

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 EX4C909027 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 EX4C909027 4LBSQLWWLI
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

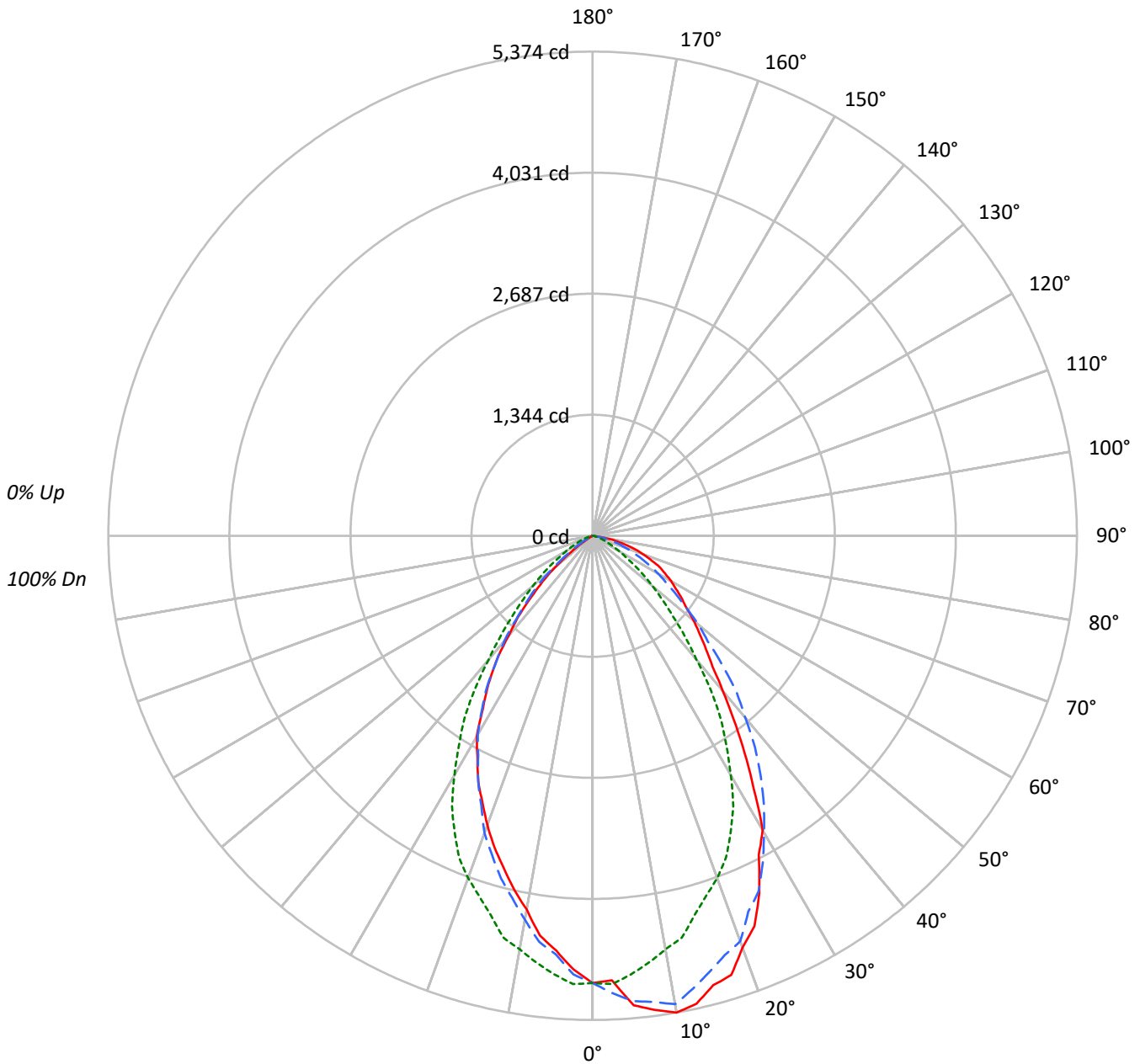
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7114.0 lumens
Efficiency: N/A
Efficacy: 73.3 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): 97.1
Input Voltage (V):
Input Current (A_{in}): 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	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°	478865	478865	478865
5°	506642	473217	447859
10°	526501	456535	412789
15°	515976	435712	381031
20°	499226	414894	350739
25°	465672	385825	319945
30°	420361	341445	286439
35°	346271	292311	237632
40°	282585	225615	182890
45°	242796	171348	131543
50°	219746	130431	83086
55°	202221	94087	30045
60°	194097	64300	4593
65°	187467	43493	1393
70°	167858	30186	1721
75°	137602	15546	0
80°	86016	6612	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.0	6.5
10°-20°	1252.8	17.6
20°-30°	1672.9	23.5
30°-40°	1588.0	22.3
40°-50°	1097.7	15.4
50°-60°	606.5	8.5
60°-70°	301.2	4.2
70°-80°	118.7	1.7
80°-90°	11.3	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°	3390.6	47.7
0°-40°	4978.6	70.0
0°-60°	6682.9	93.9
0°-90°	7114.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7114.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4963	4963	4963	4963	4963	
5°	5231	5183	4886	4665	4624	501
15°	5165	5011	4362	3934	3814	1461
25°	4374	4356	3624	3005	3005	1994
35°	2940	3249	2482	2041	2017	1842
45°	1779	2041	1256	1030	964	1388
55°	1202	1131	559	286	179	1082
65°	821	595	190	6	6	797
75°	369	226	42	0	0	393
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°	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9
2.5°	4939.1	5076.0	5087.9	5076.0	5093.9	5087.9	5117.7	5087.9	5123.8	5070.1	5082.0
5°	5230.8	5177.1	5290.2	5230.8	5230.8	5224.9	5207.0	5200.9	5224.9	5147.5	5183.2
7.5°	5308.2	5385.6	5486.8	5361.8	5367.6	5367.6	5332.0	5320.1	5320.1	5177.1	5218.9
10°	5373.7	5325.9	5379.5	5332.0	5373.7	5367.6	5391.4	5314.0	5367.6	5284.4	5278.3
12.5°	5320.1	5302.1	5373.7	5296.3	5272.5	5278.3	5248.7	5230.8	5248.7	5153.4	5147.5
15°	5165.3	5183.2	5290.2	5207.0	5195.1	5183.2	5147.5	5087.9	5135.6	5004.6	5010.7
17.5°	5111.9	5082.0	5100.0	5028.4	5046.4	5034.5	5028.4	4975.0	4962.9	4879.7	4879.7
20°	4861.9	4927.2	4927.2	4879.7	4879.7	4873.8	4796.4	4844.0	4790.4	4766.6	4790.4
22.5°	4689.2	4695.2	4695.2	4653.5	4659.6	4635.8	4594.1	4564.2	4594.1	4564.2	4516.7
25°	4374.0	4385.9	4457.2	4379.8	4367.9	4391.7	4356.0	4338.1	4332.2	4260.9	4356.0
27.5°	3993.0	4111.9	4106.1	4076.3	4111.9	4064.4	4046.6	4052.5	4070.4	4064.4	4088.1
30°	3772.9	3790.7	3808.6	3784.8	3790.7	3772.9	3772.9	3778.8	3826.3	3808.6	3802.5
32.5°	3326.5	3385.9	3433.7	3433.7	3439.5	3457.5	3451.4	3576.4	3606.2	3546.8	3534.9
35°	2939.7	2981.4	3022.9	3029.0	3106.4	3112.2	3118.3	3153.9	3237.2	3255.1	3249.1
37.5°	2570.9	2612.4	2624.2	2677.9	2719.6	2761.1	2808.9	2856.5	2927.8	2987.2	2957.6
40°	2243.5	2261.2	2291.1	2314.9	2398.1	2398.1	2421.9	2517.2	2594.6	2642.2	2636.1
42.5°	1969.8	1975.6	1999.4	2041.2	2118.6	2100.6	2118.6	2184.1	2296.9	2303.0	2368.5
45°	1779.3	1773.3	1791.2	1797.1	1844.9	1868.6	1880.5	1928.1	2023.2	2035.1	2041.2
47.5°	1606.8	1600.8	1630.6	1642.5	1660.2	1684.0	1684.0	1690.0	1725.7	1755.6	1731.8
50°	1463.9	1463.9	1463.9	1475.8	1505.6	1499.6	1505.6	1529.4	1547.1	1535.2	1529.4
52.5°	1309.1	1332.9	1350.8	1356.9	1362.7	1362.7	1368.8	1356.9	1350.8	1332.9	1297.2
55°	1202.1	1225.9	1225.9	1225.9	1225.9	1249.6	1220.0	1225.9	1225.9	1178.3	1130.7
57.5°	1095.1	1118.8	1136.6	1112.8	1136.6	1112.8	1100.9	1095.1	1082.9	1035.4	964.0
60°	1005.8	1017.7	1011.6	1005.8	1017.7	999.7	987.8	964.0	952.2	886.6	839.1
62.5°	904.6	910.4	916.5	904.6	892.7	886.6	862.9	827.2	803.4	749.8	708.1
65°	821.1	803.4	797.3	791.5	779.6	761.7	744.0	702.2	684.3	636.7	595.0
67.5°	696.2	690.3	702.2	684.3	654.7	654.7	636.7	601.0	559.3	529.7	488.0
70°	595.0	589.1	577.3	559.3	553.5	529.7	529.7	488.0	476.1	422.5	386.8
72.5°	488.0	488.0	470.0	452.3	434.3	422.5	416.6	386.8	369.1	339.2	309.4
75°	369.1	369.1	363.0	345.0	333.2	321.3	315.4	291.7	273.7	244.1	226.1
77.5°	261.8	261.8	238.0	226.1	232.0	220.1	208.2	202.4	196.3	178.6	154.8
80°	154.8	148.7	131.0	136.9	131.0	131.0	125.0	118.9	107.0	95.1	83.2
82.5°	41.7	47.6	47.6	47.6	53.6	41.7	41.7	41.7	47.6	47.6	29.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	6.1	6.1
87.5°	6.1	11.9	23.8	23.8	23.8	23.8	23.8	18.0	18.0	18.0	11.9
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°	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9
2.5°	5022.6	5016.5	5022.6	4980.8	5076.0	5004.6	4992.7	4980.8	5022.6	4980.8	4921.4
5°	5129.6	5070.1	5052.2	5034.5	5087.9	5004.6	4986.9	4992.7	4962.9	4885.7	4891.5
7.5°	5165.3	5111.9	5058.2	4945.2	4992.7	4975.0	4927.2	4891.5	4844.0	4778.5	4766.6
10°	5177.1	5117.7	5040.3	5004.6	4933.3	4909.5	4891.5	4832.1	4772.6	4659.6	4629.7
12.5°	5141.5	5070.1	4975.0	4945.2	4891.5	4814.1	4772.6	4713.0	4659.6	4570.3	4504.8
15°	4986.9	4927.2	4897.6	4796.4	4772.6	4724.9	4641.6	4558.4	4481.0	4361.8	4326.2
17.5°	4808.3	4784.5	4754.7	4677.3	4671.5	4623.9	4546.5	4474.9	4374.0	4189.3	4129.9
20°	4623.9	4623.9	4528.5	4498.9	4558.4	4463.0	4403.6	4338.1	4129.9	4040.6	3933.6
22.5°	4487.0	4421.5	4367.9	4320.4	4326.2	4266.7	4183.5	4052.5	3975.1	3868.1	3743.1
25°	4219.2	4242.9	4124.0	4106.1	4124.0	3987.0	3945.5	3838.2	3725.1	3624.0	3528.8
27.5°	4052.5	3987.0	3909.8	3844.3	3844.3	3790.7	3671.7	3648.0	3475.2	3380.1	3261.0
30°	3802.5	3755.0	3689.5	3594.3	3582.5	3540.7	3445.6	3385.9	3207.6	3064.6	2999.1
32.5°	3487.1	3469.4	3415.8	3308.7	3273.1	3225.3	3106.4	3005.2	2922.0	2761.1	2683.9
35°	3261.0	3195.7	3082.6	2993.3	2963.5	2880.2	2784.9	2713.5	2624.2	2481.6	2380.4
37.5°	2922.0	2856.5	2749.2	2642.2	2642.2	2559.0	2427.9	2356.6	2231.6	2148.2	2064.9
40°	2624.2	2541.0	2434.0	2309.0	2291.1	2171.9	2118.6	1999.4	1922.0	1791.2	1779.3
42.5°	2291.1	2213.7	2118.6	2023.2	1951.9	1892.4	1755.6	1666.3	1583.0	1517.5	1499.6
45°	1987.5	1886.4	1803.1	1684.0	1612.6	1541.3	1452.0	1392.6	1327.0	1255.7	1214.0
47.5°	1725.7	1642.5	1523.3	1416.3	1345.0	1309.1	1207.9	1142.6	1089.0	1041.4	1011.6
50°	1458.1	1356.9	1291.4	1172.2	1160.3	1077.1	993.9	940.3	910.4	868.9	827.2
52.5°	1255.7	1160.3	1071.1	982.0	934.2	904.6	827.2	773.6	732.1	702.2	678.4
55°	1059.2	975.9	904.6	815.3	785.5	744.0	654.7	642.8	601.0	559.3	529.7
57.5°	910.4	833.0	749.8	690.3	636.7	607.1	535.5	488.0	464.2	428.5	398.7
60°	773.6	690.3	624.8	553.5	529.7	488.0	434.3	392.8	363.0	333.2	303.6
62.5°	648.6	577.3	505.9	446.2	410.6	386.8	345.0	309.4	279.8	256.0	232.0
65°	535.5	470.0	410.6	351.1	333.2	303.6	273.7	244.1	220.1	190.5	166.7
67.5°	440.4	381.0	321.3	279.8	261.8	249.9	214.3	184.4	166.7	148.7	125.0
70°	345.0	303.6	256.0	220.1	202.4	184.4	160.6	142.9	118.9	107.0	89.3
72.5°	267.9	232.0	190.5	160.6	148.7	136.9	113.1	95.1	83.2	71.3	59.5
75°	190.5	160.6	136.9	107.0	101.2	95.1	77.4	65.5	53.6	41.7	35.7
77.5°	131.0	107.0	83.2	71.3	65.5	53.6	47.6	35.7	29.8	23.8	18.0
80°	71.3	53.6	41.7	35.7	29.8	23.8	23.8	18.0	11.9	11.9	6.1
82.5°	23.8	18.0	11.9	6.1	6.1	6.1	6.1	6.1	6.1	0.0	6.1
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°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	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°	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9
2.5°	4957.1	4891.5	4909.5	4909.5	4897.6	4897.6	4885.7	4867.8	4873.8	4837.9	4760.8
5°	4903.4	4820.2	4808.3	4820.2	4772.6	4760.8	4737.0	4772.6	4665.4	4707.1	4659.6
7.5°	4748.9	4671.5	4653.5	4695.2	4635.8	4599.9	4594.1	4641.6	4546.5	4498.9	4445.3
10°	4576.1	4546.5	4492.9	4463.0	4445.3	4451.1	4403.6	4344.1	4326.2	4314.3	4266.7
12.5°	4421.5	4356.0	4308.5	4272.8	4260.9	4260.9	4183.5	4171.6	4118.0	4106.1	4034.8
15°	4236.9	4159.7	4129.9	4082.3	4040.6	4064.4	3975.1	3951.3	3933.6	3856.2	3868.1
17.5°	4076.3	3993.0	3921.7	3891.8	3856.2	3820.5	3737.0	3755.0	3713.2	3713.2	3606.2
20°	3868.1	3778.8	3725.1	3665.7	3665.7	3618.1	3558.7	3564.5	3510.9	3457.5	3362.1
22.5°	3648.0	3552.6	3487.1	3463.3	3403.9	3392.0	3320.6	3302.7	3231.3	3237.2	3153.9
25°	3415.8	3320.6	3231.3	3237.2	3183.8	3160.0	3118.3	3035.0	3005.2	2969.5	2945.7
27.5°	3142.1	3076.5	2999.1	2993.3	2892.1	2898.0	2844.6	2820.8	2749.2	2767.2	2713.5
30°	2892.1	2797.0	2725.4	2707.7	2666.0	2654.1	2570.9	2535.0	2547.1	2499.3	2469.7
32.5°	2636.1	2493.5	2463.6	2427.9	2404.2	2374.3	2314.9	2338.6	2285.0	2296.9	2249.4
35°	2296.9	2237.5	2160.1	2160.1	2136.3	2112.5	2071.0	2094.8	2041.2	2017.4	1969.8
37.5°	2011.3	1957.9	1880.5	1904.3	1862.6	1826.9	1791.2	1797.1	1749.5	1743.7	1695.9
40°	1701.9	1672.1	1618.7	1618.7	1588.9	1588.9	1570.9	1553.2	1523.3	1487.7	1434.1
42.5°	1410.3	1386.5	1362.7	1368.8	1327.0	1362.7	1315.2	1345.0	1249.6	1243.8	1207.9
45°	1196.0	1142.6	1148.5	1124.7	1100.9	1112.8	1071.1	1082.9	1029.6	1017.7	982.0
47.5°	970.1	952.2	916.5	904.6	904.6	886.6	868.9	862.9	839.1	809.2	761.7
50°	797.3	732.1	719.9	702.2	690.3	690.3	666.6	630.9	636.7	607.1	559.3
52.5°	624.8	571.2	547.4	541.6	517.8	505.9	476.1	452.3	434.3	422.5	392.8
55°	481.9	434.3	404.7	404.7	369.1	369.1	327.3	309.4	285.6	261.8	244.1
57.5°	363.0	339.2	309.4	285.6	273.7	244.1	220.1	190.5	172.5	136.9	113.1
60°	273.7	249.9	220.1	202.4	190.5	160.6	131.0	107.0	65.5	53.6	47.6
62.5°	202.4	178.6	148.7	136.9	125.0	101.2	71.3	35.7	18.0	18.0	18.0
65°	148.7	118.9	95.1	83.2	71.3	53.6	23.8	11.9	6.1	6.1	6.1
67.5°	101.2	77.4	53.6	47.6	35.7	18.0	6.1	6.1	6.1	6.1	6.1
70°	65.5	47.6	23.8	18.0	11.9	6.1	6.1	6.1	6.1	6.1	6.1
72.5°	41.7	23.8	11.9	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	23.8	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.9	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.1	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	6.1	6.1	6.1
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 EX4C909027 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9
2.5°	4844.0	4802.3	4826.0	4772.6	4796.4	4837.9	4808.3	4820.2
5°	4677.3	4653.5	4623.9	4546.5	4605.9	4653.5	4629.7	4623.9
7.5°	4498.9	4415.5	4457.2	4433.4	4421.5	4469.1	4415.5	4474.9
10°	4314.3	4254.8	4249.0	4207.3	4207.3	4242.9	4249.0	4213.1
12.5°	4040.6	4011.0	4011.0	4004.9	3998.8	4034.8	4040.6	4022.9
15°	3844.3	3832.4	3802.5	3796.7	3761.0	3814.4	3820.5	3814.4
17.5°	3606.2	3612.1	3582.5	3582.5	3606.2	3624.0	3576.4	3624.0
20°	3445.6	3415.8	3403.9	3350.2	3380.1	3409.9	3409.9	3415.8
22.5°	3213.4	3165.8	3183.8	3153.9	3136.0	3177.7	3177.7	3195.7
25°	2951.6	2951.6	2963.5	2945.7	2957.6	2981.4	2963.5	3005.2
27.5°	2701.6	2725.4	2725.4	2701.6	2713.5	2784.9	2814.7	2767.2
30°	2469.7	2475.5	2493.5	2481.6	2517.2	2541.0	2535.0	2570.9
32.5°	2207.9	2237.5	2249.4	2231.6	2243.5	2296.9	2267.3	2261.2
35°	2005.5	1951.9	1946.0	1951.9	1975.6	1987.5	1975.6	2017.4
37.5°	1713.8	1695.9	1672.1	1678.2	1695.9	1719.9	1731.8	1761.4
40°	1434.1	1410.3	1410.3	1404.4	1386.5	1452.0	1452.0	1452.0
42.5°	1190.2	1184.1	1154.5	1154.5	1178.3	1196.0	1184.1	1225.9
45°	975.9	952.2	934.2	934.2	952.2	952.2	970.1	964.0
47.5°	767.7	744.0	749.8	732.1	749.8	773.6	744.0	749.8
50°	577.3	577.3	565.4	577.3	571.2	577.3	565.4	553.5
52.5°	392.8	446.2	452.3	428.5	374.9	327.3	297.5	321.3
55°	226.1	202.4	202.4	196.3	184.4	178.6	160.6	178.6
57.5°	113.1	101.2	101.2	101.2	95.1	89.3	77.4	77.4
60°	47.6	41.7	41.7	35.7	29.8	23.8	18.0	23.8
62.5°	18.0	11.9	11.9	11.9	11.9	11.9	11.9	11.9
65°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
67.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
70°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
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)