

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: P232047

Luminaire Tested: **FVS4WM-3-LD4-50-1STD-PA187-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-25)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4WM-3-LD4-50-1STD-PA187-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
3FT LENGTH, 1-MODULE LED WITH PA187 LENS
Light Source: (84) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

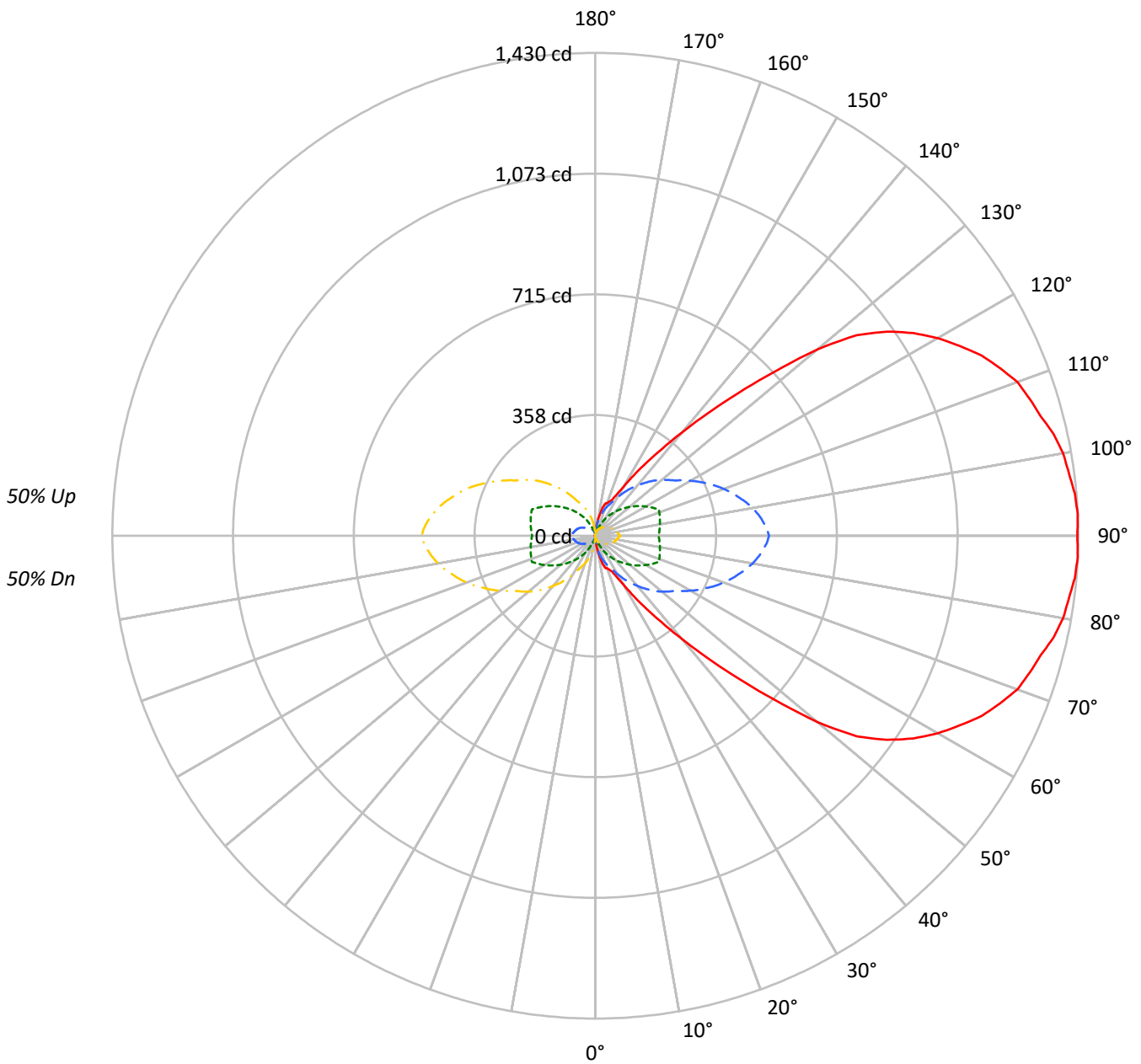
Lumens per Lamp: N/A
Luminaire Lumens: 3283.5 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 2.92' x L: 0.19' x H: 0.31')
CIE Type: General Diffuse

Input Watts (W): 28.5
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	83	77	71	83	76	70	65	63	58	54	50	47	43	39	36	33	28
2	80	69	60	52	72	63	55	48	51	45	39	40	35	31	30	26	23	18
3	71	58	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	29	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	11	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°	0	0	0	0
5°	390	121	0	121
10°	809	243	0	243
15°	1248	370	0	370
20°	1343	502	0	502
25°	1436	774	0	774
30°	1937	1205	0	1205
35°	2916	1681	0	1681
40°	4279	2218	0	2218
45°	6225	2841	0	2841
50°	8803	3614	0	3614
55°	10697	4556	0	4556
60°	11853	5751	0	5751
65°	12854	7321	0	7321
70°	13721	8959	9	8959
75°	14383	10751	9	10751
80°	15249	13699	0	13699
85°	16051	19359	0	19359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.0
10°-20°	10.5	0.3
20°-30°	28.1	0.9
30°-40°	64.7	2.0
40°-50°	128.3	3.9
50°-60°	229.1	7.0
60°-70°	333.5	10.2
70°-80°	404.8	12.3
80°-90°	441.4	13.4
90°-100°	441.4	13.4
100°-110°	404.8	12.3
110°-120°	333.5	10.2
120°-130°	229.1	7.0
130°-140°	128.3	3.9
140°-150°	64.7	2.0
150°-160°	28.1	0.9
160°-170°	10.5	0.3
170°-180°	1.4	0.0
0°-30°	40.0	1.2
0°-40°	104.6	3.2
0°-60°	462.0	14.1
0°-90°	1641.7	50.0
90°-120°	1179.7	35.9
90°-150°	1601.8	48.8
90°-180°	1642.0	50.0
0°-180°	3283.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	0	0	0	0	0	
5°	23	6	0	6	23	3
15°	89	19	0	19	89	25
25°	118	37	0	37	118	58
35°	263	75	0	75	263	173
45°	596	113	0	113	596	475
55°	1054	153	0	153	1054	936
65°	1262	193	0	193	1262	1248
75°	1366	198	1	198	1366	1448
85°	1425	191	0	191	1425	1159
90°	1427	187	0	187	1427	783
95°	1425	191	0	191	1425	1159
105°	1366	198	1	198	1366	1448
115°	1262	193	0	193	1262	1248
125°	1054	153	0	153	1054	936
135°	596	113	0	113	596	475
145°	263	75	0	75	263	173
155°	118	37	0	37	118	58
165°	89	19	0	19	89	25
175°	23	6	0	6	23	3
180°	0	0	0	0	0	



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CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	9.0	9.1	9.3	9.4	9.5	9.7	9.8	9.5	9.5	9.5	9.4
5°	22.6	22.9	23.1	23.4	23.6	23.2	23.2	23.1	23.0	22.8	22.5
7.5°	38.0	38.3	38.7	39.0	38.6	38.6	38.4	38.2	37.9	37.5	37.0
10°	52.4	52.8	53.2	53.6	53.1	53.0	52.8	52.5	52.0	51.5	50.9
12.5°	68.7	69.0	69.4	69.0	68.8	68.5	68.0	67.4	66.7	65.8	64.9
15°	88.6	88.7	88.8	87.9	87.3	86.4	85.4	84.3	82.9	81.5	79.9
17.5°	100.3	100.5	100.7	100.1	99.7	99.2	98.5	97.6	96.5	95.2	93.8
20°	103.0	103.9	104.8	105.4	105.9	106.3	106.5	106.4	106.1	105.4	104.5
22.5°	109.3	111.0	112.6	113.6	114.7	115.4	115.9	116.1	115.9	115.4	114.4
25°	117.5	120.1	122.3	124.3	125.9	127.3	128.2	128.7	128.8	128.3	127.4
27.5°	136.5	139.4	141.5	143.3	144.6	145.5	145.9	145.9	145.4	144.3	143.3
30°	167.2	169.9	171.1	172.0	172.3	171.9	170.9	169.3	167.2	164.6	163.0
32.5°	212.4	214.2	213.6	212.6	210.6	207.7	204.1	199.9	195.1	190.6	187.0
35°	263.0	263.7	261.5	258.7	254.7	249.7	243.7	236.9	229.4	222.5	215.6
37.5°	324.4	323.4	318.5	313.0	306.0	297.7	288.3	277.9	267.2	257.5	247.4
40°	399.4	396.7	388.8	379.9	368.8	355.8	341.2	325.0	309.7	295.9	281.8
42.5°	488.0	482.9	471.2	458.2	442.6	424.7	404.7	383.0	362.5	341.4	319.4
45°	596.4	588.2	571.0	552.3	530.2	505.1	477.4	451.0	421.9	394.4	366.8
47.5°	715.7	704.3	682.1	658.0	629.5	597.3	561.8	525.2	489.5	452.6	419.8
50°	858.5	843.8	814.9	783.2	745.8	703.1	655.8	610.3	564.9	520.2	480.1
52.5°	976.0	964.8	939.2	909.2	870.8	823.8	767.9	710.7	652.2	596.1	546.1
55°	1053.7	1052.0	1038.0	1018.3	988.7	947.8	894.2	826.7	752.8	684.3	617.3
57.5°	1117.0	1121.1	1114.9	1104.4	1086.5	1060.4	1017.4	942.1	865.9	778.8	697.5
60°	1170.3	1173.9	1169.8	1164.0	1155.0	1142.9	1102.9	1038.2	959.6	870.0	780.7
62.5°	1216.4	1218.5	1216.8	1211.2	1202.0	1189.3	1156.6	1109.6	1037.1	952.4	855.9
65°	1262.5	1261.4	1257.0	1250.4	1242.6	1231.2	1205.1	1165.8	1103.6	1021.1	923.0
67.5°	1296.8	1296.4	1292.3	1284.5	1273.3	1263.7	1250.3	1221.0	1169.4	1088.1	987.1
70°	1330.2	1326.5	1320.2	1312.6	1305.8	1294.4	1281.8	1263.1	1229.0	1154.4	1048.9
72.5°	1348.3	1347.2	1342.7	1334.1	1328.5	1319.2	1306.7	1292.7	1261.9	1197.1	1099.9
75°	1365.5	1365.5	1362.2	1355.9	1347.3	1339.4	1328.1	1312.4	1287.5	1229.6	1136.3
77.5°	1389.9	1387.3	1381.4	1373.7	1364.4	1352.1	1345.0	1332.0	1308.5	1258.9	1169.0
80°	1406.2	1402.6	1397.0	1386.4	1377.5	1365.9	1353.3	1347.8	1332.1	1286.8	1193.7
82.5°	1414.3	1412.6	1410.5	1405.1	1386.5	1375.7	1361.5	1353.7	1342.1	1302.3	1218.0
85°	1425.1	1423.5	1417.3	1406.1	1392.0	1383.2	1367.5	1355.5	1344.0	1312.1	1233.4
87.5°	1429.7	1423.8	1417.8	1407.6	1390.4	1384.8	1369.6	1357.2	1345.0	1317.3	1238.8
90°	1426.9	1420.6	1412.5	1411.6	1390.8	1382.7	1369.1	1358.3	1343.8	1315.8	1233.6
92.5°	1429.7	1423.8	1417.8	1407.6	1390.4	1384.8	1369.6	1357.2	1345.0	1317.3	1238.8
95°	1425.1	1423.5	1417.3	1406.1	1392.0	1383.2	1367.5	1355.5	1344.0	1312.1	1233.4
97.5°	1414.3	1412.6	1410.5	1405.1	1386.5	1375.7	1361.5	1353.7	1342.1	1302.3	1218.0
100°	1406.2	1402.6	1397.0	1386.4	1377.5	1365.9	1353.3	1347.8	1332.1	1286.8	1193.7
102.5°	1389.9	1387.3	1381.4	1373.7	1364.4	1352.1	1345.0	1332.0	1308.5	1258.9	1169.0
105°	1365.5	1365.5	1362.2	1355.9	1347.3	1339.4	1328.1	1312.4	1287.5	1229.6	1136.3
107.5°	1348.3	1347.2	1342.7	1334.1	1328.5	1319.2	1306.7	1292.7	1261.9	1197.1	1099.9
110°	1330.2	1326.5	1320.2	1312.6	1305.8	1294.4	1281.8	1263.1	1229.0	1154.4	1048.9



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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°	1296.8	1296.4	1292.3	1284.5	1273.3	1263.7	1250.3	1221.0	1169.4	1088.1	987.1
115°	1262.5	1261.4	1257.0	1250.4	1242.6	1231.2	1205.1	1165.8	1103.6	1021.1	923.0
117.5°	1216.4	1218.5	1216.8	1211.2	1202.0	1189.3	1156.6	1109.6	1037.1	952.4	855.9
120°	1170.3	1173.9	1169.8	1164.0	1155.0	1142.9	1102.9	1038.2	959.6	870.0	780.7
122.5°	1117.0	1121.1	1114.9	1104.4	1086.5	1060.4	1017.4	942.1	865.9	778.8	697.5
125°	1053.7	1052.0	1038.0	1018.3	988.7	947.8	894.2	826.7	752.8	684.3	617.3
127.5°	976.0	964.8	939.2	909.2	870.8	823.8	767.9	710.7	652.2	596.1	546.1
130°	858.5	843.8	814.9	783.2	745.8	703.1	655.8	610.3	564.9	520.2	480.1
132.5°	715.7	704.3	682.1	658.0	629.5	597.3	561.8	525.2	489.5	452.6	419.8
135°	596.4	588.2	571.0	552.3	530.2	505.1	477.4	451.0	421.9	394.4	366.8
137.5°	488.0	482.9	471.2	458.2	442.6	424.7	404.7	383.0	362.5	341.4	319.4
140°	399.4	396.7	388.8	379.9	368.8	355.8	341.2	325.0	309.7	295.9	281.8
142.5°	324.4	323.4	318.5	313.0	306.0	297.7	288.3	277.9	267.2	257.5	247.4
145°	263.0	263.7	261.5	258.7	254.7	249.7	243.7	236.9	229.4	222.5	215.6
147.5°	212.4	214.2	213.6	212.6	210.6	207.7	204.1	199.9	195.1	190.6	187.0
150°	167.2	169.9	171.1	172.0	172.3	171.9	170.9	169.3	167.2	164.6	163.0
152.5°	136.5	139.4	141.5	143.3	144.6	145.5	145.9	145.9	145.4	144.3	143.3
155°	117.5	120.1	122.3	124.3	125.9	127.3	128.2	128.7	128.8	128.3	127.4
157.5°	109.3	111.0	112.6	113.6	114.7	115.4	115.9	116.1	115.9	115.4	114.4
160°	103.0	103.9	104.8	105.4	105.9	106.3	106.5	106.4	106.1	105.4	104.5
162.5°	100.3	100.5	100.7	100.1	99.7	99.2	98.5	97.6	96.5	95.2	93.8
165°	88.6	88.7	88.8	87.9	87.3	86.4	85.4	84.3	82.9	81.5	79.9
167.5°	68.7	69.0	69.4	69.0	68.8	68.5	68.0	67.4	66.7	65.8	64.9
170°	52.4	52.8	53.2	53.6	53.1	53.0	52.8	52.5	52.0	51.5	50.9
172.5°	38.0	38.3	38.7	39.0	38.6	38.6	38.4	38.2	37.9	37.5	37.0
175°	22.6	22.9	23.1	23.4	23.6	23.2	23.2	23.1	23.0	22.8	22.5
177.5°	9.0	9.1	9.3	9.4	9.5	9.7	9.8	9.5	9.5	9.5	9.4
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	9.4	9.3	9.2	9.1	9.0	8.8	8.7	8.5	8.3	8.1	7.9
5°	22.2	21.9	21.5	21.1	20.6	20.0	19.5	18.8	18.2	17.4	16.7
7.5°	36.4	35.8	35.1	34.3	33.5	32.5	31.6	30.5	29.4	28.3	27.2
10°	50.2	49.4	48.5	47.5	46.4	45.3	44.0	42.6	41.1	39.5	37.9
12.5°	63.8	62.7	61.4	60.0	58.6	57.1	55.5	53.9	52.1	50.3	48.4
15°	78.1	76.3	74.3	72.5	70.7	68.8	66.8	64.8	62.7	60.4	58.1
17.5°	92.2	90.5	88.2	85.7	83.1	80.4	77.7	75.1	72.6	70.1	67.5
20°	103.2	101.4	99.3	96.9	94.4	91.7	88.6	85.5	82.3	79.1	76.1
22.5°	113.2	111.7	109.8	107.5	104.6	101.5	98.3	94.9	91.3	87.7	84.2
25°	126.2	124.5	122.3	119.6	116.5	112.9	108.7	104.1	100.0	95.8	91.8
27.5°	142.0	140.0	137.4	134.2	130.7	126.6	122.5	116.5	110.4	104.3	99.3
30°	160.9	158.2	155.6	151.7	147.4	142.2	136.9	130.9	124.5	118.2	111.9
32.5°	182.9	178.5	174.6	170.6	166.2	160.7	153.9	146.7	140.0	133.1	126.3
35°	208.4	201.6	196.2	190.5	184.4	177.9	171.0	163.1	154.9	147.3	139.9
37.5°	237.0	228.0	219.5	211.4	202.9	194.6	186.8	178.8	170.3	161.4	152.9
40°	268.1	256.1	243.8	233.0	222.7	212.9	203.4	193.9	184.9	175.6	165.9
42.5°	301.6	285.5	269.9	256.5	244.1	232.0	220.8	210.1	199.2	189.2	179.0
45°	342.5	317.6	298.2	280.4	265.0	250.9	238.5	226.6	214.6	202.6	191.6
47.5°	388.7	358.2	331.0	305.9	287.0	270.0	255.5	242.6	230.1	216.8	204.1
50°	438.7	402.4	367.6	337.5	310.0	289.4	271.9	257.5	244.5	231.4	216.7
52.5°	496.5	450.8	407.6	370.5	337.8	309.2	288.4	271.5	258.3	244.7	233.3
55°	558.0	502.7	452.6	405.1	366.2	332.8	304.4	285.3	273.1	262.8	254.0
57.5°	624.4	556.7	498.4	444.8	395.8	356.3	327.5	305.4	289.9	279.4	270.4
60°	693.8	615.3	543.8	483.5	431.7	387.9	352.1	324.9	307.3	295.0	285.8
62.5°	761.5	672.8	594.0	527.0	469.4	418.3	378.2	346.6	323.7	309.1	300.0
65°	821.6	731.1	647.6	570.2	506.0	450.2	403.0	365.5	339.6	323.6	313.4
67.5°	883.5	786.5	697.2	614.8	539.4	477.7	427.1	386.3	356.5	337.1	325.7
70°	941.2	836.6	741.6	653.3	573.5	505.7	450.0	405.3	371.1	349.2	337.0
72.5°	988.4	879.6	777.3	685.7	604.0	529.6	468.7	423.4	384.2	361.3	348.0
75°	1025.5	914.1	807.8	710.2	628.2	550.6	487.9	439.6	400.7	374.0	357.6
77.5°	1051.9	938.5	831.1	733.9	650.9	575.7	509.9	457.2	415.8	385.9	366.9
80°	1076.8	963.8	858.0	757.7	669.8	595.4	528.4	472.7	429.1	397.0	376.0
82.5°	1102.5	985.1	877.4	775.4	683.1	609.9	543.4	486.3	440.5	407.3	384.8
85°	1117.3	997.8	889.0	786.7	691.1	619.7	555.1	497.7	450.3	416.7	393.2
87.5°	1121.5	1006.1	896.6	794.9	696.2	626.9	565.0	508.1	459.3	425.7	401.4
90°	1115.2	997.7	890.1	790.7	693.1	627.2	569.3	514.2	465.4	432.9	408.5
92.5°	1121.5	1006.1	896.6	794.9	696.2	626.9	565.0	508.1	459.3	425.7	401.4
95°	1117.3	997.8	889.0	786.7	691.1	619.7	555.1	497.7	450.3	416.7	393.2
97.5°	1102.5	985.1	877.4	775.4	683.1	609.9	543.4	486.3	440.5	407.3	384.8
100°	1076.8	963.8	858.0	757.7	669.8	595.4	528.4	472.7	429.1	397.0	376.0
102.5°	1051.9	938.5	831.1	733.9	650.9	575.7	509.9	457.2	415.8	385.9	366.9
105°	1025.5	914.1	807.8	710.2	628.2	550.6	487.9	439.6	400.7	374.0	357.6
107.5°	988.4	879.6	777.3	685.7	604.0	529.6	468.7	423.4	384.2	361.3	348.0
110°	941.2	836.6	741.6	653.3	573.5	505.7	450.0	405.3	371.1	349.2	337.0



TEST NUMBER: P232047

CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-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°	883.5	786.5	697.2	614.8	539.4	477.7	427.1	386.3	356.5	337.1	325.7
115°	821.6	731.1	647.6	570.2	506.0	450.2	403.0	365.5	339.6	323.6	313.4
117.5°	761.5	672.8	594.0	527.0	469.4	418.3	378.2	346.6	323.7	309.1	300.0
120°	693.8	615.3	543.8	483.5	431.7	387.9	352.1	324.9	307.3	295.0	285.8
122.5°	624.4	556.7	498.4	444.8	395.8	356.3	327.5	305.4	289.9	279.4	270.4
125°	558.0	502.7	452.6	405.1	366.2	332.8	304.4	285.3	273.1	262.8	254.0
127.5°	496.5	450.8	407.6	370.5	337.8	309.2	288.4	271.5	258.3	244.7	233.3
130°	438.7	402.4	367.6	337.5	310.0	289.4	271.9	257.5	244.5	231.4	216.7
132.5°	388.7	358.2	331.0	305.9	287.0	270.0	255.5	242.6	230.1	216.8	204.1
135°	342.5	317.6	298.2	280.4	265.0	250.9	238.5	226.6	214.6	202.6	191.6
137.5°	301.6	285.5	269.9	256.5	244.1	232.0	220.8	210.1	199.2	189.2	179.0
140°	268.1	256.1	243.8	233.0	222.7	212.9	203.4	193.9	184.9	175.6	165.9
142.5°	237.0	228.0	219.5	211.4	202.9	194.6	186.8	178.8	170.3	161.4	152.9
145°	208.4	201.6	196.2	190.5	184.4	177.9	171.0	163.1	154.9	147.3	139.9
147.5°	182.9	178.5	174.6	170.6	166.2	160.7	153.9	146.7	140.0	133.1	126.3
150°	160.9	158.2	155.6	151.7	147.4	142.2	136.9	130.9	124.5	118.2	111.9
152.5°	142.0	140.0	137.4	134.2	130.7	126.6	122.5	116.5	110.4	104.3	99.3
155°	126.2	124.5	122.3	119.6	116.5	112.9	108.7	104.1	100.0	95.8	91.8
157.5°	113.2	111.7	109.8	107.5	104.6	101.5	98.3	94.9	91.3	87.7	84.2
160°	103.2	101.4	99.3	96.9	94.4	91.7	88.6	85.5	82.3	79.1	76.1
162.5°	92.2	90.5	88.2	85.7	83.1	80.4	77.7	75.1	72.6	70.1	67.5
165°	78.1	76.3	74.3	72.5	70.7	68.8	66.8	64.8	62.7	60.4	58.1
167.5°	63.8	62.7	61.4	60.0	58.6	57.1	55.5	53.9	52.1	50.3	48.4
170°	50.2	49.4	48.5	47.5	46.4	45.3	44.0	42.6	41.1	39.5	37.9
172.5°	36.4	35.8	35.1	34.3	33.5	32.5	31.6	30.5	29.4	28.3	27.2
175°	22.2	21.9	21.5	21.1	20.6	20.0	19.5	18.8	18.2	17.4	16.7
177.5°	9.4	9.3	9.2	9.1	9.0	8.8	8.7	8.5	8.3	8.1	7.9
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P232047

CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	7.7	7.4	7.2	6.9	6.6	6.3	6.0	5.6	5.3	5.0	4.6
5°	15.9	15.1	14.2	13.7	13.1	12.5	11.9	11.2	10.6	9.9	9.2
7.5°	26.0	24.8	23.5	22.1	20.7	19.3	17.8	16.7	15.8	14.8	13.7
10°	36.2	34.4	32.7	30.8	29.0	27.1	25.1	23.1	21.0	19.6	18.2
12.5°	46.3	44.1	41.9	39.5	37.2	34.8	32.3	29.8	27.3	24.7	22.7
15°	55.8	53.3	51.1	48.0	45.2	42.4	39.5	36.5	33.5	30.4	27.2
17.5°	65.2	62.0	59.1	56.0	52.9	49.7	46.4	43.0	39.6	36.0	32.3
20°	73.2	70.2	67.1	63.7	60.2	56.7	53.0	49.3	45.5	41.5	37.4
22.5°	80.8	77.5	74.3	71.0	67.3	63.4	59.4	55.3	51.2	47.0	42.4
25°	87.8	84.2	80.7	77.2	74.7	71.5	68.0	64.3	60.5	56.6	52.2
27.5°	95.6	92.8	90.3	87.8	85.2	82.4	78.9	75.1	71.2	67.0	62.6
30°	107.6	103.8	100.6	98.0	95.3	92.5	89.4	85.6	81.9	77.2	72.8
32.5°	119.6	114.7	110.9	107.7	105.0	102.2	99.2	95.7	91.7	87.3	82.6
35°	132.7	125.8	121.0	117.2	114.3	111.6	108.6	105.7	101.4	97.2	92.4
37.5°	145.0	137.6	130.7	126.6	123.3	120.5	117.7	114.6	110.9	106.8	102.0
40°	157.0	148.6	141.4	135.1	131.8	128.9	126.4	123.4	120.1	116.1	111.4
42.5°	168.6	159.6	151.2	144.5	139.9	137.1	134.7	132.0	129.0	125.2	120.7
45°	180.7	169.9	161.0	153.5	147.4	144.9	142.6	140.3	137.5	134.0	129.9
47.5°	192.1	180.8	170.5	162.0	155.6	153.4	154.0	154.0	153.4	152.0	149.5
50°	203.7	192.0	184.3	179.0	175.4	173.7	174.4	174.3	174.0	173.5	171.5
52.5°	222.4	213.9	206.8	200.9	196.4	194.1	194.6	194.6	194.3	194.7	193.0
55°	242.8	234.6	227.9	222.3	217.3	215.0	214.8	215.0	214.3	215.5	214.4
57.5°	261.6	253.6	247.9	243.0	238.4	235.5	234.8	235.4	234.2	236.0	235.7
60°	278.2	271.3	266.4	262.7	259.0	255.7	254.8	255.7	254.4	256.3	256.8
62.5°	293.1	287.6	283.9	281.4	279.1	275.4	274.8	275.7	274.6	276.3	277.9
65°	306.7	302.4	300.1	299.0	298.7	295.4	294.8	295.7	294.8	296.2	298.9
67.5°	319.2	315.6	315.2	315.9	317.1	315.2	314.6	315.6	315.0	316.0	319.8
70°	330.8	328.0	329.4	331.1	332.1	330.3	328.6	328.6	327.8	327.0	327.2
72.5°	340.0	335.1	333.9	335.1	337.2	337.7	336.9	337.4	337.5	336.5	333.4
75°	347.2	340.3	337.4	338.8	342.1	344.6	345.0	346.2	347.0	346.5	340.1
77.5°	354.6	345.8	341.1	342.1	346.7	351.0	353.0	355.0	356.2	356.8	347.2
80°	362.0	351.4	344.7	345.3	351.1	357.1	360.9	363.7	365.3	367.4	354.6
82.5°	369.5	357.0	348.5	348.4	355.5	363.0	368.7	372.4	374.3	378.1	363.3
85°	376.8	362.6	352.2	351.5	359.8	368.6	376.4	381.0	383.1	389.3	370.2
87.5°	384.0	368.2	356.0	354.5	364.1	374.5	384.3	389.8	392.2	399.8	377.2
90°	390.4	373.2	359.7	357.9	368.7	380.5	392.2	398.5	401.2	410.3	384.1
92.5°	384.0	368.2	356.0	354.5	364.1	374.5	384.3	389.8	392.2	399.8	377.2
95°	376.8	362.6	352.2	351.5	359.8	368.6	376.4	381.0	383.1	389.3	370.2
97.5°	369.5	357.0	348.5	348.4	355.5	363.0	368.7	372.4	374.3	378.1	363.3
100°	362.0	351.4	344.7	345.3	351.1	357.1	360.9	363.7	365.3	367.4	354.6
102.5°	354.6	345.8	341.1	342.1	346.7	351.0	353.0	355.0	356.2	356.8	347.2
105°	347.2	340.3	337.4	338.8	342.1	344.6	345.0	346.2	347.0	346.5	340.1
107.5°	340.0	335.1	333.9	335.1	337.2	337.7	336.9	337.4	337.5	336.5	333.4
110°	330.8	328.0	329.4	331.1	332.1	330.3	328.6	328.6	327.8	327.0	327.2



TEST NUMBER: P232047

CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	319.2	315.6	315.2	315.9	317.1	315.2	314.6	315.6	315.0	316.0	319.8
115°	306.7	302.4	300.1	299.0	298.7	295.4	294.8	295.7	294.8	296.2	298.9
117.5°	293.1	287.6	283.9	281.4	279.1	275.4	274.8	275.7	274.6	276.3	277.9
120°	278.2	271.3	266.4	262.7	259.0	255.7	254.8	255.7	254.4	256.3	256.8
122.5°	261.6	253.6	247.9	243.0	238.4	235.5	234.8	235.4	234.2	236.0	235.7
125°	242.8	234.6	227.9	222.3	217.3	215.0	214.8	215.0	214.3	215.5	214.4
127.5°	222.4	213.9	206.8	200.9	196.4	194.1	194.6	194.6	194.3	194.7	193.0
130°	203.7	192.0	184.3	179.0	175.4	173.7	174.4	174.3	174.0	173.5	171.5
132.5°	192.1	180.8	170.5	162.0	155.6	153.4	154.0	154.0	153.4	152.0	149.5
135°	180.7	169.9	161.0	153.5	147.4	144.9	142.6	140.3	137.5	134.0	129.9
137.5°	168.6	159.6	151.2	144.5	139.9	137.1	134.7	132.0	129.0	125.2	120.7
140°	157.0	148.6	141.4	135.1	131.8	128.9	126.4	123.4	120.1	116.1	111.4
142.5°	145.0	137.6	130.7	126.6	123.3	120.5	117.7	114.6	110.9	106.8	102.0
145°	132.7	125.8	121.0	117.2	114.3	111.6	108.6	105.7	101.4	97.2	92.4
147.5°	119.6	114.7	110.9	107.7	105.0	102.2	99.2	95.7	91.7	87.3	82.6
150°	107.6	103.8	100.6	98.0	95.3	92.5	89.4	85.6	81.9	77.2	72.8
152.5°	95.6	92.8	90.3	87.8	85.2	82.4	78.9	75.1	71.2	67.0	62.6
155°	87.8	84.2	80.7	77.2	74.7	71.5	68.0	64.3	60.5	56.6	52.2
157.5°	80.8	77.5	74.3	71.0	67.3	63.4	59.4	55.3	51.2	47.0	42.4
160°	73.2	70.2	67.1	63.7	60.2	56.7	53.0	49.3	45.5	41.5	37.4
162.5°	65.2	62.0	59.1	56.0	52.9	49.7	46.4	43.0	39.6	36.0	32.3
165°	55.8	53.3	51.1	48.0	45.2	42.4	39.5	36.5	33.5	30.4	27.2
167.5°	46.3	44.1	41.9	39.5	37.2	34.8	32.3	29.8	27.3	24.7	22.7
170°	36.2	34.4	32.7	30.8	29.0	27.1	25.1	23.1	21.0	19.6	18.2
172.5°	26.0	24.8	23.5	22.1	20.7	19.3	17.8	16.7	15.8	14.8	13.7
175°	15.9	15.1	14.2	13.7	13.1	12.5	11.9	11.2	10.6	9.9	9.2
177.5°	7.7	7.4	7.2	6.9	6.6	6.3	6.0	5.6	5.3	5.0	4.6
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P232047

CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	4.2	3.9	3.5	3.1	3.1	3.1	3.1	3.0	3.0	3.0	2.9
5°	8.5	7.7	7.0	6.2	6.2	6.2	6.1	6.1	6.0	5.9	5.8
7.5°	12.7	11.6	10.5	9.3	9.3	9.2	9.1	9.0	8.9	8.8	8.6
10°	16.8	15.4	13.9	12.4	12.4	12.3	12.1	12.0	11.8	11.6	11.5
12.5°	20.9	19.2	17.4	15.6	15.4	15.3	15.1	14.9	14.7	14.6	14.4
15°	25.0	22.9	20.8	18.7	18.5	18.3	18.1	17.8	17.7	17.5	17.3
17.5°	29.1	26.7	24.3	21.8	21.5	21.3	21.0	20.8	20.6	20.4	20.2
20°	33.2	30.4	27.7	24.9	24.6	24.3	23.9	23.8	23.6	23.3	23.1
22.5°	37.7	34.1	31.1	28.0	27.6	27.2	26.9	26.7	26.5	26.3	26.0
25°	47.6	43.6	40.6	37.4	37.2	36.7	36.3	35.8	35.1	34.2	33.0
27.5°	57.7	53.1	50.1	46.9	46.8	46.4	46.2	45.8	45.1	44.0	42.5
30°	67.7	62.6	59.5	56.3	56.4	56.3	56.2	56.0	55.0	53.8	51.4
32.5°	77.6	72.3	69.0	65.8	66.1	66.2	66.3	66.0	64.9	63.0	59.8
35°	87.3	81.9	78.3	75.2	75.8	76.1	76.5	76.0	74.8	71.7	67.8
37.5°	96.9	91.5	87.7	84.7	85.5	86.1	86.7	86.0	84.7	80.0	74.6
40°	106.3	100.9	97.0	94.1	95.2	96.2	97.0	96.0	93.3	87.9	80.7
42.5°	115.6	110.3	106.2	103.6	105.0	106.3	107.3	105.9	101.9	95.8	86.2
45°	124.8	119.6	115.4	113.0	114.8	116.4	117.3	115.9	110.1	101.8	91.1
47.5°	143.5	135.8	128.4	123.0	122.1	121.5	120.7	119.0	112.5	103.8	93.7
50°	163.5	152.8	141.7	133.1	129.2	126.0	123.1	120.1	112.6	103.4	94.2
52.5°	184.0	170.3	155.2	143.1	136.1	130.1	125.4	120.7	112.7	103.6	95.4
55°	204.8	188.2	168.8	153.1	142.8	133.9	127.4	121.3	112.8	104.2	97.3
57.5°	226.0	206.4	182.6	163.2	149.3	137.5	129.3	121.9	113.2	105.4	99.7
60°	247.4	225.0	196.6	173.2	155.7	140.8	131.0	122.5	113.9	107.3	103.0
62.5°	269.1	243.9	210.7	183.2	161.9	143.8	132.7	123.1	115.0	109.7	106.7
65°	291.0	263.0	224.9	193.3	168.0	146.7	134.2	123.8	116.3	112.5	111.0
67.5°	313.0	282.2	239.1	203.3	174.1	149.4	135.6	124.5	117.9	115.7	115.6
70°	316.5	282.5	237.9	201.5	172.3	147.8	134.4	123.1	117.2	115.8	116.9
72.5°	318.7	282.0	236.4	199.7	170.5	146.3	133.0	121.5	115.9	114.6	116.0
75°	320.8	281.4	236.2	197.9	168.8	144.8	131.7	119.9	114.7	113.4	115.1
77.5°	323.0	280.6	234.2	196.1	167.2	143.5	130.5	118.4	113.6	112.1	114.2
80°	325.1	281.1	232.2	194.3	165.6	142.2	129.4	116.9	112.4	110.8	113.2
82.5°	328.3	279.3	230.1	192.5	164.1	141.1	128.3	115.6	111.4	109.6	112.3
85°	329.5	277.4	228.1	190.7	162.7	140.1	127.4	114.3	110.3	108.3	111.3
87.5°	330.6	275.6	226.1	188.9	161.3	139.1	126.4	113.2	109.4	107.0	110.3
90°	331.7	273.8	224.1	187.1	160.0	138.3	125.6	112.1	108.4	105.7	109.3
92.5°	330.6	275.6	226.1	188.9	161.3	139.1	126.4	113.2	109.4	107.0	110.3
95°	329.5	277.4	228.1	190.7	162.7	140.1	127.4	114.3	110.3	108.3	111.3
97.5°	328.3	279.3	230.1	192.5	164.1	141.1	128.3	115.6	111.4	109.6	112.3
100°	325.1	281.1	232.2	194.3	165.6	142.2	129.4	116.9	112.4	110.8	113.2
102.5°	323.0	280.6	234.2	196.1	167.2	143.5	130.5	118.4	113.6	112.1	114.2
105°	320.8	281.4	236.2	197.9	168.8	144.8	131.7	119.9	114.7	113.4	115.1
107.5°	318.7	282.0	236.4	199.7	170.5	146.3	133.0	121.5	115.9	114.6	116.0
110°	316.5	282.5	237.9	201.5	172.3	147.8	134.4	123.1	117.2	115.8	116.9



TEST NUMBER: P232047

CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-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°	313.0	282.2	239.1	203.3	174.1	149.4	135.6	124.5	117.9	115.7	115.6
115°	291.0	263.0	224.9	193.3	168.0	146.7	134.2	123.8	116.3	112.5	111.0
117.5°	269.1	243.9	210.7	183.2	161.9	143.8	132.7	123.1	115.0	109.7	106.7
120°	247.4	225.0	196.6	173.2	155.7	140.8	131.0	122.5	113.9	107.3	103.0
122.5°	226.0	206.4	182.6	163.2	149.3	137.5	129.3	121.9	113.2	105.4	99.7
125°	204.8	188.2	168.8	153.1	142.8	133.9	127.4	121.3	112.8	104.2	97.3
127.5°	184.0	170.3	155.2	143.1	136.1	130.1	125.4	120.7	112.7	103.6	95.4
130°	163.5	152.8	141.7	133.1	129.2	126.0	123.1	120.1	112.6	103.4	94.2
132.5°	143.5	135.8	128.4	123.0	122.1	121.5	120.7	119.0	112.5	103.8	93.7
135°	124.8	119.6	115.4	113.0	114.8	116.4	117.3	115.9	110.1	101.8	91.1
137.5°	115.6	110.3	106.2	103.6	105.0	106.3	107.3	105.9	101.9	95.8	86.2
140°	106.3	100.9	97.0	94.1	95.2	96.2	97.0	96.0	93.3	87.9	80.7
142.5°	96.9	91.5	87.7	84.7	85.5	86.1	86.7	86.0	84.7	80.0	74.6
145°	87.3	81.9	78.3	75.2	75.8	76.1	76.5	76.0	74.8	71.7	67.8
147.5°	77.6	72.3	69.0	65.8	66.1	66.2	66.3	66.0	64.9	63.0	59.8
150°	67.7	62.6	59.5	56.3	56.4	56.3	56.2	56.0	55.0	53.8	51.4
152.5°	57.7	53.1	50.1	46.9	46.8	46.4	46.2	45.8	45.1	44.0	42.5
155°	47.6	43.6	40.6	37.4	37.2	36.7	36.3	35.8	35.1	34.2	33.0
157.5°	37.7	34.1	31.1	28.0	27.6	27.2	26.9	26.7	26.5	26.3	26.0
160°	33.2	30.4	27.7	24.9	24.6	24.3	23.9	23.8	23.6	23.3	23.1
162.5°	29.1	26.7	24.3	21.8	21.5	21.3	21.0	20.8	20.6	20.4	20.2
165°	25.0	22.9	20.8	18.7	18.5	18.3	18.1	17.8	17.7	17.5	17.3
167.5°	20.9	19.2	17.4	15.6	15.4	15.3	15.1	14.9	14.7	14.6	14.4
170°	16.8	15.4	13.9	12.4	12.4	12.3	12.1	12.0	11.8	11.6	11.5
172.5°	12.7	11.6	10.5	9.3	9.3	9.2	9.1	9.0	8.9	8.8	8.6
175°	8.5	7.7	7.0	6.2	6.2	6.2	6.1	6.1	6.0	5.9	5.8
177.5°	4.2	3.9	3.5	3.1	3.1	3.1	3.1	3.0	3.0	3.0	2.9
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P232047

CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	2.9	2.8	2.8	2.7	2.7	2.6	2.5	2.4	2.3	2.2	2.2
5°	5.7	5.6	5.5	5.4	5.2	5.1	4.9	4.8	4.6	4.4	4.3
7.5°	8.5	8.4	8.2	8.0	7.8	7.6	7.4	7.2	6.9	6.7	6.4
10°	11.3	11.1	10.9	10.7	10.5	10.2	9.9	9.6	9.3	8.9	8.6
12.5°	14.2	13.9	13.7	13.4	13.1	12.8	12.4	12.0	11.6	11.2	10.7
15°	17.0	16.7	16.4	16.1	15.7	15.3	14.9	14.5	14.0	13.5	12.8
17.5°	19.9	19.6	19.2	18.8	18.4	17.9	17.4	16.8	16.1	15.4	14.7
20°	22.7	22.4	22.0	21.6	21.1	20.4	19.6	18.9	18.1	17.5	16.8
22.5°	25.6	25.2	24.8	24.2	23.4	22.6	21.8	21.2	20.5	19.8	19.0
25°	31.6	30.1	28.4	26.6	25.7	25.0	24.3	23.6	22.9	22.1	21.2
27.5°	40.5	38.4	35.8	33.3	31.2	29.3	27.6	26.1	25.3	24.2	23.0
30°	48.9	45.5	42.1	39.2	36.6	34.3	32.2	30.2	28.2	26.3	24.7
32.5°	56.1	51.7	47.7	44.3	41.1	38.3	35.7	33.1	30.8	28.8	26.9
35°	62.4	57.1	52.6	48.4	44.8	41.4	38.2	35.4	33.0	30.8	29.2
37.5°	68.0	62.1	56.6	52.0	47.6	43.7	40.3	37.4	34.9	32.9	31.0
40°	73.0	66.3	60.2	54.7	49.9	45.5	42.1	39.1	36.8	34.6	32.4
42.5°	77.6	69.7	63.1	57.0	51.6	47.4	43.7	40.9	38.3	35.9	33.7
45°	81.6	73.0	65.4	58.9	53.4	48.8	45.4	42.4	39.6	37.2	34.9
47.5°	84.4	75.7	67.6	60.3	55.0	50.5	46.9	43.7	40.9	38.5	36.2
50°	85.7	78.0	70.8	64.0	57.8	52.3	48.3	45.0	42.3	39.9	37.6
52.5°	88.1	81.3	75.0	69.5	64.0	58.5	53.1	48.2	43.8	41.5	39.1
55°	91.2	85.6	80.2	75.7	70.5	64.9	59.4	54.2	49.5	45.1	40.8
57.5°	95.0	90.5	86.5	82.5	77.1	71.3	65.5	60.0	54.7	49.7	44.6
60°	99.5	96.1	93.3	89.4	83.8	77.7	71.5	65.3	59.4	53.6	47.8
62.5°	104.5	102.3	100.7	96.4	90.5	84.0	77.2	70.3	63.8	56.9	50.8
65°	110.1	109.1	108.7	103.7	97.2	90.2	82.6	75.0	67.5	59.8	53.2
67.5°	116.1	116.5	116.0	111.0	104.0	96.3	87.8	79.4	70.7	62.6	55.3
70°	118.8	121.1	121.6	117.6	110.6	102.3	92.8	83.6	73.8	65.1	57.2
72.5°	118.2	120.9	121.1	117.6	111.9	104.5	95.8	86.6	76.7	67.4	58.9
75°	117.6	120.6	120.9	118.0	112.9	105.7	97.1	88.0	78.4	69.2	60.7
77.5°	117.0	120.3	121.1	118.9	114.2	107.2	98.9	89.8	80.4	71.1	62.3
80°	116.5	120.0	121.4	120.1	115.9	109.1	100.9	92.0	82.8	73.3	64.1
82.5°	115.9	119.7	122.0	121.5	117.8	111.2	103.3	94.7	85.5	75.7	66.1
85°	115.3	119.3	122.6	123.1	120.0	113.7	106.0	97.8	88.6	78.4	68.4
87.5°	114.6	118.9	123.2	124.8	122.3	116.4	108.9	101.1	92.0	81.4	71.1
90°	113.9	118.4	123.8	126.5	124.7	119.3	112.1	104.8	95.8	84.9	74.1
92.5°	114.6	118.9	123.2	124.8	122.3	116.4	108.9	101.1	92.0	81.4	71.1
95°	115.3	119.3	122.6	123.1	120.0	113.7	106.0	97.8	88.6	78.4	68.4
97.5°	115.9	119.7	122.0	121.5	117.8	111.2	103.3	94.7	85.5	75.7	66.1
100°	116.5	120.0	121.4	120.1	115.9	109.1	100.9	92.0	82.8	73.3	64.1
102.5°	117.0	120.3	121.1	118.9	114.2	107.2	98.9	89.8	80.4	71.1	62.3
105°	117.6	120.6	120.9	118.0	112.9	105.7	97.1	88.0	78.4	69.2	60.7
107.5°	118.2	120.9	121.1	117.6	111.9	104.5	95.8	86.6	76.7	67.4	58.9
110°	118.8	121.1	121.6	117.6	110.6	102.3	92.8	83.6	73.8	65.1	57.2



TEST NUMBER: P232047

CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	116.1	116.5	116.0	111.0	104.0	96.3	87.8	79.4	70.7	62.6	55.3
115°	110.1	109.1	108.7	103.7	97.2	90.2	82.6	75.0	67.5	59.8	53.2
117.5°	104.5	102.3	100.7	96.4	90.5	84.0	77.2	70.3	63.8	56.9	50.8
120°	99.5	96.1	93.3	89.4	83.8	77.7	71.5	65.3	59.4	53.6	47.8
122.5°	95.0	90.5	86.5	82.5	77.1	71.3	65.5	60.0	54.7	49.7	44.6
125°	91.2	85.6	80.2	75.7	70.5	64.9	59.4	54.2	49.5	45.1	40.8
127.5°	88.1	81.3	75.0	69.5	64.0	58.5	53.1	48.2	43.8	41.5	39.1
130°	85.7	78.0	70.8	64.0	57.8	52.3	48.3	45.0	42.3	39.9	37.6
132.5°	84.4	75.7	67.6	60.3	55.0	50.5	46.9	43.7	40.9	38.5	36.2
135°	81.6	73.0	65.4	58.9	53.4	48.8	45.4	42.4	39.6	37.2	34.9
137.5°	77.6	69.7	63.1	57.0	51.6	47.4	43.7	40.9	38.3	35.9	33.7
140°	73.0	66.3	60.2	54.7	49.9	45.5	42.1	39.1	36.8	34.6	32.4
142.5°	68.0	62.1	56.6	52.0	47.6	43.7	40.3	37.4	34.9	32.9	31.0
145°	62.4	57.1	52.6	48.4	44.8	41.4	38.2	35.4	33.0	30.8	29.2
147.5°	56.1	51.7	47.7	44.3	41.1	38.3	35.7	33.1	30.8	28.8	26.9
150°	48.9	45.5	42.1	39.2	36.6	34.3	32.2	30.2	28.2	26.3	24.7
152.5°	40.5	38.4	35.8	33.3	31.2	29.3	27.6	26.1	25.3	24.2	23.0
155°	31.6	30.1	28.4	26.6	25.7	25.0	24.3	23.6	22.9	22.1	21.2
157.5°	25.6	25.2	24.8	24.2	23.4	22.6	21.8	21.2	20.5	19.8	19.0
160°	22.7	22.4	22.0	21.6	21.1	20.4	19.6	18.9	18.1	17.5	16.8
162.5°	19.9	19.6	19.2	18.8	18.4	17.9	17.4	16.8	16.1	15.4	14.7
165°	17.0	16.7	16.4	16.1	15.7	15.3	14.9	14.5	14.0	13.5	12.8
167.5°	14.2	13.9	13.7	13.4	13.1	12.8	12.4	12.0	11.6	11.2	10.7
170°	11.3	11.1	10.9	10.7	10.5	10.2	9.9	9.6	9.3	8.9	8.6
172.5°	8.5	8.4	8.2	8.0	7.8	7.6	7.4	7.2	6.9	6.7	6.4
175°	5.7	5.6	5.5	5.4	5.2	5.1	4.9	4.8	4.6	4.4	4.3
177.5°	2.9	2.8	2.8	2.7	2.7	2.6	2.5	2.4	2.3	2.2	2.2
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P232047

CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	2.1	2.0	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.0	0.9
5°	4.1	3.9	3.7	3.5	3.2	3.0	2.8	2.6	2.3	2.1	1.8
7.5°	6.1	5.8	5.5	5.2	4.9	4.5	4.2	3.8	3.5	3.1	2.7
10°	8.2	7.8	7.4	7.0	6.5	6.1	5.6	5.1	4.6	4.2	3.7
12.5°	10.3	9.8	9.3	8.7	8.1	7.5	6.9	6.3	5.7	5.1	4.5
15°	12.2	11.5	10.9	10.2	9.5	8.9	8.2	7.5	6.8	6.1	5.4
17.5°	14.0	13.3	12.7	11.9	11.2	10.4	9.6	8.8	8.0	7.2	6.3
20°	16.1	15.3	14.5	13.7	12.9	12.0	11.1	10.1	9.1	8.1	7.1
22.5°	18.2	17.4	16.4	15.4	14.3	13.3	12.2	11.1	10.0	8.9	7.8
25°	20.2	19.1	17.9	16.8	15.6	14.4	13.3	12.1	11.0	9.8	8.7
27.5°	21.8	20.6	19.4	18.1	16.9	15.8	14.7	13.5	12.2	10.8	9.5
30°	23.4	22.1	21.0	19.9	18.7	17.3	15.9	14.4	13.0	11.6	10.1
32.5°	25.4	24.1	22.9	21.4	19.9	18.4	16.9	15.3	13.8	12.2	10.6
35°	27.7	25.9	24.3	22.7	21.1	19.4	17.7	15.9	14.1	12.4	10.9
37.5°	29.1	27.3	25.5	23.8	21.9	19.9	18.0	16.3	14.7	13.0	11.4
40°	30.4	28.5	26.5	24.4	22.4	20.6	18.8	17.1	15.3	13.6	11.9
42.5°	31.6	29.5	27.3	25.4	23.4	21.5	19.6	17.8	16.0	14.2	12.4
45°	32.7	30.5	28.5	26.4	24.3	22.3	20.4	18.5	16.6	14.7	12.8
47.5°	34.0	31.8	29.6	27.3	25.2	23.1	21.1	19.1	17.2	15.2	13.3
50°	35.4	32.9	30.4	28.2	26.0	23.8	21.6	19.6	17.7	15.7	13.7
52.5°	36.6	33.8	31.5	29.1	26.6	24.3	22.2	20.2	18.1	16.1	14.1
55°	37.5	35.0	32.4	29.6	27.3	25.1	22.9	20.7	18.6	16.5	14.4
57.5°	40.0	36.2	33.0	30.4	28.1	25.8	23.5	21.2	19.0	16.8	14.7
60°	43.0	38.4	34.4	31.3	28.9	26.5	24.1	21.7	19.3	16.9	14.5
62.5°	45.3	40.2	36.2	32.8	29.8	27.2	24.7	22.0	19.3	16.6	13.9
65°	47.1	42.0	37.6	33.8	30.4	27.7	25.0	21.9	18.9	16.0	13.4
67.5°	48.8	43.4	38.6	34.4	30.7	27.5	24.5	21.6	18.3	15.2	12.6
70°	50.4	44.5	39.3	34.6	30.7	27.1	23.8	20.5	17.2	14.5	11.8
72.5°	51.7	45.5	39.7	34.7	30.4	26.6	22.9	19.2	16.4	13.6	10.9
75°	53.0	46.3	40.0	34.6	30.2	26.0	21.9	18.5	15.6	12.6	9.8
77.5°	54.4	47.2	40.4	34.7	29.9	25.5	21.1	18.3	14.9	11.7	8.9
80°	55.9	48.1	40.9	34.9	29.6	24.7	20.8	18.0	14.3	10.8	7.9
82.5°	57.5	49.1	41.6	35.1	29.3	24.0	20.0	16.7	13.3	10.0	7.0
85°	59.4	50.5	42.4	35.5	29.2	23.5	19.2	15.6	12.4	9.2	6.6
87.5°	61.6	52.1	43.6	36.1	29.3	23.3	18.5	14.9	11.9	8.9	6.7
90°	64.2	54.2	45.2	37.1	29.8	23.5	18.1	14.5	11.7	9.0	7.2
92.5°	61.6	52.1	43.6	36.1	29.3	23.3	18.5	14.9	11.9	8.9	6.7
95°	59.4	50.5	42.4	35.5	29.2	23.5	19.2	15.6	12.4	9.2	6.6
97.5°	57.5	49.1	41.6	35.1	29.3	24.0	20.0	16.7	13.3	10.0	7.0
100°	55.9	48.1	40.9	34.9	29.6	24.7	20.8	18.0	14.3	10.8	7.9
102.5°	54.4	47.2	40.4	34.7	29.9	25.5	21.1	18.3	14.9	11.7	8.9
105°	53.0	46.3	40.0	34.6	30.2	26.0	21.9	18.5	15.6	12.6	9.8
107.5°	51.7	45.5	39.7	34.7	30.4	26.6	22.9	19.2	16.4	13.6	10.9
110°	50.4	44.5	39.3	34.6	30.7	27.1	23.8	20.5	17.2	14.5	11.8



TEST NUMBER: P232047

CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-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°	48.8	43.4	38.6	34.4	30.7	27.5	24.5	21.6	18.3	15.2	12.6
115°	47.1	42.0	37.6	33.8	30.4	27.7	25.0	21.9	18.9	16.0	13.4
117.5°	45.3	40.2	36.2	32.8	29.8	27.2	24.7	22.0	19.3	16.6	13.9
120°	43.0	38.4	34.4	31.3	28.9	26.5	24.1	21.7	19.3	16.9	14.5
122.5°	40.0	36.2	33.0	30.4	28.1	25.8	23.5	21.2	19.0	16.8	14.7
125°	37.5	35.0	32.4	29.6	27.3	25.1	22.9	20.7	18.6	16.5	14.4
127.5°	36.6	33.8	31.5	29.1	26.6	24.3	22.2	20.2	18.1	16.1	14.1
130°	35.4	32.9	30.4	28.2	26.0	23.8	21.6	19.6	17.7	15.7	13.7
132.5°	34.0	31.8	29.6	27.3	25.2	23.1	21.1	19.1	17.2	15.2	13.3
135°	32.7	30.5	28.5	26.4	24.3	22.3	20.4	18.5	16.6	14.7	12.8
137.5°	31.6	29.5	27.3	25.4	23.4	21.5	19.6	17.8	16.0	14.2	12.4
140°	30.4	28.5	26.5	24.4	22.4	20.6	18.8	17.1	15.3	13.6	11.9
142.5°	29.1	27.3	25.5	23.8	21.9	19.9	18.0	16.3	14.7	13.0	11.4
145°	27.7	25.9	24.3	22.7	21.1	19.4	17.7	15.9	14.1	12.4	10.9
147.5°	25.4	24.1	22.9	21.4	19.9	18.4	16.9	15.3	13.8	12.2	10.6
150°	23.4	22.1	21.0	19.9	18.7	17.3	15.9	14.4	13.0	11.6	10.1
152.5°	21.8	20.6	19.4	18.1	16.9	15.8	14.7	13.5	12.2	10.8	9.5
155°	20.2	19.1	17.9	16.8	15.6	14.4	13.3	12.1	11.0	9.8	8.7
157.5°	18.2	17.4	16.4	15.4	14.3	13.3	12.2	11.1	10.0	8.9	7.8
160°	16.1	15.3	14.5	13.7	12.9	12.0	11.1	10.1	9.1	8.1	7.1
162.5°	14.0	13.3	12.7	11.9	11.2	10.4	9.6	8.8	8.0	7.2	6.3
165°	12.2	11.5	10.9	10.2	9.5	8.9	8.2	7.5	6.8	6.1	5.4
167.5°	10.3	9.8	9.3	8.7	8.1	7.5	6.9	6.3	5.7	5.1	4.5
170°	8.2	7.8	7.4	7.0	6.5	6.1	5.6	5.1	4.6	4.2	3.7
172.5°	6.1	5.8	5.5	5.2	4.9	4.5	4.2	3.8	3.5	3.1	2.7
175°	4.1	3.9	3.7	3.5	3.2	3.0	2.8	2.6	2.3	2.1	1.8
177.5°	2.1	2.0	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.0	0.9
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P232047

CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.8	0.7	0.5	0.4	0.3	0.1	0.0	0.1	0.3	0.4	0.5
5°	1.6	1.3	1.0	0.8	0.5	0.3	0.0	0.3	0.5	0.8	1.0
7.5°	2.4	2.0	1.6	1.2	0.8	0.4	0.0	0.4	0.8	1.2	1.6
10°	3.1	2.6	2.1	1.6	1.1	0.5	0.0	0.5	1.1	1.6	2.1
12.5°	3.8	3.2	2.6	1.9	1.3	0.6	0.0	0.6	1.3	1.9	2.6
15°	4.6	3.9	3.1	2.3	1.6	0.8	0.0	0.8	1.6	2.3	3.1
17.5°	5.4	4.5	3.6	2.7	1.8	0.9	0.0	0.9	1.8	2.7	3.6
20°	6.1	5.1	4.1	3.1	2.0	1.0	0.0	1.0	2.0	3.1	4.1
22.5°	6.7	5.6	4.5	3.4	2.2	1.1	0.0	1.1	2.2	3.4	4.5
25°	7.5	6.2	5.0	3.8	2.5	1.3	0.0	1.3	2.5	3.8	5.0
27.5°	8.1	6.8	5.4	4.1	2.7	1.4	0.0	1.4	2.7	4.1	5.4
30°	8.7	7.2	5.8	4.3	2.9	1.4	0.0	1.4	2.9	4.3	5.8
32.5°	9.0	7.5	5.9	4.4	3.0	1.5	0.0	1.5	3.0	4.4	5.9
35°	9.3	7.8	6.2	4.6	3.1	1.5	0.0	1.5	3.1	4.6	6.2
37.5°	9.8	8.1	6.5	4.9	3.2	1.6	0.0	1.6	3.2	4.9	6.5
40°	10.2	8.5	6.8	5.1	3.4	1.7	0.0	1.7	3.4	5.1	6.8
42.5°	10.6	8.8	7.0	5.3	3.5	1.8	0.0	1.8	3.5	5.3	7.0
45°	11.0	9.1	7.3	5.4	3.6	1.8	0.0	1.8	3.6	5.4	7.3
47.5°	11.3	9.4	7.5	5.6	3.7	1.9	0.0	1.9	3.7	5.6	7.5
50°	11.7	9.7	7.7	5.8	3.8	1.9	0.0	1.9	3.8	5.8	7.7
52.5°	12.0	10.0	7.9	5.9	3.9	2.0	0.0	2.0	3.9	5.9	7.9
55°	12.3	10.2	8.1	6.1	4.0	2.0	0.0	2.0	4.0	6.1	8.1
57.5°	12.6	10.3	8.0	5.9	3.8	1.9	0.0	1.9	3.8	5.9	8.0
60°	12.1	9.8	7.8	5.8	3.8	1.9	0.0	1.9	3.8	5.8	7.8
62.5°	11.7	9.9	7.6	5.5	3.5	1.7	0.0	1.7	3.5	5.5	7.6
65°	11.1	9.0	6.9	4.9	3.1	1.5	0.0	1.5	3.1	4.9	6.9
67.5°	10.2	8.0	6.2	4.6	3.3	2.1	0.9	2.1	3.3	4.6	6.2
70°	9.3	7.3	5.8	4.5	3.2	2.0	0.9	2.0	3.2	4.5	5.8
72.5°	8.5	6.7	5.3	4.1	2.9	1.9	0.9	1.9	2.9	4.1	5.3
75°	7.8	6.0	4.3	3.4	2.6	1.7	0.9	1.7	2.6	3.4	4.3
77.5°	6.8	4.6	3.3	2.2	1.0	0.2	0.0	0.2	1.0	2.2	3.3
80°	5.4	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
82.5°	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	4.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	5.4	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
102.5°	6.8	4.6	3.3	2.2	1.0	0.2	0.0	0.2	1.0	2.2	3.3
105°	7.8	6.0	4.3	3.4	2.6	1.7	0.9	1.7	2.6	3.4	4.3
107.5°	8.5	6.7	5.3	4.1	2.9	1.9	0.9	1.9	2.9	4.1	5.3
110°	9.3	7.3	5.8	4.5	3.2	2.0	0.9	2.0	3.2	4.5	5.8



TEST NUMBER: P232047

CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	10.2	8.0	6.2	4.6	3.3	2.1	0.9	2.1	3.3	4.6	6.2
115°	11.1	9.0	6.9	4.9	3.1	1.5	0.0	1.5	3.1	4.9	6.9
117.5°	11.7	9.9	7.6	5.5	3.5	1.7	0.0	1.7	3.5	5.5	7.6
120°	12.1	9.8	7.8	5.8	3.8	1.9	0.0	1.9	3.8	5.8	7.8
122.5°	12.6	10.3	8.0	5.9	3.8	1.9	0.0	1.9	3.8	5.9	8.0
125°	12.3	10.2	8.1	6.1	4.0	2.0	0.0	2.0	4.0	6.1	8.1
127.5°	12.0	10.0	7.9	5.9	3.9	2.0	0.0	2.0	3.9	5.9	7.9
130°	11.7	9.7	7.7	5.8	3.8	1.9	0.0	1.9	3.8	5.8	7.7
132.5°	11.3	9.4	7.5	5.6	3.7	1.9	0.0	1.9	3.7	5.6	7.5
135°	11.0	9.1	7.3	5.4	3.6	1.8	0.0	1.8	3.6	5.4	7.3
137.5°	10.6	8.8	7.0	5.3	3.5	1.8	0.0	1.8	3.5	5.3	7.0
140°	10.2	8.5	6.8	5.1	3.4	1.7	0.0	1.7	3.4	5.1	6.8
142.5°	9.8	8.1	6.5	4.9	3.2	1.6	0.0	1.6	3.2	4.9	6.5
145°	9.3	7.8	6.2	4.6	3.1	1.5	0.0	1.5	3.1	4.6	6.2
147.5°	9.0	7.5	5.9	4.4	3.0	1.5	0.0	1.5	3.0	4.4	5.9
150°	8.7	7.2	5.8	4.3	2.9	1.4	0.0	1.4	2.9	4.3	5.8
152.5°	8.1	6.8	5.4	4.1	2.7	1.4	0.0	1.4	2.7	4.1	5.4
155°	7.5	6.2	5.0	3.8	2.5	1.3	0.0	1.3	2.5	3.8	5.0
157.5°	6.7	5.6	4.5	3.4	2.2	1.1	0.0	1.1	2.2	3.4	4.5
160°	6.1	5.1	4.1	3.1	2.0	1.0	0.0	1.0	2.0	3.1	4.1
162.5°	5.4	4.5	3.6	2.7	1.8	0.9	0.0	0.9	1.8	2.7	3.6
165°	4.6	3.9	3.1	2.3	1.6	0.8	0.0	0.8	1.6	2.3	3.1
167.5°	3.8	3.2	2.6	1.9	1.3	0.6	0.0	0.6	1.3	1.9	2.6
170°	3.1	2.6	2.1	1.6	1.1	0.5	0.0	0.5	1.1	1.6	2.1
172.5°	2.4	2.0	1.6	1.2	0.8	0.4	0.0	0.4	0.8	1.2	1.6
175°	1.6	1.3	1.0	0.8	0.5	0.3	0.0	0.3	0.5	0.8	1.0
177.5°	0.8	0.7	0.5	0.4	0.3	0.1	0.0	0.1	0.3	0.4	0.5
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P232047

CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.7	0.8	0.9	1.0	1.2	1.3	1.4	1.5	1.6	1.7	1.8
5°	1.3	1.6	1.8	2.1	2.3	2.6	2.8	3.0	3.2	3.5	3.7
7.5°	2.0	2.4	2.7	3.1	3.5	3.8	4.2	4.5	4.9	5.2	5.5
10°	2.6	3.1	3.7	4.2	4.6	5.1	5.6	6.1	6.5	7.0	7.4
12.5°	3.2	3.8	4.5	5.1	5.7	6.3	6.9	7.5	8.1	8.7	9.3
15°	3.9	4.6	5.4	6.1	6.8	7.5	8.2	8.9	9.5	10.2	10.9
17.5°	4.5	5.4	6.3	7.2	8.0	8.8	9.6	10.4	11.2	11.9	12.7
20°	5.1	6.1	7.1	8.1	9.1	10.1	11.1	12.0	12.9	13.7	14.5
22.5°	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.3	15.4	16.4
25°	6.2	7.5	8.7	9.8	11.0	12.1	13.3	14.4	15.6	16.8	17.9
27.5°	6.8	8.1	9.5	10.8	12.2	13.5	14.7	15.8	16.9	18.1	19.4
30°	7.2	8.7	10.1	11.6	13.0	14.4	15.9	17.3	18.7	19.9	21.0
32.5°	7.5	9.0	10.6	12.2	13.8	15.3	16.9	18.4	19.9	21.4	22.9
35°	7.8	9.3	10.9	12.4	14.1	15.9	17.7	19.4	21.1	22.7	24.3
37.5°	8.1	9.8	11.4	13.0	14.7	16.3	18.0	19.9	21.9	23.8	25.5
40°	8.5	10.2	11.9	13.6	15.3	17.1	18.8	20.6	22.4	24.4	26.5
42.5°	8.8	10.6	12.4	14.2	16.0	17.8	19.6	21.5	23.4	25.4	27.3
45°	9.1	11.0	12.8	14.7	16.6	18.5	20.4	22.3	24.3	26.4	28.5
47.5°	9.4	11.3	13.3	15.2	17.2	19.1	21.1	23.1	25.2	27.3	29.6
50°	9.7	11.7	13.7	15.7	17.7	19.6	21.6	23.8	26.0	28.2	30.4
52.5°	10.0	12.0	14.1	16.1	18.1	20.2	22.2	24.3	26.6	29.1	31.5
55°	10.2	12.3	14.4	16.5	18.6	20.7	22.9	25.1	27.3	29.6	32.4
57.5°	10.3	12.6	14.7	16.8	19.0	21.2	23.5	25.8	28.1	30.4	33.0
60°	9.8	12.1	14.5	16.9	19.3	21.7	24.1	26.5	28.9	31.3	34.4
62.5°	9.9	11.7	13.9	16.6	19.3	22.0	24.7	27.2	29.8	32.8	36.2
65°	9.0	11.1	13.4	16.0	18.9	21.9	25.0	27.7	30.4	33.8	37.6
67.5°	8.0	10.2	12.6	15.2	18.3	21.6	24.5	27.5	30.7	34.4	38.6
70°	7.3	9.3	11.8	14.5	17.2	20.5	23.8	27.1	30.7	34.6	39.3
72.5°	6.7	8.5	10.9	13.6	16.4	19.2	22.9	26.6	30.4	34.7	39.7
75°	6.0	7.8	9.8	12.6	15.6	18.5	21.9	26.0	30.2	34.6	40.0
77.5°	4.6	6.8	8.9	11.7	14.9	18.3	21.1	25.5	29.9	34.7	40.4
80°	3.5	5.4	7.9	10.8	14.3	18.0	20.8	24.7	29.6	34.9	40.9
82.5°	2.2	4.4	7.0	10.0	13.3	16.7	20.0	24.0	29.3	35.1	41.6
85°	1.0	3.9	6.6	9.2	12.4	15.6	19.2	23.5	29.2	35.5	42.4
87.5°	0.3	4.0	6.7	8.9	11.9	14.9	18.5	23.3	29.3	36.1	43.6
90°	0.0	4.5	7.2	9.0	11.7	14.5	18.1	23.5	29.8	37.1	45.2
92.5°	0.3	4.0	6.7	8.9	11.9	14.9	18.5	23.3	29.3	36.1	43.6
95°	1.0	3.9	6.6	9.2	12.4	15.6	19.2	23.5	29.2	35.5	42.4
97.5°	2.2	4.4	7.0	10.0	13.3	16.7	20.0	24.0	29.3	35.1	41.6
100°	3.5	5.4	7.9	10.8	14.3	18.0	20.8	24.7	29.6	34.9	40.9
102.5°	4.6	6.8	8.9	11.7	14.9	18.3	21.1	25.5	29.9	34.7	40.4
105°	6.0	7.8	9.8	12.6	15.6	18.5	21.9	26.0	30.2	34.6	40.0
107.5°	6.7	8.5	10.9	13.6	16.4	19.2	22.9	26.6	30.4	34.7	39.7
110°	7.3	9.3	11.8	14.5	17.2	20.5	23.8	27.1	30.7	34.6	39.3



TEST NUMBER: P232047

CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-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°	8.0	10.2	12.6	15.2	18.3	21.6	24.5	27.5	30.7	34.4	38.6
115°	9.0	11.1	13.4	16.0	18.9	21.9	25.0	27.7	30.4	33.8	37.6
117.5°	9.9	11.7	13.9	16.6	19.3	22.0	24.7	27.2	29.8	32.8	36.2
120°	9.8	12.1	14.5	16.9	19.3	21.7	24.1	26.5	28.9	31.3	34.4
122.5°	10.3	12.6	14.7	16.8	19.0	21.2	23.5	25.8	28.1	30.4	33.0
125°	10.2	12.3	14.4	16.5	18.6	20.7	22.9	25.1	27.3	29.6	32.4
127.5°	10.0	12.0	14.1	16.1	18.1	20.2	22.2	24.3	26.6	29.1	31.5
130°	9.7	11.7	13.7	15.7	17.7	19.6	21.6	23.8	26.0	28.2	30.4
132.5°	9.4	11.3	13.3	15.2	17.2	19.1	21.1	23.1	25.2	27.3	29.6
135°	9.1	11.0	12.8	14.7	16.6	18.5	20.4	22.3	24.3	26.4	28.5
137.5°	8.8	10.6	12.4	14.2	16.0	17.8	19.6	21.5	23.4	25.4	27.3
140°	8.5	10.2	11.9	13.6	15.3	17.1	18.8	20.6	22.4	24.4	26.5
142.5°	8.1	9.8	11.4	13.0	14.7	16.3	18.0	19.9	21.9	23.8	25.5
145°	7.8	9.3	10.9	12.4	14.1	15.9	17.7	19.4	21.1	22.7	24.3
147.5°	7.5	9.0	10.6	12.2	13.8	15.3	16.9	18.4	19.9	21.4	22.9
150°	7.2	8.7	10.1	11.6	13.0	14.4	15.9	17.3	18.7	19.9	21.0
152.5°	6.8	8.1	9.5	10.8	12.2	13.5	14.7	15.8	16.9	18.1	19.4
155°	6.2	7.5	8.7	9.8	11.0	12.1	13.3	14.4	15.6	16.8	17.9
157.5°	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.3	15.4	16.4
160°	5.1	6.1	7.1	8.1	9.1	10.1	11.1	12.0	12.9	13.7	14.5
162.5°	4.5	5.4	6.3	7.2	8.0	8.8	9.6	10.4	11.2	11.9	12.7
165°	3.9	4.6	5.4	6.1	6.8	7.5	8.2	8.9	9.5	10.2	10.9
167.5°	3.2	3.8	4.5	5.1	5.7	6.3	6.9	7.5	8.1	8.7	9.3
170°	2.6	3.1	3.7	4.2	4.6	5.1	5.6	6.1	6.5	7.0	7.4
172.5°	2.0	2.4	2.7	3.1	3.5	3.8	4.2	4.5	4.9	5.2	5.5
175°	1.3	1.6	1.8	2.1	2.3	2.6	2.8	3.0	3.2	3.5	3.7
177.5°	0.7	0.8	0.9	1.0	1.2	1.3	1.4	1.5	1.6	1.7	1.8
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P232047

CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	2.0	2.1	2.2	2.2	2.3	2.4	2.5	2.6	2.7	2.7	2.8
5°	3.9	4.1	4.3	4.4	4.6	4.8	4.9	5.1	5.2	5.4	5.5
7.5°	5.8	6.1	6.4	6.7	6.9	7.2	7.4	7.6	7.8	8.0	8.2
10°	7.8	8.2	8.6	8.9	9.3	9.6	9.9	10.2	10.5	10.7	10.9
12.5°	9.8	10.3	10.7	11.2	11.6	12.0	12.4	12.8	13.1	13.4	13.7
15°	11.5	12.2	12.8	13.5	14.0	14.5	14.9	15.3	15.7	16.1	16.4
17.5°	13.3	14.0	14.7	15.4	16.1	16.8	17.4	17.9	18.4	18.8	19.2
20°	15.3	16.1	16.8	17.5	18.1	18.9	19.6	20.4	21.1	21.6	22.0
22.5°	17.4	18.2	19.0	19.8	20.5	21.2	21.8	22.6	23.4	24.2	24.8
25°	19.1	20.2	21.2	22.1	22.9	23.6	24.3	25.0	25.7	26.6	28.4
27.5°	20.6	21.8	23.0	24.2	25.3	26.1	27.6	29.3	31.2	33.3	35.8
30°	22.1	23.4	24.7	26.3	28.2	30.2	32.2	34.3	36.6	39.2	42.1
32.5°	24.1	25.4	26.9	28.8	30.8	33.1	35.7	38.3	41.1	44.3	47.7
35°	25.9	27.7	29.2	30.8	33.0	35.4	38.2	41.4	44.8	48.4	52.6
37.5°	27.3	29.1	31.0	32.9	34.9	37.4	40.3	43.7	47.6	52.0	56.6
40°	28.5	30.4	32.4	34.6	36.8	39.1	42.1	45.5	49.9	54.7	60.2
42.5°	29.5	31.6	33.7	35.9	38.3	40.9	43.7	47.4	51.6	57.0	63.1
45°	30.5	32.7	34.9	37.2	39.6	42.4	45.4	48.8	53.4	58.9	65.4
47.5°	31.8	34.0	36.2	38.5	40.9	43.7	46.9	50.5	55.0	60.3	67.6
50°	32.9	35.4	37.6	39.9	42.3	45.0	48.3	52.3	57.8	64.0	70.8
52.5°	33.8	36.6	39.1	41.5	43.8	48.2	53.1	58.5	64.0	69.5	75.0
55°	35.0	37.5	40.8	45.1	49.5	54.2	59.4	64.9	70.5	75.7	80.2
57.5°	36.2	40.0	44.6	49.7	54.7	60.0	65.5	71.3	77.1	82.5	86.5
60°	38.4	43.0	47.8	53.6	59.4	65.3	71.5	77.7	83.8	89.4	93.3
62.5°	40.2	45.3	50.8	56.9	63.8	70.3	77.2	84.0	90.5	96.4	100.7
65°	42.0	47.1	53.2	59.8	67.5	75.0	82.6	90.2	97.2	103.7	108.7
67.5°	43.4	48.8	55.3	62.6	70.7	79.4	87.8	96.3	104.0	111.0	116.0
70°	44.5	50.4	57.2	65.1	73.8	83.6	92.8	102.3	110.6	117.6	121.6
72.5°	45.5	51.7	58.9	67.4	76.7	86.6	95.8	104.5	111.9	117.6	121.1
75°	46.3	53.0	60.7	69.2	78.4	88.0	97.1	105.7	112.9	118.0	120.9
77.5°	47.2	54.4	62.3	71.1	80.4	89.8	98.9	107.2	114.2	118.9	121.1
80°	48.1	55.9	64.1	73.3	82.8	92.0	100.9	109.1	115.9	120.1	121.4
82.5°	49.1	57.5	66.1	75.7	85.5	94.7	103.3	111.2	117.8	121.5	122.0
85°	50.5	59.4	68.4	78.4	88.6	97.8	106.0	113.7	120.0	123.1	122.6
87.5°	52.1	61.6	71.1	81.4	92.0	101.1	108.9	116.4	122.3	124.8	123.2
90°	54.2	64.2	74.1	84.9	95.8	104.8	112.1	119.3	124.7	126.5	123.8
92.5°	52.1	61.6	71.1	81.4	92.0	101.1	108.9	116.4	122.3	124.8	123.2
95°	50.5	59.4	68.4	78.4	88.6	97.8	106.0	113.7	120.0	123.1	122.6
97.5°	49.1	57.5	66.1	75.7	85.5	94.7	103.3	111.2	117.8	121.5	122.0
100°	48.1	55.9	64.1	73.3	82.8	92.0	100.9	109.1	115.9	120.1	121.4
102.5°	47.2	54.4	62.3	71.1	80.4	89.8	98.9	107.2	114.2	118.9	121.1
105°	46.3	53.0	60.7	69.2	78.4	88.0	97.1	105.7	112.9	118.0	120.9
107.5°	45.5	51.7	58.9	67.4	76.7	86.6	95.8	104.5	111.9	117.6	121.1
110°	44.5	50.4	57.2	65.1	73.8	83.6	92.8	102.3	110.6	117.6	121.6



TEST NUMBER: P232047

CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	43.4	48.8	55.3	62.6	70.7	79.4	87.8	96.3	104.0	111.0	116.0
115°	42.0	47.1	53.2	59.8	67.5	75.0	82.6	90.2	97.2	103.7	108.7
117.5°	40.2	45.3	50.8	56.9	63.8	70.3	77.2	84.0	90.5	96.4	100.7
120°	38.4	43.0	47.8	53.6	59.4	65.3	71.5	77.7	83.8	89.4	93.3
122.5°	36.2	40.0	44.6	49.7	54.7	60.0	65.5	71.3	77.1	82.5	86.5
125°	35.0	37.5	40.8	45.1	49.5	54.2	59.4	64.9	70.5	75.7	80.2
127.5°	33.8	36.6	39.1	41.5	43.8	48.2	53.1	58.5	64.0	69.5	75.0
130°	32.9	35.4	37.6	39.9	42.3	45.0	48.3	52.3	57.8	64.0	70.8
132.5°	31.8	34.0	36.2	38.5	40.9	43.7	46.9	50.5	55.0	60.3	67.6
135°	30.5	32.7	34.9	37.2	39.6	42.4	45.4	48.8	53.4	58.9	65.4
137.5°	29.5	31.6	33.7	35.9	38.3	40.9	43.7	47.4	51.6	57.0	63.1
140°	28.5	30.4	32.4	34.6	36.8	39.1	42.1	45.5	49.9	54.7	60.2
142.5°	27.3	29.1	31.0	32.9	34.9	37.4	40.3	43.7	47.6	52.0	56.6
145°	25.9	27.7	29.2	30.8	33.0	35.4	38.2	41.4	44.8	48.4	52.6
147.5°	24.1	25.4	26.9	28.8	30.8	33.1	35.7	38.3	41.1	44.3	47.7
150°	22.1	23.4	24.7	26.3	28.2	30.2	32.2	34.3	36.6	39.2	42.1
152.5°	20.6	21.8	23.0	24.2	25.3	26.1	27.6	29.3	31.2	33.3	35.8
155°	19.1	20.2	21.2	22.1	22.9	23.6	24.3	25.0	25.7	26.6	28.4
157.5°	17.4	18.2	19.0	19.8	20.5	21.2	21.8	22.6	23.4	24.2	24.8
160°	15.3	16.1	16.8	17.5	18.1	18.9	19.6	20.4	21.1	21.6	22.0
162.5°	13.3	14.0	14.7	15.4	16.1	16.8	17.4	17.9	18.4	18.8	19.2
165°	11.5	12.2	12.8	13.5	14.0	14.5	14.9	15.3	15.7	16.1	16.4
167.5°	9.8	10.3	10.7	11.2	11.6	12.0	12.4	12.8	13.1	13.4	13.7
170°	7.8	8.2	8.6	8.9	9.3	9.6	9.9	10.2	10.5	10.7	10.9
172.5°	5.8	6.1	6.4	6.7	6.9	7.2	7.4	7.6	7.8	8.0	8.2
175°	3.9	4.1	4.3	4.4	4.6	4.8	4.9	5.1	5.2	5.4	5.5
177.5°	2.0	2.1	2.2	2.2	2.3	2.4	2.5	2.6	2.7	2.7	2.8
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P232047

CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	2.8	2.9	2.9	3.0	3.0	3.0	3.1	3.1	3.1	3.1	3.5
5°	5.6	5.7	5.8	5.9	6.0	6.1	6.1	6.2	6.2	6.2	7.0
7.5°	8.4	8.5	8.6	8.8	8.9	9.0	9.1	9.2	9.3	9.3	10.5
10°	11.1	11.3	11.5	11.6	11.8	12.0	12.1	12.3	12.4	12.4	13.9
12.5°	13.9	14.2	14.4	14.6	14.7	14.9	15.1	15.3	15.4	15.6	17.4
15°	16.7	17.0	17.3	17.5	17.7	17.8	18.1	18.3	18.5	18.7	20.8
17.5°	19.6	19.9	20.2	20.4	20.6	20.8	21.0	21.3	21.5	21.8	24.3
20°	22.4	22.7	23.1	23.3	23.6	23.8	23.9	24.3	24.6	24.9	27.7
22.5°	25.2	25.6	26.0	26.3	26.5	26.7	26.9	27.2	27.6	28.0	31.1
25°	30.1	31.6	33.0	34.2	35.1	35.8	36.3	36.7	37.2	37.4	40.6
27.5°	38.4	40.5	42.5	44.0	45.1	45.8	46.2	46.4	46.8	46.9	50.1
30°	45.5	48.9	51.4	53.8	55.0	56.0	56.2	56.3	56.4	56.3	59.5
32.5°	51.7	56.1	59.8	63.0	64.9	66.0	66.3	66.2	66.1	65.8	69.0
35°	57.1	62.4	67.8	71.7	74.8	76.0	76.5	76.1	75.8	75.2	78.3
37.5°	62.1	68.0	74.6	80.0	84.7	86.0	86.7	86.1	85.5	84.7	87.7
40°	66.3	73.0	80.7	87.9	93.3	96.0	97.0	96.2	95.2	94.1	97.0
42.5°	69.7	77.6	86.2	95.8	101.9	105.9	107.3	106.3	105.0	103.6	106.2
45°	73.0	81.6	91.1	101.8	110.1	115.9	117.3	116.4	114.8	113.0	115.4
47.5°	75.7	84.4	93.7	103.8	112.5	119.0	120.7	121.5	122.1	123.0	128.4
50°	78.0	85.7	94.2	103.4	112.6	120.1	123.1	126.0	129.2	133.1	141.7
52.5°	81.3	88.1	95.4	103.6	112.7	120.7	125.4	130.1	136.1	143.1	155.2
55°	85.6	91.2	97.3	104.2	112.8	121.3	127.4	133.9	142.8	153.1	168.8
57.5°	90.5	95.0	99.7	105.4	113.2	121.9	129.3	137.5	149.3	163.2	182.6
60°	96.1	99.5	103.0	107.3	113.9	122.5	131.0	140.8	155.7	173.2	196.6
62.5°	102.3	104.5	106.7	109.7	115.0	123.1	132.7	143.8	161.9	183.2	210.7
65°	109.1	110.1	111.0	112.5	116.3	123.8	134.2	146.7	168.0	193.3	224.9
67.5°	116.5	116.1	115.6	115.7	117.9	124.5	135.6	149.4	174.1	203.3	239.1
70°	121.1	118.8	116.9	115.8	117.2	123.1	134.4	147.8	172.3	201.5	237.9
72.5°	120.9	118.2	116.0	114.6	115.9	121.5	133.0	146.3	170.5	199.7	236.4
75°	120.6	117.6	115.1	113.4	114.7	119.9	131.7	144.8	168.8	197.9	236.2
77.5°	120.3	117.0	114.2	112.1	113.6	118.4	130.5	143.5	167.2	196.1	234.2
80°	120.0	116.5	113.2	110.8	112.4	116.9	129.4	142.2	165.6	194.3	232.2
82.5°	119.7	115.9	112.3	109.6	111.4	115.6	128.3	141.1	164.1	192.5	230.1
85°	119.3	115.3	111.3	108.3	110.3	114.3	127.4	140.1	162.7	190.7	228.1
87.5°	118.9	114.6	110.3	107.0	109.4	113.2	126.4	139.1	161.3	188.9	226.1
90°	118.4	113.9	109.3	105.7	108.4	112.1	125.6	138.3	160.0	187.1	224.1
92.5°	118.9	114.6	110.3	107.0	109.4	113.2	126.4	139.1	161.3	188.9	226.1
95°	119.3	115.3	111.3	108.3	110.3	114.3	127.4	140.1	162.7	190.7	228.1
97.5°	119.7	115.9	112.3	109.6	111.4	115.6	128.3	141.1	164.1	192.5	230.1
100°	120.0	116.5	113.2	110.8	112.4	116.9	129.4	142.2	165.6	194.3	232.2
102.5°	120.3	117.0	114.2	112.1	113.6	118.4	130.5	143.5	167.2	196.1	234.2
105°	120.6	117.6	115.1	113.4	114.7	119.9	131.7	144.8	168.8	197.9	236.2
107.5°	120.9	118.2	116.0	114.6	115.9	121.5	133.0	146.3	170.5	199.7	236.4
110°	121.1	118.8	116.9	115.8	117.2	123.1	134.4	147.8	172.3	201.5	237.9



TEST NUMBER: P232047

CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-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°	116.5	116.1	115.6	115.7	117.9	124.5	135.6	149.4	174.1	203.3	239.1
115°	109.1	110.1	111.0	112.5	116.3	123.8	134.2	146.7	168.0	193.3	224.9
117.5°	102.3	104.5	106.7	109.7	115.0	123.1	132.7	143.8	161.9	183.2	210.7
120°	96.1	99.5	103.0	107.3	113.9	122.5	131.0	140.8	155.7	173.2	196.6
122.5°	90.5	95.0	99.7	105.4	113.2	121.9	129.3	137.5	149.3	163.2	182.6
125°	85.6	91.2	97.3	104.2	112.8	121.3	127.4	133.9	142.8	153.1	168.8
127.5°	81.3	88.1	95.4	103.6	112.7	120.7	125.4	130.1	136.1	143.1	155.2
130°	78.0	85.7	94.2	103.4	112.6	120.1	123.1	126.0	129.2	133.1	141.7
132.5°	75.7	84.4	93.7	103.8	112.5	119.0	120.7	121.5	122.1	123.0	128.4
135°	73.0	81.6	91.1	101.8	110.1	115.9	117.3	116.4	114.8	113.0	115.4
137.5°	69.7	77.6	86.2	95.8	101.9	105.9	107.3	106.3	105.0	103.6	106.2
140°	66.3	73.0	80.7	87.9	93.3	96.0	97.0	96.2	95.2	94.1	97.0
142.5°	62.1	68.0	74.6	80.0	84.7	86.0	86.7	86.1	85.5	84.7	87.7
145°	57.1	62.4	67.8	71.7	74.8	76.0	76.5	76.1	75.8	75.2	78.3
147.5°	51.7	56.1	59.8	63.0	64.9	66.0	66.3	66.2	66.1	65.8	69.0
150°	45.5	48.9	51.4	53.8	55.0	56.0	56.2	56.3	56.4	56.3	59.5
152.5°	38.4	40.5	42.5	44.0	45.1	45.8	46.2	46.4	46.8	46.9	50.1
155°	30.1	31.6	33.0	34.2	35.1	35.8	36.3	36.7	37.2	37.4	40.6
157.5°	25.2	25.6	26.0	26.3	26.5	26.7	26.9	27.2	27.6	28.0	31.1
160°	22.4	22.7	23.1	23.3	23.6	23.8	23.9	24.3	24.6	24.9	27.7
162.5°	19.6	19.9	20.2	20.4	20.6	20.8	21.0	21.3	21.5	21.8	24.3
165°	16.7	17.0	17.3	17.5	17.7	17.8	18.1	18.3	18.5	18.7	20.8
167.5°	13.9	14.2	14.4	14.6	14.7	14.9	15.1	15.3	15.4	15.6	17.4
170°	11.1	11.3	11.5	11.6	11.8	12.0	12.1	12.3	12.4	12.4	13.9
172.5°	8.4	8.5	8.6	8.8	8.9	9.0	9.1	9.2	9.3	9.3	10.5
175°	5.6	5.7	5.8	5.9	6.0	6.1	6.1	6.2	6.2	6.2	7.0
177.5°	2.8	2.9	2.9	3.0	3.0	3.0	3.1	3.1	3.1	3.1	3.5
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P232047

CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	3.9	4.2	4.6	5.0	5.3	5.6	6.0	6.3	6.6	6.9	7.2
5°	7.7	8.5	9.2	9.9	10.6	11.2	11.9	12.5	13.1	13.7	14.2
7.5°	11.6	12.7	13.7	14.8	15.8	16.7	17.8	19.3	20.7	22.1	23.5
10°	15.4	16.8	18.2	19.6	21.0	23.1	25.1	27.1	29.0	30.8	32.7
12.5°	19.2	20.9	22.7	24.7	27.3	29.8	32.3	34.8	37.2	39.5	41.9
15°	22.9	25.0	27.2	30.4	33.5	36.5	39.5	42.4	45.2	48.0	51.1
17.5°	26.7	29.1	32.3	36.0	39.6	43.0	46.4	49.7	52.9	56.0	59.1
20°	30.4	33.2	37.4	41.5	45.5	49.3	53.0	56.7	60.2	63.7	67.1
22.5°	34.1	37.7	42.4	47.0	51.2	55.3	59.4	63.4	67.3	71.0	74.3
25°	43.6	47.6	52.2	56.6	60.5	64.3	68.0	71.5	74.7	77.2	80.7
27.5°	53.1	57.7	62.6	67.0	71.2	75.1	78.9	82.4	85.2	87.8	90.3
30°	62.6	67.7	72.8	77.2	81.9	85.6	89.4	92.5	95.3	98.0	100.6
32.5°	72.3	77.6	82.6	87.3	91.7	95.7	99.2	102.2	105.0	107.7	110.9
35°	81.9	87.3	92.4	97.2	101.4	105.7	108.6	111.6	114.3	117.2	121.0
37.5°	91.5	96.9	102.0	106.8	110.9	114.6	117.7	120.5	123.3	126.6	130.7
40°	100.9	106.3	111.4	116.1	120.1	123.4	126.4	128.9	131.8	135.1	141.4
42.5°	110.3	115.6	120.7	125.2	129.0	132.0	134.7	137.1	139.9	144.5	151.2
45°	119.6	124.8	129.9	134.0	137.5	140.3	142.6	144.9	147.4	153.5	161.0
47.5°	135.8	143.5	149.5	152.0	153.4	154.0	154.0	153.4	155.6	162.0	170.5
50°	152.8	163.5	171.5	173.5	174.0	174.3	174.4	173.7	175.4	179.0	184.3
52.5°	170.3	184.0	193.0	194.7	194.3	194.6	194.6	194.1	196.4	200.9	206.8
55°	188.2	204.8	214.4	215.5	214.3	215.0	214.8	215.0	217.3	222.3	227.9
57.5°	206.4	226.0	235.7	236.0	234.2	235.4	234.8	235.5	238.4	243.0	247.9
60°	225.0	247.4	256.8	256.3	254.4	255.7	254.8	255.7	259.0	262.7	266.4
62.5°	243.9	269.1	277.9	276.3	274.6	275.7	274.8	275.4	279.1	281.4	283.9
65°	263.0	291.0	298.9	296.2	294.8	295.7	294.8	295.4	298.7	299.0	300.1
67.5°	282.2	313.0	319.8	316.0	315.0	315.6	314.6	315.2	317.1	315.9	315.2
70°	282.5	316.5	327.2	327.0	327.8	328.6	328.6	330.3	332.1	331.1	329.4
72.5°	282.0	318.7	333.4	336.5	337.5	337.4	336.9	337.7	337.2	335.1	333.9
75°	281.4	320.8	340.1	346.5	347.0	346.2	345.0	344.6	342.1	338.8	337.4
77.5°	280.6	323.0	347.2	356.8	356.2	355.0	353.0	351.0	346.7	342.1	341.1
80°	281.1	325.1	354.6	367.4	365.3	363.7	360.9	357.1	351.1	345.3	344.7
82.5°	279.3	328.3	363.3	378.1	374.3	372.4	368.7	363.0	355.5	348.4	348.5
85°	277.4	329.5	370.2	389.3	383.1	381.0	376.4	368.6	359.8	351.5	352.2
87.5°	275.6	330.6	377.2	399.8	392.2	389.8	384.3	374.5	364.1	354.5	356.0
90°	273.8	331.7	384.1	410.3	401.2	398.5	392.2	380.5	368.7	357.9	359.7
92.5°	275.6	330.6	377.2	399.8	392.2	389.8	384.3	374.5	364.1	354.5	356.0
95°	277.4	329.5	370.2	389.3	383.1	381.0	376.4	368.6	359.8	351.5	352.2
97.5°	279.3	328.3	363.3	378.1	374.3	372.4	368.7	363.0	355.5	348.4	348.5
100°	281.1	325.1	354.6	367.4	365.3	363.7	360.9	357.1	351.1	345.3	344.7
102.5°	280.6	323.0	347.2	356.8	356.2	355.0	353.0	351.0	346.7	342.1	341.1
105°	281.4	320.8	340.1	346.5	347.0	346.2	345.0	344.6	342.1	338.8	337.4
107.5°	282.0	318.7	333.4	336.5	337.5	337.4	336.9	337.7	337.2	335.1	333.9
110°	282.5	316.5	327.2	327.0	327.8	328.6	328.6	330.3	332.1	331.1	329.4



TEST NUMBER: P232047

CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	282.2	313.0	319.8	316.0	315.0	315.6	314.6	315.2	317.1	315.9	315.2
115°	263.0	291.0	298.9	296.2	294.8	295.7	294.8	295.4	298.7	299.0	300.1
117.5°	243.9	269.1	277.9	276.3	274.6	275.7	274.8	275.4	279.1	281.4	283.9
120°	225.0	247.4	256.8	256.3	254.4	255.7	254.8	255.7	259.0	262.7	266.4
122.5°	206.4	226.0	235.7	236.0	234.2	235.4	234.8	235.5	238.4	243.0	247.9
125°	188.2	204.8	214.4	215.5	214.3	215.0	214.8	215.0	217.3	222.3	227.9
127.5°	170.3	184.0	193.0	194.7	194.3	194.6	194.6	194.1	196.4	200.9	206.8
130°	152.8	163.5	171.5	173.5	174.0	174.3	174.4	173.7	175.4	179.0	184.3
132.5°	135.8	143.5	149.5	152.0	153.4	154.0	154.0	153.4	155.6	162.0	170.5
135°	119.6	124.8	129.9	134.0	137.5	140.3	142.6	144.9	147.4	153.5	161.0
137.5°	110.3	115.6	120.7	125.2	129.0	132.0	134.7	137.1	139.9	144.5	151.2
140°	100.9	106.3	111.4	116.1	120.1	123.4	126.4	128.9	131.8	135.1	141.4
142.5°	91.5	96.9	102.0	106.8	110.9	114.6	117.7	120.5	123.3	126.6	130.7
145°	81.9	87.3	92.4	97.2	101.4	105.7	108.6	111.6	114.3	117.2	121.0
147.5°	72.3	77.6	82.6	87.3	91.7	95.7	99.2	102.2	105.0	107.7	110.9
150°	62.6	67.7	72.8	77.2	81.9	85.6	89.4	92.5	95.3	98.0	100.6
152.5°	53.1	57.7	62.6	67.0	71.2	75.1	78.9	82.4	85.2	87.8	90.3
155°	43.6	47.6	52.2	56.6	60.5	64.3	68.0	71.5	74.7	77.2	80.7
157.5°	34.1	37.7	42.4	47.0	51.2	55.3	59.4	63.4	67.3	71.0	74.3
160°	30.4	33.2	37.4	41.5	45.5	49.3	53.0	56.7	60.2	63.7	67.1
162.5°	26.7	29.1	32.3	36.0	39.6	43.0	46.4	49.7	52.9	56.0	59.1
165°	22.9	25.0	27.2	30.4	33.5	36.5	39.5	42.4	45.2	48.0	51.1
167.5°	19.2	20.9	22.7	24.7	27.3	29.8	32.3	34.8	37.2	39.5	41.9
170°	15.4	16.8	18.2	19.6	21.0	23.1	25.1	27.1	29.0	30.8	32.7
172.5°	11.6	12.7	13.7	14.8	15.8	16.7	17.8	19.3	20.7	22.1	23.5
175°	7.7	8.5	9.2	9.9	10.6	11.2	11.9	12.5	13.1	13.7	14.2
177.5°	3.9	4.2	4.6	5.0	5.3	5.6	6.0	6.3	6.6	6.9	7.2
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P232047

CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	7.4	7.7	7.9	8.1	8.3	8.5	8.7	8.8	9.0	9.1	9.2
5°	15.1	15.9	16.7	17.4	18.2	18.8	19.5	20.0	20.6	21.1	21.5
7.5°	24.8	26.0	27.2	28.3	29.4	30.5	31.6	32.5	33.5	34.3	35.1
10°	34.4	36.2	37.9	39.5	41.1	42.6	44.0	45.3	46.4	47.5	48.5
12.5°	44.1	46.3	48.4	50.3	52.1	53.9	55.5	57.1	58.6	60.0	61.4
15°	53.3	55.8	58.1	60.4	62.7	64.8	66.8	68.8	70.7	72.5	74.3
17.5°	62.0	65.2	67.5	70.1	72.6	75.1	77.7	80.4	83.1	85.7	88.2
20°	70.2	73.2	76.1	79.1	82.3	85.5	88.6	91.7	94.4	96.9	99.3
22.5°	77.5	80.8	84.2	87.7	91.3	94.9	98.3	101.5	104.6	107.5	109.8
25°	84.2	87.8	91.8	95.8	100.0	104.1	108.7	112.9	116.5	119.6	122.3
27.5°	92.8	95.6	99.3	104.3	110.4	116.5	122.5	126.6	130.7	134.2	137.4
30°	103.8	107.6	111.9	118.2	124.5	130.9	136.9	142.2	147.4	151.7	155.6
32.5°	114.7	119.6	126.3	133.1	140.0	146.7	153.9	160.7	166.2	170.6	174.6
35°	125.8	132.7	139.9	147.3	154.9	163.1	171.0	177.9	184.4	190.5	196.2
37.5°	137.6	145.0	152.9	161.4	170.3	178.8	186.8	194.6	202.9	211.4	219.5
40°	148.6	157.0	165.9	175.6	184.9	193.9	203.4	212.9	222.7	233.0	243.8
42.5°	159.6	168.6	179.0	189.2	199.2	210.1	220.8	232.0	244.1	256.5	269.9
45°	169.9	180.7	191.6	202.6	214.6	226.6	238.5	250.9	265.0	280.4	298.2
47.5°	180.8	192.1	204.1	216.8	230.1	242.6	255.5	270.0	287.0	305.9	331.0
50°	192.0	203.7	216.7	231.4	244.5	257.5	271.9	289.4	310.0	337.5	367.6
52.5°	213.9	222.4	233.3	244.7	258.3	271.5	288.4	309.2	337.8	370.5	407.6
55°	234.6	242.8	254.0	262.8	273.1	285.3	304.4	332.8	366.2	405.1	452.6
57.5°	253.6	261.6	270.4	279.4	289.9	305.4	327.5	356.3	395.8	444.8	498.4
60°	271.3	278.2	285.8	295.0	307.3	324.9	352.1	387.9	431.7	483.5	543.8
62.5°	287.6	293.1	300.0	309.1	323.7	346.6	378.2	418.3	469.4	527.0	594.0
65°	302.4	306.7	313.4	323.6	339.6	365.5	403.0	450.2	506.0	570.2	647.6
67.5°	315.6	319.2	325.7	337.1	356.5	386.3	427.1	477.7	539.4	614.8	697.2
70°	328.0	330.8	337.0	349.2	371.1	405.3	450.0	505.7	573.5	653.3	741.6
72.5°	335.1	340.0	348.0	361.3	384.2	423.4	468.7	529.6	604.0	685.7	777.3
75°	340.3	347.2	357.6	374.0	400.7	439.6	487.9	550.6	628.2	710.2	807.8
77.5°	345.8	354.6	366.9	385.9	415.8	457.2	509.9	575.7	650.9	733.9	831.1
80°	351.4	362.0	376.0	397.0	429.1	472.7	528.4	595.4	669.8	757.7	858.0
82.5°	357.0	369.5	384.8	407.3	440.5	486.3	543.4	609.9	683.1	775.4	877.4
85°	362.6	376.8	393.2	416.7	450.3	497.7	555.1	619.7	691.1	786.7	889.0
87.5°	368.2	384.0	401.4	425.7	459.3	508.1	565.0	626.9	696.2	794.9	896.6
90°	373.2	390.4	408.5	432.9	465.4	514.2	569.3	627.2	693.1	790.7	890.1
92.5°	368.2	384.0	401.4	425.7	459.3	508.1	565.0	626.9	696.2	794.9	896.6
95°	362.6	376.8	393.2	416.7	450.3	497.7	555.1	619.7	691.1	786.7	889.0
97.5°	357.0	369.5	384.8	407.3	440.5	486.3	543.4	609.9	683.1	775.4	877.4
100°	351.4	362.0	376.0	397.0	429.1	472.7	528.4	595.4	669.8	757.7	858.0
102.5°	345.8	354.6	366.9	385.9	415.8	457.2	509.9	575.7	650.9	733.9	831.1
105°	340.3	347.2	357.6	374.0	400.7	439.6	487.9	550.6	628.2	710.2	807.8
107.5°	335.1	340.0	348.0	361.3	384.2	423.4	468.7	529.6	604.0	685.7	777.3
110°	328.0	330.8	337.0	349.2	371.1	405.3	450.0	505.7	573.5	653.3	741.6



TEST NUMBER: P232047

CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-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°	315.6	319.2	325.7	337.1	356.5	386.3	427.1	477.7	539.4	614.8	697.2
115°	302.4	306.7	313.4	323.6	339.6	365.5	403.0	450.2	506.0	570.2	647.6
117.5°	287.6	293.1	300.0	309.1	323.7	346.6	378.2	418.3	469.4	527.0	594.0
120°	271.3	278.2	285.8	295.0	307.3	324.9	352.1	387.9	431.7	483.5	543.8
122.5°	253.6	261.6	270.4	279.4	289.9	305.4	327.5	356.3	395.8	444.8	498.4
125°	234.6	242.8	254.0	262.8	273.1	285.3	304.4	332.8	366.2	405.1	452.6
127.5°	213.9	222.4	233.3	244.7	258.3	271.5	288.4	309.2	337.8	370.5	407.6
130°	192.0	203.7	216.7	231.4	244.5	257.5	271.9	289.4	310.0	337.5	367.6
132.5°	180.8	192.1	204.1	216.8	230.1	242.6	255.5	270.0	287.0	305.9	331.0
135°	169.9	180.7	191.6	202.6	214.6	226.6	238.5	250.9	265.0	280.4	298.2
137.5°	159.6	168.6	179.0	189.2	199.2	210.1	220.8	232.0	244.1	256.5	269.9
140°	148.6	157.0	165.9	175.6	184.9	193.9	203.4	212.9	222.7	233.0	243.8
142.5°	137.6	145.0	152.9	161.4	170.3	178.8	186.8	194.6	202.9	211.4	219.5
145°	125.8	132.7	139.9	147.3	154.9	163.1	171.0	177.9	184.4	190.5	196.2
147.5°	114.7	119.6	126.3	133.1	140.0	146.7	153.9	160.7	166.2	170.6	174.6
150°	103.8	107.6	111.9	118.2	124.5	130.9	136.9	142.2	147.4	151.7	155.6
152.5°	92.8	95.6	99.3	104.3	110.4	116.5	122.5	126.6	130.7	134.2	137.4
155°	84.2	87.8	91.8	95.8	100.0	104.1	108.7	112.9	116.5	119.6	122.3
157.5°	77.5	80.8	84.2	87.7	91.3	94.9	98.3	101.5	104.6	107.5	109.8
160°	70.2	73.2	76.1	79.1	82.3	85.5	88.6	91.7	94.4	96.9	99.3
162.5°	62.0	65.2	67.5	70.1	72.6	75.1	77.7	80.4	83.1	85.7	88.2
165°	53.3	55.8	58.1	60.4	62.7	64.8	66.8	68.8	70.7	72.5	74.3
167.5°	44.1	46.3	48.4	50.3	52.1	53.9	55.5	57.1	58.6	60.0	61.4
170°	34.4	36.2	37.9	39.5	41.1	42.6	44.0	45.3	46.4	47.5	48.5
172.5°	24.8	26.0	27.2	28.3	29.4	30.5	31.6	32.5	33.5	34.3	35.1
175°	15.1	15.9	16.7	17.4	18.2	18.8	19.5	20.0	20.6	21.1	21.5
177.5°	7.4	7.7	7.9	8.1	8.3	8.5	8.7	8.8	9.0	9.1	9.2
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P232047

CATALOG NUMBER: FVS4WM-3-LD4-50-1STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	9.3	9.4	9.4	9.5	9.5	9.5	9.8	9.7	9.5	9.4	9.3
5°	21.9	22.2	22.5	22.8	23.0	23.1	23.2	23.2	23.6	23.4	23.1
7.5°	35.8	36.4	37.0	37.5	37.9	38.2	38.4	38.6	38.6	39.0	38.7
10°	49.4	50.2	50.9	51.5	52.0	52.5	52.8	53.0	53.1	53.6	53.2
12.5°	62.7	63.8	64.9	65.8	66.7	67.4	68.0	68.5	68.8	69.0	69.4
15°	76.3	78.1	79.9	81.5	82.9	84.3	85.4	86.4	87.3	87.9	88.8
17.5°	90.5	92.2	93.8	95.2	96.5	97.6	98.5	99.2	99.7	100.1	100.7
20°	101.4	103.2	104.5	105.4	106.1	106.4	106.5	106.3	105.9	105.4	104.8
22.5°	111.7	113.2	114.4	115.4	115.9	116.1	115.9	115.4	114.7	113.6	112.6
25°	124.5	126.2	127.4	128.3	128.8	128.7	128.2	127.3	125.9	124.3	122.3
27.5°	140.0	142.0	143.3	144.3	145.4	145.9	145.9	145.5	144.6	143.3	141.5
30°	158.2	160.9	163.0	164.6	167.2	169.3	170.9	171.9	172.3	172.0	171.1
32.5°	178.5	182.9	187.0	190.6	195.1	199.9	204.1	207.7	210.6	212.6	213.6
35°	201.6	208.4	215.6	222.5	229.4	236.9	243.7	249.7	254.7	258.7	261.5
37.5°	228.0	237.0	247.4	257.5	267.2	277.9	288.3	297.7	306.0	313.0	318.5
40°	256.1	268.1	281.8	295.9	309.7	325.0	341.2	355.8	368.8	379.9	388.8
42.5°	285.5	301.6	319.4	341.4	362.5	383.0	404.7	424.7	442.6	458.2	471.2
45°	317.6	342.5	366.8	394.4	421.9	451.0	477.4	505.1	530.2	552.3	571.0
47.5°	358.2	388.7	419.8	452.6	489.5	525.2	561.8	597.3	629.5	658.0	682.1
50°	402.4	438.7	480.1	520.2	564.9	610.3	655.8	703.1	745.8	783.2	814.9
52.5°	450.8	496.5	546.1	596.1	652.2	710.7	767.9	823.8	870.8	909.2	939.2
55°	502.7	558.0	617.3	684.3	752.8	826.7	894.2	947.8	988.7	1018.3	1038.0
57.5°	556.7	624.4	697.5	778.8	865.9	942.1	1017.4	1060.4	1086.5	1104.4	1114.9
60°	615.3	693.8	780.7	870.0	959.6	1038.2	1102.9	1142.9	1155.0	1164.0	1169.8
62.5°	672.8	761.5	855.9	952.4	1037.1	1109.6	1156.6	1189.3	1202.0	1211.2	1216.8
65°	731.1	821.6	923.0	1021.1	1103.6	1165.8	1205.1	1231.2	1242.6	1250.4	1257.0
67.5°	786.5	883.5	987.1	1088.1	1169.4	1221.0	1250.3	1263.7	1273.3	1284.5	1292.3
70°	836.6	941.2	1048.9	1154.4	1229.0	1263.1	1281.8	1294.4	1305.8	1312.6	1320.2
72.5°	879.6	988.4	1099.9	1197.1	1261.9	1292.7	1306.7	1319.2	1328.5	1334.1	1342.7
75°	914.1	1025.5	1136.3	1229.6	1287.5	1312.4	1328.1	1339.4	1347.3	1355.9	1362.2
77.5°	938.5	1051.9	1169.0	1258.9	1308.5	1332.0	1345.0	1352.1	1364.4	1373.7	1381.4
80°	963.8	1076.8	1193.7	1286.8	1332.1	1347.8	1353.3	1365.9	1377.5	1386.4	1397.0
82.5°	985.1	1102.5	1218.0	1302.3	1342.1	1353.7	1361.5	1375.7	1386.5	1405.1	1410.5
85°	997.8	1117.3	1233.4	1312.1	1344.0	1355.5	1367.5	1383.2	1392.0	1406.1	1417.3
87.5°	1006.1	1121.5	1238.8	1317.3	1345.0	1357.2	1369.6	1384.8	1390.4	1407.6	1417.8
90°	997.7	1115.2	1233.6	1315.8	1343.8	1358.3	1369.1	1382.7	1390.8	1411.6	1412.5
92.5°	1006.1	1121.5	1238.8	1317.3	1345.0	1357.2	1369.6	1384.8	1390.4	1407.6	1417.8
95°	997.8	1117.3	1233.4	1312.1	1344.0	1355.5	1367.5	1383.2	1392.0	1406.1	1417.3
97.5°	985.1	1102.5	1218.0	1302.3	1342.1	1353.7	1361.5	1375.7	1386.5	1405.1	1410.5
100°	963.8	1076.8	1193.7	1286.8	1332.1	1347.8	1353.3	1365.9	1377.5	1386.4	1397.0
102.5°	938.5	1051.9	1169.0	1258.9	1308.5	1332.0	1345.0	1352.1	1364.4	1373.7	1381.4
105°	914.1	1025.5	1136.3	1229.6	1287.5	1312.4	1328.1	1339.4	1347.3	1355.9	1362.2
107.5°	879.6	988.4	1099.9	1197.1	1261.9	1292.7	1306.7	1319.2	1328.5	1334.1	1342.7
110°	836.6	941.2	1048.9	1154.4	1229.0	1263.1	1281.8	1294.4	1305.8	1312.6	1320.2



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CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	786.5	883.5	987.1	1088.1	1169.4	1221.0	1250.3	1263.7	1273.3	1284.5	1292.3
115°	731.1	821.6	923.0	1021.1	1103.6	1165.8	1205.1	1231.2	1242.6	1250.4	1257.0
117.5°	672.8	761.5	855.9	952.4	1037.1	1109.6	1156.6	1189.3	1202.0	1211.2	1216.8
120°	615.3	693.8	780.7	870.0	959.6	1038.2	1102.9	1142.9	1155.0	1164.0	1169.8
122.5°	556.7	624.4	697.5	778.8	865.9	942.1	1017.4	1060.4	1086.5	1104.4	1114.9
125°	502.7	558.0	617.3	684.3	752.8	826.7	894.2	947.8	988.7	1018.3	1038.0
127.5°	450.8	496.5	546.1	596.1	652.2	710.7	767.9	823.8	870.8	909.2	939.2
130°	402.4	438.7	480.1	520.2	564.9	610.3	655.8	703.1	745.8	783.2	814.9
132.5°	358.2	388.7	419.8	452.6	489.5	525.2	561.8	597.3	629.5	658.0	682.1
135°	317.6	342.5	366.8	394.4	421.9	451.0	477.4	505.1	530.2	552.3	571.0
137.5°	285.5	301.6	319.4	341.4	362.5	383.0	404.7	424.7	442.6	458.2	471.2
140°	256.1	268.1	281.8	295.9	309.7	325.0	341.2	355.8	368.8	379.9	388.8
142.5°	228.0	237.0	247.4	257.5	267.2	277.9	288.3	297.7	306.0	313.0	318.5
145°	201.6	208.4	215.6	222.5	229.4	236.9	243.7	249.7	254.7	258.7	261.5
147.5°	178.5	182.9	187.0	190.6	195.1	199.9	204.1	207.7	210.6	212.6	213.6
150°	158.2	160.9	163.0	164.6	167.2	169.3	170.9	171.9	172.3	172.0	171.1
152.5°	140.0	142.0	143.3	144.3	145.4	145.9	145.9	145.5	144.6	143.3	141.5
155°	124.5	126.2	127.4	128.3	128.8	128.7	128.2	127.3	125.9	124.3	122.3
157.5°	111.7	113.2	114.4	115.4	115.9	116.1	115.9	115.4	114.7	113.6	112.6
160°	101.4	103.2	104.5	105.4	106.1	106.4	106.5	106.3	105.9	105.4	104.8
162.5°	90.5	92.2	93.8	95.2	96.5	97.6	98.5	99.2	99.7	100.1	100.7
165°	76.3	78.1	79.9	81.5	82.9	84.3	85.4	86.4	87.3	87.9	88.8
167.5°	62.7	63.8	64.9	65.8	66.7	67.4	68.0	68.5	68.8	69.0	69.4
170°	49.4	50.2	50.9	51.5	52.0	52.5	52.8	53.0	53.1	53.6	53.2
172.5°	35.8	36.4	37.0	37.5	37.9	38.2	38.4	38.6	38.6	39.0	38.7
175°	21.9	22.2	22.5	22.8	23.0	23.1	23.2	23.2	23.6	23.4	23.1
177.5°	9.3	9.4	9.4	9.5	9.5	9.5	9.8	9.7	9.5	9.4	9.3
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	0.0	0.0
2.5°	9.1	9.0
5°	22.9	22.6
7.5°	38.3	38.0
10°	52.8	52.4
12.5°	69.0	68.7
15°	88.7	88.6
17.5°	100.5	100.3
20°	103.9	103.0
22.5°	111.0	109.3
25°	120.1	117.5
27.5°	139.4	136.5
30°	169.9	167.2
32.5°	214.2	212.4
35°	263.7	263.0
37.5°	323.4	324.4
40°	396.7	399.4
42.5°	482.9	488.0
45°	588.2	596.4
47.5°	704.3	715.7
50°	843.8	858.5
52.5°	964.8	976.0
55°	1052.0	1053.7
57.5°	1121.1	1117.0
60°	1173.9	1170.3
62.5°	1218.5	1216.4
65°	1261.4	1262.5
67.5°	1296.4	1296.8
70°	1326.5	1330.2
72.5°	1347.2	1348.3
75°	1365.5	1365.5
77.5°	1387.3	1389.9
80°	1402.6	1406.2
82.5°	1412.6	1414.3
85°	1423.5	1425.1
87.5°	1423.8	1429.7
90°	1420.6	1426.9
92.5°	1423.8	1429.7
95°	1423.5	1425.1
97.5°	1412.6	1414.3
100°	1402.6	1406.2
102.5°	1387.3	1389.9
105°	1365.5	1365.5
107.5°	1347.2	1348.3
110°	1326.5	1330.2



TEST NUMBER: P232047

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CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1296.4	1296.8
115°	1261.4	1262.5
117.5°	1218.5	1216.4
120°	1173.9	1170.3
122.5°	1121.1	1117.0
125°	1052.0	1053.7
127.5°	964.8	976.0
130°	843.8	858.5
132.5°	704.3	715.7
135°	588.2	596.4
137.5°	482.9	488.0
140°	396.7	399.4
142.5°	323.4	324.4
145°	263.7	263.0
147.5°	214.2	212.4
150°	169.9	167.2
152.5°	139.4	136.5
155°	120.1	117.5
157.5°	111.0	109.3
160°	103.9	103.0
162.5°	100.5	100.3
165°	88.7	88.6
167.5°	69.0	68.7
170°	52.8	52.4
172.5°	38.3	38.0
175°	22.9	22.6
177.5°	9.1	9.0
180°	0.0	0.0

(END OF REPORT)