

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: P252517

Luminaire Tested: **LE_6B50D010R EC6B30509730 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252517
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 EC6B30509730 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4235.0 lumens
Efficiency: N/A
Efficacy: 72.0 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

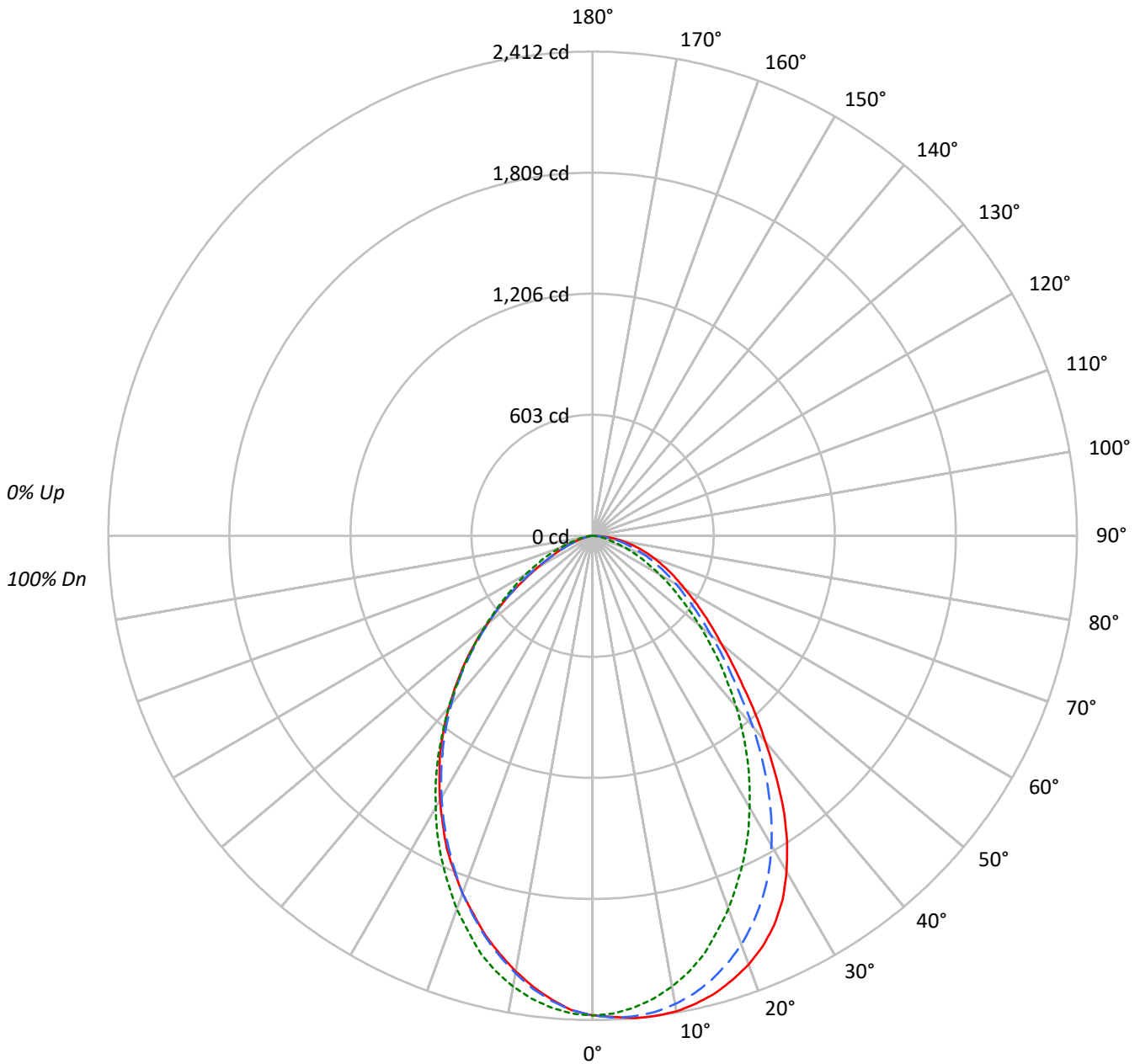
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88			88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77			77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67			67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47			47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43			43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39			39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35			35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	155866	155866	155866
5°	157988	154504	151904
10°	159377	151017	145969
15°	159345	145459	139177
20°	157809	137314	131551
25°	154062	128033	123735
30°	145484	117739	114492
35°	131883	106771	105449
40°	113883	94960	94670
45°	97662	82669	83278
50°	84871	70733	69718
55°	76231	59624	55859
60°	69272	50222	41128
65°	65053	41495	30226
70°	62032	32275	22146
75°	59388	23417	15074
80°	56130	16193	9956
85°	49704	9881	4940



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.5	5.3
10°-20°	612.1	14.5
20°-30°	849.8	20.1
30°-40°	880.2	20.8
40°-50°	723.3	17.1
50°-60°	497.1	11.7
60°-70°	285.8	6.7
70°-80°	131.4	3.1
80°-90°	32.0	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°	1685.3	39.8
0°-40°	2565.5	60.6
0°-60°	3785.9	89.4
0°-90°	4235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4235.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2389	2389	2389	2389	2389	
5°	2412	2402	2359	2326	2320	230
15°	2359	2290	2154	2067	2061	665
25°	2140	1998	1779	1702	1719	979
35°	1656	1520	1341	1301	1324	1027
45°	1058	979	896	886	903	824
55°	670	607	524	494	491	603
65°	421	368	269	189	196	419
75°	236	186	93	60	60	249
85°	66	46	13	7	7	74
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°	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1
2.5°	2399.1	2419.0	2405.8	2402.5	2409.1	2409.1	2409.1	2399.1	2405.8	2395.8	2402.5
5°	2412.4	2429.0	2415.8	2409.1	2415.8	2419.0	2409.1	2402.5	2412.4	2399.1	2402.5
7.5°	2412.4	2429.0	2415.8	2412.4	2415.8	2415.8	2412.4	2399.1	2405.8	2392.5	2392.5
10°	2405.8	2419.0	2405.8	2399.1	2402.5	2399.1	2399.1	2382.5	2385.9	2369.2	2369.2
12.5°	2385.9	2402.5	2385.9	2379.2	2379.2	2379.2	2369.2	2356.0	2359.2	2339.4	2336.1
15°	2359.2	2372.6	2356.0	2349.4	2349.4	2346.0	2339.4	2319.5	2319.5	2299.6	2289.6
17.5°	2319.5	2332.8	2319.5	2309.5	2306.2	2299.6	2292.9	2273.0	2266.4	2243.1	2233.2
20°	2273.0	2283.0	2269.8	2259.8	2253.1	2246.5	2233.2	2213.2	2206.6	2183.4	2166.9
22.5°	2213.2	2226.6	2206.6	2196.8	2190.1	2180.1	2166.9	2146.9	2137.0	2107.1	2087.2
25°	2140.2	2146.9	2130.4	2120.4	2107.1	2100.5	2090.5	2064.0	2054.0	2020.9	1997.6
27.5°	2047.4	2054.0	2034.1	2027.5	2010.9	2004.2	1991.0	1967.8	1954.5	1921.2	1898.0
30°	1931.2	1937.9	1924.6	1914.6	1901.4	1888.1	1878.1	1854.9	1835.0	1801.9	1781.9
32.5°	1801.9	1811.8	1798.5	1785.2	1762.0	1765.4	1748.8	1725.5	1708.9	1679.0	1655.9
35°	1655.9	1662.5	1645.9	1642.5	1629.2	1616.0	1599.4	1582.9	1572.9	1539.6	1519.8
37.5°	1493.2	1509.9	1493.2	1480.0	1473.4	1463.4	1453.4	1430.1	1423.5	1403.6	1377.1
40°	1337.2	1347.2	1337.2	1324.0	1314.0	1314.0	1300.8	1287.5	1270.9	1251.0	1241.0
42.5°	1197.9	1191.2	1188.0	1181.2	1168.0	1164.8	1161.4	1144.8	1134.9	1115.0	1098.4
45°	1058.5	1061.9	1055.2	1051.9	1042.0	1035.2	1028.6	1015.4	1012.1	992.1	978.9
47.5°	942.4	939.1	932.5	932.5	925.8	919.1	912.5	902.6	899.2	882.6	869.4
50°	836.2	839.5	836.2	832.9	822.9	819.6	813.0	806.4	799.8	783.1	769.9
52.5°	749.9	746.6	743.2	743.2	733.4	730.0	723.4	716.8	710.1	693.5	683.6
55°	670.2	670.2	667.0	663.6	653.8	650.4	647.1	640.4	630.5	617.2	607.2
57.5°	597.2	597.2	594.0	590.6	584.0	584.0	577.4	570.8	564.1	550.9	537.6
60°	530.9	534.2	530.9	527.6	521.0	521.0	517.6	507.8	504.4	487.8	477.9
62.5°	474.5	474.5	474.5	471.2	467.9	461.2	461.2	451.2	444.6	434.8	421.4
65°	421.4	421.4	421.4	418.1	411.5	408.1	404.9	398.2	391.5	381.6	368.4
67.5°	371.6	371.6	371.6	368.4	361.8	358.4	355.0	351.8	341.8	331.9	318.5
70°	325.2	325.2	321.9	318.5	315.2	311.9	308.6	302.0	295.4	282.0	272.1
72.5°	278.8	278.8	278.8	272.1	268.8	268.8	262.1	258.9	252.2	238.9	229.0
75°	235.6	232.2	232.2	229.0	225.6	222.4	219.0	215.8	205.8	199.1	185.9
77.5°	192.5	192.5	189.1	185.9	185.9	182.5	179.2	172.5	169.2	159.2	149.4
80°	149.4	149.4	149.4	149.4	146.0	142.6	142.6	136.0	132.8	122.8	116.1
82.5°	112.9	109.5	109.5	109.5	106.1	102.9	102.9	99.5	96.2	89.6	83.0
85°	66.4	63.0	63.0	63.0	59.8	59.8	56.4	56.4	53.1	46.5	46.5
87.5°	19.9	19.9	23.2	23.2	19.9	19.9	19.9	19.9	19.9	16.6	16.6
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°	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1
2.5°	2395.8	2405.8	2392.5	2389.1	2402.5	2395.8	2392.5	2385.9	2389.1	2382.5	2372.6
5°	2392.5	2405.8	2389.1	2379.2	2395.8	2385.9	2379.2	2372.6	2372.6	2359.2	2352.6
7.5°	2382.5	2389.1	2372.6	2362.6	2372.6	2362.6	2356.0	2346.0	2342.8	2326.1	2316.1
10°	2356.0	2362.6	2342.8	2329.5	2339.4	2326.1	2316.1	2306.2	2299.6	2279.6	2266.4
12.5°	2319.5	2322.8	2299.6	2283.0	2289.6	2279.6	2263.1	2249.8	2243.1	2223.2	2206.6
15°	2269.8	2273.0	2246.5	2223.2	2229.9	2216.6	2196.8	2183.4	2173.5	2153.6	2130.4
17.5°	2210.0	2206.6	2176.8	2153.6	2156.9	2140.2	2120.4	2100.5	2087.2	2064.0	2047.4
20°	2143.6	2133.6	2100.5	2073.9	2077.2	2057.4	2034.1	2014.2	1997.6	1977.8	1954.5
22.5°	2060.6	2047.4	2017.5	1984.4	1987.6	1971.1	1937.9	1921.2	1904.8	1878.1	1858.2
25°	1971.1	1951.1	1921.2	1888.1	1888.1	1868.2	1841.6	1821.8	1805.1	1778.6	1755.4
27.5°	1864.9	1854.9	1815.1	1788.5	1785.2	1765.4	1742.1	1718.9	1699.0	1675.8	1652.5
30°	1748.8	1732.1	1702.2	1672.4	1665.8	1649.2	1626.0	1599.4	1586.1	1562.9	1543.0
32.5°	1626.0	1609.4	1576.1	1546.4	1543.0	1529.8	1509.9	1483.2	1470.0	1453.4	1440.1
35°	1486.6	1480.0	1446.8	1423.5	1423.5	1410.2	1390.4	1367.1	1357.1	1340.6	1324.0
37.5°	1353.9	1343.9	1314.0	1294.1	1294.1	1277.5	1257.6	1247.6	1237.8	1224.5	1214.5
40°	1214.5	1207.9	1184.6	1164.8	1168.0	1154.8	1141.5	1128.2	1121.6	1115.0	1105.0
42.5°	1085.1	1078.5	1061.9	1045.2	1045.2	1035.2	1022.0	1012.1	1005.5	995.5	992.1
45°	969.0	959.0	945.8	929.1	929.1	919.1	912.5	905.9	902.6	896.0	886.0
47.5°	856.1	849.5	836.2	819.6	819.6	819.6	806.4	796.4	796.4	789.8	786.4
50°	759.9	749.9	740.0	726.8	726.8	720.1	710.1	700.1	700.1	696.9	690.2
52.5°	670.2	663.6	650.4	637.1	637.1	630.5	620.5	617.2	613.9	603.9	600.6
55°	594.0	587.4	577.4	560.8	557.5	554.1	544.2	537.6	534.2	524.2	524.2
57.5°	524.2	517.6	501.0	491.1	487.8	481.1	471.2	464.5	461.2	454.6	448.0
60°	464.5	454.6	441.4	428.0	424.8	418.1	408.1	401.5	398.2	384.9	378.2
62.5°	408.1	398.2	384.9	371.6	368.4	361.8	348.4	341.8	335.1	321.9	315.2
65°	355.0	345.1	331.9	318.5	311.9	308.6	295.4	285.4	278.8	268.8	255.5
67.5°	305.2	295.4	282.0	265.5	265.5	255.5	245.5	235.6	225.6	215.8	205.8
70°	258.9	248.9	235.6	222.4	219.0	212.4	202.4	189.1	182.5	169.2	159.2
72.5°	215.8	205.8	192.5	179.2	175.9	169.2	159.2	146.0	136.0	126.1	116.1
75°	175.9	165.9	152.6	142.6	139.4	132.8	122.8	109.5	99.5	92.9	83.0
77.5°	139.4	129.4	119.5	109.5	106.1	99.5	89.6	83.0	73.0	66.4	56.4
80°	106.1	99.5	89.6	83.0	79.6	73.0	66.4	56.4	49.8	43.1	39.9
82.5°	76.4	69.6	63.0	53.1	53.1	46.5	43.1	36.5	29.9	26.5	23.2
85°	43.1	36.5	33.1	29.9	26.5	26.5	23.2	19.9	16.6	13.2	13.2
87.5°	13.2	13.2	10.0	10.0	10.0	10.0	6.6	6.6	6.6	6.6	6.6
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°	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1
2.5°	2372.6	2375.9	2369.2	2375.9	2369.2	2372.6	2366.0	2372.6	2366.0	2372.6	2359.2
5°	2349.4	2349.4	2339.4	2346.0	2339.4	2342.8	2329.5	2332.8	2326.1	2332.8	2319.5
7.5°	2309.5	2312.9	2296.2	2302.9	2292.9	2292.9	2283.0	2286.2	2276.4	2279.6	2269.8
10°	2263.1	2259.8	2243.1	2249.8	2236.5	2236.5	2226.6	2226.6	2213.2	2216.6	2203.4
12.5°	2196.8	2193.4	2173.5	2180.1	2166.9	2166.9	2156.9	2156.9	2143.6	2150.2	2137.0
15°	2120.4	2117.1	2097.1	2100.5	2087.2	2087.2	2073.9	2077.2	2067.2	2073.9	2060.6
17.5°	2034.1	2030.8	2010.9	2014.2	1997.6	2000.9	1991.0	1987.6	1981.0	1984.4	1974.4
20°	1944.5	1937.9	1918.0	1921.2	1914.6	1904.8	1898.0	1901.4	1894.8	1901.4	1891.4
22.5°	1851.6	1838.4	1821.8	1821.8	1815.1	1815.1	1805.1	1811.8	1798.5	1808.5	1801.9
25°	1745.4	1735.5	1722.2	1728.9	1715.5	1715.5	1705.6	1708.9	1702.2	1708.9	1702.2
27.5°	1642.5	1635.9	1616.0	1622.6	1612.8	1616.0	1606.0	1609.4	1606.0	1612.8	1606.0
30°	1533.0	1529.8	1516.5	1516.5	1513.1	1509.9	1506.5	1506.5	1503.1	1513.1	1506.5
32.5°	1430.1	1420.2	1407.0	1416.9	1400.4	1410.2	1403.6	1410.2	1403.6	1410.2	1407.0
35°	1324.0	1320.6	1304.1	1307.4	1304.1	1304.1	1300.8	1300.8	1300.8	1310.8	1310.8
37.5°	1211.1	1207.9	1197.9	1201.2	1194.6	1191.2	1191.2	1197.9	1197.9	1204.5	1204.5
40°	1101.6	1105.0	1095.0	1095.0	1091.8	1091.8	1091.8	1098.4	1095.0	1101.6	1098.4
42.5°	992.1	992.1	982.2	985.5	982.2	985.5	985.5	992.1	992.1	995.5	992.1
45°	889.2	889.2	886.0	889.2	882.6	886.0	882.6	889.2	886.0	889.2	889.2
47.5°	786.4	786.4	786.4	783.1	783.1	783.1	783.1	783.1	779.8	786.4	783.1
50°	690.2	693.5	690.2	690.2	686.9	690.2	686.9	686.9	680.2	683.6	683.6
52.5°	603.9	603.9	597.2	597.2	597.2	594.0	594.0	594.0	590.6	590.6	584.0
55°	521.0	521.0	514.4	514.4	511.0	507.8	504.4	504.4	494.4	494.4	484.5
57.5°	444.6	441.4	431.4	431.4	424.8	421.4	418.1	414.8	408.1	401.5	398.2
60°	375.0	368.4	361.8	358.4	351.8	345.1	338.5	331.9	325.2	321.9	318.5
62.5°	308.6	298.6	292.0	288.8	282.0	272.1	265.5	258.9	252.2	248.9	242.2
65°	248.9	238.9	229.0	225.6	219.0	212.4	202.4	195.8	189.1	185.9	185.9
67.5°	195.8	185.9	172.5	172.5	165.9	159.2	152.6	146.0	142.6	146.0	146.0
70°	146.0	139.4	129.4	126.1	119.5	112.9	109.5	109.5	109.5	112.9	109.5
72.5°	109.5	99.5	92.9	89.6	86.2	83.0	83.0	83.0	79.6	83.0	83.0
75°	76.4	69.6	63.0	63.0	59.8	59.8	59.8	59.8	59.8	59.8	59.8
77.5°	53.1	46.5	43.1	43.1	43.1	39.9	39.9	39.9	39.9	39.9	39.9
80°	33.1	33.1	29.9	29.9	26.5	26.5	26.5	26.5	26.5	26.5	26.5
82.5°	19.9	19.9	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
85°	10.0	10.0	10.0	10.0	10.0	6.6	6.6	6.6	6.6	6.6	6.6
87.5°	3.4	3.4	3.4	3.4	3.4	6.6	6.6	6.6	6.6	6.6	6.6
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: P252517

CATALOG NUMBER: LE_6B50D010R EC6B30509730 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1
2.5°	2359.2	2369.2	2356.0	2366.0	2362.6	2359.2	2352.6	2366.0
5°	2319.5	2322.8	2309.5	2322.8	2319.5	2312.9	2306.2	2319.5
7.5°	2263.1	2273.0	2256.4	2269.8	2266.4	2259.8	2253.1	2266.4
10°	2200.0	2210.0	2196.8	2206.6	2206.6	2200.0	2190.1	2203.4
12.5°	2130.4	2137.0	2123.8	2137.0	2133.6	2127.0	2123.8	2133.6
15°	2054.0	2064.0	2050.8	2060.6	2057.4	2054.0	2050.8	2060.6
17.5°	1971.1	1981.0	1971.1	1981.0	1981.0	1971.1	1967.8	1974.4
20°	1888.1	1894.8	1884.8	1894.8	1891.4	1891.4	1884.8	1894.8
22.5°	1795.2	1805.1	1798.5	1805.1	1801.9	1801.9	1798.5	1805.1
25°	1702.2	1712.2	1702.2	1712.2	1708.9	1708.9	1702.2	1718.9
27.5°	1609.4	1616.0	1606.0	1619.4	1616.0	1609.4	1612.8	1616.0
30°	1509.9	1516.5	1509.9	1519.8	1519.8	1519.8	1513.1	1519.8
32.5°	1410.2	1420.2	1410.2	1420.2	1416.9	1416.9	1413.6	1420.2
35°	1310.8	1314.0	1307.4	1317.4	1317.4	1320.6	1314.0	1324.0
37.5°	1207.9	1211.1	1207.9	1211.1	1217.8	1207.9	1214.5	1217.8
40°	1101.6	1108.2	1105.0	1108.2	1108.2	1111.6	1108.2	1111.6
42.5°	995.5	1002.1	995.5	1005.5	1002.1	1002.1	1005.5	1005.5
45°	886.0	896.0	889.2	896.0	899.2	896.0	896.0	902.6
47.5°	783.1	789.8	786.4	789.8	789.8	789.8	789.8	796.4
50°	680.2	683.6	683.6	686.9	686.9	690.2	683.6	686.9
52.5°	577.4	584.0	584.0	584.0	580.8	584.0	584.0	584.0
55°	484.5	487.8	481.1	487.8	487.8	484.5	484.5	491.1
57.5°	394.9	394.9	394.9	394.9	394.9	391.5	394.9	394.9
60°	311.9	315.2	311.9	311.9	311.9	311.9	308.6	315.2
62.5°	242.2	242.2	238.9	242.2	242.2	242.2	245.5	245.5
65°	189.1	192.5	189.1	192.5	192.5	192.5	192.5	195.8
67.5°	149.4	149.4	149.4	149.4	149.4	149.4	149.4	149.4
70°	112.9	112.9	112.9	116.1	112.9	112.9	112.9	116.1
72.5°	83.0	83.0	83.0	83.0	83.0	83.0	86.2	86.2
75°	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
77.5°	39.9	39.9	39.9	43.1	39.9	43.1	39.9	39.9
80°	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
82.5°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
85°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
87.5°	6.6	6.6	6.6	6.6	3.4	3.4	3.4	3.4
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)