.2	714.7	712.9	716.6	736.0	769.5	821.4	891.0	978.1	1081.4	1193.7
60°	780.7	771.6	764.6	772.2	794.9	832.6	896.9	974.7	1067.1	1173.2	1293.6
62.5°	838.4	823.4	812.3	822.0	849.7	899.7	968.5	1052.1	1157.0	1270.4	1400.3
65°	892.0	870.4	861.0	871.9	902.0	957.9	1033.2	1129.7	1241.6	1368.3	1520.8
67.5°	942.1	913.2	905.2	918.9	955.4	1014.4	1094.1	1197.3	1319.3	1473.5	1644.5
70°	988.8	953.6	945.2	961.5	1001.5	1064.4	1152.4	1264.1	1402.7	1570.4	1753.7
72.5°	1015.4	989.2	985.3	1002.9	1041.9	1109.9	1201.4	1323.0	1483.9	1652.5	1821.1
75°	1036.3	1017.7	1020.2	1043.0	1086.6	1154.4	1249.9	1378.7	1555.2	1714.0	1880.3
77.5°	1059.2	1047.0	1054.5	1080.8	1128.3	1200.5	1300.9	1439.4	1605.7	1762.9	1925.0
80°	1083.8	1076.9	1088.1	1116.5	1166.4	1240.5	1342.9	1485.9	1646.0	1809.2	1975.3
82.5°	1109.9	1107.4	1121.0	1150.2	1201.2	1275.0	1376.8	1519.4	1677.4	1846.0	2015.6
85°	1137.2	1138.2	1153.3	1182.2	1232.9	1304.5	1403.3	1541.2	1699.6	1872.6	2045.0
87.5°	1165.1	1169.2	1185.3	1213.4	1263.0	1331.3	1425.8	1556.5	1717.1	1894.1	2069.1
90°	1193.8	1200.1	1216.2	1242.2	1288.8	1351.6	1438.5	1556.8	1716.3	1893.8	2069.5
92.5°	1165.1	1169.2	1185.3	1213.4	1263.0	1331.3	1425.8	1556.5	1717.1	1894.1	2069.1
95°	1137.2	1138.2	1153.3	1182.2	1232.9	1304.5	1403.3	1541.2	1699.6	1872.6	2045.0
97.5°	1109.9	1107.4	1121.0	1150.2	1201.2	1275.0	1376.8	1519.4	1677.4	1846.0	2015.6
100°	1083.8	1076.9	1088.1	1116.5	1166.4	1240.5	1342.9	1485.9	1646.0	1809.2	1975.3
102.5°	1059.2	1047.0	1054.5	1080.8	1128.3	1200.5	1300.9	1439.4	1605.7	1762.9	1925.0
105°	1036.3	1017.7	1020.2	1043.0	1086.6	1154.4	1249.9	1378.7	1555.2	1714.0	1880.3
107.5°	1015.4	989.2	985.3	1002.9	1041.9	1109.9	1201.4	1323.0	1483.9	1652.5	1821.1
110°	988.8	953.6	945.2	961.5	1001.5	1064.4	1152.4	1264.1	1402.7	1570.4	1753.7



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-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°	942.1	913.2	905.2	918.9	955.4	1014.4	1094.1	1197.3	1319.3	1473.5	1644.5
115°	892.0	870.4	861.0	871.9	902.0	957.9	1033.2	1129.7	1241.6	1368.3	1520.8
117.5°	838.4	823.4	812.3	822.0	849.7	899.7	968.5	1052.1	1157.0	1270.4	1400.3
120°	780.7	771.6	764.6	772.2	794.9	832.6	896.9	974.7	1067.1	1173.2	1293.6
122.5°	720.2	714.7	712.9	716.6	736.0	769.5	821.4	891.0	978.1	1081.4	1193.7
125°	655.4	652.3	656.1	660.3	676.7	703.5	749.8	820.3	898.6	983.0	1084.2
127.5°	585.4	585.3	590.8	600.1	624.8	658.9	700.8	751.0	819.3	893.2	972.1
130°	508.8	525.7	544.7	566.8	589.5	615.2	651.0	693.1	741.8	805.0	871.7
132.5°	475.3	495.6	513.2	532.3	552.9	575.6	602.0	636.8	676.7	720.4	776.5
135°	444.5	463.4	481.4	497.8	516.2	535.1	557.3	582.0	615.0	650.4	690.6
137.5°	414.4	430.7	448.1	464.2	479.2	496.2	513.1	533.9	556.9	584.7	614.8
140°	382.8	398.2	413.7	429.3	443.8	457.2	472.0	487.0	504.4	523.6	545.1
142.5°	351.6	364.7	379.2	393.4	407.1	419.9	431.8	443.7	456.7	470.4	485.5
145°	319.1	331.1	343.6	356.9	369.7	381.5	392.5	402.8	412.3	423.2	435.9
147.5°	287.1	296.4	307.7	319.0	331.1	342.6	352.8	362.3	372.2	381.5	389.9
150°	254.6	262.4	270.6	281.0	291.1	302.5	315.0	325.9	334.8	342.3	349.2
152.5°	222.5	227.6	235.3	247.0	259.5	271.1	282.5	290.9	299.4	306.5	312.3
155°	199.1	207.1	216.0	225.3	235.2	244.7	253.6	261.3	267.7	273.5	278.9
157.5°	183.5	191.2	198.6	205.9	213.2	221.4	229.3	236.7	243.2	248.1	252.1
160°	165.7	173.0	180.3	187.3	193.7	200.0	206.2	212.3	218.4	224.0	229.1
162.5°	146.6	153.3	159.1	165.5	171.9	178.2	183.9	189.0	194.0	198.8	203.3
165°	127.3	132.5	137.4	142.2	146.9	152.3	157.5	162.6	167.5	172.2	176.4
167.5°	106.6	111.4	116.1	120.0	123.8	127.4	130.8	133.9	136.9	140.3	143.8
170°	84.0	88.0	91.8	95.5	99.1	102.5	105.7	108.5	110.8	113.0	114.9
172.5°	61.8	64.4	66.8	69.1	71.4	73.9	76.4	78.6	80.8	82.7	84.5
175°	40.4	42.1	43.7	45.2	46.6	48.0	49.2	50.3	51.4	52.3	53.1
177.5°	21.5	22.2	22.8	23.4	23.9	24.4	24.9	25.3	25.7	26.0	26.3
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
2.5°	26.5	26.7	26.9	27.0	27.1	27.1	27.9	27.6	27.3	26.9	26.6
5°	53.8	54.4	54.9	55.3	55.6	55.8	55.8	55.8	56.4	55.8	55.1
7.5°	86.2	87.7	89.0	90.1	91.0	91.8	92.3	92.7	92.8	93.8	93.0
10°	116.7	118.2	119.6	120.7	121.6	122.3	122.8	123.1	123.1	123.9	123.0
12.5°	147.2	150.2	153.1	155.6	157.9	159.9	161.5	162.8	163.8	164.4	165.5
15°	180.0	183.2	186.3	189.0	191.4	193.6	195.4	196.9	198.1	198.9	200.1
17.5°	207.6	211.3	214.6	217.5	220.0	222.0	223.6	224.8	225.7	226.1	226.8
20°	233.7	237.2	239.0	240.0	240.5	240.3	239.6	238.4	236.8	234.9	232.8
22.5°	255.0	257.0	259.0	260.6	261.3	261.2	260.4	258.9	256.7	253.9	251.3
25°	283.3	286.4	288.5	290.0	290.6	290.2	289.0	287.0	284.2	280.6	276.4
27.5°	316.9	320.3	322.6	324.9	327.4	328.9	329.5	329.1	327.7	325.3	321.9
30°	355.0	360.8	365.8	369.8	376.9	383.2	388.5	392.7	395.6	397.1	397.1
32.5°	398.6	409.3	419.7	429.6	440.3	450.7	459.6	467.0	472.7	476.6	478.5
35°	448.7	464.4	480.4	495.4	510.4	528.5	544.7	558.9	570.6	579.9	586.2
37.5°	505.2	525.9	551.6	576.1	599.2	623.4	645.8	665.4	682.1	695.6	705.6
40°	571.9	601.0	633.8	666.4	697.1	730.1	764.8	796.0	823.3	846.2	864.2
42.5°	649.4	684.4	724.6	772.7	818.6	862.7	906.1	944.8	978.3	1006.3	1028.5
45°	733.5	785.9	835.5	893.6	950.6	1009.4	1062.0	1113.9	1157.2	1191.8	1217.8
47.5°	835.5	898.4	961.0	1030.1	1111.1	1183.9	1251.9	1313.7	1365.8	1408.0	1439.9
50°	944.2	1020.5	1112.5	1202.7	1297.4	1383.4	1465.5	1549.7	1622.7	1683.3	1730.5
52.5°	1065.0	1165.6	1271.8	1379.0	1499.3	1618.6	1723.2	1808.6	1888.7	1961.2	2023.5
55°	1192.2	1307.5	1432.5	1574.4	1710.8	1828.0	1933.8	2029.8	2116.6	2194.5	2261.7
57.5°	1313.2	1452.8	1605.3	1753.5	1897.3	2006.0	2113.8	2212.1	2297.7	2377.4	2449.3
60°	1437.7	1597.8	1766.2	1915.2	2046.6	2157.3	2252.5	2346.9	2434.6	2514.3	2585.4
62.5°	1556.7	1745.7	1907.9	2053.5	2164.7	2271.1	2366.6	2456.7	2547.6	2630.3	2703.2
65°	1700.4	1869.2	2024.0	2144.5	2259.2	2367.2	2467.1	2561.7	2652.2	2735.9	2808.3
67.5°	1820.2	1979.6	2100.5	2221.9	2340.2	2450.2	2556.4	2657.1	2750.9	2835.4	2907.1
70°	1911.7	2053.9	2178.6	2293.5	2406.0	2522.4	2635.0	2740.5	2841.3	2926.0	2990.0
72.5°	1981.3	2122.0	2246.6	2357.5	2469.2	2582.3	2697.6	2806.7	2915.6	3017.2	3074.8
75°	2037.9	2175.7	2295.8	2410.2	2527.8	2637.3	2741.2	2857.9	2977.3	3084.4	3145.4
77.5°	2085.1	2220.0	2331.0	2452.8	2571.6	2682.7	2788.4	2896.0	3016.0	3120.2	3193.1
80°	2123.1	2245.2	2357.3	2482.6	2603.7	2719.4	2829.9	2941.4	3044.5	3147.7	3219.8
82.5°	2150.7	2267.6	2386.6	2507.2	2623.7	2738.1	2859.4	2979.4	3088.6	3185.7	3236.4
85°	2164.8	2282.4	2404.6	2523.5	2644.9	2763.4	2882.2	3001.6	3120.4	3204.4	3223.8
87.5°	2170.9	2288.3	2410.5	2526.1	2655.3	2777.5	2890.5	3009.8	3131.4	3225.3	3259.2
90°	2160.0	2284.6	2404.7	2515.8	2652.0	2775.7	2877.0	2994.4	3110.9	3231.9	3275.0
92.5°	2170.9	2288.3	2410.5	2526.1	2655.3	2777.5	2890.5	3009.8	3131.4	3225.3	3259.2
95°	2164.8	2282.4	2404.6	2523.5	2644.9	2763.4	2882.2	3001.6	3120.4	3204.4	3223.8
97.5°	2150.7	2267.6	2386.6	2507.2	2623.7	2738.1	2859.4	2979.4	3088.6	3185.7	3236.4
100°	2123.1	2245.2	2357.3	2482.6	2603.7	2719.4	2829.9	2941.4	3044.5	3147.7	3219.8
102.5°	2085.1	2220.0	2331.0	2452.8	2571.6	2682.7	2788.4	2896.0	3016.0	3120.2	3193.1
105°	2037.9	2175.7	2295.8	2410.2	2527.8	2637.3	2741.2	2857.9	2977.3	3084.4	3145.4
107.5°	1981.3	2122.0	2246.6	2357.5	2469.2	2582.3	2697.6	2806.7	2915.6	3017.2	3074.8
110°	1911.7	2053.9	2178.6	2293.5	2406.0	2522.4	2635.0	2740.5	2841.3	2926.0	2990.0



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	1820.2	1979.6	2100.5	2221.9	2340.2	2450.2	2556.4	2657.1	2750.9	2835.4	2907.1
115°	1700.4	1869.2	2024.0	2144.5	2259.2	2367.2	2467.1	2561.7	2652.2	2735.9	2808.2
117.5°	1556.7	1745.7	1907.9	2053.5	2164.7	2271.1	2366.6	2456.7	2547.6	2630.3	2703.2
120°	1437.7	1597.8	1766.2	1915.2	2046.6	2157.3	2252.5	2346.9	2434.6	2514.3	2585.4
122.5°	1313.2	1452.8	1605.3	1753.5	1897.3	2006.0	2113.8	2212.1	2297.7	2377.4	2449.3
125°	1192.2	1307.5	1432.5	1574.4	1710.8	1828.0	1933.8	2029.8	2116.6	2194.5	2261.7
127.5°	1065.0	1165.6	1271.8	1379.0	1499.3	1618.6	1723.2	1808.6	1888.7	1961.2	2023.5
130°	944.2	1020.5	1112.5	1202.7	1297.4	1383.4	1465.5	1549.7	1622.7	1683.3	1730.5
132.5°	835.5	898.4	961.0	1030.1	1111.1	1183.9	1251.9	1313.7	1365.8	1408.0	1439.9
135°	733.5	785.9	835.5	893.6	950.6	1009.4	1062.0	1113.9	1157.2	1191.8	1217.8
137.5°	649.4	684.4	724.6	772.7	818.6	862.7	906.1	944.8	978.3	1006.3	1028.5
140°	571.9	601.0	633.8	666.4	697.1	730.1	764.8	796.0	823.3	846.2	864.2
142.5°	505.2	525.9	551.6	576.1	599.2	623.4	645.8	665.4	682.1	695.6	705.6
145°	448.7	464.4	480.4	495.4	510.4	528.5	544.7	558.9	570.6	579.9	586.2
147.5°	398.6	409.3	419.7	429.6	440.3	450.7	459.6	467.0	472.7	476.6	478.5
150°	355.0	360.8	365.8	369.8	376.9	383.2	388.5	392.7	395.6	397.1	397.1
152.5°	316.9	320.3	322.6	324.9	327.4	328.9	329.5	329.1	327.7	325.3	321.9
155°	283.3	286.4	288.5	290.0	290.6	290.2	289.0	287.0	284.2	280.6	276.4
157.5°	255.0	257.0	259.0	260.6	261.3	261.2	260.4	258.9	256.7	253.9	251.3
160°	233.7	237.2	239.0	240.0	240.5	240.3	239.6	238.4	236.8	234.9	232.8
162.5°	207.6	211.3	214.6	217.5	220.0	222.0	223.6	224.8	225.7	226.1	226.8
165°	180.0	183.2	186.3	189.0	191.4	193.6	195.4	196.9	198.1	198.9	200.1
167.5°	147.2	150.2	153.1	155.6	157.9	159.9	161.5	162.8	163.8	164.4	165.5
170°	116.7	118.2	119.6	120.7	121.6	122.3	122.8	123.1	123.1	123.9	123.0
172.5°	86.2	87.7	89.0	90.1	91.0	91.8	92.3	92.7	92.8	93.8	93.0
175°	53.8	54.4	54.9	55.3	55.6	55.8	55.8	55.8	56.4	55.8	55.1
177.5°	26.5	26.7	26.9	27.0	27.1	27.1	27.9	27.6	27.3	26.9	26.6
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	2.7	2.7
2.5°	26.3	26.0
5°	54.5	53.8
7.5°	92.2	91.4
10°	122.0	121.0
12.5°	164.8	164.0
15°	199.6	199.0
17.5°	225.9	225.0
20°	230.3	227.7
22.5°	247.1	242.9
25°	271.8	266.2
27.5°	317.9	311.9
30°	396.3	391.7
32.5°	479.5	475.9
35°	591.3	589.7
37.5°	714.0	714.3
40°	879.9	883.7
42.5°	1047.9	1054.0
45°	1239.3	1244.0
47.5°	1466.6	1471.7
50°	1771.3	1780.9
52.5°	2081.6	2106.2
55°	2324.1	2357.2
57.5°	2518.1	2561.5
60°	2652.2	2698.7
62.5°	2766.1	2818.8
65°	2869.4	2920.0
67.5°	2966.3	3014.1
70°	3039.3	3076.9
72.5°	3109.8	3128.9
75°	3167.2	3176.4
77.5°	3207.0	3212.2
80°	3239.5	3231.9
82.5°	3266.1	3262.4
85°	3275.0	3315.3
87.5°	3252.6	3307.2
90°	3259.7	3257.0
92.5°	3252.6	3307.2
95°	3275.0	3315.3
97.5°	3266.1	3262.4
100°	3239.5	3231.9
102.5°	3207.0	3212.2
105°	3167.2	3176.4
107.5°	3109.8	3128.9
110°	3039.3	3076.9



TEST NUMBER: P232011

CATALOG NUMBER: FVS4WM-4-LD4-50-2STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	2966.3	3014.1
115°	2869.4	2920.0
117.5°	2766.1	2818.8
120°	2652.2	2698.7
122.5°	2518.1	2561.5
125°	2324.1	2357.2
127.5°	2081.6	2106.2
130°	1771.3	1780.9
132.5°	1466.6	1471.7
135°	1239.3	1244.0
137.5°	1047.9	1054.0
140°	879.9	883.7
142.5°	714.0	714.3
145°	591.3	589.7
147.5°	479.5	475.9
150°	396.3	391.7
152.5°	317.9	311.9
155°	271.8	266.2
157.5°	247.1	242.9
160°	230.3	227.7
162.5°	225.9	225.0
165°	199.6	199.0
167.5°	164.8	164.0
170°	122.0	121.0
172.5°	92.2	91.4
175°	54.5	53.8
177.5°	26.3	26.0
180°	2.0	2.0

(END OF REPORT)