

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: P252524

Luminaire Tested: **LD6B60D010TE EU6B60709027 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252524
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: io LED
Catalog Number: LD6B60D010TE EU6B60709027 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4165.0 lumens
Efficiency: N/A
Efficacy: 66.7 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

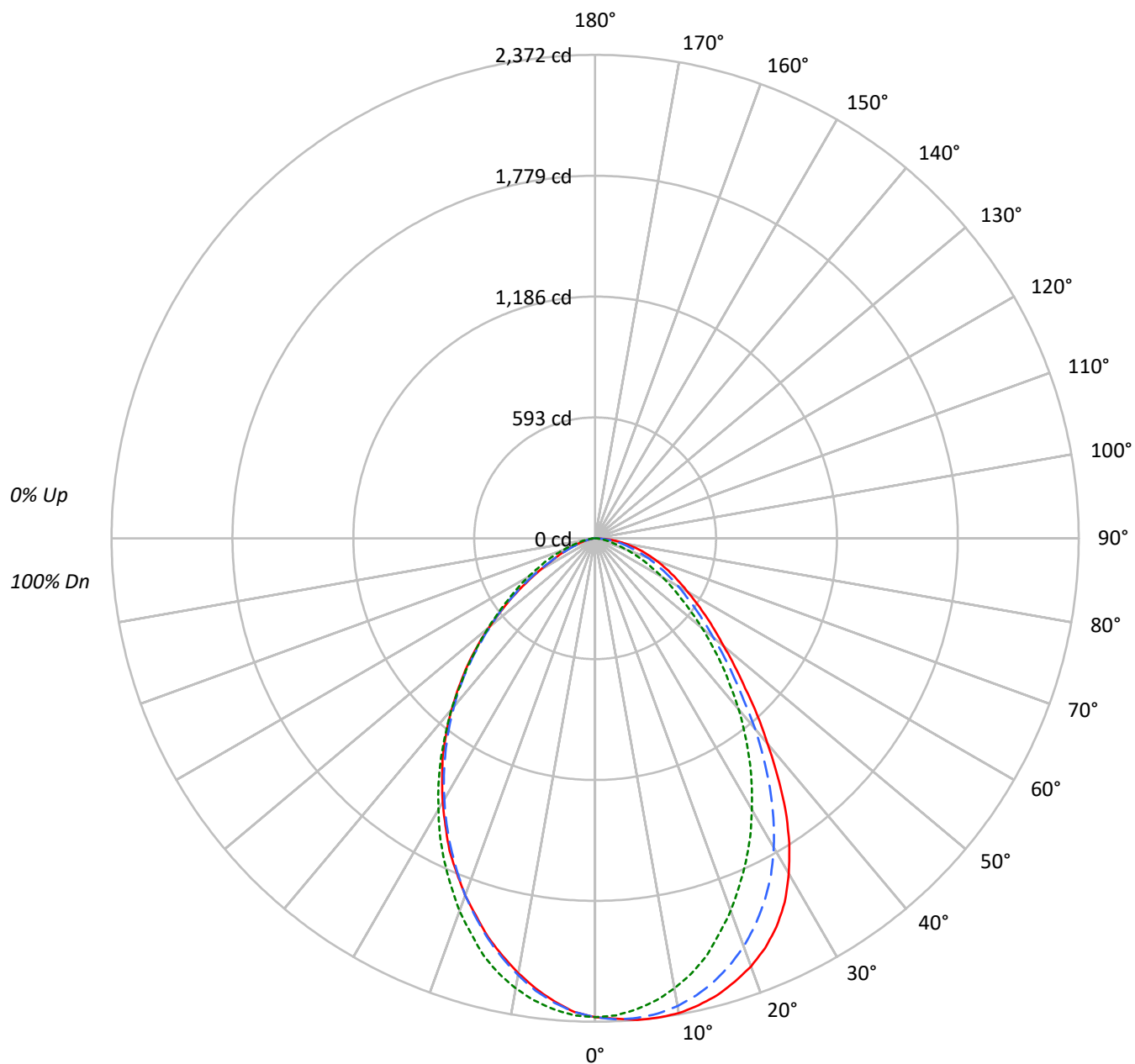
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252524

CATALOG NUMBER: LD6B60D010TE EU6B60709027 6LBLWW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252524

CATALOG NUMBER: LD6B60D010TE EU6B60709027 6LBLWW1H

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	153296	153296	153296
5°	155375	151956	149389
10°	156741	148526	143551
15°	156718	143054	136881
20°	155205	135037	129371
25°	151521	125916	121691
30°	143081	115795	112601
35°	129700	105003	103705
40°	112010	93384	93112
45°	96047	81294	81903
50°	83471	69555	68561
55°	74980	58646	54938
60°	68137	49400	40449
65°	63987	40801	29717
70°	61002	31741	21784
75°	58405	23039	14797
80°	55191	15930	9806
85°	48880	9806	4866



TEST NUMBER: P252524

CATALOG NUMBER: LD6B60D010TE EU6B60709027 6LBLWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.8	5.3
10°-20°	602.0	14.5
20°-30°	835.7	20.1
30°-40°	865.6	20.8
40°-50°	711.3	17.1
50°-60°	488.9	11.7
60°-70°	281.0	6.7
70°-80°	129.2	3.1
80°-90°	31.5	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°	1657.5	39.8
0°-40°	2523.1	60.6
0°-60°	3723.3	89.4
0°-90°	4165.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4165.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2350	2350	2350	2350	2350	
5°	2372	2363	2320	2288	2281	226
15°	2320	2252	2118	2033	2027	654
25°	2105	1965	1749	1674	1690	963
35°	1628	1495	1318	1279	1302	1010
45°	1041	963	881	871	888	811
55°	659	597	516	486	483	593
65°	414	362	264	186	192	413
75°	232	183	91	59	59	245
85°	65	46	13	6	6	73
90°	0	0	0	0	0	



TEST NUMBER: P252524

CATALOG NUMBER: LD6B60D010TE EU6B60709027 6LBLWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7
2.5°	2359.5	2379.0	2366.0	2362.7	2369.3	2369.3	2369.3	2359.5	2366.0	2356.2	2362.7
5°	2372.5	2388.8	2375.8	2369.3	2375.8	2379.0	2369.3	2362.7	2372.5	2359.5	2362.7
7.5°	2372.5	2388.8	2375.8	2372.5	2375.8	2375.8	2372.5	2359.5	2366.0	2352.9	2352.9
10°	2366.0	2379.0	2366.0	2359.5	2362.7	2359.5	2359.5	2343.1	2346.4	2330.1	2330.1
12.5°	2346.4	2362.7	2346.4	2339.9	2339.9	2339.9	2330.1	2317.0	2320.3	2300.7	2297.5
15°	2320.3	2333.4	2317.0	2310.5	2310.5	2307.3	2300.7	2281.1	2281.1	2261.6	2251.8
17.5°	2281.1	2294.2	2281.1	2271.4	2268.1	2261.6	2255.0	2235.5	2228.9	2206.1	2196.3
20°	2235.5	2245.2	2232.2	2222.4	2215.9	2209.3	2196.3	2176.7	2170.2	2147.3	2131.0
22.5°	2176.7	2189.8	2170.2	2160.4	2153.9	2144.1	2131.0	2111.4	2101.7	2072.3	2052.7
25°	2104.9	2111.4	2095.1	2085.3	2072.3	2065.8	2056.0	2029.9	2020.1	1987.4	1964.6
27.5°	2013.5	2020.1	2000.5	1994.0	1977.6	1971.1	1958.1	1935.2	1922.2	1889.5	1866.7
30°	1899.3	1905.8	1892.8	1883.0	1870.0	1856.9	1847.1	1824.3	1804.7	1772.0	1752.5
32.5°	1772.0	1781.8	1768.8	1755.7	1732.9	1736.1	1719.8	1697.0	1680.7	1651.3	1628.5
35°	1628.5	1635.0	1618.7	1615.4	1602.3	1589.3	1573.0	1556.7	1546.9	1514.2	1494.7
37.5°	1468.5	1484.9	1468.5	1455.5	1449.0	1439.2	1429.4	1406.5	1400.0	1380.4	1354.3
40°	1315.2	1325.0	1315.2	1302.1	1292.3	1292.3	1279.3	1266.2	1249.9	1230.3	1220.5
42.5°	1178.1	1171.6	1168.3	1161.8	1148.7	1145.5	1142.2	1125.9	1116.1	1096.5	1080.2
45°	1041.0	1044.3	1037.8	1034.5	1024.7	1018.2	1011.7	998.6	995.3	975.8	962.7
47.5°	926.8	923.6	917.0	917.0	910.5	904.0	897.4	887.7	884.4	868.1	855.0
50°	822.4	825.7	822.4	819.1	809.3	806.1	799.5	793.0	786.5	770.2	757.1
52.5°	737.5	734.3	731.0	731.0	721.2	718.0	711.4	704.9	698.4	682.1	672.3
55°	659.2	659.2	656.0	652.7	642.9	639.6	636.4	629.8	620.1	607.0	597.2
57.5°	587.4	587.4	584.2	580.9	574.4	574.4	567.8	561.3	554.8	541.7	528.7
60°	522.2	525.4	522.2	518.9	512.4	512.4	509.1	499.3	496.0	479.7	469.9
62.5°	466.7	466.7	466.7	463.4	460.1	453.6	453.6	443.8	437.3	427.5	414.5
65°	414.5	414.5	414.5	411.2	404.7	401.4	398.1	391.6	385.1	375.3	362.2
67.5°	365.5	365.5	365.5	362.2	355.7	352.5	349.2	345.9	336.1	326.3	313.3
70°	319.8	319.8	316.6	313.3	310.0	306.8	303.5	297.0	290.4	277.4	267.6
72.5°	274.1	274.1	274.1	267.6	264.3	264.3	257.8	254.5	248.0	235.0	225.2
75°	231.7	228.4	228.4	225.2	221.9	218.7	215.4	212.1	202.3	195.8	182.8
77.5°	189.3	189.3	186.0	182.8	182.8	179.5	176.2	169.7	166.4	156.6	146.9
80°	146.9	146.9	146.9	146.9	143.6	140.3	140.3	133.8	130.5	120.7	114.2
82.5°	111.0	107.7	107.7	107.7	104.4	101.2	101.2	97.9	94.6	88.1	81.6
85°	65.3	62.0	62.0	62.0	58.7	58.7	55.5	55.5	52.2	45.7	45.7
87.5°	19.6	19.6	22.8	22.8	19.6	19.6	19.6	19.6	19.6	16.3	16.3
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: P252524

CATALOG NUMBER: LD6B60D010TE EU6B60709027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7
2.5°	2356.2	2366.0	2352.9	2349.7	2362.7	2356.2	2352.9	2346.4	2349.7	2343.1	2333.4
5°	2352.9	2366.0	2349.7	2339.9	2356.2	2346.4	2339.9	2333.4	2333.4	2320.3	2313.8
7.5°	2343.1	2349.7	2333.4	2323.6	2333.4	2323.6	2317.0	2307.3	2304.0	2287.7	2277.9
10°	2317.0	2323.6	2304.0	2290.9	2300.7	2287.7	2277.9	2268.1	2261.6	2242.0	2228.9
12.5°	2281.1	2284.4	2261.6	2245.2	2251.8	2242.0	2225.7	2212.6	2206.1	2186.5	2170.2
15°	2232.2	2235.5	2209.3	2186.5	2193.0	2180.0	2160.4	2147.3	2137.6	2118.0	2095.1
17.5°	2173.5	2170.2	2140.8	2118.0	2121.2	2104.9	2085.3	2065.8	2052.7	2029.9	2013.5
20°	2108.2	2098.4	2065.8	2039.6	2042.9	2023.3	2000.5	1980.9	1964.6	1945.0	1922.2
22.5°	2026.6	2013.5	1984.2	1951.5	1954.8	1938.5	1905.8	1889.5	1873.2	1847.1	1827.5
25°	1938.5	1918.9	1889.5	1856.9	1856.9	1837.3	1811.2	1791.6	1775.3	1749.2	1726.4
27.5°	1834.1	1824.3	1785.1	1759.0	1755.7	1736.1	1713.3	1690.5	1670.9	1648.0	1625.2
30°	1719.8	1703.5	1674.1	1644.8	1638.2	1621.9	1599.1	1573.0	1559.9	1537.1	1517.5
32.5°	1599.1	1582.8	1550.1	1520.8	1517.5	1504.4	1484.9	1458.8	1445.7	1429.4	1416.3
35°	1462.0	1455.5	1422.9	1400.0	1400.0	1387.0	1367.4	1344.5	1334.7	1318.4	1302.1
37.5°	1331.5	1321.7	1292.3	1272.7	1272.7	1256.4	1236.8	1227.1	1217.3	1204.2	1194.4
40°	1194.4	1187.9	1165.0	1145.5	1148.7	1135.7	1122.6	1109.6	1103.0	1096.5	1086.7
42.5°	1067.1	1060.6	1044.3	1028.0	1028.0	1018.2	1005.1	995.3	988.8	979.0	975.8
45°	952.9	943.1	930.1	913.8	913.8	904.0	897.4	890.9	887.7	881.1	871.3
47.5°	842.0	835.4	822.4	806.1	806.1	806.1	793.0	783.2	783.2	776.7	773.4
50°	747.3	737.5	727.7	714.7	714.7	708.2	698.4	688.6	688.6	685.3	678.8
52.5°	659.2	652.7	639.6	626.6	626.6	620.1	610.3	607.0	603.7	593.9	590.7
55°	584.2	577.6	567.8	551.5	548.3	545.0	535.2	528.7	525.4	515.6	515.6
57.5°	515.6	509.1	492.8	483.0	479.7	473.2	463.4	456.9	453.6	447.1	440.6
60°	456.9	447.1	434.0	421.0	417.7	411.2	401.4	394.9	391.6	378.6	372.0
62.5°	401.4	391.6	378.6	365.5	362.2	355.7	342.7	336.1	329.6	316.6	310.0
65°	349.2	339.4	326.3	313.3	306.8	303.5	290.4	280.7	274.1	264.3	251.3
67.5°	300.2	290.4	277.4	261.1	261.1	251.3	241.5	231.7	221.9	212.1	202.3
70°	254.5	244.8	231.7	218.7	215.4	208.9	199.1	186.0	179.5	166.4	156.6
72.5°	212.1	202.3	189.3	176.2	173.0	166.4	156.6	143.6	133.8	124.0	114.2
75°	173.0	163.2	150.1	140.3	137.1	130.5	120.7	107.7	97.9	91.4	81.6
77.5°	137.1	127.3	117.5	107.7	104.4	97.9	88.1	81.6	71.8	65.3	55.5
80°	104.4	97.9	88.1	81.6	78.3	71.8	65.3	55.5	49.0	42.4	39.2
82.5°	75.1	68.5	62.0	52.2	52.2	45.7	42.4	35.9	29.4	26.1	22.8
85°	42.4	35.9	32.6	29.4	26.1	26.1	22.8	19.6	16.3	13.1	13.1
87.5°	13.1	13.1	9.8	9.8	9.8	9.8	6.5	6.5	6.5	6.5	6.5
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: P252524

CATALOG NUMBER: LD6B60D010TE EU6B60709027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7
2.5°	2333.4	2336.6	2330.1	2336.6	2330.1	2333.4	2326.8	2333.4	2326.8	2333.4	2320.3
5°	2310.5	2310.5	2300.7	2307.3	2300.7	2304.0	2290.9	2294.2	2287.7	2294.2	2281.1
7.5°	2271.4	2274.6	2258.3	2264.8	2255.0	2255.0	2245.2	2248.5	2238.7	2242.0	2232.2
10°	2225.7	2222.4	2206.1	2212.6	2199.6	2199.6	2189.8	2189.8	2176.7	2180.0	2166.9
12.5°	2160.4	2157.1	2137.6	2144.1	2131.0	2131.0	2121.2	2121.2	2108.2	2114.7	2101.7
15°	2085.3	2082.1	2062.5	2065.8	2052.7	2052.7	2039.6	2042.9	2033.1	2039.6	2026.6
17.5°	2000.5	1997.2	1977.6	1980.9	1964.6	1967.9	1958.1	1954.8	1948.3	1951.5	1941.7
20°	1912.4	1905.8	1886.3	1889.5	1883.0	1873.2	1866.7	1870.0	1863.4	1870.0	1860.2
22.5°	1821.0	1807.9	1791.6	1791.6	1785.1	1785.1	1775.3	1781.8	1768.8	1778.6	1772.0
25°	1716.6	1706.8	1693.7	1700.3	1687.2	1687.2	1677.4	1680.7	1674.1	1680.7	1674.1
27.5°	1615.4	1608.9	1589.3	1595.8	1586.0	1589.3	1579.5	1582.8	1579.5	1586.0	1579.5
30°	1507.7	1504.4	1491.4	1491.4	1488.1	1484.9	1481.6	1481.6	1478.3	1488.1	1481.6
32.5°	1406.5	1396.8	1383.7	1393.5	1377.2	1387.0	1380.4	1387.0	1380.4	1387.0	1383.7
35°	1302.1	1298.8	1282.5	1285.8	1282.5	1282.5	1279.3	1279.3	1279.3	1289.1	1289.1
37.5°	1191.2	1187.9	1178.1	1181.4	1174.8	1171.6	1171.6	1178.1	1178.1	1184.6	1184.6
40°	1083.5	1086.7	1076.9	1076.9	1073.7	1073.7	1073.7	1080.2	1076.9	1083.5	1080.2
42.5°	975.8	975.8	966.0	969.2	966.0	969.2	969.2	975.8	975.8	979.0	975.8
45°	874.6	874.6	871.3	874.6	868.1	871.3	868.1	874.6	871.3	874.6	874.6
47.5°	773.4	773.4	773.4	770.2	770.2	770.2	770.2	770.2	766.9	773.4	770.2
50°	678.8	682.1	678.8	678.8	675.5	678.8	675.5	675.5	669.0	672.3	672.3
52.5°	593.9	593.9	587.4	587.4	587.4	584.2	584.2	584.2	580.9	580.9	574.4
55°	512.4	512.4	505.8	505.8	502.6	499.3	496.0	496.0	486.3	486.3	476.5
57.5°	437.3	434.0	424.2	424.2	417.7	414.5	411.2	407.9	401.4	394.9	391.6
60°	368.8	362.2	355.7	352.5	345.9	339.4	332.9	326.3	319.8	316.6	313.3
62.5°	303.5	293.7	287.2	283.9	277.4	267.6	261.1	254.5	248.0	244.8	238.2
65°	244.8	235.0	225.2	221.9	215.4	208.9	199.1	192.5	186.0	182.8	182.8
67.5°	192.5	182.8	169.7	169.7	163.2	156.6	150.1	143.6	140.3	143.6	143.6
70°	143.6	137.1	127.3	124.0	117.5	111.0	107.7	107.7	107.7	111.0	107.7
72.5°	107.7	97.9	91.4	88.1	84.8	81.6	81.6	81.6	78.3	81.6	81.6
75°	75.1	68.5	62.0	62.0	58.7	58.7	58.7	58.7	58.7	58.7	58.7
77.5°	52.2	45.7	42.4	42.4	42.4	39.2	39.2	39.2	39.2	39.2	39.2
80°	32.6	32.6	29.4	29.4	26.1	26.1	26.1	26.1	26.1	26.1	26.1
82.5°	19.6	19.6	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
85°	9.8	9.8	9.8	9.8	9.8	6.5	6.5	6.5	6.5	6.5	6.5
87.5°	3.3	3.3	3.3	3.3	3.3	6.5	6.5	6.5	6.5	6.5	6.5
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: P252524

CATALOG NUMBER: LD6B60D010TE EU6B60709027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7
2.5°	2320.3	2330.1	2317.0	2326.8	2323.6	2320.3	2313.8	2326.8
5°	2281.1	2284.4	2271.4	2284.4	2281.1	2274.6	2268.1	2281.1
7.5°	2225.7	2235.5	2219.1	2232.2	2228.9	2222.4	2215.9	2228.9
10°	2163.7	2173.5	2160.4	2170.2	2170.2	2163.7	2153.9	2166.9
12.5°	2095.1	2101.7	2088.6	2101.7	2098.4	2091.9	2088.6	2098.4
15°	2020.1	2029.9	2016.8	2026.6	2023.3	2020.1	2016.8	2026.6
17.5°	1938.5	1948.3	1938.5	1948.3	1948.3	1938.5	1935.2	1941.7
20°	1856.9	1863.4	1853.6	1863.4	1860.2	1860.2	1853.6	1863.4
22.5°	1765.5	1775.3	1768.8	1775.3	1772.0	1772.0	1768.8	1775.3
25°	1674.1	1683.9	1674.1	1683.9	1680.7	1680.7	1674.1	1690.5
27.5°	1582.8	1589.3	1579.5	1592.6	1589.3	1582.8	1586.0	1589.3
30°	1484.9	1491.4	1484.9	1494.7	1494.7	1494.7	1488.1	1494.7
32.5°	1387.0	1396.8	1387.0	1396.8	1393.5	1393.5	1390.2	1396.8
35°	1289.1	1292.3	1285.8	1295.6	1295.6	1298.8	1292.3	1302.1
37.5°	1187.9	1191.2	1187.9	1191.2	1197.7	1187.9	1194.4	1197.7
40°	1083.5	1090.0	1086.7	1090.0	1090.0	1093.3	1090.0	1093.3
42.5°	979.0	985.6	979.0	988.8	985.6	985.6	988.8	988.8
45°	871.3	881.1	874.6	881.1	884.4	881.1	881.1	887.7
47.5°	770.2	776.7	773.4	776.7	776.7	776.7	776.7	783.2
50°	669.0	672.3	672.3	675.5	675.5	678.8	672.3	675.5
52.5°	567.8	574.4	574.4	574.4	571.1	574.4	574.4	574.4
55°	476.5	479.7	473.2	479.7	479.7	476.5	476.5	483.0
57.5°	388.3	388.3	388.3	388.3	388.3	385.1	388.3	388.3
60°	306.8	310.0	306.8	306.8	306.8	306.8	303.5	310.0
62.5°	238.2	238.2	235.0	238.2	238.2	238.2	241.5	241.5
65°	186.0	189.3	186.0	189.3	189.3	189.3	189.3	192.5
67.5°	146.9	146.9	146.9	146.9	146.9	146.9	146.9	146.9
70°	111.0	111.0	111.0	114.2	111.0	111.0	111.0	114.2
72.5°	81.6	81.6	81.6	81.6	81.6	81.6	84.8	84.8
75°	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
77.5°	39.2	39.2	39.2	42.4	39.2	42.4	39.2	39.2
80°	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1
82.5°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
85°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
87.5°	6.5	6.5	6.5	6.5	3.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)