

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: P232012

Luminaire Tested: **FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-20)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
4FT LENGTH, 2-MODULE LED WITH PA187 LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

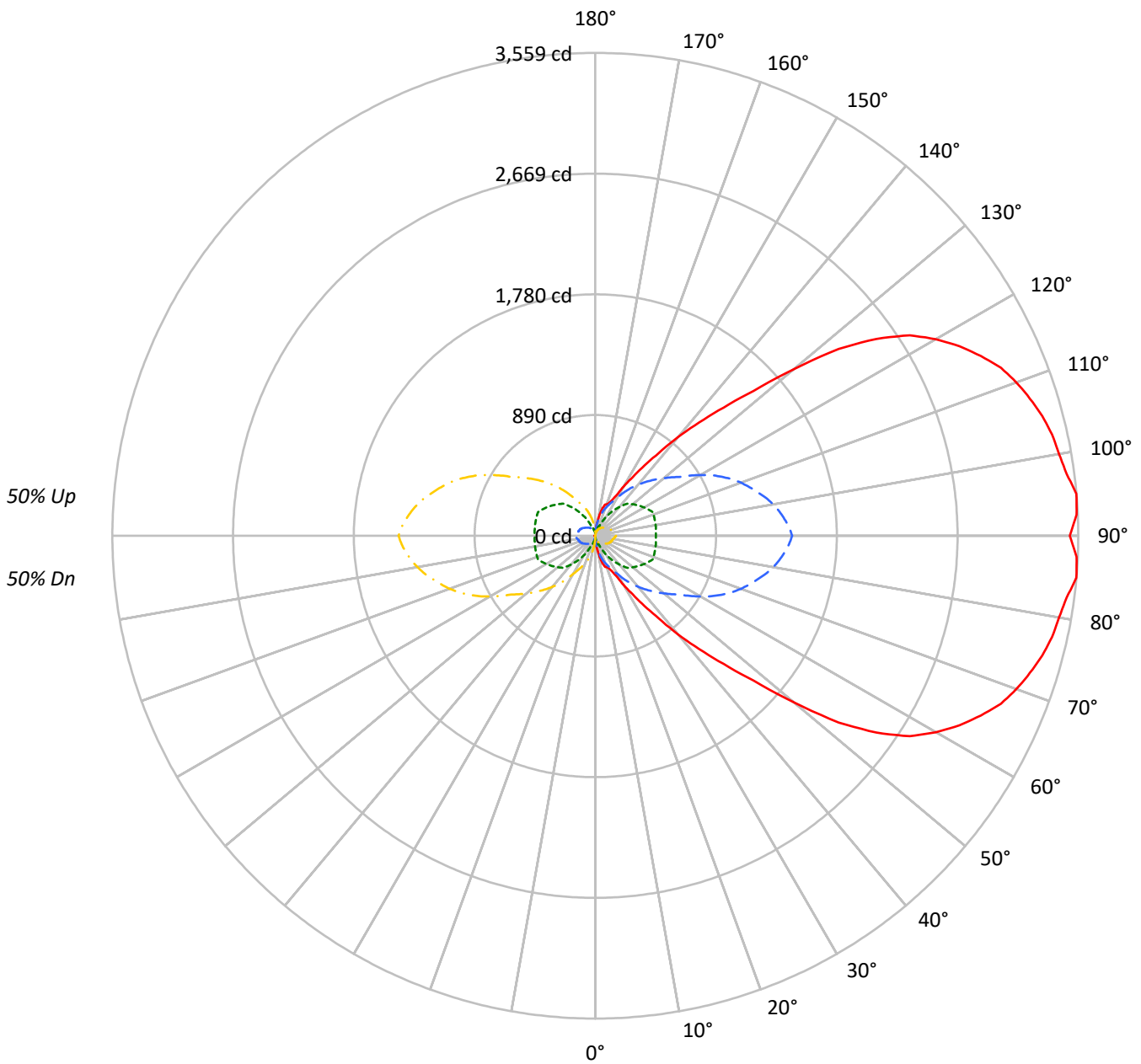
Lumens per Lamp: N/A
Luminaire Lumens: 8100.4 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 21.28 / 13.39 / 14.43
Luminous Opening: Rectangular w/ Sides (W: 3.79' x L: 0.19' x H: 0.31')
CIE Type: General Diffuse

Input Watts (W): 89.3
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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CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	91	84	77	71	83	76	70	65	63	58	54	50	47	43	39	36	34	28
2	80	69	60	53	72	63	55	48	51	45	39	40	35	31	30	26	23	18
3	71	59	49	41	64	53	44	37	43	36	30	33	28	23	25	20	17	12
4	64	50	40	33	58	46	37	30	37	30	24	28	23	18	21	16	13	9
5	58	44	34	27	53	40	31	24	32	25	19	25	19	15	18	14	10	6
6	53	39	29	22	48	35	27	20	28	21	16	22	16	12	16	12	8	5
7	49	35	25	19	44	32	23	17	25	19	14	20	14	10	14	10	7	4
8	45	31	22	16	41	28	20	15	23	16	12	18	12	9	13	9	6	3
9	42	28	20	14	38	26	18	13	21	14	10	16	11	7	12	8	5	2
10	39	26	18	12	35	23	16	11	19	13	9	15	10	6	11	7	4	2

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	44	44	44	44
5°	765	293	25	293
10°	1543	543	23	543
15°	2314	802	21	802
20°	2451	1076	19	1076
25°	2686	1697	18	1697
30°	3746	2714	17	2714
35°	5399	3839	16	3839
40°	7817	5115	16	5115
45°	10722	6603	23	6603
50°	15078	7747	23	7747
55°	19758	9177	23	9177
60°	22568	11021	23	11021
65°	24548	13496	30	13496
70°	26205	16452	30	16452
75°	27623	20288	31	20288
80°	28939	26803	0	26803
85°	30832	40146	0	40146



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.0
10°-20°	26.7	0.3
20°-30°	70.8	0.9
30°-40°	163.0	2.0
40°-50°	321.1	4.0
50°-60°	569.6	7.0
60°-70°	821.8	10.1
70°-80°	993.8	12.3
80°-90°	1079.6	13.3
90°-100°	1079.6	13.3
100°-110°	993.8	12.3
110°-120°	821.8	10.1
120°-130°	569.6	7.0
130°-140°	321.1	4.0
140°-150°	163.0	2.0
150°-160°	70.8	0.9
160°-170°	26.7	0.3
170°-180°	3.8	0.0
0°-30°	101.3	1.3
0°-40°	264.3	3.3
0°-60°	1155.0	14.3
0°-90°	4050.2	50.0
90°-120°	2895.2	35.7
90°-150°	3948.9	48.7
90°-180°	4050.0	50.0
0°-180°	8100.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3	3	3	3	3	
5°	58	19	2	19	58	8
15°	214	52	2	52	214	60
25°	286	106	2	106	286	143
35°	633	220	2	220	633	414
45°	1335	334	3	334	1335	1070
55°	2530	389	3	389	2530	2239
65°	3134	443	4	443	3134	3103
75°	3409	454	4	454	3409	3598
85°	3559	449	0	449	3559	2879
90°	3496	446	0	446	3496	1931
95°	3559	449	0	449	3559	2879
105°	3409	454	4	454	3409	3598
115°	3134	443	4	443	3134	3103
125°	2530	389	3	389	2530	2239
135°	1335	334	3	334	1335	1070
145°	633	220	2	220	633	414
155°	286	106	2	106	286	143
165°	214	52	2	52	214	60
175°	58	19	2	19	58	8
180°	2	2	2	2	2	



TEST NUMBER: P232012

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
2.5°	27.9	28.2	28.6	28.9	29.3	29.6	29.9	29.1	29.1	29.0	28.9
5°	57.7	58.4	59.1	59.8	60.5	59.8	59.9	59.8	59.6	59.3	58.9
7.5°	98.1	98.9	99.8	100.6	99.6	99.5	99.1	98.5	97.7	96.7	95.5
10°	129.9	131.0	132.0	133.1	132.2	132.1	131.8	131.3	130.6	129.6	128.3
12.5°	176.1	176.9	177.7	176.6	175.9	174.8	173.4	171.6	169.5	167.1	164.3
15°	213.6	214.2	214.8	213.5	212.6	211.4	209.8	207.8	205.5	202.9	200.0
17.5°	241.5	242.5	243.5	242.6	242.2	241.3	240.0	238.3	236.1	233.5	230.4
20°	244.4	247.2	249.9	252.1	254.2	255.9	257.2	257.9	258.1	257.6	256.5
22.5°	260.7	265.2	269.7	272.5	275.5	277.9	279.5	280.4	280.5	279.7	278.0
25°	285.7	291.7	296.6	301.2	305.0	308.0	310.2	311.5	311.8	311.2	309.6
27.5°	334.8	341.3	345.5	349.2	351.7	353.2	353.7	353.0	351.4	348.7	346.2
30°	420.4	425.3	426.2	426.2	424.6	421.5	417.0	411.3	404.6	396.9	392.6
32.5°	510.8	514.6	513.6	511.5	507.4	501.2	493.3	483.7	472.6	461.1	450.5
35°	633.0	634.7	629.3	622.4	612.5	599.9	584.7	567.3	547.8	531.7	515.6
37.5°	766.7	766.4	757.4	746.7	732.2	714.2	693.1	669.1	643.1	618.3	592.0
40°	948.6	944.5	927.6	908.3	883.8	854.5	820.9	783.7	748.3	715.3	680.3
42.5°	1131.3	1124.7	1104.0	1080.2	1050.1	1014.1	972.6	926.0	878.7	829.4	777.8
45°	1335.3	1330.3	1307.2	1279.3	1242.1	1195.6	1139.9	1083.4	1020.3	959.2	896.8
47.5°	1579.7	1574.2	1545.6	1511.4	1466.1	1410.1	1343.7	1270.8	1192.6	1105.7	1031.4
50°	1911.6	1901.3	1857.5	1806.8	1741.8	1663.4	1573.0	1484.9	1392.6	1291.0	1194.1
52.5°	2260.8	2234.4	2172.0	2105.2	2027.3	1941.3	1849.6	1737.4	1609.3	1480.2	1365.1
55°	2530.1	2494.6	2427.6	2355.5	2272.0	2178.8	2075.8	1962.1	1836.3	1689.9	1537.6
57.5°	2749.5	2702.9	2629.0	2551.8	2466.3	2374.5	2269.0	2153.2	2036.6	1882.1	1723.1
60°	2896.7	2846.8	2775.0	2698.8	2613.2	2519.1	2417.8	2315.6	2196.8	2055.8	1895.8
62.5°	3025.6	2969.0	2901.5	2823.2	2734.4	2636.9	2540.2	2437.7	2323.6	2204.3	2047.9
65°	3134.3	3079.9	3014.3	2936.7	2846.8	2749.7	2648.0	2540.9	2424.9	2301.8	2172.5
67.5°	3235.3	3184.0	3120.4	3043.5	2952.7	2852.1	2744.0	2630.0	2511.9	2385.0	2254.6
70°	3302.7	3262.3	3209.4	3140.7	3049.7	2941.6	2828.4	2707.5	2582.6	2461.8	2338.4
72.5°	3358.5	3338.0	3300.4	3238.6	3129.5	3012.7	2895.6	2771.8	2650.4	2530.6	2411.4
75°	3409.4	3399.5	3376.2	3310.7	3195.8	3067.6	2942.4	2830.8	2713.3	2587.1	2464.3
77.5°	3447.9	3442.3	3427.4	3349.2	3237.3	3108.5	2993.0	2879.5	2760.3	2632.8	2502.1
80°	3469.1	3477.3	3456.0	3378.7	3267.9	3157.2	3037.5	2919.0	2794.7	2664.7	2530.3
82.5°	3501.8	3505.7	3473.9	3419.5	3315.2	3198.0	3069.2	2939.1	2816.2	2691.2	2561.8
85°	3558.6	3515.3	3460.4	3439.5	3349.4	3221.9	3093.6	2966.2	2839.0	2708.6	2581.0
87.5°	3549.9	3491.2	3498.4	3462.0	3361.2	3230.6	3102.6	2981.4	2850.2	2711.5	2587.4
90°	3496.0	3498.9	3515.3	3469.1	3339.2	3214.1	3088.1	2979.4	2846.7	2700.4	2581.1
92.5°	3549.9	3491.2	3498.4	3462.0	3361.2	3230.6	3102.6	2981.4	2850.2	2711.5	2587.4
95°	3558.6	3515.3	3460.4	3439.5	3349.4	3221.9	3093.6	2966.2	2839.0	2708.6	2581.0
97.5°	3501.8	3505.7	3473.9	3419.5	3315.2	3198.0	3069.2	2939.1	2816.2	2691.2	2561.8
100°	3469.1	3477.3	3456.0	3378.7	3267.9	3157.2	3037.5	2919.0	2794.7	2664.7	2530.3
102.5°	3447.9	3442.3	3427.4	3349.2	3237.3	3108.5	2993.0	2879.5	2760.3	2632.8	2502.1
105°	3409.4	3399.5	3376.2	3310.7	3195.8	3067.6	2942.4	2830.8	2713.3	2587.1	2464.3
107.5°	3358.5	3338.0	3300.4	3238.6	3129.5	3012.7	2895.6	2771.8	2650.4	2530.6	2411.4
110°	3302.7	3262.3	3209.4	3140.7	3049.7	2941.6	2828.4	2707.5	2582.6	2461.8	2338.4



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CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	3235.3	3184.0	3120.4	3043.5	2952.7	2852.1	2744.0	2630.0	2511.9	2385.0	2254.6
115°	3134.3	3079.9	3014.3	2936.7	2846.8	2749.7	2648.0	2540.9	2424.9	2301.8	2172.5
117.5°	3025.6	2969.0	2901.5	2823.2	2734.4	2636.9	2540.2	2437.7	2323.6	2204.3	2047.9
120°	2896.7	2846.8	2775.0	2698.8	2613.2	2519.1	2417.8	2315.6	2196.8	2055.8	1895.8
122.5°	2749.5	2702.9	2629.0	2551.8	2466.3	2374.5	2269.0	2153.2	2036.6	1882.1	1723.1
125°	2530.1	2494.6	2427.6	2355.5	2272.0	2178.8	2075.8	1962.1	1836.3	1689.9	1537.6
127.5°	2260.8	2234.4	2172.0	2105.2	2027.3	1941.3	1849.6	1737.4	1609.3	1480.2	1365.1
130°	1911.6	1901.3	1857.5	1806.8	1741.8	1663.4	1573.0	1484.9	1392.6	1291.0	1194.1
132.5°	1579.7	1574.2	1545.6	1511.4	1466.1	1410.1	1343.7	1270.8	1192.6	1105.7	1031.4
135°	1335.3	1330.3	1307.2	1279.3	1242.1	1195.6	1139.9	1083.4	1020.3	959.2	896.8
137.5°	1131.3	1124.7	1104.0	1080.2	1050.1	1014.1	972.6	926.0	878.7	829.4	777.8
140°	948.6	944.5	927.6	908.3	883.8	854.5	820.9	783.7	748.3	715.3	680.3
142.5°	766.7	766.4	757.4	746.7	732.2	714.2	693.1	669.1	643.1	618.3	592.0
145°	633.0	634.7	629.3	622.4	612.5	599.9	584.7	567.3	547.8	531.7	515.6
147.5°	510.8	514.6	513.6	511.5	507.4	501.2	493.3	483.7	472.6	461.1	450.5
150°	420.4	425.3	426.2	426.2	424.6	421.5	417.0	411.3	404.6	396.9	392.6
152.5°	334.8	341.3	345.5	349.2	351.7	353.2	353.7	353.0	351.4	348.7	346.2
155°	285.7	291.7	296.6	301.2	305.0	308.0	310.2	311.5	311.8	311.2	309.6
157.5°	260.7	265.2	269.7	272.5	275.5	277.9	279.5	280.4	280.5	279.7	278.0
160°	244.4	247.2	249.9	252.1	254.2	255.9	257.2	257.9	258.1	257.6	256.5
162.5°	241.5	242.5	243.5	242.6	242.2	241.3	240.0	238.3	236.1	233.5	230.4
165°	213.6	214.2	214.8	213.5	212.6	211.4	209.8	207.8	205.5	202.9	200.0
167.5°	176.1	176.9	177.7	176.6	175.9	174.8	173.4	171.6	169.5	167.1	164.3
170°	129.9	131.0	132.0	133.1	132.2	132.1	131.8	131.3	130.6	129.6	128.3
172.5°	98.1	98.9	99.8	100.6	99.6	99.5	99.1	98.5	97.7	96.7	95.5
175°	57.7	58.4	59.1	59.8	60.5	59.8	59.9	59.8	59.6	59.3	58.9
177.5°	27.9	28.2	28.6	28.9	29.3	29.6	29.9	29.1	29.1	29.0	28.9
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
2.5°	28.7	28.5	28.2	27.9	27.5	27.1	26.7	26.2	25.6	25.1	24.4
5°	58.4	57.7	57.0	56.1	55.1	54.0	52.8	51.5	50.0	48.5	46.9
7.5°	94.1	92.5	90.7	88.8	86.7	84.4	81.9	79.3	76.6	74.1	71.7
10°	126.9	125.2	123.4	121.3	119.0	116.5	113.5	110.0	106.3	102.5	98.5
12.5°	161.3	158.0	154.4	150.6	146.9	143.7	140.3	136.7	132.9	128.8	124.5
15°	196.7	193.2	189.4	184.9	179.8	174.5	169.1	163.4	157.6	152.6	147.5
17.5°	226.8	222.8	218.3	213.4	208.3	202.9	197.4	191.3	184.6	177.7	170.7
20°	254.6	250.9	245.9	240.4	234.4	227.9	221.3	214.7	208.0	201.0	193.5
22.5°	275.9	273.7	270.6	266.3	261.0	254.0	246.1	237.6	228.8	221.0	213.2
25°	307.4	304.0	299.4	293.5	287.4	280.5	272.2	262.6	252.5	241.8	231.8
27.5°	343.8	340.1	335.2	329.0	321.4	312.2	303.2	291.0	278.5	265.1	252.6
30°	387.3	381.0	374.9	367.4	359.3	349.8	338.1	324.7	312.4	301.7	290.5
32.5°	439.4	427.8	418.5	409.5	399.5	388.9	378.6	367.7	355.4	342.4	330.3
35°	498.5	481.6	467.9	454.2	442.5	432.3	421.3	409.5	396.8	383.1	368.8
37.5°	564.4	542.3	521.1	505.0	490.2	476.2	463.5	450.7	437.0	422.3	407.0
40°	645.0	613.8	585.0	562.0	541.4	522.8	506.6	490.8	476.3	460.8	444.1
42.5°	734.7	697.0	659.8	627.6	597.7	573.0	550.8	532.6	514.4	498.3	481.0
45°	843.6	787.4	741.3	698.0	660.1	624.7	598.2	574.3	554.1	534.3	516.8
47.5°	964.4	896.8	833.6	773.2	726.4	683.4	646.2	617.8	593.5	571.4	550.9
50°	1095.3	1013.5	935.7	864.1	796.3	744.0	698.7	660.3	632.8	608.4	584.7
52.5°	1251.1	1143.1	1043.5	958.8	879.4	806.2	752.2	707.2	670.6	644.2	634.1
55°	1403.4	1279.7	1163.7	1055.1	964.6	880.6	804.9	755.2	726.3	708.7	704.3
57.5°	1559.4	1409.6	1281.2	1160.7	1049.8	956.4	881.7	826.0	790.0	769.2	765.3
60°	1715.1	1543.2	1388.5	1259.2	1145.4	1046.2	962.7	893.7	853.2	828.9	820.8
62.5°	1873.8	1671.0	1503.1	1363.6	1241.8	1129.3	1039.5	965.8	912.0	882.3	871.9
65°	2006.4	1825.1	1632.5	1468.7	1332.7	1212.6	1109.0	1028.2	968.1	935.9	924.2
67.5°	2124.9	1953.7	1765.2	1581.7	1416.1	1285.1	1174.5	1088.9	1025.5	986.4	971.6
70°	2204.6	2052.0	1882.4	1685.7	1505.7	1356.9	1236.9	1142.6	1074.9	1032.0	1014.6
72.5°	2277.7	2126.6	1954.7	1773.8	1592.8	1420.1	1289.6	1191.4	1118.3	1076.4	1057.6
75°	2335.3	2187.4	2018.3	1839.8	1669.3	1479.9	1341.7	1239.2	1166.3	1119.5	1095.1
77.5°	2382.8	2238.1	2066.2	1892.2	1723.5	1545.0	1396.3	1288.6	1211.1	1160.1	1131.9
80°	2409.9	2278.9	2120.2	1942.0	1766.8	1595.0	1441.5	1331.5	1252.1	1198.4	1167.9
82.5°	2434.1	2308.5	2163.4	1981.5	1800.5	1630.9	1477.8	1368.5	1289.4	1234.6	1203.3
85°	2449.9	2323.6	2195.0	2010.0	1824.4	1654.3	1506.3	1400.2	1323.4	1269.0	1238.0
87.5°	2456.2	2330.2	2220.9	2033.2	1843.2	1670.7	1530.5	1429.0	1355.7	1302.4	1272.4
90°	2452.2	2318.5	2221.3	2032.8	1842.3	1671.0	1544.1	1450.7	1383.4	1333.4	1305.5
92.5°	2456.2	2330.2	2220.9	2033.2	1843.2	1670.7	1530.5	1429.0	1355.7	1302.4	1272.4
95°	2449.9	2323.6	2195.0	2010.0	1824.4	1654.3	1506.3	1400.2	1323.4	1269.0	1238.0
97.5°	2434.1	2308.5	2163.4	1981.5	1800.5	1630.9	1477.8	1368.5	1289.4	1234.6	1203.3
100°	2409.9	2278.9	2120.2	1942.0	1766.8	1595.0	1441.5	1331.5	1252.1	1198.4	1167.9
102.5°	2382.8	2238.1	2066.2	1892.2	1723.5	1545.0	1396.3	1288.6	1211.1	1160.1	1131.9
105°	2335.3	2187.4	2018.3	1839.8	1669.3	1479.9	1341.7	1239.2	1166.3	1119.5	1095.1
107.5°	2277.7	2126.6	1954.7	1773.8	1592.8	1420.1	1289.6	1191.4	1118.3	1076.4	1057.6
110°	2204.6	2052.0	1882.4	1685.7	1505.7	1356.9	1236.9	1142.6	1074.9	1032.0	1014.6



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	2124.9	1953.7	1765.2	1581.7	1416.1	1285.1	1174.5	1088.9	1025.5	986.4	971.6
115°	2006.4	1825.1	1632.5	1468.7	1332.7	1212.6	1109.0	1028.2	968.1	935.9	924.2
117.5°	1873.8	1671.0	1503.1	1363.6	1241.8	1129.3	1039.5	965.8	912.0	882.3	871.9
120°	1715.1	1543.2	1388.5	1259.2	1145.4	1046.2	962.7	893.7	853.2	828.9	820.8
122.5°	1559.4	1409.6	1281.2	1160.7	1049.8	956.4	881.7	826.0	790.0	769.2	765.3
125°	1403.4	1279.7	1163.7	1055.1	964.6	880.6	804.9	755.2	726.3	708.7	704.3
127.5°	1251.1	1143.1	1043.5	958.8	879.4	806.2	752.2	707.2	670.6	644.2	634.1
130°	1095.3	1013.5	935.7	864.1	796.3	744.0	698.7	660.3	632.8	608.4	584.7
132.5°	964.4	896.8	833.6	773.2	726.4	683.4	646.2	617.8	593.5	571.4	550.9
135°	843.6	787.4	741.3	698.0	660.1	624.7	598.2	574.3	554.1	534.3	516.8
137.5°	734.7	697.0	659.8	627.6	597.7	573.0	550.8	532.6	514.4	498.3	481.0
140°	645.0	613.8	585.0	562.0	541.4	522.8	506.6	490.8	476.3	460.8	444.1
142.5°	564.4	542.3	521.1	505.0	490.2	476.2	463.5	450.7	437.0	422.3	407.0
145°	498.5	481.6	467.9	454.2	442.5	432.3	421.3	409.5	396.8	383.1	368.8
147.5°	439.4	427.8	418.5	409.5	399.5	388.9	378.6	367.7	355.4	342.4	330.3
150°	387.3	381.0	374.9	367.4	359.3	349.8	338.1	324.7	312.4	301.7	290.5
152.5°	343.8	340.1	335.2	329.0	321.4	312.2	303.2	291.0	278.5	265.1	252.6
155°	307.4	304.0	299.4	293.5	287.4	280.5	272.2	262.6	252.5	241.8	231.8
157.5°	275.9	273.7	270.6	266.3	261.0	254.0	246.1	237.6	228.8	221.0	213.2
160°	254.6	250.9	245.9	240.4	234.4	227.9	221.3	214.7	208.0	201.0	193.5
162.5°	226.8	222.8	218.3	213.4	208.3	202.9	197.4	191.3	184.6	177.7	170.7
165°	196.7	193.2	189.4	184.9	179.8	174.5	169.1	163.4	157.6	152.6	147.5
167.5°	161.3	158.0	154.4	150.6	146.9	143.7	140.3	136.7	132.9	128.8	124.5
170°	126.9	125.2	123.4	121.3	119.0	116.5	113.5	110.0	106.3	102.5	98.5
172.5°	94.1	92.5	90.7	88.8	86.7	84.4	81.9	79.3	76.6	74.1	71.7
175°	58.4	57.7	57.0	56.1	55.1	54.0	52.8	51.5	50.0	48.5	46.9
177.5°	28.7	28.5	28.2	27.9	27.5	27.1	26.7	26.2	25.6	25.1	24.4
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
2.5°	23.8	23.1	22.3	21.6	20.8	19.9	19.0	18.1	17.2	16.3	15.3
5°	45.1	43.3	41.4	39.9	38.3	36.6	34.9	33.1	31.3	29.4	27.5
7.5°	69.1	66.3	63.4	60.4	57.3	54.0	50.6	47.8	45.2	42.4	39.6
10°	94.4	90.1	85.9	81.6	77.4	73.0	68.5	63.8	59.0	55.1	51.4
12.5°	119.6	114.4	109.0	103.5	97.8	92.2	86.5	80.6	74.5	68.3	63.2
15°	142.2	136.6	131.6	124.4	117.9	111.3	104.6	97.5	90.2	82.7	75.0
17.5°	164.5	157.3	150.6	143.8	136.7	129.3	121.8	114.3	105.9	97.1	88.0
20°	185.7	177.8	170.0	162.2	154.2	146.0	137.9	129.8	121.5	111.5	101.1
22.5°	205.3	196.9	188.5	180.1	171.3	162.2	152.9	144.2	135.5	126.0	114.3
25°	222.3	213.7	205.0	196.2	191.0	184.9	178.1	171.1	164.1	156.7	146.2
27.5°	244.3	238.8	234.5	230.0	225.2	220.0	213.4	206.2	198.6	190.5	180.6
30°	281.6	273.3	266.8	262.4	257.7	252.9	247.5	240.4	233.4	224.2	215.2
32.5°	318.2	308.2	299.6	293.3	288.9	284.3	279.6	273.5	266.3	257.6	247.9
35°	355.4	342.5	332.4	323.9	318.6	314.4	310.2	306.2	298.8	290.8	280.6
37.5°	391.6	377.5	364.0	355.0	347.5	343.4	339.7	336.0	330.5	323.7	313.1
40°	427.5	411.0	397.0	384.2	376.5	371.1	368.0	365.2	361.4	355.2	345.4
42.5°	462.3	444.8	428.1	414.5	404.6	397.7	395.4	393.3	391.3	386.1	377.6
45°	497.4	477.1	459.5	444.1	431.1	425.1	421.8	420.6	419.7	416.3	409.6
47.5°	531.9	510.2	490.0	473.2	459.0	454.8	455.6	455.8	453.7	447.9	438.2
50°	564.2	546.1	541.8	538.7	532.8	523.7	513.6	504.8	494.4	482.1	466.8
52.5°	628.2	628.3	630.7	629.1	618.6	599.8	578.8	558.2	538.4	518.3	496.4
55°	700.1	703.5	711.9	721.4	708.6	682.1	649.5	615.8	585.2	556.5	527.5
57.5°	767.1	773.0	785.7	807.4	799.0	768.8	725.2	677.1	635.2	597.0	559.9
60°	828.3	838.0	856.0	884.0	890.6	859.4	805.6	742.4	688.6	639.4	593.5
62.5°	883.8	899.9	922.2	955.1	983.4	953.6	889.3	813.0	744.6	683.5	628.1
65°	934.3	957.5	984.5	1021.4	1076.3	1045.4	975.0	886.4	802.6	729.1	663.4
67.5°	980.3	1011.2	1043.4	1086.0	1149.8	1135.4	1062.7	962.2	862.4	775.8	699.5
70°	1023.7	1061.4	1101.4	1146.7	1202.7	1192.5	1111.1	999.7	887.6	792.6	710.1
72.5°	1061.9	1089.9	1127.0	1163.1	1200.9	1194.5	1117.8	1011.2	898.0	801.4	716.8
75°	1092.4	1112.3	1148.6	1183.4	1206.0	1196.7	1121.6	1020.4	907.1	809.4	722.9
77.5°	1123.9	1136.9	1170.1	1206.9	1216.8	1198.9	1122.8	1027.4	914.8	816.5	728.6
80°	1156.0	1163.4	1192.0	1233.2	1232.1	1200.7	1121.6	1032.4	921.1	822.7	733.8
82.5°	1188.7	1191.4	1214.3	1261.4	1250.5	1201.9	1118.4	1035.4	926.2	828.1	741.3
85°	1221.7	1220.6	1237.5	1290.8	1270.7	1205.4	1115.7	1039.6	932.3	834.3	743.7
87.5°	1255.1	1250.6	1260.9	1321.2	1292.3	1202.1	1107.1	1036.9	933.2	836.6	746.1
90°	1288.2	1281.4	1287.2	1350.7	1311.2	1198.7	1098.6	1034.2	934.1	838.9	748.5
92.5°	1255.1	1250.6	1260.9	1321.2	1292.3	1202.1	1107.1	1036.9	933.2	836.6	746.1
95°	1221.7	1220.6	1237.5	1290.8	1270.7	1205.4	1115.7	1039.6	932.3	834.3	743.7
97.5°	1188.7	1191.4	1214.3	1261.4	1250.5	1201.9	1118.4	1035.4	926.2	828.1	741.3
100°	1156.0	1163.4	1192.0	1233.2	1232.1	1200.7	1121.6	1032.4	921.1	822.7	733.8
102.5°	1123.9	1136.9	1170.1	1206.9	1216.8	1198.9	1122.8	1027.4	914.8	816.5	728.6
105°	1092.4	1112.3	1148.6	1183.4	1206.0	1196.7	1121.6	1020.4	907.1	809.4	722.9
107.5°	1061.9	1089.9	1127.0	1163.1	1200.9	1194.5	1117.8	1011.2	898.0	801.4	716.8
110°	1023.7	1061.4	1101.4	1146.7	1202.7	1192.5	1111.1	999.7	887.6	792.6	710.1



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	980.3	1011.2	1043.4	1086.0	1149.8	1135.4	1062.7	962.2	862.4	775.8	699.5
115°	934.3	957.5	984.5	1021.4	1076.3	1045.4	975.0	886.4	802.6	729.1	663.4
117.5°	883.8	899.9	922.2	955.1	983.4	953.6	889.3	813.0	744.6	683.5	628.1
120°	828.3	838.0	856.0	884.0	890.6	859.4	805.6	742.4	688.6	639.4	593.5
122.5°	767.1	773.0	785.7	807.4	799.0	768.8	725.2	677.1	635.2	597.0	559.9
125°	700.1	703.5	711.9	721.4	708.6	682.1	649.5	615.8	585.2	556.5	527.5
127.5°	628.2	628.3	630.7	629.1	618.6	599.8	578.8	558.2	538.4	518.3	496.4
130°	564.2	546.1	541.8	538.7	532.8	523.7	513.6	504.8	494.4	482.1	466.8
132.5°	531.9	510.2	490.0	473.2	459.0	454.8	455.6	455.8	453.7	447.9	438.2
135°	497.4	477.1	459.5	444.1	431.1	425.1	421.8	420.6	419.7	416.3	409.6
137.5°	462.3	444.8	428.1	414.5	404.6	397.7	395.4	393.3	391.3	386.1	377.6
140°	427.5	411.0	397.0	384.2	376.5	371.1	368.0	365.2	361.4	355.2	345.4
142.5°	391.6	377.5	364.0	355.0	347.5	343.4	339.7	336.0	330.5	323.7	313.1
145°	355.4	342.5	332.4	323.9	318.6	314.4	310.2	306.2	298.8	290.8	280.6
147.5°	318.2	308.2	299.6	293.3	288.9	284.3	279.6	273.5	266.3	257.6	247.9
150°	281.6	273.3	266.8	262.4	257.7	252.9	247.5	240.4	233.4	224.2	215.2
152.5°	244.3	238.8	234.5	230.0	225.2	220.0	213.4	206.2	198.6	190.5	180.6
155°	222.3	213.7	205.0	196.2	191.0	184.9	178.1	171.1	164.1	156.7	146.2
157.5°	205.3	196.9	188.5	180.1	171.3	162.2	152.9	144.2	135.5	126.0	114.3
160°	185.7	177.8	170.0	162.2	154.2	146.0	137.9	129.8	121.5	111.5	101.1
162.5°	164.5	157.3	150.6	143.8	136.7	129.3	121.8	114.3	105.9	97.1	88.0
165°	142.2	136.6	131.6	124.4	117.9	111.3	104.6	97.5	90.2	82.7	75.0
167.5°	119.6	114.4	109.0	103.5	97.8	92.2	86.5	80.6	74.5	68.3	63.2
170°	94.4	90.1	85.9	81.6	77.4	73.0	68.5	63.8	59.0	55.1	51.4
172.5°	69.1	66.3	63.4	60.4	57.3	54.0	50.6	47.8	45.2	42.4	39.6
175°	45.1	43.3	41.4	39.9	38.3	36.6	34.9	33.1	31.3	29.4	27.5
177.5°	23.8	23.1	22.3	21.6	20.8	19.9	19.0	18.1	17.2	16.3	15.3
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
2.5°	14.3	13.2	12.2	11.1	11.1	11.0	11.0	10.9	10.8	10.7	10.6
5°	25.5	23.5	21.5	19.4	19.2	19.1	18.9	18.7	18.4	18.2	17.9
7.5°	36.6	33.7	30.7	27.6	27.3	27.0	26.6	26.2	25.8	25.3	24.8
10°	47.7	43.8	39.8	35.8	35.4	34.8	34.2	33.6	32.9	32.2	31.7
12.5°	58.5	53.8	49.0	44.1	43.3	42.5	41.7	40.7	39.9	39.3	38.6
15°	69.3	63.7	58.1	52.3	51.3	50.1	48.9	47.8	47.1	46.4	45.6
17.5°	79.9	73.5	67.1	60.5	59.1	57.6	56.0	55.1	54.3	53.5	52.7
20°	90.6	83.3	76.1	68.8	66.9	65.0	63.1	62.4	61.6	60.7	60.0
22.5°	102.3	92.9	85.0	77.0	74.7	72.3	70.5	69.7	68.8	68.1	67.3
25°	134.4	123.5	114.8	105.5	101.8	97.7	94.3	91.3	88.3	85.5	82.6
27.5°	167.8	155.1	144.8	134.1	128.9	123.2	118.7	114.1	110.0	106.1	101.9
30°	201.1	186.8	175.0	162.6	155.8	148.5	142.4	136.0	131.0	125.8	120.0
32.5°	234.3	219.0	205.2	191.1	182.5	173.5	165.5	157.7	151.2	144.3	137.1
35°	267.3	251.1	235.5	219.7	209.0	198.2	187.9	178.7	170.6	162.0	153.2
37.5°	300.2	283.1	265.8	248.2	235.4	222.5	209.8	199.2	189.7	178.8	168.0
40°	332.9	315.0	296.3	276.7	261.7	246.4	231.2	219.2	207.3	194.9	181.9
42.5°	365.3	346.8	326.8	305.3	287.8	270.0	252.6	238.7	224.6	210.8	194.8
45°	396.9	378.5	357.3	333.8	313.8	293.3	273.4	257.7	241.4	224.5	206.8
47.5°	420.5	397.7	372.6	347.5	324.0	301.2	280.4	263.8	247.6	230.9	213.3
50°	444.2	416.8	387.8	361.2	334.0	308.2	285.6	267.1	249.9	232.7	214.9
52.5°	468.8	436.4	403.0	374.9	343.7	315.1	290.6	270.4	252.3	235.0	217.6
55°	494.2	456.4	418.1	388.6	353.3	321.8	295.5	273.8	255.0	237.8	221.2
57.5°	520.4	476.8	433.2	402.2	362.8	328.4	300.2	277.2	258.0	241.1	225.8
60°	547.1	497.6	448.3	415.9	372.2	335.0	304.7	280.7	261.4	245.3	231.9
62.5°	574.4	518.5	463.3	429.6	381.5	341.5	309.2	284.3	265.2	250.2	237.5
65°	602.2	539.7	478.3	443.3	390.8	347.9	313.6	288.0	269.2	255.7	244.6
67.5°	630.3	561.1	493.3	457.0	400.0	354.4	318.0	291.8	273.6	261.7	252.3
70°	636.6	565.5	497.9	455.8	397.4	351.6	315.0	289.1	271.7	261.5	253.8
72.5°	640.9	569.0	502.6	454.6	394.9	348.8	311.6	285.7	268.5	258.7	251.2
75°	644.7	572.0	509.2	453.5	392.4	346.1	308.4	282.4	265.4	256.1	248.8
77.5°	648.2	574.6	513.5	452.3	390.1	343.6	305.4	279.3	262.5	253.5	246.7
80°	651.2	578.7	517.8	451.1	387.8	341.3	302.5	276.4	259.7	251.1	244.6
82.5°	655.8	579.8	522.1	449.9	385.7	339.1	299.9	273.6	257.1	248.8	242.7
85°	656.8	580.9	526.3	448.8	383.7	337.2	297.5	271.0	254.6	246.6	240.9
87.5°	657.9	581.9	530.6	447.6	381.8	335.4	295.4	268.7	252.3	244.4	239.2
90°	659.0	583.0	534.9	446.4	380.0	333.8	293.4	266.5	250.1	242.4	237.6
92.5°	657.9	581.9	530.6	447.6	381.8	335.4	295.4	268.7	252.3	244.4	239.2
95°	656.8	580.9	526.3	448.8	383.7	337.2	297.5	271.0	254.6	246.6	240.9
97.5°	655.8	579.8	522.1	449.9	385.7	339.1	299.9	273.6	257.1	248.8	242.7
100°	651.2	578.7	517.8	451.1	387.8	341.3	302.5	276.4	259.7	251.1	244.6
102.5°	648.2	574.6	513.5	452.3	390.1	343.6	305.4	279.3	262.5	253.5	246.7
105°	644.7	572.0	509.2	453.5	392.4	346.1	308.4	282.4	265.4	256.1	248.8
107.5°	640.9	569.0	502.6	454.6	394.9	348.8	311.6	285.7	268.5	258.7	251.2
110°	636.6	565.5	497.9	455.8	397.4	351.6	315.0	289.1	271.7	261.5	253.8



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	630.3	561.1	493.3	457.0	400.0	354.4	318.0	291.8	273.6	261.7	252.3
115°	602.2	539.7	478.3	443.3	390.8	347.9	313.6	288.0	269.2	255.7	244.6
117.5°	574.4	518.5	463.3	429.6	381.5	341.5	309.2	284.3	265.2	250.2	237.5
120°	547.1	497.6	448.3	415.9	372.2	335.0	304.7	280.7	261.4	245.3	231.9
122.5°	520.4	476.8	433.2	402.2	362.8	328.4	300.2	277.2	258.0	241.1	225.8
125°	494.2	456.4	418.1	388.6	353.3	321.8	295.5	273.8	255.0	237.8	221.2
127.5°	468.8	436.4	403.0	374.9	343.7	315.1	290.6	270.4	252.3	235.0	217.6
130°	444.2	416.8	387.8	361.2	334.0	308.2	285.6	267.1	249.9	232.7	214.9
132.5°	420.5	397.7	372.6	347.5	324.0	301.2	280.4	263.8	247.6	230.9	213.3
135°	396.9	378.5	357.3	333.8	313.8	293.3	273.4	257.7	241.4	224.5	206.8
137.5°	365.3	346.8	326.8	305.3	287.8	270.0	252.6	238.7	224.6	210.8	194.8
140°	332.9	315.0	296.3	276.7	261.7	246.4	231.2	219.2	207.3	194.9	181.9
142.5°	300.2	283.1	265.8	248.2	235.4	222.5	209.8	199.2	189.7	178.8	168.0
145°	267.3	251.1	235.5	219.7	209.0	198.2	187.9	178.7	170.6	162.0	153.2
147.5°	234.3	219.0	205.2	191.1	182.5	173.5	165.5	157.7	151.2	144.3	137.1
150°	201.1	186.8	175.0	162.6	155.8	148.5	142.4	136.0	131.0	125.8	120.0
152.5°	167.8	155.1	144.8	134.1	128.9	123.2	118.7	114.1	110.0	106.1	101.9
155°	134.4	123.5	114.8	105.5	101.8	97.7	94.3	91.3	88.3	85.5	82.6
157.5°	102.3	92.9	85.0	77.0	74.7	72.3	70.5	69.7	68.8	68.1	67.3
160°	90.6	83.3	76.1	68.8	66.9	65.0	63.1	62.4	61.6	60.7	60.0
162.5°	79.9	73.5	67.1	60.5	59.1	57.6	56.0	55.1	54.3	53.5	52.7
165°	69.3	63.7	58.1	52.3	51.3	50.1	48.9	47.8	47.1	46.4	45.6
167.5°	58.5	53.8	49.0	44.1	43.3	42.5	41.7	40.7	39.9	39.3	38.6
170°	47.7	43.8	39.8	35.8	35.4	34.8	34.2	33.6	32.9	32.2	31.7
172.5°	36.6	33.7	30.7	27.6	27.3	27.0	26.6	26.2	25.8	25.3	24.8
175°	25.5	23.5	21.5	19.4	19.2	19.1	18.9	18.7	18.4	18.2	17.9
177.5°	14.3	13.2	12.2	11.1	11.1	11.0	11.0	10.9	10.8	10.7	10.6
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
2.5°	10.4	10.3	10.1	9.9	9.8	9.6	9.3	9.1	8.9	8.7	8.4
5°	17.6	17.2	16.8	16.5	16.1	15.6	15.2	14.7	14.3	13.8	13.2
7.5°	24.3	23.8	23.3	22.7	22.1	21.5	20.9	20.2	19.5	18.7	18.0
10°	31.1	30.5	29.8	29.0	28.3	27.6	26.8	26.1	25.3	24.4	23.5
12.5°	37.9	37.1	36.4	35.7	34.9	34.0	33.1	32.2	31.1	29.9	28.8
15°	44.8	44.1	43.3	42.5	41.6	40.5	39.3	38.0	36.7	35.4	33.9
17.5°	52.0	51.2	50.3	49.2	48.0	46.7	45.3	43.8	42.3	40.7	39.0
20°	59.2	58.3	57.1	55.8	54.4	52.8	51.2	49.6	47.8	45.8	43.8
22.5°	66.5	65.2	63.8	62.3	60.7	58.9	57.1	55.0	52.8	50.6	48.5
25°	79.3	75.8	72.2	68.7	66.9	64.8	62.5	60.2	58.0	55.8	53.4
27.5°	97.3	92.7	88.0	83.3	78.4	73.7	69.4	65.7	63.3	60.7	57.9
30°	114.2	108.1	102.1	95.8	89.6	83.9	78.7	74.0	69.7	65.7	62.2
32.5°	129.7	122.1	114.3	106.3	98.9	91.9	85.8	80.5	75.5	71.0	66.9
35°	143.9	134.5	124.6	115.1	106.1	98.2	91.5	85.5	80.0	75.2	71.0
37.5°	156.9	145.1	133.3	121.9	111.6	103.4	96.0	89.4	83.8	79.0	74.6
40°	168.5	154.3	140.4	127.0	116.7	107.6	99.6	92.9	87.5	82.7	78.3
42.5°	178.7	162.2	145.9	131.9	120.8	111.1	102.7	96.6	91.2	86.4	81.8
45°	187.7	168.6	149.8	136.3	124.4	113.7	106.5	100.2	95.0	90.2	85.4
47.5°	193.9	173.5	154.6	139.8	127.3	117.4	109.9	104.2	99.0	94.1	88.7
50°	196.1	176.2	159.6	144.7	130.9	121.4	114.1	108.2	103.2	97.8	92.2
52.5°	199.5	180.7	165.2	151.0	139.0	129.5	121.9	114.9	107.3	101.4	96.2
55°	204.0	187.0	171.6	157.8	147.3	139.1	132.2	126.0	116.9	108.2	100.3
57.5°	209.7	193.8	179.0	166.1	155.9	149.2	143.8	136.2	125.9	115.7	106.3
60°	216.4	201.0	187.0	175.1	166.2	160.2	156.2	145.7	133.5	121.7	111.1
62.5°	224.0	208.8	195.4	184.4	177.0	172.6	167.0	154.5	139.7	126.7	115.1
65°	232.1	217.3	204.5	193.9	188.2	185.7	176.9	161.6	145.2	130.9	118.4
67.5°	240.5	226.4	214.3	204.3	199.9	199.5	186.5	167.7	150.1	134.9	121.3
70°	243.5	231.8	221.9	215.0	213.0	211.5	195.6	173.2	154.6	138.6	123.7
72.5°	241.1	230.8	221.5	215.4	214.8	212.2	197.7	177.6	159.0	142.0	125.6
75°	239.2	230.3	221.3	215.5	214.8	209.6	196.2	179.6	162.2	144.6	128.1
77.5°	237.8	230.2	221.3	215.6	214.3	207.8	196.7	182.9	165.6	147.5	131.0
80°	236.7	230.5	221.5	215.5	213.5	206.7	199.0	187.4	169.5	150.9	134.3
82.5°	235.9	231.1	221.9	215.4	212.4	206.2	202.6	193.0	173.8	155.0	138.1
85°	235.4	231.8	222.5	215.3	211.2	206.1	207.1	199.3	178.7	159.7	142.4
87.5°	235.0	232.8	223.2	215.4	210.0	206.3	212.2	206.3	184.2	165.1	147.3
90°	234.7	233.8	224.2	215.5	208.8	206.8	217.4	213.6	190.5	171.2	153.0
92.5°	235.0	232.8	223.2	215.4	210.0	206.3	212.2	206.3	184.2	165.1	147.3
95°	235.4	231.8	222.5	215.3	211.2	206.1	207.1	199.3	178.7	159.7	142.4
97.5°	235.9	231.1	221.9	215.4	212.4	206.2	202.6	193.0	173.8	155.0	138.1
100°	236.7	230.5	221.5	215.5	213.5	206.7	199.0	187.4	169.5	150.9	134.3
102.5°	237.8	230.2	221.3	215.6	214.3	207.8	196.7	182.9	165.6	147.5	131.0
105°	239.2	230.3	221.3	215.5	214.8	209.6	196.2	179.6	162.2	144.6	128.1
107.5°	241.1	230.8	221.5	215.4	214.8	212.2	197.7	177.6	159.0	142.0	125.6
110°	243.5	231.8	221.9	215.0	213.0	211.5	195.6	173.2	154.6	138.6	123.7



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	240.5	226.4	214.3	204.3	199.9	199.5	186.5	167.7	150.1	134.9	121.3
115°	232.1	217.3	204.5	193.9	188.2	185.7	176.9	161.6	145.2	130.9	118.4
117.5°	224.0	208.8	195.4	184.4	177.0	172.6	167.0	154.5	139.7	126.7	115.1
120°	216.4	201.0	187.0	175.1	166.2	160.2	156.2	145.7	133.5	121.7	111.1
122.5°	209.7	193.8	179.0	166.1	155.9	149.2	143.8	136.2	125.9	115.7	106.3
125°	204.0	187.0	171.6	157.8	147.3	139.1	132.2	126.0	116.9	108.2	100.3
127.5°	199.5	180.7	165.2	151.0	139.0	129.5	121.9	114.9	107.3	101.4	96.2
130°	196.1	176.2	159.6	144.7	130.9	121.4	114.1	108.2	103.2	97.8	92.2
132.5°	193.9	173.5	154.6	139.8	127.3	117.4	109.9	104.2	99.0	94.1	88.7
135°	187.7	168.6	149.8	136.3	124.4	113.7	106.5	100.2	95.0	90.2	85.4
137.5°	178.7	162.2	145.9	131.9	120.8	111.1	102.7	96.6	91.2	86.4	81.8
140°	168.5	154.3	140.4	127.0	116.7	107.6	99.6	92.9	87.5	82.7	78.3
142.5°	156.9	145.1	133.3	121.9	111.6	103.4	96.0	89.4	83.8	79.0	74.6
145°	143.9	134.5	124.6	115.1	106.1	98.2	91.5	85.5	80.0	75.2	71.0
147.5°	129.7	122.1	114.3	106.3	98.9	91.9	85.8	80.5	75.5	71.0	66.9
150°	114.2	108.1	102.1	95.8	89.6	83.9	78.7	74.0	69.7	65.7	62.2
152.5°	97.3	92.7	88.0	83.3	78.4	73.7	69.4	65.7	63.3	60.7	57.9
155°	79.3	75.8	72.2	68.7	66.9	64.8	62.5	60.2	58.0	55.8	53.4
157.5°	66.5	65.2	63.8	62.3	60.7	58.9	57.1	55.0	52.8	50.6	48.5
160°	59.2	58.3	57.1	55.8	54.4	52.8	51.2	49.6	47.8	45.8	43.8
162.5°	52.0	51.2	50.3	49.2	48.0	46.7	45.3	43.8	42.3	40.7	39.0
165°	44.8	44.1	43.3	42.5	41.6	40.5	39.3	38.0	36.7	35.4	33.9
167.5°	37.9	37.1	36.4	35.7	34.9	34.0	33.1	32.2	31.1	29.9	28.8
170°	31.1	30.5	29.8	29.0	28.3	27.6	26.8	26.1	25.3	24.4	23.5
172.5°	24.3	23.8	23.3	22.7	22.1	21.5	20.9	20.2	19.5	18.7	18.0
175°	17.6	17.2	16.8	16.5	16.1	15.6	15.2	14.7	14.3	13.8	13.2
177.5°	10.4	10.3	10.1	9.9	9.8	9.6	9.3	9.1	8.9	8.7	8.4
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
2.5°	8.1	7.9	7.6	7.3	7.0	6.7	6.4	6.1	5.8	5.5	5.2
5°	12.7	12.1	11.6	11.0	10.4	9.8	9.1	8.5	7.9	7.2	6.6
7.5°	17.3	16.6	15.8	15.0	14.2	13.3	12.5	11.6	10.7	9.7	8.8
10°	22.5	21.5	20.5	19.4	18.2	17.1	15.9	14.7	13.5	12.3	11.0
12.5°	27.5	26.3	24.9	23.6	22.2	20.8	19.3	17.8	16.3	14.8	13.2
15°	32.5	30.9	29.3	27.7	26.0	24.3	22.5	20.7	18.9	17.1	15.2
17.5°	37.3	35.4	33.5	31.5	29.6	27.6	25.6	23.5	21.5	19.4	17.3
20°	41.7	39.6	37.5	35.4	33.3	31.1	28.8	26.4	24.0	21.6	19.2
22.5°	46.3	44.1	41.8	39.3	36.7	34.2	31.6	29.0	26.3	23.7	21.0
25°	50.9	48.2	45.5	42.8	40.0	37.2	34.3	31.5	28.6	25.7	22.7
27.5°	55.0	52.1	49.2	46.2	43.1	40.1	37.0	33.8	30.7	27.5	24.4
30°	59.1	55.9	52.7	49.4	46.1	42.8	39.5	36.2	32.8	29.3	25.8
32.5°	63.1	59.6	56.1	52.6	49.1	45.5	41.7	38.0	34.3	30.6	26.9
35°	66.9	63.2	59.5	55.6	51.5	47.5	43.5	39.5	35.6	31.8	28.1
37.5°	70.6	66.5	62.2	57.9	53.5	49.3	45.1	41.2	37.3	33.4	29.2
40°	73.9	69.4	64.9	60.2	55.7	51.5	47.3	42.8	38.2	33.8	29.6
42.5°	77.1	72.3	67.4	62.9	58.5	53.4	48.2	43.3	38.8	34.4	30.2
45°	80.2	75.2	70.6	65.7	60.2	54.7	49.5	44.3	39.6	35.0	30.6
47.5°	83.5	78.7	73.3	67.6	61.9	56.3	50.9	45.6	40.2	35.5	31.1
50°	87.2	81.6	75.6	69.6	63.7	58.1	52.4	46.6	41.1	36.2	31.9
52.5°	90.5	84.3	77.9	71.7	65.8	59.5	53.3	47.7	42.5	37.2	32.2
55°	93.6	86.9	80.3	74.1	67.3	60.6	54.7	49.0	43.3	37.8	32.7
57.5°	97.6	89.6	83.1	75.8	68.5	62.1	55.9	49.9	44.2	38.7	33.2
60°	101.4	93.0	85.0	77.1	70.1	63.5	57.2	50.9	44.7	38.6	33.1
62.5°	104.6	95.2	86.1	78.2	71.5	65.1	58.2	51.2	44.4	38.6	33.2
65°	107.0	96.5	87.1	78.8	71.8	65.2	58.5	51.0	44.5	38.1	31.8
67.5°	108.8	97.7	87.8	79.2	71.4	64.0	56.8	50.8	43.9	36.8	30.5
70°	110.4	98.8	88.3	79.1	70.7	62.3	55.0	48.4	42.1	35.6	29.0
72.5°	112.0	99.8	88.8	78.9	69.5	60.7	52.8	45.7	38.7	32.8	27.3
75°	113.9	100.8	89.1	78.5	68.5	59.0	50.7	42.7	35.4	29.4	25.0
77.5°	116.1	102.2	89.6	78.2	67.5	57.3	48.9	39.6	32.5	26.8	22.2
80°	118.5	103.7	90.1	77.6	65.7	55.4	46.3	37.2	30.2	24.2	19.1
82.5°	121.2	105.6	90.9	77.1	64.1	53.2	43.4	35.1	28.4	22.1	16.1
85°	124.4	107.9	92.0	77.0	62.8	51.2	41.5	33.6	27.5	21.7	15.9
87.5°	128.2	110.8	93.7	77.5	62.2	49.8	40.5	32.8	27.3	22.5	17.1
90°	132.8	114.5	96.2	78.9	62.5	49.1	40.4	32.7	27.9	24.1	19.2
92.5°	128.2	110.8	93.7	77.5	62.2	49.8	40.5	32.8	27.3	22.5	17.1
95°	124.4	107.9	92.0	77.0	62.8	51.2	41.5	33.6	27.5	21.7	15.9
97.5°	121.2	105.6	90.9	77.1	64.1	53.2	43.4	35.1	28.4	22.1	16.1
100°	118.5	103.7	90.1	77.6	65.7	55.4	46.3	37.2	30.2	24.2	19.1
102.5°	116.1	102.2	89.6	78.2	67.5	57.3	48.9	39.6	32.5	26.8	22.2
105°	113.9	100.8	89.1	78.5	68.5	59.0	50.7	42.7	35.4	29.4	25.0
107.5°	112.0	99.8	88.8	78.9	69.5	60.7	52.8	45.7	38.7	32.8	27.3
110°	110.4	98.8	88.3	79.1	70.7	62.3	55.0	48.4	42.1	35.6	29.0



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	108.8	97.7	87.8	79.2	71.4	64.0	56.8	50.8	43.9	36.8	30.5
115°	107.0	96.5	87.1	78.8	71.8	65.2	58.5	51.0	44.5	38.1	31.8
117.5°	104.6	95.2	86.1	78.2	71.5	65.1	58.2	51.2	44.4	38.6	33.2
120°	101.4	93.0	85.0	77.1	70.1	63.5	57.2	50.9	44.7	38.6	33.1
122.5°	97.6	89.6	83.1	75.8	68.5	62.1	55.9	49.9	44.2	38.7	33.2
125°	93.6	86.9	80.3	74.1	67.3	60.6	54.7	49.0	43.3	37.8	32.7
127.5°	90.5	84.3	77.9	71.7	65.8	59.5	53.3	47.7	42.5	37.2	32.2
130°	87.2	81.6	75.6	69.6	63.7	58.1	52.4	46.6	41.1	36.2	31.9
132.5°	83.5	78.7	73.3	67.6	61.9	56.3	50.9	45.6	40.2	35.5	31.1
135°	80.2	75.2	70.6	65.7	60.2	54.7	49.5	44.3	39.6	35.0	30.6
137.5°	77.1	72.3	67.4	62.9	58.5	53.4	48.2	43.3	38.8	34.4	30.2
140°	73.9	69.4	64.9	60.2	55.7	51.5	47.3	42.8	38.2	33.8	29.6
142.5°	70.6	66.5	62.2	57.9	53.5	49.3	45.1	41.2	37.3	33.4	29.2
145°	66.9	63.2	59.5	55.6	51.5	47.5	43.5	39.5	35.6	31.8	28.1
147.5°	63.1	59.6	56.1	52.6	49.1	45.5	41.7	38.0	34.3	30.6	26.9
150°	59.1	55.9	52.7	49.4	46.1	42.8	39.5	36.2	32.8	29.3	25.8
152.5°	55.0	52.1	49.2	46.2	43.1	40.1	37.0	33.8	30.7	27.5	24.4
155°	50.9	48.2	45.5	42.8	40.0	37.2	34.3	31.5	28.6	25.7	22.7
157.5°	46.3	44.1	41.8	39.3	36.7	34.2	31.6	29.0	26.3	23.7	21.0
160°	41.7	39.6	37.5	35.4	33.3	31.1	28.8	26.4	24.0	21.6	19.2
162.5°	37.3	35.4	33.5	31.5	29.6	27.6	25.6	23.5	21.5	19.4	17.3
165°	32.5	30.9	29.3	27.7	26.0	24.3	22.5	20.7	18.9	17.1	15.2
167.5°	27.5	26.3	24.9	23.6	22.2	20.8	19.3	17.8	16.3	14.8	13.2
170°	22.5	21.5	20.5	19.4	18.2	17.1	15.9	14.7	13.5	12.3	11.0
172.5°	17.3	16.6	15.8	15.0	14.2	13.3	12.5	11.6	10.7	9.7	8.8
175°	12.7	12.1	11.6	11.0	10.4	9.8	9.1	8.5	7.9	7.2	6.6
177.5°	8.1	7.9	7.6	7.3	7.0	6.7	6.4	6.1	5.8	5.5	5.2
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
2.5°	4.9	4.5	4.2	3.9	3.6	3.2	2.9	3.2	3.6	3.9	4.2
5°	5.9	5.2	4.6	3.9	3.2	2.6	1.9	2.6	3.2	3.9	4.6
7.5°	7.8	6.9	5.9	4.9	3.9	2.9	1.9	2.9	3.9	4.9	5.9
10°	9.7	8.5	7.2	5.9	4.5	3.2	1.9	3.2	4.5	5.9	7.2
12.5°	11.6	10.0	8.4	6.8	5.2	3.5	1.9	3.5	5.2	6.8	8.4
15°	13.3	11.5	9.6	7.7	5.7	3.8	1.9	3.8	5.7	7.7	9.6
17.5°	15.1	12.9	10.8	8.6	6.3	4.1	1.9	4.1	6.3	8.6	10.8
20°	16.8	14.3	11.8	9.4	6.9	4.4	1.9	4.4	6.9	9.4	11.8
22.5°	18.3	15.6	12.9	10.1	7.4	4.6	1.9	4.6	7.4	10.1	12.9
25°	19.8	16.8	13.8	10.9	7.9	4.9	1.9	4.9	7.9	10.9	13.8
27.5°	21.2	18.0	14.8	11.6	8.4	5.1	1.9	5.1	8.4	11.6	14.8
30°	22.4	18.9	15.5	12.1	8.7	5.3	1.9	5.3	8.7	12.1	15.5
32.5°	23.3	19.7	16.1	12.5	9.0	5.4	1.9	5.4	9.0	12.5	16.1
35°	24.3	20.6	16.9	13.1	9.4	5.6	1.9	5.6	9.4	13.1	16.9
37.5°	25.1	21.1	17.2	13.3	9.5	5.7	1.9	5.7	9.5	13.3	17.2
40°	25.5	21.4	17.5	13.5	9.6	5.8	1.9	5.8	9.6	13.5	17.5
42.5°	25.9	21.8	17.7	13.7	9.8	5.8	1.9	5.8	9.8	13.7	17.7
45°	26.4	22.3	18.3	14.4	10.5	6.7	2.9	6.7	10.5	14.4	18.3
47.5°	26.9	22.9	18.8	14.8	10.8	6.9	2.9	6.9	10.8	14.8	18.8
50°	27.6	23.2	19.0	14.9	10.8	6.9	2.9	6.9	10.8	14.9	19.0
52.5°	27.6	23.4	19.2	15.1	11.0	6.9	2.9	6.9	11.0	15.1	19.2
55°	28.2	23.7	19.3	15.0	10.9	6.9	2.9	6.9	10.9	15.0	19.3
57.5°	28.0	23.5	19.2	15.1	11.0	6.9	2.9	6.9	11.0	15.1	19.2
60°	28.3	23.7	18.9	14.5	10.4	6.6	2.9	6.6	10.4	14.5	18.9
62.5°	27.5	22.1	17.8	13.8	10.0	6.4	2.9	6.4	10.0	13.8	17.8
65°	26.2	21.3	17.0	13.2	9.9	6.8	3.8	6.8	9.9	13.2	17.0
67.5°	24.9	20.1	16.0	12.3	8.9	5.8	2.9	5.8	8.9	12.3	16.0
70°	23.3	18.7	14.7	11.4	8.6	6.1	3.8	6.1	8.6	11.4	14.7
72.5°	22.1	17.8	14.0	10.4	7.7	5.6	3.8	5.6	7.7	10.4	14.0
75°	21.5	17.2	13.2	9.3	6.6	5.1	3.8	5.1	6.6	9.3	13.2
77.5°	19.0	17.2	12.2	7.2	2.5	0.5	0.0	0.5	2.5	7.2	12.2
80°	15.8	12.9	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
82.5°	11.7	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	10.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	9.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	11.7	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	15.8	12.9	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
102.5°	19.0	17.2	12.2	7.2	2.5	0.5	0.0	0.5	2.5	7.2	12.2
105°	21.5	17.2	13.2	9.3	6.6	5.1	3.8	5.1	6.6	9.3	13.2
107.5°	22.1	17.8	14.0	10.4	7.7	5.6	3.8	5.6	7.7	10.4	14.0
110°	23.3	18.7	14.7	11.4	8.6	6.1	3.8	6.1	8.6	11.4	14.7



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	24.9	20.1	16.0	12.3	8.9	5.8	2.9	5.8	8.9	12.3	16.0
115°	26.2	21.3	17.0	13.2	9.9	6.8	3.8	6.8	9.9	13.2	17.0
117.5°	27.5	22.1	17.8	13.8	10.0	6.4	2.9	6.4	10.0	13.8	17.8
120°	28.3	23.7	18.9	14.5	10.4	6.6	2.9	6.6	10.4	14.5	18.9
122.5°	28.0	23.5	19.2	15.1	11.0	6.9	2.9	6.9	11.0	15.1	19.2
125°	28.2	23.7	19.3	15.0	10.9	6.9	2.9	6.9	10.9	15.0	19.3
127.5°	27.6	23.4	19.2	15.1	11.0	6.9	2.9	6.9	11.0	15.1	19.2
130°	27.6	23.2	19.0	14.9	10.8	6.9	2.9	6.9	10.8	14.9	19.0
132.5°	26.9	22.9	18.8	14.8	10.8	6.9	2.9	6.9	10.8	14.8	18.8
135°	26.4	22.3	18.3	14.4	10.5	6.7	2.9	6.7	10.5	14.4	18.3
137.5°	25.9	21.8	17.7	13.7	9.8	5.8	1.9	5.8	9.8	13.7	17.7
140°	25.5	21.4	17.5	13.5	9.6	5.8	1.9	5.8	9.6	13.5	17.5
142.5°	25.1	21.1	17.2	13.3	9.5	5.7	1.9	5.7	9.5	13.3	17.2
145°	24.3	20.6	16.9	13.1	9.4	5.6	1.9	5.6	9.4	13.1	16.9
147.5°	23.3	19.7	16.1	12.5	9.0	5.4	1.9	5.4	9.0	12.5	16.1
150°	22.4	18.9	15.5	12.1	8.7	5.3	1.9	5.3	8.7	12.1	15.5
152.5°	21.2	18.0	14.8	11.6	8.4	5.1	1.9	5.1	8.4	11.6	14.8
155°	19.8	16.8	13.8	10.9	7.9	4.9	1.9	4.9	7.9	10.9	13.8
157.5°	18.3	15.6	12.9	10.1	7.4	4.6	1.9	4.6	7.4	10.1	12.9
160°	16.8	14.3	11.8	9.4	6.9	4.4	1.9	4.4	6.9	9.4	11.8
162.5°	15.1	12.9	10.8	8.6	6.3	4.1	1.9	4.1	6.3	8.6	10.8
165°	13.3	11.5	9.6	7.7	5.7	3.8	1.9	3.8	5.7	7.7	9.6
167.5°	11.6	10.0	8.4	6.8	5.2	3.5	1.9	3.5	5.2	6.8	8.4
170°	9.7	8.5	7.2	5.9	4.5	3.2	1.9	3.2	4.5	5.9	7.2
172.5°	7.8	6.9	5.9	4.9	3.9	2.9	1.9	2.9	3.9	4.9	5.9
175°	5.9	5.2	4.6	3.9	3.2	2.6	1.9	2.6	3.2	3.9	4.6
177.5°	4.9	4.5	4.2	3.9	3.6	3.2	2.9	3.2	3.6	3.9	4.2
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
2.5°	4.5	4.9	5.2	5.5	5.8	6.1	6.4	6.7	7.0	7.3	7.6
5°	5.2	5.9	6.6	7.2	7.9	8.5	9.1	9.8	10.4	11.0	11.6
7.5°	6.9	7.8	8.8	9.7	10.7	11.6	12.5	13.3	14.2	15.0	15.8
10°	8.5	9.7	11.0	12.3	13.5	14.7	15.9	17.1	18.2	19.4	20.5
12.5°	10.0	11.6	13.2	14.8	16.3	17.8	19.3	20.8	22.2	23.6	24.9
15°	11.5	13.3	15.2	17.1	18.9	20.7	22.5	24.3	26.0	27.7	29.3
17.5°	12.9	15.1	17.3	19.4	21.5	23.5	25.6	27.6	29.6	31.5	33.5
20°	14.3	16.8	19.2	21.6	24.0	26.4	28.8	31.1	33.3	35.4	37.5
22.5°	15.6	18.3	21.0	23.7	26.3	29.0	31.6	34.2	36.7	39.3	41.8
25°	16.8	19.8	22.7	25.7	28.6	31.5	34.3	37.2	40.0	42.8	45.5
27.5°	18.0	21.2	24.4	27.5	30.7	33.8	37.0	40.1	43.1	46.2	49.2
30°	18.9	22.4	25.8	29.3	32.8	36.2	39.5	42.8	46.1	49.4	52.7
32.5°	19.7	23.3	26.9	30.6	34.3	38.0	41.7	45.5	49.1	52.6	56.1
35°	20.6	24.3	28.1	31.8	35.6	39.5	43.5	47.5	51.5	55.6	59.5
37.5°	21.1	25.1	29.2	33.4	37.3	41.2	45.1	49.3	53.5	57.9	62.2
40°	21.4	25.5	29.6	33.8	38.2	42.8	47.3	51.5	55.7	60.2	64.9
42.5°	21.8	25.9	30.2	34.4	38.8	43.3	48.2	53.4	58.5	62.9	67.4
45°	22.3	26.4	30.6	35.0	39.6	44.3	49.5	54.7	60.2	65.7	70.6
47.5°	22.9	26.9	31.1	35.5	40.2	45.6	50.9	56.3	61.9	67.6	73.3
50°	23.2	27.6	31.9	36.2	41.1	46.6	52.4	58.1	63.7	69.6	75.6
52.5°	23.4	27.6	32.2	37.2	42.5	47.7	53.3	59.5	65.8	71.7	77.9
55°	23.7	28.2	32.7	37.8	43.3	49.0	54.7	60.6	67.3	74.1	80.3
57.5°	23.5	28.0	33.2	38.7	44.2	49.9	55.9	62.1	68.5	75.8	83.1
60°	23.7	28.3	33.1	38.6	44.7	50.9	57.2	63.5	70.1	77.1	85.0
62.5°	22.1	27.5	33.2	38.6	44.4	51.2	58.2	65.1	71.5	78.2	86.1
65°	21.3	26.2	31.8	38.1	44.5	51.0	58.5	65.2	71.8	78.8	87.1
67.5°	20.1	24.9	30.5	36.8	43.9	50.8	56.8	64.0	71.4	79.2	87.8
70°	18.7	23.3	29.0	35.6	42.1	48.4	55.0	62.3	70.7	79.1	88.3
72.5°	17.8	22.1	27.3	32.8	38.7	45.7	52.8	60.7	69.5	78.9	88.8
75°	17.2	21.5	25.0	29.4	35.4	42.7	50.7	59.0	68.5	78.5	89.1
77.5°	17.2	19.0	22.2	26.8	32.5	39.6	48.9	57.3	67.5	78.2	89.6
80°	12.9	15.8	19.1	24.2	30.2	37.2	46.3	55.4	65.7	77.6	90.1
82.5°	7.3	11.7	16.1	22.1	28.4	35.1	43.4	53.2	64.1	77.1	90.9
85°	2.6	9.5	15.9	21.7	27.5	33.6	41.5	51.2	62.8	77.0	92.0
87.5°	0.9	10.0	17.1	22.5	27.3	32.8	40.5	49.8	62.2	77.5	93.7
90°	0.0	11.5	19.2	24.1	27.9	32.7	40.4	49.1	62.5	78.9	96.2
92.5°	0.9	10.0	17.1	22.5	27.3	32.8	40.5	49.8	62.2	77.5	93.7
95°	2.6	9.5	15.9	21.7	27.5	33.6	41.5	51.2	62.8	77.0	92.0
97.5°	7.3	11.7	16.1	22.1	28.4	35.1	43.4	53.2	64.1	77.1	90.9
100°	12.9	15.8	19.1	24.2	30.2	37.2	46.3	55.4	65.7	77.6	90.1
102.5°	17.2	19.0	22.2	26.8	32.5	39.6	48.9	57.3	67.5	78.2	89.6
105°	17.2	21.5	25.0	29.4	35.4	42.7	50.7	59.0	68.5	78.5	89.1
107.5°	17.8	22.1	27.3	32.8	38.7	45.7	52.8	60.7	69.5	78.9	88.8
110°	18.7	23.3	29.0	35.6	42.1	48.4	55.0	62.3	70.7	79.1	88.3



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	20.1	24.9	30.5	36.8	43.9	50.8	56.8	64.0	71.4	79.2	87.8
115°	21.3	26.2	31.8	38.1	44.5	51.0	58.5	65.2	71.8	78.8	87.1
117.5°	22.1	27.5	33.2	38.6	44.4	51.2	58.2	65.1	71.5	78.2	86.1
120°	23.7	28.3	33.1	38.6	44.7	50.9	57.2	63.5	70.1	77.1	85.0
122.5°	23.5	28.0	33.2	38.7	44.2	49.9	55.9	62.1	68.5	75.8	83.1
125°	23.7	28.2	32.7	37.8	43.3	49.0	54.7	60.6	67.3	74.1	80.3
127.5°	23.4	27.6	32.2	37.2	42.5	47.7	53.3	59.5	65.8	71.7	77.9
130°	23.2	27.6	31.9	36.2	41.1	46.6	52.4	58.1	63.7	69.6	75.6
132.5°	22.9	26.9	31.1	35.5	40.2	45.6	50.9	56.3	61.9	67.6	73.3
135°	22.3	26.4	30.6	35.0	39.6	44.3	49.5	54.7	60.2	65.7	70.6
137.5°	21.8	25.9	30.2	34.4	38.8	43.3	48.2	53.4	58.5	62.9	67.4
140°	21.4	25.5	29.6	33.8	38.2	42.8	47.3	51.5	55.7	60.2	64.9
142.5°	21.1	25.1	29.2	33.4	37.3	41.2	45.1	49.3	53.5	57.9	62.2
145°	20.6	24.3	28.1	31.8	35.6	39.5	43.5	47.5	51.5	55.6	59.5
147.5°	19.7	23.3	26.9	30.6	34.3	38.0	41.7	45.5	49.1	52.6	56.1
150°	18.9	22.4	25.8	29.3	32.8	36.2	39.5	42.8	46.1	49.4	52.7
152.5°	18.0	21.2	24.4	27.5	30.7	33.8	37.0	40.1	43.1	46.2	49.2
155°	16.8	19.8	22.7	25.7	28.6	31.5	34.3	37.2	40.0	42.8	45.5
157.5°	15.6	18.3	21.0	23.7	26.3	29.0	31.6	34.2	36.7	39.3	41.8
160°	14.3	16.8	19.2	21.6	24.0	26.4	28.8	31.1	33.3	35.4	37.5
162.5°	12.9	15.1	17.3	19.4	21.5	23.5	25.6	27.6	29.6	31.5	33.5
165°	11.5	13.3	15.2	17.1	18.9	20.7	22.5	24.3	26.0	27.7	29.3
167.5°	10.0	11.6	13.2	14.8	16.3	17.8	19.3	20.8	22.2	23.6	24.9
170°	8.5	9.7	11.0	12.3	13.5	14.7	15.9	17.1	18.2	19.4	20.5
172.5°	6.9	7.8	8.8	9.7	10.7	11.6	12.5	13.3	14.2	15.0	15.8
175°	5.2	5.9	6.6	7.2	7.9	8.5	9.1	9.8	10.4	11.0	11.6
177.5°	4.5	4.9	5.2	5.5	5.8	6.1	6.4	6.7	7.0	7.3	7.6
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
2.5°	7.9	8.1	8.4	8.7	8.9	9.1	9.3	9.6	9.8	9.9	10.1
5°	12.1	12.7	13.2	13.8	14.3	14.7	15.2	15.6	16.1	16.5	16.8
7.5°	16.6	17.3	18.0	18.7	19.5	20.2	20.9	21.5	22.1	22.7	23.3
10°	21.5	22.5	23.5	24.4	25.3	26.1	26.8	27.6	28.3	29.0	29.8
12.5°	26.3	27.5	28.8	29.9	31.1	32.2	33.1	34.0	34.9	35.7	36.4
15°	30.9	32.5	33.9	35.4	36.7	38.0	39.3	40.5	41.6	42.5	43.3
17.5°	35.4	37.3	39.0	40.7	42.3	43.8	45.3	46.7	48.0	49.2	50.3
20°	39.6	41.7	43.8	45.8	47.8	49.6	51.2	52.8	54.4	55.8	57.1
22.5°	44.1	46.3	48.5	50.6	52.8	55.0	57.1	58.9	60.7	62.3	63.8
25°	48.2	50.9	53.4	55.8	58.0	60.2	62.5	64.8	66.9	68.7	72.2
27.5°	52.1	55.0	57.9	60.7	63.3	65.7	69.4	73.7	78.4	83.3	88.0
30°	55.9	59.1	62.2	65.7	69.7	74.0	78.7	83.9	89.6	95.8	102.1
32.5°	59.6	63.1	66.9	71.0	75.5	80.5	85.8	91.9	98.9	106.3	114.3
35°	63.2	66.9	71.0	75.2	80.0	85.5	91.5	98.2	106.1	115.1	124.6
37.5°	66.5	70.6	74.6	79.0	83.8	89.4	96.0	103.4	111.6	121.9	133.3
40°	69.4	73.9	78.3	82.7	87.5	92.9	99.6	107.6	116.7	127.0	140.4
42.5°	72.3	77.1	81.8	86.4	91.2	96.6	102.7	111.1	120.8	131.9	145.9
45°	75.2	80.2	85.4	90.2	95.0	100.2	106.5	113.7	124.4	136.3	149.8
47.5°	78.7	83.5	88.7	94.1	99.0	104.2	109.9	117.4	127.3	139.8	154.6
50°	81.6	87.2	92.2	97.8	103.2	108.2	114.1	121.4	130.9	144.7	159.6
52.5°	84.3	90.5	96.2	101.4	107.3	114.9	121.9	129.5	139.0	151.0	165.2
55°	86.9	93.6	100.3	108.2	116.9	126.0	132.2	139.1	147.3	157.8	171.6
57.5°	89.6	97.6	106.3	115.7	125.9	136.2	143.8	149.2	155.9	166.1	179.0
60°	93.0	101.4	111.1	121.7	133.5	145.7	156.2	160.2	166.2	175.1	187.0
62.5°	95.2	104.6	115.1	126.7	139.7	154.5	167.0	172.6	177.0	184.4	195.4
65°	96.5	107.0	118.4	130.9	145.2	161.6	176.9	185.7	188.2	193.9	204.5
67.5°	97.7	108.8	121.3	134.9	150.1	167.7	186.5	199.5	199.9	204.3	214.3
70°	98.8	110.4	123.7	138.6	154.6	173.2	195.6	211.5	213.0	215.0	221.9
72.5°	99.8	112.0	125.6	142.0	159.0	177.6	197.7	212.2	214.8	215.4	221.5
75°	100.8	113.9	128.1	144.6	162.2	179.6	196.2	209.6	214.8	215.5	221.3
77.5°	102.2	116.1	131.0	147.5	165.6	182.9	196.7	207.8	214.3	215.6	221.3
80°	103.7	118.5	134.3	150.9	169.5	187.4	199.0	206.7	213.5	215.5	221.5
82.5°	105.6	121.2	138.1	155.0	173.8	193.0	202.6	206.2	212.4	215.4	221.9
85°	107.9	124.4	142.4	159.7	178.7	199.3	207.1	206.1	211.2	215.3	222.5
87.5°	110.8	128.2	147.3	165.1	184.2	206.3	212.2	206.3	210.0	215.4	223.2
90°	114.5	132.8	153.0	171.2	190.5	213.6	217.4	206.8	208.8	215.5	224.2
92.5°	110.8	128.2	147.3	165.1	184.2	206.3	212.2	206.3	210.0	215.4	223.2
95°	107.9	124.4	142.4	159.7	178.7	199.3	207.1	206.1	211.2	215.3	222.5
97.5°	105.6	121.2	138.1	155.0	173.8	193.0	202.6	206.2	212.4	215.4	221.9
100°	103.7	118.5	134.3	150.9	169.5	187.4	199.0	206.7	213.5	215.5	221.5
102.5°	102.2	116.1	131.0	147.5	165.6	182.9	196.7	207.8	214.3	215.6	221.3
105°	100.8	113.9	128.1	144.6	162.2	179.6	196.2	209.6	214.8	215.5	221.3
107.5°	99.8	112.0	125.6	142.0	159.0	177.6	197.7	212.2	214.8	215.4	221.5
110°	98.8	110.4	123.7	138.6	154.6	173.2	195.6	211.5	213.0	215.0	221.9



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	97.7	108.8	121.3	134.9	150.1	167.7	186.5	199.5	199.9	204.3	214.3
115°	96.5	107.0	118.4	130.9	145.2	161.6	176.9	185.7	188.2	193.9	204.5
117.5°	95.2	104.6	115.1	126.7	139.7	154.5	167.0	172.6	177.0	184.4	195.4
120°	93.0	101.4	111.1	121.7	133.5	145.7	156.2	160.2	166.2	175.1	187.0
122.5°	89.6	97.6	106.3	115.7	125.9	136.2	143.8	149.2	155.9	166.1	179.0
125°	86.9	93.6	100.3	108.2	116.9	126.0	132.2	139.1	147.3	157.8	171.6
127.5°	84.3	90.5	96.2	101.4	107.3	114.9	121.9	129.5	139.0	151.0	165.2
130°	81.6	87.2	92.2	97.8	103.2	108.2	114.1	121.4	130.9	144.7	159.6
132.5°	78.7	83.5	88.7	94.1	99.0	104.2	109.9	117.4	127.3	139.8	154.6
135°	75.2	80.2	85.4	90.2	95.0	100.2	106.5	113.7	124.4	136.3	149.8
137.5°	72.3	77.1	81.8	86.4	91.2	96.6	102.7	111.1	120.8	131.9	145.9
140°	69.4	73.9	78.3	82.7	87.5	92.9	99.6	107.6	116.7	127.0	140.4
142.5°	66.5	70.6	74.6	79.0	83.8	89.4	96.0	103.4	111.6	121.9	133.3
145°	63.2	66.9	71.0	75.2	80.0	85.5	91.5	98.2	106.1	115.1	124.6
147.5°	59.6	63.1	66.9	71.0	75.5	80.5	85.8	91.9	98.9	106.3	114.3
150°	55.9	59.1	62.2	65.7	69.7	74.0	78.7	83.9	89.6	95.8	102.1
152.5°	52.1	55.0	57.9	60.7	63.3	65.7	69.4	73.7	78.4	83.3	88.0
155°	48.2	50.9	53.4	55.8	58.0	60.2	62.5	64.8	66.9	68.7	72.2
157.5°	44.1	46.3	48.5	50.6	52.8	55.0	57.1	58.9	60.7	62.3	63.8
160°	39.6	41.7	43.8	45.8	47.8	49.6	51.2	52.8	54.4	55.8	57.1
162.5°	35.4	37.3	39.0	40.7	42.3	43.8	45.3	46.7	48.0	49.2	50.3
165°	30.9	32.5	33.9	35.4	36.7	38.0	39.3	40.5	41.6	42.5	43.3
167.5°	26.3	27.5	28.8	29.9	31.1	32.2	33.1	34.0	34.9	35.7	36.4
170°	21.5	22.5	23.5	24.4	25.3	26.1	26.8	27.6	28.3	29.0	29.8
172.5°	16.6	17.3	18.0	18.7	19.5	20.2	20.9	21.5	22.1	22.7	23.3
175°	12.1	12.7	13.2	13.8	14.3	14.7	15.2	15.6	16.1	16.5	16.8
177.5°	7.9	8.1	8.4	8.7	8.9	9.1	9.3	9.6	9.8	9.9	10.1
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
2.5°	10.3	10.4	10.6	10.7	10.8	10.9	11.0	11.0	11.1	11.1	12.2
5°	17.2	17.6	17.9	18.2	18.4	18.7	18.9	19.1	19.2	19.4	21.5
7.5°	23.8	24.3	24.8	25.3	25.8	26.2	26.6	27.0	27.3	27.6	30.7
10°	30.5	31.1	31.7	32.2	32.9	33.6	34.2	34.8	35.4	35.8	39.8
12.5°	37.1	37.9	38.6	39.3	39.9	40.7	41.7	42.5	43.3	44.1	49.0
15°	44.1	44.8	45.6	46.4	47.1	47.8	48.9	50.1	51.3	52.3	58.1
17.5°	51.2	52.0	52.7	53.5	54.3	55.1	56.0	57.6	59.1	60.5	67.1
20°	58.3	59.2	60.0	60.7	61.6	62.4	63.1	65.0	66.9	68.8	76.1
22.5°	65.2	66.5	67.3	68.1	68.8	69.7	70.5	72.3	74.7	77.0	85.0
25°	75.8	79.3	82.6	85.5	88.3	91.3	94.3	97.7	101.8	105.5	114.8
27.5°	92.7	97.3	101.9	106.1	110.0	114.1	118.7	123.2	128.9	134.1	144.8
30°	108.1	114.2	120.0	125.8	131.0	136.0	142.4	148.5	155.8	162.6	175.0
32.5°	122.1	129.7	137.1	144.3	151.2	157.7	165.5	173.5	182.5	191.1	205.2
35°	134.5	143.9	153.2	162.0	170.6	178.7	187.9	198.2	209.0	219.7	235.5
37.5°	145.1	156.9	168.0	178.8	189.7	199.2	209.8	222.5	235.4	248.2	265.8
40°	154.3	168.5	181.9	194.9	207.3	219.2	231.2	246.4	261.7	276.7	296.3
42.5°	162.2	178.7	194.8	210.8	224.6	238.7	252.6	270.0	287.8	305.3	326.8
45°	168.6	187.7	206.8	224.5	241.4	257.7	273.4	293.3	313.8	333.8	357.3
47.5°	173.5	193.9	213.3	230.9	247.6	263.8	280.4	301.2	324.0	347.5	372.6
50°	176.2	196.1	214.9	232.7	249.9	267.1	285.6	308.2	334.0	361.2	387.8
52.5°	180.7	199.5	217.6	235.0	252.3	270.4	290.6	315.1	343.7	374.9	403.0
55°	187.0	204.0	221.2	237.8	255.0	273.8	295.5	321.8	353.3	388.6	418.1
57.5°	193.8	209.7	225.8	241.1	258.0	277.2	300.2	328.4	362.8	402.2	433.2
60°	201.0	216.4	231.9	245.3	261.4	280.7	304.7	335.0	372.2	415.9	448.3
62.5°	208.8	224.0	237.5	250.2	265.2	284.3	309.2	341.5	381.5	429.6	463.3
65°	217.3	232.1	244.6	255.7	269.2	288.0	313.6	347.9	390.8	443.3	478.3
67.5°	226.4	240.5	252.3	261.7	273.6	291.8	318.0	354.4	400.0	457.0	493.3
70°	231.8	243.5	253.8	261.5	271.7	289.1	315.0	351.6	397.4	455.8	497.9
72.5°	230.8	241.1	251.2	258.7	268.5	285.7	311.6	348.8	394.9	454.6	502.6
75°	230.3	239.2	248.8	256.1	265.4	282.4	308.4	346.1	392.4	453.5	509.2
77.5°	230.2	237.8	246.7	253.5	262.5	279.3	305.4	343.6	390.1	452.3	513.5
80°	230.5	236.7	244.6	251.1	259.7	276.4	302.5	341.3	387.8	451.1	517.8
82.5°	231.1	235.9	242.7	248.8	257.1	273.6	299.9	339.1	385.7	449.9	522.1
85°	231.8	235.4	240.9	246.6	254.6	271.0	297.5	337.2	383.7	448.8	526.3
87.5°	232.8	235.0	239.2	244.4	252.3	268.7	295.4	335.4	381.8	447.6	530.6
90°	233.8	234.7	237.6	242.4	250.1	266.5	293.4	333.8	380.0	446.4	534.9
92.5°	232.8	235.0	239.2	244.4	252.3	268.7	295.4	335.4	381.8	447.6	530.6
95°	231.8	235.4	240.9	246.6	254.6	271.0	297.5	337.2	383.7	448.8	526.3
97.5°	231.1	235.9	242.7	248.8	257.1	273.6	299.9	339.1	385.7	449.9	522.1
100°	230.5	236.7	244.6	251.1	259.7	276.4	302.5	341.3	387.8	451.1	517.8
102.5°	230.2	237.8	246.7	253.5	262.5	279.3	305.4	343.6	390.1	452.3	513.5
105°	230.3	239.2	248.8	256.1	265.4	282.4	308.4	346.1	392.4	453.5	509.2
107.5°	230.8	241.1	251.2	258.7	268.5	285.7	311.6	348.8	394.9	454.6	502.6
110°	231.8	243.5	253.8	261.5	271.7	289.1	315.0	351.6	397.4	455.8	497.9



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	226.4	240.5	252.3	261.7	273.6	291.8	318.0	354.4	400.0	457.0	493.3
115°	217.3	232.1	244.6	255.7	269.2	288.0	313.6	347.9	390.8	443.3	478.3
117.5°	208.8	224.0	237.5	250.2	265.2	284.3	309.2	341.5	381.5	429.6	463.3
120°	201.0	216.4	231.9	245.3	261.4	280.7	304.7	335.0	372.2	415.9	448.3
122.5°	193.8	209.7	225.8	241.1	258.0	277.2	300.2	328.4	362.8	402.2	433.2
125°	187.0	204.0	221.2	237.8	255.0	273.8	295.5	321.8	353.3	388.6	418.1
127.5°	180.7	199.5	217.6	235.0	252.3	270.4	290.6	315.1	343.7	374.9	403.0
130°	176.2	196.1	214.9	232.7	249.9	267.1	285.6	308.2	334.0	361.2	387.8
132.5°	173.5	193.9	213.3	230.9	247.6	263.8	280.4	301.2	324.0	347.5	372.6
135°	168.6	187.7	206.8	224.5	241.4	257.7	273.4	293.3	313.8	333.8	357.3
137.5°	162.2	178.7	194.8	210.8	224.6	238.7	252.6	270.0	287.8	305.3	326.8
140°	154.3	168.5	181.9	194.9	207.3	219.2	231.2	246.4	261.7	276.7	296.3
142.5°	145.1	156.9	168.0	178.8	189.7	199.2	209.8	222.5	235.4	248.2	265.8
145°	134.5	143.9	153.2	162.0	170.6	178.7	187.9	198.2	209.0	219.7	235.5
147.5°	122.1	129.7	137.1	144.3	151.2	157.7	165.5	173.5	182.5	191.1	205.2
150°	108.1	114.2	120.0	125.8	131.0	136.0	142.4	148.5	155.8	162.6	175.0
152.5°	92.7	97.3	101.9	106.1	110.0	114.1	118.7	123.2	128.9	134.1	144.8
155°	75.8	79.3	82.6	85.5	88.3	91.3	94.3	97.7	101.8	105.5	114.8
157.5°	65.2	66.5	67.3	68.1	68.8	69.7	70.5	72.3	74.7	77.0	85.0
160°	58.3	59.2	60.0	60.7	61.6	62.4	63.1	65.0	66.9	68.8	76.1
162.5°	51.2	52.0	52.7	53.5	54.3	55.1	56.0	57.6	59.1	60.5	67.1
165°	44.1	44.8	45.6	46.4	47.1	47.8	48.9	50.1	51.3	52.3	58.1
167.5°	37.1	37.9	38.6	39.3	39.9	40.7	41.7	42.5	43.3	44.1	49.0
170°	30.5	31.1	31.7	32.2	32.9	33.6	34.2	34.8	35.4	35.8	39.8
172.5°	23.8	24.3	24.8	25.3	25.8	26.2	26.6	27.0	27.3	27.6	30.7
175°	17.2	17.6	17.9	18.2	18.4	18.7	18.9	19.1	19.2	19.4	21.5
177.5°	10.3	10.4	10.6	10.7	10.8	10.9	11.0	11.0	11.1	11.1	12.2
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
2.5°	13.2	14.3	15.3	16.3	17.2	18.1	19.0	19.9	20.8	21.6	22.3
5°	23.5	25.5	27.5	29.4	31.3	33.1	34.9	36.6	38.3	39.9	41.4
7.5°	33.7	36.6	39.6	42.4	45.2	47.8	50.6	54.0	57.3	60.4	63.4
10°	43.8	47.7	51.4	55.1	59.0	63.8	68.5	73.0	77.4	81.6	85.9
12.5°	53.8	58.5	63.2	68.3	74.5	80.6	86.5	92.2	97.8	103.5	109.0
15°	63.7	69.3	75.0	82.7	90.2	97.5	104.6	111.3	117.9	124.4	131.6
17.5°	73.5	79.9	88.0	97.1	105.9	114.3	121.8	129.3	136.7	143.8	150.6
20°	83.3	90.6	101.1	111.5	121.5	129.8	137.9	146.0	154.2	162.2	170.0
22.5°	92.9	102.3	114.3	126.0	135.5	144.2	152.9	162.2	171.3	180.1	188.5
25°	123.5	134.4	146.2	156.7	164.1	171.1	178.1	184.9	191.0	196.2	205.0
27.5°	155.1	167.8	180.6	190.5	198.6	206.2	213.4	220.0	225.2	230.0	234.5
30°	186.8	201.1	215.2	224.2	233.4	240.4	247.5	252.9	257.7	262.4	266.8
32.5°	219.0	234.3	247.9	257.6	266.3	273.5	279.6	284.3	288.9	293.3	299.6
35°	251.1	267.3	280.6	290.8	298.8	306.2	310.2	314.4	318.6	323.9	332.4
37.5°	283.1	300.2	313.1	323.7	330.5	336.0	339.7	343.4	347.5	355.0	364.0
40°	315.0	332.9	345.4	355.2	361.4	365.2	368.0	371.1	376.5	384.2	397.0
42.5°	346.8	365.3	377.6	386.1	391.3	393.3	395.4	397.7	404.6	414.5	428.1
45°	378.5	396.9	409.6	416.3	419.7	420.6	421.8	425.1	431.1	444.1	459.5
47.5°	397.7	420.5	438.2	447.9	453.7	455.8	455.6	454.8	459.0	473.2	490.0
50°	416.8	444.2	466.8	482.1	494.4	504.8	513.6	523.7	532.8	538.7	541.8
52.5°	436.4	468.8	496.4	518.3	538.4	558.2	578.8	599.8	618.6	629.1	630.7
55°	456.4	494.2	527.5	556.5	585.2	615.8	649.5	682.1	708.6	721.4	711.9
57.5°	476.8	520.4	559.9	597.0	635.2	677.1	725.2	768.8	799.0	807.4	785.7
60°	497.6	547.1	593.5	639.4	688.6	742.4	805.6	859.4	890.6	884.0	856.0
62.5°	518.5	574.4	628.1	683.5	744.6	813.0	889.3	953.6	983.4	955.1	922.2
65°	539.7	602.2	663.4	729.1	802.6	886.4	975.0	1045.4	1076.3	1021.4	984.5
67.5°	561.1	630.3	699.5	775.8	862.4	962.2	1062.7	1135.4	1149.8	1086.0	1043.4
70°	565.5	636.6	710.1	792.6	887.6	999.7	1111.1	1192.5	1202.7	1146.7	1101.4
72.5°	569.0	640.9	716.8	801.4	898.0	1011.2	1117.8	1194.5	1200.9	1163.1	1127.0
75°	572.0	644.7	722.9	809.4	907.1	1020.4	1121.6	1196.7	1206.0	1183.4	1148.6
77.5°	574.6	648.2	728.6	816.5	914.8	1027.4	1122.8	1198.9	1216.8	1206.9	1170.1
80°	578.7	651.2	733.8	822.7	921.1	1032.4	1121.6	1200.7	1232.1	1233.2	1192.0
82.5°	579.8	655.8	741.3	828.1	926.2	1035.4	1118.4	1201.9	1250.5	1261.4	1214.3
85°	580.9	656.8	743.7	834.3	932.3	1039.6	1115.7	1205.4	1270.7	1290.8	1237.5
87.5°	581.9	657.9	746.1	836.6	933.2	1036.9	1107.1	1202.1	1292.3	1321.2	1260.9
90°	583.0	659.0	748.5	838.9	934.1	1034.2	1098.6	1198.7	1311.2	1350.7	1287.2
92.5°	581.9	657.9	746.1	836.6	933.2	1036.9	1107.1	1202.1	1292.3	1321.2	1260.9
95°	580.9	656.8	743.7	834.3	932.3	1039.6	1115.7	1205.4	1270.7	1290.8	1237.5
97.5°	579.8	655.8	741.3	828.1	926.2	1035.4	1118.4	1201.9	1250.5	1261.4	1214.3
100°	578.7	651.2	733.8	822.7	921.1	1032.4	1121.6	1200.7	1232.1	1233.2	1192.0
102.5°	574.6	648.2	728.6	816.5	914.8	1027.4	1122.8	1198.9	1216.8	1206.9	1170.1
105°	572.0	644.7	722.9	809.4	907.1	1020.4	1121.6	1196.7	1206.0	1183.4	1148.6
107.5°	569.0	640.9	716.8	801.4	898.0	1011.2	1117.8	1194.5	1200.9	1163.1	1127.0
110°	565.5	636.6	710.1	792.6	887.6	999.7	1111.1	1192.5	1202.7	1146.7	1101.4



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	561.1	630.3	699.5	775.8	862.4	962.2	1062.7	1135.4	1149.8	1086.0	1043.4
115°	539.7	602.2	663.4	729.1	802.6	886.4	975.0	1045.4	1076.3	1021.4	984.5
117.5°	518.5	574.4	628.1	683.5	744.6	813.0	889.3	953.6	983.4	955.1	922.2
120°	497.6	547.1	593.5	639.4	688.6	742.4	805.6	859.4	890.6	884.0	856.0
122.5°	476.8	520.4	559.9	597.0	635.2	677.1	725.2	768.8	799.0	807.4	785.7
125°	456.4	494.2	527.5	556.5	585.2	615.8	649.5	682.1	708.6	721.4	711.9
127.5°	436.4	468.8	496.4	518.3	538.4	558.2	578.8	599.8	618.6	629.1	630.7
130°	416.8	444.2	466.8	482.1	494.4	504.8	513.6	523.7	532.8	538.7	541.8
132.5°	397.7	420.5	438.2	447.9	453.7	455.8	455.6	454.8	459.0	473.2	490.0
135°	378.5	396.9	409.6	416.3	419.7	420.6	421.8	425.1	431.1	444.1	459.5
137.5°	346.8	365.3	377.6	386.1	391.3	393.3	395.4	397.7	404.6	414.5	428.1
140°	315.0	332.9	345.4	355.2	361.4	365.2	368.0	371.1	376.5	384.2	397.0
142.5°	283.1	300.2	313.1	323.7	330.5	336.0	339.7	343.4	347.5	355.0	364.0
145°	251.1	267.3	280.6	290.8	298.8	306.2	310.2	314.4	318.6	323.9	332.4
147.5°	219.0	234.3	247.9	257.6	266.3	273.5	279.6	284.3	288.9	293.3	299.6
150°	186.8	201.1	215.2	224.2	233.4	240.4	247.5	252.9	257.7	262.4	266.8
152.5°	155.1	167.8	180.6	190.5	198.6	206.2	213.4	220.0	225.2	230.0	234.5
155°	123.5	134.4	146.2	156.7	164.1	171.1	178.1	184.9	191.0	196.2	205.0
157.5°	92.9	102.3	114.3	126.0	135.5	144.2	152.9	162.2	171.3	180.1	188.5
160°	83.3	90.6	101.1	111.5	121.5	129.8	137.9	146.0	154.2	162.2	170.0
162.5°	73.5	79.9	88.0	97.1	105.9	114.3	121.8	129.3	136.7	143.8	150.6
165°	63.7	69.3	75.0	82.7	90.2	97.5	104.6	111.3	117.9	124.4	131.6
167.5°	53.8	58.5	63.2	68.3	74.5	80.6	86.5	92.2	97.8	103.5	109.0
170°	43.8	47.7	51.4	55.1	59.0	63.8	68.5	73.0	77.4	81.6	85.9
172.5°	33.7	36.6	39.6	42.4	45.2	47.8	50.6	54.0	57.3	60.4	63.4
175°	23.5	25.5	27.5	29.4	31.3	33.1	34.9	36.6	38.3	39.9	41.4
177.5°	13.2	14.3	15.3	16.3	17.2	18.1	19.0	19.9	20.8	21.6	22.3
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
2.5°	23.1	23.8	24.4	25.1	25.6	26.2	26.7	27.1	27.5	27.9	28.2
5°	43.3	45.1	46.9	48.5	50.0	51.5	52.8	54.0	55.1	56.1	57.0
7.5°	66.3	69.1	71.7	74.1	76.6	79.3	81.9	84.4	86.7	88.8	90.7
10°	90.1	94.4	98.5	102.5	106.3	110.0	113.5	116.5	119.0	121.3	123.4
12.5°	114.4	119.6	124.5	128.8	132.9	136.7	140.3	143.7	146.9	150.6	154.4
15°	136.6	142.2	147.5	152.6	157.6	163.4	169.1	174.5	179.8	184.9	189.4
17.5°	157.3	164.5	170.7	177.7	184.6	191.3	197.4	202.9	208.3	213.4	218.3
20°	177.8	185.7	193.5	201.0	208.0	214.7	221.3	227.9	234.4	240.4	245.9
22.5°	196.9	205.3	213.2	221.0	228.8	237.6	246.1	254.0	261.0	266.3	270.6
25°	213.7	222.3	231.8	241.8	252.5	262.6	272.2	280.5	287.4	293.5	299.4
27.5°	238.8	244.3	252.6	265.1	278.5	291.0	303.2	312.2	321.4	329.0	335.2
30°	273.3	281.6	290.5	301.7	312.4	324.7	338.1	349.8	359.3	367.4	374.9
32.5°	308.2	318.2	330.3	342.4	355.4	367.7	378.6	388.9	399.5	409.5	418.5
35°	342.5	355.4	368.8	383.1	396.8	409.5	421.3	432.3	442.5	454.2	467.9
37.5°	377.5	391.6	407.0	422.3	437.0	450.7	463.5	476.2	490.2	505.0	521.1
40°	411.0	427.5	444.1	460.8	476.3	490.8	506.6	522.8	541.4	562.0	585.0
42.5°	444.8	462.3	481.0	498.3	514.4	532.6	550.8	573.0	597.7	627.6	659.8
45°	477.1	497.4	516.8	534.3	554.1	574.3	598.2	624.7	660.1	698.0	741.3
47.5°	510.2	531.9	550.9	571.4	593.5	617.8	646.2	683.4	726.4	773.2	833.6
50°	546.1	564.2	584.7	608.4	632.8	660.3	698.7	744.0	796.3	864.1	935.7
52.5°	628.3	628.2	634.1	644.2	670.6	707.2	752.2	806.2	879.4	958.8	1043.5
55°	703.5	700.1	704.3	708.7	726.3	755.2	804.9	880.6	964.6	1055.1	1163.7
57.5°	773.0	767.1	765.3	769.2	790.0	826.0	881.7	956.4	1049.8	1160.7	1281.2
60°	838.0	828.3	820.8	828.9	853.2	893.7	962.7	1046.2	1145.4	1259.2	1388.5
62.5°	899.9	883.8	871.9	882.3	912.0	965.8	1039.5	1129.3	1241.8	1363.6	1503.1
65°	957.5	934.3	924.2	935.9	968.1	1028.2	1109.0	1212.6	1332.7	1468.7	1632.5
67.5°	1011.2	980.3	971.6	986.4	1025.5	1088.9	1174.5	1285.1	1416.1	1581.7	1765.2
70°	1061.4	1023.7	1014.6	1032.0	1074.9	1142.6	1236.9	1356.9	1505.7	1685.7	1882.4
72.5°	1089.9	1061.9	1057.6	1076.4	1118.3	1191.4	1289.6	1420.1	1592.8	1773.8	1954.7
75°	1112.3	1092.4	1095.1	1119.5	1166.3	1239.2	1341.7	1479.9	1669.3	1839.8	2018.3
77.5°	1136.9	1123.9	1131.9	1160.1	1211.1	1288.6	1396.3	1545.0	1723.5	1892.2	2066.2
80°	1163.4	1156.0	1167.9	1198.4	1252.1	1331.5	1441.5	1595.0	1766.8	1942.0	2120.2
82.5°	1191.4	1188.7	1203.3	1234.6	1289.4	1368.5	1477.8	1630.9	1800.5	1981.5	2163.4
85°	1220.6	1221.7	1238.0	1269.0	1323.4	1400.2	1506.3	1654.3	1824.4	2010.0	2195.0
87.5°	1250.6	1255.1	1272.4	1302.4	1355.7	1429.0	1530.5	1670.7	1843.2	2033.2	2220.9
90°	1281.4	1288.2	1305.5	1333.4	1383.4	1450.7	1544.1	1671.0	1842.3	2032.8	2221.3
92.5°	1250.6	1255.1	1272.4	1302.4	1355.7	1429.0	1530.5	1670.7	1843.2	2033.2	2220.9
95°	1220.6	1221.7	1238.0	1269.0	1323.4	1400.2	1506.3	1654.3	1824.4	2010.0	2195.0
97.5°	1191.4	1188.7	1203.3	1234.6	1289.4	1368.5	1477.8	1630.9	1800.5	1981.5	2163.4
100°	1163.4	1156.0	1167.9	1198.4	1252.1	1331.5	1441.5	1595.0	1766.8	1942.0	2120.2
102.5°	1136.9	1123.9	1131.9	1160.1	1211.1	1288.6	1396.3	1545.0	1723.5	1892.2	2066.2
105°	1112.3	1092.4	1095.1	1119.5	1166.3	1239.2	1341.7	1479.9	1669.3	1839.8	2018.3
107.5°	1089.9	1061.9	1057.6	1076.4	1118.3	1191.4	1289.6	1420.1	1592.8	1773.8	1954.7
110°	1061.4	1023.7	1014.6	1032.0	1074.9	1142.6	1236.9	1356.9	1505.7	1685.7	1882.4



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	1011.2	980.3	971.6	986.4	1025.5	1088.9	1174.5	1285.1	1416.1	1581.7	1765.2
115°	957.5	934.3	924.2	935.9	968.1	1028.2	1109.0	1212.6	1332.7	1468.7	1632.5
117.5°	899.9	883.8	871.9	882.3	912.0	965.8	1039.5	1129.3	1241.8	1363.6	1503.1
120°	838.0	828.3	820.8	828.9	853.2	893.7	962.7	1046.2	1145.4	1259.2	1388.5
122.5°	773.0	767.1	765.3	769.2	790.0	826.0	881.7	956.4	1049.8	1160.7	1281.2
125°	703.5	700.1	704.3	708.7	726.3	755.2	804.9	880.6	964.6	1055.1	1163.7
127.5°	628.3	628.2	634.1	644.2	670.6	707.2	752.2	806.2	879.4	958.8	1043.5
130°	546.1	564.2	584.7	608.4	632.8	660.3	698.7	744.0	796.3	864.1	935.7
132.5°	510.2	531.9	550.9	571.4	593.5	617.8	646.2	683.4	726.4	773.2	833.6
135°	477.1	497.4	516.8	534.3	554.1	574.3	598.2	624.7	660.1	698.0	741.3
137.5°	444.8	462.3	481.0	498.3	514.4	532.6	550.8	573.0	597.7	627.6	659.8
140°	411.0	427.5	444.1	460.8	476.3	490.8	506.6	522.8	541.4	562.0	585.0
142.5°	377.5	391.6	407.0	422.3	437.0	450.7	463.5	476.2	490.2	505.0	521.1
145°	342.5	355.4	368.8	383.1	396.8	409.5	421.3	432.3	442.5	454.2	467.9
147.5°	308.2	318.2	330.3	342.4	355.4	367.7	378.6	388.9	399.5	409.5	418.5
150°	273.3	281.6	290.5	301.7	312.4	324.7	338.1	349.8	359.3	367.4	374.9
152.5°	238.8	244.3	252.6	265.1	278.5	291.0	303.2	312.2	321.4	329.0	335.2
155°	213.7	222.3	231.8	241.8	252.5	262.6	272.2	280.5	287.4	293.5	299.4
157.5°	196.9	205.3	213.2	221.0	228.8	237.6	246.1	254.0	261.0	266.3	270.6
160°	177.8	185.7	193.5	201.0	208.0	214.7	221.3	227.9	234.4	240.4	245.9
162.5°	157.3	164.5	170.7	177.7	184.6	191.3	197.4	202.9	208.3	213.4	218.3
165°	136.6	142.2	147.5	152.6	157.6	163.4	169.1	174.5	179.8	184.9	189.4
167.5°	114.4	119.6	124.5	128.8	132.9	136.7	140.3	143.7	146.9	150.6	154.4
170°	90.1	94.4	98.5	102.5	106.3	110.0	113.5	116.5	119.0	121.3	123.4
172.5°	66.3	69.1	71.7	74.1	76.6	79.3	81.9	84.4	86.7	88.8	90.7
175°	43.3	45.1	46.9	48.5	50.0	51.5	52.8	54.0	55.1	56.1	57.0
177.5°	23.1	23.8	24.4	25.1	25.6	26.2	26.7	27.1	27.5	27.9	28.2
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
2.5°	28.5	28.7	28.9	29.0	29.1	29.1	29.9	29.6	29.3	28.9	28.6
5°	57.7	58.4	58.9	59.3	59.6	59.8	59.9	59.8	60.5	59.8	59.1
7.5°	92.5	94.1	95.5	96.7	97.7	98.5	99.1	99.5	99.6	100.6	99.8
10°	125.2	126.9	128.3	129.6	130.6	131.3	131.8	132.1	132.2	133.1	132.0
12.5°	158.0	161.3	164.3	167.1	169.5	171.6	173.4	174.8	175.9	176.6	177.7
15°	193.2	196.7	200.0	202.9	205.5	207.8	209.8	211.4	212.6	213.5	214.8
17.5°	222.8	226.8	230.4	233.5	236.1	238.3	240.0	241.3	242.2	242.6	243.5
20°	250.9	254.6	256.5	257.6	258.1	257.9	257.2	255.9	254.2	252.1	249.9
22.5°	273.7	275.9	278.0	279.7	280.5	280.4	279.5	277.9	275.5	272.5	269.7
25°	304.0	307.4	309.6	311.2	311.8	311.5	310.2	308.0	305.0	301.2	296.6
27.5°	340.1	343.8	346.2	348.7	351.4	353.0	353.7	353.2	351.7	349.2	345.5
30°	381.0	387.3	392.6	396.9	404.6	411.3	417.0	421.5	424.6	426.2	426.2
32.5°	427.8	439.4	450.5	461.1	472.6	483.7	493.3	501.2	507.4	511.5	513.6
35°	481.6	498.5	515.6	531.7	547.8	567.3	584.7	599.9	612.5	622.4	629.3
37.5°	542.3	564.4	592.0	618.3	643.1	669.1	693.1	714.2	732.2	746.7	757.4
40°	613.8	645.0	680.3	715.3	748.3	783.7	820.9	854.5	883.8	908.3	927.6
42.5°	697.0	734.7	777.8	829.4	878.7	926.0	972.6	1014.1	1050.1	1080.2	1104.0
45°	787.4	843.6	896.8	959.2	1020.3	1083.4	1139.9	1195.6	1242.1	1279.3	1307.2
47.5°	896.8	964.4	1031.4	1105.7	1192.6	1270.8	1343.7	1410.1	1466.1	1511.4	1545.6
50°	1013.5	1095.3	1194.1	1291.0	1392.6	1484.9	1573.0	1663.4	1741.8	1806.8	1857.5
52.5°	1143.1	1251.1	1365.1	1480.2	1609.3	1737.4	1849.6	1941.3	2027.3	2105.2	2172.0
55°	1279.7	1403.4	1537.6	1689.9	1836.3	1962.1	2075.8	2178.8	2272.0	2355.5	2427.6
57.5°	1409.6	1559.4	1723.1	1882.1	2036.6	2153.2	2269.0	2374.5	2466.3	2551.8	2629.0
60°	1543.2	1715.1	1895.8	2055.8	2196.8	2315.6	2417.8	2519.1	2613.2	2698.8	2775.0
62.5°	1671.0	1873.8	2047.9	2204.3	2323.6	2437.7	2540.2	2636.9	2734.4	2823.2	2901.5
65°	1825.1	2006.4	2172.5	2301.8	2424.9	2540.9	2648.1	2749.7	2846.8	2936.7	3014.3
67.5°	1953.7	2124.9	2254.6	2385.0	2511.9	2630.0	2744.0	2852.1	2952.7	3043.5	3120.4
70°	2052.0	2204.6	2338.4	2461.8	2582.6	2707.5	2828.4	2941.6	3049.7	3140.7	3209.4
72.5°	2126.6	2277.7	2411.4	2530.6	2650.4	2771.8	2895.6	3012.7	3129.5	3238.6	3300.4
75°	2187.4	2335.3	2464.3	2587.1	2713.3	2830.8	2942.4	3067.6	3195.8	3310.7	3376.2
77.5°	2238.1	2382.8	2502.1	2632.8	2760.3	2879.5	2993.0	3108.5	3237.3	3349.2	3427.4
80°	2278.9	2409.9	2530.3	2664.7	2794.7	2919.0	3037.5	3157.2	3267.9	3378.7	3456.0
82.5°	2308.5	2434.1	2561.8	2691.2	2816.2	2939.1	3069.2	3198.0	3315.2	3419.5	3473.9
85°	2323.6	2449.9	2581.0	2708.6	2839.0	2966.2	3093.6	3221.9	3349.4	3439.5	3460.4
87.5°	2330.2	2456.2	2587.4	2711.5	2850.2	2981.4	3102.6	3230.6	3361.2	3462.0	3498.4
90°	2318.5	2452.2	2581.1	2700.4	2846.7	2979.4	3088.1	3214.1	3339.2	3469.1	3515.3
92.5°	2330.2	2456.2	2587.4	2711.5	2850.2	2981.4	3102.6	3230.6	3361.2	3462.0	3498.4
95°	2323.6	2449.9	2581.0	2708.6	2839.0	2966.2	3093.6	3221.9	3349.4	3439.5	3460.4
97.5°	2308.5	2434.1	2561.8	2691.2	2816.2	2939.1	3069.2	3198.0	3315.2	3419.5	3473.9
100°	2278.9	2409.9	2530.3	2664.7	2794.7	2919.0	3037.5	3157.2	3267.9	3378.7	3456.0
102.5°	2238.1	2382.8	2502.1	2632.8	2760.3	2879.5	2993.0	3108.5	3237.3	3349.2	3427.4
105°	2187.4	2335.3	2464.3	2587.1	2713.3	2830.8	2942.4	3067.6	3195.8	3310.7	3376.2
107.5°	2126.6	2277.7	2411.4	2530.6	2650.4	2771.8	2895.6	3012.7	3129.5	3238.6	3300.4
110°	2052.0	2204.6	2338.4	2461.8	2582.6	2707.5	2828.4	2941.6	3049.7	3140.7	3209.4



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	1953.7	2124.9	2254.6	2385.0	2511.9	2630.0	2744.0	2852.1	2952.7	3043.5	3120.4
115°	1825.1	2006.4	2172.5	2301.8	2424.9	2540.9	2648.1	2749.7	2846.8	2936.7	3014.3
117.5°	1671.0	1873.8	2047.9	2204.3	2323.6	2437.7	2540.2	2636.9	2734.4	2823.2	2901.5
120°	1543.2	1715.1	1895.8	2055.8	2196.8	2315.6	2417.8	2519.1	2613.2	2698.8	2775.0
122.5°	1409.6	1559.4	1723.1	1882.1	2036.6	2153.2	2269.0	2374.5	2466.3	2551.8	2629.0
125°	1279.7	1403.4	1537.6	1689.9	1836.3	1962.1	2075.8	2178.8	2272.0	2355.5	2427.6
127.5°	1143.1	1251.1	1365.1	1480.2	1609.3	1737.4	1849.6	1941.3	2027.3	2105.2	2172.0
130°	1013.5	1095.3	1194.1	1291.0	1392.6	1484.9	1573.0	1663.4	1741.8	1806.8	1857.5
132.5°	896.8	964.4	1031.4	1105.7	1192.6	1270.8	1343.7	1410.1	1466.1	1511.4	1545.6
135°	787.4	843.6	896.8	959.2	1020.3	1083.4	1139.9	1195.6	1242.1	1279.3	1307.2
137.5°	697.0	734.7	777.8	829.4	878.7	926.0	972.6	1014.1	1050.1	1080.2	1104.0
140°	613.8	645.0	680.3	715.3	748.3	783.7	820.9	854.5	883.8	908.3	927.6
142.5°	542.3	564.4	592.0	618.3	643.1	669.1	693.1	714.2	732.2	746.7	757.4
145°	481.6	498.5	515.6	531.7	547.8	567.3	584.7	599.9	612.5	622.4	629.3
147.5°	427.8	439.4	450.5	461.1	472.6	483.7	493.3	501.2	507.4	511.5	513.6
150°	381.0	387.3	392.6	396.9	404.6	411.3	417.0	421.5	424.6	426.2	426.2
152.5°	340.1	343.8	346.2	348.7	351.4	353.0	353.7	353.2	351.7	349.2	345.5
155°	304.0	307.4	309.6	311.2	311.8	311.5	310.2	308.0	305.0	301.2	296.6
157.5°	273.7	275.9	278.0	279.7	280.5	280.4	279.5	277.9	275.5	272.5	269.7
160°	250.9	254.6	256.5	257.6	258.1	257.9	257.2	255.9	254.2	252.1	249.9
162.5°	222.8	226.8	230.4	233.5	236.1	238.3	240.0	241.3	242.2	242.6	243.5
165°	193.2	196.7	200.0	202.9	205.5	207.8	209.8	211.4	212.6	213.5	214.8
167.5°	158.0	161.3	164.3	167.1	169.5	171.6	173.4	174.8	175.9	176.6	177.7
170°	125.2	126.9	128.3	129.6	130.6	131.3	131.8	132.1	132.2	133.1	132.0
172.5°	92.5	94.1	95.5	96.7	97.7	98.5	99.1	99.5	99.6	100.6	99.8
175°	57.7	58.4	58.9	59.3	59.6	59.8	59.9	59.8	60.5	59.8	59.1
177.5°	28.5	28.7	28.9	29.0	29.1	29.1	29.9	29.6	29.3	28.9	28.6
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	2.9	2.9
2.5°	28.2	27.9
5°	58.4	57.7
7.5°	98.9	98.1
10°	131.0	129.9
12.5°	176.9	176.1
15°	214.2	213.6
17.5°	242.5	241.5
20°	247.2	244.4
22.5°	265.2	260.7
25°	291.7	285.7
27.5°	341.3	334.8
30°	425.3	420.4
32.5°	514.6	510.8
35°	634.7	633.0
37.5°	766.4	766.7
40°	944.5	948.6
42.5°	1124.7	1131.3
45°	1330.3	1335.3
47.5°	1574.2	1579.7
50°	1901.3	1911.6
52.5°	2234.4	2260.8
55°	2494.6	2530.1
57.5°	2702.9	2749.5
60°	2846.8	2896.7
62.5°	2969.0	3025.6
65°	3079.9	3134.3
67.5°	3184.0	3235.3
70°	3262.3	3302.7
72.5°	3338.0	3358.5
75°	3399.5	3409.4
77.5°	3442.3	3447.9
80°	3477.3	3469.1
82.5°	3505.7	3501.8
85°	3515.3	3558.6
87.5°	3491.2	3549.9
90°	3498.9	3496.0
92.5°	3491.2	3549.9
95°	3515.3	3558.6
97.5°	3505.7	3501.8
100°	3477.3	3469.1
102.5°	3442.3	3447.9
105°	3399.5	3409.4
107.5°	3338.0	3358.5
110°	3262.3	3302.7



TEST NUMBER: P232012

CATALOG NUMBER: FVS4WM-4-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	3184.0	3235.3
115°	3079.9	3134.3
117.5°	2969.0	3025.6
120°	2846.8	2896.7
122.5°	2702.9	2749.5
125°	2494.6	2530.1
127.5°	2234.4	2260.8
130°	1901.3	1911.6
132.5°	1574.2	1579.7
135°	1330.3	1335.3
137.5°	1124.7	1131.3
140°	944.5	948.6
142.5°	766.4	766.7
145°	634.7	633.0
147.5°	514.6	510.8
150°	425.3	420.4
152.5°	341.3	334.8
155°	291.7	285.7
157.5°	265.2	260.7
160°	247.2	244.4
162.5°	242.5	241.5
165°	214.2	213.6
167.5°	176.9	176.1
170°	131.0	129.9
172.5°	98.9	98.1
175°	58.4	57.7
177.5°	28.2	27.9
180°	2.0	2.0

(END OF REPORT)