

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: P252412

Luminaire Tested: **LE_6B50D010R EC6B30509727 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B50D010R EC6B30509727 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4315.0 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

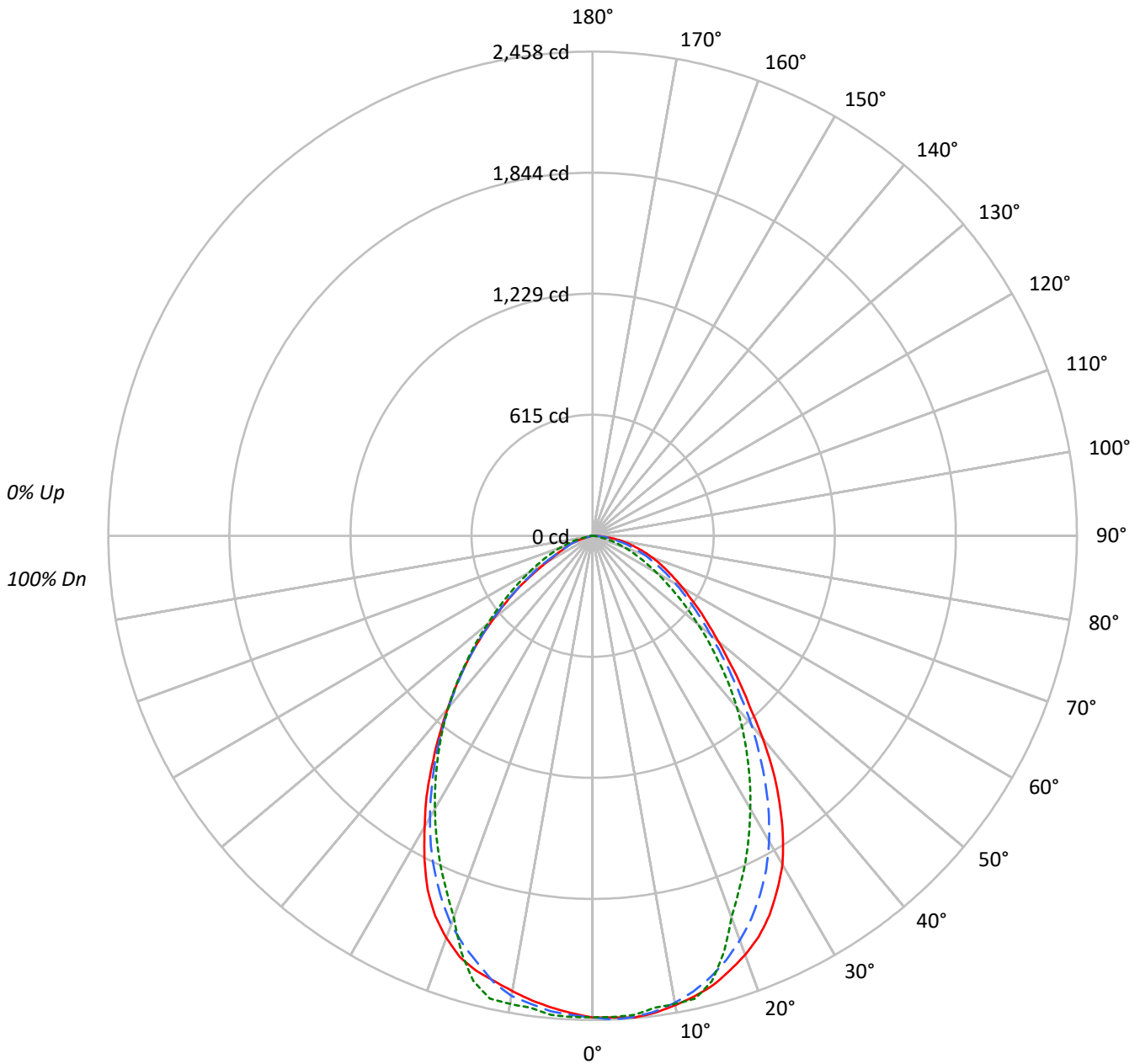
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68			68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60			60
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54			54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48			48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44			44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40			40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	159507	159507	159507
5°	160745	159913	157411
10°	160285	159861	155449
15°	159561	158055	154408
20°	157177	143076	150790
25°	152911	131884	142631
30°	145198	120548	128451
35°	131747	108993	113047
40°	114386	97080	97353
45°	97560	83490	82613
50°	84435	70581	66703
55°	75480	58862	51640
60°	68777	48878	34812
65°	64219	40199	25965
70°	61193	32714	21784
75°	57623	23216	7209
80°	54853	11947	2405
85°	45213	7111	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.9	5.4
10°-20°	645.7	15.0
20°-30°	891.3	20.7
30°-40°	907.0	21.0
40°-50°	728.9	16.9
50°-60°	484.7	11.2
60°-70°	276.2	6.4
70°-80°	124.1	2.9
80°-90°	26.1	0.6
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°	1767.9	41.0
0°-40°	2675.0	62.0
0°-60°	3888.6	90.1
0°-90°	4315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4315.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2445	2445	2445	2445	2445	
5°	2454	2451	2442	2423	2404	233
15°	2362	2318	2340	2248	2286	665
25°	2124	2010	1832	1892	1981	973
35°	1654	1527	1368	1394	1419	1028
45°	1057	994	905	895	895	820
55°	664	619	518	460	454	596
65°	416	372	260	168	168	414
75°	229	190	92	38	29	244
85°	60	41	10	3	0	72
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°	2444.9	2444.9	2444.9	2444.9	2444.9	2444.9	2444.9	2444.9	2444.9	2444.9	2444.9
2.5°	2448.1	2460.8	2457.6	2454.5	2457.6	2454.5	2448.1	2448.1	2441.8	2441.8	2457.6
5°	2454.5	2460.8	2457.6	2454.5	2454.5	2457.6	2444.9	2444.9	2438.6	2435.4	2451.2
7.5°	2441.8	2451.2	2444.9	2444.9	2441.8	2444.9	2432.2	2432.2	2422.8	2419.5	2435.4
10°	2419.5	2432.2	2425.9	2425.9	2425.9	2419.5	2413.1	2410.0	2400.5	2397.2	2406.8
12.5°	2394.1	2403.6	2400.5	2394.1	2394.1	2394.1	2381.4	2378.2	2365.5	2359.1	2368.8
15°	2362.4	2368.8	2365.5	2362.4	2356.0	2356.0	2343.2	2337.0	2324.2	2311.5	2317.9
17.5°	2314.8	2324.2	2317.9	2314.8	2305.2	2305.2	2292.5	2286.1	2267.1	2254.4	2257.6
20°	2263.9	2267.1	2263.9	2257.6	2248.0	2244.9	2232.1	2219.5	2203.6	2187.8	2184.5
22.5°	2203.6	2206.8	2197.2	2190.9	2181.4	2178.2	2162.4	2152.8	2127.4	2108.4	2105.1
25°	2124.2	2127.4	2127.4	2111.5	2105.1	2098.9	2083.0	2067.1	2044.9	2019.4	2009.9
27.5°	2029.0	2038.5	2032.1	2016.2	2003.5	2000.4	1984.5	1971.8	1943.2	1921.0	1908.2
30°	1927.4	1924.1	1921.0	1911.5	1892.4	1889.2	1873.4	1857.5	1835.2	1806.8	1790.9
32.5°	1797.1	1797.1	1794.0	1784.5	1765.4	1759.1	1746.4	1727.4	1701.9	1679.8	1663.8
35°	1654.2	1657.5	1654.2	1635.2	1622.5	1616.1	1609.9	1587.6	1565.4	1540.0	1527.2
37.5°	1505.0	1495.5	1498.8	1482.9	1467.0	1473.2	1454.2	1444.8	1419.4	1400.2	1387.6
40°	1343.1	1349.5	1336.8	1330.4	1320.9	1311.4	1311.4	1295.5	1282.8	1260.5	1254.2
42.5°	1184.4	1193.9	1190.8	1184.4	1171.6	1174.9	1159.0	1152.6	1136.8	1127.2	1117.6
45°	1057.4	1057.4	1057.4	1051.0	1047.9	1041.5	1032.0	1022.4	1012.9	1000.2	993.9
47.5°	933.5	933.5	936.8	930.4	924.0	920.8	914.5	914.5	898.6	885.9	879.5
50°	831.9	831.9	831.9	825.5	819.2	819.2	812.9	806.5	797.0	787.5	781.1
52.5°	739.9	739.9	739.9	733.5	730.2	727.1	724.0	720.8	708.1	701.8	695.4
55°	663.6	660.5	660.5	657.2	650.9	650.9	647.8	641.4	631.9	622.4	619.1
57.5°	587.4	590.6	587.4	587.4	581.1	581.1	574.8	571.5	562.0	555.6	549.2
60°	527.1	527.1	527.1	523.9	517.5	520.8	514.4	511.2	501.6	492.1	485.8
62.5°	466.8	469.9	469.9	466.8	460.4	460.4	457.2	454.0	444.5	435.0	425.5
65°	416.0	416.0	416.0	412.8	409.6	409.6	406.4	403.2	393.8	381.0	371.5
67.5°	368.4	365.1	365.1	365.1	362.0	358.8	355.6	352.5	342.9	333.4	320.8
70°	320.8	320.8	320.8	317.5	311.1	314.4	311.1	308.0	298.5	289.0	279.4
72.5°	276.2	276.2	273.1	269.9	269.9	266.8	266.8	263.5	254.0	241.4	231.8
75°	228.6	228.6	228.6	228.6	222.2	225.5	219.1	215.9	209.6	200.0	190.5
77.5°	187.4	187.4	187.4	184.1	181.0	181.0	177.8	174.6	165.1	158.8	146.0
80°	146.0	146.0	146.0	146.0	142.9	139.8	136.5	133.4	127.0	117.5	108.0
82.5°	108.0	108.0	104.8	104.8	104.8	101.6	98.4	95.2	88.9	82.5	76.2
85°	60.4	63.5	63.5	57.1	60.4	57.1	57.1	50.8	50.8	44.5	41.2
87.5°	22.2	19.0	19.0	19.0	19.0	19.0	19.0	15.9	15.9	15.9	12.8
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2444.9	2444.9	2444.9	2444.9	2444.9	2444.9	2444.9	2444.9	2444.9	2444.9	2444.9
2.5°	2444.9	2441.8	2454.5	2454.5	2435.4	2444.9	2448.1	2441.8	2441.8	2444.9	2435.4
5°	2438.6	2432.2	2444.9	2448.1	2429.0	2438.6	2441.8	2435.4	2438.6	2441.8	2429.0
7.5°	2416.4	2416.4	2425.9	2429.0	2410.0	2419.5	2419.5	2413.1	2416.4	2416.4	2406.8
10°	2394.1	2384.6	2394.1	2394.1	2378.2	2381.4	2387.8	2384.6	2397.2	2413.1	2413.1
12.5°	2352.9	2343.2	2359.1	2359.1	2349.6	2362.4	2378.2	2387.8	2400.5	2406.8	2387.8
15°	2302.0	2305.2	2333.8	2356.0	2346.5	2365.5	2381.4	2375.0	2359.1	2340.1	2311.5
17.5°	2235.4	2225.9	2251.2	2263.9	2251.2	2257.6	2270.2	2257.6	2232.1	2216.2	2178.2
20°	2159.1	2133.8	2133.8	2127.4	2105.1	2105.1	2102.0	2079.8	2070.2	2060.8	2044.9
22.5°	2073.4	2044.9	2035.2	2016.2	1997.2	1994.0	1984.5	1962.2	1949.6	1943.2	1924.1
25°	1975.0	1949.6	1933.8	1914.6	1886.1	1879.8	1870.2	1848.0	1841.6	1832.1	1816.2
27.5°	1873.4	1841.6	1819.4	1800.4	1775.0	1771.8	1752.8	1736.9	1724.1	1717.8	1705.1
30°	1755.9	1721.0	1705.1	1679.8	1660.6	1654.2	1638.4	1616.1	1606.6	1600.2	1590.8
32.5°	1625.8	1597.1	1581.2	1559.0	1533.6	1536.8	1517.8	1498.8	1492.4	1486.0	1476.5
35°	1498.8	1470.1	1451.1	1432.0	1416.1	1409.8	1397.1	1381.2	1371.8	1368.5	1362.1
37.5°	1359.0	1336.8	1320.9	1301.9	1289.1	1282.8	1276.4	1260.5	1254.2	1254.2	1241.5
40°	1222.5	1203.4	1190.8	1181.1	1165.2	1162.1	1155.8	1146.2	1143.1	1139.9	1130.4
42.5°	1098.6	1073.2	1063.8	1057.4	1047.9	1041.5	1038.2	1032.0	1028.8	1025.6	1016.1
45°	981.1	958.9	949.4	943.0	933.5	930.4	927.1	917.6	911.2	904.9	901.8
47.5°	866.9	851.0	847.8	831.9	825.5	819.2	812.9	806.5	803.4	800.1	787.5
50°	768.4	758.9	743.0	733.5	727.1	724.0	711.2	701.8	698.5	695.4	685.9
52.5°	679.5	666.8	657.2	641.4	638.2	631.9	625.5	612.9	606.5	603.2	593.8
55°	600.1	590.6	577.9	565.2	555.6	552.5	543.0	530.2	523.9	517.5	511.2
57.5°	533.4	517.5	504.9	492.1	485.8	476.2	466.8	460.4	450.9	441.4	431.9
60°	469.9	457.2	441.4	428.6	422.2	416.0	403.2	393.8	384.2	374.6	365.1
62.5°	409.6	396.9	381.0	368.4	362.0	355.6	342.9	333.4	323.9	314.4	301.6
65°	355.6	342.9	330.2	317.5	311.1	304.9	292.1	279.4	269.9	260.4	247.6
67.5°	311.1	295.2	282.6	269.9	263.5	257.2	244.5	235.0	222.2	212.8	200.0
70°	263.5	250.9	241.4	228.6	222.2	215.9	203.2	190.5	181.0	171.5	158.8
72.5°	222.2	206.4	196.9	184.1	177.8	174.6	161.9	152.4	142.9	130.1	120.6
75°	177.8	165.1	152.4	142.9	136.5	133.4	120.6	111.1	101.6	92.1	82.5
77.5°	136.5	127.0	114.2	104.8	98.4	95.2	82.5	73.0	63.5	57.1	47.6
80°	101.6	88.9	82.5	73.0	69.9	63.5	57.1	47.6	41.2	31.8	25.4
82.5°	69.9	60.4	54.0	47.6	44.5	41.2	34.9	28.6	22.2	19.0	15.9
85°	38.1	31.8	28.6	25.4	22.2	22.2	19.0	15.9	12.8	9.5	6.4
87.5°	12.8	9.5	9.5	9.5	9.5	6.4	6.4	6.4	3.1	3.1	3.1
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°	2444.9	2444.9	2444.9	2444.9	2444.9	2444.9	2444.9	2444.9	2444.9	2444.9	2444.9
2.5°	2441.8	2441.8	2441.8	2438.6	2438.6	2438.6	2435.4	2448.1	2435.4	2432.2	2441.8
5°	2438.6	2432.2	2432.2	2432.2	2432.2	2429.0	2425.9	2432.2	2422.8	2419.5	2419.5
7.5°	2419.5	2416.4	2416.4	2413.1	2410.0	2406.8	2403.6	2406.8	2397.2	2394.1	2394.1
10°	2422.8	2416.4	2416.4	2406.8	2400.5	2390.9	2381.4	2384.6	2371.9	2362.4	2362.4
12.5°	2384.6	2368.8	2359.1	2349.6	2343.2	2340.1	2327.4	2333.8	2321.1	2317.9	2317.9
15°	2298.9	2279.8	2263.9	2257.6	2257.6	2251.2	2241.8	2254.4	2248.0	2251.2	2267.1
17.5°	2165.5	2156.0	2146.5	2143.2	2146.5	2152.8	2159.1	2178.2	2178.2	2187.8	2203.6
20°	2048.0	2041.6	2048.0	2048.0	2051.2	2063.9	2076.6	2092.5	2098.9	2108.4	2130.6
22.5°	1933.8	1933.8	1940.0	1949.6	1946.4	1968.6	1971.8	2000.4	2000.4	2019.4	2038.5
25°	1822.6	1822.6	1828.9	1832.1	1838.5	1851.1	1863.9	1886.1	1892.4	1911.5	1927.4
27.5°	1714.6	1711.5	1711.5	1714.6	1721.0	1736.9	1743.2	1768.6	1778.1	1790.9	1806.8
30°	1594.0	1590.8	1597.1	1603.5	1600.2	1616.1	1625.8	1644.8	1651.1	1663.8	1676.5
32.5°	1479.6	1479.6	1479.6	1486.0	1486.0	1498.8	1498.8	1520.9	1520.9	1530.5	1543.1
35°	1362.1	1362.1	1365.4	1368.5	1371.8	1374.9	1378.0	1390.8	1393.9	1397.1	1403.5
37.5°	1251.0	1247.9	1251.0	1251.0	1244.6	1257.4	1257.4	1270.1	1260.5	1270.1	1273.2
40°	1136.8	1136.8	1133.5	1133.5	1133.5	1139.9	1133.5	1143.1	1136.8	1143.1	1139.9
42.5°	1019.2	1019.2	1012.9	1019.2	1016.1	1016.1	1016.1	1022.4	1012.9	1019.2	1022.4
45°	901.8	898.6	898.6	895.4	895.4	895.4	898.6	898.6	895.4	901.8	901.8
47.5°	787.5	784.2	784.2	784.2	784.2	787.5	777.9	784.2	777.9	777.9	777.9
50°	689.0	685.9	682.6	679.5	676.4	676.4	673.1	673.1	666.8	663.6	660.5
52.5°	593.8	590.6	584.2	584.2	581.1	577.9	568.4	568.4	558.9	555.6	555.6
55°	508.0	498.5	495.4	489.0	489.0	482.6	476.2	469.9	460.4	454.0	454.0
57.5°	428.6	419.1	412.8	409.6	406.4	400.1	387.4	384.2	371.5	368.4	365.1
60°	358.8	349.2	339.8	333.4	330.2	320.8	308.0	301.6	295.2	285.8	276.2
62.5°	292.1	282.6	269.9	266.8	260.4	250.9	241.4	231.8	225.5	215.9	209.6
65°	235.0	225.5	215.9	209.6	203.2	193.8	184.1	174.6	168.2	165.1	161.9
67.5°	190.5	177.8	168.2	165.1	158.8	152.4	142.9	139.8	133.4	133.4	133.4
70°	149.2	139.8	130.1	127.0	123.9	117.5	111.1	111.1	111.1	111.1	111.1
72.5°	111.1	104.8	95.2	92.1	88.9	85.8	79.4	82.5	79.4	79.4	79.4
75°	69.9	63.5	57.1	54.0	50.8	47.6	44.5	41.2	38.1	34.9	34.9
77.5°	38.1	31.8	28.6	25.4	25.4	22.2	19.0	19.0	15.9	15.9	15.9
80°	22.2	19.0	15.9	12.8	12.8	9.5	9.5	9.5	9.5	6.4	6.4
82.5°	12.8	9.5	6.4	6.4	6.4	6.4	3.1	3.1	3.1	3.1	3.1
85°	6.4	6.4	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	0.0
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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: P252412

CATALOG NUMBER: LE_6B50D010R EC6B30509727 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2444.9	2444.9	2444.9	2444.9	2444.9	2444.9	2444.9	2444.9
2.5°	2425.9	2435.4	2425.9	2435.4	2435.4	2435.4	2435.4	2425.9
5°	2410.0	2416.4	2406.8	2413.1	2416.4	2413.1	2413.1	2403.6
7.5°	2381.4	2387.8	2378.2	2387.8	2390.9	2387.8	2384.6	2378.2
10°	2352.9	2356.0	2346.5	2352.9	2359.1	2359.1	2356.0	2346.5
12.5°	2308.4	2317.9	2308.4	2314.8	2321.1	2324.2	2324.2	2314.8
15°	2257.6	2273.5	2267.1	2276.6	2286.1	2289.4	2289.4	2286.1
17.5°	2206.8	2222.6	2213.1	2229.0	2238.5	2244.9	2248.0	2241.8
20°	2133.8	2152.8	2146.5	2159.1	2171.9	2181.4	2181.4	2171.9
22.5°	2038.5	2063.9	2060.8	2070.2	2086.1	2089.2	2095.6	2089.2
25°	1933.8	1952.8	1949.6	1959.1	1978.1	1978.1	1981.4	1981.4
27.5°	1813.0	1832.1	1828.9	1835.2	1848.0	1851.1	1854.4	1848.0
30°	1682.9	1692.4	1692.4	1701.9	1711.5	1714.6	1714.6	1705.1
32.5°	1540.0	1552.6	1559.0	1555.9	1565.4	1571.8	1568.5	1568.5
35°	1409.8	1413.0	1416.1	1419.4	1422.5	1428.9	1422.5	1419.4
37.5°	1270.1	1279.6	1273.2	1279.6	1286.0	1282.8	1279.6	1279.6
40°	1143.1	1146.2	1139.9	1146.2	1149.4	1149.4	1149.4	1143.1
42.5°	1016.1	1022.4	1016.1	1022.4	1022.4	1022.4	1022.4	1019.2
45°	889.0	895.4	895.4	898.6	898.6	895.4	895.4	895.4
47.5°	771.6	777.9	771.6	777.9	781.1	774.8	774.8	774.8
50°	660.5	657.2	657.2	660.5	660.5	660.5	660.5	657.2
52.5°	546.1	549.2	549.2	549.2	552.5	549.2	552.5	552.5
55°	447.8	447.8	447.8	450.9	447.8	447.8	450.9	454.0
57.5°	358.8	355.6	352.5	352.5	355.6	352.5	352.5	352.5
60°	276.2	273.1	269.9	269.9	269.9	269.9	269.9	266.8
62.5°	206.4	206.4	206.4	209.6	209.6	209.6	209.6	212.8
65°	165.1	165.1	165.1	165.1	165.1	165.1	165.1	168.2
67.5°	133.4	133.4	133.4	136.5	136.5	136.5	136.5	136.5
70°	111.1	111.1	114.2	111.1	114.2	114.2	114.2	114.2
72.5°	76.2	76.2	76.2	76.2	76.2	73.0	76.2	73.0
75°	31.8	31.8	31.8	31.8	31.8	31.8	31.8	28.6
77.5°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
80°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	3.1	3.1	3.1	3.1	0.0	0.0	0.0
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)