

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: P879460

Luminaire Tested: **LD4C60D010 EU4609030 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: P879460  
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: LD4C60D010 EU4609030 4LBLDWWH  
Description: 4 INCH 6000 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**

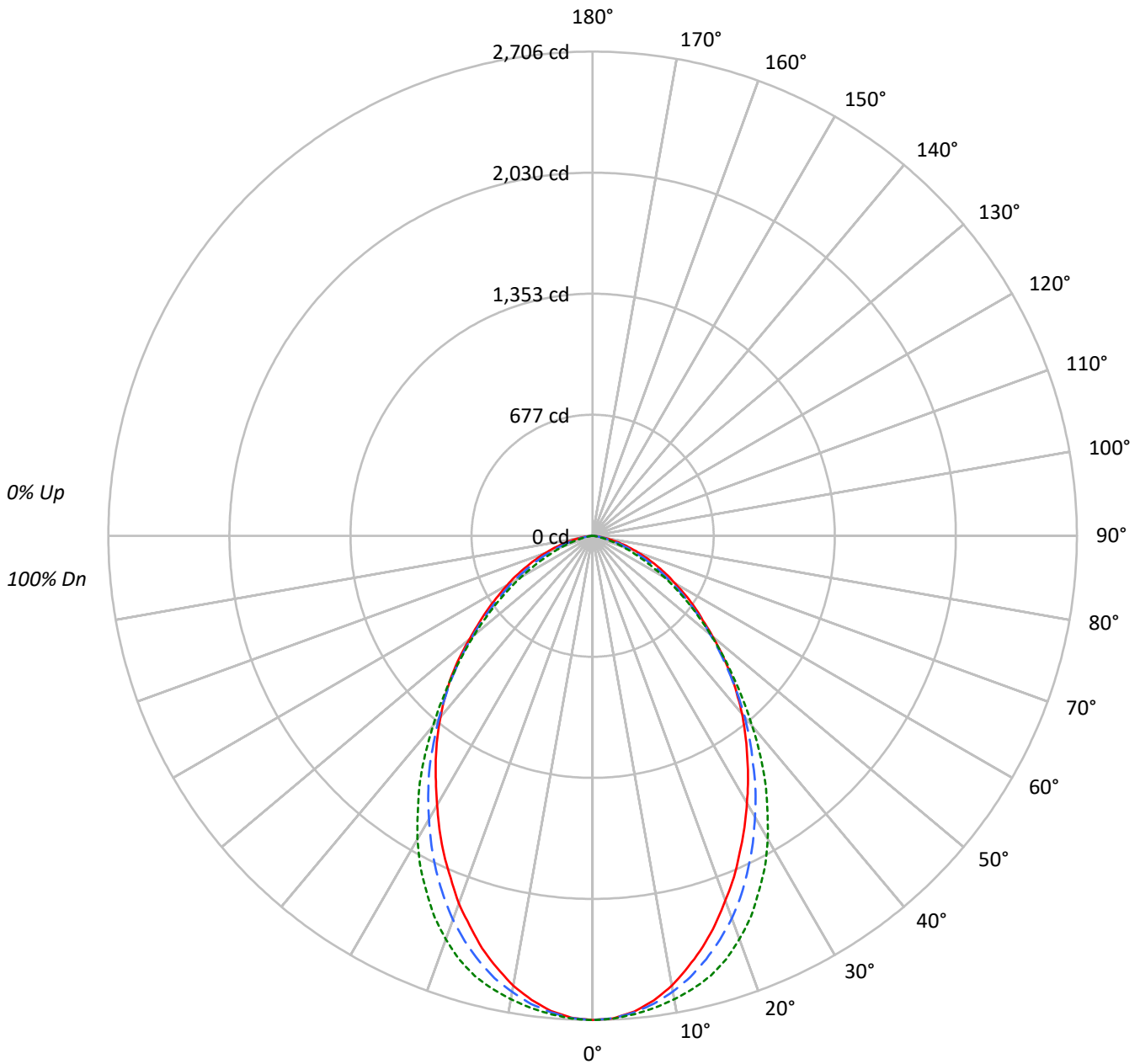
Lumens per Lamp: N/A  
Luminaire Lumens: 4841.0 lumens  
Efficiency: N/A  
Efficacy: 67.2 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 72  
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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CATALOG NUMBER: LD4C60D010 EU4609030 4LBLDWWH

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

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

	0°	90°	180°
0°	332503	332503	332503
5°	329111	330961	328754
10°	318421	328089	318533
15°	302515	323882	303532
20°	283544	313693	285885
25°	264072	297622	266499
30°	244636	277632	246466
35°	225684	252380	229119
40°	208181	222374	211998
45°	188579	192714	194277
50°	167178	165076	171345
55°	149032	139008	152438
60°	130421	112829	135286
65°	114127	87267	118168
70°	96050	63902	101043
75°	74998	41534	79270
80°	49241	21791	54123
85°	16774	9867	22412



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.7	5.2
10°-20°	690.3	14.3
20°-30°	949.4	19.6
30°-40°	990.5	20.5
40°-50°	847.4	17.5
50°-60°	606.1	12.5
60°-70°	351.7	7.3
70°-80°	135.6	2.8
80°-90°	17.3	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°	1892.4	39.1
0°-40°	2882.9	59.6
0°-60°	4336.4	89.6
0°-90°	4841.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4841.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2706	2706	2706	2706	2706	
5°	2669	2674	2684	2674	2666	251
15°	2378	2450	2546	2459	2386	667
25°	1948	2056	2196	2068	1966	896
35°	1505	1564	1683	1589	1528	943
45°	1085	1076	1109	1103	1118	837
55°	696	661	649	679	712	622
65°	393	347	300	359	406	391
75°	158	118	88	125	167	170
85°	12	9	7	10	16	23
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°	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2699.6	2697.6	2698.6	2698.6	2698.6	2697.6	2699.6	2699.6	2698.6	2698.6	2698.6
5°	2668.7	2666.8	2667.8	2668.7	2668.7	2668.7	2669.7	2670.7	2671.7	2672.7	2673.7
7.5°	2619.1	2616.1	2619.1	2623.0	2623.0	2624.0	2625.0	2626.0	2629.0	2634.0	2636.9
10°	2552.5	2552.5	2553.4	2556.4	2561.4	2560.4	2563.4	2568.4	2574.3	2581.3	2586.2
12.5°	2468.0	2470.0	2472.9	2475.9	2480.9	2483.9	2488.8	2494.8	2504.7	2514.7	2525.6
15°	2378.5	2379.5	2380.5	2387.5	2392.4	2399.4	2403.4	2415.3	2424.2	2438.2	2450.1
17.5°	2278.1	2277.1	2280.1	2286.1	2298.0	2301.0	2306.0	2318.9	2331.8	2350.7	2366.6
20°	2168.8	2174.8	2178.7	2186.7	2193.6	2201.6	2205.6	2221.5	2236.4	2254.3	2275.1
22.5°	2065.4	2060.5	2067.4	2076.4	2082.3	2088.3	2095.2	2112.1	2128.0	2149.9	2170.8
25°	1948.1	1951.1	1956.1	1963.0	1971.0	1978.9	1986.9	2004.8	2013.7	2036.6	2055.5
27.5°	1836.8	1841.8	1843.8	1852.7	1859.7	1865.6	1869.6	1890.5	1898.4	1918.3	1937.2
30°	1724.5	1729.5	1729.5	1739.4	1744.4	1750.3	1760.3	1774.2	1786.1	1800.0	1814.0
32.5°	1616.2	1616.2	1620.1	1629.1	1634.0	1641.0	1644.0	1653.9	1665.9	1679.8	1694.7
35°	1504.8	1507.8	1511.8	1511.8	1520.7	1524.7	1528.7	1538.6	1546.6	1552.5	1564.5
37.5°	1402.5	1402.5	1399.5	1404.4	1410.4	1409.4	1415.4	1420.4	1425.3	1432.3	1442.2
40°	1298.1	1298.1	1294.1	1297.1	1301.1	1300.1	1298.1	1303.1	1307.0	1312.0	1321.9
42.5°	1191.7	1189.8	1188.8	1188.8	1190.7	1188.8	1190.7	1191.7	1191.7	1191.7	1197.7
45°	1085.4	1090.4	1084.4	1082.4	1079.4	1076.4	1075.5	1076.4	1080.4	1075.5	1076.4
47.5°	981.0	983.0	979.0	976.1	973.1	971.1	973.1	967.1	969.1	970.1	966.1
50°	874.7	870.7	870.7	867.7	868.7	867.7	865.7	863.7	863.7	858.8	855.8
52.5°	776.3	778.3	780.2	773.3	774.3	769.3	770.3	765.3	765.3	759.4	761.4
55°	695.8	692.8	692.8	689.8	688.8	683.8	682.8	679.9	672.9	668.9	661.0
57.5°	612.3	611.3	607.3	608.3	602.3	601.3	599.3	594.4	589.4	584.4	575.5
60°	530.8	531.8	531.8	529.8	526.8	521.8	522.8	515.9	508.9	500.0	492.0
62.5°	463.2	460.2	459.2	457.2	451.3	451.3	446.3	441.3	434.4	425.4	418.5
65°	392.6	393.6	390.6	387.6	381.7	380.7	376.7	372.7	365.8	356.8	346.9
67.5°	329.0	327.0	326.0	323.0	317.1	316.1	313.1	304.1	298.2	289.2	281.3
70°	267.4	265.4	266.4	261.4	255.4	252.5	251.5	244.5	235.6	228.6	220.7
72.5°	209.7	209.7	208.7	203.8	200.8	198.8	194.8	186.9	181.9	173.9	168.0
75°	158.0	157.0	155.1	152.1	148.1	146.1	144.1	139.2	132.2	123.2	118.3
77.5°	109.3	110.3	108.3	107.3	102.4	99.4	98.4	95.4	89.5	83.5	78.5
80°	69.6	68.6	67.6	65.6	64.6	63.6	60.6	58.6	52.7	49.7	46.7
82.5°	37.8	35.8	35.8	34.8	32.8	31.8	30.8	28.8	27.8	25.8	23.9
85°	11.9	12.9	11.9	11.9	11.9	10.9	10.9	10.9	9.9	9.9	8.9
87.5°	1.0	2.0	1.0	1.0	2.0	1.0	1.0	2.0	1.0	1.0	2.0
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°	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2698.6	2699.6	2699.6	2700.6	2700.6	2700.6	2700.6	2700.6	2700.6	2700.6	2700.6
5°	2676.7	2676.7	2678.7	2680.7	2680.7	2680.7	2681.7	2683.7	2683.7	2683.7	2682.7
7.5°	2640.9	2644.9	2648.9	2652.8	2653.8	2654.8	2656.8	2660.8	2660.8	2660.8	2660.8
10°	2594.2	2603.1	2608.1	2614.1	2617.1	2619.1	2625.0	2626.0	2629.0	2630.0	2629.0
12.5°	2534.6	2546.5	2557.4	2567.4	2571.3	2575.3	2581.3	2587.2	2590.2	2593.2	2592.2
15°	2468.0	2480.9	2497.8	2508.7	2516.7	2522.6	2531.6	2539.5	2544.5	2546.5	2546.5
17.5°	2387.5	2403.4	2421.3	2439.1	2444.1	2454.1	2464.0	2474.9	2480.9	2481.9	2480.9
20°	2298.0	2315.9	2330.8	2348.7	2359.6	2364.6	2378.5	2392.4	2398.4	2399.4	2398.4
22.5°	2191.7	2208.5	2228.4	2247.3	2256.3	2265.2	2280.1	2294.0	2302.0	2307.9	2302.0
25°	2073.4	2097.2	2116.1	2132.0	2144.9	2153.9	2172.8	2183.7	2196.6	2195.6	2196.6
27.5°	1957.1	1977.0	1997.8	2016.7	2024.7	2034.6	2049.5	2067.4	2078.3	2085.3	2084.3
30°	1837.8	1853.7	1871.6	1888.5	1901.4	1909.4	1931.2	1939.2	1953.1	1957.1	1954.1
32.5°	1711.6	1722.5	1740.4	1763.3	1768.2	1776.2	1790.1	1810.0	1814.9	1816.9	1817.9
35°	1577.4	1598.3	1613.2	1627.1	1631.1	1638.0	1653.9	1668.8	1673.8	1682.8	1678.8
37.5°	1453.2	1465.1	1472.0	1486.0	1497.9	1503.8	1511.8	1521.7	1531.7	1535.6	1534.7
40°	1328.9	1334.9	1340.8	1355.7	1356.7	1356.7	1368.7	1382.6	1382.6	1386.6	1386.6
42.5°	1201.7	1202.7	1210.6	1218.6	1220.6	1222.6	1234.5	1236.5	1242.4	1245.4	1249.4
45°	1078.4	1084.4	1089.4	1090.4	1095.3	1096.3	1099.3	1102.3	1111.2	1109.2	1111.2
47.5°	966.1	969.1	972.1	972.1	975.1	974.1	979.0	976.1	982.0	984.0	987.0
50°	855.8	860.8	857.8	859.8	858.8	861.8	859.8	859.8	859.8	863.7	866.7
52.5°	754.4	755.4	752.4	753.4	753.4	751.4	753.4	752.4	751.4	751.4	752.4
55°	661.0	657.0	655.0	651.0	646.1	652.0	649.0	647.1	651.0	649.0	651.0
57.5°	570.5	565.6	561.6	559.6	552.6	556.6	552.6	550.6	550.6	550.6	555.6
60°	485.0	480.1	475.1	469.1	468.1	466.2	464.2	459.2	460.2	459.2	461.2
62.5°	410.5	400.6	393.6	388.6	387.6	384.7	381.7	376.7	377.7	377.7	378.7
65°	341.9	331.0	321.0	314.1	314.1	309.1	304.1	304.1	298.2	300.2	301.2
67.5°	273.3	264.4	254.5	249.5	246.5	242.5	239.5	237.6	234.6	234.6	236.6
70°	211.7	202.8	197.8	189.8	188.8	185.9	181.9	178.9	177.9	177.9	176.9
72.5°	160.0	152.1	146.1	141.1	138.2	135.2	131.2	130.2	128.2	128.2	130.2
75°	111.3	106.4	101.4	96.4	94.4	93.4	90.4	88.5	88.5	87.5	88.5
77.5°	74.5	69.6	64.6	62.6	60.6	58.6	57.6	56.7	53.7	53.7	53.7
80°	42.7	40.8	38.8	35.8	35.8	34.8	32.8	31.8	30.8	30.8	30.8
82.5°	21.9	20.9	18.9	17.9	17.9	17.9	16.9	16.9	15.9	15.9	15.9
85°	8.9	8.0	7.0	7.0	7.0	7.0	7.0	7.0	8.0	7.0	8.0
87.5°	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2700.6	2699.6	2699.6	2699.6	2699.6	2699.6	2698.6	2698.6	2697.6	2697.6	2697.6
5°	2683.7	2682.7	2681.7	2680.7	2679.7	2678.7	2677.7	2676.7	2673.7	2672.7	2670.7
7.5°	2659.8	2657.8	2654.8	2653.8	2651.9	2648.9	2644.9	2642.9	2638.9	2634.0	2632.0
10°	2628.0	2624.0	2621.0	2616.1	2615.1	2611.1	2601.2	2596.2	2589.2	2583.3	2576.3
12.5°	2589.2	2585.3	2578.3	2571.3	2567.4	2558.4	2549.5	2541.5	2532.6	2519.7	2509.7
15°	2541.5	2535.6	2521.6	2519.7	2513.7	2499.8	2487.8	2472.9	2459.0	2445.1	2433.2
17.5°	2477.9	2465.0	2458.0	2449.1	2442.1	2424.2	2411.3	2394.4	2375.5	2359.6	2342.7
20°	2394.4	2380.5	2368.6	2363.6	2354.7	2338.8	2322.9	2302.0	2283.1	2263.2	2248.3
22.5°	2295.0	2286.1	2268.2	2262.2	2251.3	2235.4	2216.5	2196.6	2178.7	2156.9	2137.0
25°	2188.7	2175.7	2161.8	2149.9	2142.0	2127.0	2103.2	2088.3	2068.4	2044.5	2029.6
27.5°	2075.4	2060.5	2040.6	2032.6	2025.7	2005.8	1985.9	1967.0	1951.1	1930.2	1917.3
30°	1944.2	1933.2	1920.3	1910.4	1900.4	1884.5	1866.6	1844.8	1827.9	1817.9	1800.0
32.5°	1811.0	1802.0	1785.1	1780.2	1769.2	1756.3	1743.4	1727.5	1709.6	1694.7	1680.8
35°	1668.8	1659.9	1648.0	1639.0	1635.0	1626.1	1612.2	1598.3	1589.3	1572.4	1565.5
37.5°	1526.7	1523.7	1511.8	1502.8	1499.9	1488.9	1482.0	1472.0	1459.1	1455.1	1447.2
40°	1380.6	1378.6	1371.6	1370.7	1364.7	1361.7	1351.8	1343.8	1337.9	1334.9	1329.9
42.5°	1246.4	1244.4	1238.5	1239.5	1233.5	1231.5	1230.5	1223.5	1218.6	1212.6	1213.6
45°	1114.2	1112.2	1108.3	1106.3	1109.2	1108.3	1106.3	1103.3	1103.3	1104.3	1101.3
47.5°	987.0	989.0	985.0	987.0	987.0	984.0	984.0	988.0	989.0	991.0	993.0
50°	866.7	872.7	870.7	873.7	874.7	875.7	872.7	877.7	876.7	885.6	883.6
52.5°	757.4	758.4	762.4	763.4	764.3	765.3	770.3	774.3	775.3	779.3	786.2
55°	652.0	653.0	661.0	661.0	665.9	666.9	673.9	675.9	678.9	689.8	691.8
57.5°	552.6	558.6	562.6	564.6	567.5	572.5	576.5	585.4	590.4	597.4	604.3
60°	463.2	470.1	475.1	477.1	481.1	487.0	492.0	501.9	510.9	518.8	523.8
62.5°	380.7	386.6	390.6	397.6	397.6	402.5	414.5	420.4	430.4	437.3	446.3
65°	307.1	311.1	318.1	318.1	322.0	330.0	339.9	348.9	358.8	368.8	377.7
67.5°	240.5	243.5	247.5	251.5	253.5	263.4	271.3	284.3	293.2	300.2	311.1
70°	181.9	183.9	188.8	192.8	195.8	202.8	211.7	220.7	229.6	237.6	248.5
72.5°	130.2	134.2	139.2	142.1	144.1	149.1	158.0	167.0	174.9	182.9	188.8
75°	89.5	92.4	94.4	97.4	100.4	104.4	110.3	116.3	125.2	133.2	140.1
77.5°	55.7	58.6	61.6	62.6	63.6	67.6	71.6	77.5	83.5	89.5	94.4
80°	32.8	33.8	34.8	35.8	37.8	40.8	42.7	46.7	50.7	54.7	59.6
82.5°	16.9	17.9	18.9	18.9	18.9	19.9	22.9	24.8	25.8	27.8	30.8
85°	7.0	7.0	7.0	8.0	8.0	8.9	8.9	9.9	9.9	10.9	11.9
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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: P879460

CATALOG NUMBER: LD4C60D010 EU4609030 4LBLDWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2696.6	2696.6	2696.6	2695.6	2696.6	2696.6	2696.6	2695.6
5°	2670.7	2668.7	2668.7	2667.8	2666.8	2666.8	2667.8	2665.8
7.5°	2628.0	2625.0	2623.0	2623.0	2622.0	2621.0	2621.0	2616.1
10°	2572.3	2566.4	2566.4	2564.4	2556.4	2555.4	2553.4	2553.4
12.5°	2502.8	2495.8	2491.8	2486.9	2481.9	2477.9	2476.9	2472.9
15°	2420.3	2411.3	2404.4	2402.4	2394.4	2388.5	2388.5	2386.5
17.5°	2330.8	2316.9	2311.9	2307.0	2296.0	2295.0	2293.0	2284.1
20°	2229.4	2216.5	2209.5	2204.6	2197.6	2187.7	2185.7	2186.7
22.5°	2123.1	2105.2	2099.2	2094.2	2087.3	2078.3	2078.3	2071.4
25°	2012.7	1996.8	1990.9	1984.9	1974.0	1970.0	1965.0	1966.0
27.5°	1900.4	1885.5	1880.5	1869.6	1862.7	1857.7	1852.7	1852.7
30°	1783.1	1775.2	1767.2	1766.2	1752.3	1746.4	1741.4	1737.4
32.5°	1669.8	1659.9	1655.9	1651.9	1645.0	1637.0	1636.0	1629.1
35°	1558.5	1548.6	1543.6	1539.6	1531.7	1528.7	1525.7	1527.7
37.5°	1441.2	1439.2	1436.3	1431.3	1426.3	1425.3	1421.3	1426.3
40°	1325.9	1324.9	1321.0	1321.9	1321.9	1320.0	1321.9	1321.9
42.5°	1214.6	1214.6	1210.6	1212.6	1213.6	1215.6	1218.6	1220.6
45°	1106.3	1105.3	1106.3	1108.3	1106.3	1111.2	1115.2	1118.2
47.5°	994.9	995.9	999.9	1000.9	1002.9	1009.9	1009.9	1009.9
50°	888.6	893.6	891.6	897.5	896.5	900.5	896.5	896.5
52.5°	787.2	792.2	793.2	794.2	800.1	801.1	801.1	800.1
55°	696.8	703.7	700.7	705.7	708.7	710.7	713.7	711.7
57.5°	613.3	616.2	619.2	620.2	624.2	626.2	628.2	626.2
60°	530.8	536.7	541.7	542.7	544.7	546.7	547.7	550.6
62.5°	453.2	463.2	465.2	466.2	471.1	474.1	476.1	478.1
65°	384.7	391.6	396.6	399.6	403.5	403.5	406.5	406.5
67.5°	318.1	325.0	328.0	330.0	336.0	336.9	341.9	341.9
70°	257.4	262.4	264.4	267.4	273.3	277.3	279.3	281.3
72.5°	198.8	204.8	207.7	211.7	215.7	218.7	219.7	222.6
75°	145.1	154.1	155.1	159.0	162.0	166.0	168.0	167.0
77.5°	101.4	104.4	108.3	110.3	113.3	116.3	119.3	119.3
80°	62.6	66.6	67.6	68.6	72.6	74.5	76.5	76.5
82.5°	32.8	34.8	36.8	37.8	39.8	39.8	40.8	41.7
85°	12.9	13.9	13.9	13.9	14.9	15.9	15.9	15.9
87.5°	2.0	3.0	2.0	2.0	3.0	3.0	3.0	3.0
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)