

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: P859578

Luminaire Tested: **LX4C75D010 EX4C759035 4LBSWNH**

Issue Date: 2/18/2022

Test Information

Test Method: LM-79-08
Report Number: P859578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C75D010 EX4C759035 4LBSWNH
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

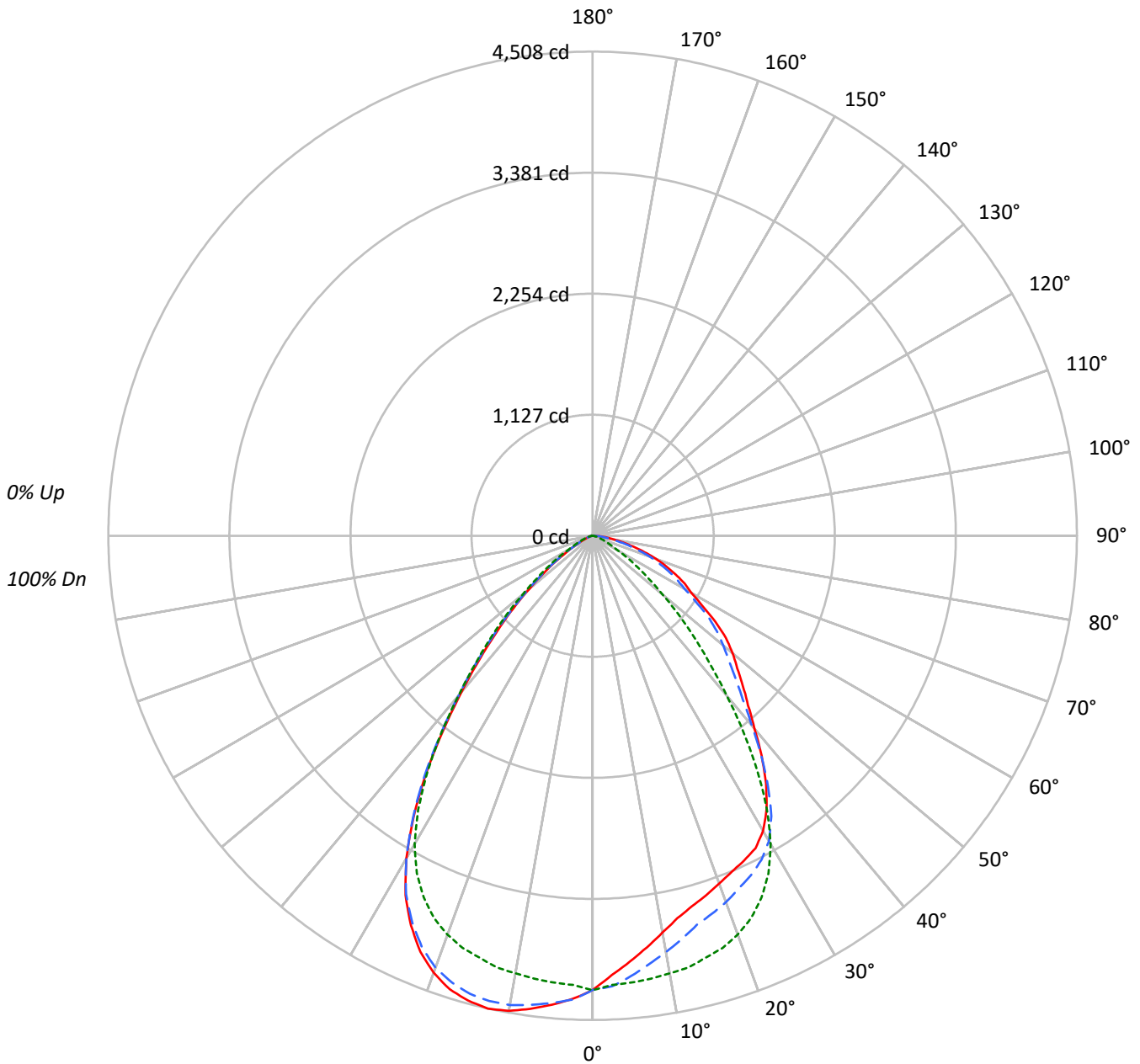
Lumens per Lamp: N/A
Luminaire Lumens: 7415.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 81.5
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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70	70	70	70
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62	62	62	62
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56	56	56	56
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50	50	50	50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46	46	46	46
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42	42	42	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38	38
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	519682	519682	519682
5°	490738	514959	540487
10°	467857	516135	560334
15°	454122	517232	569901
20°	450405	516689	565860
25°	452221	503948	542364
30°	450062	470163	491811
35°	421854	401427	405506
40°	375900	311237	304245
45°	343781	232031	217819
50°	325048	162553	146900
55°	298921	109750	92230
60°	261162	64277	50886
65°	247237	41192	28517
70°	225218	29383	17637
75°	186308	20696	13006
80°	146520	11674	7712
85°	130669	7894	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.7	5.4
10°-20°	1146.6	15.5
20°-30°	1699.7	22.9
30°-40°	1702.1	23.0
40°-50°	1189.6	16.0
50°-60°	707.8	9.5
60°-70°	369.4	5.0
70°-80°	164.3	2.2
80°-90°	35.8	0.5
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°	3246.0	43.8
0°-40°	4948.1	66.7
0°-60°	6845.5	92.3
0°-90°	7415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7415.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4230	4230	4230	4230	4230	
5°	3979	4116	4176	4366	4383	373
15°	3570	3750	4067	4415	4481	1011
25°	3336	3489	3718	3974	4001	1537
35°	2813	2846	2677	2726	2704	1744
45°	1979	1881	1336	1292	1254	1536
55°	1396	1308	512	447	431	1238
65°	850	780	142	104	98	841
75°	392	343	44	27	27	424
85°	93	71	6	6	0	104
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°	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1
2.5°	4093.8	4143.0	4093.8	4110.3	4175.7	4115.6	4148.3	4148.3	4132.1	4170.1	4197.5
5°	3979.3	4028.4	3979.3	4001.1	4072.0	4012.0	4050.2	4039.3	4044.9	4077.6	4115.6
7.5°	3865.0	3903.0	3859.4	3886.8	3952.1	3903.0	3935.7	3935.7	3941.2	3990.2	4023.1
10°	3750.4	3783.1	3750.4	3772.2	3843.2	3799.6	3821.4	3826.7	3843.2	3886.8	3935.7
12.5°	3646.8	3674.1	3641.4	3674.1	3734.0	3690.4	3717.7	3723.1	3739.5	3788.7	3843.2
15°	3570.5	3597.8	3565.2	3592.3	3646.8	3614.1	3635.9	3646.8	3657.7	3701.3	3750.4
17.5°	3510.7	3532.5	3505.1	3537.8	3581.4	3543.4	3576.1	3576.1	3592.3	3635.9	3690.4
20°	3445.1	3466.9	3445.1	3472.4	3521.6	3488.9	3516.0	3516.0	3532.5	3581.4	3630.5
22.5°	3385.2	3396.1	3385.2	3407.0	3456.0	3428.8	3445.1	3450.6	3466.9	3510.7	3554.3
25°	3336.1	3357.9	3347.0	3368.8	3401.5	3374.3	3390.6	3396.1	3412.4	3450.6	3488.9
27.5°	3281.6	3292.5	3281.6	3308.9	3336.1	3314.3	3330.7	3325.2	3336.1	3368.8	3401.5
30°	3172.6	3183.5	3183.5	3199.7	3221.8	3210.9	3227.1	3210.9	3221.8	3248.9	3281.6
32.5°	3014.5	3020.0	3025.4	3041.8	3058.1	3041.8	3052.7	3052.7	3052.7	3074.5	3096.3
35°	2812.8	2823.7	2818.3	2829.2	2845.5	2840.1	2840.1	2834.6	2823.7	2834.6	2845.5
37.5°	2583.9	2567.4	2567.4	2583.9	2594.8	2573.0	2583.9	2573.0	2573.0	2578.3	2578.3
40°	2343.9	2327.7	2343.9	2349.5	2354.8	2343.9	2338.6	2327.7	2311.2	2316.8	2305.9
42.5°	2142.4	2131.3	2136.9	2136.9	2142.4	2131.3	2136.9	2115.1	2098.6	2087.7	2071.5
45°	1978.7	1962.5	1978.7	1967.8	1967.8	1962.5	1956.9	1946.0	1924.3	1908.0	1880.7
47.5°	1826.2	1826.2	1831.5	1831.5	1831.5	1820.6	1820.6	1798.8	1777.0	1755.2	1717.2
50°	1700.7	1689.8	1711.6	1711.6	1695.4	1689.8	1695.4	1668.0	1651.8	1624.4	1586.2
52.5°	1564.4	1564.4	1570.0	1570.0	1564.4	1553.5	1559.1	1537.3	1520.8	1493.7	1455.4
55°	1395.6	1384.7	1400.9	1400.9	1395.6	1390.0	1395.6	1379.1	1362.9	1341.1	1308.2
57.5°	1204.8	1199.2	1210.1	1215.7	1204.8	1204.8	1210.1	1193.9	1188.3	1166.5	1133.8
60°	1062.9	1057.5	1068.4	1074.0	1062.9	1062.9	1062.9	1041.1	1030.2	1008.4	986.6
62.5°	964.8	959.5	970.4	964.8	959.5	953.9	959.5	937.7	926.8	905.0	883.2
65°	850.5	855.8	861.4	861.4	855.8	850.5	850.5	839.6	828.7	806.9	779.5
67.5°	741.3	741.3	746.8	752.2	746.8	746.8	746.8	730.4	719.5	703.2	670.5
70°	627.0	621.4	637.9	637.9	627.0	632.3	627.0	621.4	610.5	588.7	561.6
72.5°	506.9	506.9	512.4	512.4	506.9	506.9	506.9	501.5	485.1	474.2	447.0
75°	392.5	392.5	397.9	403.4	392.5	392.5	397.9	387.0	376.1	359.8	343.4
77.5°	294.5	288.9	294.5	294.5	288.9	288.9	288.9	283.6	278.0	261.6	245.3
80°	207.1	201.7	207.1	207.1	207.1	201.7	201.7	196.2	196.2	185.3	169.0
82.5°	141.7	136.3	141.7	141.7	141.7	136.3	136.3	136.3	130.8	125.4	114.5
85°	92.7	87.2	87.2	92.7	87.2	87.2	87.2	87.2	81.8	76.3	70.9
87.5°	43.6	43.6	43.6	43.6	43.6	43.6	43.6	38.2	38.2	38.2	32.7
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°	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1
2.5°	4175.7	4164.8	4197.5	4186.6	4191.9	4164.8	4208.4	4186.6	4213.7	4186.6	4241.0
5°	4104.7	4093.8	4143.0	4137.4	4143.0	4121.2	4170.1	4164.8	4197.5	4175.7	4235.5
7.5°	4028.4	4017.5	4072.0	4077.6	4088.5	4066.7	4132.1	4132.1	4164.8	4159.2	4224.6
10°	3941.2	3946.6	4001.1	4012.0	4034.0	4023.1	4082.9	4099.4	4143.0	4137.4	4219.3
12.5°	3859.4	3859.4	3930.3	3952.1	3968.4	3963.0	4034.0	4055.8	4104.7	4115.6	4191.9
15°	3777.8	3783.1	3848.5	3881.2	3903.0	3897.7	3973.9	4001.1	4061.1	4066.7	4159.2
17.5°	3712.2	3706.8	3777.8	3804.9	3837.6	3832.3	3913.9	3946.6	4006.6	4023.1	4110.3
20°	3657.7	3652.3	3717.7	3750.4	3772.2	3766.9	3848.5	3886.8	3941.2	3952.1	4039.3
22.5°	3592.3	3581.4	3646.8	3674.1	3695.9	3690.4	3761.3	3788.7	3843.2	3854.1	3935.7
25°	3516.0	3505.1	3565.2	3581.4	3597.8	3587.0	3646.8	3663.2	3706.8	3717.7	3799.6
27.5°	3428.8	3401.5	3450.6	3450.6	3461.5	3445.1	3488.9	3505.1	3543.4	3543.4	3619.6
30°	3292.5	3254.5	3281.6	3276.2	3281.6	3259.8	3287.1	3292.5	3319.8	3314.3	3368.8
32.5°	3101.7	3047.2	3063.6	3047.2	3030.9	2998.2	3030.9	3020.0	3041.8	3020.0	3069.0
35°	2840.1	2785.6	2780.1	2758.3	2742.0	2714.7	2714.7	2687.5	2692.9	2676.6	2709.3
37.5°	2556.6	2485.8	2474.9	2431.3	2404.0	2371.3	2371.3	2349.5	2322.1	2311.2	2338.6
40°	2278.5	2202.3	2175.1	2104.2	2076.8	2044.1	2022.3	1995.2	1984.3	1940.7	1962.5
42.5°	2038.8	1956.9	1897.1	1820.6	1793.5	1744.3	1711.6	1678.9	1662.7	1613.6	1635.3
45°	1837.1	1739.0	1673.6	1575.3	1537.3	1482.8	1433.6	1395.6	1357.3	1335.5	1324.6
47.5°	1668.0	1564.4	1477.2	1368.2	1308.2	1259.3	1193.9	1155.6	1106.7	1079.3	1062.9
50°	1526.4	1411.8	1313.7	1188.3	1128.5	1074.0	997.5	937.7	894.1	850.5	839.6
52.5°	1400.9	1281.1	1172.1	1030.2	959.5	894.1	812.2	746.8	708.6	659.7	654.1
55°	1253.7	1150.3	1030.2	883.2	812.2	746.8	659.7	594.3	545.1	512.4	501.5
57.5°	1095.8	997.5	883.2	735.9	665.0	594.3	512.4	452.4	408.8	381.6	376.1
60°	948.6	855.8	746.8	599.6	528.7	468.8	381.6	321.6	283.6	261.6	250.7
62.5°	839.6	752.2	648.8	512.4	447.0	387.0	305.4	250.7	218.0	196.2	185.3
65°	735.9	648.8	556.0	430.6	376.1	321.6	245.3	196.2	163.5	141.7	130.8
67.5°	627.0	550.7	463.3	359.8	305.4	261.6	196.2	152.6	125.4	109.0	98.1
70°	517.8	447.0	376.1	288.9	250.7	207.1	152.6	119.9	92.7	81.8	70.9
72.5°	408.8	354.3	294.5	223.5	190.8	163.5	119.9	87.2	70.9	60.0	49.1
75°	305.4	267.1	218.0	169.0	141.7	119.9	87.2	65.4	54.5	43.6	38.2
77.5°	218.0	185.3	152.6	114.5	103.6	87.2	60.0	49.1	38.2	27.4	21.8
80°	147.2	130.8	103.6	81.8	65.4	60.0	43.6	32.7	21.8	16.5	16.5
82.5°	98.1	81.8	65.4	49.1	43.6	38.2	27.4	21.8	16.5	10.9	10.9
85°	60.0	49.1	38.2	27.4	27.4	21.8	16.5	10.9	5.6	5.6	5.6
87.5°	27.4	21.8	16.5	10.9	10.9	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1
2.5°	4284.6	4251.9	4230.1	4257.3	4268.2	4251.9	4268.2	4295.5	4322.9	4328.2	4251.9
5°	4290.2	4257.3	4246.4	4279.1	4284.6	4279.1	4295.5	4333.8	4366.5	4377.4	4301.1
7.5°	4290.2	4268.2	4262.8	4301.1	4306.4	4301.1	4328.2	4371.8	4404.5	4426.3	4350.0
10°	4279.1	4268.2	4273.7	4306.4	4317.3	4317.3	4355.6	4404.5	4437.2	4459.0	4382.7
12.5°	4262.8	4262.8	4262.8	4301.1	4312.0	4317.3	4350.0	4415.4	4437.2	4469.9	4393.6
15°	4235.5	4235.5	4235.5	4273.7	4290.2	4290.2	4328.2	4388.3	4415.4	4448.1	4371.8
17.5°	4186.6	4186.6	4191.9	4224.6	4241.0	4241.0	4279.1	4344.7	4360.9	4399.2	4322.9
20°	4115.6	4115.6	4121.2	4153.9	4170.1	4159.2	4208.4	4262.8	4279.1	4312.0	4235.5
22.5°	4012.0	4012.0	4012.0	4044.9	4055.8	4050.2	4099.4	4148.3	4148.3	4191.9	4110.3
25°	3859.4	3870.3	3859.4	3892.1	3903.0	3897.7	3941.2	3984.8	3973.9	4023.1	3941.2
27.5°	3674.1	3668.6	3668.6	3695.9	3695.9	3690.4	3723.1	3772.2	3761.3	3794.0	3717.7
30°	3417.9	3434.2	3407.0	3445.1	3428.8	3417.9	3439.7	3483.3	3466.9	3494.2	3434.2
32.5°	3123.5	3101.7	3101.7	3101.7	3112.6	3085.4	3107.2	3129.0	3112.6	3139.9	3074.5
35°	2736.5	2742.0	2725.6	2731.1	2736.5	2703.8	2725.6	2747.4	2725.6	2742.0	2682.0
37.5°	2349.5	2354.8	2316.8	2338.6	2316.8	2305.9	2327.7	2338.6	2316.8	2333.0	2267.6
40°	1962.5	1951.6	1946.0	1946.0	1951.6	1924.3	1940.7	1956.9	1940.7	1951.6	1891.6
42.5°	1624.4	1619.1	1608.2	1613.6	1597.1	1591.8	1597.1	1613.6	1597.1	1608.2	1564.4
45°	1330.0	1319.1	1302.8	1308.2	1308.2	1281.1	1297.3	1308.2	1292.0	1297.3	1259.3
47.5°	1057.5	1041.1	1041.1	1035.7	1035.7	1024.8	1041.1	1035.7	1019.3	1030.2	992.1
50°	823.1	812.2	812.2	812.2	812.2	795.8	801.3	812.2	795.8	795.8	774.0
52.5°	643.2	627.0	616.1	616.1	616.1	610.5	610.5	616.1	599.6	599.6	594.3
55°	485.1	479.7	463.3	463.3	463.3	447.0	452.4	452.4	447.0	447.0	430.6
57.5°	359.8	343.4	332.5	332.5	321.6	321.6	316.3	321.6	310.7	310.7	299.8
60°	239.8	228.9	223.5	218.0	218.0	212.6	218.0	212.6	212.6	207.1	201.7
62.5°	174.4	163.5	152.6	152.6	152.6	147.2	147.2	147.2	147.2	147.2	141.7
65°	125.4	114.5	114.5	109.0	109.0	103.6	103.6	103.6	103.6	103.6	98.1
67.5°	87.2	81.8	76.3	76.3	76.3	76.3	76.3	76.3	70.9	70.9	70.9
70°	65.4	60.0	54.5	54.5	54.5	54.5	54.5	49.1	54.5	54.5	49.1
72.5°	43.6	43.6	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
75°	32.7	32.7	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
77.5°	21.8	21.8	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
80°	16.5	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
82.5°	10.9	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
85°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	0.0
87.5°	0.0	0.0	0.0	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	0.0	0.0	0.0



TEST NUMBER: P859578

CATALOG NUMBER: LX4C75D010 EX4C759035 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1
2.5°	4333.8	4328.2	4317.3	4333.8	4290.2	4273.7	4268.2	4317.3
5°	4393.6	4382.7	4382.7	4399.2	4350.0	4339.1	4328.2	4382.7
7.5°	4448.1	4437.2	4437.2	4453.7	4410.1	4399.2	4388.3	4442.8
10°	4480.8	4480.8	4480.8	4491.7	4453.7	4442.8	4437.2	4491.7
12.5°	4497.3	4497.3	4491.7	4513.5	4464.6	4464.6	4453.7	4508.2
15°	4475.5	4475.5	4475.5	4491.7	4448.1	4437.2	4437.2	4480.8
17.5°	4421.0	4421.0	4415.4	4431.9	4382.7	4382.7	4377.4	4426.3
20°	4339.1	4339.1	4328.2	4350.0	4301.1	4284.6	4279.1	4328.2
22.5°	4208.4	4202.8	4197.5	4208.4	4164.8	4153.9	4148.3	4191.9
25°	4039.3	4034.0	4023.1	4034.0	3984.8	3968.4	3968.4	4001.1
27.5°	3799.6	3799.6	3783.1	3799.6	3744.9	3739.5	3734.0	3772.2
30°	3505.1	3483.3	3472.4	3494.2	3439.7	3439.7	3428.8	3466.9
32.5°	3139.9	3118.1	3112.6	3123.5	3074.5	3058.1	3079.9	3101.7
35°	2720.2	2725.6	2703.8	2703.8	2660.2	2665.5	2671.1	2703.8
37.5°	2316.8	2305.9	2300.3	2305.9	2273.2	2262.3	2251.4	2284.1
40°	1940.7	1913.4	1908.0	1908.0	1880.7	1875.3	1880.7	1897.1
42.5°	1586.2	1580.9	1559.1	1570.0	1542.6	1553.5	1548.2	1548.2
45°	1281.1	1286.4	1264.6	1281.1	1259.3	1242.8	1242.8	1253.7
47.5°	1013.9	1013.9	1008.4	1008.4	992.1	997.5	986.6	1003.0
50°	784.9	784.9	774.0	779.5	768.6	768.6	763.1	768.6
52.5°	599.6	594.3	594.3	588.7	577.8	583.4	588.7	577.8
55°	436.1	441.5	430.6	436.1	425.2	430.6	425.2	430.6
57.5°	299.8	305.4	294.5	305.4	294.5	299.8	294.5	294.5
60°	207.1	207.1	201.7	207.1	201.7	201.7	196.2	207.1
62.5°	141.7	141.7	141.7	141.7	141.7	136.3	141.7	141.7
65°	103.6	98.1	98.1	98.1	98.1	98.1	98.1	98.1
67.5°	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
70°	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
72.5°	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
75°	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
77.5°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
80°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
82.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
85°	5.6	5.6	5.6	0.0	5.6	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)