

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: P879488

Luminaire Tested: **LD4C75D010 EU4759027 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: P879488  
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: LD4C75D010 EU4759027 4LBLDWWH  
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBLDWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

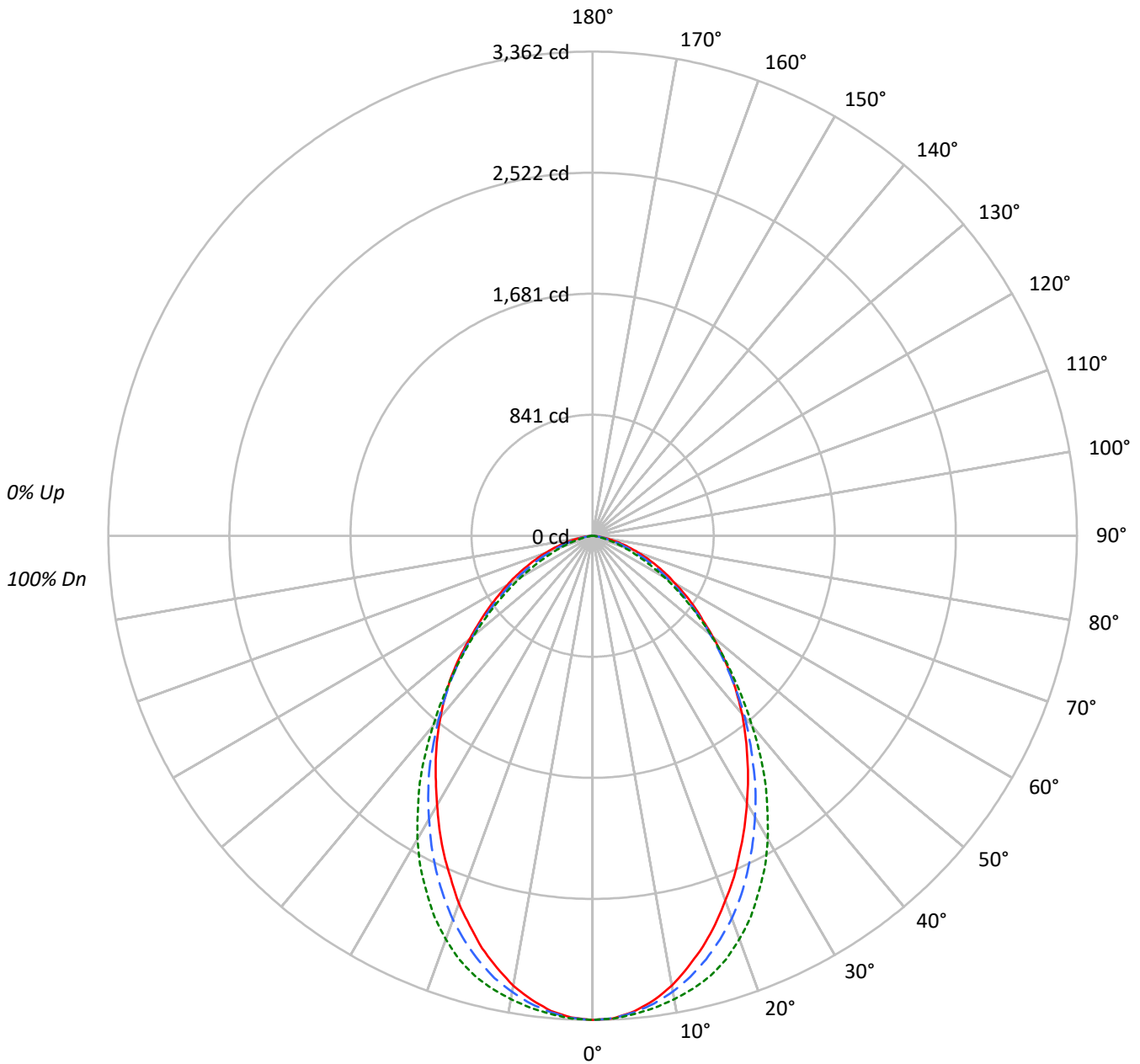
Lumens per Lamp: N/A  
Luminaire Lumens: 6014.0 lumens  
Efficiency: N/A  
Efficacy: 73.8 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 81.5  
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									
RC	80									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°	413070	413070	413070
5°	408864	411146	408408
10°	395566	407579	395728
15°	375813	402357	377072
20°	352247	389704	355150
25°	328067	369737	331077
30°	303919	344902	306188
35°	280381	313526	284640
40°	258619	276244	263382
45°	234272	239415	241344
50°	207678	205078	212876
55°	185123	172700	189364
60°	162019	140176	168088
65°	141772	108401	146802
70°	119326	79383	125504
75°	93178	51597	98446
80°	61127	27097	67282
85°	20862	12122	27910



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.9	5.2
10°-20°	857.6	14.3
20°-30°	1179.5	19.6
30°-40°	1230.5	20.5
40°-50°	1052.7	17.5
50°-60°	753.0	12.5
60°-70°	436.9	7.3
70°-80°	168.4	2.8
80°-90°	21.4	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°	2351.0	39.1
0°-40°	3581.4	59.6
0°-60°	5387.2	89.6
0°-90°	6014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6014.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3362	3362	3362	3362	3362	
5°	3315	3322	3334	3322	3312	312
15°	2955	3044	3164	3055	2965	828
25°	2420	2554	2728	2570	2442	1113
35°	1870	1944	2090	1974	1898	1171
45°	1348	1337	1378	1371	1389	1039
55°	864	821	806	843	884	773
65°	488	431	373	446	505	486
75°	196	147	109	156	207	211
85°	15	11	9	12	20	29
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°	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3
2.5°	3353.7	3351.2	3352.4	3352.4	3352.4	3351.2	3353.7	3353.7	3352.4	3352.4	3352.4
5°	3315.4	3312.9	3314.2	3315.4	3315.4	3315.4	3316.6	3317.9	3319.1	3320.3	3321.6
7.5°	3253.7	3250.0	3253.7	3258.6	3258.6	3259.8	3261.1	3262.3	3266.0	3272.2	3275.9
10°	3170.9	3170.9	3172.2	3175.9	3182.0	3180.8	3184.5	3190.7	3198.1	3206.7	3212.9
12.5°	3066.0	3068.4	3072.1	3075.9	3082.0	3085.7	3091.9	3099.3	3111.7	3124.0	3137.6
15°	2954.8	2956.1	2957.3	2966.0	2972.1	2980.8	2985.7	3000.5	3011.6	3028.9	3043.7
17.5°	2830.1	2828.9	2832.6	2840.0	2854.8	2858.5	2864.7	2880.8	2896.8	2920.3	2940.0
20°	2694.3	2701.7	2706.6	2716.5	2725.2	2735.0	2740.0	2759.7	2778.3	2800.5	2826.4
22.5°	2565.9	2559.7	2568.4	2579.5	2586.9	2594.3	2602.9	2623.9	2643.7	2670.8	2696.8
25°	2420.2	2423.9	2430.1	2438.7	2448.6	2458.5	2468.3	2490.6	2501.7	2530.1	2553.5
27.5°	2281.9	2288.1	2290.5	2301.6	2310.3	2317.7	2322.6	2348.6	2358.4	2383.1	2406.6
30°	2142.4	2148.5	2148.5	2160.9	2167.0	2174.5	2186.8	2204.1	2218.9	2236.2	2253.5
32.5°	2007.8	2007.8	2012.7	2023.8	2030.0	2038.6	2042.3	2054.7	2069.5	2086.8	2105.3
35°	1869.5	1873.2	1878.1	1878.1	1889.2	1894.2	1899.1	1911.4	1921.3	1928.7	1943.6
37.5°	1742.3	1742.3	1738.6	1744.8	1752.2	1750.9	1758.3	1764.5	1770.7	1779.3	1791.7
40°	1612.6	1612.6	1607.7	1611.4	1616.3	1615.1	1612.6	1618.8	1623.7	1629.9	1642.3
42.5°	1480.5	1478.0	1476.8	1476.8	1479.3	1476.8	1479.3	1480.5	1480.5	1480.5	1487.9
45°	1348.4	1354.6	1347.2	1344.7	1341.0	1337.3	1336.0	1337.3	1342.2	1336.0	1337.3
47.5°	1218.7	1221.2	1216.3	1212.6	1208.9	1206.4	1208.9	1201.4	1203.9	1205.2	1200.2
50°	1086.6	1081.7	1081.7	1078.0	1079.2	1078.0	1075.5	1073.0	1073.0	1066.9	1063.2
52.5°	964.4	966.8	969.3	960.7	961.9	955.7	957.0	950.8	950.8	943.4	945.8
55°	864.3	860.6	860.6	856.9	855.7	849.5	848.3	844.6	835.9	831.0	821.1
57.5°	760.6	759.4	754.5	755.7	748.3	747.0	744.6	738.4	732.2	726.1	714.9
60°	659.4	660.6	660.6	658.1	654.4	648.3	649.5	640.9	632.2	621.1	611.2
62.5°	575.4	571.7	570.5	568.0	560.6	560.6	554.4	548.2	539.6	528.5	519.8
65°	487.7	489.0	485.3	481.6	474.2	472.9	468.0	463.0	454.4	443.3	430.9
67.5°	408.7	406.2	405.0	401.3	393.9	392.7	389.0	377.8	370.4	359.3	349.4
70°	332.2	329.7	330.9	324.7	317.3	313.6	312.4	303.8	292.6	284.0	274.1
72.5°	260.5	260.5	259.3	253.1	249.4	247.0	242.0	232.1	226.0	216.1	208.7
75°	196.3	195.1	192.6	188.9	184.0	181.5	179.0	172.9	164.2	153.1	146.9
77.5°	135.8	137.1	134.6	133.4	127.2	123.5	122.2	118.5	111.1	103.7	97.5
80°	86.4	85.2	84.0	81.5	80.3	79.0	75.3	72.9	65.4	61.7	58.0
82.5°	46.9	44.5	44.5	43.2	40.7	39.5	38.3	35.8	34.6	32.1	29.6
85°	14.8	16.1	14.8	14.8	14.8	13.6	13.6	13.6	12.3	12.3	11.1
87.5°	1.2	2.5	1.2	1.2	2.5	1.2	1.2	2.5	1.2	1.2	2.5
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°	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3
2.5°	3352.4	3353.7	3353.7	3354.9	3354.9	3354.9	3354.9	3354.9	3354.9	3354.9	3354.9
5°	3325.3	3325.3	3327.7	3330.2	3330.2	3330.2	3331.5	3333.9	3333.9	3333.9	3332.7
7.5°	3280.8	3285.8	3290.7	3295.6	3296.9	3298.1	3300.6	3305.5	3305.5	3305.5	3305.5
10°	3222.8	3233.9	3240.1	3247.5	3251.2	3253.7	3261.1	3262.3	3266.0	3267.2	3266.0
12.5°	3148.7	3163.5	3177.1	3189.5	3194.4	3199.3	3206.7	3214.1	3217.9	3221.6	3220.3
15°	3066.0	3082.0	3103.0	3116.6	3126.5	3133.9	3145.0	3154.9	3161.1	3163.5	3163.5
17.5°	2966.0	2985.7	3007.9	3030.2	3036.3	3048.7	3061.0	3074.6	3082.0	3083.3	3082.0
20°	2854.8	2877.1	2895.6	2917.8	2931.4	2937.6	2954.8	2972.1	2979.5	2980.8	2979.5
22.5°	2722.7	2743.7	2768.4	2791.9	2803.0	2814.1	2832.6	2849.9	2859.8	2867.2	2859.8
25°	2575.8	2605.4	2628.9	2648.6	2664.7	2675.8	2699.2	2712.8	2728.9	2727.6	2728.9
27.5°	2431.3	2456.0	2481.9	2505.4	2515.3	2527.6	2546.1	2568.4	2581.9	2590.6	2589.3
30°	2283.1	2302.9	2325.1	2346.1	2362.1	2372.0	2399.2	2409.1	2426.4	2431.3	2427.6
32.5°	2126.3	2139.9	2162.1	2190.5	2196.7	2206.6	2223.8	2248.5	2254.7	2257.2	2258.4
35°	1959.6	1985.5	2004.1	2021.3	2026.3	2034.9	2054.7	2073.2	2079.4	2090.5	2085.6
37.5°	1805.3	1820.1	1828.7	1846.0	1860.8	1868.2	1878.1	1890.5	1902.8	1907.7	1906.5
40°	1650.9	1658.3	1665.7	1684.2	1685.5	1685.5	1700.3	1717.6	1717.6	1722.5	1722.5
42.5°	1492.9	1494.1	1504.0	1513.8	1516.3	1518.8	1533.6	1536.1	1543.5	1547.2	1552.1
45°	1339.7	1347.2	1353.3	1354.6	1360.7	1362.0	1365.7	1369.4	1380.5	1378.0	1380.5
47.5°	1200.2	1203.9	1207.6	1207.6	1211.3	1210.1	1216.3	1212.6	1220.0	1222.4	1226.1
50°	1063.2	1069.3	1065.6	1068.1	1066.9	1070.6	1068.1	1068.1	1068.1	1073.0	1076.7
52.5°	937.2	938.4	934.7	936.0	936.0	933.5	936.0	934.7	933.5	933.5	934.7
55°	821.1	816.2	813.7	808.8	802.6	810.0	806.3	803.8	808.8	806.3	808.8
57.5°	708.8	702.6	697.7	695.2	686.5	691.5	686.5	684.1	684.1	684.1	690.2
60°	602.6	596.4	590.2	582.8	581.6	579.1	576.6	570.5	571.7	570.5	572.9
62.5°	510.0	497.6	489.0	482.8	481.6	477.9	474.2	468.0	469.2	469.2	470.5
65°	424.8	411.2	398.8	390.2	390.2	384.0	377.8	377.8	370.4	372.9	374.1
67.5°	339.6	328.5	316.1	309.9	306.2	301.3	297.6	295.1	291.4	291.4	293.9
70°	263.0	251.9	245.7	235.8	234.6	230.9	226.0	222.3	221.0	221.0	219.8
72.5°	198.8	188.9	181.5	175.3	171.6	167.9	163.0	161.8	159.3	159.3	161.8
75°	138.3	132.1	125.9	119.8	117.3	116.1	112.4	109.9	109.9	108.7	109.9
77.5°	92.6	86.4	80.3	77.8	75.3	72.9	71.6	70.4	66.7	66.7	66.7
80°	53.1	50.6	48.2	44.5	44.5	43.2	40.7	39.5	38.3	38.3	38.3
82.5°	27.2	25.9	23.5	22.2	22.2	22.2	21.0	21.0	19.8	19.8	19.8
85°	11.1	9.9	8.6	8.6	8.6	8.6	8.6	8.6	9.9	8.6	9.9
87.5°	1.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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°	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3
2.5°	3354.9	3353.7	3353.7	3353.7	3353.7	3353.7	3352.4	3352.4	3351.2	3351.2	3351.2
5°	3333.9	3332.7	3331.5	3330.2	3329.0	3327.7	3326.5	3325.3	3321.6	3320.3	3317.9
7.5°	3304.3	3301.8	3298.1	3296.9	3294.4	3290.7	3285.8	3283.3	3278.4	3272.2	3269.7
10°	3264.8	3259.8	3256.1	3250.0	3248.7	3243.8	3231.4	3225.3	3216.6	3209.2	3200.6
12.5°	3216.6	3211.7	3203.0	3194.4	3189.5	3178.3	3167.2	3157.3	3146.2	3130.2	3117.8
15°	3157.3	3149.9	3132.7	3130.2	3122.8	3105.5	3090.7	3072.1	3054.9	3037.6	3022.8
17.5°	3078.3	3062.3	3053.6	3042.5	3033.9	3011.6	2995.6	2974.6	2951.1	2931.4	2910.4
20°	2974.6	2957.3	2942.5	2936.3	2925.2	2905.5	2885.7	2859.8	2836.3	2811.6	2793.1
22.5°	2851.1	2840.0	2817.8	2810.4	2796.8	2777.0	2753.6	2728.9	2706.6	2679.5	2654.8
25°	2719.0	2702.9	2685.7	2670.8	2661.0	2642.4	2612.8	2594.3	2569.6	2540.0	2521.4
27.5°	2578.2	2559.7	2535.0	2525.1	2516.5	2491.8	2467.1	2443.6	2423.9	2398.0	2381.9
30°	2415.2	2401.7	2385.6	2373.3	2360.9	2341.2	2318.9	2291.8	2270.8	2258.4	2236.2
32.5°	2249.8	2238.7	2217.7	2211.5	2197.9	2181.9	2165.8	2146.1	2123.8	2105.3	2088.0
35°	2073.2	2062.1	2047.3	2036.2	2031.2	2020.1	2002.8	1985.5	1974.4	1953.4	1944.8
37.5°	1896.6	1892.9	1878.1	1867.0	1863.3	1849.7	1841.1	1828.7	1812.7	1807.7	1797.8
40°	1715.1	1712.6	1704.0	1702.8	1695.4	1691.7	1679.3	1669.4	1662.0	1658.3	1652.1
42.5°	1548.4	1546.0	1538.5	1539.8	1532.4	1529.9	1528.7	1520.0	1513.8	1506.4	1507.7
45°	1384.2	1381.7	1376.8	1374.3	1378.0	1376.8	1374.3	1370.6	1370.6	1371.8	1368.1
47.5°	1226.1	1228.6	1223.7	1226.1	1226.1	1222.4	1222.4	1227.4	1228.6	1231.1	1233.6
50°	1076.7	1084.1	1081.7	1085.4	1086.6	1087.8	1084.1	1090.3	1089.1	1100.2	1097.7
52.5°	940.9	942.1	947.1	948.3	949.6	950.8	957.0	961.9	963.1	968.1	976.7
55°	810.0	811.3	821.1	821.1	827.3	828.5	837.2	839.7	843.4	856.9	859.4
57.5°	686.5	693.9	698.9	701.4	705.1	711.2	716.2	727.3	733.5	742.1	750.7
60°	575.4	584.1	590.2	592.7	597.6	605.0	611.2	623.6	634.7	644.6	650.7
62.5°	472.9	480.3	485.3	493.9	493.9	500.1	514.9	522.3	534.7	543.3	554.4
65°	381.5	386.5	395.1	395.1	400.1	409.9	422.3	433.4	445.8	458.1	469.2
67.5°	298.8	302.5	307.5	312.4	314.9	327.2	337.1	353.1	364.3	372.9	386.5
70°	226.0	228.4	234.6	239.5	243.3	251.9	263.0	274.1	285.2	295.1	308.7
72.5°	161.8	166.7	172.9	176.6	179.0	185.2	196.3	207.4	217.3	227.2	234.6
75°	111.1	114.8	117.3	121.0	124.7	129.7	137.1	144.5	155.6	165.5	174.1
77.5°	69.1	72.9	76.6	77.8	79.0	84.0	88.9	96.3	103.7	111.1	117.3
80°	40.7	42.0	43.2	44.5	46.9	50.6	53.1	58.0	63.0	67.9	74.1
82.5°	21.0	22.2	23.5	23.5	23.5	24.7	28.4	30.9	32.1	34.6	38.3
85°	8.6	8.6	8.6	9.9	9.9	11.1	11.1	12.3	12.3	13.6	14.8
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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: P879488

CATALOG NUMBER: LD4C75D010 EU4759027 4LBDWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3
2.5°	3350.0	3350.0	3350.0	3348.7	3350.0	3350.0	3350.0	3348.7
5°	3317.9	3315.4	3315.4	3314.2	3312.9	3312.9	3314.2	3311.7
7.5°	3264.8	3261.1	3258.6	3258.6	3257.4	3256.1	3256.1	3250.0
10°	3195.6	3188.2	3188.2	3185.7	3175.9	3174.6	3172.2	3172.2
12.5°	3109.2	3100.5	3095.6	3089.4	3083.3	3078.3	3077.1	3072.1
15°	3006.7	2995.6	2986.9	2984.5	2974.6	2967.2	2967.2	2964.7
17.5°	2895.6	2878.3	2872.1	2865.9	2852.4	2851.1	2848.7	2837.5
20°	2769.6	2753.6	2744.9	2738.8	2730.1	2717.8	2715.3	2716.5
22.5°	2637.5	2615.3	2607.9	2601.7	2593.0	2581.9	2581.9	2573.3
25°	2500.4	2480.7	2473.3	2465.9	2452.3	2447.3	2441.2	2442.4
27.5°	2360.9	2342.4	2336.2	2322.6	2314.0	2307.8	2301.6	2301.6
30°	2215.2	2205.3	2195.4	2194.2	2176.9	2169.5	2163.3	2158.4
32.5°	2074.4	2062.1	2057.2	2052.2	2043.6	2033.7	2032.5	2023.8
35°	1936.1	1923.8	1917.6	1912.7	1902.8	1899.1	1895.4	1897.9
37.5°	1790.4	1788.0	1784.3	1778.1	1771.9	1770.7	1765.7	1771.9
40°	1647.2	1646.0	1641.0	1642.3	1642.3	1639.8	1642.3	1642.3
42.5°	1508.9	1508.9	1504.0	1506.4	1507.7	1510.1	1513.8	1516.3
45°	1374.3	1373.1	1374.3	1376.8	1374.3	1380.5	1385.4	1389.1
47.5°	1236.0	1237.3	1242.2	1243.4	1245.9	1254.5	1254.5	1254.5
50°	1103.9	1110.1	1107.6	1115.0	1113.8	1118.7	1113.8	1113.8
52.5°	978.0	984.1	985.4	986.6	994.0	995.2	995.2	994.0
55°	865.6	874.2	870.5	876.7	880.4	882.9	886.6	884.1
57.5°	761.9	765.6	769.3	770.5	775.4	777.9	780.4	777.9
60°	659.4	666.8	673.0	674.2	676.7	679.1	680.4	684.1
62.5°	563.1	575.4	577.9	579.1	585.3	589.0	591.5	593.9
65°	477.9	486.5	492.7	496.4	501.3	501.3	505.0	505.0
67.5°	395.1	403.8	407.5	409.9	417.4	418.6	424.8	424.8
70°	319.8	326.0	328.5	332.2	339.6	344.5	347.0	349.4
72.5°	247.0	254.4	258.1	263.0	267.9	271.7	272.9	276.6
75°	180.3	191.4	192.6	197.6	201.3	206.2	208.7	207.4
77.5°	125.9	129.7	134.6	137.1	140.8	144.5	148.2	148.2
80°	77.8	82.7	84.0	85.2	90.1	92.6	95.1	95.1
82.5°	40.7	43.2	45.7	46.9	49.4	49.4	50.6	51.9
85°	16.1	17.3	17.3	17.3	18.5	19.8	19.8	19.8
87.5°	2.5	3.7	2.5	2.5	3.7	3.7	3.7	3.7
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)