

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: P880604

Luminaire Tested: **LD4C70D010 EU4709035 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: P880604
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 EU4709035 4LBDWNH
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBDWN TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

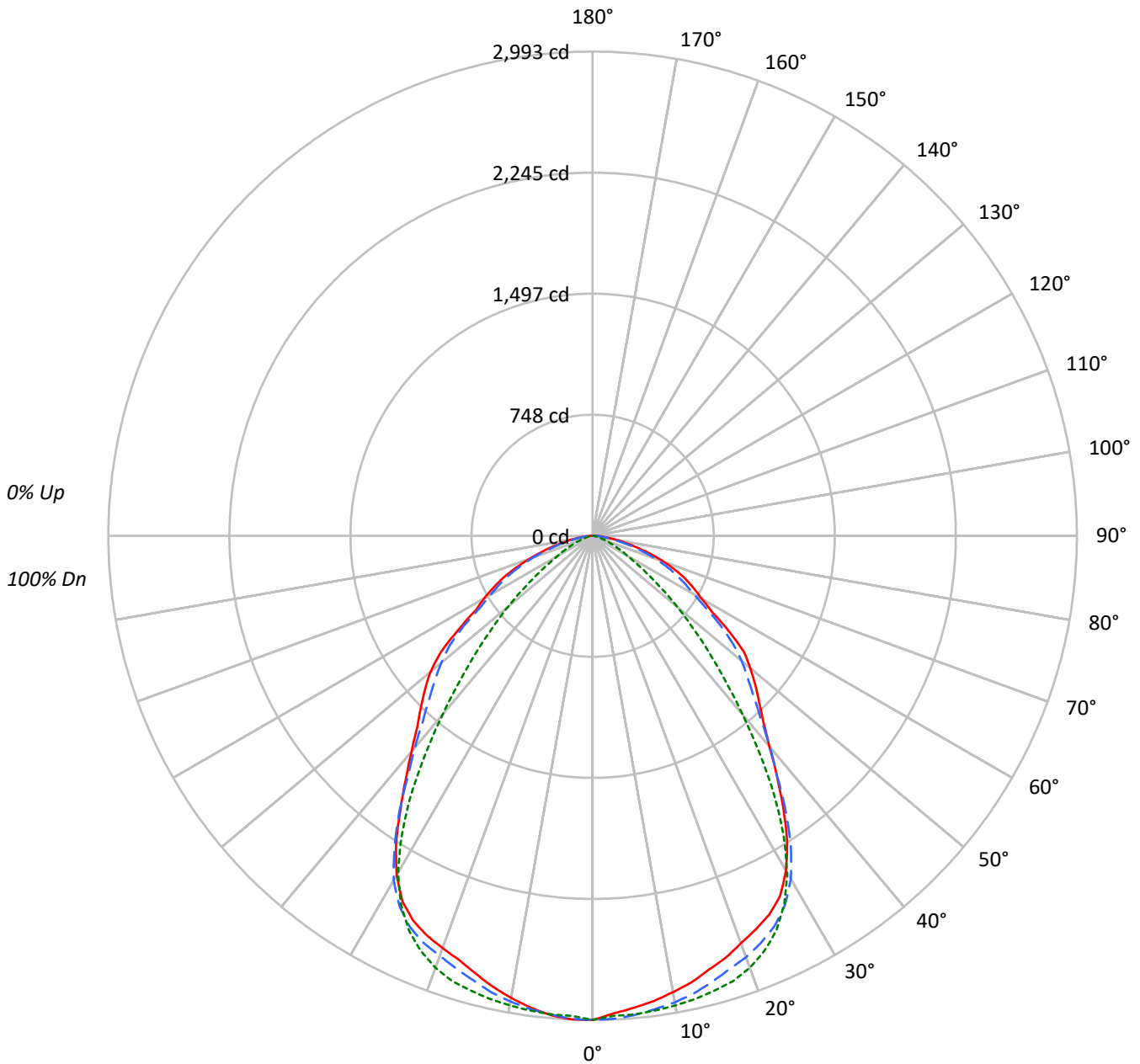
Lumens per Lamp: N/A
Luminaire Lumens: 6091.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	367676	367676	367676
5°	361151	366256	366811
10°	357280	367634	361871
15°	353135	370102	356048
20°	350325	371426	354548
25°	350149	364504	355747
30°	339000	340972	343582
35°	307992	293504	310751
40°	272475	231115	279115
45°	252776	175982	260803
50°	242902	130272	249936
55°	219929	89766	216952
60°	191209	61083	190079
65°	184708	44215	175348
70°	167028	29814	148816
75°	137654	19604	118003
80°	110792	13018	87940
85°	91059	6343	58216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.5	4.6
10°-20°	807.8	13.3
20°-30°	1220.4	20.0
30°-40°	1277.2	21.0
40°-50°	1034.4	17.0
50°-60°	752.4	12.4
60°-70°	464.0	7.6
70°-80°	209.7	3.4
80°-90°	42.6	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°	2310.7	37.9
0°-40°	3587.9	58.9
0°-60°	5374.7	88.2
0°-90°	6091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6091.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2993	2993	2993	2993	2993	
5°	2928	2974	2970	2970	2974	278
15°	2776	2855	2910	2846	2799	785
25°	2583	2661	2689	2671	2624	1184
35°	2054	2081	1957	2081	2072	1280
45°	1455	1409	1013	1428	1501	1131
55°	1027	962	419	972	1013	916
65°	635	571	152	562	603	622
75°	290	249	41	216	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°	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8
2.5°	2956.0	2956.0	2983.8	3015.8	2988.3	2960.5	2979.0	2969.9	3002.2	3002.2	2988.3
5°	2928.5	2937.6	2960.5	2988.3	2965.4	2937.6	2960.5	2951.5	2983.8	2983.8	2974.4
7.5°	2900.8	2905.3	2933.1	2965.4	2942.1	2914.7	2933.1	2928.5	2956.0	2960.5	2951.5
10°	2864.0	2868.5	2896.3	2928.5	2905.3	2882.4	2900.8	2896.3	2933.1	2933.1	2928.5
12.5°	2827.2	2831.7	2859.5	2886.9	2864.0	2841.0	2859.5	2859.5	2896.3	2900.8	2896.3
15°	2776.5	2785.5	2808.8	2836.2	2822.6	2794.9	2813.3	2813.3	2845.6	2854.6	2854.6
17.5°	2735.1	2739.7	2762.6	2790.4	2772.0	2748.7	2767.1	2767.1	2799.4	2808.8	2808.8
20°	2679.6	2689.0	2711.9	2739.7	2725.8	2707.4	2721.3	2721.3	2758.1	2767.1	2772.0
22.5°	2633.8	2642.8	2661.2	2698.3	2675.1	2661.2	2679.6	2675.1	2716.7	2721.3	2721.3
25°	2583.1	2592.4	2615.4	2638.3	2624.4	2610.8	2624.4	2624.4	2656.7	2661.2	2661.2
27.5°	2509.5	2514.0	2536.9	2560.1	2546.3	2527.9	2546.3	2541.7	2573.7	2578.6	2573.7
30°	2389.7	2399.0	2408.1	2440.4	2426.5	2412.6	2431.0	2422.0	2454.2	2454.2	2449.4
32.5°	2237.6	2237.6	2256.3	2279.2	2260.8	2251.5	2265.4	2269.9	2293.1	2293.1	2279.2
35°	2053.6	2062.9	2076.5	2090.4	2076.5	2067.4	2081.3	2076.5	2104.2	2094.9	2081.3
37.5°	1869.5	1874.0	1887.9	1906.3	1887.9	1874.0	1878.6	1874.0	1897.0	1897.0	1874.0
40°	1699.0	1708.4	1717.4	1735.8	1717.4	1708.4	1712.9	1699.0	1726.8	1717.4	1703.6
42.5°	1560.8	1565.4	1579.2	1588.6	1570.2	1565.4	1570.2	1560.8	1574.7	1565.4	1537.9
45°	1454.9	1454.9	1459.7	1473.3	1454.9	1450.4	1450.4	1441.1	1454.9	1436.5	1409.1
47.5°	1362.9	1367.4	1372.2	1381.3	1367.4	1353.8	1358.4	1340.0	1349.0	1335.1	1298.3
50°	1270.9	1279.9	1284.7	1293.8	1279.9	1270.9	1275.4	1257.0	1257.0	1234.1	1201.8
52.5°	1178.8	1183.4	1178.8	1187.9	1178.8	1165.0	1169.5	1151.1	1151.1	1123.6	1091.3
55°	1026.8	1031.3	1036.1	1045.2	1036.1	1022.2	1031.3	1017.7	1017.7	999.0	962.2
57.5°	874.7	879.5	884.1	888.6	888.6	879.5	884.1	874.7	870.2	856.3	828.8
60°	778.2	778.2	778.2	782.7	778.2	773.6	773.6	764.3	764.3	745.9	718.4
62.5°	704.5	709.1	709.1	713.6	709.1	704.5	700.0	690.7	686.1	667.7	644.5
65°	635.4	635.4	630.9	640.0	635.4	630.9	630.9	621.6	612.5	594.1	570.9
67.5°	552.5	557.0	552.5	557.0	557.0	552.5	547.9	538.6	534.1	520.2	492.7
70°	465.0	465.0	465.0	469.8	465.0	465.0	469.8	455.9	451.4	432.7	409.7
72.5°	377.5	382.3	382.3	377.5	382.3	372.9	372.9	372.9	368.4	350.0	326.8
75°	290.0	294.8	294.8	299.3	294.8	290.0	290.0	285.4	280.9	267.0	248.6
77.5°	216.3	216.3	220.9	220.9	220.9	216.3	216.3	207.3	207.3	197.9	179.5
80°	156.6	156.6	152.1	156.6	156.6	152.1	152.1	147.2	147.2	138.2	124.3
82.5°	101.4	105.9	105.9	105.9	105.9	101.4	101.4	101.4	96.6	92.0	83.0
85°	64.6	64.6	64.6	64.6	69.1	64.6	69.1	64.6	64.6	55.2	50.7
87.5°	27.8	27.8	27.8	32.3	32.3	27.8	27.8	27.8	27.8	27.8	22.9
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°	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8
2.5°	2988.3	2992.8	2979.0	2997.4	2983.8	2988.3	2992.8	2988.3	2969.9	2969.9	3020.6
5°	2969.9	2979.0	2965.4	2988.3	2979.0	2979.0	2988.3	2983.8	2965.4	2969.9	3015.8
7.5°	2951.5	2965.4	2956.0	2979.0	2965.4	2965.4	2974.4	2974.4	2956.0	2960.5	3002.2
10°	2923.7	2942.1	2937.6	2960.5	2947.0	2947.0	2960.5	2960.5	2942.1	2947.0	2988.3
12.5°	2900.8	2919.2	2914.7	2937.6	2928.5	2933.1	2937.6	2947.0	2923.7	2933.1	2969.9
15°	2864.0	2882.4	2882.4	2905.3	2896.3	2905.3	2914.7	2928.5	2909.9	2909.9	2947.0
17.5°	2822.6	2845.6	2845.6	2864.0	2864.0	2868.5	2886.9	2900.8	2882.4	2886.9	2919.2
20°	2776.5	2804.2	2804.2	2827.2	2822.6	2831.7	2845.6	2859.5	2841.0	2841.0	2877.9
22.5°	2730.3	2753.6	2758.1	2772.0	2772.0	2776.5	2790.4	2799.4	2776.5	2776.5	2813.3
25°	2666.1	2689.0	2693.5	2702.9	2693.5	2693.5	2702.9	2711.9	2689.0	2689.0	2721.3
27.5°	2578.6	2601.5	2601.5	2597.0	2587.6	2592.4	2587.6	2592.4	2569.2	2564.7	2597.0
30°	2449.4	2463.3	2463.3	2458.8	2444.9	2444.9	2431.0	2435.8	2403.6	2403.6	2431.0
32.5°	2274.7	2288.3	2279.2	2269.9	2251.5	2242.4	2233.1	2228.6	2196.3	2196.3	2228.6
35°	2067.4	2076.5	2062.9	2044.5	2021.3	2007.4	1993.8	1975.4	1952.2	1957.0	1975.4
37.5°	1855.6	1855.6	1837.2	1800.4	1782.0	1758.8	1735.8	1735.8	1699.0	1694.5	1708.4
40°	1676.1	1657.7	1625.4	1574.7	1542.4	1519.5	1487.2	1468.8	1441.1	1441.1	1464.3
42.5°	1515.0	1478.2	1436.5	1367.4	1335.1	1307.7	1266.3	1247.9	1215.7	1210.8	1224.7
45°	1372.2	1335.1	1275.4	1201.8	1160.4	1128.2	1068.1	1045.2	1017.7	1012.9	1022.2
47.5°	1257.0	1215.7	1142.0	1045.2	1003.8	962.2	902.5	870.2	847.2	833.4	847.2
50°	1155.6	1100.4	1022.2	920.9	865.7	828.8	755.2	722.9	690.7	681.6	686.1
52.5°	1045.2	990.0	907.0	801.1	750.4	695.2	626.1	580.2	552.5	538.6	552.5
55°	925.4	870.2	787.5	681.6	626.1	575.7	501.8	465.0	432.7	419.1	432.7
57.5°	796.6	745.9	672.2	566.3	515.7	469.8	400.7	363.9	331.6	322.2	331.6
60°	686.1	644.5	570.9	469.8	428.2	377.5	317.7	280.9	253.2	248.6	253.2
62.5°	612.5	566.3	497.2	400.7	359.1	317.7	262.5	225.7	202.5	197.9	202.5
65°	538.6	488.2	423.6	340.7	299.3	267.0	211.8	179.5	156.6	152.1	156.6
67.5°	455.9	409.7	354.5	280.9	248.6	216.3	170.5	138.2	119.8	115.3	119.8
70°	377.5	336.1	280.9	225.7	193.4	170.5	128.8	105.9	87.5	83.0	87.5
72.5°	299.3	262.5	216.3	170.5	152.1	128.8	101.4	78.2	64.6	59.7	64.6
75°	230.2	202.5	165.7	124.3	110.4	96.6	69.1	55.2	46.2	41.3	46.2
77.5°	161.1	142.7	115.3	92.0	78.2	69.1	50.7	36.8	32.3	27.8	32.3
80°	110.4	96.6	78.2	59.7	50.7	41.3	32.3	22.9	18.4	18.4	18.4
82.5°	73.6	59.7	46.2	36.8	32.3	27.8	18.4	13.9	13.9	9.3	9.3
85°	41.3	36.8	27.8	22.9	18.4	13.9	9.3	9.3	4.5	4.5	4.5
87.5°	18.4	13.9	9.3	9.3	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°	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8
2.5°	3006.7	2992.8	3011.2	2992.8	2983.8	2992.8	2983.8	3011.2	2988.3	2969.9	2988.3
5°	3002.2	2983.8	3002.2	2988.3	2974.4	2979.0	2969.9	2997.4	2969.9	2956.0	2965.4
7.5°	2992.8	2979.0	2988.3	2974.4	2960.5	2965.4	2956.0	2979.0	2951.5	2937.6	2947.0
10°	2979.0	2965.4	2969.9	2960.5	2947.0	2947.0	2937.6	2956.0	2923.7	2905.3	2914.7
12.5°	2960.5	2942.1	2951.5	2937.6	2919.2	2919.2	2909.9	2923.7	2891.5	2873.0	2877.9
15°	2937.6	2919.2	2919.2	2905.3	2886.9	2886.9	2868.5	2882.4	2845.6	2827.2	2827.2
17.5°	2909.9	2886.9	2886.9	2873.0	2850.1	2845.6	2831.7	2845.6	2804.2	2785.5	2785.5
20°	2868.5	2850.1	2845.6	2836.2	2813.3	2808.8	2790.4	2794.9	2762.6	2748.7	2744.2
22.5°	2813.3	2794.9	2799.4	2785.5	2767.1	2762.6	2744.2	2758.1	2725.8	2711.9	2716.7
25°	2716.7	2707.4	2716.7	2711.9	2698.3	2698.3	2689.0	2698.3	2670.6	2661.2	2666.1
27.5°	2606.0	2601.5	2606.0	2606.0	2597.0	2597.0	2597.0	2610.8	2583.1	2578.6	2578.6
30°	2444.9	2444.9	2449.4	2454.2	2454.2	2463.3	2458.8	2477.2	2458.8	2449.4	2458.8
32.5°	2233.1	2251.5	2265.4	2265.4	2265.4	2274.7	2283.8	2297.6	2279.2	2283.8	2283.8
35°	1993.8	2007.4	2016.7	2039.7	2026.1	2058.1	2067.4	2085.8	2081.3	2090.4	2085.8
37.5°	1726.8	1745.2	1763.6	1795.9	1791.1	1827.9	1846.3	1883.1	1874.0	1892.4	1901.5
40°	1478.2	1505.6	1533.4	1556.3	1574.7	1611.5	1648.3	1694.5	1708.4	1722.0	1726.8
42.5°	1238.6	1266.3	1312.2	1344.5	1372.2	1432.0	1482.7	1537.9	1551.8	1579.2	1588.6
45°	1045.2	1068.1	1123.6	1165.0	1187.9	1275.4	1335.1	1404.2	1427.5	1459.7	1473.3
47.5°	865.7	907.0	962.2	1012.9	1045.2	1137.2	1215.7	1289.3	1321.6	1358.4	1376.8
50°	709.1	755.2	828.8	874.7	920.9	1022.2	1109.7	1187.9	1220.2	1261.5	1279.9
52.5°	580.2	630.9	700.0	750.4	801.1	907.0	999.0	1072.9	1114.3	1142.0	1169.5
55°	455.9	511.1	580.2	635.4	676.8	792.0	870.2	943.8	971.6	994.5	1008.4
57.5°	354.5	395.9	465.0	511.1	561.8	662.9	741.3	796.6	819.5	847.2	856.3
60°	276.4	317.7	382.3	428.2	474.3	570.9	649.3	704.5	727.5	750.4	764.3
62.5°	220.9	262.5	322.2	363.9	405.2	492.7	561.8	617.0	644.5	667.7	681.6
65°	175.0	211.8	262.5	303.8	336.1	414.3	483.4	534.1	561.8	584.7	598.6
67.5°	138.2	170.5	216.3	244.1	276.4	340.7	400.7	446.6	469.8	497.2	511.1
70°	105.9	128.8	170.5	193.4	216.3	271.6	317.7	363.9	386.8	405.2	414.3
72.5°	78.2	96.6	128.8	147.2	161.1	207.3	244.1	276.4	294.8	313.2	322.2
75°	55.2	69.1	92.0	105.9	115.3	147.2	179.5	202.5	216.3	230.2	244.1
77.5°	36.8	46.2	59.7	69.1	78.2	101.4	119.8	138.2	152.1	165.7	170.5
80°	22.9	32.3	41.3	46.2	50.7	64.6	83.0	92.0	101.4	110.4	115.3
82.5°	13.9	18.4	22.9	27.8	32.3	41.3	50.7	59.7	64.6	73.6	78.2
85°	4.5	9.3	9.3	13.9	13.9	22.9	27.8	32.3	36.8	41.3	46.2
87.5°	0.0	0.0	4.5	4.5	4.5	4.5	9.3	9.3	9.3	9.3	9.3
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: P880604

CATALOG NUMBER: LD4C70D010 EU4709035 4LBDWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8
2.5°	3006.7	2992.8	2983.8	2979.0	3011.2	2969.9	2988.3	2992.8
5°	2988.3	2974.4	2965.4	2960.5	2988.3	2951.5	2965.4	2974.4
7.5°	2960.5	2951.5	2937.6	2933.1	2960.5	2919.2	2937.6	2942.1
10°	2928.5	2914.7	2905.3	2900.8	2923.7	2882.4	2900.8	2900.8
12.5°	2886.9	2877.9	2859.5	2859.5	2877.9	2841.0	2854.6	2854.6
15°	2831.7	2822.6	2804.2	2804.2	2822.6	2785.5	2799.4	2799.4
17.5°	2785.5	2776.5	2762.6	2758.1	2776.5	2739.7	2753.6	2748.7
20°	2748.7	2739.7	2721.3	2721.3	2735.1	2698.3	2711.9	2711.9
22.5°	2716.7	2711.9	2693.5	2693.5	2711.9	2675.1	2684.5	2675.1
25°	2666.1	2661.2	2642.8	2647.6	2656.7	2619.9	2633.8	2624.4
27.5°	2583.1	2583.1	2564.7	2560.1	2573.7	2541.7	2550.8	2546.3
30°	2454.2	2458.8	2435.8	2435.8	2440.4	2412.6	2426.5	2422.0
32.5°	2279.2	2283.8	2265.4	2260.8	2274.7	2251.5	2260.8	2260.8
35°	2085.8	2090.4	2076.5	2076.5	2090.4	2076.5	2076.5	2072.0
37.5°	1892.4	1901.5	1892.4	1897.0	1906.3	1892.4	1901.5	1897.0
40°	1735.8	1745.2	1731.3	1740.4	1749.7	1735.8	1749.7	1740.4
42.5°	1593.1	1607.0	1597.6	1607.0	1616.1	1607.0	1616.1	1602.5
45°	1487.2	1496.6	1491.7	1496.6	1505.6	1501.1	1505.6	1501.1
47.5°	1385.8	1404.2	1395.2	1404.2	1418.1	1409.1	1418.1	1404.2
50°	1293.8	1307.7	1303.2	1312.2	1316.7	1312.2	1321.6	1307.7
52.5°	1174.0	1187.9	1183.4	1183.4	1192.4	1183.4	1192.4	1183.4
55°	1017.7	1022.2	1022.2	1026.8	1022.2	1017.7	1022.2	1012.9
57.5°	865.7	874.7	861.1	874.7	870.2	865.7	865.7	856.3
60°	768.8	782.7	773.6	782.7	778.2	778.2	778.2	773.6
62.5°	690.7	700.0	690.7	695.2	695.2	695.2	690.7	686.1
65°	603.2	617.0	607.7	612.5	607.7	603.2	607.7	603.2
67.5°	515.7	520.2	520.2	515.7	515.7	515.7	515.7	506.6
70°	419.1	423.6	419.1	428.2	423.6	419.1	423.6	414.3
72.5°	326.8	331.6	326.8	331.6	326.8	326.8	326.8	326.8
75°	244.1	248.6	248.6	248.6	248.6	248.6	239.6	248.6
77.5°	175.0	175.0	175.0	179.5	175.0	175.0	175.0	175.0
80°	119.8	119.8	119.8	124.3	119.8	124.3	119.8	124.3
82.5°	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
85°	41.3	46.2	46.2	41.3	41.3	41.3	41.3	41.3
87.5°	9.3	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)