

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: P232051

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232051
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-LD4-50-1HI-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

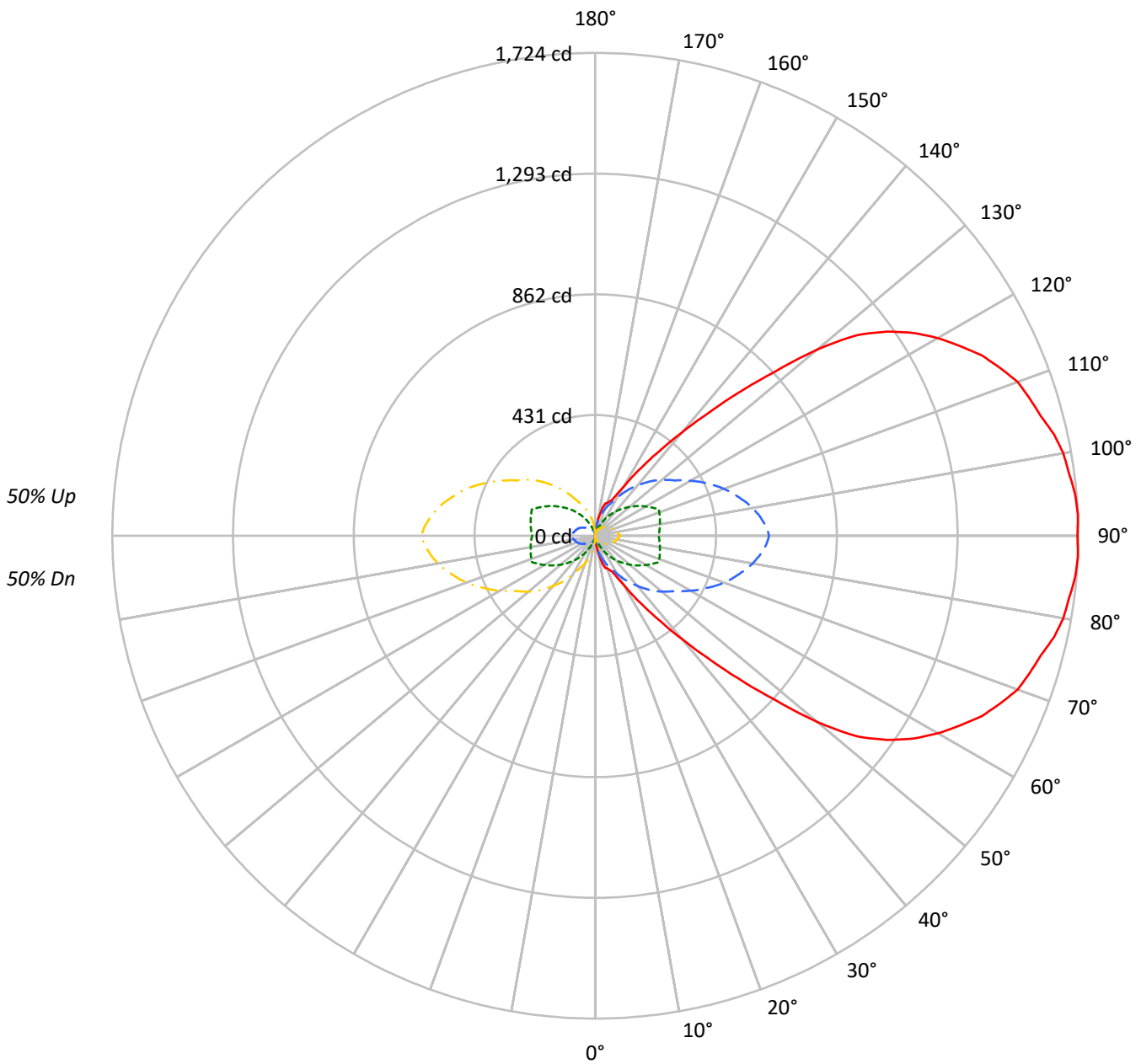
Lumens per Lamp: N/A
Luminaire Lumens: 3960.2 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 2.92' x L: 0.19' x H: 0.31')
CIE Type: General Diffuse

Input Watts (W): 36.3
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°	469	147	0	147
10°	976	294	0	294
15°	1504	446	0	446
20°	1621	605	0	605
25°	1732	935	0	935
30°	2335	1453	0	1453
35°	3517	2027	0	2027
40°	5161	2673	0	2673
45°	7509	3424	0	3424
50°	10617	4355	0	4355
55°	12902	5494	0	5494
60°	14296	6936	0	6936
65°	15504	8828	0	8828
70°	16549	10804	11	10804
75°	17346	12967	12	12967
80°	18392	16519	0	16519
85°	19360	23348	0	23348



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.0
10°-20°	12.6	0.3
20°-30°	33.9	0.9
30°-40°	78.0	2.0
40°-50°	154.7	3.9
50°-60°	276.3	7.0
60°-70°	402.2	10.2
70°-80°	488.2	12.3
80°-90°	532.4	13.4
90°-100°	532.4	13.4
100°-110°	488.2	12.3
110°-120°	402.2	10.2
120°-130°	276.3	7.0
130°-140°	154.7	3.9
140°-150°	78.0	2.0
150°-160°	33.9	0.9
160°-170°	12.6	0.3
170°-180°	1.7	0.0
0°-30°	48.2	1.2
0°-40°	126.2	3.2
0°-60°	557.2	14.1
0°-90°	1980.1	50.0
90°-120°	1422.9	35.9
90°-150°	1931.9	48.8
90°-180°	1980.0	50.0
0°-180°	3960.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	0	0	0	0	0	
5°	27	8	0	8	27	4
15°	107	22	0	22	107	30
25°	142	45	0	45	142	71
35°	317	91	0	91	317	209
45°	719	136	0	136	719	573
55°	1271	185	0	185	1271	1129
65°	1523	233	0	233	1523	1505
75°	1647	239	1	239	1647	1746
85°	1719	230	0	230	1719	1398
90°	1721	226	0	226	1721	944
95°	1719	230	0	230	1719	1398
105°	1647	239	1	239	1647	1746
115°	1523	233	0	233	1523	1505
125°	1271	185	0	185	1271	1129
135°	719	136	0	136	719	573
145°	317	91	0	91	317	209
155°	142	45	0	45	142	71
165°	107	22	0	22	107	30
175°	27	8	0	8	27	4
180°	0	0	0	0	0	



TEST NUMBER: P232051

CATALOG NUMBER: FVS4WM-3-LD4-50-1HI-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°	10.9	11.1	11.2	11.4	11.5	11.7	11.8	11.5	11.5	11.5	11.4
5°	27.2	27.5	27.8	28.1	28.4	28.0	27.9	27.8	27.7	27.4	27.1
7.5°	45.8	46.2	46.6	47.0	46.5	46.5	46.3	46.0	45.6	45.1	44.6
10°	63.2	63.7	64.1	64.6	64.0	63.9	63.6	63.3	62.8	62.1	61.4
12.5°	82.8	83.2	83.6	83.2	83.0	82.6	82.0	81.3	80.4	79.4	78.3
15°	106.8	106.9	107.1	106.0	105.2	104.2	103.0	101.6	100.0	98.2	96.3
17.5°	121.0	121.2	121.5	120.8	120.3	119.6	118.8	117.7	116.4	114.9	113.1
20°	124.3	125.4	126.5	127.2	127.8	128.3	128.5	128.4	128.0	127.2	126.1
22.5°	131.9	133.9	135.9	137.1	138.3	139.3	139.9	140.1	139.8	139.2	138.0
25°	141.7	144.8	147.4	149.8	151.9	153.5	154.7	155.3	155.3	154.8	153.7
27.5°	164.6	168.1	170.6	172.8	174.4	175.5	176.0	175.9	175.3	174.1	172.8
30°	201.6	204.9	206.4	207.5	207.7	207.2	206.0	204.1	201.6	198.5	196.6
32.5°	256.1	258.3	257.6	256.3	253.9	250.5	246.2	241.0	235.2	229.9	225.5
35°	317.2	318.0	315.4	312.0	307.2	301.1	293.9	285.7	276.7	268.4	260.0
37.5°	391.3	390.1	384.2	377.5	369.1	359.0	347.7	335.2	322.3	310.6	298.4
40°	481.8	478.5	469.0	458.2	444.9	429.2	411.5	392.0	373.5	356.9	339.9
42.5°	588.6	582.5	568.3	552.7	533.8	512.2	488.2	462.0	437.2	411.7	385.2
45°	719.4	709.5	688.8	666.2	639.5	609.2	575.8	544.0	508.8	475.7	442.5
47.5°	863.2	849.5	822.7	793.6	759.3	720.4	677.6	633.5	590.3	545.9	506.2
50°	1035.4	1017.7	982.8	944.6	899.5	848.1	791.1	736.2	681.4	627.5	579.0
52.5°	1177.1	1163.6	1132.7	1096.6	1050.3	993.5	926.1	857.2	786.7	719.1	658.7
55°	1270.9	1268.8	1252.0	1228.2	1192.4	1143.1	1078.5	997.1	907.9	825.4	744.5
57.5°	1347.2	1352.1	1344.6	1332.0	1310.4	1278.9	1227.1	1136.2	1044.3	939.3	841.2
60°	1411.5	1415.9	1410.9	1403.9	1393.0	1378.4	1330.1	1252.1	1157.4	1049.2	941.5
62.5°	1467.1	1469.6	1467.5	1460.8	1449.7	1434.4	1394.9	1338.2	1250.8	1148.6	1032.2
65°	1522.7	1521.3	1516.0	1508.1	1498.6	1484.9	1453.4	1406.0	1331.0	1231.5	1113.2
67.5°	1564.1	1563.6	1558.7	1549.2	1535.7	1524.1	1507.9	1472.7	1410.5	1312.4	1190.6
70°	1604.4	1599.9	1592.3	1583.1	1575.0	1561.2	1545.9	1523.4	1482.2	1392.3	1265.0
72.5°	1626.2	1624.9	1619.4	1609.1	1602.3	1591.0	1576.0	1559.1	1521.9	1443.8	1326.7
75°	1646.9	1646.9	1643.0	1635.4	1625.0	1615.5	1601.9	1582.8	1552.9	1483.0	1370.5
77.5°	1676.3	1673.2	1666.1	1656.9	1645.5	1630.8	1622.2	1606.5	1578.2	1518.3	1410.0
80°	1696.0	1691.7	1685.0	1672.1	1661.4	1647.5	1632.2	1625.6	1606.6	1551.9	1439.7
82.5°	1705.8	1703.8	1701.2	1694.7	1672.3	1659.2	1642.1	1632.7	1618.7	1570.6	1469.0
85°	1718.8	1716.9	1709.4	1695.9	1678.8	1668.3	1649.3	1634.8	1621.0	1582.5	1487.5
87.5°	1724.3	1717.3	1709.9	1697.7	1676.9	1670.2	1651.9	1636.9	1622.1	1588.8	1494.1
90°	1721.0	1713.4	1703.6	1702.5	1677.4	1667.6	1651.3	1638.2	1620.7	1587.0	1487.8
92.5°	1724.3	1717.3	1709.9	1697.7	1676.9	1670.2	1651.9	1636.9	1622.1	1588.8	1494.1
95°	1718.8	1716.9	1709.4	1695.9	1678.8	1668.3	1649.3	1634.8	1621.0	1582.5	1487.5
97.5°	1705.8	1703.8	1701.2	1694.7	1672.3	1659.2	1642.1	1632.7	1618.7	1570.6	1469.0
100°	1696.0	1691.7	1685.0	1672.1	1661.4	1647.5	1632.2	1625.6	1606.6	1551.9	1439.7
102.5°	1676.3	1673.2	1666.1	1656.9	1645.5	1630.8	1622.2	1606.5	1578.2	1518.3	1410.0
105°	1646.9	1646.9	1643.0	1635.4	1625.0	1615.5	1601.9	1582.8	1552.9	1483.0	1370.5
107.5°	1626.2	1624.9	1619.4	1609.1	1602.3	1591.0	1576.0	1559.1	1521.9	1443.8	1326.7
110°	1604.4	1599.9	1592.3	1583.1	1575.0	1561.2	1545.9	1523.4	1482.2	1392.3	1265.0



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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°	1564.1	1563.6	1558.7	1549.2	1535.7	1524.1	1507.9	1472.7	1410.5	1312.4	1190.6
115°	1522.7	1521.3	1516.0	1508.1	1498.6	1484.9	1453.4	1406.0	1331.0	1231.5	1113.2
117.5°	1467.1	1469.6	1467.5	1460.8	1449.7	1434.4	1394.9	1338.2	1250.8	1148.6	1032.2
120°	1411.5	1415.9	1410.9	1403.9	1393.0	1378.4	1330.1	1252.1	1157.4	1049.2	941.5
122.5°	1347.2	1352.1	1344.6	1332.0	1310.4	1278.9	1227.1	1136.2	1044.3	939.3	841.2
125°	1270.9	1268.8	1252.0	1228.2	1192.4	1143.1	1078.5	997.1	907.9	825.4	744.5
127.5°	1177.1	1163.6	1132.7	1096.6	1050.3	993.5	926.1	857.2	786.7	719.1	658.7
130°	1035.4	1017.7	982.8	944.6	899.5	848.1	791.1	736.2	681.4	627.5	579.0
132.5°	863.2	849.5	822.7	793.6	759.3	720.4	677.6	633.5	590.3	545.9	506.2
135°	719.4	709.5	688.8	666.2	639.5	609.2	575.8	544.0	508.8	475.7	442.5
137.5°	588.6	582.5	568.3	552.7	533.8	512.2	488.2	462.0	437.2	411.7	385.2
140°	481.8	478.5	469.0	458.2	444.9	429.2	411.5	392.0	373.5	356.9	339.9
142.5°	391.3	390.1	384.2	377.5	369.1	359.0	347.7	335.2	322.3	310.6	298.4
145°	317.2	318.0	315.4	312.0	307.2	301.1	293.9	285.7	276.7	268.4	260.0
147.5°	256.1	258.3	257.6	256.3	253.9	250.5	246.2	241.0	235.2	229.9	225.5
150°	201.6	204.9	206.4	207.5	207.7	207.2	206.0	204.1	201.6	198.5	196.6
152.5°	164.6	168.1	170.6	172.8	174.4	175.5	176.0	175.9	175.3	174.1	172.8
155°	141.7	144.8	147.4	149.8	151.9	153.5	154.7	155.3	155.3	154.8	153.7
157.5°	131.9	133.9	135.9	137.1	138.3	139.3	139.9	140.1	139.8	139.2	138.0
160°	124.3	125.4	126.5	127.2	127.8	128.3	128.5	128.4	128.0	127.2	126.1
162.5°	121.0	121.2	121.5	120.8	120.3	119.6	118.8	117.7	116.4	114.9	113.1
165°	106.8	106.9	107.1	106.0	105.2	104.2	103.0	101.6	100.0	98.2	96.3
167.5°	82.8	83.2	83.6	83.2	83.0	82.6	82.0	81.3	80.4	79.4	78.3
170°	63.2	63.7	64.1	64.6	64.0	63.9	63.6	63.3	62.8	62.1	61.4
172.5°	45.8	46.2	46.6	47.0	46.5	46.5	46.3	46.0	45.6	45.1	44.6
175°	27.2	27.5	27.8	28.1	28.4	28.0	27.9	27.8	27.7	27.4	27.1
177.5°	10.9	11.1	11.2	11.4	11.5	11.7	11.8	11.5	11.5	11.5	11.4
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°	11.4	11.3	11.2	11.0	10.9	10.7	10.5	10.3	10.1	9.8	9.6
5°	26.8	26.4	25.9	25.4	24.8	24.2	23.5	22.7	21.9	21.1	20.2
7.5°	43.9	43.1	42.3	41.4	40.3	39.2	38.0	36.8	35.4	34.1	32.8
10°	60.5	59.6	58.5	57.3	56.0	54.6	53.0	51.3	49.5	47.7	45.7
12.5°	77.0	75.6	74.0	72.4	70.7	68.9	67.0	65.0	62.9	60.6	58.3
15°	94.2	92.0	89.6	87.4	85.3	83.0	80.6	78.1	75.6	72.9	70.1
17.5°	111.2	109.1	106.4	103.3	100.2	97.0	93.7	90.6	87.6	84.6	81.4
20°	124.5	122.3	119.7	116.9	113.8	110.5	106.9	103.1	99.2	95.4	91.8
22.5°	136.6	134.8	132.5	129.7	126.2	122.5	118.6	114.4	110.1	105.8	101.6
25°	152.3	150.3	147.6	144.3	140.5	136.2	131.1	125.6	120.7	115.5	110.8
27.5°	171.2	168.9	165.7	161.9	157.7	152.7	147.7	140.5	133.2	125.8	119.8
30°	194.0	190.8	187.6	182.9	177.7	171.6	165.2	157.9	150.2	142.6	134.9
32.5°	220.6	215.2	210.6	205.8	200.3	193.8	185.6	176.9	168.8	160.5	152.4
35°	251.3	243.1	236.6	229.7	222.4	214.5	206.1	196.7	186.9	177.7	168.7
37.5°	285.8	275.0	264.8	254.9	244.7	234.7	225.2	215.6	205.4	194.6	184.5
40°	323.4	308.9	294.0	281.0	268.6	256.7	245.2	233.8	223.0	211.7	200.1
42.5°	363.7	344.4	325.6	309.3	294.4	279.8	266.3	253.3	240.2	228.2	215.8
45°	413.1	383.1	359.7	338.3	319.7	302.6	287.7	273.3	258.7	244.3	231.1
47.5°	468.8	432.1	399.2	368.9	346.2	325.7	308.2	292.6	277.5	261.4	246.1
50°	529.1	485.3	443.4	407.0	373.9	349.1	328.0	310.6	294.9	279.0	261.4
52.5°	598.8	543.7	491.6	446.9	407.4	372.9	347.9	327.5	311.5	295.1	281.3
55°	673.0	606.4	545.8	488.6	441.7	401.4	367.2	344.2	329.4	316.9	306.3
57.5°	753.1	671.4	601.1	536.4	477.3	429.8	395.0	368.4	349.7	337.0	326.0
60°	836.7	742.1	655.8	583.1	520.6	467.8	424.7	391.9	370.7	355.8	344.7
62.5°	918.4	811.5	716.4	635.6	566.1	504.4	456.1	418.0	390.4	372.8	361.8
65°	990.9	881.8	781.1	687.7	610.3	543.0	486.0	440.8	409.5	390.3	378.0
67.5°	1065.6	948.5	840.8	741.5	650.6	576.1	515.1	465.9	429.9	406.6	392.9
70°	1135.1	1009.1	894.4	787.9	691.7	609.9	542.8	488.9	447.5	421.2	406.4
72.5°	1192.0	1060.9	937.5	827.0	728.4	638.8	565.4	510.7	463.3	435.7	419.7
75°	1236.9	1102.4	974.4	856.5	757.5	664.2	588.4	530.2	483.2	451.0	431.3
77.5°	1268.8	1131.8	1002.4	885.2	785.0	694.3	615.1	551.4	501.5	465.4	442.5
80°	1298.8	1162.4	1034.9	913.9	807.8	718.1	637.4	570.2	517.5	478.8	453.5
82.5°	1329.7	1188.1	1058.2	935.2	823.9	735.6	655.5	586.5	531.3	491.2	464.1
85°	1347.6	1203.5	1072.3	948.9	833.6	747.4	669.5	600.3	543.2	502.6	474.2
87.5°	1352.6	1213.5	1081.5	958.8	839.8	756.0	681.5	612.8	553.9	513.4	484.1
90°	1345.0	1203.3	1073.6	953.7	836.0	756.4	686.7	620.2	561.3	522.1	492.7
92.5°	1352.6	1213.5	1081.5	958.8	839.8	756.0	681.5	612.8	553.9	513.4	484.1
95°	1347.6	1203.5	1072.3	948.9	833.6	747.4	669.5	600.3	543.2	502.6	474.2
97.5°	1329.7	1188.1	1058.2	935.2	823.9	735.6	655.5	586.5	531.3	491.2	464.1
100°	1298.8	1162.4	1034.9	913.9	807.8	718.1	637.4	570.2	517.5	478.8	453.5
102.5°	1268.8	1131.8	1002.4	885.2	785.0	694.3	615.1	551.4	501.5	465.4	442.5
105°	1236.9	1102.4	974.4	856.5	757.5	664.2	588.4	530.2	483.2	451.0	431.3
107.5°	1192.0	1060.9	937.5	827.0	728.4	638.8	565.4	510.7	463.3	435.7	419.7
110°	1135.1	1009.1	894.4	787.9	691.7	609.9	542.8	488.9	447.5	421.2	406.4



TEST NUMBER: P232051

CATALOG NUMBER: FVS4WM-3-LD4-50-1HI-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°	1065.6	948.5	840.8	741.5	650.6	576.1	515.1	465.9	429.9	406.6	392.9
115°	990.9	881.8	781.1	687.7	610.3	543.0	486.0	440.8	409.5	390.3	378.0
117.5°	918.4	811.5	716.4	635.6	566.1	504.4	456.1	418.0	390.4	372.8	361.8
120°	836.7	742.1	655.8	583.1	520.6	467.8	424.7	391.9	370.7	355.8	344.7
122.5°	753.1	671.4	601.1	536.4	477.3	429.8	395.0	368.4	349.7	337.0	326.0
125°	673.0	606.4	545.8	488.6	441.7	401.4	367.2	344.2	329.4	316.9	306.3
127.5°	598.8	543.7	491.6	446.9	407.4	372.9	347.9	327.5	311.5	295.1	281.3
130°	529.1	485.3	443.4	407.0	373.9	349.1	328.0	310.6	294.9	279.0	261.4
132.5°	468.8	432.1	399.2	368.9	346.2	325.7	308.2	292.6	277.5	261.4	246.1
135°	413.1	383.1	359.7	338.3	319.7	302.6	287.7	273.3	258.7	244.3	231.1
137.5°	363.7	344.4	325.6	309.3	294.4	279.8	266.3	253.3	240.2	228.2	215.8
140°	323.4	308.9	294.0	281.0	268.6	256.7	245.2	233.8	223.0	211.7	200.1
142.5°	285.8	275.0	264.8	254.9	244.7	234.7	225.2	215.6	205.4	194.6	184.5
145°	251.3	243.1	236.6	229.7	222.4	214.5	206.1	196.7	186.9	177.7	168.7
147.5°	220.6	215.2	210.6	205.8	200.3	193.8	185.6	176.9	168.8	160.5	152.4
150°	194.0	190.8	187.6	182.9	177.7	171.6	165.2	157.9	150.2	142.6	134.9
152.5°	171.2	168.9	165.7	161.9	157.7	152.7	147.7	140.5	133.2	125.8	119.8
155°	152.3	150.3	147.6	144.3	140.5	136.2	131.1	125.6	120.7	115.5	110.8
157.5°	136.6	134.8	132.5	129.7	126.2	122.5	118.6	114.4	110.1	105.8	101.6
160°	124.5	122.3	119.7	116.9	113.8	110.5	106.9	103.1	99.2	95.4	91.8
162.5°	111.2	109.1	106.4	103.3	100.2	97.0	93.7	90.6	87.6	84.6	81.4
165°	94.2	92.0	89.6	87.4	85.3	83.0	80.6	78.1	75.6	72.9	70.1
167.5°	77.0	75.6	74.0	72.4	70.7	68.9	67.0	65.0	62.9	60.6	58.3
170°	60.5	59.6	58.5	57.3	56.0	54.6	53.0	51.3	49.5	47.7	45.7
172.5°	43.9	43.1	42.3	41.4	40.3	39.2	38.0	36.8	35.4	34.1	32.8
175°	26.8	26.4	25.9	25.4	24.8	24.2	23.5	22.7	21.9	21.1	20.2
177.5°	11.4	11.3	11.2	11.0	10.9	10.7	10.5	10.3	10.1	9.8	9.6
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: P232051

CATALOG NUMBER: FVS4WM-3-LD4-50-1HI-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°	9.3	9.0	8.6	8.3	8.0	7.6	7.2	6.8	6.4	6.0	5.6
5°	19.2	18.2	17.2	16.5	15.8	15.1	14.4	13.6	12.8	11.9	11.1
7.5°	31.3	29.9	28.3	26.7	25.0	23.3	21.5	20.2	19.1	17.8	16.6
10°	43.6	41.5	39.4	37.2	35.0	32.7	30.3	27.9	25.4	23.7	22.0
12.5°	55.8	53.2	50.5	47.7	44.8	41.9	39.0	36.0	33.0	29.8	27.4
15°	67.3	64.3	61.6	57.9	54.6	51.1	47.6	44.0	40.4	36.7	32.9
17.5°	78.6	74.8	71.3	67.6	63.9	60.0	56.0	51.9	47.7	43.4	39.0
20°	88.3	84.7	80.9	76.9	72.7	68.4	64.0	59.5	55.0	50.1	45.1
22.5°	97.5	93.5	89.6	85.6	81.1	76.4	71.6	66.8	61.8	56.7	51.2
25°	105.9	101.6	97.4	93.2	90.0	86.2	82.0	77.6	73.1	68.3	63.0
27.5°	115.3	111.9	109.0	106.0	102.8	99.4	95.2	90.6	85.9	80.9	75.5
30°	129.7	125.2	121.3	118.2	115.0	111.6	107.9	103.2	98.8	93.2	87.9
32.5°	144.3	138.4	133.8	129.9	126.7	123.3	119.7	115.4	110.6	105.3	99.7
35°	160.1	151.8	145.9	141.4	137.8	134.6	131.0	127.5	122.4	117.2	111.4
37.5°	174.8	166.0	157.6	152.6	148.8	145.3	141.9	138.2	133.8	128.9	123.0
40°	189.3	179.2	170.6	163.0	159.0	155.5	152.4	148.9	144.9	140.1	134.4
42.5°	203.4	192.5	182.3	174.3	168.8	165.3	162.4	159.2	155.6	151.0	145.7
45°	217.9	205.0	194.2	185.1	177.8	174.7	172.0	169.3	165.8	161.7	156.7
47.5°	231.7	218.0	205.7	195.4	187.7	185.0	185.7	185.7	185.0	183.4	180.4
50°	245.7	231.5	222.3	215.8	211.5	209.5	210.3	210.2	209.9	209.2	206.8
52.5°	268.2	258.0	249.4	242.4	236.8	234.1	234.7	234.7	234.4	234.8	232.8
55°	292.8	282.9	274.9	268.1	262.1	259.4	259.1	259.3	258.5	260.0	258.6
57.5°	315.4	305.9	299.0	293.1	287.5	284.1	283.2	283.9	282.5	284.7	284.2
60°	335.5	327.1	321.3	316.8	312.4	308.4	307.3	308.4	306.8	309.1	309.8
62.5°	353.5	346.9	342.3	339.3	336.6	332.2	331.5	332.5	331.2	333.3	335.2
65°	369.9	364.6	361.9	360.6	360.2	356.3	355.6	356.6	355.6	357.3	360.5
67.5°	385.0	380.6	380.1	380.9	382.4	380.2	379.5	380.6	380.0	381.1	385.7
70°	399.0	395.6	397.2	399.3	400.4	398.4	396.3	396.3	395.4	394.5	394.6
72.5°	410.1	404.1	402.6	404.1	406.7	407.3	406.4	407.0	407.1	405.9	402.1
75°	418.8	410.4	406.9	408.5	412.6	415.5	416.2	417.6	418.5	417.9	410.2
77.5°	427.7	417.0	411.3	412.6	418.1	423.3	425.8	428.2	429.7	430.4	418.7
80°	436.7	423.8	415.7	416.4	423.5	430.7	435.3	438.7	440.6	443.1	427.6
82.5°	445.7	430.6	420.2	420.2	428.7	437.8	444.7	449.2	451.5	456.1	438.1
85°	454.5	437.3	424.8	423.9	433.9	444.5	453.9	459.6	462.1	469.5	446.5
87.5°	463.2	444.1	429.3	427.5	439.1	451.7	463.5	470.2	473.0	482.2	454.8
90°	470.9	450.1	433.8	431.6	444.7	458.9	473.0	480.7	483.9	494.8	463.2
92.5°	463.2	444.1	429.3	427.5	439.1	451.7	463.5	470.2	473.0	482.2	454.8
95°	454.5	437.3	424.8	423.9	433.9	444.5	453.9	459.6	462.1	469.5	446.5
97.5°	445.7	430.6	420.2	420.2	428.7	437.8	444.7	449.2	451.5	456.1	438.1
100°	436.7	423.8	415.7	416.4	423.5	430.7	435.3	438.7	440.6	443.1	427.6
102.5°	427.7	417.0	411.3	412.6	418.1	423.3	425.8	428.2	429.7	430.4	418.7
105°	418.8	410.4	406.9	408.5	412.6	415.5	416.2	417.6	418.5	417.9	410.2
107.5°	410.1	404.1	402.6	404.1	406.7	407.3	406.4	407.0	407.1	405.9	402.1
110°	399.0	395.6	397.2	399.3	400.4	398.4	396.3	396.3	395.4	394.5	394.6



TEST NUMBER: P232051

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

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	385.0	380.6	380.1	380.9	382.4	380.2	379.5	380.6	380.0	381.1	385.7
115°	369.9	364.6	361.9	360.6	360.2	356.3	355.6	356.6	355.6	357.3	360.5
117.5°	353.5	346.9	342.3	339.3	336.6	332.2	331.5	332.5	331.2	333.3	335.2
120°	335.5	327.1	321.3	316.8	312.4	308.4	307.3	308.4	306.8	309.1	309.8
122.5°	315.4	305.9	299.0	293.1	287.5	284.1	283.2	283.9	282.5	284.7	284.2
125°	292.8	282.9	274.9	268.1	262.1	259.4	259.1	259.3	258.5	260.0	258.6
127.5°	268.2	258.0	249.4	242.4	236.8	234.1	234.7	234.7	234.4	234.8	232.8
130°	245.7	231.5	222.3	215.8	211.5	209.5	210.3	210.2	209.9	209.2	206.8
132.5°	231.7	218.0	205.7	195.4	187.7	185.0	185.7	185.7	185.0	183.4	180.4
135°	217.9	205.0	194.2	185.1	177.8	174.7	172.0	169.3	165.8	161.7	156.7
137.5°	203.4	192.5	182.3	174.3	168.8	165.3	162.4	159.2	155.6	151.0	145.7
140°	189.3	179.2	170.6	163.0	159.0	155.5	152.4	148.9	144.9	140.1	134.4
142.5°	174.8	166.0	157.6	152.6	148.8	145.3	141.9	138.2	133.8	128.9	123.0
145°	160.1	151.8	145.9	141.4	137.8	134.6	131.0	127.5	122.4	117.2	111.4
147.5°	144.3	138.4	133.8	129.9	126.7	123.3	119.7	115.4	110.6	105.3	99.7
150°	129.7	125.2	121.3	118.2	115.0	111.6	107.9	103.2	98.8	93.2	87.9
152.5°	115.3	111.9	109.0	106.0	102.8	99.4	95.2	90.6	85.9	80.9	75.5
155°	105.9	101.6	97.4	93.2	90.0	86.2	82.0	77.6	73.1	68.3	63.0
157.5°	97.5	93.5	89.6	85.6	81.1	76.4	71.6	66.8	61.8	56.7	51.2
160°	88.3	84.7	80.9	76.9	72.7	68.4	64.0	59.5	55.0	50.1	45.1
162.5°	78.6	74.8	71.3	67.6	63.9	60.0	56.0	51.9	47.7	43.4	39.0
165°	67.3	64.3	61.6	57.9	54.6	51.1	47.6	44.0	40.4	36.7	32.9
167.5°	55.8	53.2	50.5	47.7	44.8	41.9	39.0	36.0	33.0	29.8	27.4
170°	43.6	41.5	39.4	37.2	35.0	32.7	30.3	27.9	25.4	23.7	22.0
172.5°	31.3	29.9	28.3	26.7	25.0	23.3	21.5	20.2	19.1	17.8	16.6
175°	19.2	18.2	17.2	16.5	15.8	15.1	14.4	13.6	12.8	11.9	11.1
177.5°	9.3	9.0	8.6	8.3	8.0	7.6	7.2	6.8	6.4	6.0	5.6
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: P232051

CATALOG NUMBER: FVS4WM-3-LD4-50-1HI-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°	5.1	4.7	4.2	3.8	3.7	3.7	3.7	3.7	3.6	3.6	3.5
5°	10.2	9.3	8.4	7.5	7.5	7.4	7.4	7.3	7.2	7.1	7.0
7.5°	15.3	14.0	12.6	11.3	11.2	11.1	11.0	10.9	10.8	10.6	10.4
10°	20.3	18.6	16.8	15.0	14.9	14.8	14.6	14.5	14.3	14.0	13.9
12.5°	25.3	23.2	21.0	18.8	18.6	18.4	18.2	18.0	17.7	17.6	17.4
15°	30.2	27.7	25.1	22.5	22.3	22.1	21.8	21.5	21.3	21.1	20.8
17.5°	35.1	32.2	29.3	26.3	26.0	25.7	25.3	25.1	24.9	24.6	24.3
20°	40.1	36.7	33.4	30.0	29.7	29.3	28.8	28.7	28.4	28.2	27.8
22.5°	45.6	41.2	37.5	33.8	33.4	32.8	32.4	32.3	32.0	31.7	31.3
25°	57.5	52.6	49.0	45.2	44.8	44.3	43.8	43.2	42.4	41.2	39.9
27.5°	69.7	64.1	60.4	56.6	56.4	56.0	55.7	55.3	54.4	53.1	51.2
30°	81.7	75.5	71.8	67.9	68.0	67.9	67.8	67.5	66.3	64.9	62.0
32.5°	93.6	87.2	83.2	79.3	79.7	79.8	80.0	79.6	78.3	75.9	72.2
35°	105.3	98.8	94.5	90.7	91.3	91.8	92.2	91.7	90.2	86.4	81.8
37.5°	116.9	110.3	105.7	102.1	103.1	103.9	104.6	103.7	102.2	96.5	90.0
40°	128.3	121.7	116.9	113.4	114.8	116.0	117.0	115.8	112.6	106.1	97.3
42.5°	139.5	133.0	128.1	124.8	126.6	128.1	129.4	127.8	122.9	115.6	104.0
45°	150.6	144.2	139.2	136.2	138.4	140.3	141.5	139.8	132.9	122.8	109.9
47.5°	173.0	163.8	154.9	148.3	147.3	146.5	145.5	143.5	135.7	125.2	113.0
50°	197.2	184.3	170.9	160.4	155.8	151.9	148.5	144.8	135.8	124.8	113.6
52.5°	221.9	205.4	187.1	172.5	164.1	156.9	151.2	145.5	136.0	124.9	115.1
55°	247.1	227.0	203.6	184.6	172.2	161.6	153.7	146.3	136.1	125.7	117.3
57.5°	272.6	249.0	220.2	196.8	180.1	165.8	156.0	147.0	136.6	127.1	120.3
60°	298.4	271.4	237.1	208.9	187.7	169.8	158.1	147.8	137.4	129.5	124.2
62.5°	324.6	294.1	254.1	221.0	195.3	173.5	160.0	148.5	138.7	132.3	128.7
65°	351.0	317.2	271.2	233.1	202.7	176.9	161.8	149.3	140.3	135.7	133.8
67.5°	377.5	340.4	288.4	245.2	209.9	180.2	163.5	150.2	142.2	139.5	139.5
70°	381.7	340.8	286.9	243.0	207.8	178.3	162.1	148.5	141.4	139.6	141.0
72.5°	384.3	340.2	285.1	240.8	205.7	176.4	160.5	146.5	139.8	138.2	139.9
75°	387.0	339.4	284.8	238.7	203.6	174.7	158.9	144.6	138.4	136.7	138.8
77.5°	389.6	338.4	282.4	236.5	201.6	173.0	157.5	142.8	137.0	135.2	137.7
80°	392.1	339.0	280.0	234.3	199.8	171.6	156.1	141.1	135.6	133.7	136.6
82.5°	396.0	336.9	277.6	232.1	197.9	170.2	154.8	139.4	134.4	132.1	135.5
85°	397.3	334.7	275.1	230.0	196.2	168.9	153.6	137.9	133.1	130.6	134.3
87.5°	398.7	332.5	272.7	227.8	194.5	167.8	152.5	136.5	131.9	129.0	133.1
90°	400.0	330.3	270.3	225.6	192.9	166.8	151.5	135.2	130.8	127.5	131.9
92.5°	398.7	332.5	272.7	227.8	194.5	167.8	152.5	136.5	131.9	129.0	133.1
95°	397.3	334.7	275.1	230.0	196.2	168.9	153.6	137.9	133.1	130.6	134.3
97.5°	396.0	336.9	277.6	232.1	197.9	170.2	154.8	139.4	134.4	132.1	135.5
100°	392.1	339.0	280.0	234.3	199.8	171.6	156.1	141.1	135.6	133.7	136.6
102.5°	389.6	338.4	282.4	236.5	201.6	173.0	157.5	142.8	137.0	135.2	137.7
105°	387.0	339.4	284.8	238.7	203.6	174.7	158.9	144.6	138.4	136.7	138.8
107.5°	384.3	340.2	285.1	240.8	205.7	176.4	160.5	146.5	139.8	138.2	139.9
110°	381.7	340.8	286.9	243.0	207.8	178.3	162.1	148.5	141.4	139.6	141.0



TEST NUMBER: P232051

CATALOG NUMBER: FVS4WM-3-LD4-50-1HI-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°	377.5	340.4	288.4	245.2	209.9	180.2	163.5	150.2	142.2	139.5	139.5
115°	351.0	317.2	271.2	233.1	202.7	176.9	161.8	149.3	140.3	135.7	133.8
117.5°	324.6	294.1	254.1	221.0	195.3	173.5	160.0	148.5	138.7	132.3	128.7
120°	298.4	271.4	237.1	208.9	187.7	169.8	158.1	147.8	137.4	129.5	124.2
122.5°	272.6	249.0	220.2	196.8	180.1	165.8	156.0	147.0	136.6	127.1	120.3
125°	247.1	227.0	203.6	184.6	172.2	161.6	153.7	146.3	136.1	125.7	117.3
127.5°	221.9	205.4	187.1	172.5	164.1	156.9	151.2	145.5	136.0	124.9	115.1
130°	197.2	184.3	170.9	160.4	155.8	151.9	148.5	144.8	135.8	124.8	113.6
132.5°	173.0	163.8	154.9	148.3	147.3	146.5	145.5	143.5	135.7	125.2	113.0
135°	150.6	144.2	139.2	136.2	138.4	140.3	141.5	139.8	132.9	122.8	109.9
137.5°	139.5	133.0	128.1	124.8	126.6	128.1	129.4	127.8	122.9	115.6	104.0
140°	128.3	121.7	116.9	113.4	114.8	116.0	117.0	115.8	112.6	106.1	97.3
142.5°	116.9	110.3	105.7	102.1	103.1	103.9	104.6	103.7	102.2	96.5	90.0
145°	105.3	98.8	94.5	90.7	91.3	91.8	92.2	91.7	90.2	86.4	81.8
147.5°	93.6	87.2	83.2	79.3	79.7	79.8	80.0	79.6	78.3	75.9	72.2
150°	81.7	75.5	71.8	67.9	68.0	67.9	67.8	67.5	66.3	64.9	62.0
152.5°	69.7	64.1	60.4	56.6	56.4	56.0	55.7	55.3	54.4	53.1	51.2
155°	57.5	52.6	49.0	45.2	44.8	44.3	43.8	43.2	42.4	41.2	39.9
157.5°	45.6	41.2	37.5	33.8	33.4	32.8	32.4	32.3	32.0	31.7	31.3
160°	40.1	36.7	33.4	30.0	29.7	29.3	28.8	28.7	28.4	28.2	27.8
162.5°	35.1	32.2	29.3	26.3	26.0	25.7	25.3	25.1	24.9	24.6	24.3
165°	30.2	27.7	25.1	22.5	22.3	22.1	21.8	21.5	21.3	21.1	20.8
167.5°	25.3	23.2	21.0	18.8	18.6	18.4	18.2	18.0	17.7	17.6	17.4
170°	20.3	18.6	16.8	15.0	14.9	14.8	14.6	14.5	14.3	14.0	13.9
172.5°	15.3	14.0	12.6	11.3	11.2	11.1	11.0	10.9	10.8	10.6	10.4
175°	10.2	9.3	8.4	7.5	7.5	7.4	7.4	7.3	7.2	7.1	7.0
177.5°	5.1	4.7	4.2	3.8	3.7	3.7	3.7	3.7	3.6	3.6	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: P232051

CATALOG NUMBER: FVS4WM-3-LD4-50-1HI-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°	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6
5°	6.9	6.8	6.6	6.5	6.3	6.1	6.0	5.8	5.6	5.4	5.1
7.5°	10.2	10.1	9.9	9.7	9.5	9.2	8.9	8.7	8.4	8.1	7.7
10°	13.7	13.4	13.2	12.9	12.6	12.3	11.9	11.6	11.2	10.8	10.3
12.5°	17.1	16.8	16.5	16.2	15.8	15.4	15.0	14.5	14.0	13.5	12.9
15°	20.5	20.2	19.8	19.4	19.0	18.5	18.0	17.4	16.9	16.2	15.5
17.5°	24.0	23.6	23.2	22.7	22.2	21.6	21.0	20.3	19.4	18.6	17.7
20°	27.4	27.0	26.5	26.0	25.4	24.6	23.7	22.8	21.9	21.1	20.3
22.5°	30.9	30.4	29.9	29.2	28.3	27.3	26.3	25.5	24.7	23.9	22.9
25°	38.1	36.3	34.3	32.1	31.0	30.2	29.4	28.5	27.6	26.6	25.6
27.5°	48.9	46.3	43.2	40.1	37.6	35.4	33.3	31.5	30.5	29.2	27.8
30°	59.0	54.9	50.8	47.3	44.2	41.4	38.8	36.4	34.0	31.7	29.8
32.5°	67.7	62.4	57.6	53.4	49.6	46.2	43.0	39.9	37.1	34.7	32.4
35°	75.3	68.9	63.5	58.4	54.0	49.9	46.1	42.7	39.8	37.2	35.2
37.5°	82.0	74.9	68.3	62.7	57.4	52.7	48.5	45.1	42.1	39.7	37.4
40°	88.0	79.9	72.6	66.0	60.2	54.9	50.8	47.2	44.4	41.7	39.0
42.5°	93.6	84.1	76.1	68.8	62.2	57.1	52.7	49.3	46.2	43.2	40.6
45°	98.5	88.1	78.8	71.0	64.3	58.9	54.8	51.1	47.8	44.8	42.1
47.5°	101.8	91.4	81.4	72.7	66.3	60.9	56.5	52.7	49.4	46.3	43.6
50°	103.4	94.1	85.3	77.2	69.8	63.1	58.2	54.3	51.0	48.1	45.3
52.5°	106.3	98.0	90.4	83.8	77.2	70.5	64.1	58.1	52.8	50.0	47.1
55°	110.0	103.2	96.7	91.4	85.0	78.3	71.6	65.3	59.6	54.3	49.2
57.5°	114.6	109.2	104.3	99.5	93.0	86.0	79.0	72.3	65.9	59.9	53.7
60°	119.9	115.9	112.6	107.8	101.1	93.6	86.2	78.8	71.6	64.6	57.6
62.5°	126.0	123.4	121.5	116.3	109.1	101.2	93.1	84.8	76.8	68.5	61.2
65°	132.8	131.6	131.0	125.1	117.2	108.8	99.6	90.4	81.3	72.1	64.2
67.5°	140.0	140.5	139.9	133.8	125.4	116.2	105.9	95.7	85.3	75.5	66.7
70°	143.3	146.1	146.6	141.8	133.3	123.4	111.9	100.7	89.0	78.5	69.0
72.5°	142.6	145.8	146.0	141.8	134.9	126.1	115.5	104.4	92.5	81.2	71.1
75°	141.9	145.4	145.9	142.3	136.1	127.4	117.1	106.1	94.5	83.5	73.2
77.5°	141.1	145.1	146.0	143.4	137.8	129.3	119.2	108.3	97.0	85.8	75.2
80°	140.4	144.8	146.5	144.8	139.8	131.5	121.7	111.0	99.8	88.4	77.4
82.5°	139.7	144.4	147.1	146.5	142.1	134.2	124.5	114.2	103.1	91.3	79.8
85°	139.0	143.9	147.8	148.5	144.7	137.1	127.8	117.9	106.8	94.6	82.6
87.5°	138.2	143.4	148.6	150.5	147.5	140.4	131.3	122.0	111.0	98.3	85.7
90°	137.3	142.8	149.3	152.6	150.4	143.9	135.2	126.4	115.5	102.5	89.4
92.5°	138.2	143.4	148.6	150.5	147.5	140.4	131.3	122.0	111.0	98.3	85.7
95°	139.0	143.9	147.8	148.5	144.7	137.1	127.8	117.9	106.8	94.6	82.6
97.5°	139.7	144.4	147.1	146.5	142.1	134.2	124.5	114.2	103.1	91.3	79.8
100°	140.4	144.8	146.5	144.8	139.8	131.5	121.7	111.0	99.8	88.4	77.4
102.5°	141.1	145.1	146.0	143.4	137.8	129.3	119.2	108.3	97.0	85.8	75.2
105°	141.9	145.4	145.9	142.3	136.1	127.4	117.1	106.1	94.5	83.5	73.2
107.5°	142.6	145.8	146.0	141.8	134.9	126.1	115.5	104.4	92.5	81.2	71.1
110°	143.3	146.1	146.6	141.8	133.3	123.4	111.9	100.7	89.0	78.5	69.0



TEST NUMBER: P232051

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

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	140.0	140.5	139.9	133.8	125.4	116.2	105.9	95.7	85.3	75.5	66.7
115°	132.8	131.6	131.0	125.1	117.2	108.8	99.6	90.4	81.3	72.1	64.2
117.5°	126.0	123.4	121.5	116.3	109.1	101.2	93.1	84.8	76.8	68.5	61.2
120°	119.9	115.9	112.6	107.8	101.1	93.6	86.2	78.8	71.6	64.6	57.6
122.5°	114.6	109.2	104.3	99.5	93.0	86.0	79.0	72.3	65.9	59.9	53.7
125°	110.0	103.2	96.7	91.4	85.0	78.3	71.6	65.3	59.6	54.3	49.2
127.5°	106.3	98.0	90.4	83.8	77.2	70.5	64.1	58.1	52.8	50.0	47.1
130°	103.4	94.1	85.3	77.2	69.8	63.1	58.2	54.3	51.0	48.1	45.3
132.5°	101.8	91.4	81.4	72.7	66.3	60.9	56.5	52.7	49.4	46.3	43.6
135°	98.5	88.1	78.8	71.0	64.3	58.9	54.8	51.1	47.8	44.8	42.1
137.5°	93.6	84.1	76.1	68.8	62.2	57.1	52.7	49.3	46.2	43.2	40.6
140°	88.0	79.9	72.6	66.0	60.2	54.9	50.8	47.2	44.4	41.7	39.0
142.5°	82.0	74.9	68.3	62.7	57.4	52.7	48.5	45.1	42.1	39.7	37.4
145°	75.3	68.9	63.5	58.4	54.0	49.9	46.1	42.7	39.8	37.2	35.2
147.5°	67.7	62.4	57.6	53.4	49.6	46.2	43.0	39.9	37.1	34.7	32.4
150°	59.0	54.9	50.8	47.3	44.2	41.4	38.8	36.4	34.0	31.7	29.8
152.5°	48.9	46.3	43.2	40.1	37.6	35.4	33.3	31.5	30.5	29.2	27.8
155°	38.1	36.3	34.3	32.1	31.0	30.2	29.4	28.5	27.6	26.6	25.6
157.5°	30.9	30.4	29.9	29.2	28.3	27.3	26.3	25.5	24.7	23.9	22.9
160°	27.4	27.0	26.5	26.0	25.4	24.6	23.7	22.8	21.9	21.1	20.3
162.5°	24.0	23.6	23.2	22.7	22.2	21.6	21.0	20.3	19.4	18.6	17.7
165°	20.5	20.2	19.8	19.4	19.0	18.5	18.0	17.4	16.9	16.2	15.5
167.5°	17.1	16.8	16.5	16.2	15.8	15.4	15.0	14.5	14.0	13.5	12.9
170°	13.7	13.4	13.2	12.9	12.6	12.3	11.9	11.6	11.2	10.8	10.3
172.5°	10.2	10.1	9.9	9.7	9.5	9.2	8.9	8.7	8.4	8.1	7.7
175°	6.9	6.8	6.6	6.5	6.3	6.1	6.0	5.8	5.6	5.4	5.1
177.5°	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6
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: P232051

CATALOG NUMBER: FVS4WM-3-LD4-50-1HI-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°	2.5	2.4	2.2	2.1	2.0	1.8	1.7	1.5	1.4	1.2	1.1
5°	4.9	4.7	4.4	4.2	3.9	3.6	3.4	3.1	2.8	2.5	2.2
7.5°	7.4	7.0	6.7	6.3	5.9	5.5	5.1	4.6	4.2	3.7	3.3
10°	9.9	9.4	8.9	8.4	7.9	7.3	6.8	6.2	5.6	5.0	4.4
12.5°	12.4	11.8	11.2	10.5	9.8	9.1	8.4	7.6	6.9	6.2	5.4
15°	14.7	13.9	13.1	12.3	11.5	10.7	9.9	9.1	8.2	7.4	6.5
17.5°	16.9	16.1	15.3	14.4	13.5	12.6	11.6	10.7	9.7	8.6	7.6
20°	19.4	18.5	17.5	16.6	15.5	14.5	13.4	12.2	11.0	9.8	8.6
22.5°	22.0	20.9	19.8	18.6	17.3	16.0	14.7	13.4	12.1	10.8	9.4
25°	24.3	23.0	21.6	20.2	18.8	17.4	16.0	14.6	13.2	11.8	10.4
27.5°	26.3	24.8	23.3	21.8	20.4	19.1	17.7	16.2	14.7	13.1	11.4
30°	28.2	26.6	25.3	23.9	22.5	20.8	19.1	17.4	15.7	13.9	12.2
32.5°	30.6	29.1	27.6	25.8	24.0	22.1	20.3	18.5	16.6	14.7	12.8
35°	33.4	31.3	29.2	27.3	25.4	23.4	21.3	19.1	17.0	15.0	13.1
37.5°	35.1	32.9	30.8	28.7	26.3	24.0	21.7	19.7	17.7	15.7	13.7
40°	36.6	34.3	31.9	29.4	27.0	24.8	22.7	20.6	18.5	16.4	14.3
42.5°	38.1	35.5	32.9	30.6	28.3	25.9	23.7	21.4	19.2	17.1	14.9
45°	39.4	36.8	34.3	31.9	29.3	26.9	24.6	22.3	20.0	17.7	15.4
47.5°	40.9	38.4	35.6	32.9	30.4	27.9	25.4	23.0	20.7	18.3	15.9
50°	42.6	39.7	36.7	34.0	31.4	28.6	26.0	23.6	21.3	18.9	16.4
52.5°	44.0	40.7	38.0	35.1	32.1	29.3	26.8	24.3	21.8	19.4	16.9
55°	45.2	42.2	39.1	35.7	32.9	30.2	27.5	24.9	22.3	19.8	17.3
57.5°	48.3	43.7	39.8	36.7	33.8	31.1	28.3	25.6	22.9	20.2	17.6
60°	51.9	46.3	41.6	37.8	34.9	31.9	29.0	26.2	23.3	20.4	17.5
62.5°	54.6	48.5	43.7	39.5	35.9	32.8	29.8	26.5	23.3	20.0	16.9
65°	56.8	50.6	45.4	40.8	36.7	33.4	30.1	26.4	22.9	19.3	16.2
67.5°	58.8	52.3	46.6	41.4	37.1	33.2	29.5	26.1	22.1	18.3	15.2
70°	60.8	53.7	47.4	41.7	37.0	32.7	28.7	24.7	20.7	17.4	14.2
72.5°	62.4	54.9	47.9	41.8	36.7	32.1	27.6	23.1	19.7	16.4	13.2
75°	64.0	55.9	48.2	41.7	36.4	31.4	26.4	22.3	18.8	15.3	11.9
77.5°	65.6	56.9	48.7	41.9	36.2	30.7	25.4	22.0	18.0	14.1	10.8
80°	67.4	57.9	49.4	42.1	35.7	29.9	25.1	21.6	17.3	13.1	9.5
82.5°	69.4	59.2	50.2	42.4	35.4	29.0	24.1	20.1	16.1	12.1	8.4
85°	71.6	60.8	51.2	42.8	35.2	28.4	23.2	18.8	15.0	11.1	7.9
87.5°	74.3	62.9	52.6	43.5	35.4	28.1	22.3	17.9	14.4	10.8	8.1
90°	77.4	65.4	54.5	44.7	36.0	28.3	21.8	17.4	14.2	10.9	8.7
92.5°	74.3	62.9	52.6	43.5	35.4	28.1	22.3	17.9	14.4	10.8	8.1
95°	71.6	60.8	51.2	42.8	35.2	28.4	23.2	18.8	15.0	11.1	7.9
97.5°	69.4	59.2	50.2	42.4	35.4	29.0	24.1	20.1	16.1	12.1	8.4
100°	67.4	57.9	49.4	42.1	35.7	29.9	25.1	21.6	17.3	13.1	9.5
102.5°	65.6	56.9	48.7	41.9	36.2	30.7	25.4	22.0	18.0	14.1	10.8
105°	64.0	55.9	48.2	41.7	36.4	31.4	26.4	22.3	18.8	15.3	11.9
107.5°	62.4	54.9	47.9	41.8	36.7	32.1	27.6	23.1	19.7	16.4	13.2
110°	60.8	53.7	47.4	41.7	37.0	32.7	28.7	24.7	20.7	17.4	14.2



TEST NUMBER: P232051

CATALOG NUMBER: FVS4WM-3-LD4-50-1HI-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°	58.8	52.3	46.6	41.4	37.1	33.2	29.5	26.1	22.1	18.3	15.2
115°	56.8	50.6	45.4	40.8	36.7	33.4	30.1	26.4	22.9	19.3	16.2
117.5°	54.6	48.5	43.7	39.5	35.9	32.8	29.8	26.5	23.3	20.0	16.9
120°	51.9	46.3	41.6	37.8	34.9	31.9	29.0	26.2	23.3	20.4	17.5
122.5°	48.3	43.7	39.8	36.7	33.8	31.1	28.3	25.6	22.9	20.2	17.6
125°	45.2	42.2	39.1	35.7	32.9	30.2	27.5	24.9	22.3	19.8	17.3
127.5°	44.0	40.7	38.0	35.1	32.1	29.3	26.8	24.3	21.8	19.4	16.9
130°	42.6	39.7	36.7	34.0	31.4	28.6	26.0	23.6	21.3	18.9	16.4
132.5°	40.9	38.4	35.6	32.9	30.4	27.9	25.4	23.0	20.7	18.3	15.9
135°	39.4	36.8	34.3	31.9	29.3	26.9	24.6	22.3	20.0	17.7	15.4
137.5°	38.1	35.5	32.9	30.6	28.3	25.9	23.7	21.4	19.2	17.1	14.9
140°	36.6	34.3	31.9	29.4	27.0	24.8	22.7	20.6	18.5	16.4	14.3
142.5°	35.1	32.9	30.8	28.7	26.3	24.0	21.7	19.7	17.7	15.7	13.7
145°	33.4	31.3	29.2	27.3	25.4	23.4	21.3	19.1	17.0	15.0	13.1
147.5°	30.6	29.1	27.6	25.8	24.0	22.1	20.3	18.5	16.6	14.7	12.8
150°	28.2	26.6	25.3	23.9	22.5	20.8	19.1	17.4	15.7	13.9	12.2
152.5°	26.3	24.8	23.3	21.8	20.4	19.1	17.7	16.2	14.7	13.1	11.4
155°	24.3	23.0	21.6	20.2	18.8	17.4	16.0	14.6	13.2	11.8	10.4
157.5°	22.0	20.9	19.8	18.6	17.3	16.0	14.7	13.4	12.1	10.8	9.4
160°	19.4	18.5	17.5	16.6	15.5	14.5	13.4	12.2	11.0	9.8	8.6
162.5°	16.9	16.1	15.3	14.4	13.5	12.6	11.6	10.7	9.7	8.6	7.6
165°	14.7	13.9	13.1	12.3	11.5	10.7	9.9	9.1	8.2	7.4	6.5
167.5°	12.4	11.8	11.2	10.5	9.8	9.1	8.4	7.6	6.9	6.2	5.4
170°	9.9	9.4	8.9	8.4	7.9	7.3	6.8	6.2	5.6	5.0	4.4
172.5°	7.4	7.0	6.7	6.3	5.9	5.5	5.1	4.6	4.2	3.7	3.3
175°	4.9	4.7	4.4	4.2	3.9	3.6	3.4	3.1	2.8	2.5	2.2
177.5°	2.5	2.4	2.2	2.1	2.0	1.8	1.7	1.5	1.4	1.2	1.1
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: P232051

CATALOG NUMBER: FVS4WM-3-LD4-50-1HI-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°	0.9	0.8	0.6	0.5	0.3	0.2	0.0	0.2	0.3	0.5	0.6
5°	1.9	1.6	1.3	1.0	0.6	0.3	0.0	0.3	0.6	1.0	1.3
7.5°	2.8	2.4	1.9	1.4	1.0	0.5	0.0	0.5	1.0	1.4	1.9
10°	3.8	3.2	2.5	1.9	1.3	0.6	0.0	0.6	1.3	1.9	2.5
12.5°	4.6	3.9	3.1	2.3	1.6	0.8	0.0	0.8	1.6	2.3	3.1
15°	5.6	4.7	3.7	2.8	1.9	0.9	0.0	0.9	1.9	2.8	3.7
17.5°	6.6	5.5	4.4	3.3	2.2	1.1	0.0	1.1	2.2	3.3	4.4
20°	7.4	6.1	4.9	3.7	2.5	1.2	0.0	1.2	2.5	3.7	4.9
22.5°	8.1	6.8	5.4	4.1	2.7	1.4	0.0	1.4	2.7	4.1	5.4
25°	9.0	7.5	6.0	4.6	3.0	1.5	0.0	1.5	3.0	4.6	6.0
27.5°	9.8	8.2	6.5	4.9	3.3	1.6	0.0	1.6	3.3	4.9	6.5
30°	10.5	8.7	7.0	5.2	3.5	1.7	0.0	1.7	3.5	5.2	7.0
32.5°	10.9	9.0	7.2	5.4	3.6	1.8	0.0	1.8	3.6	5.4	7.2
35°	11.2	9.4	7.5	5.6	3.7	1.9	0.0	1.9	3.7	5.6	7.5
37.5°	11.8	9.8	7.8	5.9	3.9	2.0	0.0	2.0	3.9	5.9	7.8
40°	12.3	10.2	8.2	6.1	4.1	2.0	0.0	2.0	4.1	6.1	8.1
42.5°	12.7	10.6	8.5	6.3	4.2	2.1	0.0	2.1	4.2	6.3	8.5
45°	13.2	11.0	8.7	6.5	4.4	2.2	0.0	2.2	4.4	6.5	8.7
47.5°	13.6	11.3	9.0	6.8	4.5	2.2	0.0	2.2	4.5	6.8	9.0
50°	14.0	11.6	9.3	6.9	4.6	2.3	0.0	2.3	4.6	6.9	9.3
52.5°	14.4	11.9	9.5	7.1	4.7	2.4	0.0	2.4	4.7	7.1	9.5
55°	14.8	12.3	9.8	7.3	4.9	2.4	0.0	2.4	4.9	7.3	9.8
57.5°	15.2	12.4	9.7	7.1	4.6	2.3	0.0	2.3	4.6	7.1	9.7
60°	14.6	11.9	9.4	7.0	4.6	2.3	0.0	2.3	4.6	7.0	9.4
62.5°	14.2	12.0	9.2	6.6	4.3	2.1	0.0	2.1	4.3	6.6	9.2
65°	13.4	10.9	8.3	5.9	3.8	1.8	0.0	1.8	3.8	5.9	8.3
67.5°	12.3	9.7	7.5	5.6	4.0	2.5	1.1	2.5	4.0	5.6	7.5
70°	11.2	8.8	7.0	5.4	3.8	2.4	1.1	2.4	3.8	5.4	7.0
72.5°	10.2	8.1	6.4	5.0	3.6	2.3	1.1	2.3	3.6	5.0	6.4
75°	9.5	7.2	5.2	4.2	3.1	2.0	1.1	2.0	3.1	4.2	5.2
77.5°	8.2	5.5	4.0	2.7	1.2	0.2	0.0	0.2	1.2	2.7	4.0
80°	6.5	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
82.5°	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	4.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	4.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	6.5	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
102.5°	8.2	5.5	4.0	2.7	1.2	0.2	0.0	0.2	1.2	2.7	4.0
105°	9.5	7.2	5.2	4.2	3.1	2.0	1.1	2.0	3.1	4.2	5.2
107.5°	10.2	8.1	6.4	5.0	3.6	2.3	1.1	2.3	3.6	5.0	6.4
110°	11.2	8.8	7.0	5.4	3.8	2.4	1.1	2.4	3.8	5.4	7.0



TEST NUMBER: P232051

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

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	12.3	9.7	7.5	5.6	4.0	2.5	1.1	2.5	4.0	5.6	7.5
115°	13.4	10.9	8.3	5.9	3.8	1.8	0.0	1.8	3.8	5.9	8.3
117.5°	14.2	12.0	9.2	6.6	4.3	2.1	0.0	2.1	4.3	6.6	9.2
120°	14.6	11.9	9.4	7.0	4.6	2.3	0.0	2.3	4.6	7.0	9.4
122.5°	15.2	12.4	9.7	7.1	4.6	2.3	0.0	2.3	4.6	7.1	9.7
125°	14.8	12.3	9.8	7.3	4.9	2.4	0.0	2.4	4.9	7.3	9.8
127.5°	14.4	11.9	9.5	7.1	4.7	2.4	0.0	2.4	4.7	7.1	9.5
130°	14.0	11.6	9.3	6.9	4.6	2.3	0.0	2.3	4.6	6.9	9.3
132.5°	13.6	11.3	9.0	6.8	4.5	2.2	0.0	2.2	4.5	6.8	9.0
135°	13.2	11.0	8.7	6.5	4.4	2.2	0.0	2.2	4.4	6.5	8.7
137.5°	12.7	10.6	8.5	6.3	4.2	2.1	0.0	2.1	4.2	6.3	8.5
140°	12.3	10.2	8.2	6.1	4.1	2.0	0.0	2.0	4.1	6.1	8.2
142.5°	11.8	9.8	7.8	5.9	3.9	2.0	0.0	2.0	3.9	5.9	7.8
145°	11.2	9.4	7.5	5.6	3.7	1.9	0.0	1.9	3.7	5.6	7.5
147.5°	10.9	9.0	7.2	5.4	3.6	1.8	0.0	1.8	3.6	5.4	7.2
150°	10.5	8.7	7.0	5.2	3.5	1.7	0.0	1.7	3.5	5.2	7.0
152.5°	9.8	8.2	6.5	4.9	3.3	1.6	0.0	1.6	3.3	4.9	6.5
155°	9.0	7.5	6.0	4.6	3.0	1.5	0.0	1.5	3.0	4.6	6.0
157.5°	8.1	6.8	5.4	4.1	2.7	1.4	0.0	1.4	2.7	4.1	5.4
160°	7.4	6.1	4.9	3.7	2.5	1.2	0.0	1.2	2.5	3.7	4.9
162.5°	6.6	5.5	4.4	3.3	2.2	1.1	0.0	1.1	2.2	3.3	4.4
165°	5.6	4.7	3.7	2.8	1.9	0.9	0.0	0.9	1.9	2.8	3.7
167.5°	4.6	3.9	3.1	2.3	1.6	0.8	0.0	0.8	1.6	2.3	3.1
170°	3.8	3.2	2.5	1.9	1.3	0.6	0.0	0.6	1.3	1.9	2.5
172.5°	2.8	2.4	1.9	1.4	1.0	0.5	0.0	0.5	1.0	1.4	1.9
175°	1.9	1.6	1.3	1.0	0.6	0.3	0.0	0.3	0.6	1.0	1.3
177.5°	0.9	0.8	0.6	0.5	0.3	0.2	0.0	0.2	0.3	0.5	0.6
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: P232051

CATALOG NUMBER: FVS4WM-3-LD4-50-1HI-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°	0.8	0.9	1.1	1.2	1.4	1.5	1.7	1.8	2.0	2.1	2.2
5°	1.6	1.9	2.2	2.5	2.8	3.1	3.4	3.6	3.9	4.2	4.4
7.5°	2.4	2.8	3.3	3.7	4.2	4.6	5.1	5.5	5.9	6.3	6.7
10°	3.2	3.8	4.4	5.0	5.6	6.2	6.8	7.3	7.9	8.4	8.9
12.5°	3.9	4.6	5.4	6.2	6.9	7.6	8.4	9.1	9.8	10.5	11.2
15°	4.7	5.6	6.5	7.4	8.2	9.1	9.9	10.7	11.5	12.3	13.1
17.5°	5.5	6.6	7.6	8.6	9.7	10.7	11.6	12.6	13.5	14.4	15.3
20°	6.1	7.4	8.6	9.8	11.0	12.2	13.4	14.5	15.5	16.6	17.5
22.5°	6.8	8.1	9.4	10.8	12.1	13.4	14.7	16.0	17.3	18.6	19.8
25°	7.5	9.0	10.4	11.8	13.2	14.6	16.0	17.4	18.8	20.2	21.6
27.5°	8.2	9.8	11.4	13.1	14.7	16.2	17.7	19.1	20.4	21.8	23.3
30°	8.7	10.5	12.2	13.9	15.7	17.4	19.1	20.8	22.5	23.9	25.3
32.5°	9.0	10.9	12.8	14.7	16.6	18.5	20.3	22.1	24.0	25.8	27.6
35°	9.4	11.2	13.1	15.0	17.0	19.1	21.3	23.4	25.4	27.3	29.2
37.5°	9.8	11.8	13.7	15.7	17.7	19.7	21.7	24.0	26.3	28.7	30.8
40°	10.2	12.3	14.3	16.4	18.5	20.6	22.7	24.8	27.0	29.4	31.9
42.5°	10.6	12.7	14.9	17.1	19.2	21.4	23.7	25.9	28.3	30.6	32.9
45°	11.0	13.2	15.4	17.7	20.0	22.3	24.6	26.9	29.3	31.9	34.3
47.5°	11.3	13.6	15.9	18.3	20.7	23.0	25.4	27.9	30.4	32.9	35.6
50°	11.6	14.0	16.4	18.9	21.3	23.6	26.0	28.6	31.4	34.0	36.7
52.5°	11.9	14.4	16.9	19.4	21.8	24.3	26.8	29.3	32.1	35.1	38.0
55°	12.3	14.8	17.3	19.8	22.3	24.9	27.5	30.2	32.9	35.7	39.1
57.5°	12.4	15.2	17.6	20.2	22.9	25.6	28.3	31.1	33.8	36.7	39.8
60°	11.9	14.6	17.5	20.4	23.3	26.2	29.0	31.9	34.9	37.8	41.6
62.5°	12.0	14.2	16.9	20.0	23.3	26.5	29.8	32.8	35.9	39.5	43.7
65°	10.9	13.4	16.2	19.3	22.9	26.4	30.1	33.4	36.7	40.8	45.4
67.5°	9.7	12.3	15.2	18.3	22.1	26.1	29.5	33.2	37.1	41.4	46.6
70°	8.8	11.2	14.2	17.4	20.7	24.7	28.7	32.7	37.0	41.7	47.4
72.5°	8.1	10.2	13.2	16.4	19.7	23.1	27.6	32.1	36.7	41.8	47.9
75°	7.2	9.5	11.9	15.3	18.8	22.3	26.4	31.4	36.4	41.7	48.2
77.5°	5.5	8.2	10.8	14.1	18.0	22.0	25.4	30.7	36.2	41.9	48.7
80°	4.2	6.5	9.5	13.1	17.3	21.6	25.1	29.9	35.7	42.1	49.4
82.5°	2.7	5.4	8.4	12.1	16.1	20.1	24.1	29.0	35.4	42.4	50.2
85°	1.3	4.7	7.9	11.1	15.0	18.8	23.2	28.4	35.2	42.8	51.2
87.5°	0.4	4.8	8.1	10.8	14.4	17.9	22.3	28.1	35.4	43.5	52.6
90°	0.0	5.4	8.7	10.9	14.2	17.4	21.8	28.3	36.0	44.7	54.5
92.5°	0.4	4.8	8.1	10.8	14.4	17.9	22.3	28.1	35.4	43.5	52.6
95°	1.3	4.7	7.9	11.1	15.0	18.8	23.2	28.4	35.2	42.8	51.2
97.5°	2.7	5.4	8.4	12.1	16.1	20.1	24.1	29.0	35.4	42.4	50.2
100°	4.2	6.5	9.5	13.1	17.3	21.6	25.1	29.9	35.7	42.1	49.4
102.5°	5.5	8.2	10.8	14.1	18.0	22.0	25.4	30.7	36.2	41.9	48.7
105°	7.2	9.5	11.9	15.3	18.8	22.3	26.4	31.4	36.4	41.7	48.2
107.5°	8.1	10.2	13.2	16.4	19.7	23.1	27.6	32.1	36.7	41.8	47.9
110°	8.8	11.2	14.2	17.4	20.7	24.7	28.7	32.7	37.0	41.7	47.4



TEST NUMBER: P232051

CATALOG NUMBER: FVS4WM-3-LD4-50-1HI-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°	9.7	12.3	15.2	18.3	22.1	26.1	29.5	33.2	37.1	41.4	46.6
115°	10.9	13.4	16.2	19.3	22.9	26.4	30.1	33.4	36.7	40.8	45.4
117.5°	12.0	14.2	16.9	20.0	23.3	26.5	29.8	32.8	35.9	39.5	43.7
120°	11.9	14.6	17.5	20.4	23.3	26.2	29.0	31.9	34.9	37.8	41.6
122.5°	12.4	15.2	17.6	20.2	22.9	25.6	28.3	31.1	33.8	36.7	39.8
125°	12.3	14.8	17.3	19.8	22.3	24.9	27.5	30.2	32.9	35.7	39.1
127.5°	11.9	14.4	16.9	19.4	21.8	24.3	26.8	29.3	32.1	35.1	38.0
130°	11.6	14.0	16.4	18.9	21.3	23.6	26.0	28.6	31.4	34.0	36.7
132.5°	11.3	13.6	15.9	18.3	20.7	23.0	25.4	27.9	30.4	32.9	35.6
135°	11.0	13.2	15.4	17.7	20.0	22.3	24.6	26.9	29.3	31.9	34.3
137.5°	10.6	12.7	14.9	17.1	19.2	21.4	23.7	25.9	28.3	30.6	32.9
140°	10.2	12.3	14.3	16.4	18.5	20.6	22.7	24.8	27.0	29.4	31.9
142.5°	9.8	11.8	13.7	15.7	17.7	19.7	21.7	24.0	26.3	28.7	30.8
145°	9.4	11.2	13.1	15.0	17.0	19.1	21.3	23.4	25.4	27.3	29.2
147.5°	9.0	10.9	12.8	14.7	16.6	18.5	20.3	22.1	24.0	25.8	27.6
150°	8.7	10.5	12.2	13.9	15.7	17.4	19.1	20.8	22.5	23.9	25.3
152.5°	8.2	9.8	11.4	13.1	14.7	16.2	17.7	19.1	20.4	21.8	23.3
155°	7.5	9.0	10.4	11.8	13.2	14.6	16.0	17.4	18.8	20.2	21.6
157.5°	6.8	8.1	9.4	10.8	12.1	13.4	14.7	16.0	17.3	18.6	19.8
160°	6.1	7.4	8.6	9.8	11.0	12.2	13.4	14.5	15.5	16.6	17.5
162.5°	5.5	6.6	7.6	8.6	9.7	10.7	11.6	12.6	13.5	14.4	15.3
165°	4.7	5.6	6.5	7.4	8.2	9.1	9.9	10.7	11.5	12.3	13.1
167.5°	3.9	4.6	5.4	6.2	6.9	7.6	8.4	9.1	9.8	10.5	11.2
170°	3.2	3.8	4.4	5.0	5.6	6.2	6.8	7.3	7.9	8.4	8.9
172.5°	2.4	2.8	3.3	3.7	4.2	4.6	5.1	5.5	5.9	6.3	6.7
175°	1.6	1.9	2.2	2.5	2.8	3.1	3.4	3.6	3.9	4.2	4.4
177.5°	0.8	0.9	1.1	1.2	1.4	1.5	1.7	1.8	2.0	2.1	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: P232051

CATALOG NUMBER: FVS4WM-3-LD4-50-1HI-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°	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4
5°	4.7	4.9	5.1	5.4	5.6	5.8	6.0	6.1	6.3	6.5	6.6
7.5°	7.0	7.4	7.7	8.1	8.4	8.7	8.9	9.2	9.5	9.7	9.9
10°	9.4	9.9	10.3	10.8	11.2	11.6	11.9	12.3	12.6	12.9	13.2
12.5°	11.8	12.4	12.9	13.5	14.0	14.5	15.0	15.4	15.8	16.2	16.5
15°	13.9	14.7	15.5	16.2	16.9	17.4	18.0	18.5	19.0	19.4	19.8
17.5°	16.1	16.9	17.7	18.6	19.4	20.3	21.0	21.6	22.2	22.7	23.2
20°	18.5	19.4	20.3	21.1	21.9	22.8	23.7	24.6	25.4	26.0	26.5
22.5°	20.9	22.0	22.9	23.9	24.7	25.5	26.3	27.3	28.3	29.2	29.9
25°	23.0	24.3	25.6	26.6	27.6	28.5	29.4	30.2	31.0	32.1	34.3
27.5°	24.8	26.3	27.8	29.2	30.5	31.5	33.3	35.4	37.6	40.1	43.2
30°	26.6	28.2	29.8	31.7	34.0	36.4	38.8	41.4	44.2	47.3	50.8
32.5°	29.1	30.6	32.4	34.7	37.1	39.9	43.0	46.2	49.6	53.4	57.6
35°	31.3	33.4	35.2	37.2	39.8	42.7	46.1	49.9	54.0	58.4	63.5
37.5°	32.9	35.1	37.4	39.7	42.1	45.1	48.5	52.7	57.4	62.7	68.3
40°	34.3	36.6	39.0	41.7	44.4	47.2	50.8	54.9	60.2	66.0	72.6
42.5°	35.5	38.1	40.6	43.2	46.2	49.3	52.7	57.1	62.2	68.8	76.1
45°	36.8	39.4	42.1	44.8	47.8	51.1	54.8	58.9	64.3	71.0	78.8
47.5°	38.4	40.9	43.6	46.3	49.4	52.7	56.5	60.9	66.3	72.7	81.4
50°	39.7	42.6	45.3	48.1	51.0	54.3	58.2	63.1	69.8	77.2	85.3
52.5°	40.7	44.0	47.1	50.0	52.8	58.1	64.1	70.5	77.2	83.8	90.4
55°	42.2	45.2	49.2	54.3	59.6	65.3	71.6	78.3	85.0	91.4	96.7
57.5°	43.7	48.3	53.7	59.9	65.9	72.3	79.0	86.0	93.0	99.5	104.3
60°	46.3	51.9	57.6	64.6	71.6	78.8	86.2	93.6	101.1	107.8	112.6
62.5°	48.5	54.6	61.2	68.5	76.8	84.8	93.1	101.2	109.1	116.3	121.5
65°	50.6	56.8	64.2	72.1	81.3	90.4	99.7	108.8	117.2	125.1	131.0
67.5°	52.3	58.8	66.7	75.5	85.3	95.7	105.9	116.2	125.4	133.8	139.9
70°	53.7	60.8	69.0	78.5	89.0	100.7	111.9	123.4	133.3	141.8	146.6
72.5°	54.9	62.4	71.1	81.2	92.5	104.4	115.5	126.1	134.9	141.8	146.0
75°	55.9	64.0	73.2	83.5	94.5	106.1	117.1	127.4	136.1	142.3	145.9
77.5°	56.9	65.6	75.2	85.8	97.0	108.3	119.2	129.3	137.8	143.4	146.0
80°	57.9	67.4	77.4	88.4	99.8	111.0	121.7	131.5	139.8	144.8	146.5
82.5°	59.2	69.4	79.8	91.3	103.1	114.2	124.5	134.2	142.1	146.5	147.1
85°	60.8	71.6	82.6	94.6	106.8	117.9	127.8	137.1	144.7	148.5	147.8
87.5°	62.9	74.3	85.7	98.3	111.0	122.0	131.3	140.4	147.5	150.5	148.6
90°	65.4	77.4	89.4	102.5	115.5	126.4	135.2	143.9	150.4	152.6	149.3
92.5°	62.9	74.3	85.7	98.3	111.0	122.0	131.3	140.4	147.5	150.5	148.6
95°	60.8	71.6	82.6	94.6	106.8	117.9	127.8	137.1	144.7	148.5	147.8
97.5°	59.2	69.4	79.8	91.3	103.1	114.2	124.5	134.2	142.1	146.5	147.1
100°	57.9	67.4	77.4	88.4	99.8	111.0	121.7	131.5	139.8	144.8	146.5
102.5°	56.9	65.6	75.2	85.8	97.0	108.3	119.2	129.3	137.8	143.4	146.0
105°	55.9	64.0	73.2	83.5	94.5	106.1	117.1	127.4	136.1	142.3	145.9
107.5°	54.9	62.4	71.1	81.2	92.5	104.4	115.5	126.1	134.9	141.8	146.0
110°	53.7	60.8	69.0	78.5	89.0	100.7	111.9	123.4	133.3	141.8	146.6



TEST NUMBER: P232051

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

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	52.3	58.8	66.7	75.5	85.3	95.7	105.9	116.2	125.4	133.8	139.9
115°	50.6	56.8	64.2	72.1	81.3	90.4	99.7	108.8	117.2	125.1	131.0
117.5°	48.5	54.6	61.2	68.5	76.8	84.8	93.1	101.2	109.1	116.3	121.5
120°	46.3	51.9	57.6	64.6	71.6	78.8	86.2	93.6	101.1	107.8	112.6
122.5°	43.7	48.3	53.7	59.9	65.9	72.3	79.0	86.0	93.0	99.5	104.3
125°	42.2	45.2	49.2	54.3	59.6	65.3	71.6	78.3	85.0	91.4	96.7
127.5°	40.7	44.0	47.1	50.0	52.8	58.1	64.1	70.5	77.2	83.8	90.4
130°	39.7	42.6	45.3	48.1	51.0	54.3	58.2	63.1	69.8	77.2	85.3
132.5°	38.4	40.9	43.6	46.3	49.4	52.7	56.5	60.9	66.3	72.7	81.4
135°	36.8	39.4	42.1	44.8	47.8	51.1	54.8	58.9	64.3	71.0	78.8
137.5°	35.5	38.1	40.6	43.2	46.2	49.3	52.7	57.1	62.2	68.8	76.1
140°	34.3	36.6	39.0	41.7	44.4	47.2	50.8	54.9	60.2	66.0	72.6
142.5°	32.9	35.1	37.4	39.7	42.1	45.1	48.5	52.7	57.4	62.7	68.3
145°	31.3	33.4	35.2	37.2	39.8	42.7	46.1	49.9	54.0	58.4	63.5
147.5°	29.1	30.6	32.4	34.7	37.1	39.9	43.0	46.2	49.6	53.4	57.6
150°	26.6	28.2	29.8	31.7	34.0	36.4	38.8	41.4	44.2	47.3	50.8
152.5°	24.8	26.3	27.8	29.2	30.5	31.5	33.3	35.4	37.6	40.1	43.2
155°	23.0	24.3	25.6	26.6	27.6	28.5	29.4	30.2	31.0	32.1	34.3
157.5°	20.9	22.0	22.9	23.9	24.7	25.5	26.3	27.3	28.3	29.2	29.9
160°	18.5	19.4	20.3	21.1	21.9	22.8	23.7	24.6	25.4	26.0	26.5
162.5°	16.1	16.9	17.7	18.6	19.4	20.3	21.0	21.6	22.2	22.7	23.2
165°	13.9	14.7	15.5	16.2	16.9	17.4	18.0	18.5	19.0	19.4	19.8
167.5°	11.8	12.4	12.9	13.5	14.0	14.5	15.0	15.4	15.8	16.2	16.5
170°	9.4	9.9	10.3	10.8	11.2	11.6	11.9	12.3	12.6	12.9	13.2
172.5°	7.0	7.4	7.7	8.1	8.4	8.7	8.9	9.2	9.5	9.7	9.9
175°	4.7	4.9	5.1	5.4	5.6	5.8	6.0	6.1	6.3	6.5	6.6
177.5°	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4
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: P232051

CATALOG NUMBER: FVS4WM-3-LD4-50-1HI-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°	3.4	3.5	3.5	3.6	3.6	3.7	3.7	3.7	3.7	3.8	4.2
5°	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.4	7.5	7.5	8.4
7.5°	10.1	10.2	10.4	10.6	10.8	10.9	11.0	11.1	11.2	11.3	12.6
10°	13.4	13.7	13.9	14.0	14.3	14.5	14.6	14.8	14.9	15.0	16.8
12.5°	16.8	17.1	17.4	17.6	17.7	18.0	18.2	18.4	18.6	18.8	21.0
15°	20.2	20.5	20.8	21.1	21.3	21.5	21.8	22.1	22.3	22.5	25.1
17.5°	23.6	24.0	24.3	24.6	24.9	25.1	25.3	25.7	26.0	26.3	29.3
20°	27.0	27.4	27.8	28.2	28.4	28.7	28.8	29.3	29.7	30.0	33.4
22.5°	30.4	30.9	31.3	31.7	32.0	32.3	32.4	32.8	33.4	33.8	37.5
25°	36.3	38.1	39.9	41.2	42.4	43.2	43.8	44.3	44.8	45.2	49.0
27.5°	46.3	48.9	51.2	53.1	54.4	55.3	55.7	56.0	56.4	56.6	60.4
30°	54.9	59.0	62.0	64.9	66.3	67.5	67.8	67.9	68.0	67.9	71.8
32.5°	62.4	67.7	72.2	75.9	78.3	79.6	80.0	79.8	79.7	79.3	83.2
35°	68.9	75.3	81.8	86.4	90.2	91.7	92.2	91.8	91.3	90.7	94.5
37.5°	74.9	82.0	90.0	96.5	102.2	103.7	104.6	103.9	103.1	102.1	105.7
40°	79.9	88.0	97.3	106.1	112.6	115.8	117.0	116.0	114.8	113.4	116.9
42.5°	84.1	93.6	104.0	115.6	122.9	127.8	129.4	128.1	126.6	124.8	128.1
45°	88.1	98.5	109.9	122.8	132.9	139.8	141.5	140.3	138.4	136.2	139.2
47.5°	91.4	101.8	113.0	125.2	135.7	143.5	145.5	146.5	147.3	148.3	154.9
50°	94.1	103.4	113.6	124.8	135.8	144.8	148.5	151.9	155.8	160.4	170.9
52.5°	98.0	106.3	115.1	124.9	136.0	145.5	151.2	156.9	164.1	172.5	187.1
55°	103.2	110.0	117.3	125.7	136.1	146.3	153.7	161.6	172.2	184.6	203.6
57.5°	109.2	114.6	120.3	127.1	136.6	147.0	156.0	165.8	180.1	196.8	220.2
60°	115.9	119.9	124.2	129.5	137.4	147.8	158.1	169.8	187.7	208.9	237.1
62.5°	123.4	126.0	128.7	132.3	138.7	148.5	160.0	173.5	195.3	221.0	254.1
65°	131.6	132.8	133.8	135.7	140.3	149.3	161.8	176.9	202.7	233.1	271.2
67.5°	140.5	140.0	139.5	139.5	142.2	150.2	163.5	180.2	209.9	245.2	288.4
70°	146.1	143.3	141.0	139.6	141.4	148.5	162.1	178.3	207.8	243.0	286.9
72.5°	145.8	142.6	139.9	138.2	139.8	146.5	160.5	176.4	205.7	240.8	285.1
75°	145.4	141.9	138.8	136.7	138.4	144.6	158.9	174.7	203.6	238.7	284.8
77.5°	145.1	141.1	137.7	135.2	137.0	142.8	157.5	173.0	201.6	236.5	282.4
80°	144.8	140.4	136.6	133.7	135.6	141.1	156.1	171.6	199.8	234.3	280.0
82.5°	144.4	139.7	135.5	132.1	134.4	139.4	154.8	170.2	197.9	232.1	277.6
85°	143.9	139.0	134.3	130.6	133.1	137.9	153.6	168.9	196.2	230.0	275.1
87.5°	143.4	138.2	133.1	129.0	131.9	136.5	152.5	167.8	194.5	227.8	272.7
90°	142.8	137.3	131.9	127.5	130.8	135.2	151.5	166.8	192.9	225.6	270.3
92.5°	143.4	138.2	133.1	129.0	131.9	136.5	152.5	167.8	194.5	227.8	272.7
95°	143.9	139.0	134.3	130.6	133.1	137.9	153.6	168.9	196.2	230.0	275.1
97.5°	144.4	139.7	135.5	132.1	134.4	139.4	154.8	170.2	197.9	232.1	277.6
100°	144.8	140.4	136.6	133.7	135.6	141.1	156.1	171.6	199.8	234.3	280.0
102.5°	145.1	141.1	137.7	135.2	137.0	142.8	157.5	173.0	201.6	236.5	282.4
105°	145.4	141.9	138.8	136.7	138.4	144.6	158.9	174.7	203.6	238.7	284.8
107.5°	145.8	142.6	139.9	138.2	139.8	146.5	160.5	176.4	205.7	240.8	285.1
110°	146.1	143.3	141.0	139.6	141.4	148.5	162.1	178.3	207.8	243.0	286.9



TEST NUMBER: P232051

CATALOG NUMBER: FVS4WM-3-LD4-50-1HI-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°	140.5	140.0	139.5	139.5	142.2	150.2	163.5	180.2	209.9	245.2	288.4
115°	131.6	132.8	133.8	135.7	140.3	149.3	161.8	176.9	202.7	233.1	271.2
117.5°	123.4	126.0	128.7	132.3	138.7	148.5	160.0	173.5	195.3	221.0	254.1
120°	115.9	119.9	124.2	129.5	137.4	147.8	158.1	169.8	187.7	208.9	237.1
122.5°	109.2	114.6	120.3	127.1	136.6	147.0	156.0	165.8	180.1	196.8	220.2
125°	103.2	110.0	117.3	125.7	136.1	146.3	153.7	161.6	172.2	184.6	203.6
127.5°	98.0	106.3	115.1	124.9	136.0	145.5	151.2	156.9	164.1	172.5	187.1
130°	94.1	103.4	113.6	124.8	135.8	144.8	148.5	151.9	155.8	160.4	170.9
132.5°	91.4	101.8	113.0	125.2	135.7	143.5	145.5	146.5	147.3	148.3	154.9
135°	88.1	98.5	109.9	122.8	132.9	139.8	141.5	140.3	138.4	136.2	139.2
137.5°	84.1	93.6	104.0	115.6	122.9	127.8	129.4	128.1	126.6	124.8	128.1
140°	79.9	88.0	97.3	106.1	112.6	115.8	117.0	116.0	114.8	113.4	116.9
142.5°	74.9	82.0	90.0	96.5	102.2	103.7	104.6	103.9	103.1	102.1	105.7
145°	68.9	75.3	81.8	86.4	90.2	91.7	92.2	91.8	91.3	90.7	94.5
147.5°	62.4	67.7	72.2	75.9	78.3	79.6	80.0	79.8	79.7	79.3	83.2
150°	54.9	59.0	62.0	64.9	66.3	67.5	67.8	67.9	68.0	67.9	71.8
152.5°	46.3	48.9	51.2	53.1	54.4	55.3	55.7	56.0	56.4	56.6	60.4
155°	36.3	38.1	39.9	41.2	42.4	43.2	43.8	44.3	44.8	45.2	49.0
157.5°	30.4	30.9	31.3	31.7	32.0	32.3	32.4	32.8	33.4	33.8	37.5
160°	27.0	27.4	27.8	28.2	28.4	28.7	28.8	29.3	29.7	30.0	33.4
162.5°	23.6	24.0	24.3	24.6	24.9	25.1	25.3	25.7	26.0	26.3	29.3
165°	20.2	20.5	20.8	21.1	21.3	21.5	21.8	22.1	22.3	22.5	25.1
167.5°	16.8	17.1	17.4	17.6	17.7	18.0	18.2	18.4	18.6	18.8	21.0
170°	13.4	13.7	13.9	14.0	14.3	14.5	14.6	14.8	14.9	15.0	16.8
172.5°	10.1	10.2	10.4	10.6	10.8	10.9	11.0	11.1	11.2	11.3	12.6
175°	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.4	7.5	7.5	8.4
177.5°	3.4	3.5	3.5	3.6	3.6	3.7	3.7	3.7	3.7	3.8	4.2
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: P232051

CATALOG NUMBER: FVS4WM-3-LD4-50-1HI-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°	4.7	5.1	5.6	6.0	6.4	6.8	7.2	7.6	8.0	8.3	8.6
5°	9.3	10.2	11.1	11.9	12.8	13.6	14.4	15.1	15.8	16.5	17.2
7.5°	14.0	15.3	16.6	17.8	19.1	20.2	21.5	23.3	25.0	26.7	28.3
10°	18.6	20.3	22.0	23.7	25.4	27.9	30.3	32.7	35.0	37.2	39.4
12.5°	23.2	25.3	27.4	29.8	33.0	36.0	39.0	41.9	44.8	47.7	50.5
15°	27.7	30.2	32.9	36.7	40.4	44.0	47.6	51.1	54.6	57.9	61.6
17.5°	32.2	35.1	39.0	43.4	47.7	51.9	56.0	60.0	63.9	67.6	71.3
20°	36.7	40.1	45.1	50.1	55.0	59.5	64.0	68.4	72.7	76.9	80.9
22.5°	41.2	45.6	51.2	56.7	61.8	66.8	71.6	76.4	81.1	85.6	89.6
25°	52.6	57.5	63.0	68.3	73.1	77.6	82.0	86.2	90.0	93.2	97.4
27.5°	64.1	69.7	75.5	80.9	85.9	90.6	95.2	99.4	102.8	106.0	109.0
30°	75.5	81.7	87.9	93.2	98.8	103.2	107.9	111.6	115.0	118.2	121.3
32.5°	87.2	93.6	99.7	105.3	110.6	115.4	119.7	123.3	126.7	129.9	133.8
35°	98.8	105.3	111.4	117.2	122.4	127.5	131.0	134.6	137.8	141.4	145.9
37.5°	110.3	116.9	123.0	128.9	133.8	138.2	141.9	145.3	148.8	152.6	157.6
40°	121.7	128.3	134.4	140.1	144.9	148.9	152.4	155.5	159.0	163.0	170.6
42.5°	133.0	139.5	145.7	151.0	155.6	159.2	162.4	165.3	168.8	174.3	182.3
45°	144.2	150.6	156.7	161.7	165.8	169.3	172.0	174.7	177.8	185.1	194.2
47.5°	163.8	173.0	180.4	183.4	185.0	185.7	185.7	185.0	187.7	195.4	205.7
50°	184.3	197.2	206.8	209.2	209.9	210.2	210.3	209.5	211.5	215.8	222.3
52.5°	205.4	221.9	232.8	234.8	234.4	234.7	234.7	234.1	236.8	242.4	249.4
55°	227.0	247.1	258.6	260.0	258.5	259.3	259.1	259.4	262.1	268.1	274.9
57.5°	249.0	272.6	284.2	284.7	282.5	283.9	283.2	284.1	287.5	293.1	299.0
60°	271.4	298.4	309.8	309.1	306.8	308.4	307.3	308.4	312.4	316.8	321.3
62.5°	294.1	324.6	335.2	333.3	331.2	332.5	331.5	332.2	336.6	339.3	342.3
65°	317.2	351.0	360.5	357.3	355.6	356.6	355.6	356.3	360.2	360.6	361.9
67.5°	340.4	377.5	385.7	381.1	380.0	380.6	379.5	380.2	382.4	380.9	380.1
70°	340.8	381.7	394.6	394.5	395.4	396.3	396.3	398.4	400.4	399.3	397.2
72.5°	340.2	384.3	402.1	405.9	407.1	407.0	406.4	407.3	406.7	404.1	402.6
75°	339.4	387.0	410.2	417.9	418.5	417.6	416.2	415.5	412.6	408.5	406.9
77.5°	338.4	389.6	418.7	430.4	429.7	428.2	425.8	423.3	418.1	412.6	411.3
80°	339.0	392.1	427.6	443.1	440.6	438.7	435.3	430.7	423.5	416.4	415.7
82.5°	336.9	396.0	438.1	456.1	451.5	449.2	444.7	437.8	428.7	420.2	420.2
85°	334.7	397.3	446.5	469.5	462.1	459.6	453.9	444.5	433.9	423.9	424.8
87.5°	332.5	398.7	454.8	482.2	473.0	470.2	463.5	451.7	439.1	427.5	429.3
90°	330.3	400.0	463.2	494.8	483.9	480.7	473.0	458.9	444.7	431.6	433.8
92.5°	332.5	398.7	454.8	482.2	473.0	470.2	463.5	451.7	439.1	427.5	429.3
95°	334.7	397.3	446.5	469.5	462.1	459.6	453.9	444.5	433.9	423.9	424.8
97.5°	336.9	396.0	438.1	456.1	451.5	449.2	444.7	437.8	428.7	420.2	420.2
100°	339.0	392.1	427.6	443.1	440.6	438.7	435.3	430.7	423.5	416.4	415.7
102.5°	338.4	389.6	418.7	430.4	429.7	428.2	425.8	423.3	418.1	412.6	411.3
105°	339.4	387.0	410.2	417.9	418.5	417.6	416.2	415.5	412.6	408.5	406.9
107.5°	340.2	384.3	402.1	405.9	407.1	407.0	406.4	407.3	406.7	404.1	402.6
110°	340.8	381.7	394.6	394.5	395.4	396.3	396.3	398.4	400.4	399.3	397.2



TEST NUMBER: P232051

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

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	340.4	377.5	385.7	381.1	380.0	380.6	379.5	380.2	382.4	380.9	380.1
115°	317.2	351.0	360.5	357.3	355.6	356.6	355.6	356.3	360.2	360.6	361.9
117.5°	294.1	324.6	335.2	333.3	331.2	332.5	331.5	332.2	336.6	339.3	342.3
120°	271.4	298.4	309.8	309.1	306.8	308.4	307.3	308.4	312.4	316.8	321.3
122.5°	249.0	272.6	284.2	284.7	282.5	283.9	283.2	284.1	287.5	293.1	299.0
125°	227.0	247.1	258.6	260.0	258.5	259.3	259.1	259.4	262.1	268.1	274.9
127.5°	205.4	221.9	232.8	234.8	234.4	234.7	234.7	234.1	236.8	242.4	249.4
130°	184.3	197.2	206.8	209.2	209.9	210.2	210.3	209.5	211.5	215.8	222.3
132.5°	163.8	173.0	180.4	183.4	185.0	185.7	185.7	185.0	187.7	195.4	205.7
135°	144.2	150.6	156.7	161.7	165.8	169.3	172.0	174.7	177.8	185.1	194.2
137.5°	133.0	139.5	145.7	151.0	155.6	159.2	162.4	165.3	168.8	174.3	182.3
140°	121.7	128.3	134.4	140.1	144.9	148.9	152.4	155.5	159.0	163.0	170.6
142.5°	110.3	116.9	123.0	128.9	133.8	138.2	141.9	145.3	148.8	152.6	157.6
145°	98.8	105.3	111.4	117.2	122.4	127.5	131.0	134.6	137.8	141.4	145.9
147.5°	87.2	93.6	99.7	105.3	110.6	115.4	119.7	123.3	126.7	129.9	133.8
150°	75.5	81.7	87.9	93.2	98.8	103.2	107.9	111.6	115.0	118.2	121.3
152.5°	64.1	69.7	75.5	80.9	85.9	90.6	95.2	99.4	102.8	106.0	109.0
155°	52.6	57.5	63.0	68.3	73.1	77.6	82.0	86.2	90.0	93.2	97.4
157.5°	41.2	45.6	51.2	56.7	61.8	66.8	71.6	76.4	81.1	85.6	89.6
160°	36.7	40.1	45.1	50.1	55.0	59.5	64.0	68.4	72.7	76.9	80.9
162.5°	32.2	35.1	39.0	43.4	47.7	51.9	56.0	60.0	63.9	67.6	71.3
165°	27.7	30.2	32.9	36.7	40.4	44.0	47.6	51.1	54.6	57.9	61.6
167.5°	23.2	25.3	27.4	29.8	33.0	36.0	39.0	41.9	44.8	47.7	50.5
170°	18.6	20.3	22.0	23.7	25.4	27.9	30.3	32.7	35.0	37.2	39.4
172.5°	14.0	15.3	16.6	17.8	19.1	20.2	21.5	23.3	25.0	26.7	28.3
175°	9.3	10.2	11.1	11.9	12.8	13.6	14.4	15.1	15.8	16.5	17.2
177.5°	4.7	5.1	5.6	6.0	6.4	6.8	7.2	7.6	8.0	8.3	8.6
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: P232051

CATALOG NUMBER: FVS4WM-3-LD4-50-1HI-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°	9.0	9.3	9.6	9.8	10.1	10.3	10.5	10.7	10.9	11.0	11.2
5°	18.2	19.2	20.2	21.1	21.9	22.7	23.5	24.2	24.8	25.4	25.9
7.5°	29.9	31.3	32.8	34.1	35.4	36.8	38.0	39.2	40.3	41.4	42.3
10°	41.5	43.6	45.7	47.7	49.5	51.3	53.0	54.6	56.0	57.3	58.5
12.5°	53.2	55.8	58.3	60.6	62.9	65.0	67.0	68.9	70.7	72.4	74.0
15°	64.3	67.3	70.1	72.9	75.6	78.1	80.6	83.0	85.3	87.4	89.6
17.5°	74.8	78.6	81.4	84.6	87.6	90.6	93.7	97.0	100.2	103.3	106.4
20°	84.7	88.3	91.8	95.4	99.2	103.1	106.9	110.5	113.8	116.9	119.7
22.5°	93.5	97.5	101.6	105.8	110.1	114.4	118.6	122.5	126.2	129.7	132.5
25°	101.6	105.9	110.8	115.5	120.7	125.6	131.1	136.2	140.5	144.3	147.6
27.5°	111.9	115.3	119.8	125.8	133.2	140.5	147.7	152.7	157.7	161.9	165.7
30°	125.2	129.7	134.9	142.6	150.2	157.9	165.2	171.6	177.7	182.9	187.6
32.5°	138.4	144.3	152.4	160.5	168.8	176.9	185.6	193.8	200.3	205.8	210.6
35°	151.8	160.1	168.7	177.7	186.9	196.7	206.1	214.5	222.4	229.7	236.6
37.5°	166.0	174.8	184.5	194.6	205.4	215.6	225.2	234.7	244.7	254.9	264.8
40°	179.2	189.3	200.1	211.7	223.0	233.8	245.2	256.7	268.6	281.0	294.0
42.5°	192.5	203.4	215.8	228.2	240.2	253.3	266.3	279.8	294.4	309.3	325.6
45°	205.0	217.9	231.1	244.3	258.7	273.3	287.7	302.6	319.7	338.3	359.7
47.5°	218.0	231.7	246.1	261.4	277.5	292.6	308.2	325.7	346.2	368.9	399.2
50°	231.5	245.7	261.4	279.0	294.9	310.6	328.0	349.1	373.9	407.0	443.4
52.5°	258.0	268.2	281.3	295.1	311.5	327.5	347.9	372.9	407.4	446.9	491.6
55°	282.9	292.8	306.3	316.9	329.4	344.2	367.2	401.4	441.7	488.6	545.8
57.5°	305.9	315.4	326.0	337.0	349.7	368.4	395.0	429.8	477.3	536.4	601.1
60°	327.1	335.5	344.7	355.8	370.7	391.9	424.7	467.8	520.6	583.1	655.8
62.5°	346.9	353.5	361.8	372.8	390.4	418.0	456.1	504.4	566.1	635.6	716.4
65°	364.6	369.9	378.0	390.3	409.5	440.8	486.0	543.0	610.3	687.7	781.1
67.5°	380.6	385.0	392.9	406.6	429.9	465.9	515.1	576.1	650.6	741.5	840.8
70°	395.6	399.0	406.4	421.2	447.5	488.9	542.8	609.9	691.7	787.9	894.4
72.5°	404.1	410.1	419.7	435.7	463.3	510.7	565.4	638.8	728.4	827.0	937.5
75°	410.4	418.8	431.3	451.0	483.2	530.2	588.4	664.2	757.5	856.5	974.4
77.5°	417.0	427.7	442.5	465.4	501.5	551.4	615.1	694.3	785.0	885.2	1002.4
80°	423.8	436.7	453.5	478.8	517.5	570.2	637.4	718.1	807.8	913.9	1034.9
82.5°	430.6	445.7	464.1	491.2	531.3	586.5	655.5	735.6	823.9	935.2	1058.2
85°	437.3	454.5	474.2	502.6	543.2	600.3	669.5	747.4	833.6	948.9	1072.3
87.5°	444.1	463.2	484.1	513.4	553.9	612.8	681.5	756.0	839.8	958.8	1081.5
90°	450.1	470.9	492.7	522.1	561.3	620.2	686.7	756.4	836.0	953.7	1073.6
92.5°	444.1	463.2	484.1	513.4	553.9	612.8	681.5	756.0	839.8	958.8	1081.5
95°	437.3	454.5	474.2	502.6	543.2	600.3	669.5	747.4	833.6	948.9	1072.3
97.5°	430.6	445.7	464.1	491.2	531.3	586.5	655.5	735.6	823.9	935.2	1058.2
100°	423.8	436.7	453.5	478.8	517.5	570.2	637.4	718.1	807.8	913.9	1034.9
102.5°	417.0	427.7	442.5	465.4	501.5	551.4	615.1	694.3	785.0	885.2	1002.4
105°	410.4	418.8	431.3	451.0	483.2	530.2	588.4	664.2	757.5	856.5	974.4
107.5°	404.1	410.1	419.7	435.7	463.3	510.7	565.4	638.8	728.4	827.0	937.5
110°	395.6	399.0	406.4	421.2	447.5	488.9	542.8	609.9	691.7	787.9	894.4



TEST NUMBER: P232051

CATALOG NUMBER: FVS4WM-3-LD4-50-1HI-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°	380.6	385.0	392.9	406.6	429.9	465.9	515.1	576.1	650.6	741.5	840.8
115°	364.6	369.9	378.0	390.3	409.5	440.8	486.0	543.0	610.3	687.7	781.1
117.5°	346.9	353.5	361.8	372.8	390.4	418.0	456.1	504.4	566.1	635.6	716.4
120°	327.1	335.5	344.7	355.8	370.7	391.9	424.7	467.8	520.6	583.1	655.8
122.5°	305.9	315.4	326.0	337.0	349.7	368.4	395.0	429.8	477.3	536.4	601.1
125°	282.9	292.8	306.3	316.9	329.4	344.2	367.2	401.4	441.7	488.6	545.8
127.5°	258.0	268.2	281.3	295.1	311.5	327.5	347.9	372.9	407.4	446.9	491.6
130°	231.5	245.7	261.4	279.0	294.9	310.6	328.0	349.1	373.9	407.0	443.4
132.5°	218.0	231.7	246.1	261.4	277.5	292.6	308.2	325.7	346.2	368.9	399.2
135°	205.0	217.9	231.1	244.3	258.7	273.3	287.7	302.6	319.7	338.3	359.7
137.5°	192.5	203.4	215.8	228.2	240.2	253.3	266.3	279.8	294.4	309.3	325.6
140°	179.2	189.3	200.1	211.7	223.0	233.8	245.2	256.7	268.6	281.0	294.0
142.5°	166.0	174.8	184.5	194.6	205.4	215.6	225.2	234.7	244.7	254.9	264.8
145°	151.8	160.1	168.7	177.7	186.9	196.7	206.1	214.5	222.4	229.7	236.6
147.5°	138.4	144.3	152.4	160.5	168.8	176.9	185.6	193.8	200.3	205.8	210.6
150°	125.2	129.7	134.9	142.6	150.2	157.9	165.2	171.6	177.7	182.9	187.6
152.5°	111.9	115.3	119.8	125.8	133.2	140.5	147.7	152.7	157.7	161.9	165.7
155°	101.6	105.9	110.8	115.5	120.7	125.6	131.1	136.2	140.5	144.3	147.6
157.5°	93.5	97.5	101.6	105.8	110.1	114.4	118.6	122.5	126.2	129.7	132.5
160°	84.7	88.3	91.8	95.4	99.2	103.1	106.9	110.5	113.8	116.9	119.7
162.5°	74.8	78.6	81.4	84.6	87.6	90.6	93.7	97.0	100.2	103.3	106.4
165°	64.3	67.3	70.1	72.9	75.6	78.1	80.6	83.0	85.3	87.4	89.6
167.5°	53.2	55.8	58.3	60.6	62.9	65.0	67.0	68.9	70.7	72.4	74.0
170°	41.5	43.6	45.7	47.7	49.5	51.3	53.0	54.6	56.0	57.3	58.5
172.5°	29.9	31.3	32.8	34.1	35.4	36.8	38.0	39.2	40.3	41.4	42.3
175°	18.2	19.2	20.2	21.1	21.9	22.7	23.5	24.2	24.8	25.4	25.9
177.5°	9.0	9.3	9.6	9.8	10.1	10.3	10.5	10.7	10.9	11.0	11.2
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: P232051

CATALOG NUMBER: FVS4WM-3-LD4-50-1HI-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°	11.3	11.4	11.4	11.5	11.5	11.5	11.8	11.7	11.5	11.4	11.2
5°	26.4	26.8	27.1	27.4	27.7	27.8	27.9	28.0	28.4	28.1	27.8
7.5°	43.1	43.9	44.6	45.1	45.6	46.0	46.3	46.5	46.5	47.0	46.6
10°	59.6	60.5	61.4	62.1	62.8	63.3	63.6	63.9	64.0	64.6	64.1
12.5°	75.6	77.0	78.3	79.4	80.4	81.3	82.0	82.6	83.0	83.2	83.6
15°	92.0	94.2	96.3	98.2	100.0	101.6	103.0	104.2	105.2	106.0	107.1
17.5°	109.1	111.2	113.1	114.9	116.4	117.7	118.8	119.6	120.3	120.8	121.5
20°	122.3	124.5	126.1	127.2	128.0	128.4	128.5	128.3	127.8	127.2	126.5
22.5°	134.8	136.6	138.0	139.2	139.8	140.1	139.9	139.3	138.3	137.1	135.9
25°	150.3	152.3	153.7	154.8	155.3	155.3	154.7	153.5	151.9	149.8	147.4
27.5°	168.9	171.2	172.8	174.1	175.3	175.9	176.0	175.5	174.4	172.8	170.6
30°	190.8	194.0	196.6	198.5	201.6	204.1	206.0	207.2	207.7	207.5	206.4
32.5°	215.2	220.6	225.5	229.9	235.2	241.0	246.2	250.5	253.9	256.3	257.6
35°	243.1	251.3	260.0	268.4	276.7	285.7	293.9	301.1	307.2	312.0	315.4
37.5°	275.0	285.8	298.4	310.6	322.3	335.2	347.7	359.0	369.1	377.5	384.2
40°	308.9	323.4	339.9	356.9	373.5	392.0	411.5	429.2	444.9	458.2	469.0
42.5°	344.4	363.7	385.2	411.7	437.2	462.0	488.2	512.2	533.8	552.7	568.3
45°	383.1	413.1	442.5	475.7	508.8	544.0	575.8	609.2	639.5	666.2	688.8
47.5°	432.1	468.8	506.2	545.9	590.3	633.5	677.6	720.4	759.3	793.6	822.7
50°	485.3	529.1	579.0	627.5	681.4	736.2	791.1	848.1	899.5	944.6	982.8
52.5°	543.7	598.8	658.7	719.1	786.7	857.2	926.1	993.5	1050.3	1096.6	1132.7
55°	606.4	673.0	744.5	825.4	907.9	997.1	1078.5	1143.1	1192.4	1228.2	1252.0
57.5°	671.4	753.1	841.2	939.3	1044.3	1136.2	1227.1	1278.9	1310.4	1332.0	1344.6
60°	742.1	836.7	941.5	1049.2	1157.4	1252.1	1330.1	1378.4	1393.0	1403.9	1410.9
62.5°	811.5	918.4	1032.2	1148.6	1250.8	1338.2	1394.9	1434.4	1449.7	1460.8	1467.5
65°	881.8	990.9	1113.2	1231.5	1331.0	1406.0	1453.4	1484.9	1498.6	1508.1	1516.0
67.5°	948.5	1065.6	1190.6	1312.4	1410.5	1472.7	1507.9	1524.1	1535.7	1549.2	1558.7
70°	1009.1	1135.1	1265.0	1392.3	1482.2	1523.4	1545.9	1561.2	1575.0	1583.1	1592.3
72.5°	1060.9	1192.0	1326.6	1443.8	1521.9	1559.1	1576.0	1591.0	1602.3	1609.1	1619.4
75°	1102.4	1236.9	1370.5	1483.0	1552.9	1582.8	1601.9	1615.5	1625.0	1635.4	1643.0
77.5°	1131.8	1268.8	1410.0	1518.3	1578.2	1606.5	1622.2	1630.8	1645.5	1656.9	1666.1
80°	1162.4	1298.8	1439.7	1551.9	1606.6	1625.6	1632.2	1647.5	1661.4	1672.1	1685.0
82.5°	1188.1	1329.7	1469.0	1570.6	1618.7	1632.7	1642.1	1659.2	1672.3	1694.7	1701.2
85°	1203.5	1347.6	1487.5	1582.5	1621.0	1634.8	1649.3	1668.3	1678.8	1695.9	1709.4
87.5°	1213.5	1352.6	1494.1	1588.8	1622.1	1636.9	1651.9	1670.2	1676.9	1697.7	1709.9
90°	1203.3	1345.0	1487.8	1587.0	1620.7	1638.2	1651.3	1667.6	1677.4	1702.5	1703.6
92.5°	1213.5	1352.6	1494.1	1588.8	1622.1	1636.9	1651.9	1670.2	1676.9	1697.7	1709.9
95°	1203.5	1347.6	1487.5	1582.5	1621.0	1634.8	1649.3	1668.3	1678.8	1695.9	1709.4
97.5°	1188.1	1329.7	1469.0	1570.6	1618.7	1632.7	1642.1	1659.2	1672.3	1694.7	1701.2
100°	1162.4	1298.8	1439.7	1551.9	1606.6	1625.6	1632.2	1647.5	1661.4	1672.1	1685.0
102.5°	1131.8	1268.8	1410.0	1518.3	1578.2	1606.5	1622.2	1630.8	1645.5	1656.9	1666.1
105°	1102.4	1236.9	1370.5	1483.0	1552.9	1582.8	1601.9	1615.5	1625.0	1635.4	1643.0
107.5°	1060.9	1192.0	1326.6	1443.8	1521.9	1559.1	1576.0	1591.0	1602.3	1609.1	1619.4
110°	1009.1	1135.1	1265.0	1392.3	1482.2	1523.4	1545.9	1561.2	1575.0	1583.1	1592.3



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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°	948.5	1065.6	1190.6	1312.4	1410.5	1472.7	1507.9	1524.1	1535.7	1549.2	1558.7
115°	881.8	990.9	1113.2	1231.5	1331.0	1406.0	1453.4	1484.9	1498.6	1508.1	1516.0
117.5°	811.5	918.4	1032.2	1148.6	1250.8	1338.2	1394.9	1434.4	1449.7	1460.8	1467.5
120°	742.1	836.7	941.5	1049.2	1157.4	1252.1	1330.1	1378.4	1393.0	1403.9	1410.9
122.5°	671.4	753.1	841.2	939.3	1044.3	1136.2	1227.1	1278.9	1310.4	1332.0	1344.6
125°	606.4	673.0	744.5	825.4	907.9	997.1	1078.5	1143.1	1192.4	1228.2	1252.0
127.5°	543.7	598.8	658.7	719.1	786.7	857.2	926.1	993.5	1050.3	1096.6	1132.7
130°	485.3	529.1	579.0	627.5	681.4	736.2	791.1	848.1	899.5	944.6	982.8
132.5°	432.1	468.8	506.2	545.9	590.3	633.5	677.6	720.4	759.3	793.6	822.7
135°	383.1	413.1	442.5	475.7	508.8	544.0	575.8	609.2	639.5	666.2	688.8
137.5°	344.4	363.7	385.2	411.7	437.2	462.0	488.2	512.2	533.8	552.7	568.3
140°	308.9	323.4	339.9	356.9	373.5	392.0	411.5	429.2	444.9	458.2	469.0
142.5°	275.0	285.8	298.4	310.6	322.3	335.2	347.7	359.0	369.1	377.5	384.2
145°	243.1	251.3	260.0	268.4	276.7	285.7	293.9	301.1	307.2	312.0	315.4
147.5°	215.2	220.6	225.5	229.9	235.2	241.0	246.2	250.5	253.9	256.3	257.6
150°	190.8	194.0	196.6	198.5	201.6	204.1	206.0	207.2	207.7	207.5	206.4
152.5°	168.9	171.2	172.8	174.1	175.3	175.9	176.0	175.5	174.4	172.8	170.6
155°	150.3	152.3	153.7	154.8	155.3	155.3	154.7	153.5	151.9	149.8	147.4
157.5°	134.8	136.6	138.0	139.2	139.8	140.1	139.9	139.3	138.3	137.1	135.9
160°	122.3	124.5	126.1	127.2	128.0	128.4	128.5	128.3	127.8	127.2	126.5
162.5°	109.1	111.2	113.1	114.9	116.4	117.7	118.8	119.6	120.3	120.8	121.5
165°	92.0	94.2	96.3	98.2	100.0	101.6	103.0	104.2	105.2	106.0	107.1
167.5°	75.6	77.0	78.3	79.4	80.4	81.3	82.0	82.6	83.0	83.2	83.6
170°	59.6	60.5	61.4	62.1	62.8	63.3	63.6	63.9	64.0	64.6	64.1
172.5°	43.1	43.9	44.6	45.1	45.6	46.0	46.3	46.5	46.5	47.0	46.6
175°	26.4	26.8	27.1	27.4	27.7	27.8	27.9	28.0	28.4	28.1	27.8
177.5°	11.3	11.4	11.4	11.5	11.5	11.5	11.8	11.7	11.5	11.4	11.2
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°	11.1	10.9
5°	27.5	27.2
7.5°	46.2	45.8
10°	63.7	63.2
12.5°	83.2	82.8
15°	106.9	106.8
17.5°	121.2	121.0
20°	125.4	124.3
22.5°	133.9	131.9
25°	144.8	141.7
27.5°	168.1	164.6
30°	204.9	201.6
32.5°	258.3	256.1
35°	318.0	317.2
37.5°	390.1	391.3
40°	478.5	481.8
42.5°	582.5	588.6
45°	709.5	719.4
47.5°	849.5	863.2
50°	1017.7	1035.4
52.5°	1163.6	1177.1
55°	1268.8	1270.9
57.5°	1352.1	1347.2
60°	1415.9	1411.5
62.5°	1469.6	1467.1
65°	1521.3	1522.7
67.5°	1563.6	1564.1
70°	1599.9	1604.4
72.5°	1624.9	1626.2
75°	1646.9	1646.9
77.5°	1673.2	1676.3
80°	1691.7	1696.0
82.5°	1703.8	1705.8
85°	1716.9	1718.8
87.5°	1717.3	1724.3
90°	1713.4	1721.0
92.5°	1717.3	1724.3
95°	1716.9	1718.8
97.5°	1703.8	1705.8
100°	1691.7	1696.0
102.5°	1673.2	1676.3
105°	1646.9	1646.9
107.5°	1624.9	1626.2
110°	1599.9	1604.4



TEST NUMBER: P232051

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CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1563.6	1564.1
115°	1521.3	1522.7
117.5°	1469.6	1467.1
120°	1415.9	1411.5
122.5°	1352.1	1347.2
125°	1268.8	1270.9
127.5°	1163.6	1177.1
130°	1017.7	1035.4
132.5°	849.5	863.2
135°	709.5	719.4
137.5°	582.5	588.6
140°	478.5	481.8
142.5°	390.1	391.3
145°	318.0	317.2
147.5°	258.3	256.1
150°	204.9	201.6
152.5°	168.1	164.6
155°	144.8	141.7
157.5°	133.9	131.9
160°	125.4	124.3
162.5°	121.2	121.0
165°	106.9	106.8
167.5°	83.2	82.8
170°	63.7	63.2
172.5°	46.2	45.8
175°	27.5	27.2
177.5°	11.1	10.9
180°	0.0	0.0

(END OF REPORT)