

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: P252512

Luminaire Tested: **LD6B50D010TE EU6B30509030 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252512
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: LD6B50D010TE EU6B30509030 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3876.0 lumens
Efficiency: N/A
Efficacy: 66.0 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

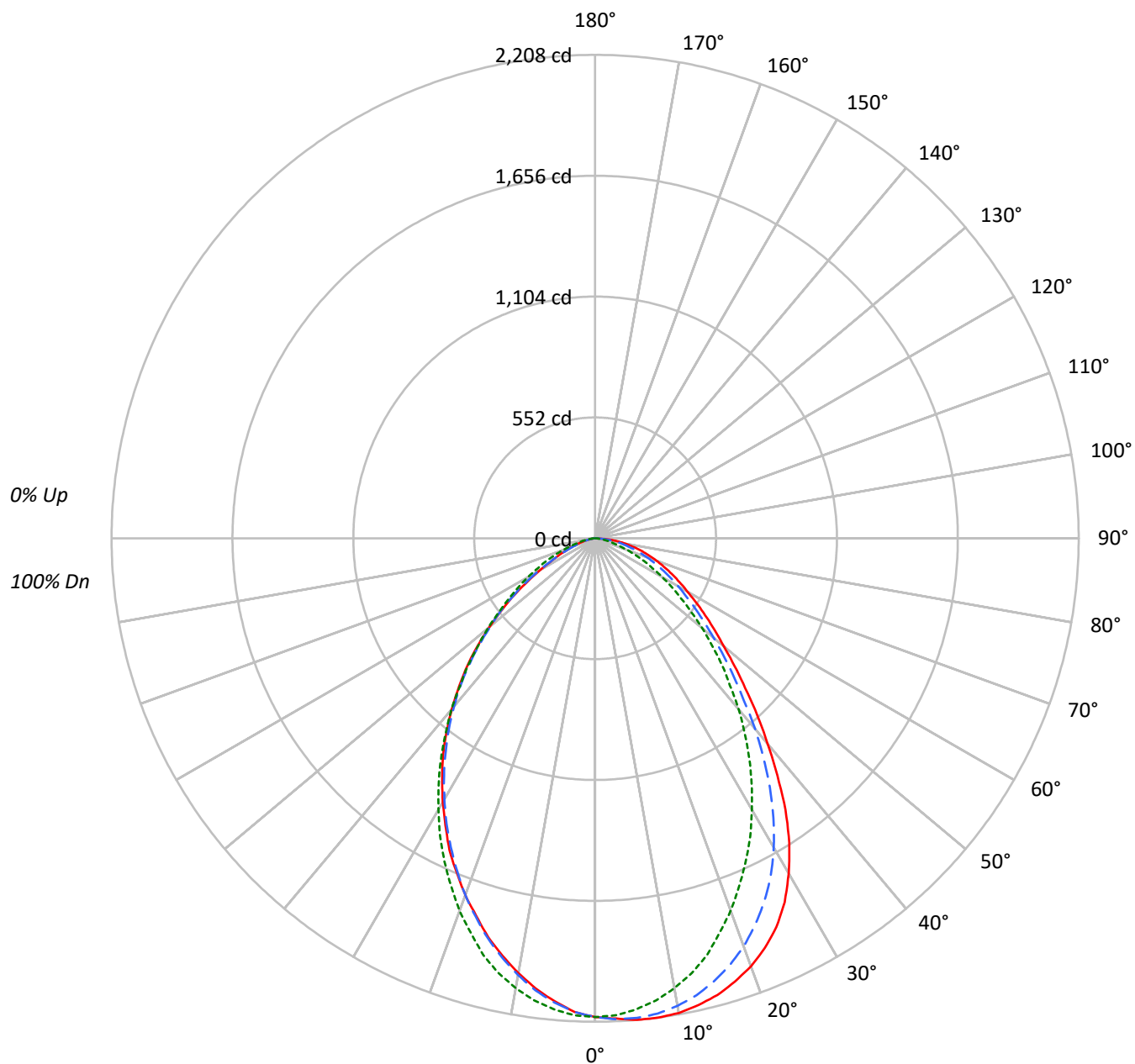
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252512

CATALOG NUMBER: LD6B50D010TE EU6B30509030 6LBLWW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252512

CATALOG NUMBER: LD6B50D010TE EU6B30509030 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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	142655	142655	142655
5°	144595	141412	139028
10°	145863	138218	133594
15°	145844	133125	127384
20°	144430	125671	120394
25°	141012	117177	113247
30°	133152	107757	104781
35°	120701	97715	96513
40°	104234	86903	86647
45°	89386	75657	76219
50°	77675	64734	63811
55°	69782	54574	51128
60°	63401	45969	37644
65°	59541	37976	27664
70°	56767	29547	20277
75°	54346	21426	13788
80°	51359	14840	9130
85°	45437	9057	4566



TEST NUMBER: P252512

CATALOG NUMBER: LD6B50D010TE EU6B30509030 6LBLWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.5	5.3
10°-20°	560.2	14.5
20°-30°	777.7	20.1
30°-40°	805.6	20.8
40°-50°	662.0	17.1
50°-60°	455.0	11.7
60°-70°	261.5	6.7
70°-80°	120.2	3.1
80°-90°	29.3	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°	1542.5	39.8
0°-40°	2348.0	60.6
0°-60°	3465.0	89.4
0°-90°	3876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3876.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2187	2187	2187	2187	2187	
5°	2208	2199	2159	2129	2123	210
15°	2159	2096	1971	1892	1886	608
25°	1959	1828	1628	1558	1573	896
35°	1516	1391	1227	1190	1212	940
45°	969	896	820	811	826	755
55°	614	556	480	452	450	552
65°	386	337	246	173	179	384
75°	216	170	85	55	55	228
85°	61	42	12	6	6	68
90°	0	0	0	0	0	



TEST NUMBER: P252512

CATALOG NUMBER: LD6B50D010TE EU6B30509030 6LBLWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2186.6	2186.6	2186.6	2186.6	2186.6	2186.6	2186.6	2186.6	2186.6	2186.6	2186.6
2.5°	2195.7	2214.0	2201.8	2198.8	2204.9	2204.9	2204.9	2195.7	2201.8	2192.7	2198.8
5°	2207.9	2223.1	2210.9	2204.9	2210.9	2214.0	2204.9	2198.8	2207.9	2195.7	2198.8
7.5°	2207.9	2223.1	2210.9	2207.9	2210.9	2210.9	2207.9	2195.7	2201.8	2189.7	2189.7
10°	2201.8	2214.0	2201.8	2195.7	2198.8	2195.7	2195.7	2180.6	2183.6	2168.4	2168.4
12.5°	2183.6	2198.8	2183.6	2177.5	2177.5	2177.5	2168.4	2156.3	2159.3	2141.1	2138.0
15°	2159.3	2171.5	2156.3	2150.2	2150.2	2147.2	2141.1	2122.9	2122.9	2104.6	2095.5
17.5°	2122.9	2135.0	2122.9	2113.7	2110.7	2104.6	2098.6	2080.3	2074.3	2053.0	2043.9
20°	2080.3	2089.5	2077.3	2068.2	2062.1	2056.0	2043.9	2025.7	2019.6	1998.3	1983.2
22.5°	2025.7	2037.8	2019.6	2010.5	2004.4	1995.3	1983.2	1964.9	1955.8	1928.5	1910.3
25°	1958.9	1964.9	1949.8	1940.6	1928.5	1922.4	1913.3	1889.0	1879.9	1849.5	1828.3
27.5°	1873.8	1879.9	1861.7	1855.6	1840.4	1834.3	1822.2	1800.9	1788.8	1758.4	1737.2
30°	1767.5	1773.6	1761.5	1752.3	1740.2	1728.1	1718.9	1697.7	1679.5	1649.1	1630.9
32.5°	1649.1	1658.2	1646.1	1633.9	1612.6	1615.7	1600.5	1579.2	1564.1	1536.7	1515.5
35°	1515.5	1521.5	1506.4	1503.3	1491.2	1479.0	1463.8	1448.6	1439.5	1409.2	1390.9
37.5°	1366.6	1381.8	1366.6	1354.5	1348.4	1339.3	1330.2	1308.9	1302.9	1284.6	1260.4
40°	1223.9	1233.0	1223.9	1211.8	1202.7	1202.7	1190.5	1178.4	1163.2	1144.9	1135.8
42.5°	1096.4	1090.3	1087.2	1081.2	1069.0	1066.0	1062.9	1047.8	1038.7	1020.4	1005.2
45°	968.8	971.8	965.8	962.7	953.6	947.5	941.5	929.3	926.3	908.1	895.9
47.5°	862.5	859.5	853.4	853.4	847.3	841.2	835.2	826.1	823.0	807.8	795.7
50°	765.3	768.4	765.3	762.3	753.2	750.1	744.1	738.0	731.9	716.7	704.6
52.5°	686.4	683.3	680.3	680.3	671.2	668.1	662.1	656.0	649.9	634.7	625.6
55°	613.5	613.5	610.4	607.4	598.3	595.3	592.2	586.1	577.0	564.9	555.8
57.5°	546.7	546.7	543.6	540.6	534.5	534.5	528.4	522.4	516.3	504.1	492.0
60°	485.9	489.0	485.9	482.9	476.8	476.8	473.8	464.7	461.6	446.4	437.3
62.5°	434.3	434.3	434.3	431.3	428.2	422.1	422.1	413.0	407.0	397.8	385.7
65°	385.7	385.7	385.7	382.7	376.6	373.6	370.5	364.4	358.4	349.3	337.1
67.5°	340.1	340.1	340.1	337.1	331.0	328.0	325.0	321.9	312.8	303.7	291.6
70°	297.6	297.6	294.6	291.6	288.5	285.5	282.4	276.4	270.3	258.1	249.0
72.5°	255.1	255.1	255.1	249.0	246.0	246.0	239.9	236.9	230.8	218.7	209.6
75°	215.6	212.6	212.6	209.6	206.5	203.5	200.4	197.4	188.3	182.2	170.1
77.5°	176.1	176.1	173.1	170.1	170.1	167.0	164.0	157.9	154.9	145.8	136.7
80°	136.7	136.7	136.7	136.7	133.6	130.6	130.6	124.5	121.5	112.4	106.3
82.5°	103.3	100.2	100.2	100.2	97.2	94.1	94.1	91.1	88.1	82.0	75.9
85°	60.7	57.7	57.7	57.7	54.7	54.7	51.6	51.6	48.6	42.5	42.5
87.5°	18.2	18.2	21.3	21.3	18.2	18.2	18.2	18.2	18.2	15.2	15.2
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: P252512

CATALOG NUMBER: LD6B50D010TE EU6B30509030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2186.6	2186.6	2186.6	2186.6	2186.6	2186.6	2186.6	2186.6	2186.6	2186.6	2186.6
2.5°	2192.7	2201.8	2189.7	2186.6	2198.8	2192.7	2189.7	2183.6	2186.6	2180.6	2171.5
5°	2189.7	2201.8	2186.6	2177.5	2192.7	2183.6	2177.5	2171.5	2171.5	2159.3	2153.2
7.5°	2180.6	2186.6	2171.5	2162.3	2171.5	2162.3	2156.3	2147.2	2144.1	2128.9	2119.8
10°	2156.3	2162.3	2144.1	2132.0	2141.1	2128.9	2119.8	2110.7	2104.6	2086.4	2074.3
12.5°	2122.9	2125.9	2104.6	2089.5	2095.5	2086.4	2071.2	2059.1	2053.0	2034.8	2019.6
15°	2077.3	2080.3	2056.0	2034.8	2040.9	2028.7	2010.5	1998.3	1989.2	1971.0	1949.8
17.5°	2022.6	2019.6	1992.3	1971.0	1974.0	1958.9	1940.6	1922.4	1910.3	1889.0	1873.8
20°	1961.9	1952.8	1922.4	1898.1	1901.2	1882.9	1861.7	1843.5	1828.3	1810.1	1788.8
22.5°	1886.0	1873.8	1846.5	1816.1	1819.2	1804.0	1773.6	1758.4	1743.2	1718.9	1700.7
25°	1804.0	1785.8	1758.4	1728.1	1728.1	1709.8	1685.5	1667.3	1652.1	1627.8	1606.6
27.5°	1706.8	1697.7	1661.2	1636.9	1633.9	1615.7	1594.4	1573.2	1554.9	1533.7	1512.4
30°	1600.5	1585.3	1558.0	1530.6	1524.6	1509.4	1488.1	1463.8	1451.7	1430.4	1412.2
32.5°	1488.1	1472.9	1442.6	1415.2	1412.2	1400.1	1381.8	1357.5	1345.4	1330.2	1318.1
35°	1360.6	1354.5	1324.1	1302.9	1302.9	1290.7	1272.5	1251.2	1242.1	1226.9	1211.8
37.5°	1239.1	1230.0	1202.7	1184.4	1184.4	1169.2	1151.0	1141.9	1132.8	1120.7	1111.5
40°	1111.5	1105.5	1084.2	1066.0	1069.0	1056.9	1044.7	1032.6	1026.5	1020.4	1011.3
42.5°	993.1	987.0	971.8	956.7	956.7	947.5	935.4	926.3	920.2	911.1	908.1
45°	886.8	877.7	865.5	850.4	850.4	841.2	835.2	829.1	826.1	820.0	810.9
47.5°	783.5	777.5	765.3	750.1	750.1	750.1	738.0	728.9	728.9	722.8	719.8
50°	695.5	686.4	677.3	665.1	665.1	659.0	649.9	640.8	640.8	637.8	631.7
52.5°	613.5	607.4	595.3	583.1	583.1	577.0	567.9	564.9	561.8	552.7	549.7
55°	543.6	537.5	528.4	513.3	510.2	507.2	498.1	492.0	489.0	479.8	479.8
57.5°	479.8	473.8	458.6	449.5	446.4	440.4	431.3	425.2	422.1	416.1	410.0
60°	425.2	416.1	403.9	391.8	388.7	382.7	373.6	367.5	364.4	352.3	346.2
62.5°	373.6	364.4	352.3	340.1	337.1	331.0	318.9	312.8	306.7	294.6	288.5
65°	325.0	315.8	303.7	291.6	285.5	282.4	270.3	261.2	255.1	246.0	233.8
67.5°	279.4	270.3	258.1	243.0	243.0	233.8	224.7	215.6	206.5	197.4	188.3
70°	236.9	227.8	215.6	203.5	200.4	194.4	185.3	173.1	167.0	154.9	145.8
72.5°	197.4	188.3	176.1	164.0	161.0	154.9	145.8	133.6	124.5	115.4	106.3
75°	161.0	151.8	139.7	130.6	127.6	121.5	112.4	100.2	91.1	85.0	75.9
77.5°	127.6	118.4	109.3	100.2	97.2	91.1	82.0	75.9	66.8	60.7	51.6
80°	97.2	91.1	82.0	75.9	72.9	66.8	60.7	51.6	45.6	39.5	36.4
82.5°	69.9	63.8	57.7	48.6	48.6	42.5	39.5	33.4	27.3	24.3	21.3
85°	39.5	33.4	30.4	27.3	24.3	24.3	21.3	18.2	15.2	12.1	12.1
87.5°	12.1	12.1	9.1	9.1	9.1	9.1	6.1	6.1	6.1	6.1	6.1
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: P252512

CATALOG NUMBER: LD6B50D010TE EU6B30509030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2186.6	2186.6	2186.6	2186.6	2186.6	2186.6	2186.6	2186.6	2186.6	2186.6	2186.6
2.5°	2171.5	2174.5	2168.4	2174.5	2168.4	2171.5	2165.4	2171.5	2165.4	2171.5	2159.3
5°	2150.2	2150.2	2141.1	2147.2	2141.1	2144.1	2132.0	2135.0	2128.9	2135.0	2122.9
7.5°	2113.7	2116.8	2101.6	2107.7	2098.6	2098.6	2089.5	2092.5	2083.4	2086.4	2077.3
10°	2071.2	2068.2	2053.0	2059.1	2046.9	2046.9	2037.8	2037.8	2025.7	2028.7	2016.6
12.5°	2010.5	2007.5	1989.2	1995.3	1983.2	1983.2	1974.0	1974.0	1961.9	1968.0	1955.8
15°	1940.6	1937.6	1919.4	1922.4	1910.3	1910.3	1898.1	1901.2	1892.0	1898.1	1886.0
17.5°	1861.7	1858.6	1840.4	1843.5	1828.3	1831.3	1822.2	1819.2	1813.1	1816.1	1807.0
20°	1779.7	1773.6	1755.4	1758.4	1752.3	1743.2	1737.2	1740.2	1734.1	1740.2	1731.1
22.5°	1694.6	1682.5	1667.3	1667.3	1661.2	1661.2	1652.1	1658.2	1646.1	1655.2	1649.1
25°	1597.5	1588.3	1576.2	1582.3	1570.1	1570.1	1561.0	1564.1	1558.0	1564.1	1558.0
27.5°	1503.3	1497.2	1479.0	1485.1	1476.0	1479.0	1469.9	1472.9	1469.9	1476.0	1469.9
30°	1403.1	1400.1	1387.9	1387.9	1384.9	1381.8	1378.8	1378.8	1375.8	1384.9	1378.8
32.5°	1308.9	1299.8	1287.7	1296.8	1281.6	1290.7	1284.6	1290.7	1284.6	1290.7	1287.7
35°	1211.8	1208.7	1193.5	1196.6	1193.5	1193.5	1190.5	1190.5	1190.5	1199.6	1199.6
37.5°	1108.5	1105.5	1096.4	1099.4	1093.3	1090.3	1090.3	1096.4	1096.4	1102.4	1102.4
40°	1008.3	1011.3	1002.2	1002.2	999.2	999.2	999.2	1005.2	1002.2	1008.3	1005.2
42.5°	908.1	908.1	899.0	902.0	899.0	902.0	902.0	908.1	908.1	911.1	908.1
45°	813.9	813.9	810.9	813.9	807.8	810.9	807.8	813.9	810.9	813.9	813.9
47.5°	719.8	719.8	719.8	716.7	716.7	716.7	716.7	716.7	713.7	719.8	716.7
50°	631.7	634.7	631.7	631.7	628.7	631.7	628.7	628.7	622.6	625.6	625.6
52.5°	552.7	552.7	546.7	546.7	546.7	543.6	543.6	543.6	540.6	540.6	534.5
55°	476.8	476.8	470.7	470.7	467.7	464.7	461.6	461.6	452.5	452.5	443.4
57.5°	407.0	403.9	394.8	394.8	388.7	385.7	382.7	379.6	373.6	367.5	364.4
60°	343.2	337.1	331.0	328.0	321.9	315.8	309.8	303.7	297.6	294.6	291.6
62.5°	282.4	273.3	267.3	264.2	258.1	249.0	243.0	236.9	230.8	227.8	221.7
65°	227.8	218.7	209.6	206.5	200.4	194.4	185.3	179.2	173.1	170.1	170.1
67.5°	179.2	170.1	157.9	157.9	151.8	145.8	139.7	133.6	130.6	133.6	133.6
70°	133.6	127.6	118.4	115.4	109.3	103.3	100.2	100.2	100.2	103.3	100.2
72.5°	100.2	91.1	85.0	82.0	79.0	75.9	75.9	75.9	72.9	75.9	75.9
75°	69.9	63.8	57.7	57.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
77.5°	48.6	42.5	39.5	39.5	39.5	36.4	36.4	36.4	36.4	36.4	36.4
80°	30.4	30.4	27.3	27.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
82.5°	18.2	18.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
85°	9.1	9.1	9.1	9.1	9.1	6.1	6.1	6.1	6.1	6.1	6.1
87.5°	3.0	3.0	3.0	3.0	3.0	6.1	6.1	6.1	6.1	6.1	6.1
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: P252512

CATALOG NUMBER: LD6B50D010TE EU6B30509030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2186.6	2186.6	2186.6	2186.6	2186.6	2186.6	2186.6	2186.6
2.5°	2159.3	2168.4	2156.3	2165.4	2162.3	2159.3	2153.2	2165.4
5°	2122.9	2125.9	2113.7	2125.9	2122.9	2116.8	2110.7	2122.9
7.5°	2071.2	2080.3	2065.2	2077.3	2074.3	2068.2	2062.1	2074.3
10°	2013.5	2022.6	2010.5	2019.6	2019.6	2013.5	2004.4	2016.6
12.5°	1949.8	1955.8	1943.7	1955.8	1952.8	1946.7	1943.7	1952.8
15°	1879.9	1889.0	1876.9	1886.0	1882.9	1879.9	1876.9	1886.0
17.5°	1804.0	1813.1	1804.0	1813.1	1813.1	1804.0	1800.9	1807.0
20°	1728.1	1734.1	1725.0	1734.1	1731.1	1731.1	1725.0	1734.1
22.5°	1643.0	1652.1	1646.1	1652.1	1649.1	1649.1	1646.1	1652.1
25°	1558.0	1567.1	1558.0	1567.1	1564.1	1564.1	1558.0	1573.2
27.5°	1472.9	1479.0	1469.9	1482.1	1479.0	1472.9	1476.0	1479.0
30°	1381.8	1387.9	1381.8	1390.9	1390.9	1390.9	1384.9	1390.9
32.5°	1290.7	1299.8	1290.7	1299.8	1296.8	1296.8	1293.8	1299.8
35°	1199.6	1202.7	1196.6	1205.7	1205.7	1208.7	1202.7	1211.8
37.5°	1105.5	1108.5	1105.5	1108.5	1114.6	1105.5	1111.5	1114.6
40°	1008.3	1014.4	1011.3	1014.4	1014.4	1017.4	1014.4	1017.4
42.5°	911.1	917.2	911.1	920.2	917.2	917.2	920.2	920.2
45°	810.9	820.0	813.9	820.0	823.0	820.0	820.0	826.1
47.5°	716.7	722.8	719.8	722.8	722.8	722.8	722.8	728.9
50°	622.6	625.6	625.6	628.7	628.7	631.7	625.6	628.7
52.5°	528.4	534.5	534.5	534.5	531.5	534.5	534.5	534.5
55°	443.4	446.4	440.4	446.4	446.4	443.4	443.4	449.5
57.5°	361.4	361.4	361.4	361.4	361.4	358.4	361.4	361.4
60°	285.5	288.5	285.5	285.5	285.5	285.5	282.4	288.5
62.5°	221.7	221.7	218.7	221.7	221.7	221.7	224.7	224.7
65°	173.1	176.1	173.1	176.1	176.1	176.1	176.1	179.2
67.5°	136.7	136.7	136.7	136.7	136.7	136.7	136.7	136.7
70°	103.3	103.3	103.3	106.3	103.3	103.3	103.3	106.3
72.5°	75.9	75.9	75.9	75.9	75.9	75.9	79.0	79.0
75°	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
77.5°	36.4	36.4	36.4	39.5	36.4	39.5	36.4	36.4
80°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
82.5°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
85°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
87.5°	6.1	6.1	6.1	6.1	3.0	3.0	3.0	3.0
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)