

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: P252725

Luminaire Tested: **LE_6B50D010R EC6B30509730 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B50D010R EC6B30509730 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE 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: 4656.2 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

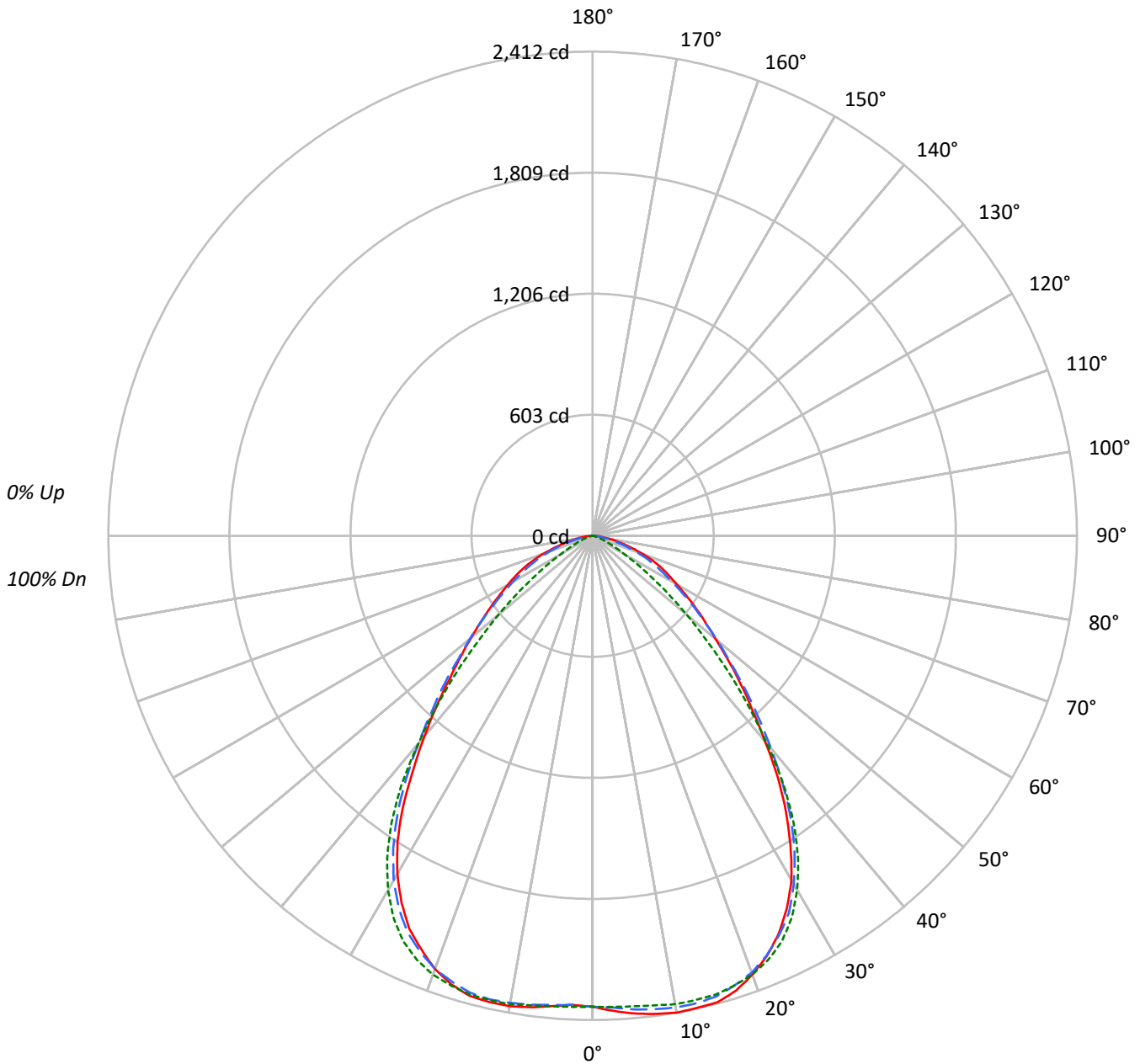
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252725

CATALOG NUMBER: LE_6B50D010R EC6B30509730 6LBDW1H

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	98	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	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	153048	153048	153048
5°	156455	154065	154065
10°	159801	156946	157608
15°	162479	159798	160244
20°	161489	161489	159413
25°	157647	160512	155495
30°	149228	153484	146478
35°	133722	139011	131078
40°	113602	115016	110783
45°	96130	87854	92762
50°	81157	61964	80162
55°	71329	40015	70578
60°	63218	23813	63649
65°	58384	14341	58384
70°	50644	8221	49385
75°	40130	5016	37659
80°	29906	3757	28704
85°	27322	2545	24777



TEST NUMBER: P252725

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.9	4.9
10°-20°	668.4	14.4
20°-30°	1005.3	21.6
30°-40°	1057.0	22.7
40°-50°	789.6	17.0
50°-60°	491.6	10.6
60°-70°	279.6	6.0
70°-80°	115.1	2.5
80°-90°	23.8	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°	1899.6	40.8
0°-40°	2956.6	63.5
0°-60°	4237.8	91.0
0°-90°	4656.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4656.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2346	2346	2346	2346	2346	
5°	2389	2369	2352	2346	2352	229
15°	2406	2376	2366	2356	2372	676
25°	2190	2197	2230	2180	2160	1002
35°	1679	1722	1745	1696	1646	1042
45°	1042	1065	952	1045	1005	807
55°	627	614	352	604	620	564
65°	378	338	93	338	378	372
75°	159	126	20	123	149	173
85°	36	23	3	20	33	41
90°	0	0	0	0	0	



TEST NUMBER: P252725

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9
2.5°	2369.1	2365.9	2369.1	2362.5	2359.2	2359.2	2362.5	2355.9	2352.5	2355.9	2352.5
5°	2389.0	2382.4	2385.8	2382.4	2375.8	2375.8	2379.1	2369.1	2369.1	2372.5	2369.1
7.5°	2402.4	2402.4	2402.4	2395.8	2392.4	2389.0	2395.8	2385.8	2382.4	2382.4	2379.1
10°	2412.2	2409.0	2412.2	2405.6	2399.0	2395.8	2402.4	2395.8	2389.0	2395.8	2385.8
12.5°	2409.0	2409.0	2409.0	2405.6	2399.0	2395.8	2402.4	2392.4	2389.0	2392.4	2385.8
15°	2405.6	2395.8	2399.0	2395.8	2385.8	2385.8	2389.0	2379.1	2372.5	2382.4	2375.8
17.5°	2375.8	2369.1	2372.5	2365.9	2359.2	2355.9	2359.2	2355.9	2349.2	2355.9	2349.2
20°	2326.0	2326.0	2329.4	2322.8	2316.0	2312.8	2319.4	2312.8	2306.1	2316.0	2316.0
22.5°	2266.2	2266.2	2266.2	2263.0	2259.6	2259.6	2259.6	2256.4	2253.0	2259.6	2263.0
25°	2190.0	2186.6	2190.0	2193.2	2190.0	2186.6	2190.0	2190.0	2183.4	2196.6	2196.6
27.5°	2093.8	2093.8	2100.4	2097.0	2097.0	2093.8	2100.4	2100.4	2097.0	2107.0	2117.0
30°	1980.9	1974.2	1980.9	1980.9	1984.2	1984.2	1987.5	1987.5	1987.5	1997.5	2004.1
32.5°	1834.9	1838.2	1848.2	1844.9	1841.5	1851.5	1851.5	1858.1	1861.5	1868.1	1871.4
35°	1679.0	1682.2	1682.2	1685.6	1692.2	1685.6	1702.2	1698.9	1702.2	1715.5	1722.1
37.5°	1513.1	1503.1	1519.8	1513.1	1516.4	1516.4	1523.0	1526.4	1536.2	1552.9	1552.9
40°	1333.9	1337.2	1343.9	1347.1	1350.5	1350.5	1350.5	1360.4	1363.8	1383.6	1380.4
42.5°	1177.9	1177.9	1184.6	1187.9	1187.9	1187.9	1187.9	1197.9	1204.5	1211.1	1217.8
45°	1041.9	1032.0	1038.6	1038.6	1045.2	1041.9	1048.5	1055.1	1058.5	1068.5	1065.1
47.5°	912.5	909.1	912.5	915.8	912.5	915.8	919.1	922.5	925.8	925.8	925.8
50°	799.6	799.6	803.0	806.2	806.2	806.2	806.2	809.6	809.6	816.2	809.6
52.5°	706.8	710.1	710.1	706.8	710.1	710.1	713.4	713.4	710.1	710.1	700.1
55°	627.1	623.8	627.1	623.8	627.1	627.1	623.8	623.8	620.5	617.1	613.9
57.5°	550.8	550.8	550.8	550.8	547.5	550.8	547.5	544.1	544.1	537.5	527.6
60°	484.5	484.5	484.5	484.5	484.5	481.1	484.5	481.1	474.5	467.9	454.6
62.5°	428.0	424.8	428.0	424.8	424.8	421.4	421.4	418.1	411.5	404.8	391.5
65°	378.2	381.6	378.2	378.2	375.0	371.6	371.6	368.2	358.4	351.8	338.5
67.5°	325.1	321.9	321.9	321.9	318.5	318.5	318.5	311.9	305.2	295.4	282.0
70°	265.5	265.5	265.5	262.1	262.1	258.9	258.9	255.5	248.9	242.2	225.6
72.5°	209.0	209.0	209.0	202.4	205.8	202.4	202.4	195.8	192.5	182.5	172.5
75°	159.2	159.2	156.0	156.0	152.6	149.4	149.4	146.0	142.6	136.0	126.1
77.5°	116.1	116.1	116.1	112.9	109.5	106.1	106.1	102.9	99.5	96.2	89.6
80°	79.6	79.6	79.6	79.6	76.4	73.0	73.0	69.6	69.6	66.4	59.8
82.5°	53.1	53.1	53.1	53.1	49.8	49.8	49.8	46.5	43.1	43.1	36.5
85°	36.5	36.5	33.1	33.1	33.1	33.1	29.9	29.9	26.5	23.2	23.2
87.5°	19.9	19.9	19.9	19.9	16.6	16.6	16.6	16.6	13.2	13.2	10.0
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: P252725

CATALOG NUMBER: LE_6B50D010R EC6B30509730 6LBDW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9
2.5°	2362.5	2362.5	2359.2	2349.2	2352.5	2349.2	2352.5	2349.2	2339.2	2349.2	2339.2
5°	2375.8	2379.1	2372.5	2359.2	2362.5	2359.2	2359.2	2355.9	2345.9	2352.5	2345.9
7.5°	2389.0	2385.8	2382.4	2369.1	2372.5	2369.1	2369.1	2362.5	2352.5	2359.2	2349.2
10°	2395.8	2395.8	2389.0	2375.8	2375.8	2372.5	2375.8	2372.5	2359.2	2369.1	2362.5
12.5°	2395.8	2392.4	2392.4	2375.8	2379.1	2375.8	2379.1	2372.5	2362.5	2369.1	2365.9
15°	2385.8	2385.8	2382.4	2365.9	2369.1	2369.1	2372.5	2365.9	2355.9	2365.9	2359.2
17.5°	2365.9	2365.9	2362.5	2349.2	2355.9	2355.9	2359.2	2352.5	2342.6	2349.2	2349.2
20°	2326.0	2329.4	2329.4	2319.4	2326.0	2326.0	2329.4	2326.0	2322.8	2326.0	2319.4
22.5°	2279.5	2286.2	2286.2	2276.2	2282.9	2282.9	2292.9	2289.5	2282.9	2286.2	2282.9
25°	2209.9	2216.5	2223.1	2216.5	2223.1	2223.1	2233.1	2229.8	2223.1	2229.8	2219.9
27.5°	2130.2	2133.5	2140.2	2133.5	2143.5	2140.2	2150.1	2146.9	2136.9	2146.9	2143.5
30°	2017.4	2030.8	2040.6	2030.8	2040.6	2040.6	2047.2	2044.0	2040.6	2037.4	2037.4
32.5°	1891.4	1904.6	1904.6	1901.2	1907.9	1907.9	1911.2	1904.6	1901.2	1904.6	1907.9
35°	1735.4	1742.0	1748.6	1745.4	1748.6	1752.0	1748.6	1752.0	1742.0	1745.4	1745.4
37.5°	1566.1	1572.8	1572.8	1562.9	1569.5	1569.5	1562.9	1562.9	1556.2	1562.9	1549.6
40°	1387.0	1380.4	1383.6	1377.0	1370.4	1370.4	1367.1	1353.8	1347.1	1350.5	1353.8
42.5°	1211.1	1211.1	1201.1	1184.6	1168.0	1168.0	1158.0	1151.4	1138.1	1144.8	1141.4
45°	1061.8	1045.2	1032.0	1005.4	995.5	988.8	972.2	955.6	949.0	952.2	949.0
47.5°	919.1	905.9	872.6	836.1	826.2	816.2	796.4	776.5	769.8	763.1	763.1
50°	799.6	776.5	740.0	700.1	683.5	667.0	640.4	620.5	607.2	610.5	610.5
52.5°	690.1	663.6	620.5	570.8	550.8	530.9	507.6	484.5	474.5	471.1	471.1
55°	594.0	564.1	521.0	464.5	448.0	424.8	394.9	368.2	355.0	351.8	358.4
57.5°	507.6	481.1	431.4	375.0	355.0	331.9	302.0	278.8	262.1	258.9	262.1
60°	438.0	401.5	358.4	305.2	278.8	258.9	225.6	205.8	189.1	182.5	185.9
62.5°	368.2	335.1	292.0	238.9	219.0	199.1	169.2	146.0	132.8	129.4	132.8
65°	315.2	282.0	242.2	195.8	175.9	156.0	129.4	106.1	96.2	92.9	96.2
67.5°	262.1	232.2	199.1	156.0	139.4	122.8	96.2	79.6	66.4	63.0	66.4
70°	212.4	185.9	152.6	122.8	106.1	92.9	73.0	56.4	46.5	43.1	46.5
72.5°	159.2	139.4	116.1	89.6	79.6	69.6	53.1	39.9	33.1	29.9	33.1
75°	116.1	99.5	83.0	63.0	56.4	49.8	36.5	26.5	23.2	19.9	23.2
77.5°	79.6	69.6	56.4	43.1	36.5	33.1	23.2	19.9	16.6	13.2	13.2
80°	53.1	46.5	36.5	29.9	26.5	23.2	16.6	13.2	10.0	10.0	10.0
82.5°	33.1	26.5	23.2	16.6	13.2	13.2	10.0	6.6	6.6	6.6	6.6
85°	19.9	16.6	13.2	10.0	6.6	6.6	3.4	3.4	3.4	3.4	3.4
87.5°	10.0	6.6	6.6	3.4	3.4	3.4	3.4	3.4	0.0	0.0	3.4
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: P252725

CATALOG NUMBER: LE_6B50D010R EC6B30509730 6LBDW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9
2.5°	2345.9	2339.2	2339.2	2342.6	2345.9	2349.2	2342.6	2339.2	2339.2	2349.2	2342.6
5°	2345.9	2342.6	2342.6	2342.6	2349.2	2352.5	2345.9	2342.6	2345.9	2355.9	2352.5
7.5°	2355.9	2349.2	2352.5	2352.5	2355.9	2362.5	2355.9	2352.5	2355.9	2365.9	2359.2
10°	2362.5	2355.9	2359.2	2355.9	2365.9	2369.1	2362.5	2359.2	2362.5	2375.8	2372.5
12.5°	2365.9	2362.5	2362.5	2359.2	2369.1	2372.5	2365.9	2362.5	2365.9	2375.8	2372.5
15°	2359.2	2355.9	2355.9	2355.9	2362.5	2369.1	2359.2	2355.9	2355.9	2365.9	2362.5
17.5°	2345.9	2339.2	2339.2	2339.2	2342.6	2345.9	2336.0	2332.6	2329.4	2339.2	2336.0
20°	2322.8	2316.0	2309.4	2309.4	2312.8	2312.8	2306.1	2296.1	2296.1	2299.5	2292.9
22.5°	2279.5	2276.2	2269.6	2266.2	2272.9	2269.6	2256.4	2246.4	2243.0	2246.4	2239.8
25°	2219.9	2213.2	2209.9	2206.5	2209.9	2206.5	2193.2	2180.0	2180.0	2180.0	2170.0
27.5°	2136.9	2130.2	2126.9	2126.9	2130.2	2123.6	2110.4	2097.0	2090.4	2090.4	2080.5
30°	2030.8	2030.8	2027.4	2024.0	2020.8	2020.8	2000.9	1987.5	1980.9	1984.2	1977.6
32.5°	1901.2	1898.0	1894.6	1884.8	1888.0	1884.8	1868.1	1858.1	1848.2	1841.5	1838.2
35°	1735.4	1735.4	1732.1	1732.1	1732.1	1728.8	1712.1	1702.2	1695.6	1692.2	1682.2
37.5°	1552.9	1549.6	1546.2	1546.2	1546.2	1546.2	1536.2	1526.4	1526.4	1523.0	1516.4
40°	1347.1	1350.5	1353.8	1350.5	1360.4	1370.4	1357.1	1350.5	1347.1	1357.1	1343.9
42.5°	1148.1	1144.8	1161.4	1164.6	1164.6	1181.2	1184.6	1187.9	1184.6	1191.2	1191.2
45°	955.6	952.2	968.9	975.5	992.1	1012.0	1022.0	1038.6	1045.2	1051.9	1045.2
47.5°	773.1	786.4	799.6	816.2	829.5	862.8	882.6	899.2	905.9	915.8	915.8
50°	620.5	633.8	657.0	670.2	686.9	726.6	759.9	783.1	796.4	806.2	803.0
52.5°	477.8	501.0	530.9	544.1	567.4	613.9	650.4	676.9	693.5	703.5	706.8
55°	368.2	388.2	418.1	438.0	461.2	511.0	557.5	587.2	603.9	617.1	623.8
57.5°	272.1	295.4	328.5	345.1	371.6	428.0	467.9	504.4	524.2	540.9	544.1
60°	199.1	222.4	252.1	272.1	298.6	355.0	401.5	434.6	457.9	471.1	477.8
62.5°	142.6	165.9	195.8	215.6	238.9	288.6	335.1	368.2	391.5	408.1	418.1
65°	102.9	126.1	156.0	172.5	192.5	238.9	282.0	315.2	338.5	358.4	365.0
67.5°	76.4	92.9	119.5	136.0	156.0	192.5	229.0	258.9	282.0	298.6	305.2
70°	56.4	69.6	92.9	102.9	116.1	149.4	179.1	205.8	225.6	238.9	245.5
72.5°	39.9	49.8	66.4	76.4	86.2	112.9	136.0	156.0	169.2	182.5	189.1
75°	26.5	33.1	46.5	53.1	59.8	79.6	96.2	112.9	122.8	132.8	136.0
77.5°	16.6	23.2	33.1	36.5	43.1	53.1	66.4	76.4	83.0	89.6	96.2
80°	10.0	13.2	19.9	23.2	26.5	36.5	43.1	49.8	56.4	63.0	66.4
82.5°	6.6	10.0	13.2	13.2	16.6	19.9	26.5	33.1	36.5	39.9	43.1
85°	3.4	3.4	6.6	6.6	10.0	10.0	13.2	16.6	19.9	23.2	26.5
87.5°	3.4	3.4	3.4	3.4	6.6	6.6	10.0	10.0	10.0	13.2	13.2
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: P252725

CATALOG NUMBER: LE_6B50D010R EC6B30509730 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9
2.5°	2336.0	2345.9	2336.0	2342.6	2339.2	2339.2	2336.0	2339.2
5°	2345.9	2359.2	2345.9	2355.9	2349.2	2349.2	2349.2	2352.5
7.5°	2355.9	2369.1	2359.2	2369.1	2365.9	2362.5	2362.5	2369.1
10°	2365.9	2375.8	2369.1	2379.1	2375.8	2372.5	2372.5	2379.1
12.5°	2365.9	2379.1	2372.5	2382.4	2379.1	2375.8	2375.8	2379.1
15°	2355.9	2372.5	2362.5	2372.5	2369.1	2365.9	2365.9	2372.5
17.5°	2326.0	2339.2	2332.6	2339.2	2339.2	2336.0	2339.2	2342.6
20°	2286.2	2296.1	2289.5	2296.1	2296.1	2289.5	2292.9	2296.1
22.5°	2229.8	2239.8	2233.1	2239.8	2236.4	2233.1	2233.1	2229.8
25°	2160.1	2173.4	2163.4	2170.0	2163.4	2156.8	2156.8	2160.1
27.5°	2073.9	2083.8	2070.5	2077.1	2070.5	2063.9	2063.9	2060.5
30°	1961.0	1964.4	1954.4	1961.0	1954.4	1951.0	1944.4	1944.4
32.5°	1825.0	1828.2	1818.4	1818.4	1811.8	1811.8	1798.4	1808.4
35°	1665.8	1669.0	1665.8	1662.4	1652.4	1649.1	1645.8	1645.8
37.5°	1499.8	1499.8	1489.9	1486.5	1479.9	1473.2	1476.6	1466.6
40°	1330.6	1327.2	1317.2	1320.6	1317.2	1307.4	1304.0	1300.8
42.5°	1171.2	1171.2	1161.4	1164.6	1158.0	1154.8	1144.8	1148.1
45°	1032.0	1032.0	1022.0	1022.0	1018.6	1008.8	1012.0	1005.4
47.5°	905.9	905.9	902.5	902.5	892.6	889.2	889.2	889.2
50°	796.4	796.4	796.4	796.4	793.0	789.8	786.4	789.8
52.5°	703.5	710.1	706.8	706.8	703.5	700.1	696.8	696.8
55°	620.5	623.8	623.8	627.1	623.8	620.5	623.8	620.5
57.5°	547.5	554.1	554.1	554.1	554.1	554.1	550.8	547.5
60°	484.5	487.8	487.8	491.1	491.1	491.1	487.8	487.8
62.5°	421.4	428.0	431.4	431.4	434.6	431.4	431.4	431.4
65°	371.6	378.2	381.6	378.2	381.6	381.6	378.2	378.2
67.5°	311.9	318.5	318.5	318.5	318.5	321.9	318.5	318.5
70°	252.1	258.9	255.5	258.9	258.9	258.9	258.9	258.9
72.5°	192.5	195.8	199.1	199.1	202.4	199.1	199.1	199.1
75°	139.4	146.0	146.0	146.0	146.0	149.4	149.4	149.4
77.5°	99.5	102.9	102.9	106.1	106.1	106.1	106.1	109.5
80°	69.6	69.6	73.0	73.0	76.4	76.4	76.4	76.4
82.5°	46.5	49.8	49.8	49.8	49.8	49.8	49.8	49.8
85°	26.5	29.9	29.9	29.9	29.9	33.1	33.1	33.1
87.5°	16.6	16.6	16.6	16.6	16.6	16.6	13.2	13.2
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)