

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: P252510

Luminaire Tested: **LD6B50D010TE EU6B30509024 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252510
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 EU6B30509024 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3279.0 lumens
Efficiency: N/A
Efficacy: 55.8 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

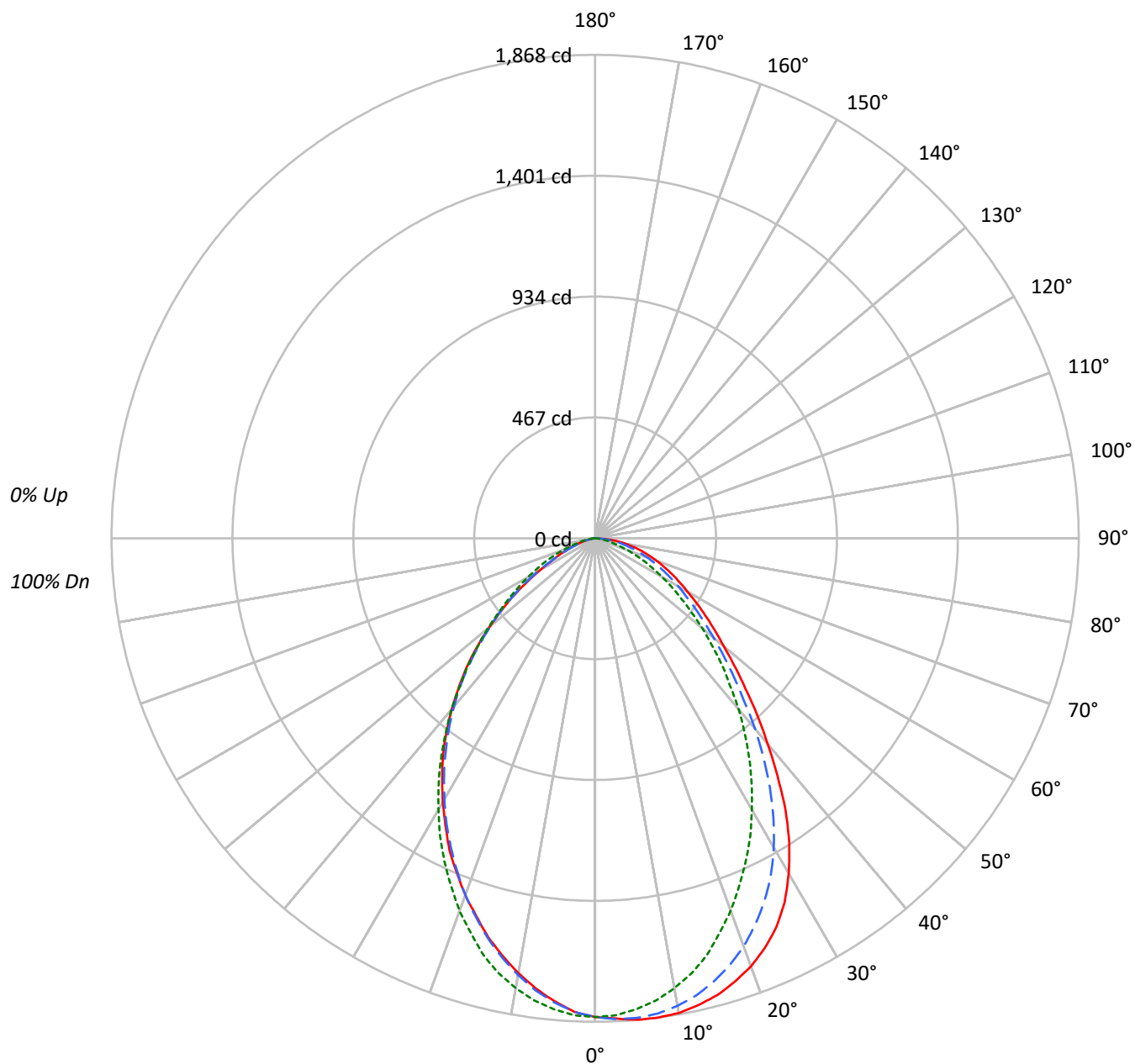
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	120682	120682	120682
5°	122322	119630	117613
10°	123398	116933	113017
15°	123379	112620	107763
20°	122186	106315	101850
25°	119286	99131	95805
30°	112646	91161	88645
35°	102104	82671	81643
40°	88180	73523	73302
45°	75620	64004	64474
50°	65709	54757	53976
55°	59033	46169	43245
60°	53641	38883	31850
65°	50372	32125	23403
70°	48031	24988	17148
75°	45978	18124	11646
80°	43432	12549	7740
85°	38476	7710	3818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.0	5.3
10°-20°	473.9	14.5
20°-30°	657.9	20.1
30°-40°	681.5	20.8
40°-50°	560.0	17.1
50°-60°	384.9	11.7
60°-70°	221.3	6.7
70°-80°	101.7	3.1
80°-90°	24.8	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°	1304.9	39.8
0°-40°	1986.4	60.6
0°-60°	2931.3	89.4
0°-90°	3279.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3279.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1850	1850	1850	1850	1850	
5°	1868	1860	1827	1801	1796	178
15°	1827	1773	1667	1601	1596	515
25°	1657	1547	1377	1318	1331	758
35°	1282	1177	1038	1007	1025	795
45°	820	758	694	686	699	638
55°	519	470	406	383	380	467
65°	326	285	208	146	152	325
75°	182	144	72	46	46	193
85°	51	36	10	5	5	58
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°	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8
2.5°	1857.5	1873.0	1862.7	1860.1	1865.3	1865.3	1865.3	1857.5	1862.7	1855.0	1860.1
5°	1867.8	1880.7	1870.4	1865.3	1870.4	1873.0	1865.3	1860.1	1867.8	1857.5	1860.1
7.5°	1867.8	1880.7	1870.4	1867.8	1870.4	1870.4	1867.8	1857.5	1862.7	1852.4	1852.4
10°	1862.7	1873.0	1862.7	1857.5	1860.1	1857.5	1857.5	1844.7	1847.3	1834.4	1834.4
12.5°	1847.3	1860.1	1847.3	1842.1	1842.1	1842.1	1834.4	1824.1	1826.7	1811.3	1808.7
15°	1826.7	1837.0	1824.1	1819.0	1819.0	1816.4	1811.3	1795.9	1795.9	1780.5	1772.8
17.5°	1795.9	1806.2	1795.9	1788.2	1785.6	1780.5	1775.3	1759.9	1754.8	1736.8	1729.1
20°	1759.9	1767.6	1757.3	1749.6	1744.5	1739.4	1729.1	1713.7	1708.5	1690.5	1677.7
22.5°	1713.7	1723.9	1708.5	1700.8	1695.7	1688.0	1677.7	1662.3	1654.6	1631.5	1616.0
25°	1657.1	1662.3	1649.4	1641.7	1631.5	1626.3	1618.6	1598.1	1590.3	1564.7	1546.7
27.5°	1585.2	1590.3	1574.9	1569.8	1556.9	1551.8	1541.5	1523.5	1513.3	1487.6	1469.6
30°	1495.3	1500.4	1490.2	1482.4	1472.2	1461.9	1454.2	1436.2	1420.8	1395.1	1379.7
32.5°	1395.1	1402.8	1392.5	1382.2	1364.3	1366.8	1354.0	1336.0	1323.2	1300.0	1282.0
35°	1282.0	1287.2	1274.3	1271.8	1261.5	1251.2	1238.4	1225.5	1217.8	1192.1	1176.7
37.5°	1156.2	1169.0	1156.2	1145.9	1140.7	1133.0	1125.3	1107.3	1102.2	1086.8	1066.2
40°	1035.4	1043.1	1035.4	1025.1	1017.4	1017.4	1007.1	996.9	984.0	968.6	960.9
42.5°	927.5	922.4	919.8	914.6	904.4	901.8	899.2	886.4	878.7	863.3	850.4
45°	819.6	822.2	817.0	814.4	806.7	801.6	796.5	786.2	783.6	768.2	757.9
47.5°	729.7	727.1	722.0	722.0	716.8	711.7	706.5	698.8	696.3	683.4	673.1
50°	647.4	650.0	647.4	644.9	637.2	634.6	629.5	624.3	619.2	606.3	596.1
52.5°	580.6	578.1	575.5	575.5	567.8	565.2	560.1	555.0	549.8	537.0	529.3
55°	519.0	519.0	516.4	513.8	506.1	503.6	501.0	495.9	488.2	477.9	470.2
57.5°	462.5	462.5	459.9	457.3	452.2	452.2	447.0	441.9	436.8	426.5	416.2
60°	411.1	413.6	411.1	408.5	403.4	403.4	400.8	393.1	390.5	377.7	370.0
62.5°	367.4	367.4	367.4	364.8	362.3	357.1	357.1	349.4	344.3	336.6	326.3
65°	326.3	326.3	326.3	323.7	318.6	316.0	313.4	308.3	303.2	295.5	285.2
67.5°	287.8	287.8	287.8	285.2	280.0	277.5	274.9	272.3	264.6	256.9	246.6
70°	251.8	251.8	249.2	246.6	244.1	241.5	238.9	233.8	228.7	218.4	210.7
72.5°	215.8	215.8	215.8	210.7	208.1	208.1	203.0	200.4	195.3	185.0	177.3
75°	182.4	179.8	179.8	177.3	174.7	172.1	169.6	167.0	159.3	154.2	143.9
77.5°	149.0	149.0	146.4	143.9	143.9	141.3	138.7	133.6	131.0	123.3	115.6
80°	115.6	115.6	115.6	115.6	113.0	110.5	110.5	105.3	102.8	95.1	89.9
82.5°	87.4	84.8	84.8	84.8	82.2	79.6	79.6	77.1	74.5	69.4	64.2
85°	51.4	48.8	48.8	48.8	46.2	46.2	43.7	43.7	41.1	36.0	36.0
87.5°	15.4	15.4	18.0	18.0	15.4	15.4	15.4	15.4	15.4	12.8	12.8
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8
2.5°	1855.0	1862.7	1852.4	1849.8	1860.1	1855.0	1852.4	1847.3	1849.8	1844.7	1837.0
5°	1852.4	1862.7	1849.8	1842.1	1855.0	1847.3	1842.1	1837.0	1837.0	1826.7	1821.6
7.5°	1844.7	1849.8	1837.0	1829.3	1837.0	1829.3	1824.1	1816.4	1813.9	1801.0	1793.3
10°	1824.1	1829.3	1813.9	1803.6	1811.3	1801.0	1793.3	1785.6	1780.5	1765.1	1754.8
12.5°	1795.9	1798.5	1780.5	1767.6	1772.8	1765.1	1752.2	1741.9	1736.8	1721.4	1708.5
15°	1757.3	1759.9	1739.4	1721.4	1726.5	1716.2	1700.8	1690.5	1682.8	1667.4	1649.4
17.5°	1711.1	1708.5	1685.4	1667.4	1670.0	1657.1	1641.7	1626.3	1616.0	1598.1	1585.2
20°	1659.7	1652.0	1626.3	1605.8	1608.3	1592.9	1574.9	1559.5	1546.7	1531.3	1513.3
22.5°	1595.5	1585.2	1562.1	1536.4	1539.0	1526.1	1500.4	1487.6	1474.7	1454.2	1438.8
25°	1526.1	1510.7	1487.6	1461.9	1461.9	1446.5	1425.9	1410.5	1397.7	1377.1	1359.1
27.5°	1443.9	1436.2	1405.4	1384.8	1382.2	1366.8	1348.8	1330.9	1315.4	1297.5	1279.5
30°	1354.0	1341.1	1318.0	1294.9	1289.8	1276.9	1258.9	1238.4	1228.1	1210.1	1194.7
32.5°	1258.9	1246.1	1220.4	1197.3	1194.7	1184.4	1169.0	1148.4	1138.2	1125.3	1115.0
35°	1151.0	1145.9	1120.2	1102.2	1102.2	1091.9	1076.5	1058.5	1050.8	1038.0	1025.1
37.5°	1048.2	1040.5	1017.4	1002.0	1002.0	989.2	973.7	966.0	958.3	948.0	940.3
40°	940.3	935.2	917.2	901.8	904.4	894.1	883.8	873.5	868.4	863.3	855.6
42.5°	840.1	835.0	822.2	809.3	809.3	801.6	791.3	783.6	778.5	770.8	768.2
45°	750.2	742.5	732.2	719.4	719.4	711.7	706.5	701.4	698.8	693.7	686.0
47.5°	662.9	657.7	647.4	634.6	634.6	634.6	624.3	616.6	616.6	611.5	608.9
50°	588.4	580.6	572.9	562.7	562.7	557.5	549.8	542.1	542.1	539.5	534.4
52.5°	519.0	513.8	503.6	493.3	493.3	488.2	480.4	477.9	475.3	467.6	465.0
55°	459.9	454.8	447.0	434.2	431.6	429.1	421.4	416.2	413.6	405.9	405.9
57.5°	405.9	400.8	388.0	380.2	377.7	372.5	364.8	359.7	357.1	352.0	346.8
60°	359.7	352.0	341.7	331.4	328.9	323.7	316.0	310.9	308.3	298.0	292.9
62.5°	316.0	308.3	298.0	287.8	285.2	280.0	269.8	264.6	259.5	249.2	244.1
65°	274.9	267.2	256.9	246.6	241.5	238.9	228.7	221.0	215.8	208.1	197.8
67.5°	236.4	228.7	218.4	205.5	205.5	197.8	190.1	182.4	174.7	167.0	159.3
70°	200.4	192.7	182.4	172.1	169.6	164.4	156.7	146.4	141.3	131.0	123.3
72.5°	167.0	159.3	149.0	138.7	136.2	131.0	123.3	113.0	105.3	97.6	89.9
75°	136.2	128.5	118.2	110.5	107.9	102.8	95.1	84.8	77.1	71.9	64.2
77.5°	107.9	100.2	92.5	84.8	82.2	77.1	69.4	64.2	56.5	51.4	43.7
80°	82.2	77.1	69.4	64.2	61.7	56.5	51.4	43.7	38.5	33.4	30.8
82.5°	59.1	54.0	48.8	41.1	41.1	36.0	33.4	28.3	23.1	20.6	18.0
85°	33.4	28.3	25.7	23.1	20.6	20.6	18.0	15.4	12.8	10.3	10.3
87.5°	10.3	10.3	7.7	7.7	7.7	7.7	5.1	5.1	5.1	5.1	5.1
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°	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8
2.5°	1837.0	1839.6	1834.4	1839.6	1834.4	1837.0	1831.9	1837.0	1831.9	1837.0	1826.7
5°	1819.0	1819.0	1811.3	1816.4	1811.3	1813.9	1803.6	1806.2	1801.0	1806.2	1795.9
7.5°	1788.2	1790.7	1777.9	1783.0	1775.3	1775.3	1767.6	1770.2	1762.5	1765.1	1757.3
10°	1752.2	1749.6	1736.8	1741.9	1731.7	1731.7	1723.9	1723.9	1713.7	1716.2	1706.0
12.5°	1700.8	1698.3	1682.8	1688.0	1677.7	1677.7	1670.0	1670.0	1659.7	1664.9	1654.6
15°	1641.7	1639.2	1623.7	1626.3	1616.0	1616.0	1605.8	1608.3	1600.6	1605.8	1595.5
17.5°	1574.9	1572.4	1556.9	1559.5	1546.7	1549.2	1541.5	1539.0	1533.8	1536.4	1528.7
20°	1505.6	1500.4	1485.0	1487.6	1482.4	1474.7	1469.6	1472.2	1467.0	1472.2	1464.5
22.5°	1433.6	1423.4	1410.5	1410.5	1405.4	1405.4	1397.7	1402.8	1392.5	1400.2	1395.1
25°	1351.4	1343.7	1333.4	1338.6	1328.3	1328.3	1320.6	1323.2	1318.0	1323.2	1318.0
27.5°	1271.8	1266.6	1251.2	1256.4	1248.6	1251.2	1243.5	1246.1	1243.5	1248.6	1243.5
30°	1187.0	1184.4	1174.1	1174.1	1171.6	1169.0	1166.4	1166.4	1163.9	1171.6	1166.4
32.5°	1107.3	1099.6	1089.4	1097.1	1084.2	1091.9	1086.8	1091.9	1086.8	1091.9	1089.4
35°	1025.1	1022.6	1009.7	1012.3	1009.7	1009.7	1007.1	1007.1	1007.1	1014.8	1014.8
37.5°	937.8	935.2	927.5	930.1	924.9	922.4	922.4	927.5	927.5	932.6	932.6
40°	853.0	855.6	847.8	847.8	845.3	845.3	845.3	850.4	847.8	853.0	850.4
42.5°	768.2	768.2	760.5	763.1	760.5	763.1	763.1	768.2	768.2	770.8	768.2
45°	688.6	688.6	686.0	688.6	683.4	686.0	683.4	688.6	686.0	688.6	688.6
47.5°	608.9	608.9	608.9	606.3	606.3	606.3	606.3	606.3	603.8	608.9	606.3
50°	534.4	537.0	534.4	534.4	531.8	534.4	531.8	531.8	526.7	529.3	529.3
52.5°	467.6	467.6	462.5	462.5	462.5	459.9	459.9	459.9	457.3	457.3	452.2
55°	403.4	403.4	398.2	398.2	395.7	393.1	390.5	390.5	382.8	382.8	375.1
57.5°	344.3	341.7	334.0	334.0	328.9	326.3	323.7	321.2	316.0	310.9	308.3
60°	290.3	285.2	280.0	277.5	272.3	267.2	262.1	256.9	251.8	249.2	246.6
62.5°	238.9	231.2	226.1	223.5	218.4	210.7	205.5	200.4	195.3	192.7	187.6
65°	192.7	185.0	177.3	174.7	169.6	164.4	156.7	151.6	146.4	143.9	143.9
67.5°	151.6	143.9	133.6	133.6	128.5	123.3	118.2	113.0	110.5	113.0	113.0
70°	113.0	107.9	100.2	97.6	92.5	87.4	84.8	84.8	84.8	87.4	84.8
72.5°	84.8	77.1	71.9	69.4	66.8	64.2	64.2	64.2	61.7	64.2	64.2
75°	59.1	54.0	48.8	48.8	46.2	46.2	46.2	46.2	46.2	46.2	46.2
77.5°	41.1	36.0	33.4	33.4	33.4	30.8	30.8	30.8	30.8	30.8	30.8
80°	25.7	25.7	23.1	23.1	20.6	20.6	20.6	20.6	20.6	20.6	20.6
82.5°	15.4	15.4	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
85°	7.7	7.7	7.7	7.7	7.7	5.1	5.1	5.1	5.1	5.1	5.1
87.5°	2.6	2.6	2.6	2.6	2.6	5.1	5.1	5.1	5.1	5.1	5.1
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: P252510

CATALOG NUMBER: LD6B50D010TE EU6B30509024 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8	1849.8
2.5°	1826.7	1834.4	1824.1	1831.9	1829.3	1826.7	1821.6	1831.9
5°	1795.9	1798.5	1788.2	1798.5	1795.9	1790.7	1785.6	1795.9
7.5°	1752.2	1759.9	1747.1	1757.3	1754.8	1749.6	1744.5	1754.8
10°	1703.4	1711.1	1700.8	1708.5	1708.5	1703.4	1695.7	1706.0
12.5°	1649.4	1654.6	1644.3	1654.6	1652.0	1646.9	1644.3	1652.0
15°	1590.3	1598.1	1587.8	1595.5	1592.9	1590.3	1587.8	1595.5
17.5°	1526.1	1533.8	1526.1	1533.8	1533.8	1526.1	1523.5	1528.7
20°	1461.9	1467.0	1459.3	1467.0	1464.5	1464.5	1459.3	1467.0
22.5°	1390.0	1397.7	1392.5	1397.7	1395.1	1395.1	1392.5	1397.7
25°	1318.0	1325.7	1318.0	1325.7	1323.2	1323.2	1318.0	1330.9
27.5°	1246.1	1251.2	1243.5	1253.8	1251.2	1246.1	1248.6	1251.2
30°	1169.0	1174.1	1169.0	1176.7	1176.7	1176.7	1171.6	1176.7
32.5°	1091.9	1099.6	1091.9	1099.6	1097.1	1097.1	1094.5	1099.6
35°	1014.8	1017.4	1012.3	1020.0	1020.0	1022.6	1017.4	1025.1
37.5°	935.2	937.8	935.2	937.8	942.9	935.2	940.3	942.9
40°	853.0	858.1	855.6	858.1	858.1	860.7	858.1	860.7
42.5°	770.8	775.9	770.8	778.5	775.9	775.9	778.5	778.5
45°	686.0	693.7	688.6	693.7	696.3	693.7	693.7	698.8
47.5°	606.3	611.5	608.9	611.5	611.5	611.5	611.5	616.6
50°	526.7	529.3	529.3	531.8	531.8	534.4	529.3	531.8
52.5°	447.0	452.2	452.2	452.2	449.6	452.2	452.2	452.2
55°	375.1	377.7	372.5	377.7	377.7	375.1	375.1	380.2
57.5°	305.7	305.7	305.7	305.7	305.7	303.2	305.7	305.7
60°	241.5	244.1	241.5	241.5	241.5	241.5	238.9	244.1
62.5°	187.6	187.6	185.0	187.6	187.6	187.6	190.1	190.1
65°	146.4	149.0	146.4	149.0	149.0	149.0	149.0	151.6
67.5°	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6
70°	87.4	87.4	87.4	89.9	87.4	87.4	87.4	89.9
72.5°	64.2	64.2	64.2	64.2	64.2	64.2	66.8	66.8
75°	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
77.5°	30.8	30.8	30.8	33.4	30.8	33.4	30.8	30.8
80°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
82.5°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
85°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
87.5°	5.1	5.1	5.1	5.1	2.6	2.6	2.6	2.6
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)