

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: P880606

Luminaire Tested: **LD4C70D010 EU4709050 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: P880606  
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 EU4709050 4LBDWNH  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBDWN TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

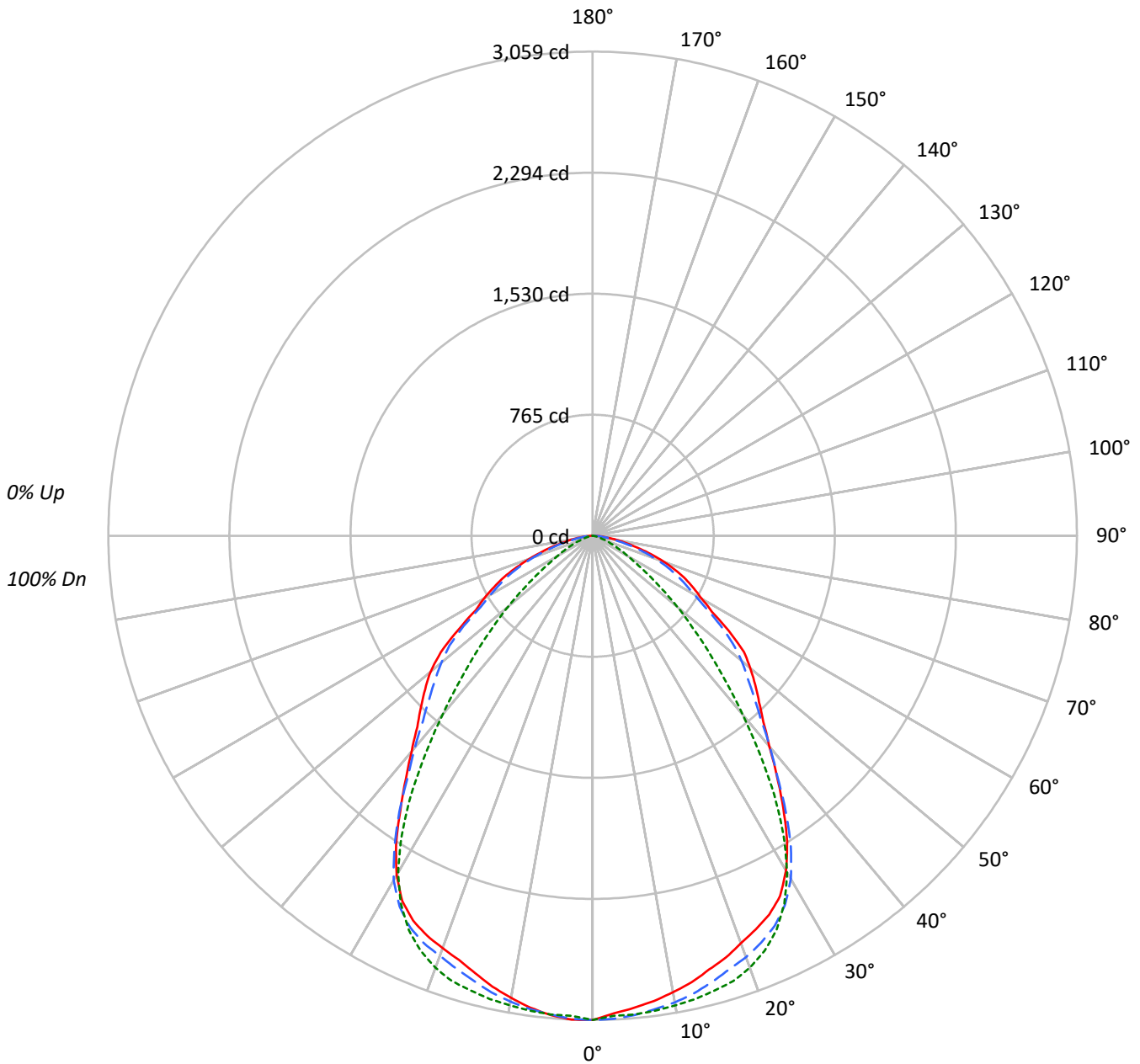
Lumens per Lamp: N/A  
Luminaire Lumens: 6226.0 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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

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

	0°	90°	180°
0°	375833	375833	375833
5°	369167	374371	374938
10°	365202	375780	369892
15°	360957	378306	363946
20°	358091	379663	362406
25°	357903	372583	363637
30°	346505	348519	351186
35°	314815	300013	317635
40°	278521	236231	285289
45°	258388	179891	266588
50°	248273	133158	255478
55°	224791	91758	221771
60°	195435	62434	194305
65°	188807	45174	179214
70°	170728	30460	152121
75°	140692	20079	120613
80°	113268	13301	89921
85°	93033	6484	59625



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.8	4.6
10°-20°	825.7	13.3
20°-30°	1247.4	20.0
30°-40°	1305.5	21.0
40°-50°	1057.3	17.0
50°-60°	769.1	12.4
60°-70°	474.3	7.6
70°-80°	214.3	3.4
80°-90°	43.6	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°	2361.9	37.9
0°-40°	3667.4	58.9
0°-60°	5493.8	88.2
0°-90°	6226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6226.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3059	3059	3059	3059	3059	
5°	2994	3040	3036	3036	3040	284
15°	2838	2918	2974	2909	2862	802
25°	2640	2720	2749	2730	2683	1210
35°	2099	2127	2000	2127	2118	1308
45°	1487	1440	1035	1459	1534	1156
55°	1050	984	428	993	1035	936
65°	650	584	155	574	616	636
75°	296	254	42	221	254	322
85°	66	52	5	38	42	76
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°	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2
2.5°	3021.5	3021.5	3049.9	3082.6	3054.5	3026.2	3045.0	3035.7	3068.7	3068.7	3054.5
5°	2993.5	3002.7	3026.2	3054.5	3031.1	3002.7	3026.2	3016.9	3049.9	3049.9	3040.3
7.5°	2965.1	2969.7	2998.1	3031.1	3007.4	2979.3	2998.1	2993.5	3021.5	3026.2	3016.9
10°	2927.5	2932.1	2960.5	2993.5	2969.7	2946.3	2965.1	2960.5	2998.1	2998.1	2993.5
12.5°	2889.8	2894.5	2922.8	2950.9	2927.5	2904.0	2922.8	2922.8	2960.5	2965.1	2960.5
15°	2838.0	2847.3	2871.0	2899.1	2885.2	2856.8	2875.7	2875.7	2908.6	2917.9	2917.9
17.5°	2795.8	2800.4	2823.8	2852.2	2833.4	2809.7	2828.5	2828.5	2861.5	2871.0	2871.0
20°	2739.0	2748.6	2772.0	2800.4	2786.2	2767.4	2781.6	2781.6	2819.2	2828.5	2833.4
22.5°	2692.1	2701.4	2720.2	2758.1	2734.4	2720.2	2739.0	2734.4	2777.0	2781.6	2781.6
25°	2640.3	2649.9	2673.3	2696.8	2682.6	2668.7	2682.6	2682.6	2715.6	2720.2	2720.2
27.5°	2565.1	2569.7	2593.2	2616.9	2602.7	2583.9	2602.7	2598.1	2630.8	2635.7	2630.8
30°	2442.6	2452.2	2461.5	2494.5	2480.3	2466.1	2484.9	2475.6	2508.6	2508.6	2503.7
32.5°	2287.2	2287.2	2306.3	2329.8	2310.9	2301.4	2315.6	2320.2	2343.9	2343.9	2329.8
35°	2099.1	2108.6	2122.5	2136.7	2122.5	2113.3	2127.4	2122.5	2150.9	2141.3	2127.4
37.5°	1910.9	1915.6	1929.7	1948.6	1929.7	1915.6	1920.2	1915.6	1939.0	1939.0	1915.6
40°	1736.7	1746.2	1755.5	1774.3	1755.5	1746.2	1750.9	1736.7	1765.0	1755.5	1741.3
42.5°	1595.4	1600.1	1614.2	1623.8	1605.0	1600.1	1605.0	1595.4	1609.6	1600.1	1572.0
45°	1487.2	1487.2	1492.1	1506.0	1487.2	1482.5	1482.5	1473.0	1487.2	1468.4	1440.3
47.5°	1393.1	1397.7	1402.7	1411.9	1397.7	1383.8	1388.5	1369.7	1378.9	1364.7	1327.1
50°	1299.0	1308.3	1313.2	1322.5	1308.3	1299.0	1303.7	1284.9	1284.9	1261.4	1228.4
52.5°	1205.0	1209.6	1205.0	1214.2	1205.0	1190.8	1195.4	1176.6	1176.6	1148.5	1115.5
55°	1049.5	1054.2	1059.1	1068.3	1059.1	1044.9	1054.2	1040.3	1040.3	1021.2	983.5
57.5°	894.1	899.0	903.7	908.3	908.3	899.0	903.7	894.1	889.5	875.3	847.2
60°	795.4	795.4	795.4	800.0	795.4	790.8	790.8	781.2	781.2	762.4	734.3
62.5°	720.1	724.8	724.8	729.4	724.8	720.1	715.5	706.0	701.3	682.5	658.8
65°	649.5	649.5	644.9	654.1	649.5	644.9	644.9	635.3	626.1	607.3	583.5
67.5°	564.7	569.3	564.7	569.3	569.3	564.7	560.1	550.5	545.9	531.7	503.6
70°	475.3	475.3	475.3	480.2	475.3	475.3	480.2	466.0	461.4	442.3	418.8
72.5°	385.8	390.8	390.8	385.8	390.8	381.2	381.2	381.2	376.6	357.8	334.0
75°	296.4	301.3	301.3	305.9	301.3	296.4	296.4	291.8	287.1	272.9	254.1
77.5°	221.1	221.1	225.8	225.8	225.8	221.1	221.1	211.9	211.9	202.3	183.5
80°	160.1	160.1	155.4	160.1	160.1	155.4	155.4	150.5	150.5	141.2	127.1
82.5°	103.6	108.3	108.3	108.3	108.3	103.6	103.6	103.6	98.7	94.1	84.8
85°	66.0	66.0	66.0	66.0	70.6	66.0	70.6	66.0	66.0	56.4	51.8
87.5°	28.4	28.4	28.4	33.0	33.0	28.4	28.4	28.4	28.4	28.4	23.4
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°	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2
2.5°	3054.5	3059.2	3045.0	3063.8	3049.9	3054.5	3059.2	3054.5	3035.7	3035.7	3087.5
5°	3035.7	3045.0	3031.1	3054.5	3045.0	3045.0	3045.5	3049.9	3031.1	3035.7	3082.6
7.5°	3016.9	3031.1	3021.5	3045.0	3031.1	3031.1	3040.3	3040.3	3021.5	3026.2	3068.7
10°	2988.5	3007.4	3002.7	3026.2	3012.3	3012.3	3026.2	3026.2	3007.4	3012.3	3054.5
12.5°	2965.1	2983.9	2979.3	3002.7	2993.5	2998.1	3002.7	3012.3	2988.5	2998.1	3035.7
15°	2927.5	2946.3	2946.3	2969.7	2960.5	2969.7	2979.3	2993.5	2974.4	2974.4	3012.3
17.5°	2885.2	2908.6	2908.6	2927.5	2927.5	2932.1	2950.9	2965.1	2946.3	2950.9	2983.9
20°	2838.0	2866.4	2866.4	2889.8	2885.2	2894.5	2908.6	2922.8	2904.0	2904.0	2941.6
22.5°	2790.8	2814.6	2819.2	2833.4	2833.4	2838.0	2852.2	2861.5	2838.0	2838.0	2875.7
25°	2725.1	2748.6	2753.2	2762.8	2753.2	2753.2	2762.8	2772.0	2748.6	2748.6	2781.6
27.5°	2635.7	2659.1	2659.1	2654.5	2645.0	2649.9	2645.0	2649.9	2626.1	2621.5	2654.5
30°	2503.7	2517.9	2517.9	2513.3	2499.1	2499.1	2484.9	2489.8	2456.8	2456.8	2484.9
32.5°	2325.1	2339.0	2329.8	2320.2	2301.4	2292.1	2282.6	2277.9	2244.9	2244.9	2277.9
35°	2113.3	2122.5	2108.6	2089.8	2066.1	2051.9	2038.0	2019.2	1995.4	2000.4	2019.2
37.5°	1896.7	1896.7	1877.9	1840.3	1821.5	1797.8	1774.3	1774.3	1736.7	1732.0	1746.2
40°	1713.2	1694.4	1661.4	1609.6	1576.6	1553.2	1520.2	1501.4	1473.0	1473.0	1496.7
42.5°	1548.5	1510.9	1468.4	1397.7	1364.7	1336.7	1294.4	1275.6	1242.6	1237.7	1251.9
45°	1402.7	1364.7	1303.7	1228.4	1186.2	1153.2	1091.8	1068.3	1040.3	1035.4	1044.9
47.5°	1284.9	1242.6	1167.3	1068.3	1026.1	983.5	922.5	889.5	866.0	851.8	866.0
50°	1181.2	1124.8	1044.9	941.3	884.8	847.2	772.0	739.0	706.0	696.7	701.3
52.5°	1068.3	1011.9	927.1	818.8	767.0	710.6	640.0	593.1	564.7	550.5	564.7
55°	945.9	889.5	805.0	696.7	640.0	588.4	512.9	475.3	442.3	428.4	442.3
57.5°	814.2	762.4	687.1	578.9	527.1	480.2	409.6	371.9	338.9	329.4	338.9
60°	701.3	658.8	583.5	480.2	437.6	385.8	324.8	287.1	258.8	254.1	258.8
62.5°	626.1	578.9	508.3	409.6	367.0	324.8	268.3	230.7	207.0	202.3	207.0
65°	550.5	499.0	433.0	348.2	305.9	272.9	216.5	183.5	160.1	155.4	160.1
67.5°	466.0	418.8	362.4	287.1	254.1	221.1	174.2	141.2	122.4	117.8	122.4
70°	385.8	343.6	287.1	230.7	197.7	174.2	131.7	108.3	89.4	84.8	89.4
72.5°	305.9	268.3	221.1	174.2	155.4	131.7	103.6	79.9	66.0	61.1	66.0
75°	235.3	207.0	169.3	127.1	112.9	98.7	70.6	56.4	47.2	42.3	47.2
77.5°	164.7	145.9	117.8	94.1	79.9	70.6	51.8	37.6	33.0	28.4	33.0
80°	112.9	98.7	79.9	61.1	51.8	42.3	33.0	23.4	18.8	18.8	18.8
82.5°	75.3	61.1	47.2	37.6	33.0	28.4	18.8	14.2	14.2	9.6	9.6
85°	42.3	37.6	28.4	23.4	18.8	14.2	9.6	9.6	4.6	4.6	4.6
87.5°	18.8	14.2	9.6	9.6	4.6	4.6	4.6	4.6	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°	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2
2.5°	3073.3	3059.2	3078.0	3059.2	3049.9	3059.2	3049.9	3078.0	3054.5	3035.7	3054.5
5°	3068.7	3049.9	3068.7	3054.5	3040.3	3045.0	3035.7	3063.8	3035.7	3021.5	3031.1
7.5°	3059.2	3045.0	3054.5	3040.3	3026.2	3031.1	3021.5	3045.0	3016.9	3002.7	3012.3
10°	3045.0	3031.1	3035.7	3026.2	3012.3	3012.3	3002.7	3021.5	2988.5	2969.7	2979.3
12.5°	3026.2	3007.4	3016.9	3002.7	2983.9	2983.9	2974.4	2988.5	2955.5	2936.7	2941.6
15°	3002.7	2983.9	2983.9	2969.7	2950.9	2950.9	2932.1	2946.3	2908.6	2889.8	2889.8
17.5°	2974.4	2950.9	2950.9	2936.7	2913.3	2908.6	2894.5	2908.6	2866.4	2847.3	2847.3
20°	2932.1	2913.3	2908.6	2899.1	2875.7	2871.0	2852.2	2856.8	2823.8	2809.7	2805.0
22.5°	2875.7	2856.8	2861.5	2847.3	2828.5	2823.8	2805.0	2819.2	2786.2	2772.0	2777.0
25°	2777.0	2767.4	2777.0	2772.0	2758.1	2758.1	2748.6	2758.1	2729.8	2720.2	2725.1
27.5°	2663.8	2659.1	2663.8	2663.8	2654.5	2654.5	2654.5	2668.7	2640.3	2635.7	2635.7
30°	2499.1	2499.1	2503.7	2508.6	2508.6	2517.9	2513.3	2532.1	2513.3	2503.7	2513.3
32.5°	2282.6	2301.4	2315.6	2315.6	2315.6	2325.1	2334.4	2348.6	2329.8	2334.4	2334.4
35°	2038.0	2051.9	2061.4	2084.9	2071.0	2103.7	2113.3	2132.1	2127.4	2136.7	2132.1
37.5°	1765.0	1783.9	1802.7	1835.7	1830.8	1868.4	1887.2	1924.8	1915.6	1934.4	1943.6
40°	1510.9	1539.0	1567.4	1590.8	1609.6	1647.2	1684.9	1732.0	1746.2	1760.1	1765.0
42.5°	1266.0	1294.4	1341.3	1374.3	1402.7	1463.7	1515.5	1572.0	1586.2	1614.2	1623.8
45°	1068.3	1091.8	1148.5	1190.8	1214.2	1303.7	1364.7	1435.4	1459.1	1492.1	1506.0
47.5°	884.8	927.1	983.5	1035.4	1068.3	1162.4	1242.6	1317.9	1350.8	1388.5	1407.3
50°	724.8	772.0	847.2	894.1	941.3	1044.9	1134.3	1214.2	1247.2	1289.5	1308.3
52.5°	593.1	644.9	715.5	767.0	818.8	927.1	1021.2	1096.7	1139.0	1167.3	1195.4
55°	466.0	522.5	593.1	649.5	691.8	809.6	889.5	964.7	993.1	1016.5	1030.7
57.5°	362.4	404.6	475.3	522.5	574.3	677.6	757.8	814.2	837.7	866.0	875.3
60°	282.5	324.8	390.8	437.6	484.8	583.5	663.7	720.1	743.6	767.0	781.2
62.5°	225.8	268.3	329.4	371.9	414.2	503.6	574.3	630.7	658.8	682.5	696.7
65°	178.9	216.5	268.3	310.6	343.6	423.5	494.1	545.9	574.3	597.7	611.9
67.5°	141.2	174.2	221.1	249.5	282.5	348.2	409.6	456.5	480.2	508.3	522.5
70°	108.3	131.7	174.2	197.7	221.1	277.6	324.8	371.9	395.4	414.2	423.5
72.5°	79.9	98.7	131.7	150.5	164.7	211.9	249.5	282.5	301.3	320.1	329.4
75°	56.4	70.6	94.1	108.3	117.8	150.5	183.5	207.0	221.1	235.3	249.5
77.5°	37.6	47.2	61.1	70.6	79.9	103.6	122.4	141.2	155.4	169.3	174.2
80°	23.4	33.0	42.3	47.2	51.8	66.0	84.8	94.1	103.6	112.9	117.8
82.5°	14.2	18.8	23.4	28.4	33.0	42.3	51.8	61.1	66.0	75.3	79.9
85°	4.6	9.6	9.6	14.2	14.2	23.4	28.4	33.0	37.6	42.3	47.2
87.5°	0.0	0.0	4.6	4.6	4.6	4.6	9.6	9.6	9.6	9.6	9.6
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: P880606

CATALOG NUMBER: LD4C70D010 EU4709050 4LBDWNH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2	3059.2
2.5°	3073.3	3059.2	3049.9	3045.0	3078.0	3035.7	3054.5	3059.2
5°	3054.5	3040.3	3031.1	3026.2	3054.5	3016.9	3031.1	3040.3
7.5°	3026.2	3016.9	3002.7	2998.1	3026.2	2983.9	3002.7	3007.4
10°	2993.5	2979.3	2969.7	2965.1	2988.5	2946.3	2965.1	2965.1
12.5°	2950.9	2941.6	2922.8	2922.8	2941.6	2904.0	2917.9	2917.9
15°	2894.5	2885.2	2866.4	2866.4	2885.2	2847.3	2861.5	2861.5
17.5°	2847.3	2838.0	2823.8	2819.2	2838.0	2800.4	2814.6	2809.7
20°	2809.7	2800.4	2781.6	2781.6	2795.8	2758.1	2772.0	2772.0
22.5°	2777.0	2772.0	2753.2	2753.2	2772.0	2734.4	2744.0	2734.4
25°	2725.1	2720.2	2701.4	2706.3	2715.6	2678.0	2692.1	2682.6
27.5°	2640.3	2640.3	2621.5	2616.9	2630.8	2598.1	2607.3	2602.7
30°	2508.6	2513.3	2489.8	2489.8	2494.5	2466.1	2480.3	2475.6
32.5°	2329.8	2334.4	2315.6	2310.9	2325.1	2301.4	2310.9	2310.9
35°	2132.1	2136.7	2122.5	2122.5	2136.7	2122.5	2122.5	2117.9
37.5°	1934.4	1943.6	1934.4	1939.0	1948.6	1934.4	1943.6	1939.0
40°	1774.3	1783.9	1769.7	1778.9	1788.5	1774.3	1788.5	1778.9
42.5°	1628.4	1642.6	1633.1	1642.6	1651.9	1642.6	1651.9	1638.0
45°	1520.2	1529.7	1524.8	1529.7	1539.0	1534.4	1539.0	1534.4
47.5°	1416.6	1435.4	1426.1	1435.4	1449.5	1440.3	1449.5	1435.4
50°	1322.5	1336.7	1332.0	1341.3	1345.9	1341.3	1350.8	1336.7
52.5°	1200.0	1214.2	1209.6	1209.6	1218.9	1209.6	1218.9	1209.6
55°	1040.3	1044.9	1044.9	1049.5	1044.9	1040.3	1044.9	1035.4
57.5°	884.8	894.1	880.2	894.1	889.5	884.8	884.8	875.3
60°	785.8	800.0	790.8	800.0	795.4	795.4	795.4	790.8
62.5°	706.0	715.5	706.0	710.6	710.6	710.6	706.0	701.3
65°	616.5	630.7	621.2	626.1	621.2	616.5	621.2	616.5
67.5°	527.1	531.7	531.7	527.1	527.1	527.1	527.1	517.8
70°	428.4	433.0	428.4	437.6	433.0	428.4	433.0	423.5
72.5°	334.0	338.9	334.0	338.9	334.0	334.0	334.0	334.0
75°	249.5	254.1	254.1	254.1	254.1	254.1	244.9	254.1
77.5°	178.9	178.9	178.9	183.5	178.9	178.9	178.9	178.9
80°	122.4	122.4	122.4	127.1	122.4	127.1	122.4	127.1
82.5°	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
85°	42.3	47.2	47.2	42.3	42.3	42.3	42.3	42.3
87.5°	9.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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















(END OF REPORT)