

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: **LD4C90D010 EX4C909030 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: LD4C90D010 EX4C909030 4LBSQLWWLI  
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

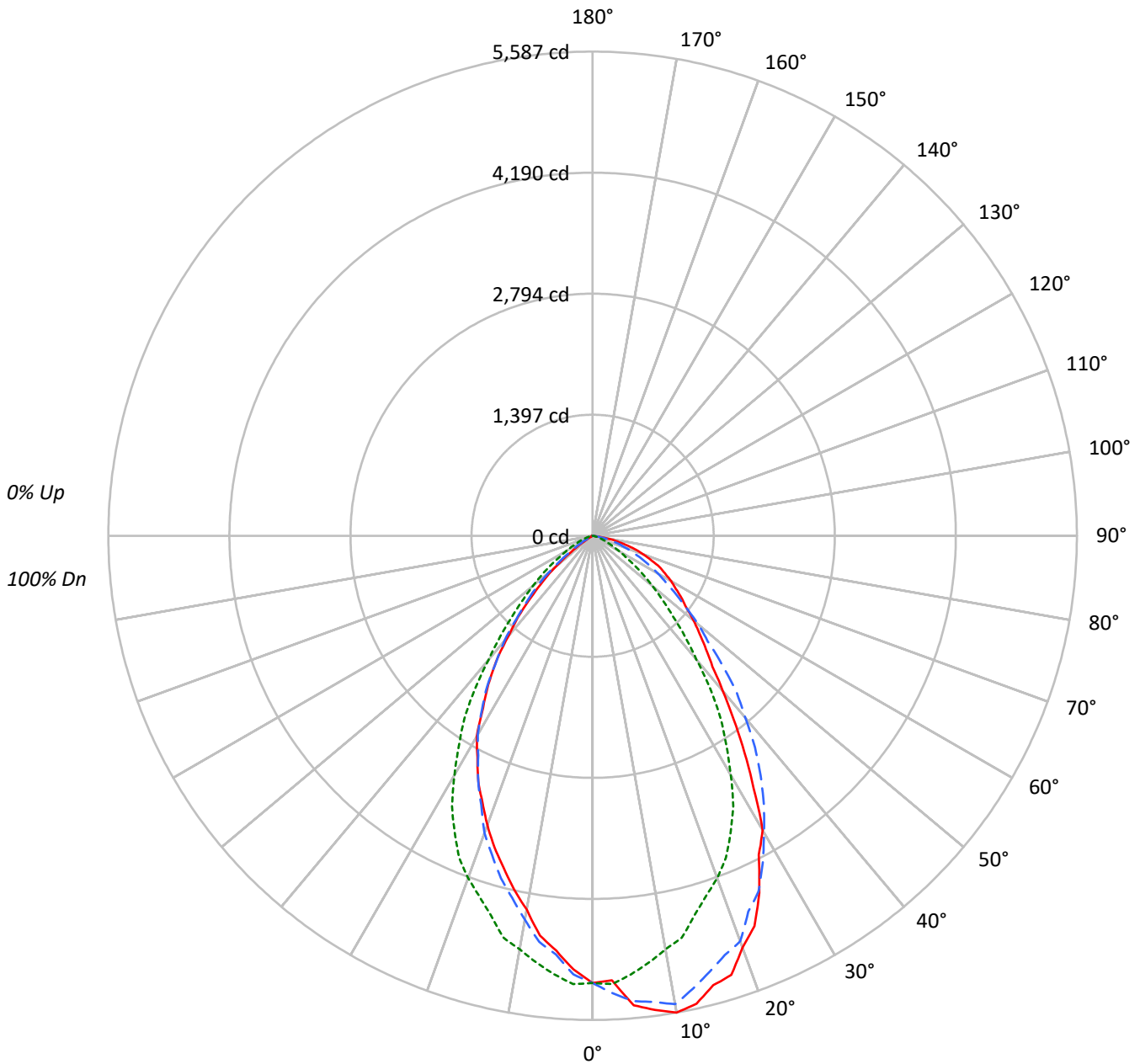
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7396.0 lumens  
Efficiency: N/A  
Efficacy: 76.2 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): 97.1  
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°	497844	497844	497844
5°	526721	491978	465613
10°	547370	474632	429151
15°	536424	452993	396134
20°	519023	431333	364642
25°	484133	401113	332625
30°	437028	354982	297792
35°	359993	303889	247043
40°	293795	234558	190145
45°	252430	178143	136770
50°	228453	135609	86373
55°	210229	97822	31239
60°	201778	66848	4767
65°	194910	45206	1438
70°	174516	31399	1777
75°	143045	16180	0
80°	89405	6890	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	483.4	6.5
10°-20°	1302.4	17.6
20°-30°	1739.2	23.5
30°-40°	1651.0	22.3
40°-50°	1141.2	15.4
50°-60°	630.6	8.5
60°-70°	313.1	4.2
70°-80°	123.4	1.7
80°-90°	11.7	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°	3525.0	47.7
0°-40°	5176.0	70.0
0°-60°	6947.8	93.9
0°-90°	7396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7396.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5160	5160	5160	5160	5160	
5°	5438	5389	5079	4850	4807	521
15°	5370	5209	4535	4090	3966	1519
25°	4547	4529	3768	3124	3124	2073
35°	3056	3378	2580	2122	2097	1915
45°	1850	2122	1306	1070	1002	1443
55°	1250	1176	582	297	186	1125
65°	854	619	198	6	6	829
75°	384	235	43	0	0	409
85°	0	6	0	0	0	35
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°	5159.6	5159.6	5159.6	5159.6	5159.6	5159.6	5159.6	5159.6	5159.6	5159.6	5159.6
2.5°	5134.9	5277.2	5289.5	5277.2	5295.8	5289.5	5320.6	5289.5	5326.9	5271.1	5283.5
5°	5438.1	5382.4	5499.9	5438.1	5438.1	5432.1	5413.4	5407.1	5432.1	5351.6	5388.7
7.5°	5518.6	5599.1	5704.3	5574.3	5580.4	5580.4	5543.3	5531.0	5531.0	5382.4	5425.8
10°	5586.7	5537.0	5592.8	5543.3	5586.7	5580.4	5605.1	5524.6	5580.4	5493.9	5487.6
12.5°	5531.0	5512.3	5586.7	5506.2	5481.5	5487.6	5456.8	5438.1	5456.8	5357.6	5351.6
15°	5370.0	5388.7	5499.9	5413.4	5401.0	5388.7	5351.6	5289.5	5339.2	5203.0	5209.3
17.5°	5314.5	5283.5	5302.1	5227.7	5246.4	5234.0	5227.7	5172.2	5159.6	5073.1	5073.1
20°	5054.7	5122.5	5122.5	5073.1	5073.1	5067.0	4986.6	5036.0	4980.3	4955.5	4980.3
22.5°	4875.1	4881.4	4881.4	4838.0	4844.3	4819.6	4776.2	4745.1	4776.2	4745.1	4695.7
25°	4547.4	4559.7	4633.9	4553.4	4541.1	4565.8	4528.7	4510.0	4504.0	4429.8	4528.7
27.5°	4151.3	4274.9	4268.9	4237.8	4274.9	4225.5	4207.1	4213.1	4231.8	4225.5	4250.2
30°	3922.5	3940.9	3959.6	3934.9	3940.9	3922.5	3922.5	3928.6	3978.0	3959.6	3953.3
32.5°	3458.3	3520.1	3569.8	3569.8	3575.9	3594.5	3588.2	3718.2	3749.2	3687.4	3675.0
35°	3056.2	3099.6	3142.7	3149.0	3229.5	3235.6	3241.9	3279.0	3365.5	3384.2	3377.9
37.5°	2672.8	2715.9	2728.3	2784.0	2827.4	2870.5	2920.2	2969.7	3043.9	3105.7	3074.9
40°	2332.5	2350.9	2381.9	2406.6	2493.2	2493.2	2517.9	2617.0	2697.5	2746.9	2740.6
42.5°	2047.9	2054.0	2078.7	2122.1	2202.5	2183.9	2202.5	2270.6	2388.0	2394.3	2462.4
45°	1849.9	1843.6	1862.2	1868.3	1918.0	1942.7	1955.1	2004.5	2103.4	2115.8	2122.1
47.5°	1670.5	1664.2	1695.2	1707.6	1726.0	1750.7	1750.7	1757.0	1794.1	1825.1	1800.4
50°	1521.9	1521.9	1521.9	1534.3	1565.3	1559.0	1565.3	1590.0	1608.5	1596.1	1590.0
52.5°	1361.0	1385.7	1404.4	1410.7	1416.7	1416.7	1423.0	1410.7	1404.4	1385.7	1348.6
55°	1249.7	1274.5	1274.5	1274.5	1274.5	1299.2	1268.4	1274.5	1274.5	1225.0	1175.6
57.5°	1138.5	1163.2	1181.6	1156.9	1181.6	1156.9	1144.5	1138.5	1125.9	1076.4	1002.3
60°	1045.6	1058.0	1051.7	1045.6	1058.0	1039.3	1027.0	1002.3	989.9	921.8	872.3
62.5°	940.4	946.5	952.8	940.4	928.1	921.8	897.1	860.0	835.3	779.5	736.1
65°	853.7	835.3	829.0	822.9	810.5	791.9	773.4	730.1	711.4	661.9	618.6
67.5°	723.8	717.7	730.1	711.4	680.6	680.6	661.9	624.9	581.5	550.7	507.3
70°	618.6	612.5	600.1	581.5	575.4	550.7	550.7	507.3	494.9	439.2	402.1
72.5°	507.3	507.3	488.6	470.2	451.6	439.2	433.1	402.1	383.7	352.7	321.6
75°	383.7	383.7	377.4	358.7	346.4	334.0	327.9	303.2	284.6	253.8	235.1
77.5°	272.2	272.2	247.5	235.1	241.2	228.8	216.4	210.4	204.1	185.7	160.9
80°	160.9	154.6	136.2	142.3	136.2	136.2	129.9	123.6	111.3	98.9	86.5
82.5°	43.4	49.4	49.4	49.4	55.7	43.4	43.4	43.4	49.4	49.4	31.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	6.3	6.3
87.5°	6.3	12.4	24.7	24.7	24.7	24.7	24.7	18.7	18.7	18.7	12.4
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°	5159.6	5159.6	5159.6	5159.6	5159.6	5159.6	5159.6	5159.6	5159.6	5159.6	5159.6
2.5°	5221.7	5215.4	5221.7	5178.3	5277.2	5203.0	5190.6	5178.3	5221.7	5178.3	5116.5
5°	5332.9	5271.1	5252.5	5234.0	5289.5	5203.0	5184.6	5190.6	5159.6	5079.4	5085.4
7.5°	5370.0	5314.5	5258.8	5141.2	5190.6	5172.2	5122.5	5085.4	5036.0	4967.9	4955.5
10°	5382.4	5320.6	5240.1	5203.0	5128.8	5104.1	5085.4	5023.6	4961.8	4844.3	4813.3
12.5°	5345.3	5271.1	5172.2	5141.2	5085.4	5005.0	4961.8	4899.8	4844.3	4751.4	4683.3
15°	5184.6	5122.5	5091.8	4986.6	4961.8	4912.1	4825.6	4739.1	4658.6	4534.8	4497.7
17.5°	4998.9	4974.2	4943.2	4862.7	4856.6	4807.2	4726.7	4652.3	4547.4	4355.4	4293.6
20°	4807.2	4807.2	4708.1	4677.3	4739.1	4639.9	4578.1	4510.0	4293.6	4200.7	4089.5
22.5°	4664.9	4596.8	4541.1	4491.6	4497.7	4435.9	4349.3	4213.1	4132.6	4021.4	3891.5
25°	4386.4	4411.1	4287.5	4268.9	4287.5	4145.0	4101.9	3990.4	3872.8	3767.6	3668.7
27.5°	4213.1	4145.0	4064.8	3996.7	3996.7	3940.9	3817.3	3792.6	3613.0	3514.1	3390.2
30°	3953.3	3903.8	3835.7	3736.8	3724.5	3681.1	3582.2	3520.1	3334.7	3186.1	3118.0
32.5°	3625.3	3606.9	3551.2	3439.9	3402.8	3353.1	3229.5	3124.3	3037.8	2870.5	2790.3
35°	3390.2	3322.4	3204.8	3112.0	3080.9	2994.4	2895.3	2821.1	2728.3	2579.9	2474.7
37.5°	3037.8	2969.7	2858.2	2746.9	2746.9	2660.4	2524.2	2450.0	2320.1	2233.3	2146.8
40°	2728.3	2641.7	2530.5	2400.6	2381.9	2258.0	2202.5	2078.7	1998.2	1862.2	1849.9
42.5°	2381.9	2301.4	2202.5	2103.4	2029.2	1967.4	1825.1	1732.3	1645.8	1577.7	1559.0
45°	2066.3	1961.1	1874.6	1750.7	1676.6	1602.4	1509.6	1447.8	1379.6	1305.5	1262.1
47.5°	1794.1	1707.6	1583.7	1472.5	1398.3	1361.0	1255.8	1187.9	1132.2	1082.7	1051.7
50°	1515.9	1410.7	1342.6	1218.7	1206.3	1119.8	1033.3	977.5	946.5	903.4	860.0
52.5°	1305.5	1206.3	1113.5	1020.9	971.2	940.4	860.0	804.2	761.1	730.1	705.3
55°	1101.1	1014.6	940.4	847.6	816.6	773.4	680.6	668.3	624.9	581.5	550.7
57.5°	946.5	866.0	779.5	717.7	661.9	631.2	556.8	507.3	482.6	445.5	414.5
60°	804.2	717.7	649.6	575.4	550.7	507.3	451.6	408.4	377.4	346.4	315.6
62.5°	674.3	600.1	526.0	463.9	426.8	402.1	358.7	321.6	290.9	266.1	241.2
65°	556.8	488.6	426.8	365.0	346.4	315.6	284.6	253.8	228.8	198.0	173.3
67.5°	457.9	396.1	334.0	290.9	272.2	259.8	222.8	191.7	173.3	154.6	129.9
70°	358.7	315.6	266.1	228.8	210.4	191.7	167.0	148.6	123.6	111.3	92.8
72.5°	278.5	241.2	198.0	167.0	154.6	142.3	117.6	98.9	86.5	74.2	61.8
75°	198.0	167.0	142.3	111.3	105.2	98.9	80.5	68.1	55.7	43.4	37.1
77.5°	136.2	111.3	86.5	74.2	68.1	55.7	49.4	37.1	31.0	24.7	18.7
80°	74.2	55.7	43.4	37.1	31.0	24.7	24.7	18.7	12.4	12.4	6.3
82.5°	24.7	18.7	12.4	6.3	6.3	6.3	6.3	6.3	6.3	0.0	6.3
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°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	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°	5159.6	5159.6	5159.6	5159.6	5159.6	5159.6	5159.6	5159.6	5159.6	5159.6	5159.6
2.5°	5153.6	5085.4	5104.1	5104.1	5091.8	5091.8	5079.4	5060.7	5067.0	5029.7	4949.5
5°	5097.8	5011.3	4998.9	5011.3	4961.8	4949.5	4924.7	4961.8	4850.3	4893.7	4844.3
7.5°	4937.1	4856.6	4838.0	4881.4	4819.6	4782.2	4776.2	4825.6	4726.7	4677.3	4621.5
10°	4757.5	4726.7	4671.0	4639.9	4621.5	4627.6	4578.1	4516.3	4497.7	4485.3	4435.9
12.5°	4596.8	4528.7	4479.2	4442.2	4429.8	4429.8	4349.3	4337.0	4281.2	4268.9	4194.7
15°	4404.8	4324.6	4293.6	4244.1	4200.7	4225.5	4132.6	4107.9	4089.5	4009.0	4021.4
17.5°	4237.8	4151.3	4077.1	4046.1	4009.0	3971.9	3885.2	3903.8	3860.4	3860.4	3749.2
20°	4021.4	3928.6	3872.8	3811.0	3811.0	3761.6	3699.7	3705.8	3650.1	3594.5	3495.4
22.5°	3792.6	3693.4	3625.3	3600.6	3538.8	3526.4	3452.3	3433.6	3359.4	3365.5	3279.0
25°	3551.2	3452.3	3359.4	3365.5	3310.0	3285.3	3241.9	3155.3	3124.3	3087.2	3062.5
27.5°	3266.6	3198.5	3118.0	3112.0	3006.8	3012.8	2957.3	2932.6	2858.2	2876.9	2821.1
30°	3006.8	2907.9	2833.5	2815.0	2771.7	2759.3	2672.8	2635.4	2648.0	2598.4	2567.6
32.5°	2740.6	2592.3	2561.3	2524.2	2499.5	2468.4	2406.6	2431.3	2375.6	2388.0	2338.5
35°	2388.0	2326.2	2245.7	2245.7	2221.0	2196.2	2153.1	2177.8	2122.1	2097.3	2047.9
37.5°	2091.0	2035.5	1955.1	1979.8	1936.4	1899.3	1862.2	1868.3	1818.8	1812.8	1763.1
40°	1769.4	1738.4	1682.9	1682.9	1651.8	1651.8	1633.2	1614.8	1583.7	1546.6	1490.9
42.5°	1466.2	1441.5	1416.7	1423.0	1379.6	1416.7	1367.3	1398.3	1299.2	1293.1	1255.8
45°	1243.4	1187.9	1194.0	1169.3	1144.5	1156.9	1113.5	1125.9	1070.4	1058.0	1020.9
47.5°	1008.6	989.9	952.8	940.4	940.4	921.8	903.4	897.1	872.3	841.3	791.9
50°	829.0	761.1	748.5	730.1	717.7	717.7	693.0	655.9	661.9	631.2	581.5
52.5°	649.6	593.8	569.1	563.1	538.3	526.0	494.9	470.2	451.6	439.2	408.4
55°	501.0	451.6	420.8	420.8	383.7	383.7	340.3	321.6	296.9	272.2	253.8
57.5°	377.4	352.7	321.6	296.9	284.6	253.8	228.8	198.0	179.4	142.3	117.6
60°	284.6	259.8	228.8	210.4	198.0	167.0	136.2	111.3	68.1	55.7	49.4
62.5°	210.4	185.7	154.6	142.3	129.9	105.2	74.2	37.1	18.7	18.7	18.7
65°	154.6	123.6	98.9	86.5	74.2	55.7	24.7	12.4	6.3	6.3	6.3
67.5°	105.2	80.5	55.7	49.4	37.1	18.7	6.3	6.3	6.3	6.3	6.3
70°	68.1	49.4	24.7	18.7	12.4	6.3	6.3	6.3	6.3	6.3	6.3
72.5°	43.4	24.7	12.4	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	24.7	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.4	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.3	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	6.3	6.3	6.3
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: LD4C90D010 EX4C909030 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5159.6	5159.6	5159.6	5159.6	5159.6	5159.6	5159.6	5159.6
2.5°	5036.0	4992.6	5017.3	4961.8	4986.6	5029.7	4998.9	5011.3
5°	4862.7	4838.0	4807.2	4726.7	4788.5	4838.0	4813.3	4807.2
7.5°	4677.3	4590.5	4633.9	4609.2	4596.8	4646.3	4590.5	4652.3
10°	4485.3	4423.5	4417.4	4374.1	4374.1	4411.1	4417.4	4380.1
12.5°	4200.7	4170.0	4170.0	4163.7	4157.4	4194.7	4200.7	4182.3
15°	3996.7	3984.3	3953.3	3947.2	3910.1	3965.6	3971.9	3965.6
17.5°	3749.2	3755.2	3724.5	3724.5	3749.2	3767.6	3718.2	3767.6
20°	3582.2	3551.2	3538.8	3483.1	3514.1	3545.1	3545.1	3551.2
22.5°	3340.8	3291.3	3310.0	3279.0	3260.3	3303.7	3303.7	3322.4
25°	3068.6	3068.6	3080.9	3062.5	3074.9	3099.6	3080.9	3124.3
27.5°	2808.7	2833.5	2833.5	2808.7	2821.1	2895.3	2926.3	2876.9
30°	2567.6	2573.6	2592.3	2579.9	2617.0	2641.7	2635.4	2672.8
32.5°	2295.4	2326.2	2338.5	2320.1	2332.5	2388.0	2357.2	2350.9
35°	2085.0	2029.2	2023.2	2029.2	2054.0	2066.3	2054.0	2097.3
37.5°	1781.8	1763.1	1738.4	1744.7	1763.1	1788.1	1800.4	1831.2
40°	1490.9	1466.2	1466.2	1460.1	1441.5	1509.6	1509.6	1509.6
42.5°	1237.4	1231.1	1200.3	1200.3	1225.0	1243.4	1231.1	1274.5
45°	1014.6	989.9	971.2	971.2	989.9	989.9	1008.6	1002.3
47.5°	798.2	773.4	779.5	761.1	779.5	804.2	773.4	779.5
50°	600.1	600.1	587.8	600.1	593.8	600.1	587.8	575.4
52.5°	408.4	463.9	470.2	445.5	389.8	340.3	309.3	334.0
55°	235.1	210.4	210.4	204.1	191.7	185.7	167.0	185.7
57.5°	117.6	105.2	105.2	105.2	98.9	92.8	80.5	80.5
60°	49.4	43.4	43.4	37.1	31.0	24.7	18.7	24.7
62.5°	18.7	12.4	12.4	12.4	12.4	12.4	12.4	12.4
65°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
67.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
70°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
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)