

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: P859564

Luminaire Tested: **LX4C75D010 EX4C759030 4LBSWNH**

Issue Date: 2/18/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P859564  
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 EX4C759030 4LBSWNH  
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

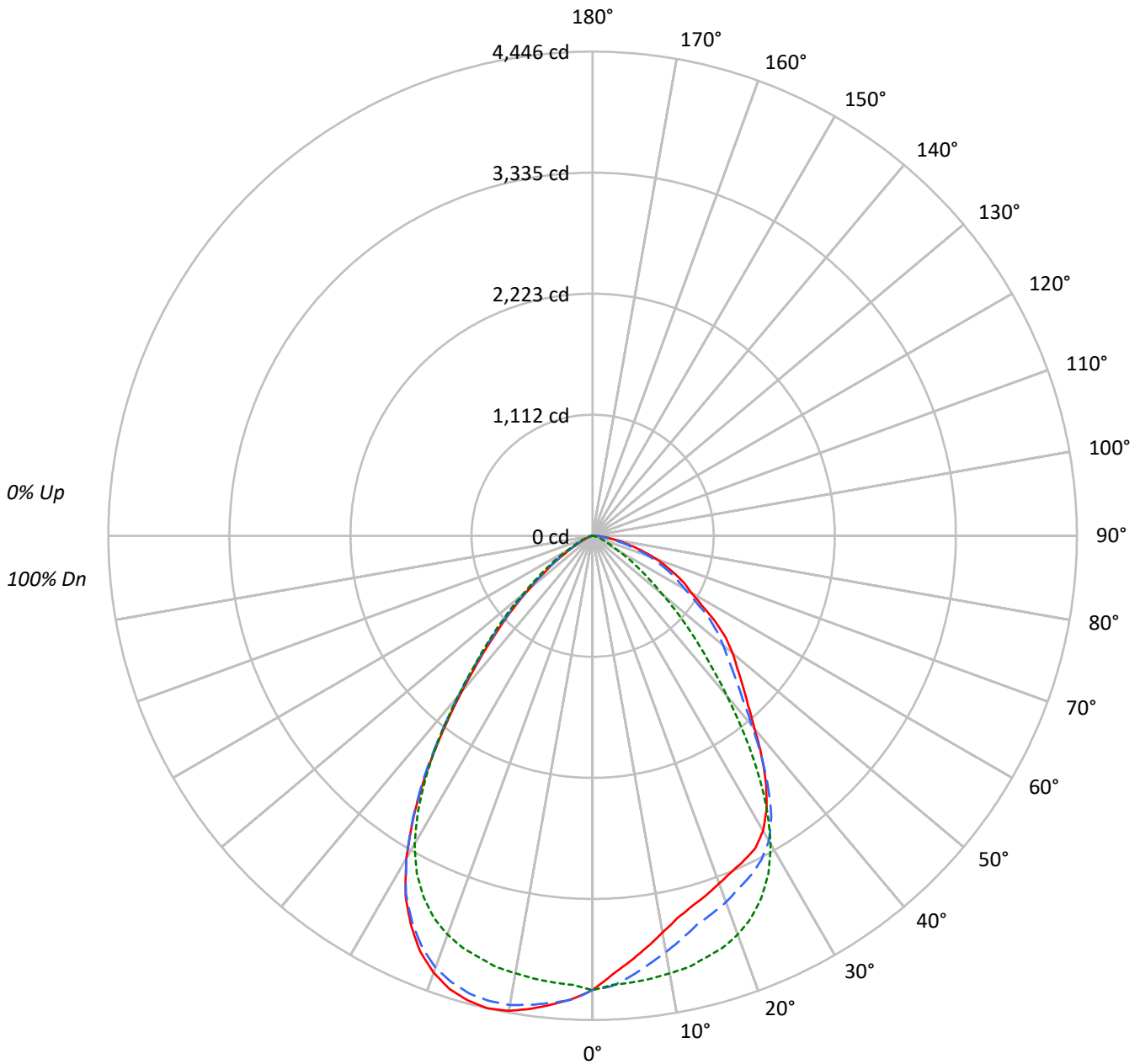
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7312.0 lumens  
Efficiency: N/A  
Efficacy: 89.7 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<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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70																			
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62																			
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56																			
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50																			
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46																			
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42																			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38																			
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	512471	512471	512471
5°	483918	507806	532976
10°	461358	508962	552549
15°	447814	510046	561990
20°	444143	509512	558003
25°	445931	496954	534828
30°	443806	463623	484973
35°	415990	395863	399867
40°	370688	306907	300027
45°	339021	228817	214796
50°	320538	160297	144874
55°	294766	108229	90944
60°	257525	63368	50173
65°	243807	40610	28110
70°	222057	28987	17421
75°	183745	20411	12816
80°	144468	11461	7570
85°	128977	7753	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	394.1	5.4
10°-20°	1130.7	15.5
20°-30°	1676.1	22.9
30°-40°	1678.4	23.0
40°-50°	1173.0	16.0
50°-60°	698.0	9.5
60°-70°	364.3	5.0
70°-80°	162.0	2.2
80°-90°	35.3	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°	3200.9	43.8
0°-40°	4879.3	66.7
0°-60°	6750.4	92.3
0°-90°	7312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7312.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4171	4171	4171	4171	4171	
5°	3924	4058	4118	4306	4322	368
15°	3521	3698	4010	4354	4419	997
25°	3290	3440	3666	3919	3946	1516
35°	2774	2806	2640	2688	2666	1720
45°	1951	1854	1317	1274	1236	1515
55°	1376	1290	505	441	425	1221
65°	839	769	140	102	97	830
75°	387	339	43	27	27	419
85°	92	70	6	6	0	102
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°	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4
2.5°	4036.9	4085.4	4036.9	4053.2	4117.7	4058.4	4090.7	4090.7	4074.7	4112.2	4139.1
5°	3924.0	3972.5	3924.0	3945.5	4015.5	3956.2	3994.0	3983.2	3988.7	4020.9	4058.4
7.5°	3811.3	3848.8	3805.8	3832.8	3897.2	3848.8	3881.0	3881.0	3886.5	3934.8	3967.2
10°	3698.3	3730.6	3698.3	3719.8	3789.8	3746.8	3768.3	3773.6	3789.8	3832.8	3881.0
12.5°	3596.1	3623.1	3590.9	3623.1	3682.1	3639.1	3666.1	3671.4	3687.6	3736.0	3789.8
15°	3520.9	3547.9	3515.6	3542.4	3596.1	3563.9	3585.4	3596.1	3606.9	3649.9	3698.3
17.5°	3461.9	3483.4	3456.4	3488.7	3531.6	3494.1	3526.4	3526.4	3542.4	3585.4	3639.1
20°	3397.2	3418.7	3397.2	3424.2	3472.6	3440.4	3467.2	3467.2	3483.4	3531.6	3580.1
22.5°	3338.2	3349.0	3338.2	3359.7	3408.0	3381.2	3397.2	3402.7	3418.7	3461.9	3504.9
25°	3289.7	3311.2	3300.5	3322.0	3354.2	3327.5	3343.5	3349.0	3365.0	3402.7	3440.4
27.5°	3236.0	3246.8	3236.0	3263.0	3289.7	3268.2	3284.5	3279.0	3289.7	3322.0	3354.2
30°	3128.5	3139.3	3139.3	3155.3	3177.0	3166.3	3182.3	3166.3	3177.0	3203.8	3236.0
32.5°	2972.6	2978.1	2983.4	2999.6	3015.6	2999.6	3010.3	3010.3	3010.3	3031.8	3053.3
35°	2773.7	2784.4	2779.2	2789.9	2805.9	2800.7	2800.7	2795.2	2784.4	2795.2	2805.9
37.5°	2548.0	2531.8	2531.8	2548.0	2558.8	2537.3	2548.0	2537.3	2537.3	2542.5	2542.5
40°	2311.4	2295.4	2311.4	2316.9	2322.1	2311.4	2306.1	2295.4	2279.1	2284.6	2273.9
42.5°	2112.7	2101.7	2107.2	2107.2	2112.7	2101.7	2107.2	2085.7	2069.5	2058.7	2042.7
45°	1951.3	1935.2	1951.3	1940.5	1940.5	1935.2	1929.8	1919.0	1897.5	1881.5	1854.5
47.5°	1800.8	1800.8	1806.1	1806.1	1806.1	1795.3	1795.3	1773.8	1752.3	1730.8	1693.3
50°	1677.1	1666.4	1687.9	1687.9	1671.8	1666.4	1671.8	1644.9	1628.9	1601.9	1564.2
52.5°	1542.7	1542.7	1548.2	1548.2	1542.7	1531.9	1537.4	1515.9	1499.7	1472.9	1435.2
55°	1376.2	1365.5	1381.5	1381.5	1376.2	1370.7	1376.2	1360.0	1344.0	1322.5	1290.0
57.5°	1188.0	1182.6	1193.3	1198.8	1188.0	1188.0	1193.3	1177.3	1171.8	1150.3	1118.1
60°	1048.1	1042.8	1053.6	1059.1	1048.1	1048.1	1048.1	1026.6	1015.9	994.4	972.9
62.5°	951.4	946.1	956.9	951.4	946.1	940.6	946.1	924.6	913.9	892.4	870.9
65°	838.7	843.9	849.4	849.4	843.9	838.7	838.7	827.9	817.2	795.7	768.7
67.5°	731.0	731.0	736.5	741.7	736.5	736.5	736.5	720.2	709.5	693.5	661.2
70°	618.2	612.8	629.0	629.0	618.2	623.5	618.2	612.8	602.0	580.5	553.8
72.5°	499.8	499.8	505.3	505.3	499.8	499.8	499.8	494.6	478.3	467.6	440.8
75°	387.1	387.1	392.4	397.8	387.1	387.1	392.4	381.6	370.9	354.9	338.6
77.5°	290.4	284.9	290.4	290.4	284.9	284.9	284.9	279.6	274.1	257.9	241.9
80°	204.2	198.9	204.2	204.2	204.2	198.9	198.9	193.4	193.4	182.7	166.7
82.5°	139.7	134.4	139.7	139.7	139.7	134.4	134.4	134.4	129.0	123.7	112.9
85°	91.5	86.0	86.0	91.5	86.0	86.0	86.0	86.0	80.7	75.2	70.0
87.5°	43.0	43.0	43.0	43.0	43.0	43.0	43.0	37.7	37.7	37.7	32.2
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°	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4
2.5°	4117.7	4106.9	4139.1	4128.4	4133.7	4106.9	4149.9	4128.4	4155.2	4128.4	4182.1
5°	4047.7	4036.9	4085.4	4079.9	4085.4	4063.9	4112.2	4106.9	4139.1	4117.7	4176.7
7.5°	3972.5	3961.7	4015.5	4020.9	4031.7	4010.2	4074.7	4074.7	4106.9	4101.4	4165.9
10°	3886.5	3891.8	3945.5	3956.2	3977.9	3967.2	4026.2	4042.4	4085.4	4079.9	4160.6
12.5°	3805.8	3805.8	3875.7	3897.2	3913.3	3908.0	3977.9	3999.4	4047.7	4058.4	4133.7
15°	3725.3	3730.6	3795.0	3827.3	3848.8	3843.5	3918.7	3945.5	4004.7	4010.2	4101.4
17.5°	3660.6	3655.3	3725.3	3752.1	3784.3	3779.0	3859.5	3891.8	3951.0	3967.2	4053.2
20°	3606.9	3601.6	3666.1	3698.3	3719.8	3714.5	3795.0	3832.8	3886.5	3897.2	3983.2
22.5°	3542.4	3531.6	3596.1	3623.1	3644.6	3639.1	3709.1	3736.0	3789.8	3800.5	3881.0
25°	3467.2	3456.4	3515.6	3531.6	3547.9	3537.1	3596.1	3612.4	3655.3	3666.1	3746.8
27.5°	3381.2	3354.2	3402.7	3402.7	3413.4	3397.2	3440.4	3456.4	3494.1	3494.1	3569.4
30°	3246.8	3209.2	3236.0	3230.7	3236.0	3214.5	3241.5	3246.8	3273.7	3268.2	3322.0
32.5°	3058.6	3004.8	3021.1	3004.8	2988.8	2956.6	2988.8	2978.1	2999.6	2978.1	3026.3
35°	2800.7	2746.9	2741.5	2720.0	2703.9	2677.0	2677.0	2650.2	2655.5	2639.5	2671.7
37.5°	2521.0	2451.3	2440.5	2397.6	2370.6	2338.3	2338.3	2316.9	2289.9	2279.1	2306.1
40°	2246.9	2171.7	2144.9	2074.9	2048.0	2015.7	1994.2	1967.5	1956.7	1913.7	1935.2
42.5°	2010.5	1929.8	1870.8	1795.3	1768.6	1720.1	1687.9	1655.6	1639.6	1591.1	1612.6
45°	1811.5	1714.8	1650.3	1553.4	1515.9	1462.2	1413.7	1376.2	1338.5	1317.0	1306.2
47.5°	1644.9	1542.7	1456.7	1349.2	1290.0	1241.8	1177.3	1139.6	1091.3	1064.3	1048.1
50°	1505.2	1392.2	1295.5	1171.8	1112.8	1059.1	983.6	924.6	881.6	838.7	827.9
52.5°	1381.5	1263.3	1155.8	1015.9	946.1	881.6	800.9	736.5	698.7	650.5	645.0
55°	1236.3	1134.3	1015.9	870.9	800.9	736.5	650.5	586.0	537.5	505.3	494.6
57.5°	1080.6	983.6	870.9	725.7	655.8	586.0	505.3	446.1	403.1	376.3	370.9
60°	935.4	843.9	736.5	591.3	521.3	462.3	376.3	317.1	279.6	257.9	247.2
62.5°	827.9	741.7	639.7	505.3	440.8	381.6	301.1	247.2	214.9	193.4	182.7
65°	725.7	639.7	548.3	424.6	370.9	317.1	241.9	193.4	161.2	139.7	129.0
67.5°	618.2	543.0	456.8	354.9	301.1	257.9	193.4	150.5	123.7	107.5	96.7
70°	510.6	440.8	370.9	284.9	247.2	204.2	150.5	118.2	91.5	80.7	70.0
72.5°	403.1	349.4	290.4	220.4	188.2	161.2	118.2	86.0	70.0	59.2	48.5
75°	301.1	263.4	214.9	166.7	139.7	118.2	86.0	64.5	53.7	43.0	37.7
77.5°	214.9	182.7	150.5	112.9	102.2	86.0	59.2	48.5	37.7	27.0	21.5
80°	145.2	129.0	102.2	80.7	64.5	59.2	43.0	32.2	21.5	16.2	16.2
82.5°	96.7	80.7	64.5	48.5	43.0	37.7	27.0	21.5	16.2	10.7	10.7
85°	59.2	48.5	37.7	27.0	27.0	21.5	16.2	10.7	5.5	5.5	5.5
87.5°	27.0	21.5	16.2	10.7	10.7	5.5	5.5	5.5	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°	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4
2.5°	4225.1	4192.9	4171.4	4198.1	4208.9	4192.9	4208.9	4235.9	4262.8	4268.1	4192.9
5°	4230.6	4198.1	4187.4	4219.6	4225.1	4219.6	4235.9	4273.6	4305.8	4316.6	4241.3
7.5°	4230.6	4208.9	4203.6	4241.3	4246.6	4241.3	4268.1	4311.1	4343.3	4364.8	4289.6
10°	4219.6	4208.9	4214.4	4246.6	4257.4	4257.4	4295.1	4343.3	4375.6	4397.1	4321.8
12.5°	4203.6	4203.6	4203.6	4241.3	4252.1	4257.4	4289.6	4354.1	4375.6	4407.8	4332.6
15°	4176.7	4176.7	4176.7	4214.4	4230.6	4230.6	4268.1	4327.3	4354.1	4386.3	4311.1
17.5°	4128.4	4128.4	4133.7	4165.9	4182.1	4182.1	4219.6	4284.3	4300.3	4338.1	4262.8
20°	4058.4	4058.4	4063.9	4096.2	4112.2	4101.4	4149.9	4203.6	4219.6	4252.1	4176.7
22.5°	3956.2	3956.2	3956.2	3988.7	3999.4	3994.0	4042.4	4090.7	4090.7	4133.7	4053.2
25°	3805.8	3816.5	3805.8	3838.0	3848.8	3843.5	3886.5	3929.5	3918.7	3967.2	3886.5
27.5°	3623.1	3617.6	3617.6	3644.6	3644.6	3639.1	3671.4	3719.8	3709.1	3741.3	3666.1
30°	3370.4	3386.5	3359.7	3397.2	3381.2	3370.4	3391.9	3434.9	3418.7	3445.7	3386.5
32.5°	3080.1	3058.6	3058.6	3058.6	3069.3	3042.6	3064.1	3085.6	3069.3	3096.3	3031.8
35°	2698.5	2703.9	2687.7	2693.2	2698.5	2666.2	2687.7	2709.2	2687.7	2703.9	2644.7
37.5°	2316.9	2322.1	2284.6	2306.1	2284.6	2273.9	2295.4	2306.1	2284.6	2300.6	2236.1
40°	1935.2	1924.5	1919.0	1919.0	1924.5	1897.5	1913.7	1929.8	1913.7	1924.5	1865.3
42.5°	1601.9	1596.6	1585.9	1591.1	1574.9	1569.6	1574.9	1591.1	1574.9	1585.9	1542.7
45°	1311.5	1300.8	1284.8	1290.0	1290.0	1263.3	1279.3	1290.0	1274.0	1279.3	1241.8
47.5°	1042.8	1026.6	1026.6	1021.4	1021.4	1010.6	1026.6	1021.4	1005.1	1015.9	978.4
50°	811.7	800.9	800.9	800.9	800.9	784.7	790.2	800.9	784.7	784.7	763.2
52.5°	634.3	618.2	607.5	607.5	607.5	602.0	602.0	607.5	591.3	591.3	586.0
55°	478.3	473.1	456.8	456.8	456.8	440.8	446.1	446.1	440.8	440.8	424.6
57.5°	354.9	338.6	327.9	327.9	317.1	317.1	311.9	317.1	306.4	306.4	295.6
60°	236.4	225.7	220.4	214.9	214.9	209.7	214.9	209.7	209.7	204.2	198.9
62.5°	171.9	161.2	150.5	150.5	150.5	145.2	145.2	145.2	145.2	145.2	139.7
65°	123.7	112.9	112.9	107.5	107.5	102.2	102.2	102.2	102.2	102.2	96.7
67.5°	86.0	80.7	75.2	75.2	75.2	75.2	75.2	75.2	70.0	70.0	70.0
70°	64.5	59.2	53.7	53.7	53.7	53.7	53.7	48.5	53.7	53.7	48.5
72.5°	43.0	43.0	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
75°	32.2	32.2	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
77.5°	21.5	21.5	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
80°	16.2	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
82.5°	10.7	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
85°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	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: P859564

CATALOG NUMBER: LX4C75D010 EX4C759030 4LBSWNH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4	4171.4
2.5°	4273.6	4268.1	4257.4	4273.6	4230.6	4214.4	4208.9	4257.4
5°	4332.6	4321.8	4321.8	4338.1	4289.6	4278.9	4268.1	4321.8
7.5°	4386.3	4375.6	4375.6	4391.8	4348.8	4338.1	4327.3	4381.1
10°	4418.6	4418.6	4418.6	4429.3	4391.8	4381.1	4375.6	4429.3
12.5°	4434.8	4434.8	4429.3	4450.8	4402.5	4402.5	4391.8	4445.5
15°	4413.3	4413.3	4413.3	4429.3	4386.3	4375.6	4375.6	4418.6
17.5°	4359.6	4359.6	4354.1	4370.3	4321.8	4321.8	4316.6	4364.8
20°	4278.9	4278.9	4268.1	4289.6	4241.3	4225.1	4219.6	4268.1
22.5°	4149.9	4144.4	4139.1	4149.9	4106.9	4096.2	4090.7	4133.7
25°	3983.2	3977.9	3967.2	3977.9	3929.5	3913.3	3913.3	3945.5
27.5°	3746.8	3746.8	3730.6	3746.8	3692.8	3687.6	3682.1	3719.8
30°	3456.4	3434.9	3424.2	3445.7	3391.9	3391.9	3381.2	3418.7
32.5°	3096.3	3074.8	3069.3	3080.1	3031.8	3015.6	3037.1	3058.6
35°	2682.4	2687.7	2666.2	2666.2	2623.2	2628.5	2634.0	2666.2
37.5°	2284.6	2273.9	2268.4	2273.9	2241.6	2230.9	2220.1	2252.4
40°	1913.7	1886.8	1881.5	1881.5	1854.5	1849.3	1854.5	1870.8
42.5°	1564.2	1558.9	1537.4	1548.2	1521.2	1531.9	1526.7	1526.7
45°	1263.3	1268.5	1247.0	1263.3	1241.8	1225.5	1225.5	1236.3
47.5°	999.9	999.9	994.4	994.4	978.4	983.6	972.9	989.1
50°	774.0	774.0	763.2	768.7	758.0	758.0	752.5	758.0
52.5°	591.3	586.0	586.0	580.5	569.8	575.3	580.5	569.8
55°	430.1	435.3	424.6	430.1	419.3	424.6	419.3	424.6
57.5°	295.6	301.1	290.4	301.1	290.4	295.6	290.4	290.4
60°	204.2	204.2	198.9	204.2	198.9	198.9	193.4	204.2
62.5°	139.7	139.7	139.7	139.7	139.7	134.4	139.7	139.7
65°	102.2	96.7	96.7	96.7	96.7	96.7	96.7	96.7
67.5°	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
70°	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
72.5°	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
75°	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
77.5°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
80°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
82.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
85°	5.5	5.5	5.5	0.0	5.5	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)