

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: P879472

Luminaire Tested: **LD4C65D010 EU4659035 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: P879472
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: LD4C65D010 EU4659035 4LBLDWWH
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBLDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

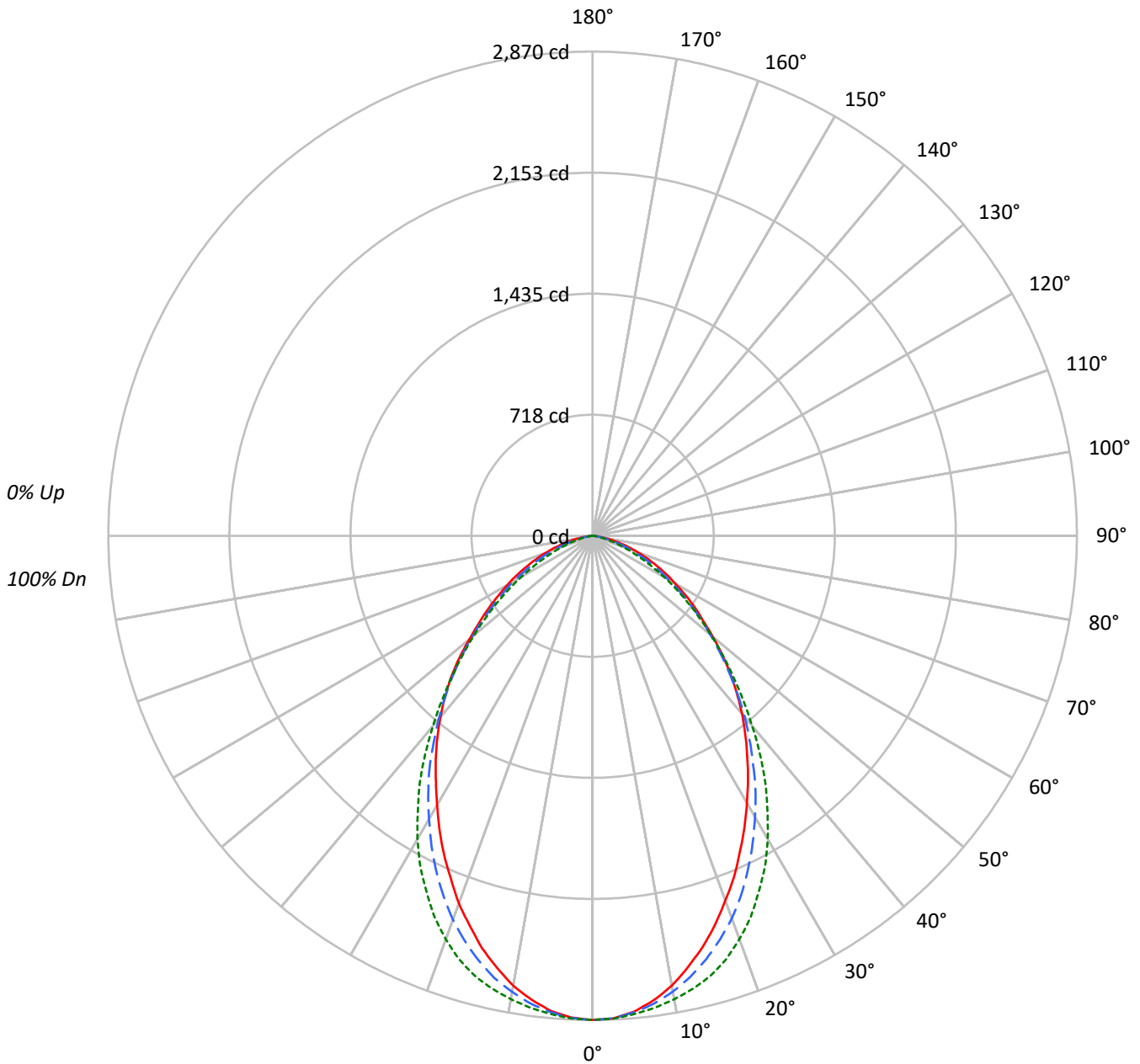
Lumens per Lamp: N/A
Luminaire Lumens: 5134.0 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
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	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°	352626	352626	352626
5°	349040	350989	348646
10°	337682	347949	337819
15°	320830	343482	321898
20°	300710	332676	303181
25°	280054	315637	282630
30°	259446	294428	261389
35°	239347	267648	242992
40°	220787	235830	224844
45°	199993	204389	206040
50°	177289	175071	181723
55°	158050	147426	161648
60°	138308	119659	143493
65°	121046	92529	125319
70°	101869	67781	107149
75°	79555	44049	84064
80°	52212	23135	57448
85°	17761	10431	23822



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.9	5.2
10°-20°	732.1	14.3
20°-30°	1006.9	19.6
30°-40°	1050.4	20.5
40°-50°	898.7	17.5
50°-60°	642.8	12.5
60°-70°	373.0	7.3
70°-80°	143.8	2.8
80°-90°	18.3	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°	2007.0	39.1
0°-40°	3057.4	59.6
0°-60°	4598.9	89.6
0°-90°	5134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5134.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2870	2870	2870	2870	2870	
5°	2830	2836	2846	2836	2827	266
15°	2522	2598	2701	2608	2531	707
25°	2066	2180	2328	2194	2085	950
35°	1596	1659	1785	1686	1620	1000
45°	1151	1142	1176	1170	1186	887
55°	738	701	688	720	755	660
65°	416	368	318	380	431	415
75°	168	125	93	133	177	180
85°	13	10	7	10	17	25
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°	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3
2.5°	2862.9	2860.8	2861.9	2861.9	2861.9	2860.8	2862.9	2862.9	2861.9	2861.9	2861.9
5°	2830.3	2828.2	2829.2	2830.3	2830.3	2830.3	2831.3	2832.4	2833.4	2834.5	2835.5
7.5°	2777.6	2774.4	2777.6	2781.8	2781.8	2782.8	2783.9	2784.9	2788.1	2793.4	2796.5
10°	2706.9	2706.9	2708.0	2711.2	2716.4	2715.4	2718.5	2723.8	2730.1	2737.5	2742.8
12.5°	2617.3	2619.5	2622.6	2625.8	2631.0	2634.2	2639.5	2645.8	2656.3	2666.9	2678.5
15°	2522.5	2523.5	2524.6	2532.0	2537.2	2544.6	2548.8	2561.5	2571.0	2585.7	2598.4
17.5°	2416.0	2415.0	2418.1	2424.4	2437.1	2440.3	2445.5	2459.2	2472.9	2493.0	2509.8
20°	2300.1	2306.4	2310.6	2319.0	2326.4	2334.8	2339.1	2355.9	2371.7	2390.7	2412.8
22.5°	2190.4	2185.2	2192.5	2202.0	2208.4	2214.7	2222.1	2240.0	2256.8	2280.0	2302.2
25°	2066.0	2069.2	2074.5	2081.9	2090.3	2098.7	2107.2	2126.1	2135.6	2159.9	2179.9
27.5°	1948.0	1953.3	1955.4	1964.9	1972.2	1978.6	1982.8	2004.9	2013.3	2034.4	2054.5
30°	1828.9	1834.1	1834.1	1844.7	1850.0	1856.3	1866.8	1881.6	1894.2	1909.0	1923.7
32.5°	1714.0	1714.0	1718.2	1727.7	1732.9	1740.3	1743.5	1754.0	1766.7	1781.4	1797.2
35°	1595.9	1599.1	1603.3	1603.3	1612.8	1617.0	1621.2	1631.8	1640.2	1646.5	1659.2
37.5°	1487.3	1487.3	1484.2	1489.5	1495.8	1494.7	1501.0	1506.3	1511.6	1519.0	1529.5
40°	1376.7	1376.7	1372.4	1375.6	1379.8	1378.8	1376.7	1381.9	1386.1	1391.4	1402.0
42.5°	1263.9	1261.8	1260.7	1260.7	1262.8	1260.7	1262.8	1263.9	1263.9	1263.9	1270.2
45°	1151.1	1156.4	1150.0	1147.9	1144.8	1141.6	1140.5	1141.6	1145.8	1140.5	1141.6
47.5°	1040.4	1042.5	1038.3	1035.1	1032.0	1029.9	1032.0	1025.6	1027.8	1028.8	1024.6
50°	927.6	923.4	923.4	920.2	921.3	920.2	918.1	916.0	916.0	910.7	907.6
52.5°	823.3	825.4	827.5	820.1	821.1	815.9	816.9	811.7	811.7	805.3	807.4
55°	737.9	734.7	734.7	731.5	730.5	725.2	724.2	721.0	713.6	709.4	701.0
57.5°	649.3	648.3	644.1	645.1	638.8	637.7	635.6	630.4	625.1	619.8	610.3
60°	562.9	563.9	563.9	561.8	558.7	553.4	554.5	547.1	539.7	530.2	521.8
62.5°	491.2	488.1	487.0	484.9	478.6	478.6	473.3	468.0	460.6	451.2	443.8
65°	416.4	417.4	414.3	411.1	404.8	403.7	399.5	395.3	387.9	378.4	367.9
67.5°	348.9	346.8	345.7	342.6	336.3	335.2	332.0	322.6	316.2	306.7	298.3
70°	283.6	281.4	282.5	277.2	270.9	267.7	266.7	259.3	249.8	242.4	234.0
72.5°	222.4	222.4	221.4	216.1	212.9	210.8	206.6	198.2	192.9	184.5	178.1
75°	167.6	166.5	164.4	161.3	157.1	155.0	152.8	147.6	140.2	130.7	125.4
77.5°	116.0	117.0	114.9	113.8	108.6	105.4	104.4	101.2	94.9	88.5	83.3
80°	73.8	72.7	71.7	69.6	68.5	67.5	64.3	62.2	55.9	52.7	49.5
82.5°	40.1	37.9	37.9	36.9	34.8	33.7	32.7	30.6	29.5	27.4	25.3
85°	12.6	13.7	12.6	12.6	12.6	11.6	11.6	11.6	10.5	10.5	9.5
87.5°	1.1	2.1	1.1	1.1	2.1	1.1	1.1	2.1	1.1	1.1	2.1
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°	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3
2.5°	2861.9	2862.9	2862.9	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0	2864.0
5°	2838.7	2838.7	2840.8	2842.9	2842.9	2842.9	2844.0	2846.1	2846.1	2846.1	2845.0
7.5°	2800.8	2805.0	2809.2	2813.4	2814.5	2815.5	2817.6	2821.8	2821.8	2821.8	2821.8
10°	2751.2	2760.7	2766.0	2772.3	2775.5	2777.6	2783.9	2784.9	2788.1	2789.2	2788.1
12.5°	2688.0	2700.6	2712.2	2722.8	2727.0	2731.2	2737.5	2743.8	2747.0	2750.2	2749.1
15°	2617.3	2631.0	2649.0	2660.6	2669.0	2675.3	2684.8	2693.2	2698.5	2700.6	2700.6
17.5°	2532.0	2548.8	2567.8	2586.8	2592.0	2602.6	2613.1	2624.7	2631.0	2632.1	2631.0
20°	2437.1	2456.1	2471.9	2490.9	2502.4	2507.7	2522.5	2537.2	2543.6	2544.6	2543.6
22.5°	2324.3	2342.2	2363.3	2383.3	2392.8	2402.3	2418.1	2432.9	2441.3	2447.6	2441.3
25°	2198.9	2224.2	2244.2	2261.1	2274.8	2284.2	2304.3	2315.9	2329.6	2328.5	2329.6
27.5°	2075.5	2096.6	2118.8	2138.8	2147.2	2157.8	2173.6	2192.5	2204.1	2211.5	2210.5
30°	1949.0	1965.9	1984.9	2002.8	2016.5	2024.9	2048.1	2056.6	2071.3	2075.5	2072.4
32.5°	1815.2	1826.8	1845.7	1870.0	1875.3	1883.7	1898.4	1919.5	1924.8	1926.9	1928.0
35°	1672.9	1695.0	1710.8	1725.6	1729.8	1737.2	1754.0	1769.8	1775.1	1784.6	1780.4
37.5°	1541.1	1553.8	1561.1	1575.9	1588.5	1594.9	1603.3	1613.8	1624.4	1628.6	1627.5
40°	1409.3	1415.7	1422.0	1437.8	1438.9	1438.9	1451.5	1466.3	1466.3	1470.5	1470.5
42.5°	1274.4	1275.5	1283.9	1292.3	1294.4	1296.5	1309.2	1311.3	1317.6	1320.8	1325.0
45°	1143.7	1150.0	1155.3	1156.4	1161.6	1162.7	1165.8	1169.0	1178.5	1176.4	1178.5
47.5°	1024.6	1027.8	1030.9	1030.9	1034.1	1033.0	1038.3	1035.1	1041.5	1043.6	1046.7
50°	907.6	912.9	909.7	911.8	910.7	913.9	911.8	911.8	911.8	916.0	919.2
52.5°	800.1	801.1	798.0	799.0	799.0	796.9	799.0	798.0	796.9	796.9	798.0
55°	701.0	696.8	694.7	690.4	685.2	691.5	688.3	686.2	690.4	688.3	690.4
57.5°	605.1	599.8	595.6	593.5	586.1	590.3	586.1	584.0	584.0	584.0	589.2
60°	514.4	509.1	503.9	497.5	496.5	494.4	492.3	487.0	488.1	487.0	489.1
62.5°	435.3	424.8	417.4	412.2	411.1	407.9	404.8	399.5	400.6	400.6	401.6
65°	362.6	351.0	340.5	333.1	333.1	327.8	322.6	322.6	316.2	318.3	319.4
67.5°	289.9	280.4	269.9	264.6	261.4	257.2	254.0	251.9	248.8	248.8	250.9
70°	224.5	215.0	209.8	201.3	200.3	197.1	192.9	189.7	188.7	188.7	187.6
72.5°	169.7	161.3	155.0	149.7	146.5	143.4	139.1	138.1	136.0	136.0	138.1
75°	118.1	112.8	107.5	102.2	100.1	99.1	95.9	93.8	93.8	92.8	93.8
77.5°	79.1	73.8	68.5	66.4	64.3	62.2	61.1	60.1	56.9	56.9	56.9
80°	45.3	43.2	41.1	37.9	37.9	36.9	34.8	33.7	32.7	32.7	32.7
82.5°	23.2	22.1	20.0	19.0	19.0	19.0	17.9	17.9	16.9	16.9	16.9
85°	9.5	8.4	7.4	7.4	7.4	7.4	7.4	7.4	8.4	7.4	8.4
87.5°	1.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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°	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3
2.5°	2864.0	2862.9	2862.9	2862.9	2862.9	2862.9	2861.9	2861.9	2860.8	2860.8	2860.8
5°	2846.1	2845.0	2844.0	2842.9	2841.9	2840.8	2839.8	2838.7	2835.5	2834.5	2832.4
7.5°	2820.8	2818.7	2815.5	2814.5	2812.4	2809.2	2805.0	2802.9	2798.6	2793.4	2791.3
10°	2787.1	2782.8	2779.7	2774.4	2773.4	2769.1	2758.6	2753.3	2745.9	2739.6	2732.2
12.5°	2745.9	2741.7	2734.3	2727.0	2722.8	2713.3	2703.8	2695.3	2685.9	2672.2	2661.6
15°	2695.3	2689.0	2674.3	2672.2	2665.8	2651.1	2638.4	2622.6	2607.9	2593.1	2580.4
17.5°	2627.9	2614.2	2606.8	2597.3	2589.9	2571.0	2557.3	2539.3	2519.3	2502.4	2484.5
20°	2539.3	2524.6	2511.9	2506.7	2497.2	2480.3	2463.4	2441.3	2421.3	2400.2	2384.4
22.5°	2433.9	2424.4	2405.5	2399.1	2387.5	2370.7	2350.7	2329.6	2310.6	2287.4	2266.3
25°	2321.1	2307.4	2292.7	2280.0	2271.6	2255.8	2230.5	2214.7	2193.6	2168.3	2152.5
27.5°	2201.0	2185.2	2164.1	2155.6	2148.3	2127.2	2106.1	2086.1	2069.2	2047.1	2033.4
30°	2061.8	2050.2	2036.5	2026.0	2015.4	1998.6	1979.6	1956.4	1938.5	1928.0	1909.0
32.5°	1920.6	1911.1	1893.2	1887.9	1876.3	1862.6	1848.9	1832.0	1813.1	1797.2	1782.5
35°	1769.8	1760.4	1747.7	1738.2	1734.0	1724.5	1709.8	1695.0	1685.5	1667.6	1660.2
37.5°	1619.1	1615.9	1603.3	1593.8	1590.6	1579.0	1571.7	1561.1	1547.4	1543.2	1534.8
40°	1464.2	1462.0	1454.7	1453.6	1447.3	1444.1	1433.6	1425.2	1418.8	1415.7	1410.4
42.5°	1321.8	1319.7	1313.4	1314.5	1308.1	1306.0	1305.0	1297.6	1292.3	1286.0	1287.1
45°	1181.7	1179.5	1175.3	1173.2	1176.4	1175.3	1173.2	1170.1	1170.1	1171.1	1167.9
47.5°	1046.7	1048.8	1044.6	1046.7	1046.7	1043.6	1043.6	1047.8	1048.8	1050.9	1053.1
50°	919.2	925.5	923.4	926.6	927.6	928.7	925.5	930.8	929.7	939.2	937.1
52.5°	803.2	804.3	808.5	809.6	810.6	811.7	816.9	821.1	822.2	826.4	833.8
55°	691.5	692.5	701.0	701.0	706.3	707.3	714.7	716.8	720.0	731.5	733.7
57.5°	586.1	592.4	596.6	598.7	601.9	607.2	611.4	620.9	626.1	633.5	640.9
60°	491.2	498.6	503.9	506.0	510.2	516.5	521.8	532.3	541.8	550.2	555.5
62.5°	403.7	410.0	414.3	421.6	421.6	426.9	439.6	445.9	456.4	463.8	473.3
65°	325.7	329.9	337.3	337.3	341.5	350.0	360.5	370.0	380.5	391.1	400.6
67.5°	255.1	258.3	262.5	266.7	268.8	279.3	287.8	301.5	311.0	318.3	329.9
70°	192.9	195.0	200.3	204.5	207.7	215.0	224.5	234.0	243.5	251.9	263.5
72.5°	138.1	142.3	147.6	150.7	152.8	158.1	167.6	177.1	185.5	194.0	200.3
75°	94.9	98.0	100.1	103.3	106.5	110.7	117.0	123.3	132.8	141.3	148.6
77.5°	59.0	62.2	65.4	66.4	67.5	71.7	75.9	82.2	88.5	94.9	100.1
80°	34.8	35.8	36.9	37.9	40.1	43.2	45.3	49.5	53.8	58.0	63.2
82.5°	17.9	19.0	20.0	20.0	20.0	21.1	24.2	26.4	27.4	29.5	32.7
85°	7.4	7.4	7.4	8.4	8.4	9.5	9.5	10.5	10.5	11.6	12.6
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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: P879472

CATALOG NUMBER: LD4C65D010 EU4659035 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3
2.5°	2859.8	2859.8	2859.8	2858.7	2859.8	2859.8	2859.8	2858.7
5°	2832.4	2830.3	2830.3	2829.2	2828.2	2828.2	2829.2	2827.1
7.5°	2787.1	2783.9	2781.8	2781.8	2780.7	2779.7	2779.7	2774.4
10°	2728.0	2721.7	2721.7	2719.6	2711.2	2710.1	2708.0	2708.0
12.5°	2654.2	2646.9	2642.6	2637.4	2632.1	2627.9	2626.8	2622.6
15°	2566.7	2557.3	2549.9	2547.8	2539.3	2533.0	2533.0	2530.9
17.5°	2471.9	2457.1	2451.8	2446.6	2435.0	2433.9	2431.8	2422.3
20°	2364.4	2350.7	2343.3	2338.0	2330.6	2320.1	2318.0	2319.0
22.5°	2251.6	2232.6	2226.3	2221.0	2213.6	2204.1	2204.1	2196.8
25°	2134.6	2117.7	2111.4	2105.0	2093.5	2089.2	2084.0	2085.0
27.5°	2015.4	1999.6	1994.4	1982.8	1975.4	1970.1	1964.9	1964.9
30°	1891.1	1882.6	1874.2	1873.1	1858.4	1852.1	1846.8	1842.6
32.5°	1770.9	1760.4	1756.1	1751.9	1744.5	1736.1	1735.1	1727.7
35°	1652.8	1642.3	1637.0	1632.8	1624.4	1621.2	1618.1	1620.2
37.5°	1528.5	1526.3	1523.2	1517.9	1512.6	1511.6	1507.4	1512.6
40°	1406.2	1405.1	1400.9	1402.0	1402.0	1399.9	1402.0	1402.0
42.5°	1288.1	1288.1	1283.9	1286.0	1287.1	1289.2	1292.3	1294.4
45°	1173.2	1172.2	1173.2	1175.3	1173.2	1178.5	1182.7	1185.9
47.5°	1055.2	1056.2	1060.4	1061.5	1063.6	1071.0	1071.0	1071.0
50°	942.4	947.6	945.5	951.9	950.8	955.0	950.8	950.8
52.5°	834.9	840.1	841.2	842.2	848.6	849.6	849.6	848.6
55°	738.9	746.3	743.1	748.4	751.6	753.7	756.8	754.7
57.5°	650.4	653.5	656.7	657.8	662.0	664.1	666.2	664.1
60°	562.9	569.2	574.5	575.5	577.6	579.8	580.8	584.0
62.5°	480.7	491.2	493.3	494.4	499.6	502.8	504.9	507.0
65°	407.9	415.3	420.6	423.8	428.0	428.0	431.1	431.1
67.5°	337.3	344.7	347.9	350.0	356.3	357.3	362.6	362.6
70°	273.0	278.3	280.4	283.6	289.9	294.1	296.2	298.3
72.5°	210.8	217.1	220.3	224.5	228.7	231.9	233.0	236.1
75°	153.9	163.4	164.4	168.7	171.8	176.0	178.1	177.1
77.5°	107.5	110.7	114.9	117.0	120.2	123.3	126.5	126.5
80°	66.4	70.6	71.7	72.7	76.9	79.1	81.2	81.2
82.5°	34.8	36.9	39.0	40.1	42.2	42.2	43.2	44.3
85°	13.7	14.8	14.8	14.8	15.8	16.9	16.9	16.9
87.5°	2.1	3.2	2.1	2.1	3.2	3.2	3.2	3.2
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)