

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: PORTFOLIO

Report Number: P880603

Luminaire Tested: **LD4C70D010 EU4709030 4LBDWNH**

Issue Date: 10/4/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P880603  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251940)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C70D010 EU4709030 4LBDWNH  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBDWN TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

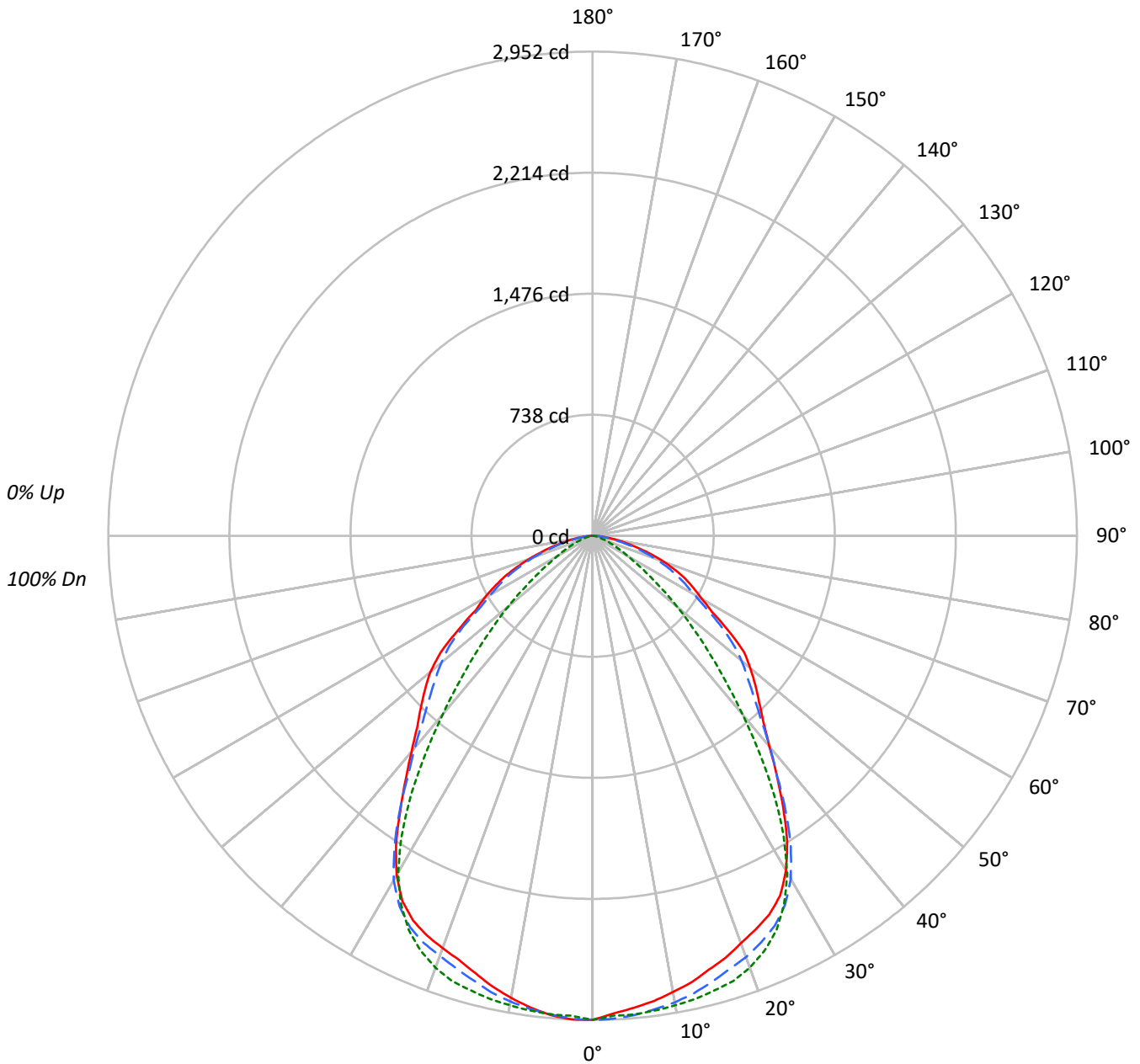
Lumens per Lamp: N/A  
Luminaire Lumens: 6007.0 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 78  
Input Voltage (V): NR  
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





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	88																			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76																			
3	94	85	78	72	92	84	77	72	81	75	70	78	73	69	76	72	68	66																			
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	61	55	66	60	54	64	58	54	63	57	53	51																			
6	75	63	55	49	73	62	55	49	60	54	49	59	53	48	57	52	48	46																			
7	70	58	50	44	68	57	49	44	56	49	44	54	48	43	53	47	43	41																			
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37																			
9	62	49	41	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34																			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	362614	362614	362614
5°	356181	361200	361755
10°	352353	362557	356881
15°	348264	364989	351139
20°	345501	366315	349659
25°	345323	359475	350840
30°	334319	336263	338844
35°	303732	289454	306462
40°	268722	227923	275266
45°	249301	173550	257206
50°	239538	128475	246476
55°	216887	88524	213953
60°	188556	60247	187474
65°	182179	43604	172906
70°	164729	29383	146769
75°	135755	19367	116389
80°	109236	12876	86738
85°	89791	6343	57511



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.6	4.6
10°-20°	796.7	13.3
20°-30°	1203.6	20.0
30°-40°	1259.6	21.0
40°-50°	1020.1	17.0
50°-60°	742.0	12.4
60°-70°	457.6	7.6
70°-80°	206.8	3.4
80°-90°	42.0	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2278.8	37.9
0°-40°	3538.4	58.9
0°-60°	5300.6	88.2
0°-90°	6007.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6007.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2952	2952	2952	2952	2952	
5°	2888	2933	2929	2929	2933	274
15°	2738	2815	2870	2806	2761	774
25°	2548	2624	2652	2634	2588	1167
35°	2025	2053	1930	2053	2043	1262
45°	1435	1390	999	1408	1480	1115
55°	1013	949	413	958	999	903
65°	627	563	150	554	595	613
75°	286	245	41	213	245	310
85°	64	50	4	36	41	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2951.6	2951.6	2951.6	2951.6	2951.6	2951.6	2951.6	2951.6	2951.6	2951.6	2951.6
2.5°	2915.3	2915.3	2942.6	2974.2	2947.1	2919.7	2937.9	2928.9	2960.8	2960.8	2947.1
5°	2888.2	2897.1	2919.7	2947.1	2924.5	2897.1	2919.7	2910.8	2942.6	2942.6	2933.4
7.5°	2860.8	2865.3	2892.6	2924.5	2901.6	2874.5	2892.6	2888.2	2915.3	2919.7	2910.8
10°	2824.5	2829.0	2856.3	2888.2	2865.3	2842.6	2860.8	2856.3	2892.6	2892.6	2888.2
12.5°	2788.2	2792.7	2820.0	2847.1	2824.5	2801.9	2820.0	2820.0	2856.3	2860.8	2856.3
15°	2738.2	2747.1	2770.0	2797.1	2783.7	2756.3	2774.5	2774.5	2806.3	2815.3	2815.3
17.5°	2697.4	2701.9	2724.5	2751.9	2733.7	2710.8	2729.0	2729.0	2760.8	2770.0	2770.0
20°	2642.7	2651.9	2674.5	2701.9	2688.2	2670.1	2683.7	2683.7	2720.0	2729.0	2733.7
22.5°	2597.4	2606.4	2624.5	2661.1	2638.2	2624.5	2642.7	2638.2	2679.3	2683.7	2683.7
25°	2547.5	2556.7	2579.3	2601.9	2588.2	2574.8	2588.2	2588.2	2620.1	2624.5	2624.5
27.5°	2474.8	2479.3	2501.9	2524.8	2511.2	2493.0	2511.2	2506.7	2538.2	2543.0	2538.2
30°	2356.7	2365.9	2374.9	2406.7	2393.0	2379.3	2397.5	2388.6	2420.4	2420.4	2415.6
32.5°	2206.8	2206.8	2225.2	2247.8	2229.7	2220.4	2234.1	2238.6	2261.5	2261.5	2247.8
35°	2025.2	2034.4	2047.9	2061.5	2047.9	2038.9	2052.6	2047.9	2075.2	2066.0	2052.6
37.5°	1843.7	1848.2	1861.9	1880.0	1861.9	1848.2	1852.6	1848.2	1870.8	1870.8	1848.2
40°	1675.6	1684.8	1693.7	1711.9	1693.7	1684.8	1689.3	1675.6	1703.0	1693.7	1680.1
42.5°	1539.3	1543.8	1557.5	1566.7	1548.5	1543.8	1548.5	1539.3	1553.0	1543.8	1516.7
45°	1434.9	1434.9	1439.6	1453.0	1434.9	1430.4	1430.4	1421.2	1434.9	1416.7	1389.6
47.5°	1344.1	1348.6	1353.3	1362.3	1348.6	1335.2	1339.6	1321.5	1330.4	1316.7	1280.4
50°	1253.3	1262.3	1267.0	1276.0	1262.3	1253.3	1257.8	1239.7	1239.7	1217.0	1185.2
52.5°	1162.6	1167.0	1162.6	1171.5	1162.6	1148.9	1153.4	1135.2	1135.2	1108.1	1076.3
55°	1012.6	1017.1	1021.8	1030.8	1021.8	1008.1	1017.1	1003.7	1003.7	985.2	948.9
57.5°	862.7	867.4	871.9	876.3	876.3	867.4	871.9	862.7	858.2	844.5	817.4
60°	767.4	767.4	767.4	771.9	767.4	763.0	763.0	753.7	753.7	735.6	708.5
62.5°	694.8	699.3	699.3	703.7	699.3	694.8	690.3	681.1	676.7	658.5	635.6
65°	626.7	626.7	622.2	631.1	626.7	622.2	622.2	613.0	604.1	585.9	563.0
67.5°	544.8	549.3	544.8	549.3	549.3	544.8	540.4	531.2	526.7	513.0	485.9
70°	458.6	458.6	458.6	463.3	458.6	458.6	463.3	449.6	445.1	426.7	404.1
72.5°	372.3	377.0	377.0	372.3	377.0	367.8	367.8	367.8	363.3	345.2	322.3
75°	286.0	290.7	290.7	295.2	290.7	286.0	286.0	281.5	277.0	263.3	245.2
77.5°	213.4	213.4	217.8	217.8	217.8	213.4	213.4	204.4	204.4	195.2	177.1
80°	154.4	154.4	150.0	154.4	154.4	150.0	150.0	145.2	145.2	136.3	122.6
82.5°	100.0	104.4	104.4	104.4	104.4	100.0	100.0	100.0	95.2	90.8	81.8
85°	63.7	63.7	63.7	63.7	68.1	63.7	68.1	63.7	63.7	54.5	50.0
87.5°	27.4	27.4	27.4	31.8	31.8	27.4	27.4	27.4	27.4	27.4	22.6
90°	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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2951.6	2951.6	2951.6	2951.6	2951.6	2951.6	2951.6	2951.6	2951.6	2951.6	2951.6
2.5°	2947.1	2951.6	2937.9	2956.0	2942.6	2947.1	2951.6	2947.1	2928.9	2928.9	2978.9
5°	2928.9	2937.9	2924.5	2947.1	2937.9	2937.9	2947.1	2942.6	2924.5	2928.9	2974.2
7.5°	2910.8	2924.5	2915.3	2937.9	2924.5	2924.5	2933.4	2933.4	2915.3	2919.7	2960.8
10°	2883.4	2901.6	2897.1	2919.7	2906.3	2906.3	2919.7	2919.7	2901.6	2906.3	2947.1
12.5°	2860.8	2878.9	2874.5	2897.1	2888.2	2892.6	2897.1	2906.3	2883.4	2892.6	2928.9
15°	2824.5	2842.6	2842.6	2865.3	2856.3	2865.3	2874.5	2888.2	2869.7	2869.7	2906.3
17.5°	2783.7	2806.3	2806.3	2824.5	2824.5	2829.0	2847.1	2860.8	2842.6	2847.1	2878.9
20°	2738.2	2765.6	2765.6	2788.2	2783.7	2792.7	2806.3	2820.0	2801.9	2801.9	2838.2
22.5°	2692.7	2715.6	2720.0	2733.7	2733.7	2738.2	2751.9	2760.8	2738.2	2738.2	2774.5
25°	2629.3	2651.9	2656.4	2665.6	2656.4	2656.4	2665.6	2674.5	2651.9	2651.9	2683.7
27.5°	2543.0	2565.6	2565.6	2561.1	2551.9	2556.7	2551.9	2556.7	2533.8	2529.3	2561.1
30°	2415.6	2429.3	2429.3	2424.9	2411.2	2411.2	2397.5	2402.2	2370.4	2370.4	2397.5
32.5°	2243.3	2256.7	2247.8	2238.6	2220.4	2211.5	2202.3	2197.8	2166.0	2166.0	2197.8
35°	2038.9	2047.9	2034.4	2016.3	1993.4	1979.7	1966.3	1948.2	1925.3	1930.0	1948.2
37.5°	1830.0	1830.0	1811.9	1775.6	1757.4	1734.5	1711.9	1711.9	1675.6	1671.1	1684.8
40°	1653.0	1634.8	1603.0	1553.0	1521.2	1498.5	1466.7	1448.5	1421.2	1421.2	1444.1
42.5°	1494.1	1457.8	1416.7	1348.6	1316.7	1289.6	1248.9	1230.7	1198.9	1194.1	1207.8
45°	1353.3	1316.7	1257.8	1185.2	1144.4	1112.6	1053.4	1030.8	1003.7	998.9	1008.1
47.5°	1239.7	1198.9	1126.3	1030.8	990.0	948.9	890.0	858.2	835.6	821.9	835.6
50°	1139.7	1085.2	1008.1	908.2	853.7	817.4	744.8	713.0	681.1	672.2	676.7
52.5°	1030.8	976.3	894.5	790.0	740.1	685.6	617.5	572.2	544.8	531.2	544.8
55°	912.6	858.2	776.6	672.2	617.5	567.7	494.9	458.6	426.7	413.3	426.7
57.5°	785.6	735.6	663.0	558.5	508.5	463.3	395.2	358.9	327.0	317.8	327.0
60°	676.7	635.6	563.0	463.3	422.2	372.3	313.3	277.0	249.7	245.2	249.7
62.5°	604.1	558.5	490.4	395.2	354.1	313.3	258.9	222.6	199.7	195.2	199.7
65°	531.2	481.5	417.8	336.0	295.2	263.3	208.9	177.1	154.4	150.0	154.4
67.5°	449.6	404.1	349.6	277.0	245.2	213.4	168.1	136.3	118.1	113.7	118.1
70°	372.3	331.5	277.0	222.6	190.7	168.1	127.1	104.4	86.3	81.8	86.3
72.5°	295.2	258.9	213.4	168.1	150.0	127.1	100.0	77.1	63.7	58.9	63.7
75°	227.0	199.7	163.4	122.6	108.9	95.2	68.1	54.5	45.5	40.8	45.5
77.5°	158.9	140.7	113.7	90.8	77.1	68.1	50.0	36.3	31.8	27.4	31.8
80°	108.9	95.2	77.1	58.9	50.0	40.8	31.8	22.6	18.2	18.2	18.2
82.5°	72.6	58.9	45.5	36.3	31.8	27.4	18.2	13.7	13.7	9.2	9.2
85°	40.8	36.3	27.4	22.6	18.2	13.7	9.2	9.2	4.5	4.5	4.5
87.5°	18.2	13.7	9.2	9.2	4.5	4.5	4.5	4.5	0.0	0.0	0.0
90°	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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2951.6	2951.6	2951.6	2951.6	2951.6	2951.6	2951.6	2951.6	2951.6	2951.6	2951.6
2.5°	2965.2	2951.6	2969.7	2951.6	2942.6	2951.6	2942.6	2969.7	2947.1	2928.9	2947.1
5°	2960.8	2942.6	2960.8	2947.1	2933.4	2937.9	2928.9	2956.0	2928.9	2915.3	2924.5
7.5°	2951.6	2937.9	2947.1	2933.4	2919.7	2924.5	2915.3	2937.9	2910.8	2897.1	2906.3
10°	2937.9	2924.5	2928.9	2919.7	2906.3	2906.3	2897.1	2915.3	2883.4	2865.3	2874.5
12.5°	2919.7	2901.6	2910.8	2897.1	2878.9	2878.9	2869.7	2883.4	2851.6	2833.4	2838.2
15°	2897.1	2878.9	2878.9	2865.3	2847.1	2847.1	2829.0	2842.6	2806.3	2788.2	2788.2
17.5°	2869.7	2847.1	2847.1	2833.4	2810.8	2806.3	2792.7	2806.3	2765.6	2747.1	2747.1
20°	2829.0	2810.8	2806.3	2797.1	2774.5	2770.0	2751.9	2756.3	2724.5	2710.8	2706.4
22.5°	2774.5	2756.3	2760.8	2747.1	2729.0	2724.5	2706.4	2720.0	2688.2	2674.5	2679.3
25°	2679.3	2670.1	2679.3	2674.5	2661.1	2661.1	2651.9	2661.1	2633.8	2624.5	2629.3
27.5°	2570.1	2565.6	2570.1	2570.1	2561.1	2561.1	2561.1	2574.8	2547.5	2543.0	2543.0
30°	2411.2	2411.2	2415.6	2420.4	2420.4	2429.3	2424.9	2443.0	2424.9	2415.6	2424.9
32.5°	2202.3	2220.4	2234.1	2234.1	2234.1	2243.3	2252.3	2266.0	2247.8	2252.3	2252.3
35°	1966.3	1979.7	1988.9	2011.5	1998.1	2029.7	2038.9	2057.1	2052.6	2061.5	2057.1
37.5°	1703.0	1721.1	1739.3	1771.1	1766.4	1802.7	1820.8	1857.1	1848.2	1866.3	1875.3
40°	1457.8	1484.9	1512.2	1534.8	1553.0	1589.3	1625.6	1671.1	1684.8	1698.2	1703.0
42.5°	1221.5	1248.9	1294.1	1326.0	1353.3	1412.2	1462.2	1516.7	1530.4	1557.5	1566.7
45°	1030.8	1053.4	1108.1	1148.9	1171.5	1257.8	1316.7	1384.9	1407.8	1439.6	1453.0
47.5°	853.7	894.5	948.9	998.9	1030.8	1121.5	1198.9	1271.5	1303.3	1339.6	1357.8
50°	699.3	744.8	817.4	862.7	908.2	1008.1	1094.4	1171.5	1203.4	1244.1	1262.3
52.5°	572.2	622.2	690.3	740.1	790.0	894.5	985.2	1058.1	1098.9	1126.3	1153.4
55°	449.6	504.1	572.2	626.7	667.4	781.1	858.2	930.8	958.2	980.8	994.5
57.5°	349.6	390.4	458.6	504.1	554.1	653.8	731.1	785.6	808.2	835.6	844.5
60°	272.6	313.3	377.0	422.2	467.8	563.0	640.4	694.8	717.4	740.1	753.7
62.5°	217.8	258.9	317.8	358.9	399.6	485.9	554.1	608.5	635.6	658.5	672.2
65°	172.6	208.9	258.9	299.7	331.5	408.6	476.7	526.7	554.1	576.7	590.4
67.5°	136.3	168.1	213.4	240.7	272.6	336.0	395.2	440.4	463.3	490.4	504.1
70°	104.4	127.1	168.1	190.7	213.4	267.8	313.3	358.9	381.5	399.6	408.6
72.5°	77.1	95.2	127.1	145.2	158.9	204.4	240.7	272.6	290.7	308.9	317.8
75°	54.5	68.1	90.8	104.4	113.7	145.2	177.1	199.7	213.4	227.0	240.7
77.5°	36.3	45.5	58.9	68.1	77.1	100.0	118.1	136.3	150.0	163.4	168.1
80°	22.6	31.8	40.8	45.5	50.0	63.7	81.8	90.8	100.0	108.9	113.7
82.5°	13.7	18.2	22.6	27.4	31.8	40.8	50.0	58.9	63.7	72.6	77.1
85°	4.5	9.2	9.2	13.7	13.7	22.6	27.4	31.8	36.3	40.8	45.5
87.5°	0.0	0.0	4.5	4.5	4.5	4.5	9.2	9.2	9.2	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P880603

CATALOG NUMBER: LD4C70D010 EU4709030 4LBDWNH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2951.6	2951.6	2951.6	2951.6	2951.6	2951.6	2951.6	2951.6
2.5°	2965.2	2951.6	2942.6	2937.9	2969.7	2928.9	2947.1	2951.6
5°	2947.1	2933.4	2924.5	2919.7	2947.1	2910.8	2924.5	2933.4
7.5°	2919.7	2910.8	2897.1	2892.6	2919.7	2878.9	2897.1	2901.6
10°	2888.2	2874.5	2865.3	2860.8	2883.4	2842.6	2860.8	2860.8
12.5°	2847.1	2838.2	2820.0	2820.0	2838.2	2801.9	2815.3	2815.3
15°	2792.7	2783.7	2765.6	2765.6	2783.7	2747.1	2760.8	2760.8
17.5°	2747.1	2738.2	2724.5	2720.0	2738.2	2701.9	2715.6	2710.8
20°	2710.8	2701.9	2683.7	2683.7	2697.4	2661.1	2674.5	2674.5
22.5°	2679.3	2674.5	2656.4	2656.4	2674.5	2638.2	2647.4	2638.2
25°	2629.3	2624.5	2606.4	2611.1	2620.1	2583.8	2597.4	2588.2
27.5°	2547.5	2547.5	2529.3	2524.8	2538.2	2506.7	2515.6	2511.2
30°	2420.4	2424.9	2402.2	2402.2	2406.7	2379.3	2393.0	2388.6
32.5°	2247.8	2252.3	2234.1	2229.7	2243.3	2220.4	2229.7	2229.7
35°	2057.1	2061.5	2047.9	2047.9	2061.5	2047.9	2047.9	2043.4
37.5°	1866.3	1875.3	1866.3	1870.8	1880.0	1866.3	1875.3	1870.8
40°	1711.9	1721.1	1707.4	1716.4	1725.6	1711.9	1725.6	1716.4
42.5°	1571.1	1584.8	1575.6	1584.8	1593.8	1584.8	1593.8	1580.4
45°	1466.7	1475.9	1471.2	1475.9	1484.9	1480.4	1484.9	1480.4
47.5°	1366.7	1384.9	1375.9	1384.9	1398.6	1389.6	1398.6	1384.9
50°	1276.0	1289.6	1285.2	1294.1	1298.6	1294.1	1303.3	1289.6
52.5°	1157.8	1171.5	1167.0	1167.0	1176.0	1167.0	1176.0	1167.0
55°	1003.7	1008.1	1008.1	1012.6	1008.1	1003.7	1008.1	998.9
57.5°	853.7	862.7	849.2	862.7	858.2	853.7	853.7	844.5
60°	758.2	771.9	763.0	771.9	767.4	767.4	767.4	763.0
62.5°	681.1	690.3	681.1	685.6	685.6	685.6	681.1	676.7
65°	594.8	608.5	599.3	604.1	599.3	594.8	599.3	594.8
67.5°	508.5	513.0	513.0	508.5	508.5	508.5	508.5	499.6
70°	413.3	417.8	413.3	422.2	417.8	413.3	417.8	408.6
72.5°	322.3	327.0	322.3	327.0	322.3	322.3	322.3	322.3
75°	240.7	245.2	245.2	245.2	245.2	245.2	236.3	245.2
77.5°	172.6	172.6	172.6	177.1	172.6	172.6	172.6	172.6
80°	118.1	118.1	118.1	122.6	118.1	122.6	118.1	122.6
82.5°	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
85°	40.8	45.5	45.5	40.8	40.8	40.8	40.8	40.8
87.5°	9.2	4.5	4.5	4.5	4.5	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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















(END OF REPORT)