

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: **LD4C80D010 EX4C809035 4LBSQLWWLI**

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: LD4C80D010 EX4C809035 4LBSQLWWLI  
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

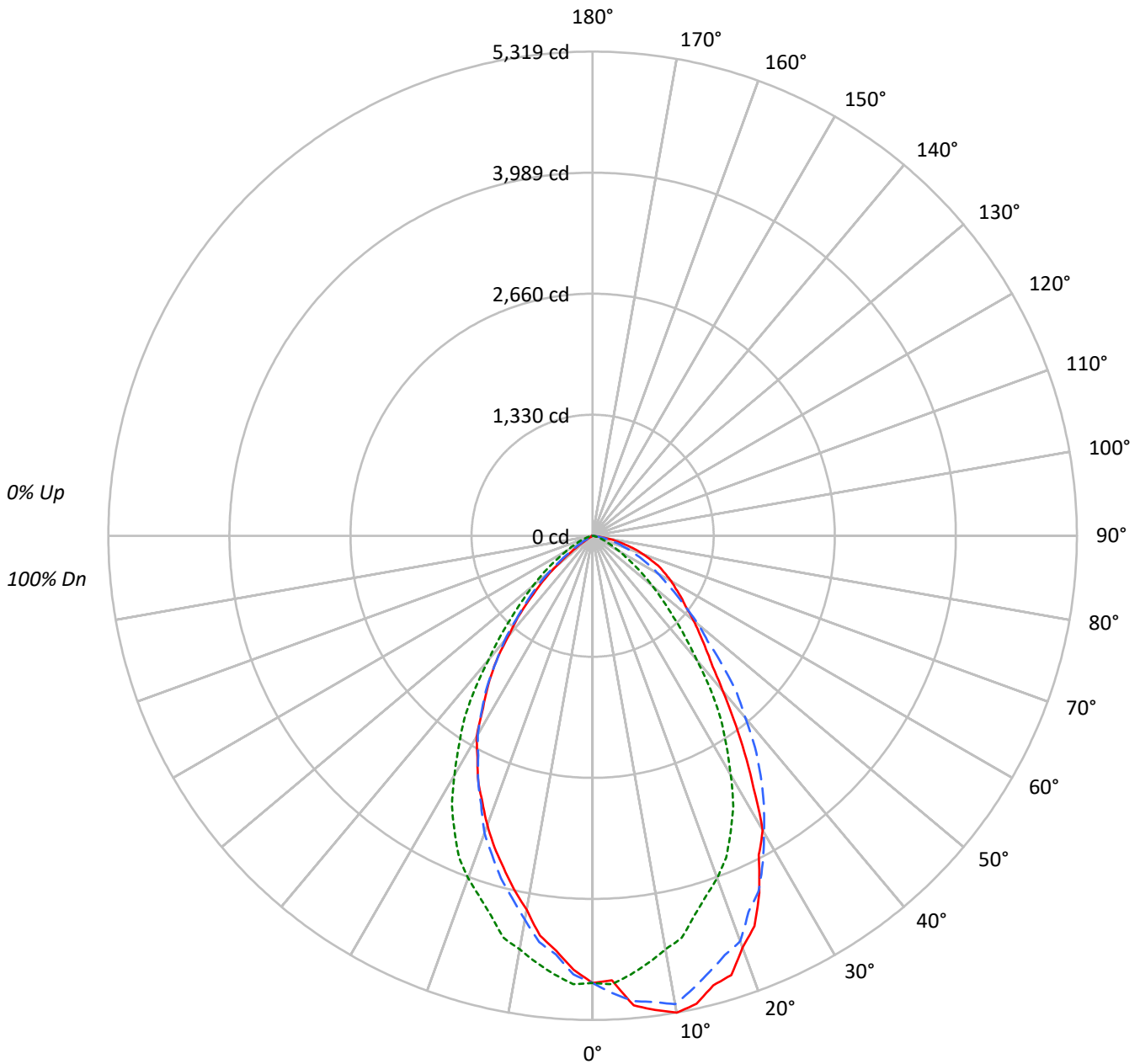
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7042.0 lumens  
Efficiency: N/A  
Efficacy: 78.7 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): 89.5  
Input Voltage (V):  
Input Current (Ain): 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				20				
RC	80				70				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°	474021	474021	474021
5°	501509	468432	443326
10°	521171	451911	408615
15°	510751	431307	377175
20°	494174	410695	347186
25°	460956	381917	316708
30°	416105	337991	283531
35°	342761	289342	235229
40°	279726	223335	181038
45°	240340	169615	130220
50°	217525	129110	82245
55°	200169	93128	29742
60°	192129	63644	4535
65°	185572	43037	1370
70°	166166	29876	1693
75°	136185	15397	0
80°	85127	6557	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	460.3	6.5
10°-20°	1240.1	17.6
20°-30°	1655.9	23.5
30°-40°	1572.0	22.3
40°-50°	1086.6	15.4
50°-60°	600.4	8.5
60°-70°	298.1	4.2
70°-80°	117.5	1.7
80°-90°	11.2	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°	3356.3	47.7
0°-40°	4928.3	70.0
0°-60°	6615.2	93.9
0°-90°	7042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7042.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4913	4913	4913	4913	4913	
5°	5178	5131	4836	4618	4577	496
15°	5113	4960	4318	3894	3776	1446
25°	4330	4312	3587	2975	2975	1974
35°	2910	3216	2456	2020	1997	1823
45°	1761	2020	1243	1019	954	1374
55°	1190	1119	554	283	177	1071
65°	813	589	188	6	6	789
75°	365	224	41	0	0	389
85°	0	6	0	0	0	34
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°	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7
2.5°	4889.1	5024.6	5036.4	5024.6	5042.4	5036.4	5065.9	5036.4	5071.9	5018.8	5030.6
5°	5177.8	5124.7	5236.7	5177.8	5177.8	5172.1	5154.3	5148.3	5172.1	5095.4	5130.7
7.5°	5254.4	5331.1	5431.2	5307.5	5313.3	5313.3	5278.0	5266.2	5266.2	5124.7	5166.1
10°	5319.3	5272.0	5325.1	5278.0	5319.3	5313.3	5336.8	5260.2	5313.3	5230.9	5224.9
12.5°	5266.2	5248.4	5319.3	5242.7	5219.1	5224.9	5195.6	5177.8	5195.6	5101.2	5095.4
15°	5113.0	5130.7	5236.7	5154.3	5142.5	5130.7	5095.4	5036.4	5083.7	4954.0	4960.0
17.5°	5060.1	5030.6	5048.4	4977.5	4995.3	4983.5	4977.5	4924.7	4912.7	4830.3	4830.3
20°	4812.7	4877.4	4877.4	4830.3	4830.3	4824.5	4747.9	4795.0	4741.9	4718.3	4741.9
22.5°	4641.7	4647.7	4647.7	4606.4	4612.4	4588.9	4547.6	4518.0	4547.6	4518.0	4470.9
25°	4329.7	4341.5	4412.1	4335.5	4323.7	4347.2	4311.9	4294.2	4288.4	4217.8	4311.9
27.5°	3952.6	4070.3	4064.5	4035.0	4070.3	4023.2	4005.7	4011.5	4029.2	4023.2	4046.8
30°	3734.7	3752.3	3770.1	3746.5	3752.3	3734.7	3734.7	3740.5	3787.6	3770.1	3764.1
32.5°	3292.8	3351.6	3399.0	3399.0	3404.7	3422.5	3416.5	3540.2	3569.7	3510.9	3499.1
35°	2909.9	2951.2	2992.3	2998.3	3074.9	3080.7	3086.7	3122.0	3204.4	3222.2	3216.2
37.5°	2544.8	2585.9	2597.7	2650.8	2692.1	2733.2	2780.5	2827.5	2898.2	2957.0	2927.7
40°	2220.8	2238.4	2267.9	2291.4	2373.8	2373.8	2397.4	2491.8	2568.4	2615.5	2609.5
42.5°	1949.9	1955.6	1979.2	2020.5	2097.1	2079.3	2097.1	2162.0	2273.7	2279.7	2344.5
45°	1761.3	1755.3	1773.1	1778.9	1826.2	1849.7	1861.5	1908.6	2002.7	2014.5	2020.5
47.5°	1590.6	1584.6	1614.1	1625.9	1643.4	1666.9	1666.9	1672.9	1708.2	1737.8	1714.3
50°	1449.1	1449.1	1449.1	1460.9	1490.4	1484.4	1490.4	1513.9	1531.5	1519.7	1513.9
52.5°	1295.8	1319.4	1337.2	1343.2	1348.9	1348.9	1354.9	1343.2	1337.2	1319.4	1284.1
55°	1189.9	1213.5	1213.5	1213.5	1213.5	1237.0	1207.7	1213.5	1213.5	1166.4	1119.3
57.5°	1084.0	1107.5	1125.1	1101.5	1125.1	1101.5	1089.8	1084.0	1072.0	1024.9	954.3
60°	995.6	1007.4	1001.4	995.6	1007.4	989.6	977.8	954.3	942.5	877.7	830.6
62.5°	895.4	901.2	907.2	895.4	883.7	877.7	854.1	818.8	795.3	742.2	700.9
65°	812.8	795.3	789.3	783.5	771.7	754.0	736.4	695.1	677.3	630.3	589.0
67.5°	689.1	683.3	695.1	677.3	648.0	648.0	630.3	595.0	553.6	524.3	483.0
70°	589.0	583.2	571.4	553.6	547.9	524.3	524.3	483.0	471.3	418.2	382.9
72.5°	483.0	483.0	465.3	447.7	429.9	418.2	412.4	382.9	365.3	335.8	306.2
75°	365.3	365.3	359.3	341.6	329.8	318.0	312.2	288.7	270.9	241.6	223.9
77.5°	259.2	259.2	235.6	223.9	229.6	217.9	206.1	200.3	194.3	176.8	153.2
80°	153.2	147.2	129.7	135.5	129.7	129.7	123.7	117.7	105.9	94.2	82.4
82.5°	41.3	47.1	47.1	47.1	53.1	41.3	41.3	41.3	47.1	47.1	29.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0	6.0
87.5°	6.0	11.8	23.5	23.5	23.5	23.5	23.5	17.8	17.8	17.8	11.8
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°	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7
2.5°	4971.7	4965.7	4971.7	4930.4	5024.6	4954.0	4942.2	4930.4	4971.7	4930.4	4871.6
5°	5077.7	5018.8	5001.0	4983.5	5036.4	4954.0	4936.4	4942.2	4912.7	4836.3	4842.0
7.5°	5113.0	5060.1	5007.1	4895.1	4942.2	4924.7	4877.4	4842.0	4795.0	4730.1	4718.3
10°	5124.7	5065.9	4989.3	4954.0	4883.4	4859.8	4842.0	4783.2	4724.3	4612.4	4582.9
12.5°	5089.4	5018.8	4924.7	4895.1	4842.0	4765.4	4724.3	4665.3	4612.4	4524.0	4459.2
15°	4936.4	4877.4	4848.0	4747.9	4724.3	4677.0	4594.6	4512.3	4435.6	4317.7	4282.4
17.5°	4759.7	4736.1	4706.6	4630.0	4624.2	4577.1	4500.5	4429.6	4329.7	4146.9	4088.1
20°	4577.1	4577.1	4482.7	4453.4	4512.3	4417.9	4359.0	4294.2	4088.1	3999.7	3893.8
22.5°	4441.6	4376.8	4323.7	4276.6	4282.4	4223.5	4141.2	4011.5	3934.8	3828.9	3705.2
25°	4176.5	4200.0	4082.3	4064.5	4082.3	3946.6	3905.5	3799.4	3687.4	3587.3	3493.1
27.5°	4011.5	3946.6	3870.2	3805.4	3805.4	3752.3	3634.6	3611.0	3440.0	3345.9	3228.0
30°	3764.1	3717.0	3652.1	3558.0	3546.2	3504.9	3410.7	3351.6	3175.1	3033.6	2968.8
32.5°	3451.8	3434.3	3381.2	3275.3	3240.0	3192.6	3074.9	2974.8	2892.4	2733.2	2656.8
35°	3228.0	3163.3	3051.4	2963.0	2933.5	2851.1	2756.7	2686.1	2597.7	2456.4	2356.3
37.5°	2892.4	2827.5	2721.4	2615.5	2615.5	2533.1	2403.4	2332.7	2209.0	2126.4	2044.0
40°	2597.7	2515.3	2409.4	2285.7	2267.9	2150.0	2097.1	1979.2	1902.6	1773.1	1761.3
42.5°	2267.9	2191.3	2097.1	2002.7	1932.1	1873.3	1737.8	1649.4	1567.0	1502.2	1484.4
45°	1967.4	1867.3	1784.9	1666.9	1596.3	1525.7	1437.3	1378.5	1313.6	1243.0	1201.7
47.5°	1708.2	1625.9	1507.9	1402.0	1331.4	1295.8	1195.7	1131.1	1078.0	1030.9	1001.4
50°	1443.3	1343.2	1278.3	1160.4	1148.6	1066.2	983.8	930.7	901.2	860.1	818.8
52.5°	1243.0	1148.6	1060.2	972.1	924.7	895.4	818.8	765.7	724.7	695.1	671.6
55°	1048.4	966.1	895.4	807.0	777.5	736.4	648.0	636.3	595.0	553.6	524.3
57.5°	901.2	824.6	742.2	683.3	630.3	601.0	530.1	483.0	459.5	424.2	394.6
60°	765.7	683.3	618.5	547.9	524.3	483.0	429.9	388.9	359.3	329.8	300.5
62.5°	642.0	571.4	500.8	441.7	406.4	382.9	341.6	306.2	276.9	253.4	229.6
65°	530.1	465.3	406.4	347.6	329.8	300.5	270.9	241.6	217.9	188.5	165.0
67.5°	435.9	377.1	318.0	276.9	259.2	247.4	212.1	182.5	165.0	147.2	123.7
70°	341.6	300.5	253.4	217.9	200.3	182.5	159.0	141.5	117.7	105.9	88.4
72.5°	265.2	229.6	188.5	159.0	147.2	135.5	111.9	94.2	82.4	70.6	58.8
75°	188.5	159.0	135.5	105.9	100.2	94.2	76.6	64.8	53.1	41.3	35.3
77.5°	129.7	105.9	82.4	70.6	64.8	53.1	47.1	35.3	29.5	23.5	17.8
80°	70.6	53.1	41.3	35.3	29.5	23.5	23.5	17.8	11.8	11.8	6.0
82.5°	23.5	17.8	11.8	6.0	6.0	6.0	6.0	6.0	6.0	0.0	6.0
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°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	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°	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7
2.5°	4906.9	4842.0	4859.8	4859.8	4848.0	4848.0	4836.3	4818.5	4824.5	4789.0	4712.6
5°	4853.8	4771.4	4759.7	4771.4	4724.3	4712.6	4689.0	4724.3	4618.2	4659.5	4612.4
7.5°	4700.8	4624.2	4606.4	4647.7	4588.9	4553.3	4547.6	4594.6	4500.5	4453.4	4400.3
10°	4529.8	4500.5	4447.4	4417.9	4400.3	4406.1	4359.0	4300.2	4282.4	4270.6	4223.5
12.5°	4376.8	4311.9	4264.9	4229.5	4217.8	4217.8	4141.2	4129.4	4076.3	4064.5	3993.9
15°	4194.0	4117.6	4088.1	4041.0	3999.7	4023.2	3934.8	3911.3	3893.8	3817.1	3828.9
17.5°	4035.0	3952.6	3882.0	3852.4	3817.1	3781.8	3699.2	3717.0	3675.7	3675.7	3569.7
20°	3828.9	3740.5	3687.4	3628.6	3628.6	3581.5	3522.7	3528.4	3475.3	3422.5	3328.1
22.5°	3611.0	3516.7	3451.8	3428.3	3369.4	3357.6	3287.0	3269.3	3198.6	3204.4	3122.0
25°	3381.2	3287.0	3198.6	3204.4	3151.6	3128.0	3086.7	3004.3	2974.8	2939.5	2915.9
27.5°	3110.3	3045.4	2968.8	2963.0	2862.9	2868.6	2815.8	2792.2	2721.4	2739.2	2686.1
30°	2862.9	2768.7	2697.8	2680.3	2639.0	2627.2	2544.8	2509.3	2521.3	2474.0	2444.7
32.5°	2609.5	2468.2	2438.7	2403.4	2379.8	2350.3	2291.4	2315.0	2261.9	2273.7	2226.6
35°	2273.7	2214.8	2138.2	2138.2	2114.7	2091.1	2050.0	2073.6	2020.5	1997.0	1949.9
37.5°	1991.0	1938.1	1861.5	1885.0	1843.7	1808.4	1773.1	1778.9	1731.8	1726.0	1678.7
40°	1684.7	1655.2	1602.3	1602.3	1572.8	1572.8	1555.0	1537.5	1507.9	1472.6	1419.5
42.5°	1396.0	1372.5	1348.9	1354.9	1313.6	1348.9	1301.8	1331.4	1237.0	1231.2	1195.7
45°	1183.9	1131.1	1136.8	1113.3	1089.8	1101.5	1060.2	1072.0	1019.1	1007.4	972.1
47.5°	960.3	942.5	907.2	895.4	895.4	877.7	860.1	854.1	830.6	801.0	754.0
50°	789.3	724.7	712.7	695.1	683.3	683.3	659.8	624.5	630.3	601.0	553.6
52.5°	618.5	565.4	541.9	536.1	512.6	500.8	471.3	447.7	429.9	418.2	388.9
55°	477.0	429.9	400.6	400.6	365.3	365.3	324.0	306.2	282.7	259.2	241.6
57.5°	359.3	335.8	306.2	282.7	270.9	241.6	217.9	188.5	170.8	135.5	111.9
60°	270.9	247.4	217.9	200.3	188.5	159.0	129.7	105.9	64.8	53.1	47.1
62.5°	200.3	176.8	147.2	135.5	123.7	100.2	70.6	35.3	17.8	17.8	17.8
65°	147.2	117.7	94.2	82.4	70.6	53.1	23.5	11.8	6.0	6.0	6.0
67.5°	100.2	76.6	53.1	47.1	35.3	17.8	6.0	6.0	6.0	6.0	6.0
70°	64.8	47.1	23.5	17.8	11.8	6.0	6.0	6.0	6.0	6.0	6.0
72.5°	41.3	23.5	11.8	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	23.5	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.8	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.0	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	6.0	6.0	6.0
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: LD4C80D010 EX4C809035 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7	4912.7
2.5°	4795.0	4753.7	4777.2	4724.3	4747.9	4789.0	4759.7	4771.4
5°	4630.0	4606.4	4577.1	4500.5	4559.3	4606.4	4582.9	4577.1
7.5°	4453.4	4370.8	4412.1	4388.6	4376.8	4423.9	4370.8	4429.6
10°	4270.6	4211.8	4206.0	4164.7	4164.7	4200.0	4206.0	4170.5
12.5°	3999.7	3970.4	3970.4	3964.4	3958.4	3993.9	3999.7	3982.1
15°	3805.4	3793.6	3764.1	3758.3	3723.0	3775.8	3781.8	3775.8
17.5°	3569.7	3575.5	3546.2	3546.2	3569.7	3587.3	3540.2	3587.3
20°	3410.7	3381.2	3369.4	3316.3	3345.9	3375.4	3375.4	3381.2
22.5°	3180.9	3133.8	3151.6	3122.0	3104.3	3145.6	3145.6	3163.3
25°	2921.7	2921.7	2933.5	2915.9	2927.7	2951.2	2933.5	2974.8
27.5°	2674.3	2697.8	2697.8	2674.3	2686.1	2756.7	2786.2	2739.2
30°	2444.7	2450.4	2468.2	2456.4	2491.8	2515.3	2509.3	2544.8
32.5°	2185.5	2214.8	2226.6	2209.0	2220.8	2273.7	2244.4	2238.4
35°	1985.2	1932.1	1926.3	1932.1	1955.6	1967.4	1955.6	1997.0
37.5°	1696.5	1678.7	1655.2	1661.2	1678.7	1702.5	1714.3	1743.6
40°	1419.5	1396.0	1396.0	1390.2	1372.5	1437.3	1437.3	1437.3
42.5°	1178.1	1172.1	1142.8	1142.8	1166.4	1183.9	1172.1	1213.5
45°	966.1	942.5	924.7	924.7	942.5	942.5	960.3	954.3
47.5°	760.0	736.4	742.2	724.7	742.2	765.7	736.4	742.2
50°	571.4	571.4	559.6	571.4	565.4	571.4	559.6	547.9
52.5°	388.9	441.7	447.7	424.2	371.1	324.0	294.5	318.0
55°	223.9	200.3	200.3	194.3	182.5	176.8	159.0	176.8
57.5°	111.9	100.2	100.2	100.2	94.2	88.4	76.6	76.6
60°	47.1	41.3	41.3	35.3	29.5	23.5	17.8	23.5
62.5°	17.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
65°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
67.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
70°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
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)