

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: P880605

Luminaire Tested: **LD4C70D010 EU4709040 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: P880605
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 EU4709040 4LBDWNH
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBDWN TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

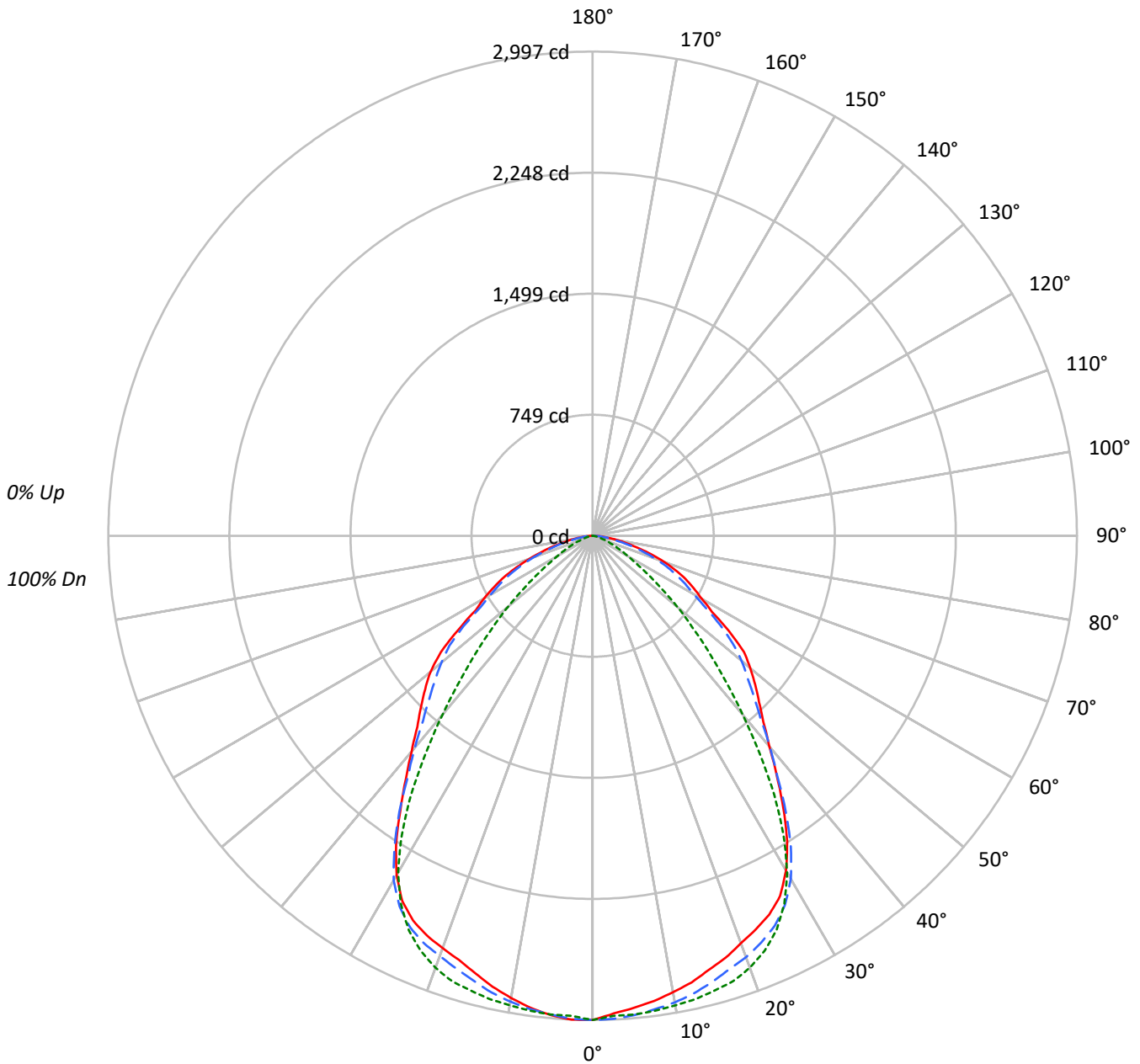
Lumens per Lamp: N/A
Luminaire Lumens: 6100.0 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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					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°	368229	368229	368229
5°	361693	366799	367354
10°	357804	368171	362407
15°	353657	370649	356582
20°	350848	371976	355071
25°	350664	365046	356276
30°	339497	341469	344079
35°	308441	293939	311201
40°	272876	231452	279516
45°	253158	176243	261185
50°	243246	130463	250299
55°	220250	89895	217273
60°	191479	61181	190374
65°	184999	44273	175580
70°	167279	29849	149032
75°	137844	19651	118193
80°	110934	13018	88082
85°	91200	6343	58357



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.9	4.6
10°-20°	809.0	13.3
20°-30°	1222.2	20.0
30°-40°	1279.1	21.0
40°-50°	1035.9	17.0
50°-60°	753.5	12.4
60°-70°	464.7	7.6
70°-80°	210.0	3.4
80°-90°	42.7	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°	2314.1	37.9
0°-40°	3593.2	58.9
0°-60°	5382.6	88.2
0°-90°	6100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6100.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2997	2997	2997	2997	2997	
5°	2933	2979	2974	2974	2979	278
15°	2781	2859	2914	2850	2804	786
25°	2587	2665	2693	2674	2628	1185
35°	2057	2084	1960	2084	2075	1282
45°	1457	1411	1014	1430	1503	1133
55°	1028	964	420	973	1014	917
65°	636	572	152	563	604	623
75°	290	249	41	217	249	315
85°	65	51	4	37	41	74
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°	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3
2.5°	2960.4	2960.4	2988.2	3020.2	2992.7	2964.9	2983.4	2974.3	3006.6	3006.6	2992.7
5°	2932.9	2942.0	2964.9	2992.7	2969.7	2942.0	2964.9	2955.8	2988.2	2988.2	2978.8
7.5°	2905.1	2909.6	2937.4	2969.7	2946.5	2919.0	2937.4	2932.9	2960.4	2964.9	2955.8
10°	2868.2	2872.8	2900.5	2932.9	2909.6	2886.7	2905.1	2900.5	2937.4	2937.4	2932.9
12.5°	2831.4	2835.9	2863.7	2891.2	2868.2	2845.2	2863.7	2863.7	2900.5	2905.1	2900.5
15°	2780.6	2789.7	2812.9	2840.4	2826.8	2799.0	2817.5	2817.5	2849.8	2858.9	2858.9
17.5°	2739.2	2743.7	2766.7	2794.5	2776.1	2752.8	2771.2	2771.2	2803.6	2812.9	2812.9
20°	2683.6	2693.0	2715.9	2743.7	2729.8	2711.4	2725.3	2725.3	2762.2	2771.2	2776.1
22.5°	2637.7	2646.7	2665.2	2702.3	2679.1	2665.2	2683.6	2679.1	2720.8	2725.3	2725.3
25°	2586.9	2596.3	2619.2	2642.2	2628.3	2614.7	2628.3	2628.3	2660.6	2665.2	2665.2
27.5°	2513.2	2517.7	2540.7	2563.9	2550.0	2531.6	2550.0	2545.5	2577.5	2582.4	2577.5
30°	2393.2	2402.6	2411.6	2444.0	2430.1	2416.2	2434.6	2425.5	2457.9	2457.9	2453.0
32.5°	2240.9	2240.9	2259.6	2282.6	2264.2	2254.8	2268.7	2273.2	2296.5	2296.5	2282.6
35°	2056.6	2065.9	2079.6	2093.5	2079.6	2070.5	2084.4	2079.6	2107.3	2098.0	2084.4
37.5°	1872.3	1876.8	1890.7	1909.1	1890.7	1876.8	1881.3	1876.8	1899.8	1899.8	1876.8
40°	1701.5	1710.9	1720.0	1738.4	1720.0	1710.9	1715.4	1701.5	1729.3	1720.0	1706.1
42.5°	1563.1	1567.7	1581.6	1590.9	1572.5	1567.7	1572.5	1563.1	1577.0	1567.7	1540.2
45°	1457.1	1457.1	1461.9	1475.5	1457.1	1452.5	1452.5	1443.2	1457.1	1438.6	1411.1
47.5°	1364.9	1369.5	1374.3	1383.3	1369.5	1355.8	1360.4	1341.9	1351.0	1337.1	1300.3
50°	1272.7	1281.8	1286.6	1295.7	1281.8	1272.7	1277.3	1258.9	1258.9	1235.9	1203.6
52.5°	1180.6	1185.1	1180.6	1189.7	1180.6	1166.7	1171.2	1152.8	1152.8	1125.3	1093.0
55°	1028.3	1032.8	1037.7	1046.7	1037.7	1023.8	1032.8	1019.2	1019.2	1000.5	963.6
57.5°	876.0	880.8	885.4	889.9	889.9	880.8	885.4	876.0	871.5	857.6	830.1
60°	779.3	779.3	779.3	783.8	779.3	774.8	774.8	765.4	765.4	747.0	719.5
62.5°	705.6	710.1	710.1	714.6	710.1	705.6	701.0	691.7	687.1	668.7	645.4
65°	636.4	636.4	631.8	640.9	636.4	631.8	631.8	622.5	613.4	595.0	571.7
67.5°	553.3	557.8	553.3	557.8	557.8	553.3	548.7	539.4	534.8	521.0	493.4
70°	465.7	465.7	465.7	470.5	465.7	465.7	470.5	456.6	452.0	433.3	410.4
72.5°	378.0	382.8	382.8	378.0	382.8	373.5	373.5	373.5	368.9	350.5	327.3
75°	290.4	295.2	295.2	299.8	295.2	290.4	290.4	285.9	281.3	267.4	249.0
77.5°	216.7	216.7	221.2	221.2	221.2	216.7	216.7	207.6	207.6	198.2	179.8
80°	156.8	156.8	152.3	156.8	156.8	152.3	152.3	147.5	147.5	138.4	124.5
82.5°	101.5	106.1	106.1	106.1	106.1	101.5	101.5	101.5	96.7	92.2	83.1
85°	64.7	64.7	64.7	64.7	69.2	64.7	69.2	64.7	64.7	55.3	50.8
87.5°	27.8	27.8	27.8	32.3	32.3	27.8	27.8	27.8	27.8	27.8	23.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3
2.5°	2992.7	2997.3	2983.4	3001.8	2988.2	2992.7	2997.3	2992.7	2974.3	2974.3	3025.0
5°	2974.3	2983.4	2969.7	2992.7	2983.4	2983.4	2992.7	2988.2	2969.7	2974.3	3020.2
7.5°	2955.8	2969.7	2960.4	2983.4	2969.7	2969.7	2978.8	2978.8	2960.4	2964.9	3006.6
10°	2928.1	2946.5	2942.0	2964.9	2951.3	2951.3	2964.9	2964.9	2946.5	2951.3	2992.7
12.5°	2905.1	2923.5	2919.0	2942.0	2932.9	2937.4	2942.0	2951.3	2928.1	2937.4	2974.3
15°	2868.2	2886.7	2886.7	2909.6	2900.5	2909.6	2919.0	2932.9	2914.2	2914.2	2951.3
17.5°	2826.8	2849.8	2849.8	2868.2	2868.2	2872.8	2891.2	2905.1	2886.7	2891.2	2923.5
20°	2780.6	2808.4	2808.4	2831.4	2826.8	2835.9	2849.8	2863.7	2845.2	2845.2	2882.1
22.5°	2734.4	2757.6	2762.2	2776.1	2776.1	2780.6	2794.5	2803.6	2780.6	2780.6	2817.5
25°	2670.0	2693.0	2697.5	2706.9	2697.5	2697.5	2706.9	2715.9	2693.0	2693.0	2725.3
27.5°	2582.4	2605.3	2605.3	2600.8	2591.4	2596.3	2591.4	2596.3	2573.0	2568.5	2600.8
30°	2453.0	2466.9	2466.9	2462.4	2448.5	2448.5	2434.6	2439.4	2407.1	2407.1	2434.6
32.5°	2278.1	2291.7	2282.6	2273.2	2254.8	2245.7	2236.4	2231.8	2199.5	2199.5	2231.8
35°	2070.5	2079.6	2065.9	2047.5	2024.3	2010.4	1996.7	1978.3	1955.1	1959.9	1978.3
37.5°	1858.4	1858.4	1839.9	1803.1	1784.6	1761.4	1738.4	1738.4	1701.5	1697.0	1710.9
40°	1678.6	1660.1	1627.8	1577.0	1544.7	1521.7	1489.4	1471.0	1443.2	1443.2	1466.4
42.5°	1517.2	1480.3	1438.6	1369.5	1337.1	1309.6	1268.2	1249.8	1217.4	1212.6	1226.5
45°	1374.3	1337.1	1277.3	1203.6	1162.1	1129.8	1069.7	1046.7	1019.2	1014.4	1023.8
47.5°	1258.9	1217.4	1143.7	1046.7	1005.3	963.6	903.8	871.5	848.5	834.6	848.5
50°	1157.3	1102.0	1023.8	922.2	866.9	830.1	756.3	724.0	691.7	682.6	687.1
52.5°	1046.7	991.4	908.3	802.3	751.5	696.2	627.0	581.1	553.3	539.4	553.3
55°	926.8	871.5	788.7	682.6	627.0	576.5	502.5	465.7	433.3	419.7	433.3
57.5°	797.7	747.0	673.2	567.2	516.4	470.5	401.3	364.4	332.1	322.7	332.1
60°	687.1	645.4	571.7	470.5	428.8	378.0	318.2	281.3	253.5	249.0	253.5
62.5°	613.4	567.2	498.0	401.3	359.6	318.2	262.9	226.0	202.8	198.2	202.8
65°	539.4	488.9	424.2	341.2	299.8	267.4	212.1	179.8	156.8	152.3	156.8
67.5°	456.6	410.4	355.1	281.3	249.0	216.7	170.7	138.4	120.0	115.4	120.0
70°	378.0	336.6	281.3	226.0	193.7	170.7	129.0	106.1	87.6	83.1	87.6
72.5°	299.8	262.9	216.7	170.7	152.3	129.0	101.5	78.3	64.7	59.8	64.7
75°	230.6	202.8	165.9	124.5	110.6	96.7	69.2	55.3	46.2	41.4	46.2
77.5°	161.4	142.9	115.4	92.2	78.3	69.2	50.8	36.9	32.3	27.8	32.3
80°	110.6	96.7	78.3	59.8	50.8	41.4	32.3	23.0	18.4	18.4	18.4
82.5°	73.7	59.8	46.2	36.9	32.3	27.8	18.4	13.9	13.9	9.4	9.4
85°	41.4	36.9	27.8	23.0	18.4	13.9	9.4	9.4	4.5	4.5	4.5
87.5°	18.4	13.9	9.4	9.4	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°	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3
2.5°	3011.1	2997.3	3015.7	2997.3	2988.2	2997.3	2988.2	3015.7	2992.7	2974.3	2992.7
5°	3006.6	2988.2	3006.6	2992.7	2978.8	2983.4	2974.3	3001.8	2974.3	2960.4	2969.7
7.5°	2997.3	2983.4	2992.7	2978.8	2964.9	2969.7	2960.4	2983.4	2955.8	2942.0	2951.3
10°	2983.4	2969.7	2974.3	2964.9	2951.3	2951.3	2942.0	2960.4	2928.1	2909.6	2919.0
12.5°	2964.9	2946.5	2955.8	2942.0	2923.5	2923.5	2914.2	2928.1	2895.7	2877.3	2882.1
15°	2942.0	2923.5	2923.5	2909.6	2891.2	2891.2	2872.8	2886.7	2849.8	2831.4	2831.4
17.5°	2914.2	2891.2	2891.2	2877.3	2854.3	2849.8	2835.9	2849.8	2808.4	2789.7	2789.7
20°	2872.8	2854.3	2849.8	2840.4	2817.5	2812.9	2794.5	2799.0	2766.7	2752.8	2748.3
22.5°	2817.5	2799.0	2803.6	2789.7	2771.2	2766.7	2748.3	2762.2	2729.8	2715.9	2720.8
25°	2720.8	2711.4	2720.8	2715.9	2702.3	2702.3	2693.0	2702.3	2674.5	2665.2	2670.0
27.5°	2609.9	2605.3	2609.9	2609.9	2600.8	2600.8	2600.8	2614.7	2586.9	2582.4	2582.4
30°	2448.5	2448.5	2453.0	2457.9	2457.9	2466.9	2462.4	2480.8	2462.4	2453.0	2462.4
32.5°	2236.4	2254.8	2268.7	2268.7	2268.7	2278.1	2287.1	2301.0	2282.6	2287.1	2287.1
35°	1996.7	2010.4	2019.7	2042.7	2029.1	2061.1	2070.5	2088.9	2084.4	2093.5	2088.9
37.5°	1729.3	1747.8	1766.2	1798.5	1793.7	1830.6	1849.0	1885.9	1876.8	1895.2	1904.3
40°	1480.3	1507.8	1535.6	1558.6	1577.0	1613.9	1650.8	1697.0	1710.9	1724.5	1729.3
42.5°	1240.4	1268.2	1314.2	1346.5	1374.3	1434.1	1484.9	1540.2	1554.1	1581.6	1590.9
45°	1046.7	1069.7	1125.3	1166.7	1189.7	1277.3	1337.1	1406.3	1429.6	1461.9	1475.5
47.5°	866.9	908.3	963.6	1014.4	1046.7	1138.9	1217.4	1291.2	1323.5	1360.4	1378.8
50°	710.1	756.3	830.1	876.0	922.2	1023.8	1111.4	1189.7	1222.0	1263.4	1281.8
52.5°	581.1	631.8	701.0	751.5	802.3	908.3	1000.5	1074.5	1115.9	1143.7	1171.2
55°	456.6	511.9	581.1	636.4	677.8	793.2	871.5	945.2	973.0	996.0	1009.9
57.5°	355.1	396.5	465.7	511.9	562.6	663.9	742.4	797.7	820.7	848.5	857.6
60°	276.8	318.2	382.8	428.8	475.0	571.7	650.3	705.6	728.5	751.5	765.4
62.5°	221.2	262.9	322.7	364.4	405.8	493.4	562.6	617.9	645.4	668.7	682.6
65°	175.3	212.1	262.9	304.3	336.6	414.9	484.1	534.8	562.6	585.6	599.5
67.5°	138.4	170.7	216.7	244.5	276.8	341.2	401.3	447.2	470.5	498.0	511.9
70°	106.1	129.0	170.7	193.7	216.7	272.0	318.2	364.4	387.4	405.8	414.9
72.5°	78.3	96.7	129.0	147.5	161.4	207.6	244.5	276.8	295.2	313.6	322.7
75°	55.3	69.2	92.2	106.1	115.4	147.5	179.8	202.8	216.7	230.6	244.5
77.5°	36.9	46.2	59.8	69.2	78.3	101.5	120.0	138.4	152.3	165.9	170.7
80°	23.0	32.3	41.4	46.2	50.8	64.7	83.1	92.2	101.5	110.6	115.4
82.5°	13.9	18.4	23.0	27.8	32.3	41.4	50.8	59.8	64.7	73.7	78.3
85°	4.5	9.4	9.4	13.9	13.9	23.0	27.8	32.3	36.9	41.4	46.2
87.5°	0.0	0.0	4.5	4.5	4.5	4.5	9.4	9.4	9.4	9.4	9.4
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: P880605

CATALOG NUMBER: LD4C70D010 EU4709040 4LBDWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3
2.5°	3011.1	2997.3	2988.2	2983.4	3015.7	2974.3	2992.7	2997.3
5°	2992.7	2978.8	2969.7	2964.9	2992.7	2955.8	2969.7	2978.8
7.5°	2964.9	2955.8	2942.0	2937.4	2964.9	2923.5	2942.0	2946.5
10°	2932.9	2919.0	2909.6	2905.1	2928.1	2886.7	2905.1	2905.1
12.5°	2891.2	2882.1	2863.7	2863.7	2882.1	2845.2	2858.9	2858.9
15°	2835.9	2826.8	2808.4	2808.4	2826.8	2789.7	2803.6	2803.6
17.5°	2789.7	2780.6	2766.7	2762.2	2780.6	2743.7	2757.6	2752.8
20°	2752.8	2743.7	2725.3	2725.3	2739.2	2702.3	2715.9	2715.9
22.5°	2720.8	2715.9	2697.5	2697.5	2715.9	2679.1	2688.4	2679.1
25°	2670.0	2665.2	2646.7	2651.6	2660.6	2623.8	2637.7	2628.3
27.5°	2586.9	2586.9	2568.5	2563.9	2577.5	2545.5	2554.6	2550.0
30°	2457.9	2462.4	2439.4	2439.4	2444.0	2416.2	2430.1	2425.5
32.5°	2282.6	2287.1	2268.7	2264.2	2278.1	2254.8	2264.2	2264.2
35°	2088.9	2093.5	2079.6	2079.6	2093.5	2079.6	2079.6	2075.0
37.5°	1895.2	1904.3	1895.2	1899.8	1909.1	1895.2	1904.3	1899.8
40°	1738.4	1747.8	1733.9	1742.9	1752.3	1738.4	1752.3	1742.9
42.5°	1595.5	1609.4	1600.0	1609.4	1618.4	1609.4	1618.4	1604.8
45°	1489.4	1498.8	1493.9	1498.8	1507.8	1503.3	1507.8	1503.3
47.5°	1387.9	1406.3	1397.2	1406.3	1420.2	1411.1	1420.2	1406.3
50°	1295.7	1309.6	1305.1	1314.2	1318.7	1314.2	1323.5	1309.6
52.5°	1175.8	1189.7	1185.1	1185.1	1194.2	1185.1	1194.2	1185.1
55°	1019.2	1023.8	1023.8	1028.3	1023.8	1019.2	1023.8	1014.4
57.5°	866.9	876.0	862.4	876.0	871.5	866.9	866.9	857.6
60°	769.9	783.8	774.8	783.8	779.3	779.3	779.3	774.8
62.5°	691.7	701.0	691.7	696.2	696.2	696.2	691.7	687.1
65°	604.0	617.9	608.6	613.4	608.6	604.0	608.6	604.0
67.5°	516.4	521.0	521.0	516.4	516.4	516.4	516.4	507.3
70°	419.7	424.2	419.7	428.8	424.2	419.7	424.2	414.9
72.5°	327.3	332.1	327.3	332.1	327.3	327.3	327.3	327.3
75°	244.5	249.0	249.0	249.0	249.0	249.0	239.9	249.0
77.5°	175.3	175.3	175.3	179.8	175.3	175.3	175.3	175.3
80°	120.0	120.0	120.0	124.5	120.0	124.5	120.0	124.5
82.5°	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
85°	41.4	46.2	46.2	41.4	41.4	41.4	41.4	41.4
87.5°	9.4	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



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













(END OF REPORT)