

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: P252511

Luminaire Tested: **LD6B50D010TE EU6B30509027 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252511
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 EU6B30509027 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: 3728.0 lumens
Efficiency: N/A
Efficacy: 63.4 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

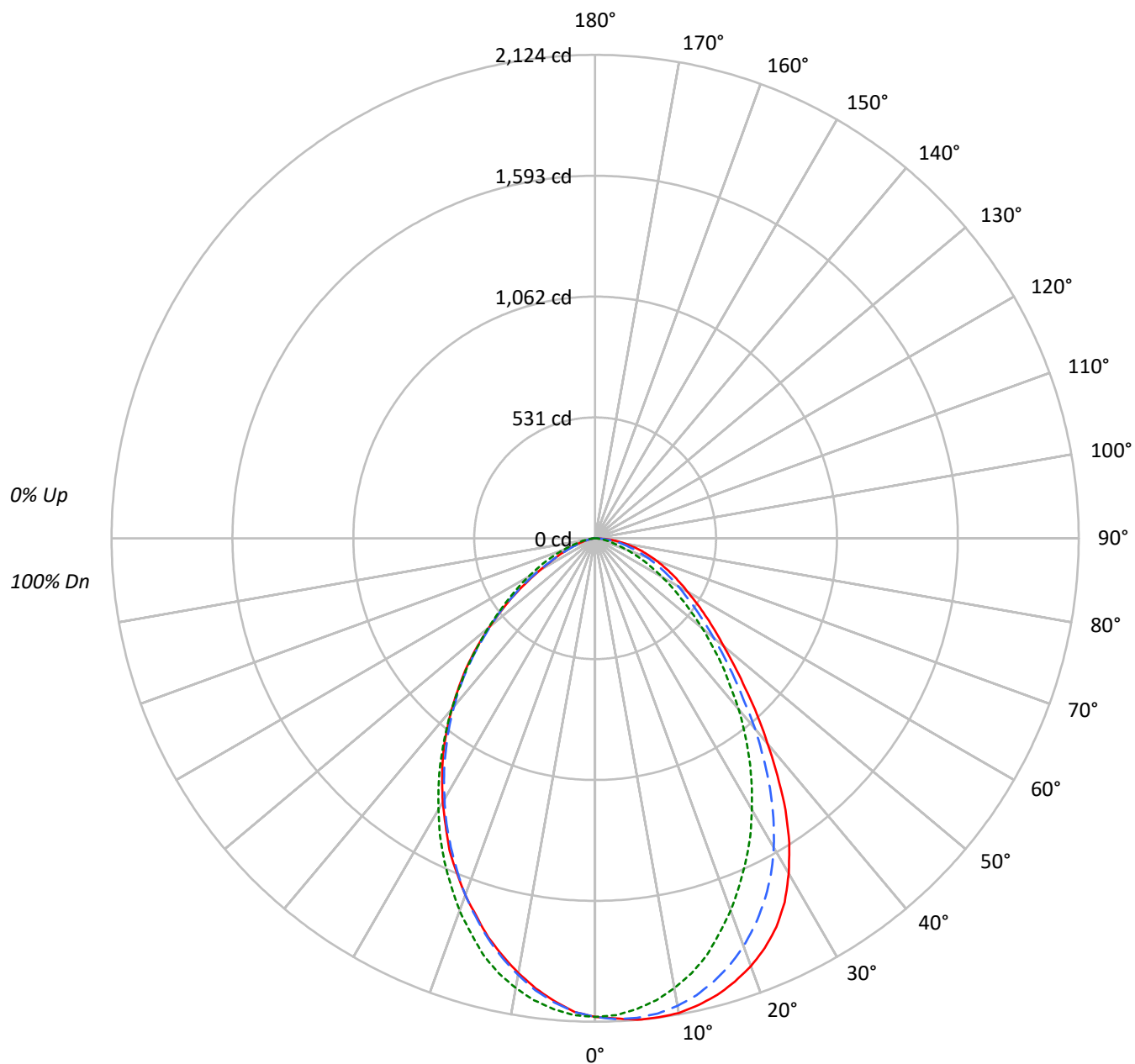
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88		
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77		
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67		
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59		
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39		
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35		
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	137208	137208	137208
5°	139074	136016	133717
10°	140291	132938	128493
15°	140278	128046	122521
20°	138918	120867	115798
25°	135627	112707	108921
30°	128067	103644	100781
35°	116089	93988	92825
40°	100257	83590	83335
45°	85972	72769	73304
50°	74711	62258	61375
55°	67109	52493	49171
60°	60987	44207	36209
65°	57272	36525	26598
70°	54612	28422	19495
75°	52279	20619	13259
80°	49368	14277	8792
85°	43715	8758	4342



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.7	5.3
10°-20°	538.8	14.5
20°-30°	748.0	20.1
30°-40°	774.8	20.8
40°-50°	636.7	17.1
50°-60°	437.6	11.7
60°-70°	251.5	6.7
70°-80°	115.6	3.1
80°-90°	28.2	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°	1483.6	39.8
0°-40°	2258.4	60.6
0°-60°	3332.6	89.4
0°-90°	3728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3728.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2103	2103	2103	2103	2103	
5°	2124	2115	2077	2048	2042	202
15°	2077	2016	1896	1820	1814	585
25°	1884	1758	1566	1498	1513	862
35°	1458	1338	1180	1145	1166	904
45°	932	862	789	780	794	726
55°	590	534	462	435	432	531
65°	371	324	237	166	172	369
75°	207	164	82	53	53	219
85°	58	41	12	6	6	66
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°	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1
2.5°	2111.9	2111.9	2117.7	2114.8	2120.7	2120.7	2120.7	2111.9	2117.7	2109.0	2114.8
5°	2123.6	2123.6	2126.5	2120.7	2126.5	2129.4	2120.7	2114.8	2123.6	2111.9	2114.8
7.5°	2123.6	2123.6	2126.5	2123.6	2126.5	2126.5	2123.6	2111.9	2117.7	2106.1	2106.1
10°	2117.7	2117.7	2117.7	2111.9	2114.8	2111.9	2111.9	2097.3	2100.2	2085.6	2085.6
12.5°	2100.2	2100.2	2100.2	2094.4	2094.4	2094.4	2085.6	2073.9	2076.9	2059.3	2056.4
15°	2076.9	2076.9	2073.9	2068.1	2068.1	2065.2	2059.3	2041.8	2041.8	2024.3	2015.5
17.5°	2041.8	2041.8	2041.8	2033.0	2030.1	2024.3	2018.4	2000.9	1995.1	1974.6	1965.9
20°	2000.9	2000.9	1998.0	1989.2	1983.4	1977.5	1965.9	1948.3	1942.5	1922.0	1907.4
22.5°	1948.3	1948.3	1942.5	1933.7	1927.9	1919.1	1907.4	1889.9	1881.1	1854.9	1837.3
25°	1884.1	1884.1	1875.3	1866.5	1854.9	1849.0	1840.3	1816.9	1808.1	1778.9	1758.5
27.5°	1802.3	1802.3	1790.6	1784.8	1770.1	1764.3	1752.6	1732.2	1720.5	1691.3	1670.8
30°	1700.0	1700.0	1694.2	1685.4	1673.8	1662.1	1653.3	1632.9	1615.3	1586.1	1568.6
32.5°	1586.1	1586.1	1583.2	1571.5	1551.1	1554.0	1539.4	1518.9	1504.3	1478.0	1457.6
35°	1457.6	1457.6	1448.8	1445.9	1434.2	1422.5	1407.9	1393.3	1384.6	1355.4	1337.8
37.5°	1314.5	1314.5	1314.5	1302.8	1296.9	1288.2	1279.4	1259.0	1253.1	1235.6	1212.2
40°	1177.2	1177.2	1177.2	1165.5	1156.7	1156.7	1145.0	1133.4	1118.8	1101.2	1092.5
42.5°	1054.5	1054.5	1045.7	1039.9	1028.2	1025.3	1022.4	1007.8	999.0	981.5	966.9
45°	931.8	931.8	928.9	926.0	917.2	911.4	905.5	893.8	890.9	873.4	861.7
47.5°	829.6	829.6	820.8	820.8	815.0	809.1	803.3	794.5	791.6	777.0	765.3
50°	736.1	736.1	736.1	733.2	724.4	721.5	715.7	709.8	704.0	689.4	677.7
52.5°	660.2	660.2	654.3	654.3	645.5	642.6	636.8	630.9	625.1	610.5	601.7
55°	590.0	590.0	587.1	584.2	575.4	572.5	569.6	563.8	555.0	543.3	534.5
57.5°	525.8	525.8	522.9	519.9	514.1	514.1	508.3	502.4	496.6	484.9	473.2
60°	467.4	467.4	467.4	464.4	458.6	458.6	455.7	446.9	444.0	429.4	420.6
62.5°	417.7	417.7	417.7	414.8	411.9	406.0	406.0	397.3	391.4	382.7	371.0
65°	371.0	371.0	371.0	368.1	362.2	359.3	356.4	350.5	344.7	335.9	324.2
67.5°	327.2	327.2	327.2	324.2	318.4	315.5	312.6	309.6	300.9	292.1	280.4
70°	286.3	286.3	283.3	280.4	277.5	274.6	271.7	265.8	260.0	248.3	239.5
72.5°	245.4	245.4	245.4	239.5	236.6	236.6	230.8	227.8	222.0	210.3	201.6
75°	207.4	207.4	204.5	201.6	198.6	195.7	192.8	189.9	181.1	175.3	163.6
77.5°	169.4	169.4	166.5	163.6	163.6	160.7	157.7	151.9	149.0	140.2	131.4
80°	131.4	131.4	131.4	131.4	128.5	125.6	125.6	119.8	116.8	108.1	102.2
82.5°	99.3	99.3	96.4	96.4	93.5	90.6	90.6	87.6	84.7	78.9	73.0
85°	58.4	58.4	55.5	55.5	52.6	52.6	49.7	49.7	46.7	40.9	40.9
87.5°	17.5	17.5	20.4	20.4	17.5	17.5	17.5	17.5	17.5	14.6	14.6
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°	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1
2.5°	2109.0	2117.7	2106.1	2103.1	2114.8	2109.0	2106.1	2100.2	2103.1	2097.3	2088.5
5°	2106.1	2117.7	2103.1	2094.4	2109.0	2100.2	2094.4	2088.5	2088.5	2076.9	2071.0
7.5°	2097.3	2103.1	2088.5	2079.8	2088.5	2079.8	2073.9	2065.2	2062.2	2047.6	2038.9
10°	2073.9	2079.8	2062.2	2050.6	2059.3	2047.6	2038.9	2030.1	2024.3	2006.7	1995.1
12.5°	2041.8	2044.7	2024.3	2009.7	2015.5	2006.7	1992.1	1980.5	1974.6	1957.1	1942.5
15°	1998.0	2000.9	1977.5	1957.1	1962.9	1951.3	1933.7	1922.0	1913.3	1895.8	1875.3
17.5°	1945.4	1942.5	1916.2	1895.8	1898.7	1884.1	1866.5	1849.0	1837.3	1816.9	1802.3
20°	1887.0	1878.2	1849.0	1825.6	1828.6	1811.0	1790.6	1773.1	1758.5	1740.9	1720.5
22.5°	1814.0	1802.3	1776.0	1746.8	1749.7	1735.1	1705.9	1691.3	1676.7	1653.3	1635.8
25°	1735.1	1717.6	1691.3	1662.1	1662.1	1644.5	1621.2	1603.6	1589.0	1565.7	1545.2
27.5°	1641.6	1632.9	1597.8	1574.4	1571.5	1554.0	1533.5	1513.1	1495.6	1475.1	1454.7
30°	1539.4	1524.8	1498.5	1472.2	1466.4	1451.8	1431.3	1407.9	1396.3	1375.8	1358.3
32.5°	1431.3	1416.7	1387.5	1361.2	1358.3	1346.6	1329.1	1305.7	1294.0	1279.4	1267.7
35°	1308.6	1302.8	1273.6	1253.1	1253.1	1241.4	1223.9	1203.5	1194.7	1180.1	1165.5
37.5°	1191.8	1183.0	1156.7	1139.2	1139.2	1124.6	1107.1	1098.3	1089.5	1077.9	1069.1
40°	1069.1	1063.3	1042.8	1025.3	1028.2	1016.5	1004.8	993.2	987.3	981.5	972.7
42.5°	955.2	949.3	934.7	920.1	920.1	911.4	899.7	890.9	885.1	876.3	873.4
45°	852.9	844.2	832.5	817.9	817.9	809.1	803.3	797.4	794.5	788.7	779.9
47.5°	753.6	747.8	736.1	721.5	721.5	721.5	709.8	701.0	701.0	695.2	692.3
50°	668.9	660.2	651.4	639.7	639.7	633.9	625.1	616.3	616.3	613.4	607.6
52.5°	590.0	584.2	572.5	560.8	560.8	555.0	546.2	543.3	540.4	531.6	528.7
55°	522.9	517.0	508.3	493.7	490.7	487.8	479.0	473.2	470.3	461.5	461.5
57.5°	461.5	455.7	441.1	432.3	429.4	423.5	414.8	408.9	406.0	400.2	394.3
60°	408.9	400.2	388.5	376.8	373.9	368.1	359.3	353.4	350.5	338.8	333.0
62.5°	359.3	350.5	338.8	327.2	324.2	318.4	306.7	300.9	295.0	283.3	277.5
65°	312.6	303.8	292.1	280.4	274.6	271.7	260.0	251.2	245.4	236.6	224.9
67.5°	268.7	260.0	248.3	233.7	233.7	224.9	216.2	207.4	198.6	189.9	181.1
70°	227.8	219.1	207.4	195.7	192.8	186.9	178.2	166.5	160.7	149.0	140.2
72.5°	189.9	181.1	169.4	157.7	154.8	149.0	140.2	128.5	119.8	111.0	102.2
75°	154.8	146.1	134.4	125.6	122.7	116.8	108.1	96.4	87.6	81.8	73.0
77.5°	122.7	113.9	105.2	96.4	93.5	87.6	78.9	73.0	64.3	58.4	49.7
80°	93.5	87.6	78.9	73.0	70.1	64.3	58.4	49.7	43.8	38.0	35.1
82.5°	67.2	61.3	55.5	46.7	46.7	40.9	38.0	32.1	26.3	23.4	20.4
85°	38.0	32.1	29.2	26.3	23.4	23.4	20.4	17.5	14.6	11.7	11.7
87.5°	11.7	11.7	8.8	8.8	8.8	8.8	5.8	5.8	5.8	5.8	5.8
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°	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1
2.5°	2088.5	2091.5	2085.6	2091.5	2085.6	2088.5	2082.7	2088.5	2082.7	2088.5	2076.9
5°	2068.1	2068.1	2059.3	2065.2	2059.3	2062.2	2050.6	2053.5	2047.6	2053.5	2041.8
7.5°	2033.0	2036.0	2021.4	2027.2	2018.4	2018.4	2009.7	2012.6	2003.8	2006.7	1998.0
10°	1992.1	1989.2	1974.6	1980.5	1968.8	1968.8	1960.0	1960.0	1948.3	1951.3	1939.6
12.5°	1933.7	1930.8	1913.3	1919.1	1907.4	1907.4	1898.7	1898.7	1887.0	1892.8	1881.1
15°	1866.5	1863.6	1846.1	1849.0	1837.3	1837.3	1825.6	1828.6	1819.8	1825.6	1814.0
17.5°	1790.6	1787.7	1770.1	1773.1	1758.5	1761.4	1752.6	1749.7	1743.9	1746.8	1738.0
20°	1711.7	1705.9	1688.4	1691.3	1685.4	1676.7	1670.8	1673.8	1667.9	1673.8	1665.0
22.5°	1629.9	1618.3	1603.6	1603.6	1597.8	1597.8	1589.0	1594.9	1583.2	1592.0	1586.1
25°	1536.5	1527.7	1516.0	1521.9	1510.2	1510.2	1501.4	1504.3	1498.5	1504.3	1498.5
27.5°	1445.9	1440.1	1422.5	1428.4	1419.6	1422.5	1413.8	1416.7	1413.8	1419.6	1413.8
30°	1349.5	1346.6	1334.9	1334.9	1332.0	1329.1	1326.1	1326.1	1323.2	1332.0	1326.1
32.5°	1259.0	1250.2	1238.5	1247.3	1232.7	1241.4	1235.6	1241.4	1235.6	1241.4	1238.5
35°	1165.5	1162.6	1148.0	1150.9	1148.0	1148.0	1145.0	1145.0	1145.0	1153.8	1153.8
37.5°	1066.2	1063.3	1054.5	1057.4	1051.6	1048.7	1048.7	1054.5	1054.5	1060.3	1060.3
40°	969.8	972.7	963.9	963.9	961.0	961.0	961.0	966.9	963.9	969.8	966.9
42.5°	873.4	873.4	864.6	867.5	864.6	867.5	867.5	873.4	873.4	876.3	873.4
45°	782.8	782.8	779.9	782.8	777.0	779.9	777.0	782.8	779.9	782.8	782.8
47.5°	692.3	692.3	692.3	689.4	689.4	689.4	689.4	689.4	686.4	692.3	689.4
50°	607.6	610.5	607.6	607.6	604.7	607.6	604.7	604.7	598.8	601.7	601.7
52.5°	531.6	531.6	525.8	525.8	525.8	522.9	522.9	522.9	519.9	519.9	514.1
55°	458.6	458.6	452.8	452.8	449.8	446.9	444.0	444.0	435.2	435.2	426.5
57.5°	391.4	388.5	379.7	379.7	373.9	371.0	368.1	365.1	359.3	353.4	350.5
60°	330.1	324.2	318.4	315.5	309.6	303.8	297.9	292.1	286.3	283.3	280.4
62.5°	271.7	262.9	257.1	254.1	248.3	239.5	233.7	227.8	222.0	219.1	213.2
65°	219.1	210.3	201.6	198.6	192.8	186.9	178.2	172.3	166.5	163.6	163.6
67.5°	172.3	163.6	151.9	151.9	146.1	140.2	134.4	128.5	125.6	128.5	128.5
70°	128.5	122.7	113.9	111.0	105.2	99.3	96.4	96.4	96.4	99.3	96.4
72.5°	96.4	87.6	81.8	78.9	75.9	73.0	73.0	73.0	70.1	73.0	73.0
75°	67.2	61.3	55.5	55.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6
77.5°	46.7	40.9	38.0	38.0	38.0	35.1	35.1	35.1	35.1	35.1	35.1
80°	29.2	29.2	26.3	26.3	23.4	23.4	23.4	23.4	23.4	23.4	23.4
82.5°	17.5	17.5	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
85°	8.8	8.8	8.8	8.8	8.8	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	2.9	2.9	2.9	2.9	2.9	5.8	5.8	5.8	5.8	5.8	5.8
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: P252511

CATALOG NUMBER: LD6B50D010TE EU6B30509027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1
2.5°	2076.9	2085.6	2073.9	2082.7	2079.8	2076.9	2071.0	2082.7
5°	2041.8	2044.7	2033.0	2044.7	2041.8	2036.0	2030.1	2041.8
7.5°	1992.1	2000.9	1986.3	1998.0	1995.1	1989.2	1983.4	1995.1
10°	1936.6	1945.4	1933.7	1942.5	1942.5	1936.6	1927.9	1939.6
12.5°	1875.3	1881.1	1869.5	1881.1	1878.2	1872.4	1869.5	1878.2
15°	1808.1	1816.9	1805.2	1814.0	1811.0	1808.1	1805.2	1814.0
17.5°	1735.1	1743.9	1735.1	1743.9	1743.9	1735.1	1732.2	1738.0
20°	1662.1	1667.9	1659.1	1667.9	1665.0	1665.0	1659.1	1667.9
22.5°	1580.3	1589.0	1583.2	1589.0	1586.1	1586.1	1583.2	1589.0
25°	1498.5	1507.3	1498.5	1507.3	1504.3	1504.3	1498.5	1513.1
27.5°	1416.7	1422.5	1413.8	1425.5	1422.5	1416.7	1419.6	1422.5
30°	1329.1	1334.9	1329.1	1337.8	1337.8	1337.8	1332.0	1337.8
32.5°	1241.4	1250.2	1241.4	1250.2	1247.3	1247.3	1244.4	1250.2
35°	1153.8	1156.7	1150.9	1159.7	1159.7	1162.6	1156.7	1165.5
37.5°	1063.3	1066.2	1063.3	1066.2	1072.0	1063.3	1069.1	1072.0
40°	969.8	975.6	972.7	975.6	975.6	978.5	975.6	978.5
42.5°	876.3	882.2	876.3	885.1	882.2	882.2	885.1	885.1
45°	779.9	788.7	782.8	788.7	791.6	788.7	788.7	794.5
47.5°	689.4	695.2	692.3	695.2	695.2	695.2	695.2	701.0
50°	598.8	601.7	601.7	604.7	604.7	607.6	601.7	604.7
52.5°	508.3	514.1	514.1	514.1	511.2	514.1	514.1	514.1
55°	426.5	429.4	423.5	429.4	429.4	426.5	426.5	432.3
57.5°	347.6	347.6	347.6	347.6	347.6	344.7	347.6	347.6
60°	274.6	277.5	274.6	274.6	274.6	274.6	271.7	277.5
62.5°	213.2	213.2	210.3	213.2	213.2	213.2	216.2	216.2
65°	166.5	169.4	166.5	169.4	169.4	169.4	169.4	172.3
67.5°	131.4	131.4	131.4	131.4	131.4	131.4	131.4	131.4
70°	99.3	99.3	99.3	102.2	99.3	99.3	99.3	102.2
72.5°	73.0	73.0	73.0	73.0	73.0	73.0	75.9	75.9
75°	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
77.5°	35.1	35.1	35.1	38.0	35.1	38.0	35.1	35.1
80°	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
82.5°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	5.8	5.8	5.8	5.8	2.9	2.9	2.9	2.9
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)