

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: P859550

Luminaire Tested: **LX4C75D010 EX4C759027 4LBSWNH**

Issue Date: 2/18/2022

Test Information

Test Method: LM-79-08
Report Number: P859550
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 EX4C759027 4LBSWNH
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

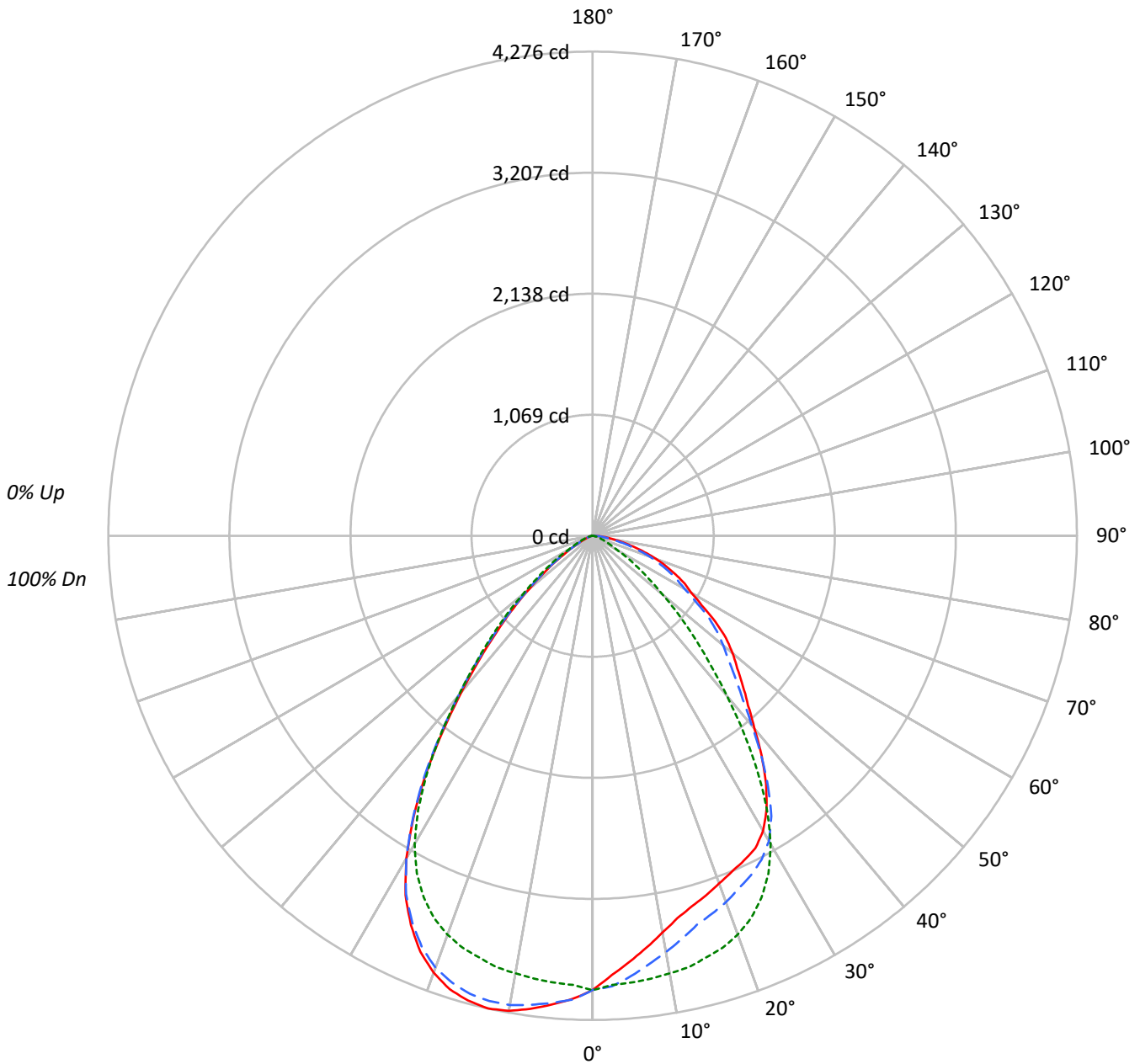
Lumens per Lamp: N/A
Luminaire Lumens: 7033.0 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	492913	492913	492913
5°	465457	488420	512640
10°	443756	489551	531467
15°	430732	490587	540546
20°	427199	490071	536718
25°	428919	477990	514427
30°	426882	445934	466475
35°	400122	380760	384614
40°	356543	295200	288577
45°	326077	220078	206595
50°	308305	154181	139331
55°	283521	104096	87475
60°	247697	60960	48257
65°	234505	39070	27035
70°	213616	27874	16739
75°	176719	19604	12294
80°	138950	11037	7287
85°	124044	7471	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.1	5.4
10°-20°	1087.5	15.5
20°-30°	1612.2	22.9
30°-40°	1614.4	23.0
40°-50°	1128.3	16.0
50°-60°	671.4	9.5
60°-70°	350.4	5.0
70°-80°	155.8	2.2
80°-90°	34.0	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°	3078.8	43.8
0°-40°	4693.2	66.7
0°-60°	6492.8	92.3
0°-90°	7033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7033.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4012	4012	4012	4012	4012	
5°	3774	3904	3960	4142	4157	354
15°	3387	3557	3857	4188	4250	959
25°	3164	3309	3526	3769	3795	1458
35°	2668	2699	2539	2585	2564	1654
45°	1877	1784	1267	1225	1189	1457
55°	1324	1241	486	424	408	1174
65°	807	739	134	98	93	798
75°	372	326	41	26	26	403
85°	88	67	5	5	0	98
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°	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2
2.5°	3882.9	3929.5	3882.9	3898.5	3960.5	3903.6	3934.6	3934.6	3919.2	3955.3	3981.2
5°	3774.3	3820.9	3774.3	3795.0	3862.2	3805.3	3841.6	3831.2	3836.5	3867.5	3903.6
7.5°	3665.8	3701.9	3660.6	3686.5	3748.5	3701.9	3732.9	3732.9	3738.2	3784.6	3815.8
10°	3557.2	3588.2	3557.2	3577.9	3645.2	3603.8	3624.5	3629.6	3645.2	3686.5	3732.9
12.5°	3458.9	3484.9	3453.8	3484.9	3541.6	3500.3	3526.2	3531.3	3546.9	3593.5	3645.2
15°	3386.6	3412.5	3381.5	3407.2	3458.9	3427.9	3448.6	3458.9	3469.2	3510.6	3557.2
17.5°	3329.8	3350.5	3324.5	3355.5	3396.9	3360.8	3391.8	3391.8	3407.2	3448.6	3500.3
20°	3267.6	3288.3	3267.6	3293.5	3340.1	3309.1	3334.9	3334.9	3350.5	3396.9	3443.5
22.5°	3210.8	3221.2	3210.8	3231.5	3277.9	3252.2	3267.6	3272.9	3288.3	3329.8	3371.2
25°	3164.2	3184.9	3174.6	3195.2	3226.2	3200.5	3215.9	3221.2	3236.6	3272.9	3309.1
27.5°	3112.5	3122.9	3112.5	3138.5	3164.2	3143.5	3159.1	3153.9	3164.2	3195.2	3226.2
30°	3009.2	3019.5	3019.5	3034.9	3055.8	3045.4	3060.9	3045.4	3055.8	3081.5	3112.5
32.5°	2859.2	2864.5	2869.5	2885.1	2900.5	2885.1	2895.5	2895.5	2895.5	2916.1	2936.8
35°	2667.9	2678.2	2673.1	2683.5	2698.9	2693.8	2693.8	2688.5	2678.2	2688.5	2698.9
37.5°	2450.8	2435.2	2435.2	2450.8	2461.1	2440.5	2450.8	2440.5	2440.5	2445.5	2445.5
40°	2223.2	2207.8	2223.2	2228.4	2233.5	2223.2	2218.1	2207.8	2192.2	2197.4	2187.1
42.5°	2032.1	2021.5	2026.8	2026.8	2032.1	2021.5	2026.8	2006.1	1990.5	1980.2	1964.8
45°	1876.8	1861.4	1876.8	1866.5	1866.5	1861.4	1856.1	1845.8	1825.1	1809.7	1783.8
47.5°	1732.1	1732.1	1737.2	1737.2	1737.2	1726.8	1726.8	1706.1	1685.5	1664.8	1628.7
50°	1613.1	1602.8	1623.5	1623.5	1608.1	1602.8	1608.1	1582.1	1566.7	1540.8	1504.5
52.5°	1483.8	1483.8	1489.1	1489.1	1483.8	1473.5	1478.7	1458.1	1442.5	1416.7	1380.4
55°	1323.7	1313.4	1328.8	1328.8	1323.7	1318.4	1323.7	1308.1	1292.7	1272.0	1240.8
57.5°	1142.7	1137.4	1147.8	1153.0	1142.7	1142.7	1147.8	1132.4	1127.1	1106.4	1075.4
60°	1008.1	1003.1	1013.4	1018.7	1008.1	1008.1	1008.1	987.4	977.1	956.4	935.8
62.5°	915.1	910.0	920.4	915.1	910.0	904.8	910.0	889.4	879.0	858.3	837.7
65°	806.7	811.7	817.0	817.0	811.7	806.7	806.7	796.3	786.0	765.3	739.4
67.5°	703.1	703.1	708.4	713.4	708.4	708.4	708.4	692.8	682.4	667.0	636.0
70°	594.7	589.4	605.0	605.0	594.7	599.7	594.7	589.4	579.1	558.4	532.6
72.5°	480.8	480.8	486.0	486.0	480.8	480.8	480.8	475.7	460.1	449.7	424.0
75°	372.3	372.3	377.4	382.7	372.3	372.3	372.3	377.4	367.1	356.7	341.3
77.5°	279.3	274.0	279.3	279.3	274.0	274.0	274.0	269.0	263.7	248.1	232.7
80°	196.4	191.3	196.4	196.4	196.4	191.3	191.3	186.1	186.1	175.7	160.3
82.5°	134.4	129.3	134.4	134.4	134.4	129.3	129.3	129.3	124.0	119.0	108.6
85°	88.0	82.7	82.7	88.0	82.7	82.7	82.7	82.7	77.6	72.4	67.3
87.5°	41.3	41.3	41.3	41.3	41.3	41.3	41.3	36.3	36.3	36.3	31.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2
2.5°	3960.5	3950.2	3981.2	3970.9	3975.9	3950.2	3991.5	3970.9	3996.6	3970.9	4022.6
5°	3893.3	3882.9	3929.5	3924.3	3929.5	3908.9	3955.3	3950.2	3981.2	3960.5	4017.3
7.5°	3820.9	3810.6	3862.2	3867.5	3877.8	3857.2	3919.2	3919.2	3950.2	3944.9	4007.0
10°	3738.2	3743.3	3795.0	3805.3	3826.2	3815.8	3872.6	3888.2	3929.5	3924.3	4001.9
12.5°	3660.6	3660.6	3727.9	3748.5	3763.9	3758.9	3826.2	3846.8	3893.3	3903.6	3975.9
15°	3583.2	3588.2	3650.2	3681.2	3701.9	3696.9	3769.2	3795.0	3851.9	3857.2	3944.9
17.5°	3520.9	3515.9	3583.2	3608.9	3639.9	3634.8	3712.3	3743.3	3800.2	3815.8	3898.5
20°	3469.2	3464.2	3526.2	3557.2	3577.9	3572.8	3650.2	3686.5	3738.2	3748.5	3831.2
22.5°	3407.2	3396.9	3458.9	3484.9	3505.5	3500.3	3567.5	3593.5	3645.2	3655.5	3732.9
25°	3334.9	3324.5	3381.5	3396.9	3412.5	3402.2	3458.9	3474.5	3515.9	3526.2	3603.8
27.5°	3252.2	3226.2	3272.9	3272.9	3283.2	3267.6	3309.1	3324.5	3360.8	3360.8	3433.2
30°	3122.9	3086.8	3112.5	3107.5	3112.5	3091.9	3117.8	3122.9	3148.8	3143.5	3195.2
32.5°	2941.9	2890.2	2905.8	2890.2	2874.8	2843.8	2874.8	2864.5	2885.1	2864.5	2910.9
35°	2693.8	2642.1	2636.8	2616.2	2600.8	2574.8	2574.8	2549.1	2554.2	2538.8	2569.8
37.5°	2424.8	2357.8	2347.4	2306.1	2280.1	2249.1	2249.1	2228.4	2202.5	2192.2	2218.1
40°	2161.2	2088.8	2063.1	1995.8	1969.8	1938.8	1918.1	1892.4	1882.1	1840.7	1861.4
42.5°	1933.8	1856.1	1799.4	1726.8	1701.1	1654.5	1623.5	1592.4	1577.0	1530.4	1551.1
45°	1742.4	1649.4	1587.4	1494.1	1458.1	1406.4	1359.8	1323.7	1287.4	1266.7	1256.4
47.5°	1582.1	1483.8	1401.1	1297.8	1240.8	1194.4	1132.4	1096.1	1049.7	1023.7	1008.1
50°	1447.7	1339.1	1246.1	1127.1	1070.3	1018.7	946.1	889.4	848.0	806.7	796.3
52.5°	1328.8	1215.1	1111.7	977.1	910.0	848.0	770.4	708.4	672.1	625.7	620.4
55°	1189.1	1091.0	977.1	837.7	770.4	708.4	625.7	563.6	517.0	486.0	475.7
57.5°	1039.3	946.1	837.7	698.0	630.7	563.6	486.0	429.1	387.7	362.0	356.7
60°	899.7	811.7	708.4	568.7	501.4	444.7	362.0	305.0	269.0	248.1	237.7
62.5°	796.3	713.4	615.3	486.0	424.0	367.1	289.6	237.7	206.7	186.1	175.7
65°	698.0	615.3	527.4	408.4	356.7	305.0	232.7	186.1	155.0	134.4	124.0
67.5°	594.7	522.3	439.4	341.3	289.6	248.1	186.1	144.7	119.0	103.4	93.0
70°	491.1	424.0	356.7	274.0	237.7	196.4	144.7	113.7	88.0	77.6	67.3
72.5°	387.7	336.0	279.3	212.0	181.0	155.0	113.7	82.7	67.3	57.0	46.6
75°	289.6	253.3	206.7	160.3	134.4	113.7	82.7	62.0	51.7	41.3	36.3
77.5°	206.7	175.7	144.7	108.6	98.3	82.7	57.0	46.6	36.3	25.9	20.7
80°	139.6	124.0	98.3	77.6	62.0	57.0	41.3	31.0	20.7	15.6	15.6
82.5°	93.0	77.6	62.0	46.6	41.3	36.3	25.9	20.7	15.6	10.3	10.3
85°	57.0	46.6	36.3	25.9	25.9	20.7	15.6	10.3	5.3	5.3	5.3
87.5°	25.9	20.7	15.6	10.3	10.3	5.3	5.3	5.3	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°	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2
2.5°	4063.9	4032.9	4012.2	4038.0	4048.3	4032.9	4048.3	4074.2	4100.2	4105.3	4032.9
5°	4069.2	4038.0	4027.6	4058.6	4063.9	4058.6	4074.2	4110.5	4141.5	4151.9	4079.5
7.5°	4069.2	4048.3	4043.2	4079.5	4084.6	4079.5	4105.3	4146.6	4177.6	4198.3	4125.9
10°	4058.6	4048.3	4053.6	4084.6	4094.9	4094.9	4131.2	4177.6	4208.6	4229.3	4156.9
12.5°	4043.2	4043.2	4043.2	4079.5	4089.8	4094.9	4125.9	4187.9	4208.6	4239.6	4167.3
15°	4017.3	4017.3	4017.3	4053.6	4069.2	4069.2	4105.3	4162.2	4187.9	4219.0	4146.6
17.5°	3970.9	3970.9	3975.9	4007.0	4022.6	4022.6	4058.6	4120.9	4136.3	4172.5	4100.2
20°	3903.6	3903.6	3908.9	3939.9	3955.3	3944.9	3991.5	4043.2	4058.6	4089.8	4017.3
22.5°	3805.3	3805.3	3805.3	3836.5	3846.8	3841.6	3888.2	3934.6	3934.6	3975.9	3898.5
25°	3660.6	3670.9	3660.6	3691.6	3701.9	3696.9	3738.2	3779.5	3769.2	3815.8	3738.2
27.5°	3484.9	3479.6	3479.6	3505.5	3505.5	3500.3	3531.3	3577.9	3567.5	3598.6	3526.2
30°	3241.8	3257.2	3231.5	3267.6	3252.2	3241.8	3262.5	3303.9	3288.3	3314.2	3257.2
32.5°	2962.6	2941.9	2941.9	2941.9	2952.2	2926.5	2947.1	2967.8	2952.2	2978.2	2916.1
35°	2595.5	2600.8	2585.2	2590.4	2595.5	2564.5	2585.2	2605.8	2585.2	2600.8	2543.8
37.5°	2228.4	2233.5	2197.4	2218.1	2197.4	2187.1	2207.8	2218.1	2197.4	2212.8	2150.8
40°	1861.4	1851.1	1845.8	1845.8	1851.1	1825.1	1840.7	1856.1	1840.7	1851.1	1794.1
42.5°	1540.8	1535.7	1525.4	1530.4	1514.8	1509.8	1514.8	1530.4	1514.8	1525.4	1483.8
45°	1261.5	1251.1	1235.7	1240.8	1240.8	1215.1	1230.5	1240.8	1225.4	1230.5	1194.4
47.5°	1003.1	987.4	987.4	982.4	982.4	972.0	987.4	982.4	966.8	977.1	941.0
50°	780.7	770.4	770.4	770.4	770.4	754.8	760.0	770.4	754.8	754.8	734.1
52.5°	610.1	594.7	584.3	584.3	584.3	579.1	579.1	584.3	568.7	568.7	563.6
55°	460.1	455.0	439.4	439.4	439.4	424.0	429.1	429.1	424.0	424.0	408.4
57.5°	341.3	325.7	315.4	315.4	305.0	305.0	300.0	305.0	294.7	294.7	284.4
60°	227.4	217.1	212.0	206.7	206.7	201.7	206.7	201.7	201.7	196.4	191.3
62.5°	165.4	155.0	144.7	144.7	144.7	139.6	139.6	139.6	139.6	139.6	134.4
65°	119.0	108.6	108.6	103.4	103.4	98.3	98.3	98.3	98.3	98.3	93.0
67.5°	82.7	77.6	72.4	72.4	72.4	72.4	72.4	72.4	67.3	67.3	67.3
70°	62.0	57.0	51.7	51.7	51.7	51.7	51.7	46.6	51.7	51.7	46.6
72.5°	41.3	41.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
75°	31.0	31.0	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
77.5°	20.7	20.7	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
80°	15.6	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
82.5°	10.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
85°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	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: P859550

CATALOG NUMBER: LX4C75D010 EX4C759027 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2
2.5°	4110.5	4105.3	4094.9	4110.5	4069.2	4053.6	4048.3	4094.9
5°	4167.3	4156.9	4156.9	4172.5	4125.9	4115.6	4105.3	4156.9
7.5°	4219.0	4208.6	4208.6	4224.2	4182.9	4172.5	4162.2	4213.9
10°	4250.0	4250.0	4250.0	4260.3	4224.2	4213.9	4208.6	4260.3
12.5°	4265.6	4265.6	4260.3	4281.0	4234.6	4234.6	4224.2	4275.9
15°	4244.9	4244.9	4244.9	4260.3	4219.0	4208.6	4208.6	4250.0
17.5°	4193.2	4193.2	4187.9	4203.6	4156.9	4156.9	4151.9	4198.3
20°	4115.6	4115.6	4105.3	4125.9	4079.5	4063.9	4058.6	4105.3
22.5°	3991.5	3986.3	3981.2	3991.5	3950.2	3939.9	3934.6	3975.9
25°	3831.2	3826.2	3815.8	3826.2	3779.5	3763.9	3763.9	3795.0
27.5°	3603.8	3603.8	3588.2	3603.8	3551.9	3546.9	3541.6	3577.9
30°	3324.5	3303.9	3293.5	3314.2	3262.5	3262.5	3252.2	3288.3
32.5°	2978.2	2957.5	2952.2	2962.6	2916.1	2900.5	2921.2	2941.9
35°	2580.1	2585.2	2564.5	2564.5	2523.1	2528.2	2533.5	2564.5
37.5°	2197.4	2187.1	2181.8	2187.1	2156.1	2145.8	2135.4	2166.4
40°	1840.7	1814.8	1809.7	1809.7	1783.8	1778.7	1783.8	1799.4
42.5°	1504.5	1499.4	1478.7	1489.1	1463.1	1473.5	1468.4	1468.4
45°	1215.1	1220.1	1199.5	1215.1	1194.4	1178.8	1178.8	1189.1
47.5°	961.7	961.7	956.4	956.4	941.0	946.1	935.8	951.4
50°	744.4	744.4	734.1	739.4	729.0	729.0	723.8	729.0
52.5°	568.7	563.6	563.6	558.4	548.0	553.3	558.4	548.0
55°	413.7	418.7	408.4	413.7	403.3	408.4	403.3	408.4
57.5°	284.4	289.6	279.3	289.6	279.3	284.4	279.3	279.3
60°	196.4	196.4	191.3	196.4	191.3	191.3	186.1	196.4
62.5°	134.4	134.4	134.4	134.4	134.4	129.3	134.4	134.4
65°	98.3	93.0	93.0	93.0	93.0	93.0	93.0	93.0
67.5°	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
70°	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
72.5°	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
75°	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
77.5°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
80°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
82.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
85°	5.3	5.3	5.3	0.0	5.3	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)