

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: io LED

Report Number: P252425

Luminaire Tested: **LD6B60D010TE EU6B60709727 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252425
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: io LED
Catalog Number: LD6B60D010TE EU6B60709727 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: 3857.0 lumens
Efficiency: N/A
Efficacy: 61.7 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

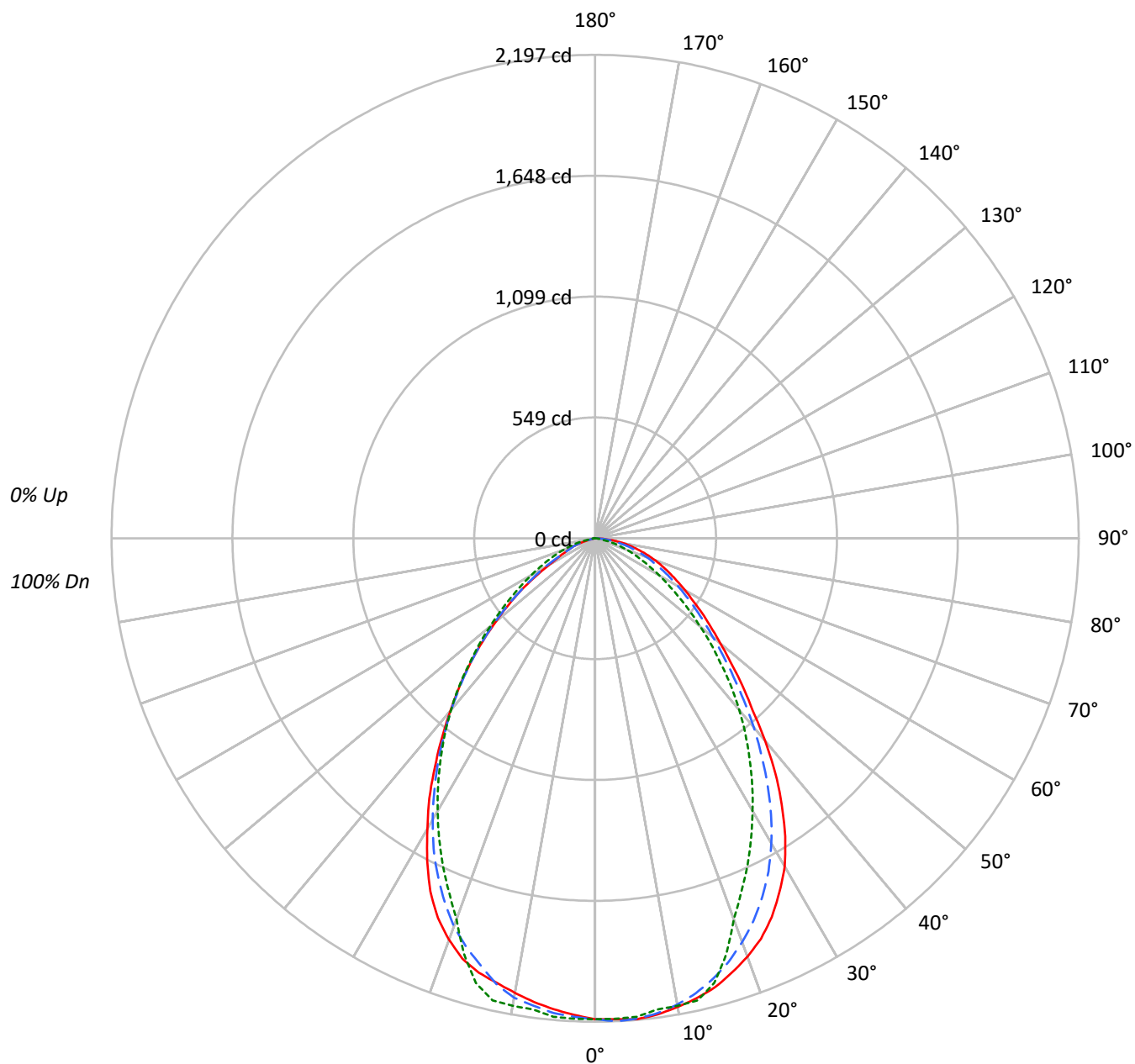
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	90	86	100	94	89	85	91	86	83		88	84	81		85
3	95	86	80	74	93	85	79	73	82	77	72		79	75	71		77
4	88	78	71	65	86	77	70	64	74	68	64		72	67	63		70
5	82	71	63	57	80	70	63	57	68	62	57		66	60	56		64
6	77	65	57	51	75	64	57	51	62	56	51		61	55	50		59
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55
8	67	55	47	42	66	54	47	42	53	46	42		52	46	42		51
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47
10	59	47	40	35	58	47	40	35	46	40	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	142577	142577	142577
5°	143678	142938	140705
10°	143273	142895	138947
15°	142622	141278	138022
20°	140494	127886	134780
25°	136685	117883	127486
30°	129784	107757	114816
35°	117770	97429	101044
40°	102250	86775	87014
45°	87199	74632	73848
50°	75473	63090	59629
55°	67473	52618	46169
60°	61470	43698	31107
65°	57396	35922	23218
70°	54688	29242	19495
75°	51498	20745	6428
80°	49067	10670	2142
85°	40347	6363	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.4	5.4
10°-20°	577.2	15.0
20°-30°	796.7	20.7
30°-40°	810.8	21.0
40°-50°	651.6	16.9
50°-60°	433.2	11.2
60°-70°	246.9	6.4
70°-80°	110.9	2.9
80°-90°	23.3	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°	1580.3	41.0
0°-40°	2391.0	62.0
0°-60°	3475.9	90.1
0°-90°	3857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3857.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2185	2185	2185	2185	2185	
5°	2194	2191	2183	2166	2148	208
15°	2112	2072	2092	2009	2044	594
25°	1899	1797	1638	1692	1771	870
35°	1479	1365	1223	1246	1269	919
45°	945	888	809	800	800	733
55°	593	553	463	412	406	533
65°	372	332	233	150	150	370
75°	204	170	82	34	26	218
85°	54	37	8	3	0	64
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°	2185.4	2185.4	2185.4	2185.4	2185.4	2185.4	2185.4	2185.4	2185.4	2185.4	2185.4
2.5°	2188.2	2199.6	2196.8	2193.9	2196.8	2193.9	2188.2	2188.2	2182.6	2182.6	2196.8
5°	2193.9	2199.6	2196.8	2193.9	2193.9	2196.8	2185.4	2185.4	2179.7	2176.9	2191.1
7.5°	2182.6	2191.1	2185.4	2185.4	2182.6	2185.4	2174.1	2174.1	2165.5	2162.7	2176.9
10°	2162.7	2174.1	2168.4	2168.4	2168.4	2162.7	2157.0	2154.2	2145.7	2142.8	2151.4
12.5°	2140.0	2148.5	2145.7	2140.0	2140.0	2140.0	2128.6	2125.8	2114.5	2108.8	2117.3
15°	2111.6	2117.3	2114.5	2111.6	2105.9	2105.9	2094.6	2088.9	2077.6	2066.2	2071.9
17.5°	2069.0	2077.6	2071.9	2069.0	2060.5	2060.5	2049.2	2043.5	2026.5	2015.1	2018.0
20°	2023.6	2026.5	2023.6	2018.0	2009.4	2006.6	1995.2	1983.9	1969.7	1955.5	1952.7
22.5°	1969.7	1972.5	1964.0	1958.4	1949.8	1947.0	1932.8	1924.3	1901.6	1884.6	1881.7
25°	1898.8	1901.6	1901.6	1887.4	1881.7	1876.0	1861.9	1847.7	1827.8	1805.1	1796.6
27.5°	1813.6	1822.1	1816.4	1802.3	1790.9	1788.1	1773.9	1762.5	1737.0	1717.1	1705.8
30°	1722.8	1719.9	1717.1	1708.6	1691.6	1688.7	1674.5	1660.3	1640.5	1614.9	1600.7
32.5°	1606.4	1606.4	1603.6	1595.1	1578.0	1572.4	1561.0	1544.0	1521.3	1501.4	1487.2
35°	1478.7	1481.5	1478.7	1461.7	1450.3	1444.6	1439.0	1419.1	1399.2	1376.5	1365.2
37.5°	1345.3	1336.8	1339.6	1325.4	1311.2	1316.9	1299.9	1291.4	1268.7	1251.6	1240.3
40°	1200.6	1206.2	1194.9	1189.2	1180.7	1172.2	1172.2	1158.0	1146.6	1126.8	1121.1
42.5°	1058.6	1067.2	1064.3	1058.6	1047.3	1050.1	1035.9	1030.3	1016.1	1007.6	999.0
45°	945.1	945.1	945.1	939.4	936.6	930.9	922.4	913.9	905.4	894.0	888.4
47.5°	834.4	834.4	837.3	831.6	825.9	823.1	817.4	817.4	803.2	791.9	786.2
50°	743.6	743.6	743.6	737.9	732.3	732.3	726.6	720.9	712.4	703.9	698.2
52.5°	661.3	661.3	661.3	655.6	652.8	649.9	647.1	644.3	632.9	627.2	621.6
55°	593.2	590.3	590.3	587.5	581.8	581.8	579.0	573.3	564.8	556.3	553.4
57.5°	525.1	527.9	525.1	525.1	519.4	519.4	513.7	510.9	502.4	496.7	491.0
60°	471.1	471.1	471.1	468.3	462.6	465.5	459.8	456.9	448.4	439.9	434.2
62.5°	417.2	420.1	420.1	417.2	411.5	411.5	408.7	405.9	397.3	388.8	380.3
65°	371.8	371.8	371.8	369.0	366.1	366.1	363.3	360.5	351.9	340.6	332.1
67.5°	329.2	326.4	326.4	326.4	323.6	320.7	317.9	315.0	306.5	298.0	286.7
70°	286.7	286.7	286.7	283.8	278.1	281.0	278.1	275.3	266.8	258.3	249.8
72.5°	246.9	246.9	244.1	241.2	241.2	238.4	238.4	235.6	227.1	215.7	207.2
75°	204.3	204.3	204.3	204.3	198.7	201.5	195.8	193.0	187.3	178.8	170.3
77.5°	167.5	167.5	167.5	164.6	161.8	161.8	158.9	156.1	147.6	141.9	130.6
80°	130.6	130.6	130.6	130.6	127.7	124.9	122.0	119.2	113.5	105.0	96.5
82.5°	96.5	96.5	93.7	93.7	93.7	90.8	88.0	85.1	79.5	73.8	68.1
85°	53.9	56.8	56.8	51.1	53.9	51.1	51.1	45.4	45.4	39.7	36.9
87.5°	19.9	17.0	17.0	17.0	17.0	17.0	17.0	14.2	14.2	14.2	11.4
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°	2185.4	2185.4	2185.4	2185.4	2185.4	2185.4	2185.4	2185.4	2185.4	2185.4	2185.4
2.5°	2185.4	2182.6	2193.9	2193.9	2176.9	2185.4	2188.2	2182.6	2182.6	2185.4	2176.9
5°	2179.7	2174.1	2185.4	2188.2	2171.2	2179.7	2182.6	2176.9	2179.7	2182.6	2171.2
7.5°	2159.9	2159.9	2168.4	2171.2	2154.2	2162.7	2162.7	2157.0	2159.9	2159.9	2151.4
10°	2140.0	2131.5	2140.0	2140.0	2125.8	2128.6	2134.3	2131.5	2142.8	2157.0	2157.0
12.5°	2103.1	2094.6	2108.8	2108.8	2100.3	2111.6	2125.8	2134.3	2145.7	2151.4	2134.3
15°	2057.7	2060.5	2086.1	2105.9	2097.4	2114.5	2128.6	2123.0	2108.8	2091.7	2066.2
17.5°	1998.1	1989.6	2012.3	2023.6	2012.3	2018.0	2029.3	2018.0	1995.2	1981.1	1947.0
20°	1930.0	1907.3	1907.3	1901.6	1881.7	1881.7	1878.9	1859.0	1850.5	1842.0	1827.8
22.5°	1853.3	1827.8	1819.3	1802.3	1785.2	1782.4	1773.9	1754.0	1742.7	1737.0	1719.9
25°	1765.4	1742.7	1728.5	1711.4	1685.9	1680.2	1671.7	1651.8	1646.2	1637.6	1623.4
27.5°	1674.5	1646.2	1626.3	1609.3	1586.5	1583.7	1566.7	1552.5	1541.1	1535.5	1524.1
30°	1569.5	1538.3	1524.1	1501.4	1484.4	1478.7	1464.5	1444.6	1436.1	1430.4	1421.9
32.5°	1453.2	1427.6	1413.4	1393.6	1370.8	1373.7	1356.7	1339.6	1334.0	1328.3	1319.8
35°	1339.6	1314.1	1297.1	1280.0	1265.8	1260.2	1248.8	1234.6	1226.1	1223.3	1217.6
37.5°	1214.7	1194.9	1180.7	1163.7	1152.3	1146.6	1141.0	1126.8	1121.1	1121.1	1109.7
40°	1092.7	1075.7	1064.3	1055.8	1041.6	1038.8	1033.1	1024.6	1021.7	1018.9	1010.4
42.5°	982.0	959.3	950.8	945.1	936.6	930.9	928.1	922.4	919.6	916.7	908.2
45°	877.0	857.1	848.6	842.9	834.4	831.6	828.8	820.2	814.6	808.9	806.0
47.5°	774.8	760.6	757.8	743.6	737.9	732.3	726.6	720.9	718.1	715.2	703.9
50°	686.8	678.3	664.1	655.6	649.9	647.1	635.8	627.2	624.4	621.6	613.0
52.5°	607.4	596.0	587.5	573.3	570.5	564.8	559.1	547.8	542.1	539.3	530.7
55°	536.4	527.9	516.6	505.2	496.7	493.8	485.3	474.0	468.3	462.6	456.9
57.5°	476.8	462.6	451.3	439.9	434.2	425.7	417.2	411.5	403.0	394.5	386.0
60°	420.1	408.7	394.5	383.2	377.5	371.8	360.5	351.9	343.4	334.9	326.4
62.5°	366.1	354.8	340.6	329.2	323.6	317.9	306.5	298.0	289.5	281.0	269.6
65°	317.9	306.5	295.2	283.8	278.1	272.5	261.1	249.8	241.2	232.7	221.4
67.5°	278.1	264.0	252.6	241.2	235.6	229.9	218.5	210.0	198.7	190.2	178.8
70°	235.6	224.2	215.7	204.3	198.7	193.0	181.6	170.3	161.8	153.3	141.9
72.5°	198.7	184.5	176.0	164.6	158.9	156.1	144.7	136.2	127.7	116.4	107.9
75°	158.9	147.6	136.2	127.7	122.0	119.2	107.9	99.3	90.8	82.3	73.8
77.5°	122.0	113.5	102.2	93.7	88.0	85.1	73.8	65.3	56.8	51.1	42.6
80°	90.8	79.5	73.8	65.3	62.4	56.8	51.1	42.6	36.9	28.4	22.7
82.5°	62.4	53.9	48.2	42.6	39.7	36.9	31.2	25.5	19.9	17.0	14.2
85°	34.1	28.4	25.5	22.7	19.9	19.9	17.0	14.2	11.4	8.5	5.7
87.5°	11.4	8.5	8.5	8.5	8.5	5.7	5.7	5.7	2.8	2.8	2.8
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°	2185.4	2185.4	2185.4	2185.4	2185.4	2185.4	2185.4	2185.4	2185.4	2185.4	2185.4
2.5°	2182.6	2182.6	2182.6	2179.7	2179.7	2179.7	2176.9	2188.2	2176.9	2174.1	2182.6
5°	2179.7	2174.1	2174.1	2174.1	2174.1	2171.2	2168.4	2174.1	2165.5	2162.7	2162.7
7.5°	2162.7	2159.9	2159.9	2157.0	2154.2	2151.4	2148.5	2151.4	2142.8	2140.0	2140.0
10°	2165.5	2159.9	2159.9	2151.4	2145.7	2137.2	2128.6	2131.5	2120.1	2111.6	2111.6
12.5°	2131.5	2117.3	2108.8	2100.3	2094.6	2091.7	2080.4	2086.1	2074.7	2071.9	2071.9
15°	2054.9	2037.8	2023.6	2018.0	2018.0	2012.3	2003.8	2015.1	2009.4	2012.3	2026.5
17.5°	1935.6	1927.1	1918.6	1915.8	1918.6	1924.3	1930.0	1947.0	1947.0	1955.5	1969.7
20°	1830.6	1825.0	1830.6	1830.6	1833.5	1844.8	1856.2	1870.4	1876.0	1884.6	1904.4
22.5°	1728.5	1728.5	1734.1	1742.7	1739.8	1759.7	1762.5	1788.1	1788.1	1805.1	1822.1
25°	1629.1	1629.1	1634.8	1637.6	1643.3	1654.7	1666.0	1685.9	1691.6	1708.6	1722.8
27.5°	1532.6	1529.8	1529.8	1532.6	1538.3	1552.5	1558.2	1580.9	1589.4	1600.7	1614.9
30°	1424.8	1421.9	1427.6	1433.3	1430.4	1444.6	1453.2	1470.2	1475.9	1487.2	1498.6
32.5°	1322.6	1322.6	1322.6	1328.3	1328.3	1339.6	1339.6	1359.5	1359.5	1368.0	1379.4
35°	1217.6	1217.6	1220.4	1223.3	1226.1	1228.9	1231.8	1243.1	1246.0	1248.8	1254.5
37.5°	1118.2	1115.4	1118.2	1118.2	1112.6	1123.9	1123.9	1135.3	1126.8	1135.3	1138.1
40°	1016.1	1016.1	1013.2	1013.2	1013.2	1018.9	1013.2	1021.7	1016.1	1021.7	1018.9
42.5°	911.1	911.1	905.4	911.1	908.2	908.2	908.2	913.9	905.4	911.1	913.9
45°	806.0	803.2	803.2	800.4	800.4	800.4	803.2	803.2	800.4	806.0	806.0
47.5°	703.9	701.0	701.0	701.0	701.0	703.9	695.4	701.0	695.4	695.4	695.4
50°	615.9	613.0	610.2	607.4	604.5	604.5	601.7	601.7	596.0	593.2	590.3
52.5°	530.7	527.9	522.2	522.2	519.4	516.6	508.0	508.0	499.5	496.7	496.7
55°	454.1	445.6	442.8	437.1	437.1	431.4	425.7	420.1	411.5	405.9	405.9
57.5°	383.2	374.6	369.0	366.1	363.3	357.6	346.3	343.4	332.1	329.2	326.4
60°	320.7	312.2	303.7	298.0	295.2	286.7	275.3	269.6	264.0	255.4	246.9
62.5°	261.1	252.6	241.2	238.4	232.7	224.2	215.7	207.2	201.5	193.0	187.3
65°	210.0	201.5	193.0	187.3	181.6	173.1	164.6	156.1	150.4	147.6	144.7
67.5°	170.3	158.9	150.4	147.6	141.9	136.2	127.7	124.9	119.2	119.2	119.2
70°	133.4	124.9	116.4	113.5	110.7	105.0	99.3	99.3	99.3	99.3	99.3
72.5°	99.3	93.7	85.1	82.3	79.5	76.6	71.0	73.8	71.0	71.0	71.0
75°	62.4	56.8	51.1	48.2	45.4	42.6	39.7	36.9	34.1	31.2	31.2
77.5°	34.1	28.4	25.5	22.7	22.7	19.9	17.0	17.0	14.2	14.2	14.2
80°	19.9	17.0	14.2	11.4	11.4	8.5	8.5	8.5	8.5	5.7	5.7
82.5°	11.4	8.5	5.7	5.7	5.7	5.7	2.8	2.8	2.8	2.8	2.8
85°	5.7	5.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	0.0
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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: P252425

CATALOG NUMBER: LD6B60D010TE EU6B60709727 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2185.4	2185.4	2185.4	2185.4	2185.4	2185.4	2185.4	2185.4
2.5°	2168.4	2176.9	2168.4	2176.9	2176.9	2176.9	2176.9	2168.4
5°	2154.2	2159.9	2151.4	2157.0	2159.9	2157.0	2157.0	2148.5
7.5°	2128.6	2134.3	2125.8	2134.3	2137.2	2134.3	2131.5	2125.8
10°	2103.1	2105.9	2097.4	2103.1	2108.8	2108.8	2105.9	2097.4
12.5°	2063.4	2071.9	2063.4	2069.0	2074.7	2077.6	2077.6	2069.0
15°	2018.0	2032.1	2026.5	2035.0	2043.5	2046.3	2046.3	2043.5
17.5°	1972.5	1986.7	1978.2	1992.4	2000.9	2006.6	2009.4	2003.8
20°	1907.3	1924.3	1918.6	1930.0	1941.3	1949.8	1949.8	1941.3
22.5°	1822.1	1844.8	1842.0	1850.5	1864.7	1867.5	1873.2	1867.5
25°	1728.5	1745.5	1742.7	1751.2	1768.2	1768.2	1771.0	1771.0
27.5°	1620.6	1637.6	1634.8	1640.5	1651.8	1654.7	1657.5	1651.8
30°	1504.2	1512.8	1512.8	1521.3	1529.8	1532.6	1532.6	1524.1
32.5°	1376.5	1387.9	1393.6	1390.7	1399.2	1404.9	1402.1	1402.1
35°	1260.2	1263.0	1265.8	1268.7	1271.5	1277.2	1271.5	1268.7
37.5°	1135.3	1143.8	1138.1	1143.8	1149.5	1146.6	1143.8	1143.8
40°	1021.7	1024.6	1018.9	1024.6	1027.4	1027.4	1027.4	1021.7
42.5°	908.2	913.9	908.2	913.9	913.9	913.9	913.9	911.1
45°	794.7	800.4	800.4	803.2	803.2	800.4	800.4	800.4
47.5°	689.7	695.4	689.7	695.4	698.2	692.5	692.5	692.5
50°	590.3	587.5	587.5	590.3	590.3	590.3	590.3	587.5
52.5°	488.2	491.0	491.0	491.0	493.8	491.0	493.8	493.8
55°	400.2	400.2	400.2	403.0	400.2	400.2	403.0	405.9
57.5°	320.7	317.9	315.0	315.0	317.9	315.0	315.0	315.0
60°	246.9	244.1	241.2	241.2	241.2	241.2	241.2	238.4
62.5°	184.5	184.5	184.5	187.3	187.3	187.3	187.3	190.2
65°	147.6	147.6	147.6	147.6	147.6	147.6	147.6	150.4
67.5°	119.2	119.2	119.2	122.0	122.0	122.0	122.0	122.0
70°	99.3	99.3	102.2	99.3	102.2	102.2	102.2	102.2
72.5°	68.1	68.1	68.1	68.1	68.1	65.3	68.1	65.3
75°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	25.5
77.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
80°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	2.8	2.8	2.8	2.8	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)