

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: P880592

Luminaire Tested: **LD4C60D010 EU4609027 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: P880592  
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: LD4C60D010 EU4609027 4LBDWNH  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBDWN TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

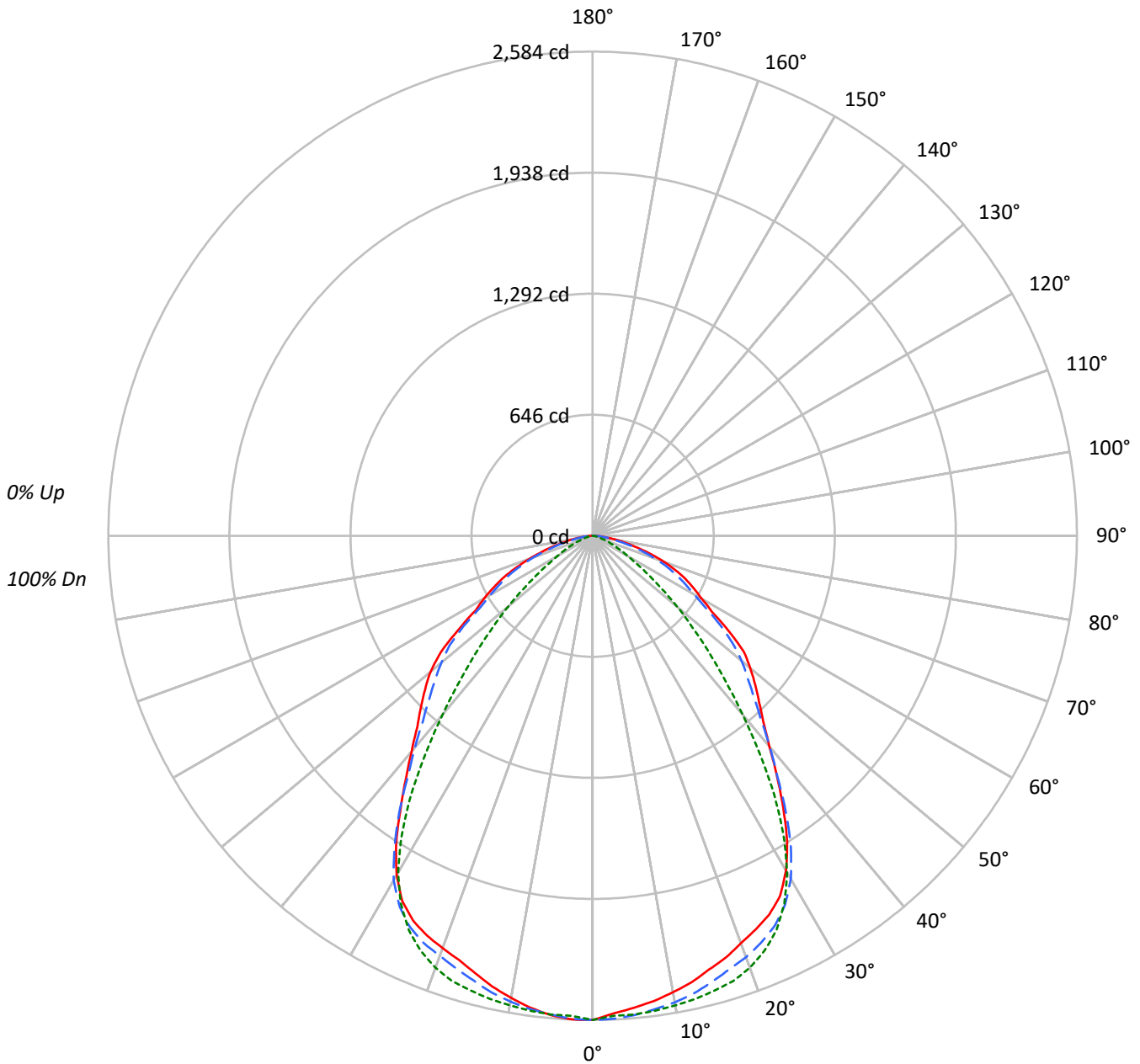
Lumens per Lamp: N/A  
Luminaire Lumens: 5259.0 lumens  
Efficiency: N/A  
Efficacy: 73.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 72  
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°	317453	317453	317453
5°	311822	316224	316705
10°	308479	317411	312446
15°	304893	319545	307412
20°	302475	320700	306123
25°	302312	314715	307151
30°	292698	294386	296641
35°	265908	253415	268293
40°	235252	199537	240978
45°	218254	151937	225168
50°	209723	112478	215800
55°	189878	77493	187308
60°	165091	52753	164108
65°	159476	38168	151395
70°	144219	25719	128486
75°	118857	16946	101912
80°	95652	11249	75913
85°	78514	5497	50322



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.9	4.6
10°-20°	697.5	13.3
20°-30°	1053.7	20.0
30°-40°	1102.7	21.0
40°-50°	893.1	17.0
50°-60°	649.6	12.4
60°-70°	400.6	7.6
70°-80°	181.0	3.4
80°-90°	36.8	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°	1995.1	37.9
0°-40°	3097.8	58.9
0°-60°	4640.5	88.2
0°-90°	5259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5259.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2584	2584	2584	2584	2584	
5°	2528	2568	2564	2564	2568	240
15°	2397	2465	2512	2457	2417	678
25°	2230	2298	2322	2306	2266	1022
35°	1773	1797	1690	1797	1789	1105
45°	1256	1217	874	1232	1296	976
55°	886	831	362	839	874	791
65°	549	493	131	485	521	537
75°	250	215	36	187	215	272
85°	56	44	4	32	36	64
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°	2584.0	2584.0	2584.0	2584.0	2584.0	2584.0	2584.0	2584.0	2584.0	2584.0	2584.0
2.5°	2552.2	2552.2	2576.2	2603.8	2580.1	2556.2	2572.0	2564.2	2592.1	2592.1	2580.1
5°	2528.5	2536.3	2556.2	2580.1	2560.3	2536.3	2556.2	2548.3	2576.2	2576.2	2568.1
7.5°	2504.6	2508.5	2532.4	2560.3	2540.3	2516.5	2532.4	2528.5	2552.2	2556.2	2548.3
10°	2472.8	2476.7	2500.7	2528.5	2508.5	2488.7	2504.6	2500.7	2532.4	2532.4	2528.5
12.5°	2441.0	2444.9	2468.9	2492.6	2472.8	2453.0	2468.9	2468.9	2500.7	2504.6	2500.7
15°	2397.2	2405.1	2425.1	2448.8	2437.1	2413.1	2429.0	2429.0	2456.9	2464.7	2464.7
17.5°	2361.5	2365.4	2385.3	2409.2	2393.3	2373.3	2389.2	2389.2	2417.0	2425.1	2425.1
20°	2313.6	2321.7	2341.5	2365.4	2353.5	2337.6	2349.6	2349.6	2381.3	2389.2	2393.3
22.5°	2274.0	2281.8	2297.7	2329.8	2309.7	2297.7	2313.6	2309.7	2345.6	2349.6	2349.6
25°	2230.2	2238.3	2258.1	2277.9	2265.9	2254.2	2265.9	2265.9	2293.8	2297.7	2297.7
27.5°	2166.7	2170.6	2190.4	2210.4	2198.5	2182.6	2198.5	2194.5	2222.2	2226.3	2222.2
30°	2063.3	2071.3	2079.2	2107.0	2095.0	2083.1	2099.0	2091.1	2119.0	2119.0	2114.8
32.5°	1932.0	1932.0	1948.1	1967.9	1952.0	1943.9	1955.9	1959.8	1979.9	1979.9	1967.9
35°	1773.0	1781.1	1792.9	1804.8	1792.9	1785.0	1797.0	1792.9	1816.8	1808.7	1797.0
37.5°	1614.1	1618.0	1630.0	1645.9	1630.0	1618.0	1622.0	1618.0	1637.8	1637.8	1618.0
40°	1466.9	1475.0	1482.8	1498.7	1482.8	1475.0	1478.9	1466.9	1490.9	1482.8	1470.9
42.5°	1347.6	1351.5	1363.5	1371.6	1355.7	1351.5	1355.7	1347.6	1359.6	1351.5	1327.8
45°	1256.2	1256.2	1260.4	1272.1	1256.2	1252.3	1252.3	1244.2	1256.2	1240.3	1216.6
47.5°	1176.7	1180.6	1184.8	1192.6	1180.6	1168.9	1172.8	1156.9	1164.8	1152.8	1121.0
50°	1097.3	1105.1	1109.3	1117.1	1105.1	1097.3	1101.2	1085.3	1085.3	1065.5	1037.6
52.5°	1017.8	1021.7	1017.8	1025.6	1017.8	1005.8	1009.7	993.9	993.9	970.1	942.3
55°	886.5	890.4	894.6	902.4	894.6	882.6	890.4	878.7	878.7	862.6	830.8
57.5°	755.2	759.4	763.3	767.2	767.2	759.4	763.3	755.2	751.3	739.3	715.6
60°	671.9	671.9	671.9	675.8	671.9	667.9	667.9	659.9	659.9	644.0	620.3
62.5°	608.3	612.2	612.2	616.1	612.2	608.3	604.4	596.3	592.4	576.5	556.5
65°	548.6	548.6	544.7	552.5	548.6	544.7	544.7	536.7	528.8	512.9	492.9
67.5°	477.0	480.9	477.0	480.9	480.9	477.0	473.1	465.0	461.1	449.1	425.4
70°	401.5	401.5	401.5	405.6	401.5	401.5	405.6	393.6	389.7	373.6	353.8
72.5°	325.9	330.1	330.1	325.9	330.1	322.0	322.0	322.0	318.1	302.2	282.1
75°	250.4	254.5	254.5	258.4	254.5	250.4	250.4	246.4	242.5	230.6	214.7
77.5°	186.8	186.8	190.7	190.7	190.7	186.8	186.8	179.0	179.0	170.9	155.0
80°	135.2	135.2	131.3	135.2	135.2	131.3	131.3	127.1	127.1	119.3	107.3
82.5°	87.5	91.4	91.4	91.4	91.4	87.5	87.5	87.5	83.4	79.5	71.6
85°	55.7	55.7	55.7	55.7	59.7	55.7	59.7	55.7	55.7	47.7	43.8
87.5°	24.0	24.0	24.0	27.9	27.9	24.0	24.0	24.0	24.0	24.0	19.8
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°	2584.0	2584.0	2584.0	2584.0	2584.0	2584.0	2584.0	2584.0	2584.0	2584.0	2584.0
2.5°	2580.1	2584.0	2572.0	2587.9	2576.2	2580.1	2584.0	2580.1	2564.2	2564.2	2608.0
5°	2564.2	2572.0	2560.3	2580.1	2572.0	2572.0	2580.1	2576.2	2560.3	2564.2	2603.8
7.5°	2548.3	2560.3	2552.2	2572.0	2560.3	2560.3	2568.1	2568.1	2552.2	2556.2	2592.1
10°	2524.4	2540.3	2536.3	2556.2	2544.4	2544.4	2556.2	2556.2	2540.3	2544.4	2580.1
12.5°	2504.6	2520.5	2516.5	2536.3	2528.5	2532.4	2536.3	2544.4	2524.4	2532.4	2564.2
15°	2472.8	2488.7	2488.7	2508.5	2500.7	2508.5	2516.5	2528.5	2512.4	2512.4	2544.4
17.5°	2437.1	2456.9	2456.9	2472.8	2472.8	2476.7	2492.6	2504.6	2488.7	2492.6	2520.5
20°	2397.2	2421.2	2421.2	2441.0	2437.1	2444.9	2456.9	2468.9	2453.0	2453.0	2484.8
22.5°	2357.4	2377.4	2381.3	2393.3	2393.3	2397.2	2409.2	2417.0	2397.2	2397.2	2429.0
25°	2301.9	2321.7	2325.6	2333.7	2325.6	2325.6	2333.7	2341.5	2321.7	2321.7	2349.6
27.5°	2226.3	2246.1	2246.1	2242.2	2234.2	2238.3	2234.2	2238.3	2218.3	2214.4	2242.2
30°	2114.8	2126.8	2126.8	2122.9	2110.9	2110.9	2099.0	2103.1	2075.2	2075.2	2099.0
32.5°	1964.0	1975.7	1967.9	1959.8	1943.9	1936.1	1928.1	1924.1	1896.3	1896.3	1924.1
35°	1785.0	1792.9	1781.1	1765.2	1745.2	1733.2	1721.5	1705.6	1685.5	1689.7	1705.6
37.5°	1602.1	1602.1	1586.3	1554.5	1538.6	1518.5	1498.7	1498.7	1466.9	1463.0	1475.0
40°	1447.1	1431.2	1403.4	1359.6	1331.7	1311.9	1284.1	1268.2	1244.2	1244.2	1264.3
42.5°	1308.0	1276.2	1240.3	1180.6	1152.8	1129.1	1093.4	1077.5	1049.6	1045.4	1057.4
45°	1184.8	1152.8	1101.2	1037.6	1001.9	974.1	922.2	902.4	878.7	874.5	882.6
47.5°	1085.3	1049.6	986.0	902.4	866.7	830.8	779.2	751.3	731.5	719.5	731.5
50°	997.8	950.1	882.6	795.1	747.4	715.6	652.1	624.2	596.3	588.5	592.4
52.5°	902.4	854.7	783.1	691.7	647.9	600.2	540.6	501.0	477.0	465.0	477.0
55°	799.0	751.3	679.9	588.5	540.6	497.0	433.2	401.5	373.6	361.8	373.6
57.5°	687.8	644.0	580.4	489.0	445.2	405.6	346.0	314.2	286.3	278.2	286.3
60°	592.4	556.5	492.9	405.6	369.7	325.9	274.3	242.5	218.6	214.7	218.6
62.5°	528.8	489.0	429.3	346.0	310.0	274.3	226.6	194.9	174.8	170.9	174.8
65°	465.0	421.5	365.8	294.1	258.4	230.6	182.9	155.0	135.2	131.3	135.2
67.5°	393.6	353.8	306.1	242.5	214.7	186.8	147.2	119.3	103.4	99.5	103.4
70°	325.9	290.2	242.5	194.9	167.0	147.2	111.2	91.4	75.5	71.6	75.5
72.5°	258.4	226.6	186.8	147.2	131.3	111.2	87.5	67.5	55.7	51.6	55.7
75°	198.8	174.8	143.0	107.3	95.4	83.4	59.7	47.7	39.9	35.7	39.9
77.5°	139.1	123.2	99.5	79.5	67.5	59.7	43.8	31.8	27.9	24.0	27.9
80°	95.4	83.4	67.5	51.6	43.8	35.7	27.9	19.8	15.9	15.9	15.9
82.5°	63.6	51.6	39.9	31.8	27.9	24.0	15.9	12.0	12.0	8.1	8.1
85°	35.7	31.8	24.0	19.8	15.9	12.0	8.1	8.1	3.9	3.9	3.9
87.5°	15.9	12.0	8.1	8.1	3.9	3.9	3.9	3.9	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°	2584.0	2584.0	2584.0	2584.0	2584.0	2584.0	2584.0	2584.0	2584.0	2584.0	2584.0
2.5°	2596.0	2584.0	2599.9	2584.0	2576.2	2584.0	2576.2	2599.9	2580.1	2564.2	2580.1
5°	2592.1	2576.2	2592.1	2580.1	2568.1	2572.0	2564.2	2587.9	2564.2	2552.2	2560.3
7.5°	2584.0	2572.0	2580.1	2568.1	2556.2	2560.3	2552.2	2572.0	2548.3	2536.3	2544.4
10°	2572.0	2560.3	2564.2	2556.2	2544.4	2544.4	2536.3	2552.2	2524.4	2508.5	2516.5
12.5°	2556.2	2540.3	2548.3	2536.3	2520.5	2520.5	2512.4	2524.4	2496.5	2480.6	2484.8
15°	2536.3	2520.5	2520.5	2508.5	2492.6	2492.6	2476.7	2488.7	2456.9	2441.0	2441.0
17.5°	2512.4	2492.6	2492.6	2480.6	2460.8	2456.9	2444.9	2456.9	2421.2	2405.1	2405.1
20°	2476.7	2460.8	2456.9	2448.8	2429.0	2425.1	2409.2	2413.1	2385.3	2373.3	2369.4
22.5°	2429.0	2413.1	2417.0	2405.1	2389.2	2385.3	2369.4	2381.3	2353.5	2341.5	2345.6
25°	2345.6	2337.6	2345.6	2341.5	2329.8	2329.8	2321.7	2329.8	2305.8	2297.7	2301.9
27.5°	2250.0	2246.1	2250.0	2250.0	2242.2	2242.2	2242.2	2254.2	2230.2	2226.3	2226.3
30°	2110.9	2110.9	2114.8	2119.0	2119.0	2126.8	2122.9	2138.8	2122.9	2114.8	2122.9
32.5°	1928.1	1943.9	1955.9	1955.9	1955.9	1964.0	1971.8	1983.8	1967.9	1971.8	1971.8
35°	1721.5	1733.2	1741.3	1761.1	1749.3	1777.0	1785.0	1800.9	1797.0	1804.8	1800.9
37.5°	1490.9	1506.8	1522.7	1550.6	1546.4	1578.2	1594.1	1625.9	1618.0	1633.9	1641.8
40°	1276.2	1300.0	1323.9	1343.7	1359.6	1391.4	1423.2	1463.0	1475.0	1486.7	1490.9
42.5°	1069.4	1093.4	1133.0	1160.8	1184.8	1236.4	1280.2	1327.8	1339.8	1363.5	1371.6
45°	902.4	922.2	970.1	1005.8	1025.6	1101.2	1152.8	1212.4	1232.5	1260.4	1272.1
47.5°	747.4	783.1	830.8	874.5	902.4	981.9	1049.6	1113.2	1141.0	1172.8	1188.7
50°	612.2	652.1	715.6	755.2	795.1	882.6	958.2	1025.6	1053.5	1089.2	1105.1
52.5°	501.0	544.7	604.4	647.9	691.7	783.1	862.6	926.4	962.1	986.0	1009.7
55°	393.6	441.3	501.0	548.6	584.3	683.8	751.3	814.9	838.8	858.7	870.6
57.5°	306.1	341.8	401.5	441.3	485.1	572.4	640.1	687.8	707.6	731.5	739.3
60°	238.6	274.3	330.1	369.7	409.5	492.9	560.6	608.3	628.1	647.9	659.9
62.5°	190.7	226.6	278.2	314.2	349.9	425.4	485.1	532.7	556.5	576.5	588.5
65°	151.1	182.9	226.6	262.3	290.2	357.7	417.3	461.1	485.1	504.9	516.9
67.5°	119.3	147.2	186.8	210.8	238.6	294.1	346.0	385.6	405.6	429.3	441.3
70°	91.4	111.2	147.2	167.0	186.8	234.5	274.3	314.2	334.0	349.9	357.7
72.5°	67.5	83.4	111.2	127.1	139.1	179.0	210.8	238.6	254.5	270.4	278.2
75°	47.7	59.7	79.5	91.4	99.5	127.1	155.0	174.8	186.8	198.8	210.8
77.5°	31.8	39.9	51.6	59.7	67.5	87.5	103.4	119.3	131.3	143.0	147.2
80°	19.8	27.9	35.7	39.9	43.8	55.7	71.6	79.5	87.5	95.4	99.5
82.5°	12.0	15.9	19.8	24.0	27.9	35.7	43.8	51.6	55.7	63.6	67.5
85°	3.9	8.1	8.1	12.0	12.0	19.8	24.0	27.9	31.8	35.7	39.9
87.5°	0.0	0.0	3.9	3.9	3.9	3.9	8.1	8.1	8.1	8.1	8.1
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: P880592

CATALOG NUMBER: LD4C60D010 EU4609027 4LBDWNH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2584.0	2584.0	2584.0	2584.0	2584.0	2584.0	2584.0	2584.0
2.5°	2596.0	2584.0	2576.2	2572.0	2599.9	2564.2	2580.1	2584.0
5°	2580.1	2568.1	2560.3	2556.2	2580.1	2548.3	2560.3	2568.1
7.5°	2556.2	2548.3	2536.3	2532.4	2556.2	2520.5	2536.3	2540.3
10°	2528.5	2516.5	2508.5	2504.6	2524.4	2488.7	2504.6	2504.6
12.5°	2492.6	2484.8	2468.9	2468.9	2484.8	2453.0	2464.7	2464.7
15°	2444.9	2437.1	2421.2	2421.2	2437.1	2405.1	2417.0	2417.0
17.5°	2405.1	2397.2	2385.3	2381.3	2397.2	2365.4	2377.4	2373.3
20°	2373.3	2365.4	2349.6	2349.6	2361.5	2329.8	2341.5	2341.5
22.5°	2345.6	2341.5	2325.6	2325.6	2341.5	2309.7	2317.8	2309.7
25°	2301.9	2297.7	2281.8	2286.0	2293.8	2262.0	2274.0	2265.9
27.5°	2230.2	2230.2	2214.4	2210.4	2222.2	2194.5	2202.4	2198.5
30°	2119.0	2122.9	2103.1	2103.1	2107.0	2083.1	2095.0	2091.1
32.5°	1967.9	1971.8	1955.9	1952.0	1964.0	1943.9	1952.0	1952.0
35°	1800.9	1804.8	1792.9	1792.9	1804.8	1792.9	1792.9	1788.9
37.5°	1633.9	1641.8	1633.9	1637.8	1645.9	1633.9	1641.8	1637.8
40°	1498.7	1506.8	1494.8	1502.6	1510.7	1498.7	1510.7	1502.6
42.5°	1375.5	1387.5	1379.4	1387.5	1395.3	1387.5	1395.3	1383.6
45°	1284.1	1292.1	1288.0	1292.1	1300.0	1296.0	1300.0	1296.0
47.5°	1196.5	1212.4	1204.6	1212.4	1224.4	1216.6	1224.4	1212.4
50°	1117.1	1129.1	1125.1	1133.0	1136.9	1133.0	1141.0	1129.1
52.5°	1013.7	1025.6	1021.7	1021.7	1029.6	1021.7	1029.6	1021.7
55°	878.7	882.6	882.6	886.5	882.6	878.7	882.6	874.5
57.5°	747.4	755.2	743.5	755.2	751.3	747.4	747.4	739.3
60°	663.8	675.8	667.9	675.8	671.9	671.9	671.9	667.9
62.5°	596.3	604.4	596.3	600.2	600.2	600.2	596.3	592.4
65°	520.8	532.7	524.7	528.8	524.7	520.8	524.7	520.8
67.5°	445.2	449.1	449.1	445.2	445.2	445.2	445.2	437.4
70°	361.8	365.8	361.8	369.7	365.8	361.8	365.8	357.7
72.5°	282.1	286.3	282.1	286.3	282.1	282.1	282.1	282.1
75°	210.8	214.7	214.7	214.7	214.7	214.7	206.8	214.7
77.5°	151.1	151.1	151.1	155.0	151.1	151.1	151.1	151.1
80°	103.4	103.4	103.4	107.3	103.4	107.3	103.4	107.3
82.5°	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
85°	35.7	39.9	39.9	35.7	35.7	35.7	35.7	35.7
87.5°	8.1	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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)