

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

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: 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: -

Luminaire Equipment: Sample No.   Condition   Description

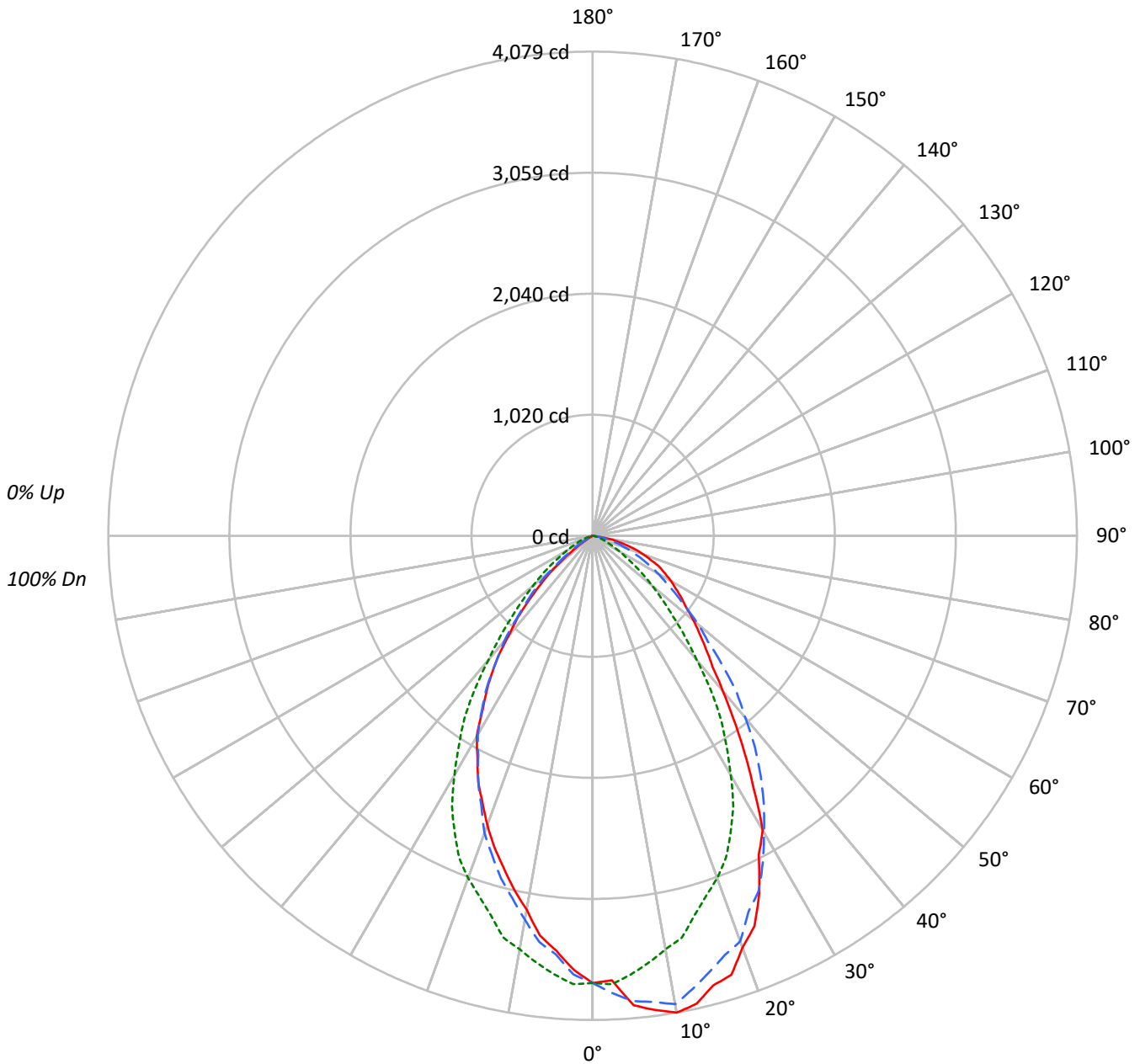
**Summary**

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#

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**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



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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)