

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P252513

Luminaire Tested: **LE_6B50D010R EC6B30509035 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B50D010R EC6B30509035 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4913.7 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

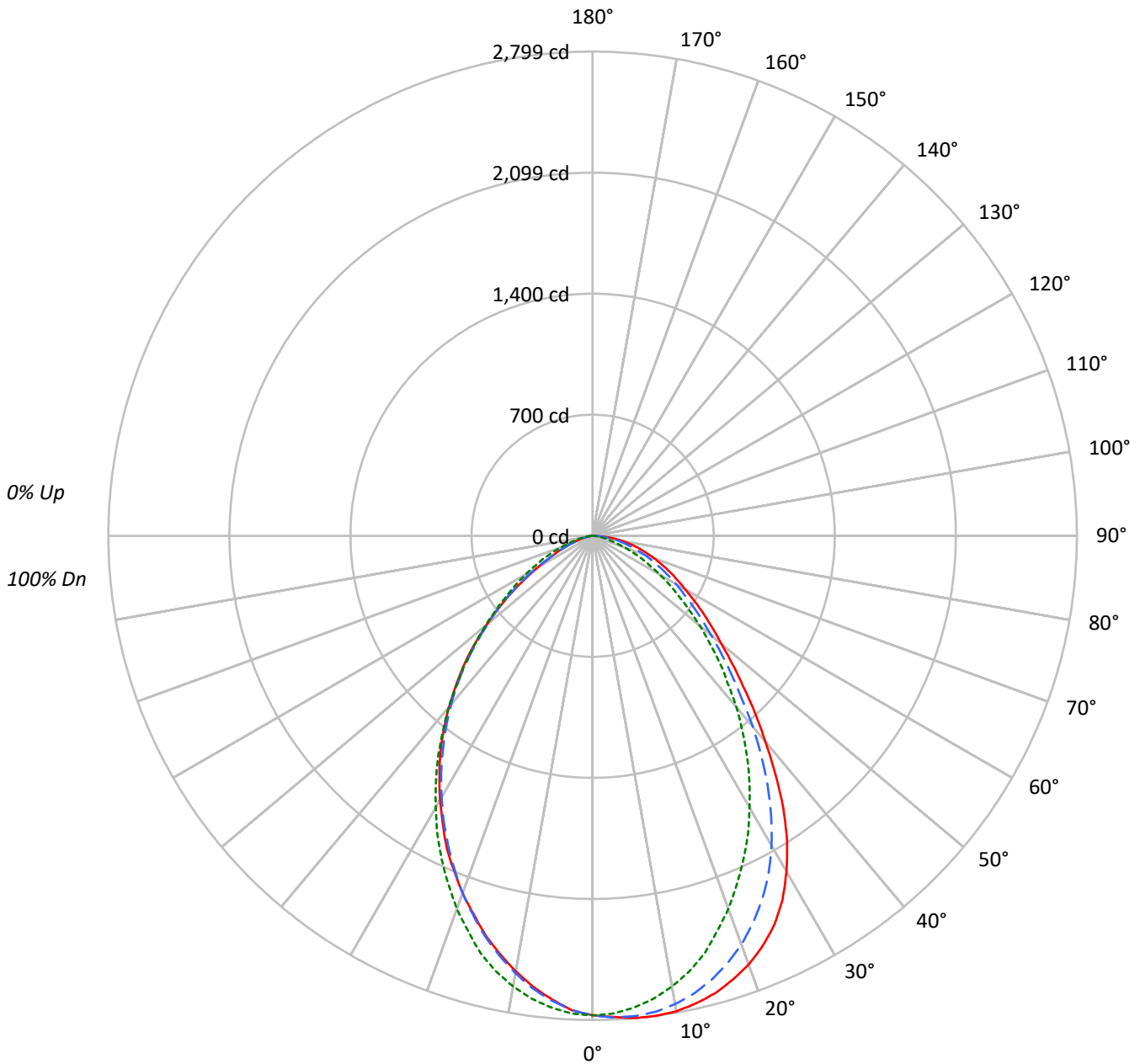
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88																			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77																			
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39																			
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35																			
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	180854	180854	180854
5°	183306	179272	176246
10°	184922	175223	169361
15°	184890	168774	161486
20°	183108	159309	152630
25°	178768	148548	143567
30°	168807	136610	132843
35°	153012	123886	122349
40°	132143	110170	109847
45°	113310	95909	96619
50°	98472	82060	80893
55°	88470	69202	64822
60°	80376	58273	47730
65°	75488	48149	35058
70°	71951	37463	25713
75°	68916	27173	17443
80°	65072	18785	11572
85°	57639	11528	5839



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.3	5.3
10°-20°	710.2	14.5
20°-30°	985.9	20.1
30°-40°	1021.2	20.8
40°-50°	839.2	17.1
50°-60°	576.8	11.7
60°-70°	331.5	6.7
70°-80°	152.4	3.1
80°-90°	37.1	0.8
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°	1955.4	39.8
0°-40°	2976.7	60.6
0°-60°	4392.7	89.4
0°-90°	4913.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4913.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2772	2772	2772	2772	2772	
5°	2799	2788	2737	2699	2691	267
15°	2737	2657	2499	2399	2391	771
25°	2483	2318	2064	1975	1994	1136
35°	1921	1763	1556	1509	1536	1191
45°	1228	1136	1040	1028	1047	956
55°	778	705	608	574	570	700
65°	489	427	312	220	227	487
75°	273	216	108	69	69	289
85°	77	54	15	8	8	86
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°	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1
2.5°	2783.6	2806.8	2791.4	2787.5	2795.1	2795.1	2795.1	2783.6	2791.4	2779.8	2787.5
5°	2799.0	2818.2	2802.9	2795.1	2802.9	2806.8	2795.1	2787.5	2799.0	2783.6	2787.5
7.5°	2799.0	2818.2	2802.9	2799.0	2802.9	2802.9	2799.0	2783.6	2791.4	2775.9	2775.9
10°	2791.4	2806.8	2791.4	2783.6	2787.5	2783.6	2783.6	2764.4	2768.2	2749.0	2749.0
12.5°	2768.2	2787.5	2768.2	2760.5	2760.5	2760.5	2749.0	2733.6	2737.4	2714.4	2710.5
15°	2737.4	2752.9	2733.6	2725.9	2725.9	2722.0	2714.4	2691.2	2691.2	2668.1	2656.6
17.5°	2691.2	2706.6	2691.2	2679.6	2675.9	2668.1	2660.4	2637.4	2629.6	2602.6	2591.1
20°	2637.4	2648.9	2633.5	2621.9	2614.2	2606.5	2591.1	2568.0	2560.4	2533.4	2514.1
22.5°	2568.0	2583.4	2560.4	2548.8	2541.1	2529.5	2514.1	2491.0	2479.5	2444.9	2421.8
25°	2483.4	2491.0	2471.8	2460.2	2444.9	2437.1	2425.6	2394.8	2383.2	2344.8	2317.8
27.5°	2375.5	2383.2	2360.1	2352.4	2333.1	2325.5	2310.1	2283.1	2267.8	2229.2	2202.2
30°	2240.8	2248.5	2233.1	2221.5	2206.1	2190.8	2179.1	2152.2	2129.1	2090.6	2067.5
32.5°	2090.6	2102.1	2086.8	2071.4	2044.4	2048.2	2029.0	2002.0	1982.8	1948.1	1921.2
35°	1921.2	1928.9	1909.6	1905.8	1890.4	1875.0	1855.8	1836.5	1825.0	1786.5	1763.4
37.5°	1732.5	1751.8	1732.5	1717.1	1709.5	1697.9	1686.4	1659.4	1651.8	1628.6	1597.8
40°	1551.6	1563.1	1551.6	1536.2	1524.6	1524.6	1509.2	1493.9	1474.6	1451.5	1440.0
42.5°	1389.9	1382.2	1378.4	1370.6	1355.2	1351.4	1347.5	1328.2	1316.8	1293.6	1274.4
45°	1228.1	1232.0	1224.4	1220.5	1208.9	1201.2	1193.5	1178.1	1174.2	1151.1	1135.8
47.5°	1093.4	1089.6	1081.9	1081.9	1074.1	1066.5	1058.8	1047.2	1043.4	1024.1	1008.8
50°	970.2	974.1	970.2	966.4	954.9	951.0	943.2	935.6	927.9	908.6	893.2
52.5°	870.1	866.2	862.4	862.4	850.9	847.0	839.4	831.6	823.9	804.6	793.1
55°	777.8	777.8	773.9	770.0	758.5	754.6	750.8	743.1	731.5	716.1	704.6
57.5°	693.0	693.0	689.1	685.4	677.6	677.6	669.9	662.2	654.5	639.1	623.8
60°	616.0	619.9	616.0	612.1	604.5	604.5	600.6	589.1	585.2	566.0	554.4
62.5°	550.6	550.6	550.6	546.8	542.9	535.1	535.1	523.6	515.9	504.4	489.0
65°	489.0	489.0	489.0	485.1	477.4	473.6	469.8	462.0	454.4	442.8	427.4
67.5°	431.2	431.2	431.2	427.4	419.6	415.8	412.0	408.1	396.5	385.0	369.6
70°	377.2	377.2	373.5	369.6	365.8	361.9	358.0	350.4	342.6	327.2	315.8
72.5°	323.4	323.4	323.4	315.8	311.9	311.9	304.1	300.2	292.6	277.2	265.6
75°	273.4	269.5	269.5	265.6	261.8	258.0	254.1	250.2	238.8	231.0	215.6
77.5°	223.2	223.2	219.5	215.6	215.6	211.8	207.9	200.2	196.4	184.8	173.2
80°	173.2	173.2	173.2	173.2	169.4	165.5	165.5	157.9	154.0	142.5	134.8
82.5°	130.9	127.0	127.0	127.0	123.2	119.4	119.4	115.5	111.6	104.0	96.2
85°	77.0	73.1	73.1	73.1	69.2	69.2	65.5	65.5	61.6	53.9	53.9
87.5°	23.1	23.1	27.0	27.0	23.1	23.1	23.1	23.1	23.1	19.2	19.2
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°	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1
2.5°	2779.8	2791.4	2775.9	2772.1	2787.5	2779.8	2775.9	2768.2	2772.1	2764.4	2752.9
5°	2775.9	2791.4	2772.1	2760.5	2779.8	2768.2	2760.5	2752.9	2752.9	2737.4	2729.8
7.5°	2764.4	2772.1	2752.9	2741.2	2752.9	2741.2	2733.6	2722.0	2718.1	2698.9	2687.4
10°	2733.6	2741.2	2718.1	2702.8	2714.4	2698.9	2687.4	2675.9	2668.1	2645.0	2629.6
12.5°	2691.2	2695.1	2668.1	2648.9	2656.6	2645.0	2625.8	2610.4	2602.6	2579.6	2560.4
15°	2633.5	2637.4	2606.5	2579.6	2587.2	2571.9	2548.8	2533.4	2521.9	2498.8	2471.8
17.5°	2564.1	2560.4	2525.6	2498.8	2502.6	2483.4	2460.2	2437.1	2421.8	2394.8	2375.5
20°	2487.1	2475.6	2437.1	2406.4	2410.1	2387.1	2360.1	2337.0	2317.8	2294.6	2267.8
22.5°	2390.9	2375.5	2340.9	2302.4	2306.2	2287.0	2248.5	2229.2	2210.0	2179.1	2156.1
25°	2287.0	2263.9	2229.2	2190.8	2190.8	2167.6	2136.9	2113.8	2094.5	2063.6	2036.8
27.5°	2163.8	2152.2	2106.0	2075.2	2071.4	2048.2	2021.2	1994.4	1971.2	1944.2	1917.4
30°	2029.0	2009.8	1975.1	1940.5	1932.8	1913.5	1886.5	1855.8	1840.4	1813.4	1790.2
32.5°	1886.5	1867.2	1828.8	1794.1	1790.2	1774.9	1751.8	1721.0	1705.6	1686.4	1671.0
35°	1724.9	1717.1	1678.6	1651.8	1651.8	1636.2	1613.2	1586.2	1574.8	1555.5	1536.2
37.5°	1570.9	1559.2	1524.6	1501.5	1501.5	1482.2	1459.2	1447.6	1436.1	1420.8	1409.1
40°	1409.1	1401.5	1374.5	1351.4	1355.2	1339.9	1324.5	1309.0	1301.4	1293.6	1282.1
42.5°	1259.0	1251.2	1232.0	1212.8	1212.8	1201.2	1185.9	1174.2	1166.6	1155.0	1151.1
45°	1124.2	1112.6	1097.2	1078.0	1078.0	1066.5	1058.8	1051.1	1047.2	1039.5	1028.0
47.5°	993.4	985.6	970.2	951.0	951.0	951.0	935.6	924.0	924.0	916.4	912.5
50°	881.6	870.1	858.6	843.1	843.1	835.5	823.9	812.4	812.4	808.5	800.9
52.5°	777.8	770.0	754.6	739.2	739.2	731.5	720.0	716.1	712.2	700.8	696.9
55°	689.1	681.5	669.9	650.6	646.9	643.0	631.4	623.8	619.9	608.4	608.4
57.5°	608.4	600.6	581.4	569.9	566.0	558.2	546.8	539.0	535.1	527.5	519.8
60°	539.0	527.5	512.1	496.6	492.9	485.1	473.6	465.9	462.0	446.6	438.9
62.5°	473.6	462.0	446.6	431.2	427.4	419.6	404.2	396.5	388.9	373.5	365.8
65°	412.0	400.4	385.0	369.6	361.9	358.0	342.6	331.1	323.4	311.9	296.5
67.5°	354.2	342.6	327.2	308.0	308.0	296.5	284.9	273.4	261.8	250.2	238.8
70°	300.2	288.8	273.4	258.0	254.1	246.4	234.9	219.5	211.8	196.4	184.8
72.5°	250.2	238.8	223.2	207.9	204.0	196.4	184.8	169.4	157.9	146.2	134.8
75°	204.0	192.5	177.1	165.5	161.8	154.0	142.5	127.0	115.5	107.8	96.2
77.5°	161.8	150.1	138.6	127.0	123.2	115.5	104.0	96.2	84.8	77.0	65.5
80°	123.2	115.5	104.0	96.2	92.4	84.8	77.0	65.5	57.8	50.0	46.2
82.5°	88.5	80.9	73.1	61.6	61.6	53.9	50.0	42.4	34.6	30.8	27.0
85°	50.0	42.4	38.5	34.6	30.8	30.8	27.0	23.1	19.2	15.4	15.4
87.5°	15.4	15.4	11.5	11.5	11.5	11.5	7.8	7.8	7.8	7.8	7.8
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°	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1
2.5°	2752.9	2756.6	2749.0	2756.6	2749.0	2752.9	2745.1	2752.9	2745.1	2752.9	2737.4
5°	2725.9	2725.9	2714.4	2722.0	2714.4	2718.1	2702.8	2706.6	2698.9	2706.6	2691.2
7.5°	2679.6	2683.5	2664.2	2672.0	2660.4	2660.4	2648.9	2652.8	2641.1	2645.0	2633.5
10°	2625.8	2621.9	2602.6	2610.4	2595.0	2595.0	2583.4	2583.4	2568.0	2571.9	2556.5
12.5°	2548.8	2544.9	2521.9	2529.5	2514.1	2514.1	2502.6	2502.6	2487.1	2494.9	2479.5
15°	2460.2	2456.4	2433.2	2437.1	2421.8	2421.8	2406.4	2410.1	2398.6	2406.4	2390.9
17.5°	2360.1	2356.2	2333.1	2337.0	2317.8	2321.6	2310.1	2306.2	2298.5	2302.4	2290.9
20°	2256.1	2248.5	2225.4	2229.2	2221.5	2210.0	2202.2	2206.1	2198.4	2206.1	2194.6
22.5°	2148.4	2133.0	2113.8	2113.8	2106.0	2106.0	2094.5	2102.1	2086.8	2098.2	2090.6
25°	2025.1	2013.6	1998.2	2005.9	1990.5	1990.5	1979.0	1982.8	1975.1	1982.8	1975.1
27.5°	1905.8	1898.1	1875.0	1882.8	1871.1	1875.0	1863.5	1867.2	1863.5	1871.1	1863.5
30°	1778.8	1774.9	1759.5	1759.5	1755.6	1751.8	1748.0	1748.0	1744.1	1755.6	1748.0
32.5°	1659.4	1647.9	1632.5	1644.0	1624.8	1636.2	1628.6	1636.2	1628.6	1636.2	1632.5
35°	1536.2	1532.4	1513.1	1517.0	1513.1	1513.1	1509.2	1509.2	1509.2	1520.8	1520.8
37.5°	1405.2	1401.5	1389.9	1393.8	1386.0	1382.2	1382.2	1389.9	1389.9	1397.6	1397.6
40°	1278.2	1282.1	1270.5	1270.5	1266.8	1266.8	1266.8	1274.4	1270.5	1278.2	1274.4
42.5°	1151.1	1151.1	1139.6	1143.5	1139.6	1143.5	1143.5	1151.1	1151.1	1155.0	1151.1
45°	1031.9	1031.9	1028.0	1031.9	1024.1	1028.0	1024.1	1031.9	1028.0	1031.9	1031.9
47.5°	912.5	912.5	912.5	908.6	908.6	908.6	908.6	908.6	904.8	912.5	908.6
50°	800.9	804.6	800.9	800.9	797.0	800.9	797.0	797.0	789.2	793.1	793.1
52.5°	700.8	700.8	693.0	693.0	693.0	689.1	689.1	689.1	685.4	685.4	677.6
55°	604.5	604.5	596.8	596.8	592.9	589.1	585.2	585.2	573.6	573.6	562.1
57.5°	515.9	512.1	500.5	500.5	492.9	489.0	485.1	481.2	473.6	465.9	462.0
60°	435.1	427.4	419.6	415.8	408.1	400.4	392.8	385.0	377.2	373.5	369.6
62.5°	358.0	346.5	338.8	335.0	327.2	315.8	308.0	300.2	292.6	288.8	281.0
65°	288.8	277.2	265.6	261.8	254.1	246.4	234.9	227.1	219.5	215.6	215.6
67.5°	227.1	215.6	200.2	200.2	192.5	184.8	177.1	169.4	165.5	169.4	169.4
70°	169.4	161.8	150.1	146.2	138.6	130.9	127.0	127.0	127.0	130.9	127.0
72.5°	127.0	115.5	107.8	104.0	100.1	96.2	96.2	96.2	92.4	96.2	96.2
75°	88.5	80.9	73.1	73.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2
77.5°	61.6	53.9	50.0	50.0	50.0	46.2	46.2	46.2	46.2	46.2	46.2
80°	38.5	38.5	34.6	34.6	30.8	30.8	30.8	30.8	30.8	30.8	30.8
82.5°	23.1	23.1	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
85°	11.5	11.5	11.5	11.5	11.5	7.8	7.8	7.8	7.8	7.8	7.8
87.5°	3.9	3.9	3.9	3.9	3.9	7.8	7.8	7.8	7.8	7.8	7.8
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: P252513

CATALOG NUMBER: LE_6B50D010R EC6B30509035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1
2.5°	2737.4	2749.0	2733.6	2745.1	2741.2	2737.4	2729.8	2745.1
5°	2691.2	2695.1	2679.6	2695.1	2691.2	2683.5	2675.9	2691.2
7.5°	2625.8	2637.4	2618.1	2633.5	2629.6	2621.9	2614.2	2629.6
10°	2552.6	2564.1	2548.8	2560.4	2560.4	2552.6	2541.1	2556.5
12.5°	2471.8	2479.5	2464.1	2479.5	2475.6	2467.9	2464.1	2475.6
15°	2383.2	2394.8	2379.4	2390.9	2387.1	2383.2	2379.4	2390.9
17.5°	2287.0	2298.5	2287.0	2298.5	2298.5	2287.0	2283.1	2290.9
20°	2190.8	2198.4	2186.9	2198.4	2194.6	2194.6	2186.9	2198.4
22.5°	2082.9	2094.5	2086.8	2094.5	2090.6	2090.6	2086.8	2094.5
25°	1975.1	1986.6	1975.1	1986.6	1982.8	1982.8	1975.1	1994.4
27.5°	1867.2	1875.0	1863.5	1878.9	1875.0	1867.2	1871.1	1875.0
30°	1751.8	1759.5	1751.8	1763.4	1763.4	1763.4	1755.6	1763.4
32.5°	1636.2	1647.9	1636.2	1647.9	1644.0	1644.0	1640.1	1647.9
35°	1520.8	1524.6	1517.0	1528.5	1528.5	1532.4	1524.6	1536.2
37.5°	1401.5	1405.2	1401.5	1405.2	1413.0	1401.5	1409.1	1413.0
40°	1278.2	1286.0	1282.1	1286.0	1286.0	1289.8	1286.0	1289.8
42.5°	1155.0	1162.8	1155.0	1166.6	1162.8	1162.8	1166.6	1166.6
45°	1028.0	1039.5	1031.9	1039.5	1043.4	1039.5	1039.5	1047.2
47.5°	908.6	916.4	912.5	916.4	916.4	916.4	916.4	924.0
50°	789.2	793.1	793.1	797.0	797.0	800.9	793.1	797.0
52.5°	669.9	677.6	677.6	677.6	673.8	677.6	677.6	677.6
55°	562.1	566.0	558.2	566.0	566.0	562.1	562.1	569.9
57.5°	458.1	458.1	458.1	458.1	458.1	454.4	458.1	458.1
60°	361.9	365.8	361.9	361.9	361.9	361.9	358.0	365.8
62.5°	281.0	281.0	277.2	281.0	281.0	281.0	284.9	284.9
65°	219.5	223.2	219.5	223.2	223.2	223.2	223.2	227.1
67.5°	173.2	173.2	173.2	173.2	173.2	173.2	173.2	173.2
70°	130.9	130.9	130.9	134.8	130.9	130.9	130.9	134.8
72.5°	96.2	96.2	96.2	96.2	96.2	96.2	100.1	100.1
75°	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
77.5°	46.2	46.2	46.2	50.0	46.2	50.0	46.2	46.2
80°	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
82.5°	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
85°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
87.5°	7.8	7.8	7.8	7.8	3.9	3.9	3.9	3.9
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)