

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: P252419

Luminaire Tested: **LD6B60D010TE EU6B60709024 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252419
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: LD6B60D010TE EU6B60709024 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3902.0 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

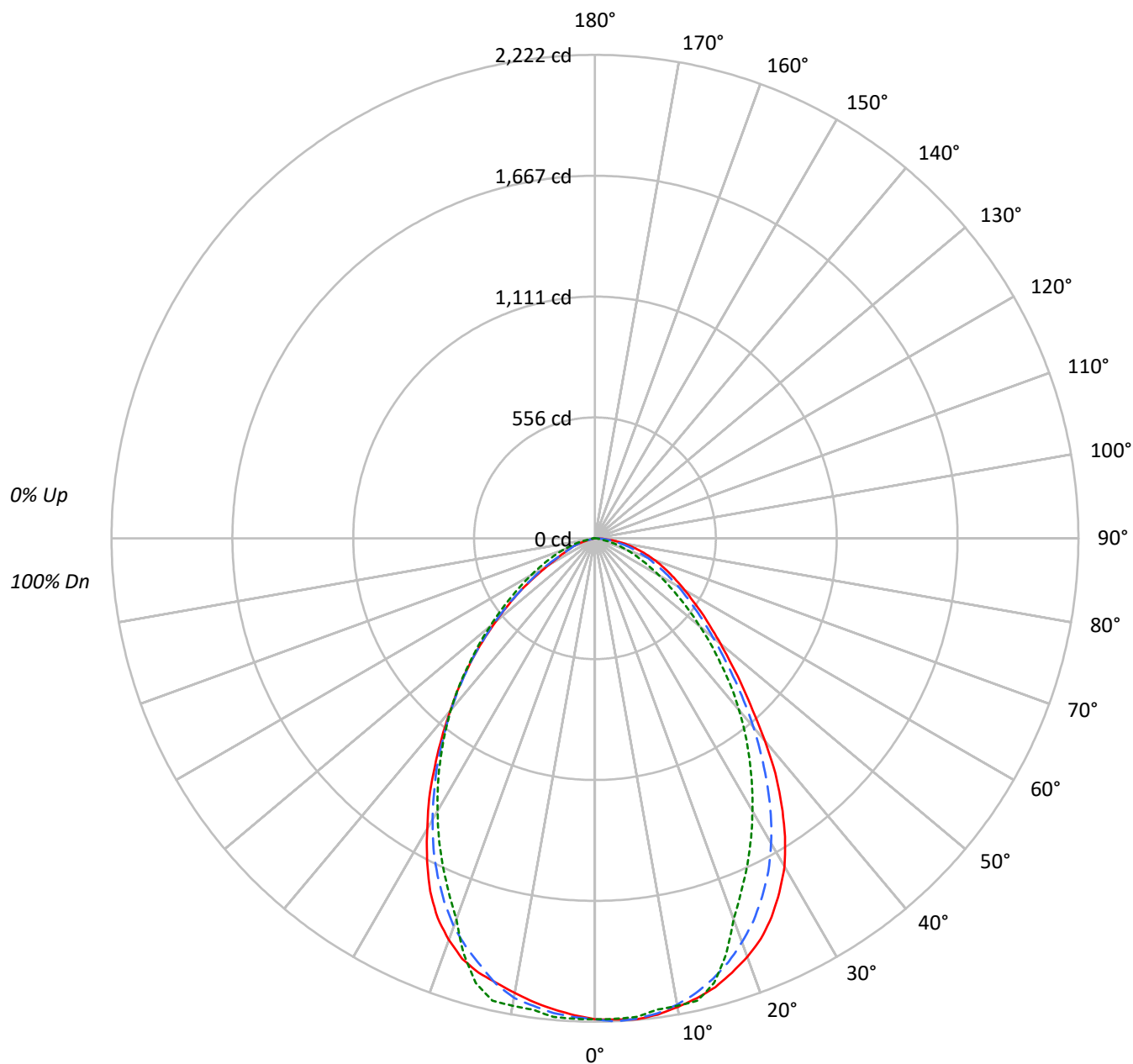
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	144241	144241	144241
5°	145355	144602	142349
10°	144942	144564	140570
15°	144290	142933	139630
20°	142132	129378	136356
25°	138276	119258	128976
30°	131299	109015	116157
35°	119148	98560	102223
40°	103442	87789	88036
45°	88214	75500	74706
50°	76356	63821	60329
55°	68258	53232	46703
60°	62187	44207	31472
65°	58059	36339	23495
70°	55318	29585	19724
75°	52103	20997	6503
80°	49631	10783	2142
85°	40871	6438	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.8	5.4
10°-20°	583.9	15.0
20°-30°	806.0	20.7
30°-40°	820.2	21.0
40°-50°	659.2	16.9
50°-60°	438.3	11.2
60°-70°	249.8	6.4
70°-80°	112.2	2.9
80°-90°	23.6	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°	1598.7	41.0
0°-40°	2418.9	62.0
0°-60°	3516.4	90.1
0°-90°	3902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3902.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2211	2211	2211	2211	2211	
5°	2220	2217	2208	2191	2174	211
15°	2136	2096	2116	2033	2067	601
25°	1921	1818	1657	1711	1792	880
35°	1496	1381	1238	1260	1284	930
45°	956	899	818	810	810	741
55°	600	560	468	416	411	539
65°	376	336	235	152	152	375
75°	207	172	83	34	26	221
85°	55	37	9	3	0	65
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°	2210.9	2210.9	2210.9	2210.9	2210.9	2210.9	2210.9	2210.9	2210.9	2210.9	2210.9
2.5°	2213.8	2225.3	2222.4	2219.5	2222.4	2219.5	2213.8	2213.8	2208.0	2208.0	2222.4
5°	2219.5	2225.3	2222.4	2219.5	2219.5	2222.4	2210.9	2210.9	2205.2	2202.3	2216.6
7.5°	2208.0	2216.6	2210.9	2210.9	2208.0	2210.9	2199.4	2199.4	2190.8	2187.9	2202.3
10°	2187.9	2199.4	2193.7	2193.7	2193.7	2187.9	2182.2	2179.3	2170.7	2167.8	2176.5
12.5°	2165.0	2173.6	2170.7	2165.0	2165.0	2165.0	2153.5	2150.6	2139.1	2133.4	2142.0
15°	2136.3	2142.0	2139.1	2136.3	2130.5	2130.5	2119.0	2113.3	2101.8	2090.3	2096.1
17.5°	2093.2	2101.8	2096.1	2093.2	2084.6	2084.6	2073.1	2067.3	2050.1	2038.6	2041.5
20°	2047.2	2050.1	2047.2	2041.5	2032.9	2030.0	2018.5	2007.0	1992.7	1978.3	1975.5
22.5°	1992.7	1995.6	1986.9	1981.2	1972.6	1969.7	1955.4	1946.7	1923.8	1906.5	1903.7
25°	1920.9	1923.8	1923.8	1909.4	1903.7	1897.9	1883.6	1869.2	1849.1	1826.2	1817.5
27.5°	1834.8	1843.4	1837.6	1823.3	1811.8	1808.9	1794.6	1783.1	1757.2	1737.1	1725.7
30°	1742.9	1740.0	1737.1	1728.5	1711.3	1708.4	1694.1	1679.7	1659.6	1633.8	1619.4
32.5°	1625.2	1625.2	1622.3	1613.7	1596.4	1590.7	1579.2	1562.0	1539.0	1518.9	1504.6
35°	1496.0	1498.8	1496.0	1478.7	1467.2	1461.5	1455.8	1435.7	1415.6	1392.6	1381.1
37.5°	1361.0	1352.4	1355.3	1340.9	1326.5	1332.3	1315.1	1306.4	1283.5	1266.2	1254.8
40°	1214.6	1220.3	1208.8	1203.1	1194.5	1185.8	1185.8	1171.5	1160.0	1139.9	1134.2
42.5°	1071.0	1079.6	1076.7	1071.0	1059.5	1062.4	1048.0	1042.3	1027.9	1019.3	1010.7
45°	956.1	956.1	956.1	950.4	947.5	941.8	933.2	924.6	915.9	904.5	898.7
47.5°	844.2	844.2	847.0	841.3	835.6	832.7	826.9	826.9	812.6	801.1	795.4
50°	752.3	752.3	752.3	746.5	740.8	740.8	735.1	729.3	720.7	712.1	706.3
52.5°	669.0	669.0	669.0	663.3	660.4	657.5	654.7	651.8	640.3	634.6	628.8
55°	600.1	597.2	597.2	594.4	588.6	588.6	585.7	580.0	571.4	562.8	559.9
57.5°	531.2	534.1	531.2	531.2	525.4	525.4	519.7	516.8	508.2	502.5	496.7
60°	476.6	476.6	476.6	473.8	468.0	470.9	465.2	462.3	453.7	445.1	439.3
62.5°	422.1	425.0	425.0	422.1	416.3	416.3	413.5	410.6	402.0	393.4	384.8
65°	376.1	376.1	376.1	373.3	370.4	370.4	367.5	364.7	356.0	344.6	335.9
67.5°	333.1	330.2	330.2	330.2	327.3	324.5	321.6	318.7	310.1	301.5	290.0
70°	290.0	290.0	290.0	287.1	281.4	284.3	281.4	278.5	269.9	261.3	252.7
72.5°	249.8	249.8	246.9	244.1	244.1	241.2	241.2	238.3	229.7	218.2	209.6
75°	206.7	206.7	206.7	206.7	201.0	203.9	198.1	195.2	189.5	180.9	172.3
77.5°	169.4	169.4	169.4	166.5	163.7	163.7	160.8	157.9	149.3	143.6	132.1
80°	132.1	132.1	132.1	132.1	129.2	126.3	123.5	120.6	114.9	106.2	97.6
82.5°	97.6	97.6	94.8	94.8	94.8	91.9	89.0	86.1	80.4	74.7	68.9
85°	54.6	57.4	57.4	51.7	54.6	51.7	51.7	45.9	45.9	40.2	37.3
87.5°	20.1	17.2	17.2	17.2	17.2	17.2	17.2	14.4	14.4	14.4	11.5
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°	2210.9	2210.9	2210.9	2210.9	2210.9	2210.9	2210.9	2210.9	2210.9	2210.9	2210.9
2.5°	2210.9	2208.0	2219.5	2219.5	2202.3	2210.9	2213.8	2208.0	2208.0	2210.9	2202.3
5°	2205.2	2199.4	2210.9	2213.8	2196.5	2205.2	2208.0	2202.3	2205.2	2208.0	2196.5
7.5°	2185.1	2185.1	2193.7	2196.5	2179.3	2187.9	2187.9	2182.2	2185.1	2185.1	2176.5
10°	2165.0	2156.4	2165.0	2165.0	2150.6	2153.5	2159.2	2156.4	2167.8	2182.2	2182.2
12.5°	2127.6	2119.0	2133.4	2133.4	2124.8	2136.3	2150.6	2159.2	2170.7	2176.5	2159.2
15°	2081.7	2084.6	2110.4	2130.5	2121.9	2139.1	2153.5	2147.7	2133.4	2116.2	2090.3
17.5°	2021.4	2012.8	2035.8	2047.2	2035.8	2041.5	2053.0	2041.5	2018.5	2004.2	1969.7
20°	1952.5	1929.5	1929.5	1923.8	1903.7	1903.7	1900.8	1880.7	1872.1	1863.5	1849.1
22.5°	1875.0	1849.1	1840.5	1823.3	1806.1	1803.2	1794.6	1774.5	1763.0	1757.2	1740.0
25°	1786.0	1763.0	1748.6	1731.4	1705.6	1699.8	1691.2	1671.1	1665.4	1656.7	1642.4
27.5°	1694.1	1665.4	1645.3	1628.0	1605.1	1602.2	1585.0	1570.6	1559.1	1553.4	1541.9
30°	1587.8	1556.2	1541.9	1518.9	1501.7	1496.0	1481.6	1461.5	1452.9	1447.1	1438.5
32.5°	1470.1	1444.3	1429.9	1409.8	1386.8	1389.7	1372.5	1355.3	1349.5	1343.8	1335.2
35°	1355.3	1329.4	1312.2	1295.0	1280.6	1274.9	1263.4	1249.0	1240.4	1237.5	1231.8
37.5°	1228.9	1208.8	1194.5	1177.2	1165.8	1160.0	1154.3	1139.9	1134.2	1134.2	1122.7
40°	1105.5	1088.2	1076.7	1068.1	1053.8	1050.9	1045.2	1036.5	1033.7	1030.8	1022.2
42.5°	993.5	970.5	961.9	956.1	947.5	941.8	938.9	933.2	930.3	927.4	918.8
45°	887.2	867.1	858.5	852.8	844.2	841.3	838.4	829.8	824.1	818.3	815.5
47.5°	783.9	769.5	766.6	752.3	746.5	740.8	735.1	729.3	726.4	723.6	712.1
50°	694.9	686.2	671.9	663.3	657.5	654.7	643.2	634.6	631.7	628.8	620.2
52.5°	614.5	603.0	594.4	580.0	577.1	571.4	565.6	554.2	548.4	545.5	536.9
55°	542.7	534.1	522.6	511.1	502.5	499.6	491.0	479.5	473.8	468.0	462.3
57.5°	482.4	468.0	456.5	445.1	439.3	430.7	422.1	416.3	407.7	399.1	390.5
60°	425.0	413.5	399.1	387.6	381.9	376.1	364.7	356.0	347.4	338.8	330.2
62.5°	370.4	358.9	344.6	333.1	327.3	321.6	310.1	301.5	292.9	284.3	272.8
65°	321.6	310.1	298.6	287.1	281.4	275.6	264.2	252.7	244.1	235.4	224.0
67.5°	281.4	267.0	255.5	244.1	238.3	232.6	221.1	212.5	201.0	192.4	180.9
70°	238.3	226.8	218.2	206.7	201.0	195.2	183.8	172.3	163.7	155.1	143.6
72.5°	201.0	186.6	178.0	166.5	160.8	157.9	146.4	137.8	129.2	117.7	109.1
75°	160.8	149.3	137.8	129.2	123.5	120.6	109.1	100.5	91.9	83.3	74.7
77.5°	123.5	114.9	103.4	94.8	89.0	86.1	74.7	66.0	57.4	51.7	43.1
80°	91.9	80.4	74.7	66.0	63.2	57.4	51.7	43.1	37.3	28.7	23.0
82.5°	63.2	54.6	48.8	43.1	40.2	37.3	31.6	25.8	20.1	17.2	14.4
85°	34.5	28.7	25.8	23.0	20.1	20.1	17.2	14.4	11.5	8.6	5.7
87.5°	11.5	8.6	8.6	8.6	8.6	5.7	5.7	5.7	2.9	2.9	2.9
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°	2210.9	2210.9	2210.9	2210.9	2210.9	2210.9	2210.9	2210.9	2210.9	2210.9	2210.9
2.5°	2208.0	2208.0	2208.0	2205.2	2205.2	2205.2	2202.3	2213.8	2202.3	2199.4	2208.0
5°	2205.2	2199.4	2199.4	2199.4	2199.4	2196.5	2193.7	2199.4	2190.8	2187.9	2187.9
7.5°	2187.9	2185.1	2185.1	2182.2	2179.3	2176.5	2173.6	2176.5	2167.8	2165.0	2165.0
10°	2190.8	2185.1	2185.1	2176.5	2170.7	2162.1	2153.5	2156.4	2144.9	2136.3	2136.3
12.5°	2156.4	2142.0	2133.4	2124.8	2119.0	2116.2	2104.7	2110.4	2098.9	2096.1	2096.1
15°	2078.8	2061.6	2047.2	2041.5	2041.5	2035.8	2027.1	2038.6	2032.9	2035.8	2050.1
17.5°	1958.2	1949.6	1941.0	1938.1	1941.0	1946.7	1952.5	1969.7	1969.7	1978.3	1992.7
20°	1852.0	1846.2	1852.0	1852.0	1854.9	1866.3	1877.8	1892.2	1897.9	1906.5	1926.6
22.5°	1748.6	1748.6	1754.4	1763.0	1760.1	1780.2	1783.1	1808.9	1808.9	1826.2	1843.4
25°	1648.1	1648.1	1653.9	1656.7	1662.5	1674.0	1685.5	1705.6	1711.3	1728.5	1742.9
27.5°	1550.5	1547.6	1547.6	1550.5	1556.2	1570.6	1576.3	1599.3	1607.9	1619.4	1633.8
30°	1441.4	1438.5	1444.3	1450.0	1447.1	1461.5	1470.1	1487.3	1493.1	1504.6	1516.0
32.5°	1338.0	1338.0	1338.0	1343.8	1343.8	1355.3	1355.3	1375.4	1375.4	1384.0	1395.5
35°	1231.8	1231.8	1234.7	1237.5	1240.4	1243.3	1246.1	1257.6	1260.5	1263.4	1269.1
37.5°	1131.3	1128.4	1131.3	1131.3	1125.6	1137.0	1137.0	1148.5	1139.9	1148.5	1151.4
40°	1027.9	1027.9	1025.1	1025.1	1025.1	1030.8	1025.1	1033.7	1027.9	1033.7	1030.8
42.5°	921.7	921.7	915.9	921.7	918.8	918.8	918.8	924.6	915.9	921.7	924.6
45°	815.5	812.6	812.6	809.7	809.7	809.7	812.6	812.6	809.7	815.5	815.5
47.5°	712.1	709.2	709.2	709.2	709.2	712.1	703.5	709.2	703.5	703.5	703.5
50°	623.1	620.2	617.3	614.5	611.6	611.6	608.7	608.7	603.0	600.1	597.2
52.5°	536.9	534.1	528.3	528.3	525.4	522.6	514.0	514.0	505.3	502.5	502.5
55°	459.4	450.8	447.9	442.2	442.2	436.4	430.7	425.0	416.3	410.6	410.6
57.5°	387.6	379.0	373.3	370.4	367.5	361.8	350.3	347.4	335.9	333.1	330.2
60°	324.5	315.8	307.2	301.5	298.6	290.0	278.5	272.8	267.0	258.4	249.8
62.5°	264.2	255.5	244.1	241.2	235.4	226.8	218.2	209.6	203.9	195.2	189.5
65°	212.5	203.9	195.2	189.5	183.8	175.1	166.5	157.9	152.2	149.3	146.4
67.5°	172.3	160.8	152.2	149.3	143.6	137.8	129.2	126.3	120.6	120.6	120.6
70°	135.0	126.3	117.7	114.9	112.0	106.2	100.5	100.5	100.5	100.5	100.5
72.5°	100.5	94.8	86.1	83.3	80.4	77.5	71.8	74.7	71.8	71.8	71.8
75°	63.2	57.4	51.7	48.8	45.9	43.1	40.2	37.3	34.5	31.6	31.6
77.5°	34.5	28.7	25.8	23.0	23.0	20.1	17.2	17.2	14.4	14.4	14.4
80°	20.1	17.2	14.4	11.5	11.5	8.6	8.6	8.6	8.6	5.7	5.7
82.5°	11.5	8.6	5.7	5.7	5.7	5.7	2.9	2.9	2.9	2.9	2.9
85°	5.7	5.7	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	0.0
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	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	0.0	0.0	0.0



TEST NUMBER: P252419

CATALOG NUMBER: LD6B60D010TE EU6B60709024 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2210.9	2210.9	2210.9	2210.9	2210.9	2210.9	2210.9	2210.9
2.5°	2193.7	2202.3	2193.7	2202.3	2202.3	2202.3	2202.3	2193.7
5°	2179.3	2185.1	2176.5	2182.2	2185.1	2182.2	2182.2	2173.6
7.5°	2153.5	2159.2	2150.6	2159.2	2162.1	2159.2	2156.4	2150.6
10°	2127.6	2130.5	2121.9	2127.6	2133.4	2133.4	2130.5	2121.9
12.5°	2087.4	2096.1	2087.4	2093.2	2098.9	2101.8	2101.8	2093.2
15°	2041.5	2055.9	2050.1	2058.7	2067.3	2070.2	2070.2	2067.3
17.5°	1995.6	2009.9	2001.3	2015.7	2024.3	2030.0	2032.9	2027.1
20°	1929.5	1946.7	1941.0	1952.5	1964.0	1972.6	1972.6	1964.0
22.5°	1843.4	1866.3	1863.5	1872.1	1886.4	1889.3	1895.1	1889.3
25°	1748.6	1765.9	1763.0	1771.6	1788.8	1788.8	1791.7	1791.7
27.5°	1639.5	1656.7	1653.9	1659.6	1671.1	1674.0	1676.8	1671.1
30°	1521.8	1530.4	1530.4	1539.0	1547.6	1550.5	1550.5	1541.9
32.5°	1392.6	1404.1	1409.8	1406.9	1415.6	1421.3	1418.4	1418.4
35°	1274.9	1277.7	1280.6	1283.5	1286.3	1292.1	1286.3	1283.5
37.5°	1148.5	1157.1	1151.4	1157.1	1162.9	1160.0	1157.1	1157.1
40°	1033.7	1036.5	1030.8	1036.5	1039.4	1039.4	1039.4	1033.7
42.5°	918.8	924.6	918.8	924.6	924.6	924.6	924.6	921.7
45°	804.0	809.7	809.7	812.6	812.6	809.7	809.7	809.7
47.5°	697.7	703.5	697.7	703.5	706.3	700.6	700.6	700.6
50°	597.2	594.4	594.4	597.2	597.2	597.2	597.2	594.4
52.5°	493.9	496.7	496.7	496.7	499.6	496.7	499.6	499.6
55°	404.9	404.9	404.9	407.7	404.9	404.9	407.7	410.6
57.5°	324.5	321.6	318.7	318.7	321.6	318.7	318.7	318.7
60°	249.8	246.9	244.1	244.1	244.1	244.1	244.1	241.2
62.5°	186.6	186.6	186.6	189.5	189.5	189.5	189.5	192.4
65°	149.3	149.3	149.3	149.3	149.3	149.3	149.3	152.2
67.5°	120.6	120.6	120.6	123.5	123.5	123.5	123.5	123.5
70°	100.5	100.5	103.4	100.5	103.4	103.4	103.4	103.4
72.5°	68.9	68.9	68.9	68.9	68.9	66.0	68.9	66.0
75°	28.7	28.7	28.7	28.7	28.7	28.7	28.7	25.8
77.5°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
80°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
82.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	2.9	2.9	2.9	2.9	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)