

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 EX4C759040 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 EX4C759040 4LBSQLWWH  
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

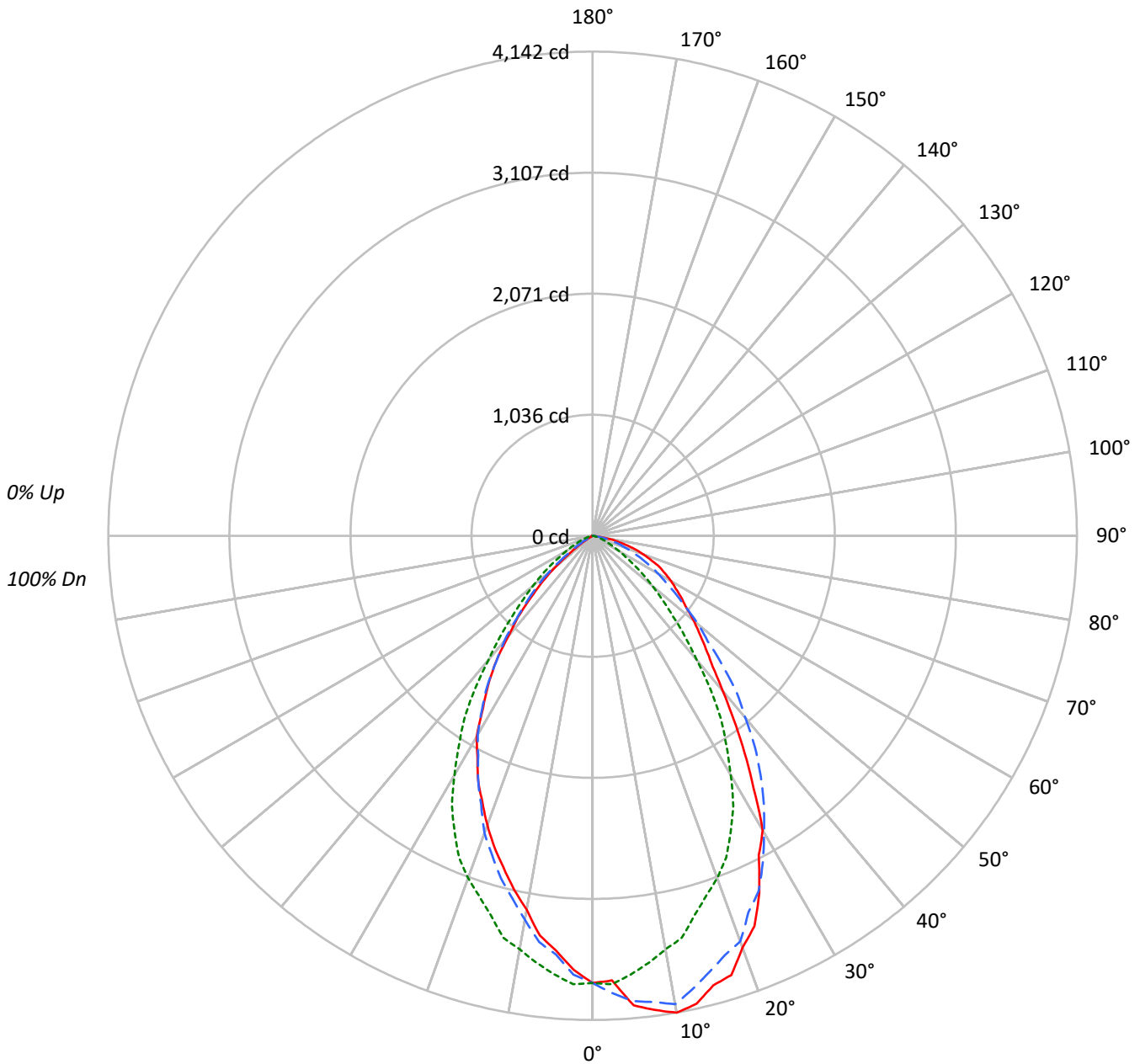
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5484.0 lumens  
Efficiency: N/A  
Efficacy: 67.3 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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### 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°	369147	369147	369147
5°	390558	364794	345239
10°	405862	351925	318211
15°	397753	335879	293724
20°	384839	319832	270370
25°	358974	297417	246634
30°	324053	263220	220804
35°	266927	225335	183177
40°	217843	173922	140984
45°	187163	132089	101414
50°	169399	100544	64052
55°	155892	72538	23164
60°	149616	49557	3531
65°	144522	33516	1073
70°	129406	23274	1326
75°	106063	12004	0
80°	66290	5112	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	358.5	6.5
10°-20°	965.7	17.6
20°-30°	1289.6	23.5
30°-40°	1224.2	22.3
40°-50°	846.2	15.4
50°-60°	467.5	8.5
60°-70°	232.2	4.2
70°-80°	91.5	1.7
80°-90°	8.7	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°	2613.7	47.7
0°-40°	3837.9	70.0
0°-60°	5151.6	93.9
0°-90°	5484.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5484.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3826	3826	3826	3826	3826	
5°	4032	3996	3766	3596	3564	386
15°	3982	3863	3362	3032	2940	1126
25°	3372	3358	2794	2317	2317	1537
35°	2266	2505	1913	1574	1555	1420
45°	1372	1574	968	794	743	1070
55°	927	872	431	220	138	834
65°	633	459	147	5	5	614
75°	284	174	32	0	0	303
85°	0	5	0	0	0	26
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°	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8
2.5°	3807.4	3912.9	3922.1	3912.9	3926.8	3922.1	3945.1	3922.1	3949.8	3908.4	3917.6
5°	4032.3	3990.9	4078.1	4032.3	4032.3	4027.8	4013.9	4009.3	4027.8	3968.1	3995.6
7.5°	4091.9	4151.6	4229.6	4133.3	4137.8	4137.8	4110.3	4101.1	4101.1	3990.9	4023.1
10°	4142.4	4105.6	4146.9	4110.3	4142.4	4137.8	4156.1	4096.4	4137.8	4073.6	4068.9
12.5°	4101.1	4087.3	4142.4	4082.8	4064.4	4068.9	4046.1	4032.3	4046.1	3972.6	3968.1
15°	3981.8	3995.6	4078.1	4013.9	4004.8	3995.6	3968.1	3922.1	3958.9	3857.9	3862.6
17.5°	3940.6	3917.6	3931.4	3876.3	3890.1	3880.9	3876.3	3835.1	3825.8	3761.6	3761.6
20°	3747.9	3798.3	3798.3	3761.6	3761.6	3757.1	3697.4	3734.1	3692.8	3674.4	3692.8
22.5°	3614.8	3619.4	3619.4	3587.3	3591.9	3573.6	3541.4	3518.4	3541.4	3518.4	3481.8
25°	3371.8	3380.9	3435.9	3376.3	3367.1	3385.4	3357.9	3344.1	3339.6	3284.6	3357.9
27.5°	3078.1	3169.8	3165.3	3142.3	3169.8	3133.1	3119.5	3123.9	3137.8	3133.1	3151.4
30°	2908.5	2922.1	2936.0	2917.6	2922.1	2908.5	2908.5	2913.0	2949.6	2936.0	2931.3
32.5°	2564.3	2610.1	2647.0	2647.0	2651.5	2665.3	2660.6	2757.0	2780.0	2734.1	2725.0
35°	2266.1	2298.3	2330.3	2335.0	2394.6	2399.1	2403.8	2431.3	2495.5	2509.3	2504.6
37.5°	1981.8	2013.8	2023.0	2064.3	2096.5	2128.5	2165.3	2202.0	2257.0	2302.8	2280.0
40°	1729.5	1743.1	1766.1	1784.5	1848.6	1848.6	1867.0	1940.5	2000.1	2036.8	2032.1
42.5°	1518.5	1523.0	1541.3	1573.5	1633.1	1619.3	1633.1	1683.6	1770.6	1775.3	1825.8
45°	1371.6	1367.0	1380.8	1385.3	1422.1	1440.5	1449.6	1486.3	1559.6	1568.8	1573.5
47.5°	1238.7	1234.0	1257.0	1266.1	1279.8	1298.1	1298.1	1302.8	1330.3	1353.3	1335.0
50°	1128.5	1128.5	1128.5	1137.6	1160.7	1156.0	1160.7	1179.0	1192.6	1183.5	1179.0
52.5°	1009.1	1027.5	1041.3	1046.0	1050.5	1050.5	1055.2	1046.0	1041.3	1027.5	1000.0
55°	926.7	945.0	945.0	945.0	945.0	963.3	940.5	945.0	945.0	908.3	871.7
57.5°	844.2	862.5	876.1	857.8	876.1	857.8	848.7	844.2	834.8	798.1	743.2
60°	775.3	784.5	779.8	775.3	784.5	770.7	761.5	743.2	734.0	683.5	646.8
62.5°	697.3	701.8	706.5	697.3	688.2	683.5	665.2	637.7	619.3	578.0	545.8
65°	633.0	619.3	614.7	610.2	601.0	587.2	573.5	541.3	527.5	490.8	458.7
67.5°	536.7	532.2	541.3	527.5	504.7	504.7	490.8	463.3	431.2	408.3	376.2
70°	458.7	454.2	445.0	431.2	426.7	408.3	408.3	376.2	367.0	325.7	298.2
72.5°	376.2	376.2	362.3	348.7	334.8	325.7	321.2	298.2	284.5	261.5	238.5
75°	284.5	284.5	279.8	266.0	256.8	247.7	243.2	224.8	211.0	188.2	174.3
77.5°	201.8	201.8	183.5	174.3	178.8	169.7	160.5	156.0	151.3	137.7	119.3
80°	119.3	114.7	101.0	105.5	101.0	101.0	96.3	91.7	82.5	73.3	64.2
82.5°	32.2	36.7	36.7	36.7	41.3	32.2	32.2	32.2	36.7	36.7	23.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.7	4.7
87.5°	4.7	9.2	18.3	18.3	18.3	18.3	18.3	13.8	13.8	13.8	9.2
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°	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8
2.5°	3871.8	3867.1	3871.8	3839.6	3912.9	3857.9	3848.8	3839.6	3871.8	3839.6	3793.8
5°	3954.3	3908.4	3894.6	3880.9	3922.1	3857.9	3844.3	3848.8	3825.8	3766.3	3770.8
7.5°	3981.8	3940.6	3899.3	3812.1	3848.8	3835.1	3798.3	3770.8	3734.1	3683.6	3674.4
10°	3990.9	3945.1	3885.4	3857.9	3802.9	3784.6	3770.8	3724.9	3679.1	3591.9	3568.9
12.5°	3963.4	3908.4	3835.1	3812.1	3770.8	3711.1	3679.1	3633.1	3591.9	3523.1	3472.6
15°	3844.3	3798.3	3775.4	3697.4	3679.1	3642.3	3578.1	3513.9	3454.3	3362.4	3334.9
17.5°	3706.6	3688.3	3665.3	3605.6	3601.1	3564.4	3504.8	3449.6	3371.8	3229.4	3183.6
20°	3564.4	3564.4	3490.9	3468.1	3513.9	3440.4	3394.6	3344.1	3183.6	3114.8	3032.3
22.5°	3458.9	3408.4	3367.1	3330.4	3334.9	3289.1	3224.9	3123.9	3064.3	2981.8	2885.5
25°	3252.4	3270.8	3179.1	3165.3	3179.1	3073.4	3041.5	2958.8	2871.6	2793.6	2720.3
27.5°	3123.9	3073.4	3014.0	2963.5	2963.5	2922.1	2830.5	2812.1	2679.0	2605.6	2513.8
30°	2931.3	2894.6	2844.1	2770.8	2761.6	2729.5	2656.1	2610.1	2472.6	2362.5	2312.0
32.5°	2688.1	2674.5	2633.1	2550.6	2523.1	2486.3	2394.6	2316.6	2252.5	2128.5	2069.0
35°	2513.8	2463.5	2376.3	2307.5	2284.5	2220.3	2146.8	2091.8	2023.0	1913.0	1835.0
37.5°	2252.5	2202.0	2119.3	2036.8	2036.8	1972.6	1871.6	1816.6	1720.3	1656.0	1591.8
40°	2023.0	1958.8	1876.3	1780.0	1766.1	1674.3	1633.1	1541.3	1481.6	1380.8	1371.6
42.5°	1766.1	1706.5	1633.1	1559.6	1504.6	1458.8	1353.3	1284.5	1220.3	1169.8	1156.0
45°	1532.1	1454.1	1390.0	1298.1	1243.1	1188.1	1119.3	1073.5	1023.0	968.0	935.8
47.5°	1330.3	1266.1	1174.3	1091.8	1036.8	1009.1	931.1	880.8	839.5	802.8	779.8
50°	1124.0	1046.0	995.5	903.6	894.5	830.3	766.2	724.8	701.8	669.8	637.7
52.5°	968.0	894.5	825.6	757.0	720.2	697.3	637.7	596.3	564.3	541.3	523.0
55°	816.5	752.3	697.3	628.5	605.5	573.5	504.7	495.5	463.3	431.2	408.3
57.5°	701.8	642.2	578.0	532.2	490.8	468.0	412.8	376.2	357.8	330.3	307.3
60°	596.3	532.2	481.7	426.7	408.3	376.2	334.8	302.8	279.8	256.8	234.0
62.5°	500.0	445.0	390.0	344.0	316.5	298.2	266.0	238.5	215.7	197.3	178.8
65°	412.8	362.3	316.5	270.7	256.8	234.0	211.0	188.2	169.7	146.8	128.5
67.5°	339.5	293.7	247.7	215.7	201.8	192.7	165.2	142.2	128.5	114.7	96.3
70°	266.0	234.0	197.3	169.7	156.0	142.2	123.8	110.2	91.7	82.5	68.8
72.5°	206.5	178.8	146.8	123.8	114.7	105.5	87.2	73.3	64.2	55.0	45.8
75°	146.8	123.8	105.5	82.5	78.0	73.3	59.7	50.5	41.3	32.2	27.5
77.5°	101.0	82.5	64.2	55.0	50.5	41.3	36.7	27.5	23.0	18.3	13.8
80°	55.0	41.3	32.2	27.5	23.0	18.3	18.3	13.8	9.2	9.2	4.7
82.5°	18.3	13.8	9.2	4.7	4.7	4.7	4.7	4.7	4.7	0.0	4.7
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°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	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°	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8
2.5°	3821.3	3770.8	3784.6	3784.6	3775.4	3775.4	3766.3	3752.4	3757.1	3729.4	3669.9
5°	3779.9	3715.8	3706.6	3715.8	3679.1	3669.9	3651.6	3679.1	3596.4	3628.6	3591.9
7.5°	3660.8	3601.1	3587.3	3619.4	3573.6	3545.9	3541.4	3578.1	3504.8	3468.1	3426.8
10°	3527.6	3504.8	3463.4	3440.4	3426.8	3431.3	3394.6	3348.8	3334.9	3325.8	3289.1
12.5°	3408.4	3357.9	3321.3	3293.8	3284.6	3284.6	3224.9	3215.8	3174.4	3165.3	3110.3
15°	3266.1	3206.6	3183.6	3147.0	3114.8	3133.1	3064.3	3045.9	3032.3	2972.6	2981.8
17.5°	3142.3	3078.1	3023.1	3000.1	2972.6	2945.1	2880.8	2894.6	2862.4	2862.4	2780.0
20°	2981.8	2913.0	2871.6	2825.8	2825.8	2789.1	2743.3	2747.8	2706.4	2665.3	2591.8
22.5°	2812.1	2738.6	2688.1	2669.8	2624.0	2614.8	2559.8	2546.0	2491.0	2495.5	2431.3
25°	2633.1	2559.8	2491.0	2495.5	2454.3	2436.0	2403.8	2339.6	2316.6	2289.1	2270.8
27.5°	2422.1	2371.6	2312.0	2307.5	2229.5	2234.0	2192.8	2174.5	2119.3	2133.1	2091.8
30°	2229.5	2156.1	2101.0	2087.3	2055.1	2046.0	1981.8	1954.1	1963.5	1926.6	1903.8
32.5°	2032.1	1922.1	1899.1	1871.6	1853.3	1830.3	1784.5	1802.8	1761.5	1770.6	1734.0
35°	1770.6	1724.8	1665.1	1665.1	1646.8	1628.5	1596.5	1614.8	1573.5	1555.1	1518.5
37.5°	1550.5	1509.3	1449.6	1468.0	1435.8	1408.3	1380.8	1385.3	1348.6	1344.1	1307.3
40°	1312.0	1289.0	1247.8	1247.8	1224.8	1224.8	1211.0	1197.3	1174.3	1146.8	1105.5
42.5°	1087.1	1068.8	1050.5	1055.2	1023.0	1050.5	1013.8	1036.8	963.3	958.8	931.1
45°	922.0	880.8	885.3	867.0	848.7	857.8	825.6	834.8	793.7	784.5	757.0
47.5°	747.8	734.0	706.5	697.3	697.3	683.5	669.8	665.2	646.8	623.8	587.2
50°	614.7	564.3	555.0	541.3	532.2	532.2	513.8	486.3	490.8	468.0	431.2
52.5°	481.7	440.3	422.0	417.5	399.2	390.0	367.0	348.7	334.8	325.7	302.8
55°	371.5	334.8	312.0	312.0	284.5	284.5	252.3	238.5	220.2	201.8	188.2
57.5°	279.8	261.5	238.5	220.2	211.0	188.2	169.7	146.8	133.0	105.5	87.2
60°	211.0	192.7	169.7	156.0	146.8	123.8	101.0	82.5	50.5	41.3	36.7
62.5°	156.0	137.7	114.7	105.5	96.3	78.0	55.0	27.5	13.8	13.8	13.8
65°	114.7	91.7	73.3	64.2	55.0	41.3	18.3	9.2	4.7	4.7	4.7
67.5°	78.0	59.7	41.3	36.7	27.5	13.8	4.7	4.7	4.7	4.7	4.7
70°	50.5	36.7	18.3	13.8	9.2	4.7	4.7	4.7	4.7	4.7	4.7
72.5°	32.2	18.3	9.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	18.3	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.7	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	4.7	4.7	4.7
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 EX4C759040 4LBSQLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8
2.5°	3734.1	3701.9	3720.3	3679.1	3697.4	3729.4	3706.6	3715.8
5°	3605.6	3587.3	3564.4	3504.8	3550.6	3587.3	3568.9	3564.4
7.5°	3468.1	3403.8	3435.9	3417.6	3408.4	3445.1	3403.8	3449.6
10°	3325.8	3279.9	3275.5	3243.3	3243.3	3270.8	3275.5	3247.8
12.5°	3114.8	3092.0	3092.0	3087.3	3082.6	3110.3	3114.8	3101.1
15°	2963.5	2954.3	2931.3	2926.8	2899.3	2940.4	2945.1	2940.4
17.5°	2780.0	2784.4	2761.6	2761.6	2780.0	2793.6	2757.0	2793.6
20°	2656.1	2633.1	2624.0	2582.6	2605.6	2628.6	2628.6	2633.1
22.5°	2477.1	2440.5	2454.3	2431.3	2417.5	2449.6	2449.6	2463.5
25°	2275.3	2275.3	2284.5	2270.8	2280.0	2298.3	2284.5	2316.6
27.5°	2082.6	2101.0	2101.0	2082.6	2091.8	2146.8	2169.8	2133.1
30°	1903.8	1908.3	1922.1	1913.0	1940.5	1958.8	1954.1	1981.8
32.5°	1702.0	1724.8	1734.0	1720.3	1729.5	1770.6	1747.8	1743.1
35°	1546.0	1504.6	1500.1	1504.6	1523.0	1532.1	1523.0	1555.1
37.5°	1321.1	1307.3	1289.0	1293.6	1307.3	1325.8	1335.0	1357.8
40°	1105.5	1087.1	1087.1	1082.7	1068.8	1119.3	1119.3	1119.3
42.5°	917.5	912.8	890.0	890.0	908.3	922.0	912.8	945.0
45°	752.3	734.0	720.2	720.2	734.0	734.0	747.8	743.2
47.5°	591.8	573.5	578.0	564.3	578.0	596.3	573.5	578.0
50°	445.0	445.0	435.8	445.0	440.3	445.0	435.8	426.7
52.5°	302.8	344.0	348.7	330.3	289.0	252.3	229.3	247.7
55°	174.3	156.0	156.0	151.3	142.2	137.7	123.8	137.7
57.5°	87.2	78.0	78.0	78.0	73.3	68.8	59.7	59.7
60°	36.7	32.2	32.2	27.5	23.0	18.3	13.8	18.3
62.5°	13.8	9.2	9.2	9.2	9.2	9.2	9.2	9.2
65°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
67.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
70°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
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)