

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: P252413

Luminaire Tested: **LD6B50D010TE EU6B30509730 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252413
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: LD6B50D010TE EU6B30509730 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3608.0 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

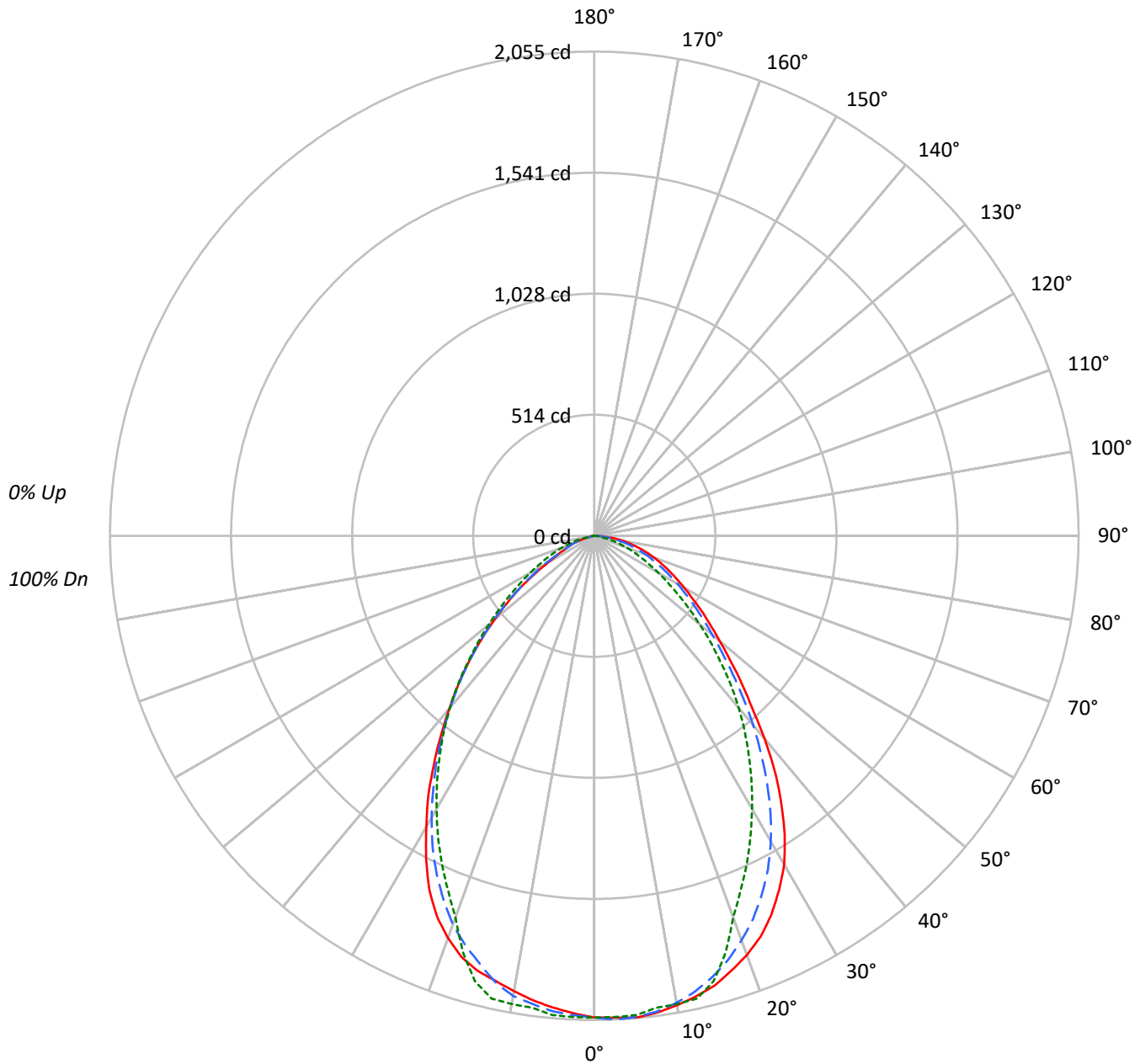
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	133371	133371	133371
5°	134405	133711	131621
10°	134024	133673	129977
15°	133416	132160	129113
20°	131426	119631	126081
25°	127860	110274	119258
30°	121407	100804	107403
35°	110164	91137	94522
40°	95649	81171	81401
45°	81571	69816	69078
50°	70601	59010	55782
55°	63116	49228	43188
60°	57503	40880	29097
65°	53691	33607	21720
70°	51159	27354	18236
75°	48196	19409	6024
80°	45874	9956	1991
85°	37727	5988	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.0	5.4
10°-20°	539.9	15.0
20°-30°	745.3	20.7
30°-40°	758.4	21.0
40°-50°	609.5	16.9
50°-60°	405.3	11.2
60°-70°	230.9	6.4
70°-80°	103.7	2.9
80°-90°	21.9	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°	1478.3	41.0
0°-40°	2236.7	62.0
0°-60°	3251.5	90.1
0°-90°	3608.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3608.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2044	2044	2044	2044	2044	
5°	2052	2050	2042	2026	2010	195
15°	1975	1938	1957	1880	1912	556
25°	1776	1681	1532	1582	1657	814
35°	1383	1277	1144	1166	1187	860
45°	884	831	757	749	749	686
55°	555	518	433	385	380	499
65°	348	311	218	141	141	346
75°	191	159	77	32	24	204
85°	50	34	8	3	0	60
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°	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3
2.5°	2047.0	2057.6	2054.9	2052.3	2054.9	2052.3	2047.0	2047.0	2041.7	2041.7	2054.9
5°	2052.3	2057.6	2054.9	2052.3	2052.3	2054.9	2044.3	2044.3	2039.0	2036.4	2049.6
7.5°	2041.7	2049.6	2044.3	2044.3	2041.7	2044.3	2033.7	2033.7	2025.7	2023.1	2036.4
10°	2023.1	2033.7	2028.4	2028.4	2028.4	2023.1	2017.8	2015.1	2007.2	2004.5	2012.5
12.5°	2001.8	2009.8	2007.2	2001.8	2001.8	2001.8	1991.2	1988.6	1977.9	1972.6	1980.6
15°	1975.3	1980.6	1977.9	1975.3	1970.0	1970.0	1959.4	1954.1	1943.4	1932.8	1938.1
17.5°	1935.5	1943.4	1938.1	1935.5	1927.5	1927.5	1916.9	1911.6	1895.6	1885.0	1887.7
20°	1893.0	1895.6	1893.0	1887.7	1879.7	1877.1	1866.4	1855.8	1842.5	1829.3	1826.6
22.5°	1842.5	1845.2	1837.2	1831.9	1824.0	1821.3	1808.0	1800.1	1778.8	1762.9	1760.2
25°	1776.2	1778.8	1778.8	1765.6	1760.2	1754.9	1741.7	1728.4	1709.8	1688.6	1680.6
27.5°	1696.5	1704.5	1699.2	1685.9	1675.3	1672.6	1659.4	1648.7	1624.8	1606.3	1595.6
30°	1611.6	1608.9	1606.3	1598.3	1582.4	1579.7	1566.4	1553.2	1534.6	1510.7	1497.4
32.5°	1502.7	1502.7	1500.1	1492.1	1476.2	1470.9	1460.2	1444.3	1423.1	1404.5	1391.2
35°	1383.2	1385.9	1383.2	1367.3	1356.7	1351.4	1346.1	1327.5	1308.9	1287.7	1277.0
37.5°	1258.5	1250.5	1253.1	1239.9	1226.6	1231.9	1216.0	1208.0	1186.8	1170.8	1160.2
40°	1123.1	1128.4	1117.7	1112.4	1104.5	1096.5	1096.5	1083.2	1072.6	1054.0	1048.7
42.5°	990.3	998.3	995.6	990.3	979.7	982.3	969.1	963.8	950.5	942.5	934.5
45°	884.1	884.1	884.1	878.8	876.1	870.8	862.9	854.9	846.9	836.3	831.0
47.5°	780.6	780.6	783.2	777.9	772.6	769.9	764.6	764.6	751.4	740.7	735.4
50°	695.6	695.6	695.6	690.3	685.0	685.0	679.7	674.4	666.4	658.4	653.1
52.5°	618.6	618.6	618.6	613.3	610.6	608.0	605.3	602.7	592.1	586.7	581.4
55°	554.9	552.2	552.2	549.6	544.3	544.3	541.6	536.3	528.3	520.4	517.7
57.5°	491.2	493.8	491.2	491.2	485.9	485.9	480.5	477.9	469.9	464.6	459.3
60°	440.7	440.7	440.7	438.1	432.8	435.4	430.1	427.4	419.5	411.5	406.2
62.5°	390.3	392.9	392.9	390.3	385.0	385.0	382.3	379.7	371.7	363.7	355.8
65°	347.8	347.8	347.8	345.1	342.5	342.5	339.8	337.2	329.2	318.6	310.6
67.5°	308.0	305.3	305.3	305.3	302.7	300.0	297.4	294.7	286.7	278.8	268.2
70°	268.2	268.2	268.2	265.5	260.2	262.8	260.2	257.5	249.6	241.6	233.6
72.5°	231.0	231.0	228.3	225.7	225.7	223.0	223.0	220.4	212.4	201.8	193.8
75°	191.2	191.2	191.2	191.2	185.8	188.5	183.2	180.5	175.2	167.3	159.3
77.5°	156.6	156.6	156.6	154.0	151.3	151.3	148.7	146.0	138.1	132.7	122.1
80°	122.1	122.1	122.1	122.1	119.5	116.8	114.2	111.5	106.2	98.2	90.3
82.5°	90.3	90.3	87.6	87.6	87.6	85.0	82.3	79.6	74.3	69.0	63.7
85°	50.4	53.1	53.1	47.8	50.4	47.8	47.8	42.5	42.5	37.2	34.5
87.5°	18.6	15.9	15.9	15.9	15.9	15.9	15.9	13.3	13.3	13.3	10.6
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°	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3
2.5°	2044.3	2041.7	2052.3	2052.3	2036.4	2044.3	2047.0	2041.7	2041.7	2044.3	2036.4
5°	2039.0	2033.7	2044.3	2047.0	2031.0	2039.0	2041.7	2036.4	2039.0	2041.7	2031.0
7.5°	2020.4	2020.4	2028.4	2031.0	2015.1	2023.1	2023.1	2017.8	2020.4	2020.4	2012.5
10°	2001.8	1993.9	2001.8	2001.8	1988.6	1991.2	1996.5	1993.9	2004.5	2017.8	2017.8
12.5°	1967.3	1959.4	1972.6	1972.6	1964.7	1975.3	1988.6	1996.5	2007.2	2012.5	1996.5
15°	1924.8	1927.5	1951.4	1970.0	1962.0	1977.9	1991.2	1985.9	1972.6	1956.7	1932.8
17.5°	1869.1	1861.1	1882.4	1893.0	1882.4	1887.7	1898.3	1887.7	1866.4	1853.2	1821.3
20°	1805.4	1784.1	1784.1	1778.8	1760.2	1760.2	1757.6	1739.0	1731.0	1723.1	1709.8
22.5°	1733.7	1709.8	1701.8	1685.9	1670.0	1667.3	1659.4	1640.8	1630.1	1624.8	1608.9
25°	1651.4	1630.1	1616.9	1600.9	1577.0	1571.7	1563.8	1545.2	1539.9	1531.9	1518.6
27.5°	1566.4	1539.9	1521.3	1505.4	1484.1	1481.5	1465.5	1452.3	1441.6	1436.3	1425.7
30°	1468.2	1439.0	1425.7	1404.5	1388.5	1383.2	1370.0	1351.4	1343.4	1338.1	1330.1
32.5°	1359.3	1335.4	1322.2	1303.6	1282.3	1285.0	1269.1	1253.1	1247.8	1242.5	1234.6
35°	1253.1	1229.2	1213.3	1197.4	1184.1	1178.8	1168.2	1154.9	1146.9	1144.3	1139.0
37.5°	1136.3	1117.7	1104.5	1088.5	1077.9	1072.6	1067.3	1054.0	1048.7	1048.7	1038.1
40°	1022.2	1006.2	995.6	987.6	974.4	971.7	966.4	958.4	955.8	953.1	945.2
42.5°	918.6	897.4	889.4	884.1	876.1	870.8	868.2	862.9	860.2	857.6	849.6
45°	820.4	801.8	793.8	788.5	780.6	777.9	775.2	767.3	762.0	756.7	754.0
47.5°	724.8	711.5	708.9	695.6	690.3	685.0	679.7	674.4	671.7	669.1	658.4
50°	642.5	634.5	621.3	613.3	608.0	605.3	594.7	586.7	584.1	581.4	573.5
52.5°	568.2	557.5	549.6	536.3	533.6	528.3	523.0	512.4	507.1	504.4	496.5
55°	501.8	493.8	483.2	472.6	464.6	462.0	454.0	443.4	438.1	432.8	427.4
57.5°	446.0	432.8	422.1	411.5	406.2	398.2	390.3	385.0	377.0	369.0	361.1
60°	392.9	382.3	369.0	358.4	353.1	347.8	337.2	329.2	321.3	313.3	305.3
62.5°	342.5	331.9	318.6	308.0	302.7	297.4	286.7	278.8	270.8	262.8	252.2
65°	297.4	286.7	276.1	265.5	260.2	254.9	244.3	233.6	225.7	217.7	207.1
67.5°	260.2	246.9	236.3	225.7	220.4	215.1	204.4	196.5	185.8	177.9	167.3
70°	220.4	209.7	201.8	191.2	185.8	180.5	169.9	159.3	151.3	143.4	132.7
72.5°	185.8	172.6	164.6	154.0	148.7	146.0	135.4	127.4	119.5	108.9	100.9
75°	148.7	138.1	127.4	119.5	114.2	111.5	100.9	92.9	85.0	77.0	69.0
77.5°	114.2	106.2	95.6	87.6	82.3	79.6	69.0	61.1	53.1	47.8	39.8
80°	85.0	74.3	69.0	61.1	58.4	53.1	47.8	39.8	34.5	26.5	21.2
82.5°	58.4	50.4	45.1	39.8	37.2	34.5	29.2	23.9	18.6	15.9	13.3
85°	31.9	26.5	23.9	21.2	18.6	18.6	15.9	13.3	10.6	8.0	5.3
87.5°	10.6	8.0	8.0	8.0	8.0	5.3	5.3	5.3	2.7	2.7	2.7
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°	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3
2.5°	2041.7	2041.7	2041.7	2039.0	2039.0	2039.0	2036.4	2047.0	2036.4	2033.7	2041.7
5°	2039.0	2033.7	2033.7	2033.7	2033.7	2031.0	2028.4	2033.7	2025.7	2023.1	2023.1
7.5°	2023.1	2020.4	2020.4	2017.8	2015.1	2012.5	2009.8	2012.5	2004.5	2001.8	2001.8
10°	2025.7	2020.4	2020.4	2012.5	2007.2	1999.2	1991.2	1993.9	1983.3	1975.3	1975.3
12.5°	1993.9	1980.6	1972.6	1964.7	1959.4	1956.7	1946.1	1951.4	1940.8	1938.1	1938.1
15°	1922.2	1906.3	1893.0	1887.7	1887.7	1882.4	1874.4	1885.0	1879.7	1882.4	1895.6
17.5°	1810.7	1802.7	1794.8	1792.1	1794.8	1800.1	1805.4	1821.3	1821.3	1829.3	1842.5
20°	1712.5	1707.1	1712.5	1712.5	1715.1	1725.7	1736.3	1749.6	1754.9	1762.9	1781.5
22.5°	1616.9	1616.9	1622.2	1630.1	1627.5	1646.1	1648.7	1672.6	1672.6	1688.6	1704.5
25°	1523.9	1523.9	1529.3	1531.9	1537.2	1547.8	1558.5	1577.0	1582.4	1598.3	1611.6
27.5°	1433.7	1431.0	1431.0	1433.7	1439.0	1452.3	1457.6	1478.8	1486.8	1497.4	1510.7
30°	1332.8	1330.1	1335.4	1340.8	1338.1	1351.4	1359.3	1375.3	1380.6	1391.2	1401.8
32.5°	1237.2	1237.2	1237.2	1242.5	1242.5	1253.1	1253.1	1271.7	1271.7	1279.7	1290.3
35°	1139.0	1139.0	1141.6	1144.3	1146.9	1149.6	1152.3	1162.9	1165.5	1168.2	1173.5
37.5°	1046.1	1043.4	1046.1	1046.1	1040.7	1051.4	1051.4	1062.0	1054.0	1062.0	1064.6
40°	950.5	950.5	947.8	947.8	947.8	953.1	947.8	955.8	950.5	955.8	953.1
42.5°	852.2	852.2	846.9	852.2	849.6	849.6	849.6	854.9	846.9	852.2	854.9
45°	754.0	751.4	751.4	748.7	748.7	748.7	751.4	751.4	748.7	754.0	754.0
47.5°	658.4	655.8	655.8	655.8	655.8	658.4	650.5	655.8	650.5	650.5	650.5
50°	576.1	573.5	570.8	568.2	565.5	565.5	562.9	562.9	557.5	554.9	552.2
52.5°	496.5	493.8	488.5	488.5	485.9	483.2	475.2	475.2	467.3	464.6	464.6
55°	424.8	416.8	414.2	408.9	408.9	403.6	398.2	392.9	385.0	379.7	379.7
57.5°	358.4	350.5	345.1	342.5	339.8	334.5	323.9	321.3	310.6	308.0	305.3
60°	300.0	292.0	284.1	278.8	276.1	268.2	257.5	252.2	246.9	238.9	231.0
62.5°	244.3	236.3	225.7	223.0	217.7	209.7	201.8	193.8	188.5	180.5	175.2
65°	196.5	188.5	180.5	175.2	169.9	162.0	154.0	146.0	140.7	138.1	135.4
67.5°	159.3	148.7	140.7	138.1	132.7	127.4	119.5	116.8	111.5	111.5	111.5
70°	124.8	116.8	108.9	106.2	103.5	98.2	92.9	92.9	92.9	92.9	92.9
72.5°	92.9	87.6	79.6	77.0	74.3	71.7	66.4	69.0	66.4	66.4	66.4
75°	58.4	53.1	47.8	45.1	42.5	39.8	37.2	34.5	31.9	29.2	29.2
77.5°	31.9	26.5	23.9	21.2	21.2	18.6	15.9	15.9	13.3	13.3	13.3
80°	18.6	15.9	13.3	10.6	10.6	8.0	8.0	8.0	8.0	5.3	5.3
82.5°	10.6	8.0	5.3	5.3	5.3	5.3	2.7	2.7	2.7	2.7	2.7
85°	5.3	5.3	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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: P252413

CATALOG NUMBER: LD6B50D010TE EU6B30509730 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3
2.5°	2028.4	2036.4	2028.4	2036.4	2036.4	2036.4	2036.4	2028.4
5°	2015.1	2020.4	2012.5	2017.8	2020.4	2017.8	2017.8	2009.8
7.5°	1991.2	1996.5	1988.6	1996.5	1999.2	1996.5	1993.9	1988.6
10°	1967.3	1970.0	1962.0	1967.3	1972.6	1972.6	1970.0	1962.0
12.5°	1930.2	1938.1	1930.2	1935.5	1940.8	1943.4	1943.4	1935.5
15°	1887.7	1901.0	1895.6	1903.6	1911.6	1914.2	1914.2	1911.6
17.5°	1845.2	1858.5	1850.5	1863.8	1871.8	1877.1	1879.7	1874.4
20°	1784.1	1800.1	1794.8	1805.4	1816.0	1824.0	1824.0	1816.0
22.5°	1704.5	1725.7	1723.1	1731.0	1744.3	1747.0	1752.3	1747.0
25°	1616.9	1632.8	1630.1	1638.1	1654.0	1654.0	1656.7	1656.7
27.5°	1516.0	1531.9	1529.3	1534.6	1545.2	1547.8	1550.5	1545.2
30°	1407.1	1415.1	1415.1	1423.1	1431.0	1433.7	1433.7	1425.7
32.5°	1287.7	1298.3	1303.6	1300.9	1308.9	1314.2	1311.6	1311.6
35°	1178.8	1181.5	1184.1	1186.8	1189.4	1194.7	1189.4	1186.8
37.5°	1062.0	1070.0	1064.6	1070.0	1075.3	1072.6	1070.0	1070.0
40°	955.8	958.4	953.1	958.4	961.1	961.1	961.1	955.8
42.5°	849.6	854.9	849.6	854.9	854.9	854.9	854.9	852.2
45°	743.4	748.7	748.7	751.4	751.4	748.7	748.7	748.7
47.5°	645.2	650.5	645.2	650.5	653.1	647.8	647.8	647.8
50°	552.2	549.6	549.6	552.2	552.2	552.2	552.2	549.6
52.5°	456.7	459.3	459.3	459.3	462.0	459.3	462.0	462.0
55°	374.4	374.4	374.4	377.0	374.4	374.4	377.0	379.7
57.5°	300.0	297.4	294.7	294.7	297.4	294.7	294.7	294.7
60°	231.0	228.3	225.7	225.7	225.7	225.7	225.7	223.0
62.5°	172.6	172.6	172.6	175.2	175.2	175.2	175.2	177.9
65°	138.1	138.1	138.1	138.1	138.1	138.1	138.1	140.7
67.5°	111.5	111.5	111.5	114.2	114.2	114.2	114.2	114.2
70°	92.9	92.9	95.6	92.9	95.6	95.6	95.6	95.6
72.5°	63.7	63.7	63.7	63.7	63.7	61.1	63.7	61.1
75°	26.5	26.5	26.5	26.5	26.5	26.5	26.5	23.9
77.5°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
80°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
82.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	2.7	2.7	2.7	2.7	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)