

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: P859216

Luminaire Tested: **LX4C60D010 EX4C609035 4LBLWW***

Issue Date: 2/9/2022

Test Information

Test Method: LM-79-08
Report Number: P859216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C60D010 EX4C609035 4LBLWW*
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

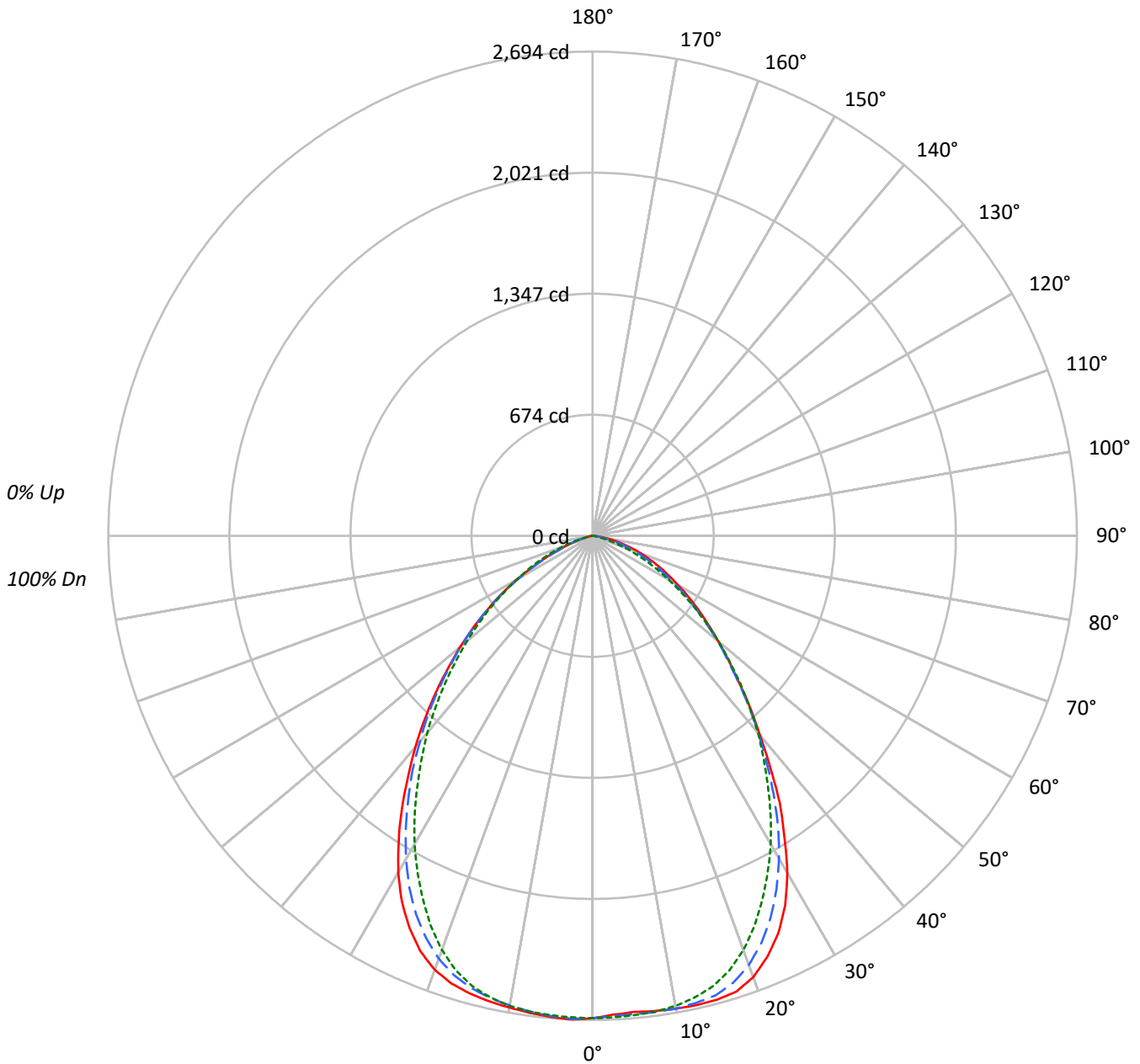
Lumens per Lamp: N/A
Luminaire Lumens: 5146.0 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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									
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	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54																			
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39																			
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36																			
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	329751	329751	329751
5°	327903	330147	331393
10°	333341	331320	332580
15°	339857	329847	335367
20°	341566	320609	335892
25°	331050	302773	326549
30°	307281	280966	306699
35°	272102	254870	277246
40°	231965	229543	245869
45°	199281	201557	214171
50°	173963	174345	183596
55°	153723	147233	152202
60°	134721	120126	119610
65°	119244	93168	82907
70°	101725	64081	49246
75°	82308	34461	22499
80°	56316	8561	5731
85°	17056	2819	2819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.1	5.0
10°-20°	738.5	14.4
20°-30°	1067.0	20.7
30°-40°	1103.1	21.4
40°-50°	911.5	17.7
50°-60°	629.0	12.2
60°-70°	329.3	6.4
70°-80°	103.7	2.0
80°-90°	8.8	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°	2060.6	40.0
0°-40°	3163.7	61.5
0°-60°	4704.2	91.4
0°-90°	5146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5146.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2684	2684	2684	2684	2684	
5°	2659	2672	2677	2682	2687	255
15°	2672	2647	2593	2606	2637	754
25°	2442	2344	2234	2323	2409	1115
35°	1814	1754	1699	1788	1849	1126
45°	1147	1142	1160	1214	1233	894
55°	718	696	687	707	711	645
65°	410	372	320	266	285	406
75°	173	136	73	49	47	186
85°	12	6	2	2	2	25
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°	2684.1	2684.1	2684.1	2684.1	2684.1	2684.1	2684.1	2684.1	2684.1	2684.1	2684.1
2.5°	2667.0	2668.0	2668.0	2670.0	2670.0	2670.0	2671.0	2671.0	2672.1	2673.1	2674.1
5°	2658.9	2658.9	2661.0	2662.0	2664.0	2665.0	2667.0	2668.0	2670.0	2671.0	2672.1
7.5°	2667.0	2667.0	2668.0	2669.0	2669.0	2670.0	2670.0	2671.0	2672.1	2673.1	2673.1
10°	2672.1	2672.1	2672.1	2672.1	2673.1	2673.1	2673.1	2672.1	2672.1	2672.1	2671.0
12.5°	2674.1	2674.1	2673.1	2672.1	2673.1	2672.1	2672.1	2669.0	2667.0	2665.0	2662.0
15°	2672.1	2672.1	2671.0	2670.0	2669.0	2667.0	2666.0	2661.0	2656.9	2650.9	2646.9
17.5°	2658.9	2656.9	2654.9	2652.9	2648.9	2645.8	2643.8	2634.8	2627.7	2617.6	2606.5
20°	2612.6	2610.6	2607.5	2602.5	2597.5	2593.4	2587.4	2574.3	2567.2	2552.1	2541.0
22.5°	2537.0	2535.0	2536.0	2526.9	2516.8	2510.8	2506.7	2495.7	2483.6	2464.4	2452.3
25°	2442.2	2436.2	2436.2	2422.1	2417.0	2413.0	2408.0	2394.9	2376.7	2359.6	2343.5
27.5°	2319.3	2311.2	2307.2	2305.2	2293.1	2284.0	2276.9	2266.9	2251.7	2236.6	2214.4
30°	2166.1	2165.1	2160.0	2150.9	2141.9	2137.8	2129.8	2112.6	2098.5	2087.4	2073.3
32.5°	1985.6	1984.6	1984.6	1984.6	1978.6	1977.6	1965.5	1956.4	1945.3	1928.2	1919.1
35°	1814.3	1813.3	1814.3	1799.2	1795.1	1792.1	1791.1	1785.1	1769.9	1761.9	1753.8
37.5°	1620.8	1623.8	1621.8	1617.7	1622.8	1613.7	1620.8	1607.7	1601.6	1599.6	1590.5
40°	1446.4	1454.5	1446.4	1447.4	1452.4	1443.4	1443.4	1441.4	1437.3	1435.3	1433.3
42.5°	1297.2	1287.1	1293.2	1288.1	1293.2	1290.2	1285.1	1288.1	1289.2	1285.1	1284.1
45°	1147.0	1149.1	1151.1	1148.0	1148.0	1145.0	1153.1	1148.0	1148.0	1149.1	1142.0
47.5°	1025.1	1022.1	1024.1	1022.1	1023.1	1021.0	1023.1	1024.1	1022.1	1022.1	1016.0
50°	910.2	908.2	915.2	909.2	909.2	908.2	909.2	907.1	904.1	904.1	906.1
52.5°	810.4	806.4	805.3	810.4	803.3	803.3	804.3	802.3	798.3	796.3	791.2
55°	717.7	716.6	717.7	713.6	711.6	711.6	706.6	704.6	703.5	698.5	695.5
57.5°	631.0	627.9	629.0	627.9	623.9	622.9	618.9	618.9	614.8	610.8	605.8
60°	548.3	548.3	551.3	547.3	544.3	542.3	540.3	538.2	531.2	524.1	518.1
62.5°	474.7	475.7	474.7	471.7	469.7	467.7	465.7	459.6	453.6	449.5	442.5
65°	410.2	409.2	406.2	404.2	399.1	399.1	395.1	392.1	385.0	379.0	371.9
67.5°	343.7	341.7	341.7	341.7	335.6	334.6	332.6	326.6	320.5	312.5	306.4
70°	283.2	285.2	282.2	279.2	276.2	275.2	272.1	266.1	259.0	251.0	245.9
72.5°	225.8	227.8	224.8	223.8	217.7	215.7	214.7	209.7	201.6	196.5	188.5
75°	173.4	174.4	172.4	170.3	166.3	165.3	160.3	156.2	151.2	143.1	136.1
77.5°	125.0	123.0	123.0	118.9	114.9	114.9	113.9	107.8	100.8	94.7	88.7
80°	79.6	78.6	75.6	73.6	70.6	69.5	68.5	63.5	58.5	54.4	50.4
82.5°	40.3	39.3	38.3	37.3	35.3	33.3	34.3	30.2	28.2	24.2	21.2
85°	12.1	13.1	13.1	12.1	11.1	11.1	11.1	10.1	8.1	7.1	6.0
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2684.1	2684.1	2684.1	2684.1	2684.1	2684.1	2684.1	2684.1	2684.1	2684.1	2684.1
2.5°	2675.1	2676.1	2677.1	2678.1	2678.1	2679.1	2680.1	2681.1	2682.1	2682.1	2683.1
5°	2673.1	2675.1	2675.1	2676.1	2676.1	2676.1	2677.1	2677.1	2677.1	2677.1	2678.1
7.5°	2674.1	2674.1	2674.1	2673.1	2673.1	2672.1	2672.1	2672.1	2670.0	2670.0	2670.0
10°	2669.0	2668.0	2667.0	2665.0	2664.0	2663.0	2661.0	2658.9	2656.9	2655.9	2653.9
12.5°	2658.9	2654.9	2650.9	2646.9	2644.8	2643.8	2639.8	2636.8	2633.7	2630.7	2628.7
15°	2638.8	2632.7	2625.7	2617.6	2615.6	2613.6	2606.5	2600.5	2596.5	2593.4	2588.4
17.5°	2598.5	2586.4	2578.3	2566.2	2561.2	2559.2	2548.1	2542.0	2535.0	2533.0	2528.9
20°	2526.9	2515.8	2500.7	2489.6	2483.6	2477.5	2468.4	2460.4	2452.3	2452.3	2447.3
22.5°	2437.2	2423.1	2403.9	2389.8	2388.8	2376.7	2368.7	2359.6	2356.6	2350.5	2350.5
25°	2324.3	2312.2	2291.0	2279.0	2272.9	2269.9	2256.8	2244.7	2238.6	2233.6	2237.6
27.5°	2199.3	2181.2	2165.1	2149.9	2144.9	2138.8	2126.8	2121.7	2110.6	2109.6	2108.6
30°	2056.2	2038.1	2021.9	2014.9	2004.8	1999.8	1990.7	1984.6	1980.6	1980.6	1978.6
32.5°	1906.0	1889.9	1881.8	1866.7	1861.7	1854.6	1848.6	1842.5	1844.5	1842.5	1843.5
35°	1743.7	1739.7	1724.6	1715.5	1715.5	1714.5	1704.4	1700.4	1698.4	1699.4	1704.4
37.5°	1589.5	1577.4	1567.3	1561.3	1566.3	1560.3	1559.3	1559.3	1565.3	1561.3	1569.4
40°	1425.2	1424.2	1420.2	1422.2	1423.2	1416.2	1418.2	1419.2	1423.2	1431.3	1432.3
42.5°	1282.1	1281.1	1281.1	1281.1	1279.1	1275.0	1279.1	1286.1	1285.1	1291.2	1296.2
45°	1144.0	1142.0	1146.0	1143.0	1149.1	1151.1	1148.0	1150.1	1156.1	1160.1	1168.2
47.5°	1018.0	1018.0	1019.0	1021.0	1015.0	1020.0	1022.1	1026.1	1029.1	1031.1	1035.2
50°	901.1	901.1	899.1	899.1	899.1	902.1	898.1	903.1	904.1	912.2	917.2
52.5°	793.2	788.2	791.2	789.2	785.2	783.2	785.2	786.2	792.2	794.3	800.3
55°	690.4	690.4	682.4	680.4	683.4	682.4	681.4	681.4	684.4	687.4	692.5
57.5°	599.7	593.7	587.6	586.6	583.6	584.6	584.6	583.6	581.6	582.6	583.6
60°	514.0	510.0	500.9	500.9	499.9	498.9	493.9	492.9	487.8	488.9	484.8
62.5°	435.4	433.4	421.3	417.3	417.3	414.3	409.2	408.2	401.2	401.2	397.1
65°	364.9	358.8	351.8	344.7	344.7	340.7	337.7	328.6	323.5	320.5	314.5
67.5°	300.4	291.3	284.2	278.2	274.2	273.2	266.1	260.0	252.0	246.9	237.9
70°	237.9	230.8	223.8	217.7	213.7	209.7	202.6	193.5	187.5	178.4	172.4
72.5°	179.4	173.4	167.3	159.3	154.2	151.2	144.1	136.1	126.0	119.9	111.9
75°	129.0	122.0	113.9	106.8	103.8	100.8	92.7	86.7	79.6	72.6	64.5
77.5°	83.7	75.6	69.5	61.5	60.5	58.5	50.4	44.3	39.3	35.3	30.2
80°	44.3	40.3	35.3	30.2	28.2	25.2	21.2	18.1	15.1	12.1	10.1
82.5°	19.2	16.1	13.1	11.1	10.1	9.1	7.1	6.0	5.0	5.0	4.0
85°	5.0	4.0	4.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	1.0	1.0	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°	2684.1	2684.1	2684.1	2684.1	2684.1	2684.1	2684.1	2684.1	2684.1	2684.1	2684.1
2.5°	2684.1	2685.2	2686.2	2686.2	2687.2	2688.2	2688.2	2689.2	2690.2	2691.2	2691.2
5°	2679.1	2679.1	2679.1	2680.1	2680.1	2680.1	2680.1	2682.1	2682.1	2683.1	2684.1
7.5°	2669.0	2669.0	2669.0	2669.0	2668.0	2669.0	2668.0	2668.0	2670.0	2671.0	2672.1
10°	2652.9	2651.9	2651.9	2650.9	2650.9	2650.9	2651.9	2652.9	2653.9	2654.9	2657.9
12.5°	2627.7	2626.7	2626.7	2625.7	2625.7	2626.7	2627.7	2629.7	2633.7	2635.8	2639.8
15°	2587.4	2586.4	2587.4	2588.4	2590.4	2593.4	2596.5	2599.5	2605.5	2610.6	2615.6
17.5°	2528.9	2529.9	2530.9	2533.0	2536.0	2540.0	2548.1	2556.1	2563.2	2571.3	2579.3
20°	2448.3	2452.3	2453.3	2460.4	2462.4	2471.5	2480.5	2492.6	2503.7	2513.8	2524.9
22.5°	2351.5	2354.5	2358.6	2366.6	2371.7	2383.8	2394.9	2409.0	2421.1	2434.2	2450.3
25°	2241.7	2242.7	2254.8	2254.8	2266.9	2276.9	2290.0	2305.2	2323.3	2340.4	2351.5
27.5°	2116.7	2121.7	2130.8	2134.8	2143.9	2160.0	2171.1	2189.2	2207.4	2222.5	2234.6
30°	1985.6	1989.7	2004.8	2006.8	2013.9	2028.0	2043.1	2060.2	2074.3	2091.5	2102.6
32.5°	1847.6	1858.6	1867.7	1874.8	1876.8	1898.0	1906.0	1918.1	1934.2	1951.4	1962.5
35°	1713.5	1718.5	1731.6	1735.7	1741.7	1753.8	1769.9	1780.0	1788.1	1799.2	1812.3
37.5°	1571.4	1586.5	1589.5	1601.6	1603.6	1614.7	1622.8	1634.9	1645.0	1655.0	1657.1
40°	1439.3	1444.4	1455.5	1458.5	1460.5	1475.6	1485.7	1488.7	1493.8	1502.8	1514.9
42.5°	1305.3	1310.3	1322.4	1319.4	1328.5	1335.5	1340.6	1352.7	1357.7	1360.7	1360.7
45°	1173.2	1175.3	1183.3	1187.4	1192.4	1196.4	1205.5	1211.5	1213.6	1222.6	1225.7
47.5°	1047.3	1049.3	1055.3	1062.4	1060.4	1065.4	1075.5	1078.5	1079.5	1085.6	1088.6
50°	923.3	928.3	936.4	934.4	940.4	943.4	952.5	954.5	954.5	955.5	956.5
52.5°	807.4	811.4	813.4	815.4	818.4	823.5	827.5	825.5	829.5	833.6	830.5
55°	692.5	695.5	700.5	702.5	702.5	703.5	701.5	710.6	706.6	705.6	706.6
57.5°	587.6	583.6	582.6	587.6	589.6	588.6	585.6	589.6	589.6	587.6	584.6
60°	485.8	482.8	481.8	482.8	478.8	475.7	477.8	475.7	470.7	468.7	469.7
62.5°	393.1	390.1	382.0	382.0	380.0	379.0	370.9	371.9	367.9	361.9	363.9
65°	307.4	299.4	295.3	294.3	287.3	281.2	279.2	272.1	266.1	265.1	266.1
67.5°	230.8	221.7	214.7	211.7	207.6	202.6	195.5	189.5	191.5	190.5	194.5
70°	160.3	154.2	147.2	142.1	144.1	138.1	134.1	134.1	135.1	136.1	138.1
72.5°	106.8	98.8	95.8	92.7	90.7	86.7	88.7	88.7	87.7	88.7	86.7
75°	60.5	56.4	53.4	52.4	50.4	50.4	50.4	50.4	49.4	48.4	48.4
77.5°	27.2	25.2	24.2	23.2	23.2	23.2	22.2	21.2	21.2	21.2	20.2
80°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
82.5°	4.0	4.0	5.0	5.0	5.0	4.0	5.0	5.0	4.0	4.0	5.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0	1.0	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: P859216

CATALOG NUMBER: LX4C60D010 EX4C609035 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2684.1	2684.1	2684.1	2684.1	2684.1	2684.1	2684.1	2684.1
2.5°	2692.2	2693.2	2693.2	2693.2	2694.2	2694.2	2694.2	2694.2
5°	2685.2	2686.2	2686.2	2686.2	2687.2	2687.2	2687.2	2687.2
7.5°	2673.1	2674.1	2674.1	2675.1	2675.1	2676.1	2676.1	2677.1
10°	2658.9	2661.0	2662.0	2663.0	2664.0	2665.0	2665.0	2666.0
12.5°	2643.8	2645.8	2646.9	2648.9	2650.9	2651.9	2652.9	2653.9
15°	2621.7	2625.7	2627.7	2628.7	2632.7	2634.8	2635.8	2636.8
17.5°	2586.4	2594.4	2597.5	2599.5	2603.5	2607.5	2610.6	2611.6
20°	2536.0	2545.0	2549.1	2554.1	2560.2	2565.2	2567.2	2569.2
22.5°	2465.4	2475.5	2481.5	2487.6	2492.6	2497.7	2505.7	2502.7
25°	2364.6	2381.8	2388.8	2391.8	2402.9	2409.0	2413.0	2409.0
27.5°	2251.7	2261.8	2267.9	2274.9	2283.0	2289.0	2291.0	2297.1
30°	2115.7	2132.8	2131.8	2138.8	2148.9	2155.0	2157.0	2162.0
32.5°	1974.6	1982.6	1988.7	1987.7	1991.7	2002.8	1998.7	2007.8
35°	1824.4	1825.4	1835.5	1834.5	1842.5	1842.5	1842.5	1848.6
37.5°	1664.1	1676.2	1671.2	1683.3	1679.2	1682.3	1682.3	1684.3
40°	1518.0	1522.0	1522.0	1526.0	1529.0	1526.0	1528.0	1533.1
42.5°	1366.8	1370.8	1371.8	1369.8	1372.8	1381.9	1374.8	1380.9
45°	1225.7	1228.7	1232.7	1229.7	1234.7	1231.7	1234.7	1232.7
47.5°	1092.6	1091.6	1090.6	1098.7	1091.6	1092.6	1096.6	1089.6
50°	956.5	962.6	958.6	961.6	963.6	963.6	960.6	960.6
52.5°	835.6	834.6	831.6	834.6	832.6	833.6	835.6	833.6
55°	710.6	714.6	712.6	711.6	712.6	712.6	718.7	710.6
57.5°	587.6	585.6	588.6	595.7	588.6	593.7	596.7	597.7
60°	470.7	470.7	476.8	473.7	479.8	484.8	488.9	486.8
62.5°	358.8	363.9	365.9	366.9	372.9	377.0	377.0	376.0
65°	266.1	273.2	273.2	277.2	279.2	279.2	281.2	285.2
67.5°	196.5	196.5	197.6	199.6	198.6	198.6	200.6	201.6
70°	137.1	135.1	138.1	137.1	137.1	136.1	137.1	137.1
72.5°	86.7	86.7	87.7	86.7	84.7	85.7	85.7	87.7
75°	46.4	48.4	46.4	46.4	47.4	45.4	46.4	47.4
77.5°	19.2	19.2	19.2	19.2	19.2	18.1	18.1	18.1
80°	9.1	9.1	9.1	9.1	9.1	9.1	8.1	8.1
82.5°	4.0	5.0	4.0	5.0	4.0	4.0	4.0	4.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	0.0	1.0	0.0	1.0	0.0	0.0	0.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)