

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: P#

Luminaire Tested: **LD4C75D010 EX4C759030 4LBSQLWWH**

Issue Date: 2/18/2022



**Test Information**

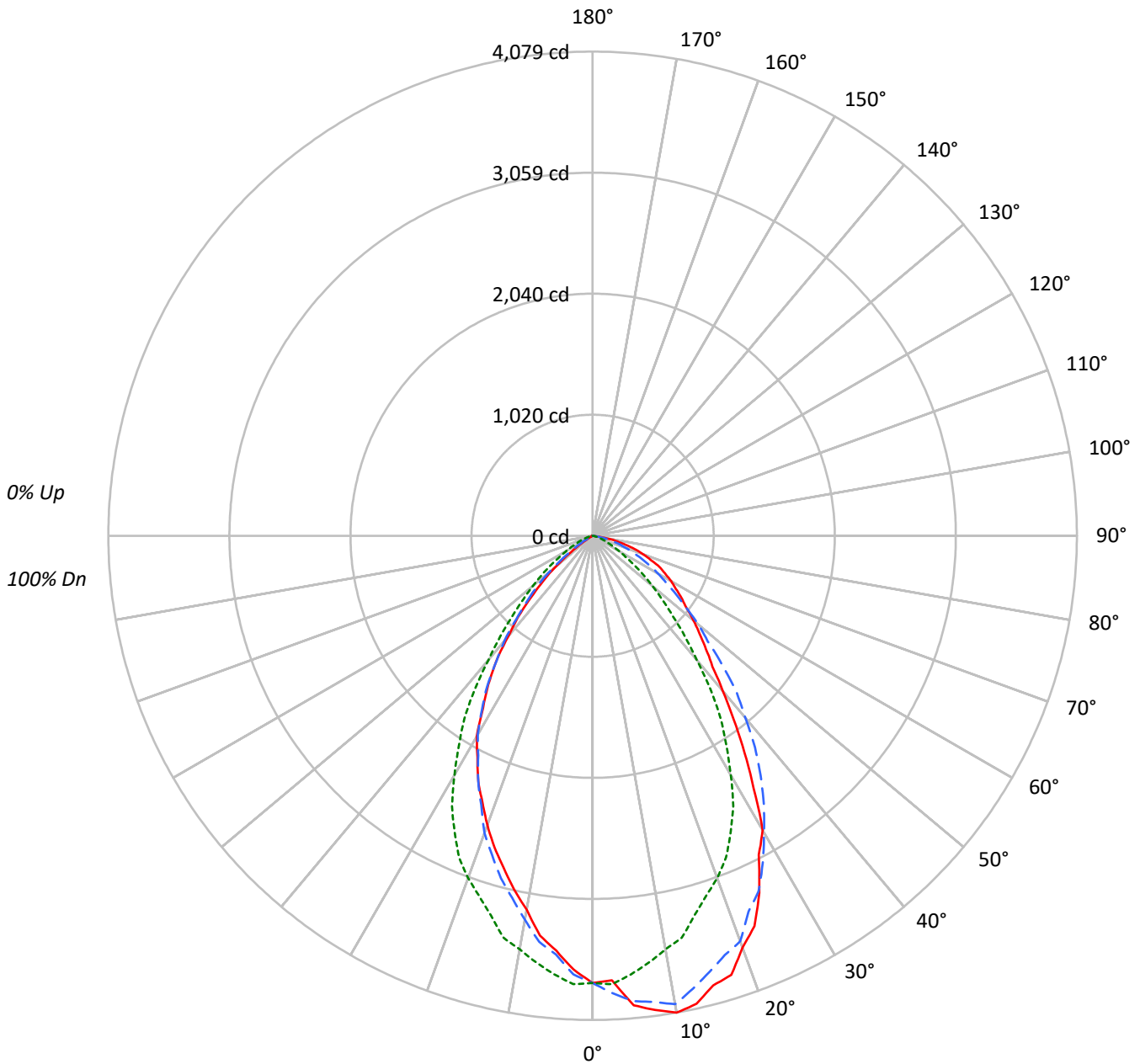
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P219529)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C75D010 EX4C759030 4LBSQLWWH  
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5400.0 lumens  
Efficiency: N/A  
Efficacy: 66.3 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1 / 1.06  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 81.5  
Input Voltage (V):  
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: LD4C75D010 EX4C759030 4LBSQLWWH

### 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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	54	53																			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48																			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44																			
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41																			
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38																			

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

	0°	90°	180°
0°	363493	363493	363493
5°	384573	359206	339950
10°	399650	346536	313332
15°	391659	330735	289229
20°	378945	314934	266232
25°	353470	292860	242854
30°	319084	259187	217417
35°	262839	221883	180374
40°	214505	171264	138830
45°	184297	130070	99858
50°	166802	99013	63061
55°	153504	71428	22811
60°	147319	48804	3493
65°	142307	33014	1050
70°	127403	22908	1298
75°	104423	11818	0
80°	65290	5001	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.0	6.5
10°-20°	950.9	17.6
20°-30°	1269.8	23.5
30°-40°	1205.4	22.3
40°-50°	833.2	15.4
50°-60°	460.4	8.5
60°-70°	228.6	4.2
70°-80°	90.1	1.7
80°-90°	8.6	0.2
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°	2573.7	47.7
0°-40°	3779.1	70.0
0°-60°	5072.7	93.9
0°-90°	5400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5400.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3767	3767	3767	3767	3767	
5°	3970	3934	3709	3541	3510	380
15°	3921	3803	3311	2986	2895	1109
25°	3320	3306	2751	2281	2281	1514
35°	2231	2466	1884	1549	1531	1398
45°	1351	1549	953	782	732	1053
55°	912	858	425	217	136	821
65°	623	452	145	5	5	605
75°	280	172	32	0	0	299
85°	0	5	0	0	0	26
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C75D010 EX4C759030 4LBSQLWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3767.2	3767.2	3767.2	3767.2	3767.2	3767.2	3767.2	3767.2	3767.2	3767.2	3767.2
2.5°	3749.1	3853.0	3862.0	3853.0	3866.6	3862.0	3884.7	3862.0	3889.3	3848.6	3857.6
5°	3970.5	3929.8	4015.6	3970.5	3970.5	3966.1	3952.5	3947.9	3966.1	3907.3	3934.4
7.5°	4029.3	4088.0	4164.8	4070.0	4074.4	4074.4	4047.3	4038.3	4038.3	3929.8	3961.5
10°	4079.0	4042.7	4083.4	4047.3	4079.0	4074.4	4092.4	4033.7	4074.4	4011.2	4006.6
12.5°	4038.3	4024.7	4079.0	4020.2	4002.2	4006.6	3984.1	3970.5	3984.1	3911.7	3907.3
15°	3920.8	3934.4	4015.6	3952.5	3943.4	3934.4	3907.3	3862.0	3898.3	3798.8	3803.4
17.5°	3880.2	3857.6	3871.2	3816.9	3830.5	3821.5	3816.9	3776.4	3767.2	3704.0	3704.0
20°	3690.5	3740.1	3740.1	3704.0	3704.0	3699.6	3640.8	3676.9	3636.2	3618.2	3636.2
22.5°	3559.4	3564.0	3564.0	3532.3	3536.9	3518.9	3487.2	3464.5	3487.2	3464.5	3428.4
25°	3320.1	3329.2	3383.3	3324.6	3315.5	3333.6	3306.5	3292.9	3288.5	3234.3	3306.5
27.5°	3031.0	3121.2	3116.8	3094.1	3121.2	3085.1	3071.7	3076.1	3089.7	3085.1	3103.2
30°	2863.9	2877.4	2891.0	2872.9	2877.4	2863.9	2863.9	2868.3	2904.4	2891.0	2886.4
32.5°	2525.0	2570.1	2606.4	2606.4	2610.8	2624.5	2619.9	2714.7	2737.4	2692.2	2683.2
35°	2231.4	2263.1	2294.6	2299.2	2358.0	2362.4	2367.0	2394.1	2457.2	2470.9	2466.3
37.5°	1951.4	1983.0	1992.0	2032.7	2064.4	2095.9	2132.1	2168.2	2222.4	2267.5	2245.0
40°	1703.0	1716.4	1739.1	1757.1	1820.3	1820.3	1838.4	1910.7	1969.5	2005.6	2001.0
42.5°	1495.2	1499.6	1517.7	1549.4	1608.1	1594.5	1608.1	1657.9	1743.5	1748.1	1797.8
45°	1350.6	1346.0	1359.7	1364.1	1400.4	1418.4	1427.4	1463.5	1535.7	1544.8	1549.4
47.5°	1219.7	1215.1	1237.7	1246.8	1260.2	1278.3	1278.3	1282.9	1309.9	1332.6	1314.5
50°	1111.2	1111.2	1111.2	1120.2	1142.9	1138.3	1142.9	1160.9	1174.4	1165.3	1160.9
52.5°	993.7	1011.7	1025.4	1030.0	1034.4	1034.4	1039.0	1030.0	1025.4	1011.7	984.7
55°	912.5	930.5	930.5	930.5	930.5	948.6	926.1	930.5	930.5	894.4	858.3
57.5°	831.2	849.3	862.7	844.7	862.7	844.7	835.7	831.2	822.0	785.9	731.8
60°	763.4	772.5	767.9	763.4	772.5	758.8	749.8	731.8	722.7	673.0	636.9
62.5°	686.6	691.1	695.7	686.6	677.6	673.0	655.0	627.9	609.8	569.1	537.5
65°	623.3	609.8	605.2	600.8	591.8	578.2	564.7	533.0	519.4	483.3	451.6
67.5°	528.4	524.0	533.0	519.4	496.9	496.9	483.3	456.2	424.6	402.1	370.4
70°	451.6	447.2	438.2	424.6	420.1	402.1	402.1	370.4	361.4	320.7	293.6
72.5°	370.4	370.4	356.8	343.3	329.7	320.7	316.2	293.6	280.1	257.5	234.8
75°	280.1	280.1	275.5	261.9	252.9	243.9	239.4	221.4	207.8	185.3	171.7
77.5°	198.7	198.7	180.7	171.7	176.1	167.1	158.0	153.6	149.0	135.6	117.5
80°	117.5	112.9	99.5	103.9	99.5	99.5	94.9	90.3	81.2	72.2	63.2
82.5°	31.7	36.1	36.1	36.1	40.7	31.7	31.7	31.7	36.1	36.1	22.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	4.6
87.5°	4.6	9.0	18.1	18.1	18.1	18.1	18.1	13.6	13.6	13.6	9.0
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°	3767.2	3767.2	3767.2	3767.2	3767.2	3767.2	3767.2	3767.2	3767.2	3767.2	3767.2
2.5°	3812.5	3807.9	3812.5	3780.8	3853.0	3798.8	3789.8	3780.8	3812.5	3780.8	3735.7
5°	3893.7	3848.6	3834.9	3821.5	3862.0	3798.8	3785.4	3789.8	3767.2	3708.6	3713.0
7.5°	3920.8	3880.2	3839.5	3753.7	3789.8	3776.4	3740.1	3713.0	3676.9	3627.2	3618.2
10°	3929.8	3884.7	3825.9	3798.8	3744.7	3726.6	3713.0	3667.9	3622.8	3536.9	3514.3
12.5°	3902.7	3848.6	3776.4	3753.7	3713.0	3654.3	3622.8	3577.5	3536.9	3469.1	3419.4
15°	3785.4	3740.1	3717.6	3640.8	3622.8	3586.5	3523.3	3460.1	3401.4	3310.9	3283.9
17.5°	3649.8	3631.8	3609.1	3550.4	3546.0	3509.8	3451.1	3396.8	3320.1	3180.0	3134.8
20°	3509.8	3509.8	3437.5	3415.0	3460.1	3387.7	3342.6	3292.9	3134.8	3067.1	2985.8
22.5°	3406.0	3356.2	3315.5	3279.4	3283.9	3238.7	3175.6	3076.1	3017.3	2936.1	2841.3
25°	3202.6	3220.7	3130.4	3116.8	3130.4	3026.4	2994.9	2913.5	2827.6	2750.8	2678.6
27.5°	3076.1	3026.4	2967.8	2918.1	2918.1	2877.4	2787.1	2769.1	2637.9	2565.7	2475.3
30°	2886.4	2850.3	2800.6	2728.3	2719.3	2687.6	2615.4	2570.1	2434.8	2326.3	2276.5
32.5°	2646.9	2633.5	2592.8	2511.6	2484.5	2448.2	2358.0	2281.1	2218.0	2095.9	2037.3
35°	2475.3	2425.7	2339.9	2272.1	2249.5	2186.3	2113.9	2059.8	1992.0	1883.7	1806.9
37.5°	2218.0	2168.2	2086.8	2005.6	2005.6	1942.4	1843.0	1788.8	1694.0	1630.6	1567.4
40°	1992.0	1928.8	1847.6	1752.7	1739.1	1648.7	1608.1	1517.7	1458.9	1359.7	1350.6
42.5°	1739.1	1680.3	1608.1	1535.7	1481.6	1436.5	1332.6	1264.8	1201.6	1151.9	1138.3
45°	1508.7	1431.9	1368.7	1278.3	1224.1	1169.9	1102.2	1057.0	1007.3	953.2	921.5
47.5°	1309.9	1246.8	1156.3	1075.1	1020.9	993.7	916.9	867.3	826.6	790.5	767.9
50°	1106.8	1030.0	980.2	889.8	880.8	817.6	754.4	713.7	691.1	659.6	627.9
52.5°	953.2	880.8	813.0	745.4	709.1	686.6	627.9	587.2	555.7	533.0	515.0
55°	804.0	740.8	686.6	618.9	596.2	564.7	496.9	487.9	456.2	424.6	402.1
57.5°	691.1	632.3	569.1	524.0	483.3	460.8	406.5	370.4	352.3	325.3	302.6
60°	587.2	524.0	474.3	420.1	402.1	370.4	329.7	298.2	275.5	252.9	230.4
62.5°	492.3	438.2	384.0	338.7	311.6	293.6	261.9	234.8	212.4	194.3	176.1
65°	406.5	356.8	311.6	266.5	252.9	230.4	207.8	185.3	167.1	144.6	126.5
67.5°	334.3	289.2	243.9	212.4	198.7	189.7	162.6	140.0	126.5	112.9	94.9
70°	261.9	230.4	194.3	167.1	153.6	140.0	121.9	108.5	90.3	81.2	67.8
72.5°	203.3	176.1	144.6	121.9	112.9	103.9	85.8	72.2	63.2	54.2	45.1
75°	144.6	121.9	103.9	81.2	76.8	72.2	58.8	49.7	40.7	31.7	27.1
77.5°	99.5	81.2	63.2	54.2	49.7	40.7	36.1	27.1	22.7	18.1	13.6
80°	54.2	40.7	31.7	27.1	22.7	18.1	18.1	13.6	9.0	9.0	4.6
82.5°	18.1	13.6	9.0	4.6	4.6	4.6	4.6	4.6	4.6	0.0	4.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	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



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3767.2	3767.2	3767.2	3767.2	3767.2	3767.2	3767.2	3767.2	3767.2	3767.2	3767.2
2.5°	3762.7	3713.0	3726.6	3726.6	3717.6	3717.6	3708.6	3695.0	3699.6	3672.3	3613.7
5°	3722.0	3658.9	3649.8	3658.9	3622.8	3613.7	3595.7	3622.8	3541.3	3573.0	3536.9
7.5°	3604.7	3546.0	3532.3	3564.0	3518.9	3491.6	3487.2	3523.3	3451.1	3415.0	3374.3
10°	3473.6	3451.1	3410.4	3387.7	3374.3	3378.7	3342.6	3297.5	3283.9	3274.8	3238.7
12.5°	3356.2	3306.5	3270.4	3243.3	3234.3	3234.3	3175.6	3166.5	3125.8	3116.8	3062.6
15°	3216.1	3157.5	3134.8	3098.7	3067.1	3085.1	3017.3	2999.3	2985.8	2927.1	2936.1
17.5°	3094.1	3031.0	2976.8	2954.2	2927.1	2900.0	2836.7	2850.3	2818.6	2818.6	2737.4
20°	2936.1	2868.3	2827.6	2782.5	2782.5	2746.4	2701.3	2705.7	2665.0	2624.5	2552.1
22.5°	2769.1	2696.7	2646.9	2628.9	2583.8	2574.7	2520.6	2507.0	2452.8	2457.2	2394.1
25°	2592.8	2520.6	2452.8	2457.2	2416.7	2398.7	2367.0	2303.8	2281.1	2254.1	2236.0
27.5°	2385.0	2335.3	2276.5	2272.1	2195.3	2199.7	2159.2	2141.2	2086.8	2100.5	2059.8
30°	2195.3	2123.1	2068.8	2055.3	2023.7	2014.6	1951.4	1924.2	1933.4	1897.1	1874.6
32.5°	2001.0	1892.7	1870.0	1843.0	1824.9	1802.3	1757.1	1775.2	1734.5	1743.5	1707.4
35°	1743.5	1698.4	1639.6	1639.6	1621.6	1603.5	1572.0	1590.1	1549.4	1531.3	1495.2
37.5°	1526.7	1486.2	1427.4	1445.5	1413.8	1386.7	1359.7	1364.1	1328.0	1323.6	1287.3
40°	1291.9	1269.2	1228.7	1228.7	1206.1	1206.1	1192.4	1179.0	1156.3	1129.2	1088.5
42.5°	1070.5	1052.4	1034.4	1039.0	1007.3	1034.4	998.3	1020.9	948.6	944.1	916.9
45°	907.9	867.3	871.8	853.7	835.7	844.7	813.0	822.0	781.5	772.5	745.4
47.5°	736.4	722.7	695.7	686.6	686.6	673.0	659.6	655.0	636.9	614.3	578.2
50°	605.2	555.7	546.5	533.0	524.0	524.0	506.0	478.9	483.3	460.8	424.6
52.5°	474.3	433.6	415.5	411.1	393.1	384.0	361.4	343.3	329.7	320.7	298.2
55°	365.8	329.7	307.2	307.2	280.1	280.1	248.5	234.8	216.8	198.7	185.3
57.5°	275.5	257.5	234.8	216.8	207.8	185.3	167.1	144.6	131.0	103.9	85.8
60°	207.8	189.7	167.1	153.6	144.6	121.9	99.5	81.2	49.7	40.7	36.1
62.5°	153.6	135.6	112.9	103.9	94.9	76.8	54.2	27.1	13.6	13.6	13.6
65°	112.9	90.3	72.2	63.2	54.2	40.7	18.1	9.0	4.6	4.6	4.6
67.5°	76.8	58.8	40.7	36.1	27.1	13.6	4.6	4.6	4.6	4.6	4.6
70°	49.7	36.1	18.1	13.6	9.0	4.6	4.6	4.6	4.6	4.6	4.6
72.5°	31.7	18.1	9.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	18.1	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	4.6
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: P#

CATALOG NUMBER: LD4C75D010 EX4C759030 4LBSQLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3767.2	3767.2	3767.2	3767.2	3767.2	3767.2	3767.2	3767.2
2.5°	3676.9	3645.2	3663.3	3622.8	3640.8	3672.3	3649.8	3658.9
5°	3550.4	3532.3	3509.8	3451.1	3496.2	3532.3	3514.3	3509.8
7.5°	3415.0	3351.6	3383.3	3365.3	3356.2	3392.3	3351.6	3396.8
10°	3274.8	3229.7	3225.3	3193.6	3193.6	3220.7	3225.3	3198.0
12.5°	3067.1	3044.6	3044.6	3040.0	3035.4	3062.6	3067.1	3053.6
15°	2918.1	2909.0	2886.4	2882.0	2854.9	2895.4	2900.0	2895.4
17.5°	2737.4	2741.8	2719.3	2719.3	2737.4	2750.8	2714.7	2750.8
20°	2615.4	2592.8	2583.8	2543.1	2565.7	2588.4	2588.4	2592.8
22.5°	2439.2	2403.1	2416.7	2394.1	2380.4	2412.1	2412.1	2425.7
25°	2240.4	2240.4	2249.5	2236.0	2245.0	2263.1	2249.5	2281.1
27.5°	2050.7	2068.8	2068.8	2050.7	2059.8	2113.9	2136.6	2100.5
30°	1874.6	1879.1	1892.7	1883.7	1910.7	1928.8	1924.2	1951.4
32.5°	1675.9	1698.4	1707.4	1694.0	1703.0	1743.5	1721.0	1716.4
35°	1522.3	1481.6	1477.2	1481.6	1499.6	1508.7	1499.6	1531.3
37.5°	1300.9	1287.3	1269.2	1273.8	1287.3	1305.5	1314.5	1337.0
40°	1088.5	1070.5	1070.5	1066.1	1052.4	1102.2	1102.2	1102.2
42.5°	903.4	898.8	876.4	876.4	894.4	907.9	898.8	930.5
45°	740.8	722.7	709.1	709.1	722.7	722.7	736.4	731.8
47.5°	582.8	564.7	569.1	555.7	569.1	587.2	564.7	569.1
50°	438.2	438.2	429.2	438.2	433.6	438.2	429.2	420.1
52.5°	298.2	338.7	343.3	325.3	284.6	248.5	225.8	243.9
55°	171.7	153.6	153.6	149.0	140.0	135.6	121.9	135.6
57.5°	85.8	76.8	76.8	76.8	72.2	67.8	58.8	58.8
60°	36.1	31.7	31.7	27.1	22.7	18.1	13.6	18.1
62.5°	13.6	9.0	9.0	9.0	9.0	9.0	9.0	9.0
65°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
67.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
70°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)