

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 EX4C759035 4LBSQLWWLI**

Issue Date: 2/18/2022

**Test Information**

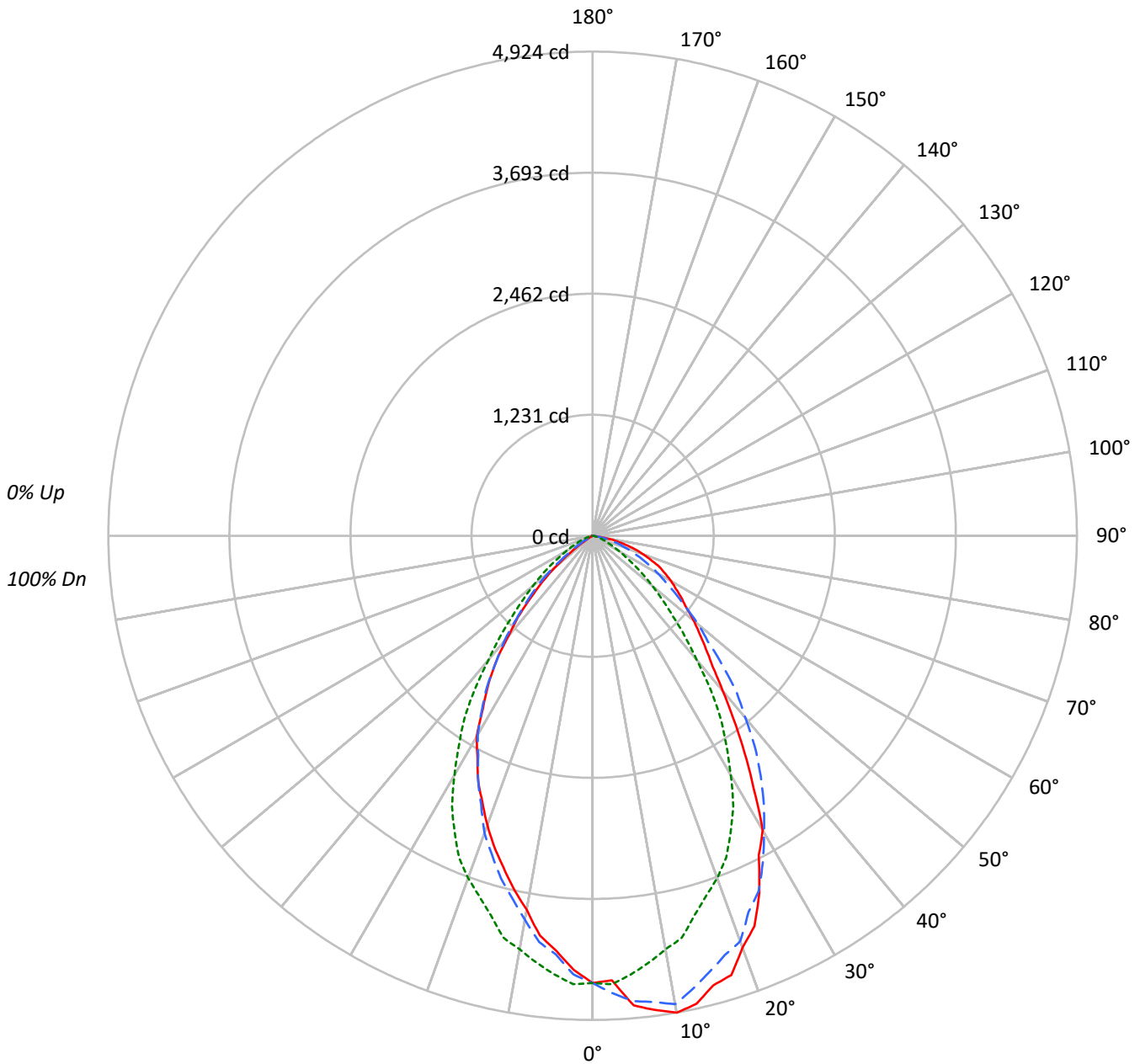
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P219529)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C75D010 EX4C759035 4LBSQLWWLI  
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6519.0 lumens  
Efficiency: N/A  
Efficacy: 80.0 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°	438812	438812	438812
5°	464267	433641	410404
10°	482460	418354	378261
15°	472812	399271	349165
20°	457476	380188	321403
25°	426717	353555	293180
30°	385209	312889	262473
35°	317306	267857	217749
40°	258956	206746	167599
45°	222491	157020	120545
50°	201373	119518	76136
55°	185298	86214	27521
60°	177868	58916	4207
65°	171782	39840	1279
70°	153809	27675	1580
75°	126082	14241	0
80°	78848	6057	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	426.1	6.5
10°-20°	1148.0	17.6
20°-30°	1532.9	23.5
30°-40°	1455.2	22.3
40°-50°	1005.9	15.4
50°-60°	555.8	8.5
60°-70°	276.0	4.2
70°-80°	108.7	1.7
80°-90°	10.4	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°	3107.0	47.7
0°-40°	4562.2	70.0
0°-60°	6123.9	93.9
0°-90°	6519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6519.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4548	4548	4548	4548	4548	
5°	4793	4750	4477	4275	4237	459
15°	4733	4592	3997	3605	3495	1339
25°	4008	3992	3321	2754	2754	1827
35°	2694	2977	2274	1870	1849	1688
45°	1630	1870	1151	943	883	1272
55°	1102	1036	512	262	164	991
65°	752	545	174	6	6	730
75°	338	207	38	0	0	360
85°	0	6	0	0	0	31
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C75D010 EX4C759035 4LBSQLWWLI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8
2.5°	4526.0	4651.4	4662.3	4651.4	4667.9	4662.3	4689.7	4662.3	4695.2	4646.1	4657.0
5°	4793.3	4744.1	4847.8	4793.3	4793.3	4787.9	4771.5	4765.9	4787.9	4717.0	4749.7
7.5°	4864.2	4935.1	5027.9	4913.3	4918.7	4918.7	4886.0	4875.1	4875.1	4744.1	4782.4
10°	4924.2	4880.4	4929.6	4886.0	4924.2	4918.7	4940.5	4869.5	4918.7	4842.4	4836.9
12.5°	4875.1	4858.7	4924.2	4853.3	4831.5	4836.9	4809.7	4793.3	4809.7	4722.3	4717.0
15°	4733.2	4749.7	4847.8	4771.5	4760.6	4749.7	4717.0	4662.3	4706.1	4586.0	4591.6
17.5°	4684.3	4657.0	4673.4	4607.8	4624.3	4613.4	4607.8	4558.9	4547.8	4471.5	4471.5
20°	4455.3	4515.1	4515.1	4471.5	4471.5	4466.2	4395.3	4438.8	4389.7	4367.9	4389.7
22.5°	4297.0	4302.5	4302.5	4264.3	4269.9	4248.1	4209.8	4182.5	4209.8	4182.5	4138.9
25°	4008.1	4019.0	4084.4	4013.5	4002.6	4024.4	3991.7	3975.2	3969.9	3904.5	3991.7
27.5°	3659.1	3768.0	3762.7	3735.3	3768.0	3724.4	3708.2	3713.5	3730.0	3724.4	3746.2
30°	3457.4	3473.6	3490.1	3468.3	3473.6	3457.4	3457.4	3462.7	3506.3	3490.1	3484.5
32.5°	3048.2	3102.7	3146.5	3146.5	3151.9	3168.3	3162.8	3277.3	3304.6	3250.1	3239.2
35°	2693.8	2732.1	2770.1	2775.6	2846.6	2851.9	2857.5	2890.2	2966.4	2982.9	2977.3
37.5°	2355.8	2393.9	2404.8	2453.9	2492.1	2530.2	2574.0	2617.5	2682.9	2737.4	2710.3
40°	2055.9	2072.1	2099.5	2121.3	2197.5	2197.5	2219.3	2306.7	2377.6	2421.2	2415.7
42.5°	1805.1	1810.4	1832.2	1870.4	1941.4	1924.9	1941.4	2001.4	2104.8	2110.4	2170.4
45°	1630.5	1625.0	1641.4	1646.8	1690.6	1712.3	1723.2	1766.8	1854.0	1864.9	1870.4
47.5°	1472.4	1466.9	1494.2	1505.1	1521.3	1543.1	1543.1	1548.7	1581.4	1608.7	1586.9
50°	1341.5	1341.5	1341.5	1352.4	1379.7	1374.1	1379.7	1401.5	1417.7	1406.8	1401.5
52.5°	1199.6	1221.4	1237.8	1243.4	1248.7	1248.7	1254.3	1243.4	1237.8	1221.4	1188.7
55°	1101.5	1123.3	1123.3	1123.3	1123.3	1145.1	1118.0	1123.3	1123.3	1079.7	1036.2
57.5°	1003.5	1025.3	1041.5	1019.7	1041.5	1019.7	1008.8	1003.5	992.4	948.8	883.4
60°	921.7	932.5	927.0	921.7	932.5	916.1	905.2	883.4	872.5	812.5	768.9
62.5°	828.9	834.3	839.8	828.9	818.0	812.5	790.7	758.0	736.2	687.1	648.8
65°	752.4	736.2	730.7	725.3	714.4	698.0	681.7	643.5	627.0	583.5	545.2
67.5°	637.9	632.6	643.5	627.0	599.9	599.9	583.5	550.8	512.5	485.4	447.2
70°	545.2	539.9	529.0	512.5	507.2	485.4	485.4	447.2	436.3	387.1	354.4
72.5°	447.2	447.2	430.7	414.5	398.0	387.1	381.8	354.4	338.2	310.8	283.5
75°	338.2	338.2	332.6	316.2	305.3	294.4	289.1	267.3	250.8	223.7	207.2
77.5°	239.9	239.9	218.1	207.2	212.6	201.7	190.8	185.4	179.9	163.6	141.9
80°	141.9	136.3	120.1	125.4	120.1	120.1	114.5	109.0	98.1	87.2	76.3
82.5°	38.2	43.6	43.6	43.6	49.1	38.2	38.2	38.2	43.6	43.6	27.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	5.6	5.6
87.5°	5.6	10.9	21.8	21.8	21.8	21.8	21.8	16.5	16.5	16.5	10.9
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8
2.5°	4602.5	4596.9	4602.5	4564.3	4651.4	4586.0	4575.1	4564.3	4602.5	4564.3	4509.8
5°	4700.6	4646.1	4629.6	4613.4	4662.3	4586.0	4569.8	4575.1	4547.8	4477.1	4482.4
7.5°	4733.2	4684.3	4635.2	4531.6	4575.1	4558.9	4515.1	4482.4	4438.8	4378.8	4367.9
10°	4744.1	4689.7	4618.7	4586.0	4520.7	4498.9	4482.4	4428.0	4373.5	4269.9	4242.5
12.5°	4711.5	4646.1	4558.9	4531.6	4482.4	4411.5	4373.5	4318.8	4269.9	4188.0	4128.0
15°	4569.8	4515.1	4488.0	4395.3	4373.5	4329.7	4253.4	4177.1	4106.2	3997.0	3964.3
17.5°	4406.2	4384.4	4357.0	4286.1	4280.8	4237.2	4166.2	4100.7	4008.1	3838.9	3784.5
20°	4237.2	4237.2	4149.8	4122.7	4177.1	4089.8	4035.3	3975.2	3784.5	3702.6	3604.6
22.5°	4111.8	4051.7	4002.6	3959.0	3964.3	3909.9	3833.6	3713.5	3642.6	3544.5	3430.0
25°	3866.3	3888.1	3779.1	3762.7	3779.1	3653.5	3615.5	3517.2	3413.6	3320.9	3233.7
27.5°	3713.5	3653.5	3582.8	3522.7	3522.7	3473.6	3364.7	3342.9	3184.6	3097.4	2988.2
30°	3484.5	3440.9	3380.9	3293.7	3282.8	3244.6	3157.4	3102.7	2939.3	2808.3	2748.3
32.5°	3195.4	3179.2	3130.1	3032.0	2999.3	2955.5	2846.6	2753.8	2677.6	2530.2	2459.5
35°	2988.2	2928.4	2824.8	2743.0	2715.6	2639.3	2552.0	2486.6	2404.8	2274.0	2181.3
37.5°	2677.6	2617.5	2519.3	2421.2	2421.2	2344.9	2224.9	2159.5	2045.0	1968.5	1892.2
40°	2404.8	2328.5	2230.4	2115.9	2099.5	1990.3	1941.4	1832.2	1761.3	1641.4	1630.5
42.5°	2099.5	2028.5	1941.4	1854.0	1788.6	1734.1	1608.7	1526.9	1450.6	1390.6	1374.1
45°	1821.3	1728.6	1652.3	1543.1	1477.8	1412.4	1330.6	1276.1	1216.1	1150.7	1112.4
47.5°	1581.4	1505.1	1395.9	1297.9	1232.5	1199.6	1106.9	1047.1	997.9	954.3	927.0
50°	1336.1	1243.4	1183.4	1074.2	1063.3	987.0	910.8	861.6	834.3	796.2	758.0
52.5°	1150.7	1063.3	981.5	899.9	856.1	828.9	758.0	708.9	670.8	643.5	621.7
55°	970.6	894.3	828.9	747.1	719.8	681.7	599.9	589.0	550.8	512.5	485.4
57.5°	834.3	763.3	687.1	632.6	583.5	556.3	490.7	447.2	425.4	392.7	365.3
60°	708.9	632.6	572.6	507.2	485.4	447.2	398.0	360.0	332.6	305.3	278.2
62.5°	594.4	529.0	463.6	408.9	376.2	354.4	316.2	283.5	256.4	234.6	212.6
65°	490.7	430.7	376.2	321.7	305.3	278.2	250.8	223.7	201.7	174.5	152.8
67.5°	403.6	349.1	294.4	256.4	239.9	229.0	196.3	169.0	152.8	136.3	114.5
70°	316.2	278.2	234.6	201.7	185.4	169.0	147.2	131.0	109.0	98.1	81.8
72.5°	245.5	212.6	174.5	147.2	136.3	125.4	103.6	87.2	76.3	65.4	54.5
75°	174.5	147.2	125.4	98.1	92.7	87.2	70.9	60.0	49.1	38.2	32.7
77.5°	120.1	98.1	76.3	65.4	60.0	49.1	43.6	32.7	27.3	21.8	16.5
80°	65.4	49.1	38.2	32.7	27.3	21.8	21.8	16.5	10.9	10.9	5.6
82.5°	21.8	16.5	10.9	5.6	5.6	5.6	5.6	5.6	5.6	0.0	5.6
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°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	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#

CATALOG NUMBER: LD4C75D010 EX4C759035 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8
2.5°	4542.5	4482.4	4498.9	4498.9	4488.0	4488.0	4477.1	4460.6	4466.2	4433.3	4362.6
5°	4493.3	4417.1	4406.2	4417.1	4373.5	4362.6	4340.8	4373.5	4275.2	4313.4	4269.9
7.5°	4351.7	4280.8	4264.3	4302.5	4248.1	4215.2	4209.8	4253.4	4166.2	4122.7	4073.5
10°	4193.4	4166.2	4117.1	4089.8	4073.5	4078.9	4035.3	3980.8	3964.3	3953.5	3909.9
12.5°	4051.7	3991.7	3948.1	3915.4	3904.5	3904.5	3833.6	3822.7	3773.6	3762.7	3697.3
15°	3882.5	3811.8	3784.5	3740.9	3702.6	3724.4	3642.6	3620.8	3604.6	3533.6	3544.5
17.5°	3735.3	3659.1	3593.7	3566.3	3533.6	3501.0	3424.5	3440.9	3402.7	3402.7	3304.6
20°	3544.5	3462.7	3413.6	3359.1	3359.1	3315.5	3261.0	3266.4	3217.2	3168.3	3080.9
22.5°	3342.9	3255.5	3195.4	3173.7	3119.2	3108.3	3042.9	3026.5	2961.1	2966.4	2890.2
25°	3130.1	3042.9	2961.1	2966.4	2917.5	2895.7	2857.5	2781.2	2753.8	2721.2	2699.4
27.5°	2879.3	2819.2	2748.3	2743.0	2650.2	2655.6	2606.6	2584.9	2519.3	2535.7	2486.6
30°	2650.2	2563.1	2497.5	2481.2	2443.0	2432.1	2355.8	2322.9	2334.0	2290.2	2263.1
32.5°	2415.7	2284.9	2257.6	2224.9	2203.1	2175.7	2121.3	2143.0	2093.9	2104.8	2061.2
35°	2104.8	2050.3	1979.4	1979.4	1957.6	1935.8	1897.8	1919.6	1870.4	1848.6	1805.1
37.5°	1843.1	1794.2	1723.2	1745.0	1706.8	1674.1	1641.4	1646.8	1603.2	1597.8	1554.0
40°	1559.6	1532.2	1483.3	1483.3	1456.0	1456.0	1439.5	1423.3	1395.9	1363.3	1314.1
42.5°	1292.3	1270.5	1248.7	1254.3	1216.1	1248.7	1205.2	1232.5	1145.1	1139.8	1106.9
45°	1096.0	1047.1	1052.4	1030.6	1008.8	1019.7	981.5	992.4	943.4	932.5	899.9
47.5°	889.0	872.5	839.8	828.9	828.9	812.5	796.2	790.7	768.9	741.6	698.0
50°	730.7	670.8	659.7	643.5	632.6	632.6	610.8	578.1	583.5	556.3	512.5
52.5°	572.6	523.4	501.6	496.3	474.5	463.6	436.3	414.5	398.0	387.1	360.0
55°	441.6	398.0	370.9	370.9	338.2	338.2	300.0	283.5	261.7	239.9	223.7
57.5°	332.6	310.8	283.5	261.7	250.8	223.7	201.7	174.5	158.1	125.4	103.6
60°	250.8	229.0	201.7	185.4	174.5	147.2	120.1	98.1	60.0	49.1	43.6
62.5°	185.4	163.6	136.3	125.4	114.5	92.7	65.4	32.7	16.5	16.5	16.5
65°	136.3	109.0	87.2	76.3	65.4	49.1	21.8	10.9	5.6	5.6	5.6
67.5°	92.7	70.9	49.1	43.6	32.7	16.5	5.6	5.6	5.6	5.6	5.6
70°	60.0	43.6	21.8	16.5	10.9	5.6	5.6	5.6	5.6	5.6	5.6
72.5°	38.2	21.8	10.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.8	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.6	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	5.6	5.6	5.6
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 EX4C759035 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8
2.5°	4438.8	4400.6	4422.4	4373.5	4395.3	4433.3	4406.2	4417.1
5°	4286.1	4264.3	4237.2	4166.2	4220.7	4264.3	4242.5	4237.2
7.5°	4122.7	4046.2	4084.4	4062.6	4051.7	4095.3	4046.2	4100.7
10°	3953.5	3899.0	3893.6	3855.4	3855.4	3888.1	3893.6	3860.7
12.5°	3702.6	3675.5	3675.5	3669.9	3664.4	3697.3	3702.6	3686.4
15°	3522.7	3511.9	3484.5	3479.2	3446.5	3495.4	3501.0	3495.4
17.5°	3304.6	3310.0	3282.8	3282.8	3304.6	3320.9	3277.3	3320.9
20°	3157.4	3130.1	3119.2	3070.0	3097.4	3124.7	3124.7	3130.1
22.5°	2944.6	2901.0	2917.5	2890.2	2873.7	2911.9	2911.9	2928.4
25°	2704.7	2704.7	2715.6	2699.4	2710.3	2732.1	2715.6	2753.8
27.5°	2475.7	2497.5	2497.5	2475.7	2486.6	2552.0	2579.3	2535.7
30°	2263.1	2268.5	2284.9	2274.0	2306.7	2328.5	2322.9	2355.8
32.5°	2023.2	2050.3	2061.2	2045.0	2055.9	2104.8	2077.7	2072.1
35°	1837.8	1788.6	1783.3	1788.6	1810.4	1821.3	1810.4	1848.6
37.5°	1570.5	1554.0	1532.2	1537.8	1554.0	1576.0	1586.9	1614.1
40°	1314.1	1292.3	1292.3	1287.0	1270.5	1330.6	1330.6	1330.6
42.5°	1090.6	1085.1	1058.0	1058.0	1079.7	1096.0	1085.1	1123.3
45°	894.3	872.5	856.1	856.1	872.5	872.5	889.0	883.4
47.5°	703.5	681.7	687.1	670.8	687.1	708.9	681.7	687.1
50°	529.0	529.0	518.1	529.0	523.4	529.0	518.1	507.2
52.5°	360.0	408.9	414.5	392.7	343.5	300.0	272.6	294.4
55°	207.2	185.4	185.4	179.9	169.0	163.6	147.2	163.6
57.5°	103.6	92.7	92.7	92.7	87.2	81.8	70.9	70.9
60°	43.6	38.2	38.2	32.7	27.3	21.8	16.5	21.8
62.5°	16.5	10.9	10.9	10.9	10.9	10.9	10.9	10.9
65°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
67.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
70°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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)