

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: P879480

Luminaire Tested: **LD4C70D010 EU4709030 4LBDWWH**

Issue Date: 10/1/2024

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: P879480  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/1/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C70D010 EU4709030 4LBLDWWH  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBLDWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

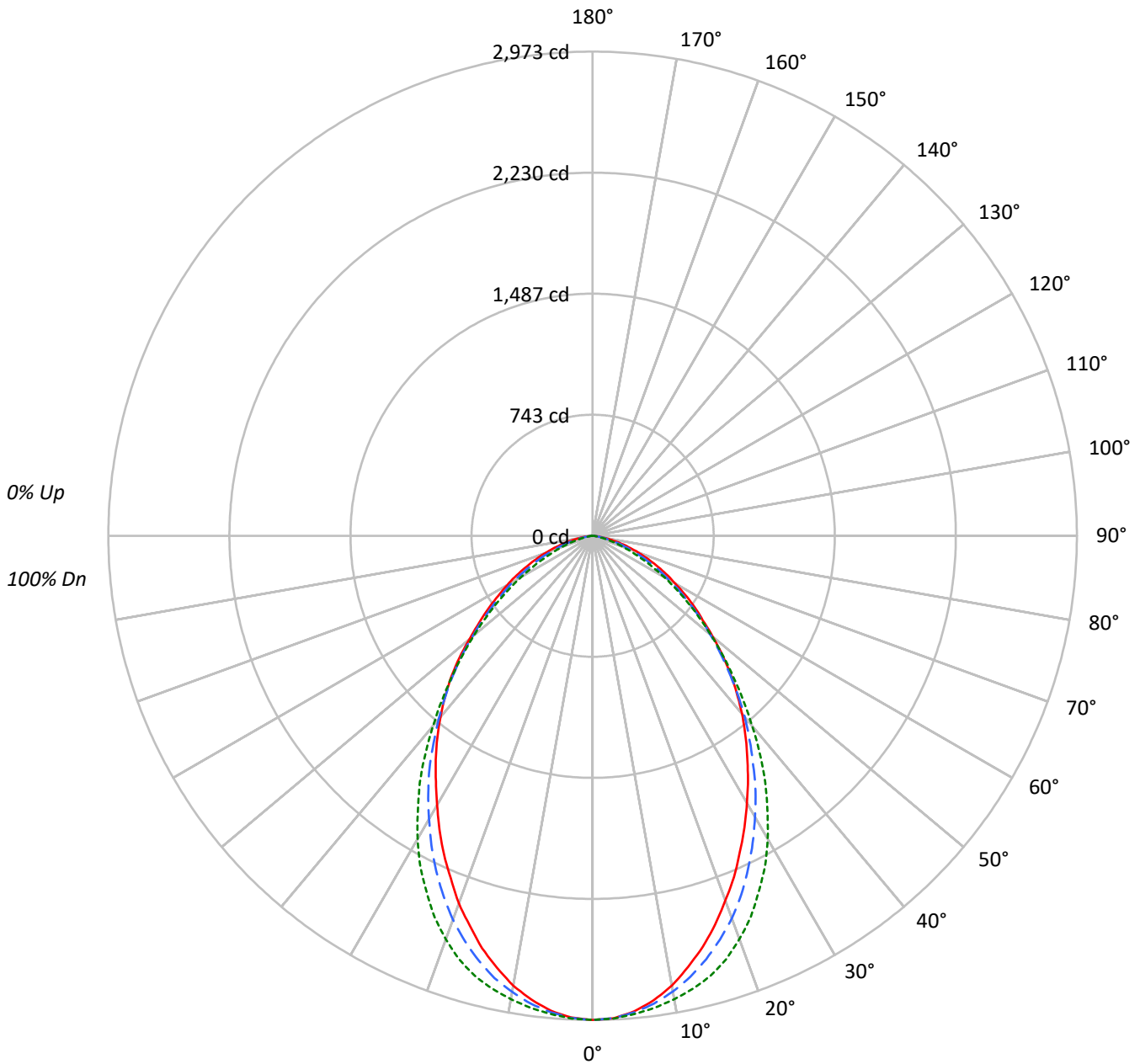
Lumens per Lamp: N/A  
Luminaire Lumens: 5318.0 lumens  
Efficiency: N/A  
Efficacy: 68.2 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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								
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77								
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67								
4	88	77	70	64	86	76	69	63	74	68	63	71	66	62	69	65	61	59								
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52								
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32								

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

	0°	90°	180°
0°	365268	365268	365268
5°	361545	363568	361138
10°	349795	360411	349920
15°	332328	355794	333434
20°	311483	344599	314046
25°	290099	326956	292756
30°	268738	304983	270752
35°	247926	277246	251690
40°	228693	244281	232895
45°	207151	211703	213424
50°	183653	181340	188240
55°	163704	152716	167453
60°	143272	123959	148628
65°	125377	95843	129825
70°	105497	70188	110993
75°	82403	45616	87054
80°	54052	23913	59499
85°	18466	10713	24668



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.5	5.2
10°-20°	758.4	14.3
20°-30°	1043.0	19.6
30°-40°	1088.1	20.5
40°-50°	930.9	17.5
50°-60°	665.9	12.5
60°-70°	386.4	7.3
70°-80°	149.0	2.8
80°-90°	19.0	0.4
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°	2078.9	39.1
0°-40°	3167.0	59.6
0°-60°	4763.7	89.6
0°-90°	5318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5318.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2973	2973	2973	2973	2973	
5°	2932	2937	2948	2937	2928	276
15°	2613	2692	2797	2701	2622	732
25°	2140	2258	2412	2272	2160	984
35°	1653	1719	1849	1746	1678	1035
45°	1192	1182	1218	1212	1228	919
55°	764	726	713	746	782	684
65°	431	381	330	394	447	430
75°	174	130	96	138	183	187
85°	13	10	8	11	18	26
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°	2973.2	2973.2	2973.2	2973.2	2973.2	2973.2	2973.2	2973.2	2973.2	2973.2	2973.2
2.5°	2965.6	2963.4	2964.5	2964.5	2964.5	2963.4	2965.6	2965.6	2964.5	2964.5	2964.5
5°	2931.7	2929.5	2930.6	2931.7	2931.7	2931.7	2932.8	2933.9	2935.0	2936.1	2937.2
7.5°	2877.1	2873.8	2877.1	2881.5	2881.5	2882.6	2883.7	2884.8	2888.0	2893.5	2896.8
10°	2804.0	2804.0	2805.0	2808.3	2813.8	2812.7	2816.0	2821.4	2828.0	2835.6	2841.1
12.5°	2711.1	2713.3	2716.6	2719.9	2725.3	2728.6	2734.1	2740.6	2751.5	2762.5	2774.5
15°	2612.9	2614.0	2615.1	2622.7	2628.2	2635.8	2640.2	2653.3	2663.1	2678.4	2691.5
17.5°	2502.6	2501.5	2504.8	2511.3	2524.4	2527.7	2533.2	2547.4	2561.6	2582.3	2599.8
20°	2382.5	2389.0	2393.4	2402.1	2409.8	2418.5	2422.9	2440.4	2456.7	2476.4	2499.3
22.5°	2268.9	2263.5	2271.1	2280.9	2287.5	2294.0	2301.7	2320.3	2337.7	2361.7	2384.7
25°	2140.1	2143.4	2148.8	2156.5	2165.2	2173.9	2182.7	2202.3	2212.2	2237.3	2258.0
27.5°	2017.8	2023.3	2025.4	2035.3	2042.9	2049.5	2053.8	2076.8	2085.5	2107.3	2128.1
30°	1894.4	1899.9	1899.9	1910.8	1916.3	1922.8	1933.7	1949.0	1962.1	1977.4	1992.7
32.5°	1775.4	1775.4	1779.8	1789.6	1795.1	1802.7	1806.0	1816.9	1830.0	1845.3	1861.7
35°	1653.1	1656.4	1660.8	1660.8	1670.6	1674.9	1679.3	1690.2	1699.0	1705.5	1718.6
37.5°	1540.6	1540.6	1537.4	1542.8	1549.4	1548.3	1554.8	1560.3	1565.8	1573.4	1584.3
40°	1426.0	1426.0	1421.6	1424.9	1429.3	1428.2	1426.0	1431.5	1435.8	1441.3	1452.2
42.5°	1309.2	1307.0	1305.9	1305.9	1308.1	1305.9	1308.1	1309.2	1309.2	1309.2	1315.7
45°	1192.3	1197.8	1191.2	1189.1	1185.8	1182.5	1181.4	1182.5	1186.9	1181.4	1182.5
47.5°	1077.7	1079.9	1075.5	1072.2	1069.0	1066.8	1069.0	1062.4	1064.6	1065.7	1061.3
50°	960.9	956.5	956.5	953.2	954.3	953.2	951.0	948.8	948.8	943.4	940.1
52.5°	852.8	854.9	857.1	849.5	850.6	845.1	846.2	840.8	840.8	834.2	836.4
55°	764.3	761.0	761.0	757.8	756.7	751.2	750.1	746.8	739.2	734.8	726.1
57.5°	672.6	671.5	667.1	668.2	661.7	660.6	658.4	652.9	647.5	642.0	632.2
60°	583.1	584.2	584.2	582.0	578.7	573.2	574.3	566.7	559.0	549.2	540.5
62.5°	508.8	505.5	504.5	502.3	495.7	495.7	490.3	484.8	477.2	467.3	459.7
65°	431.3	432.4	429.1	425.8	419.3	418.2	413.8	409.5	401.8	392.0	381.1
67.5°	361.4	359.2	358.1	354.9	348.3	347.2	343.9	334.1	327.6	317.7	309.0
70°	293.7	291.5	292.6	287.2	280.6	277.3	276.2	268.6	258.8	251.1	242.4
72.5°	230.4	230.4	229.3	223.8	220.6	218.4	214.0	205.3	199.8	191.1	184.5
75°	173.6	172.5	170.3	167.1	162.7	160.5	158.3	152.9	145.2	135.4	129.9
77.5°	120.1	121.2	119.0	117.9	112.5	109.2	108.1	104.8	98.3	91.7	86.3
80°	76.4	75.3	74.2	72.1	71.0	69.9	66.6	64.4	57.9	54.6	51.3
82.5°	41.5	39.3	39.3	38.2	36.0	34.9	33.8	31.7	30.6	28.4	26.2
85°	13.1	14.2	13.1	13.1	13.1	12.0	12.0	12.0	10.9	10.9	9.8
87.5°	1.1	2.2	1.1	1.1	2.2	1.1	1.1	2.2	1.1	1.1	2.2
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°	2973.2	2973.2	2973.2	2973.2	2973.2	2973.2	2973.2	2973.2	2973.2	2973.2	2973.2
2.5°	2964.5	2965.6	2965.6	2966.6	2966.6	2966.6	2966.6	2966.6	2966.6	2966.6	2966.6
5°	2940.4	2940.4	2942.6	2944.8	2944.8	2944.8	2945.9	2948.1	2948.1	2948.1	2947.0
7.5°	2901.1	2905.5	2909.9	2914.2	2915.3	2916.4	2918.6	2923.0	2923.0	2923.0	2923.0
10°	2849.8	2859.6	2865.1	2871.7	2874.9	2877.1	2883.7	2884.8	2888.0	2889.1	2888.0
12.5°	2784.3	2797.4	2809.4	2820.3	2824.7	2829.1	2835.6	2842.2	2845.4	2848.7	2847.6
15°	2711.1	2725.3	2743.9	2755.9	2764.6	2771.2	2781.0	2789.8	2795.2	2797.4	2797.4
17.5°	2622.7	2640.2	2659.8	2679.5	2684.9	2695.9	2706.8	2718.8	2725.3	2726.4	2725.3
20°	2524.4	2544.1	2560.5	2580.1	2592.1	2597.6	2612.9	2628.2	2634.7	2635.8	2634.7
22.5°	2407.6	2426.2	2448.0	2468.7	2478.6	2488.4	2504.8	2520.1	2528.8	2535.4	2528.8
25°	2277.7	2303.9	2324.6	2342.1	2356.3	2366.1	2386.9	2398.9	2413.1	2412.0	2413.1
27.5°	2149.9	2171.8	2194.7	2215.4	2224.2	2235.1	2251.5	2271.1	2283.1	2290.8	2289.7
30°	2018.9	2036.4	2056.0	2074.6	2088.8	2097.5	2121.5	2130.3	2145.6	2149.9	2146.6
32.5°	1880.2	1892.2	1911.9	1937.0	1942.5	1951.2	1966.5	1988.3	1993.8	1996.0	1997.1
35°	1732.8	1755.7	1772.1	1787.4	1791.8	1799.4	1816.9	1833.3	1838.7	1848.6	1844.2
37.5°	1596.3	1609.4	1617.1	1632.4	1645.5	1652.0	1660.8	1671.7	1682.6	1687.0	1685.9
40°	1459.8	1466.4	1473.0	1489.3	1490.4	1490.4	1503.5	1518.8	1518.8	1523.2	1523.2
42.5°	1320.1	1321.2	1329.9	1338.6	1340.8	1343.0	1356.1	1358.3	1364.9	1368.1	1372.5
45°	1184.7	1191.2	1196.7	1197.8	1203.3	1204.3	1207.6	1210.9	1220.7	1218.5	1220.7
47.5°	1061.3	1064.6	1067.9	1067.9	1071.1	1070.0	1075.5	1072.2	1078.8	1081.0	1084.2
50°	940.1	945.6	942.3	944.5	943.4	946.7	944.5	944.5	944.5	948.8	952.1
52.5°	828.7	829.8	826.6	827.6	827.6	825.5	827.6	826.6	825.5	825.5	826.6
55°	726.1	721.7	719.6	715.2	709.7	716.3	713.0	710.8	715.2	713.0	715.2
57.5°	626.7	621.3	616.9	614.7	607.1	611.5	607.1	604.9	604.9	604.9	610.4
60°	532.8	527.4	521.9	515.4	514.3	512.1	509.9	504.5	505.5	504.5	506.6
62.5°	450.9	440.0	432.4	426.9	425.8	422.6	419.3	413.8	414.9	414.9	416.0
65°	375.6	363.6	352.7	345.0	345.0	339.6	334.1	334.1	327.6	329.7	330.8
67.5°	300.3	290.4	279.5	274.1	270.8	266.4	263.1	261.0	257.7	257.7	259.9
70°	232.6	222.7	217.3	208.5	207.5	204.2	199.8	196.5	195.4	195.4	194.4
72.5°	175.8	167.1	160.5	155.0	151.8	148.5	144.1	143.0	140.9	140.9	143.0
75°	122.3	116.8	111.4	105.9	103.7	102.6	99.4	97.2	97.2	96.1	97.2
77.5°	81.9	76.4	71.0	68.8	66.6	64.4	63.3	62.2	59.0	59.0	59.0
80°	47.0	44.8	42.6	39.3	39.3	38.2	36.0	34.9	33.8	33.8	33.8
82.5°	24.0	22.9	20.7	19.7	19.7	19.7	18.6	18.6	17.5	17.5	17.5
85°	9.8	8.7	7.6	7.6	7.6	7.6	7.6	7.6	8.7	7.6	8.7
87.5°	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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°	2973.2	2973.2	2973.2	2973.2	2973.2	2973.2	2973.2	2973.2	2973.2	2973.2	2973.2
2.5°	2966.6	2965.6	2965.6	2965.6	2965.6	2965.6	2964.5	2964.5	2963.4	2963.4	2963.4
5°	2948.1	2947.0	2945.9	2944.8	2943.7	2942.6	2941.5	2940.4	2937.2	2936.1	2933.9
7.5°	2921.9	2919.7	2916.4	2915.3	2913.1	2909.9	2905.5	2903.3	2899.0	2893.5	2891.3
10°	2886.9	2882.6	2879.3	2873.8	2872.7	2868.4	2857.5	2852.0	2844.4	2837.8	2830.2
12.5°	2844.4	2840.0	2832.3	2824.7	2820.3	2810.5	2800.7	2791.9	2782.1	2767.9	2757.0
15°	2791.9	2785.4	2770.1	2767.9	2761.4	2746.1	2733.0	2716.6	2701.3	2686.0	2672.9
17.5°	2722.1	2707.9	2700.2	2690.4	2682.8	2663.1	2648.9	2630.3	2609.6	2592.1	2573.6
20°	2630.3	2615.1	2602.0	2596.5	2586.7	2569.2	2551.7	2528.8	2508.1	2486.2	2469.8
22.5°	2521.2	2511.3	2491.7	2485.1	2473.1	2455.6	2434.9	2413.1	2393.4	2369.4	2347.6
25°	2404.3	2390.1	2374.8	2361.7	2353.0	2336.6	2310.4	2294.0	2272.2	2246.0	2229.6
27.5°	2279.9	2263.5	2241.6	2232.9	2225.3	2203.4	2181.6	2160.8	2143.4	2120.4	2106.2
30°	2135.7	2123.7	2109.5	2098.6	2087.7	2070.2	2050.6	2026.5	2008.0	1997.1	1977.4
32.5°	1989.4	1979.6	1961.0	1955.6	1943.6	1929.4	1915.2	1897.7	1878.0	1861.7	1846.4
35°	1833.3	1823.4	1810.3	1800.5	1796.1	1786.3	1771.0	1755.7	1745.9	1727.4	1719.7
37.5°	1677.1	1673.9	1660.8	1650.9	1647.7	1635.6	1628.0	1617.1	1602.9	1598.5	1589.8
40°	1516.6	1514.4	1506.8	1505.7	1499.2	1495.9	1485.0	1476.2	1469.7	1466.4	1460.9
42.5°	1369.2	1367.0	1360.5	1361.6	1355.0	1352.8	1351.8	1344.1	1338.6	1332.1	1333.2
45°	1224.0	1221.8	1217.5	1215.3	1218.5	1217.5	1215.3	1212.0	1212.0	1213.1	1209.8
47.5°	1084.2	1086.4	1082.1	1084.2	1084.2	1081.0	1081.0	1085.3	1086.4	1088.6	1090.8
50°	952.1	958.7	956.5	959.8	960.9	961.9	958.7	964.1	963.0	972.9	970.7
52.5°	832.0	833.1	837.5	838.6	839.7	840.8	846.2	850.6	851.7	856.0	863.7
55°	716.3	717.4	726.1	726.1	731.6	732.7	740.3	742.5	745.8	757.8	760.0
57.5°	607.1	613.6	618.0	620.2	623.5	628.9	633.3	643.1	648.6	656.2	663.9
60°	508.8	516.5	521.9	524.1	528.5	535.0	540.5	551.4	561.2	570.0	575.4
62.5°	418.2	424.7	429.1	436.8	436.8	442.2	455.3	461.9	472.8	480.4	490.3
65°	337.4	341.8	349.4	349.4	353.8	362.5	373.4	383.3	394.2	405.1	414.9
67.5°	264.2	267.5	271.9	276.2	278.4	289.3	298.1	312.3	322.1	329.7	341.8
70°	199.8	202.0	207.5	211.8	215.1	222.7	232.6	242.4	252.2	261.0	273.0
72.5°	143.0	147.4	152.9	156.1	158.3	163.8	173.6	183.4	192.2	200.9	207.5
75°	98.3	101.5	103.7	107.0	110.3	114.6	121.2	127.8	137.6	146.3	154.0
77.5°	61.1	64.4	67.7	68.8	69.9	74.2	78.6	85.2	91.7	98.3	103.7
80°	36.0	37.1	38.2	39.3	41.5	44.8	47.0	51.3	55.7	60.1	65.5
82.5°	18.6	19.7	20.7	20.7	20.7	21.8	25.1	27.3	28.4	30.6	33.8
85°	7.6	7.6	7.6	8.7	8.7	9.8	9.8	10.9	10.9	12.0	13.1
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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: P879480

CATALOG NUMBER: LD4C70D010 EU4709030 4LBDWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2973.2	2973.2	2973.2	2973.2	2973.2	2973.2	2973.2	2973.2
2.5°	2962.3	2962.3	2962.3	2961.2	2962.3	2962.3	2962.3	2961.2
5°	2933.9	2931.7	2931.7	2930.6	2929.5	2929.5	2930.6	2928.4
7.5°	2886.9	2883.7	2881.5	2881.5	2880.4	2879.3	2879.3	2873.8
10°	2825.8	2819.2	2819.2	2817.1	2808.3	2807.2	2805.0	2805.0
12.5°	2749.4	2741.7	2737.4	2731.9	2726.4	2722.1	2721.0	2716.6
15°	2658.7	2648.9	2641.3	2639.1	2630.3	2623.8	2623.8	2621.6
17.5°	2560.5	2545.2	2539.7	2534.3	2522.3	2521.2	2519.0	2509.1
20°	2449.1	2434.9	2427.3	2421.8	2414.2	2403.2	2401.1	2402.1
22.5°	2332.3	2312.6	2306.1	2300.6	2293.0	2283.1	2283.1	2275.5
25°	2211.1	2193.6	2187.0	2180.5	2168.5	2164.1	2158.7	2159.7
27.5°	2087.7	2071.3	2065.8	2053.8	2046.2	2040.7	2035.3	2035.3
30°	1958.8	1950.1	1941.4	1940.3	1925.0	1918.4	1913.0	1908.6
32.5°	1834.4	1823.4	1819.1	1814.7	1807.1	1798.3	1797.2	1789.6
35°	1712.1	1701.2	1695.7	1691.3	1682.6	1679.3	1676.0	1678.2
37.5°	1583.2	1581.0	1577.8	1572.3	1566.9	1565.8	1561.4	1566.9
40°	1456.6	1455.5	1451.1	1452.2	1452.2	1450.0	1452.2	1452.2
42.5°	1334.3	1334.3	1329.9	1332.1	1333.2	1335.4	1338.6	1340.8
45°	1215.3	1214.2	1215.3	1217.5	1215.3	1220.7	1225.1	1228.4
47.5°	1093.0	1094.1	1098.4	1099.5	1101.7	1109.4	1109.4	1109.4
50°	976.1	981.6	979.4	986.0	984.9	989.2	984.9	984.9
52.5°	864.8	870.2	871.3	872.4	879.0	880.1	880.1	879.0
55°	765.4	773.1	769.8	775.2	778.5	780.7	784.0	781.8
57.5°	673.7	677.0	680.2	681.3	685.7	687.9	690.1	687.9
60°	583.1	589.6	595.1	596.2	598.4	600.5	601.6	604.9
62.5°	497.9	508.8	511.0	512.1	517.6	520.8	523.0	525.2
65°	422.6	430.2	435.7	438.9	443.3	443.3	446.6	446.6
67.5°	349.4	357.0	360.3	362.5	369.1	370.1	375.6	375.6
70°	282.8	288.3	290.4	293.7	300.3	304.6	306.8	309.0
72.5°	218.4	224.9	228.2	232.6	236.9	240.2	241.3	244.6
75°	159.4	169.2	170.3	174.7	178.0	182.3	184.5	183.4
77.5°	111.4	114.6	119.0	121.2	124.5	127.8	131.0	131.0
80°	68.8	73.2	74.2	75.3	79.7	81.9	84.1	84.1
82.5°	36.0	38.2	40.4	41.5	43.7	43.7	44.8	45.9
85°	14.2	15.3	15.3	15.3	16.4	17.5	17.5	17.5
87.5°	2.2	3.3	2.2	2.2	3.3	3.3	3.3	3.3
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)