

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: P252514

Luminaire Tested: **LD6B50D010TE EU6B30509040 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252514
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 EU6B30509040 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3938.0 lumens
Efficiency: N/A
Efficacy: 67.0 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

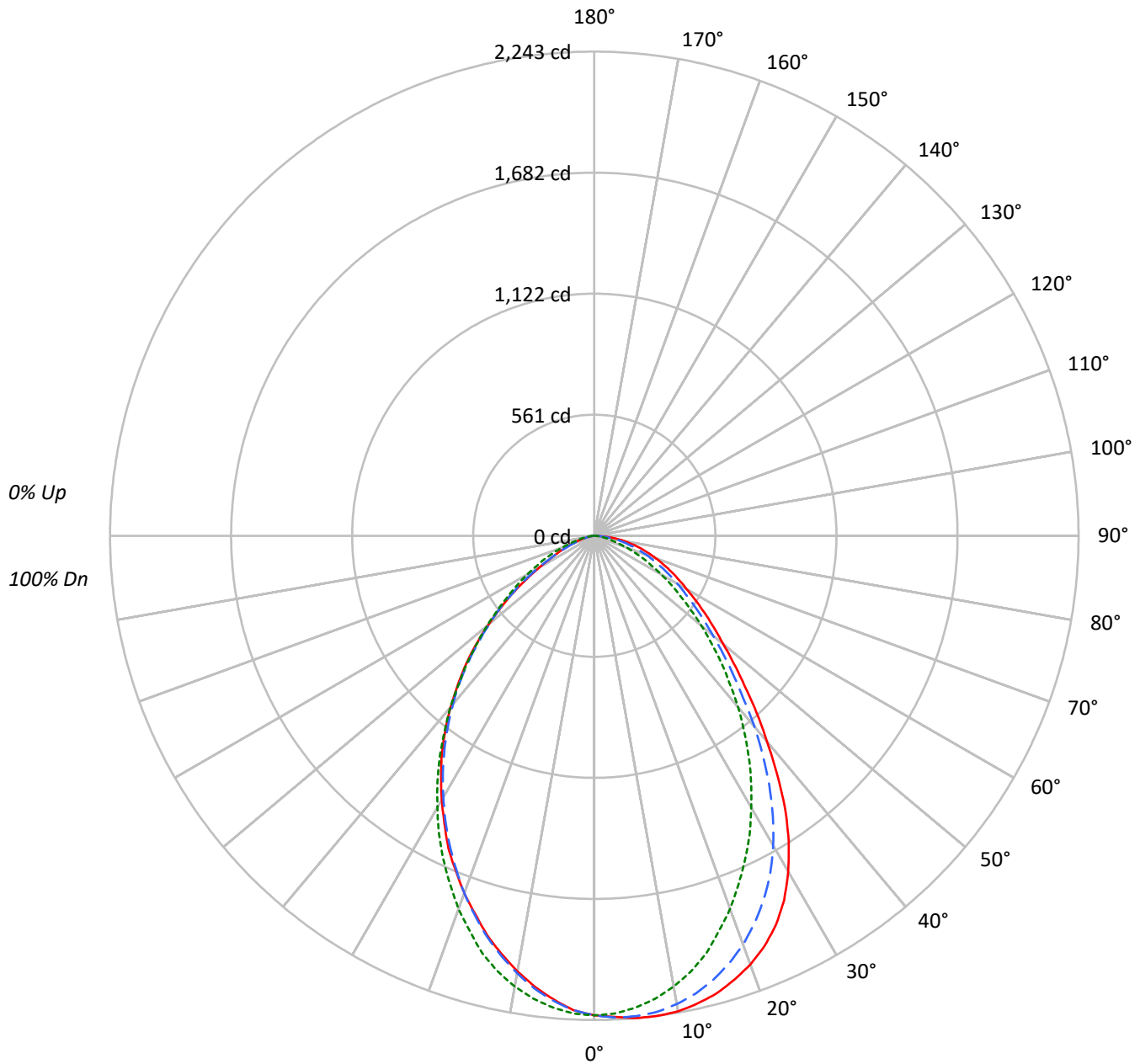
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	144939	144939	144939
5°	146907	143672	141248
10°	148195	140431	135727
15°	148174	135253	129417
20°	146742	127677	122325
25°	143265	119056	115054
30°	135284	109482	106461
35°	122628	99284	98050
40°	105903	88300	88036
45°	90816	76865	77437
50°	78924	65770	64826
55°	70896	55450	51947
60°	64419	46699	38244
65°	60499	38578	28096
70°	57683	30024	20601
75°	55229	21779	13990
80°	52186	15066	9280
85°	46186	9207	4641



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.8	5.3
10°-20°	569.2	14.5
20°-30°	790.2	20.1
30°-40°	818.4	20.8
40°-50°	672.6	17.1
50°-60°	462.2	11.7
60°-70°	265.7	6.7
70°-80°	122.2	3.1
80°-90°	29.8	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°	1567.1	39.8
0°-40°	2385.6	60.6
0°-60°	3520.4	89.4
0°-90°	3938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3938.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2222	2222	2222	2222	2222	
5°	2243	2234	2194	2163	2157	214
15°	2194	2129	2002	1922	1916	618
25°	1990	1858	1654	1583	1598	911
35°	1540	1413	1247	1210	1231	955
45°	984	910	833	824	839	767
55°	623	565	488	460	457	561
65°	392	342	250	176	182	390
75°	219	173	86	56	56	232
85°	62	43	12	6	6	69
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°	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6
2.5°	2230.9	2249.4	2237.0	2234.0	2240.1	2240.1	2240.1	2230.9	2237.0	2227.8	2234.0
5°	2243.2	2258.6	2246.3	2240.1	2246.3	2249.4	2240.1	2234.0	2243.2	2230.9	2234.0
7.5°	2243.2	2258.6	2246.3	2243.2	2246.3	2246.3	2243.2	2230.9	2237.0	2224.7	2224.7
10°	2237.0	2249.4	2237.0	2230.9	2234.0	2230.9	2230.9	2215.4	2218.5	2203.1	2203.1
12.5°	2218.5	2234.0	2218.5	2212.4	2212.4	2212.4	2203.1	2190.8	2193.8	2175.3	2172.2
15°	2193.8	2206.2	2190.8	2184.6	2184.6	2181.5	2175.3	2156.8	2156.8	2138.3	2129.0
17.5°	2156.8	2169.2	2156.8	2147.6	2144.5	2138.3	2132.1	2113.6	2107.4	2085.8	2076.6
20°	2113.6	2122.9	2110.5	2101.3	2095.1	2088.9	2076.6	2058.1	2051.9	2030.3	2014.9
22.5°	2058.1	2070.4	2051.9	2042.7	2036.5	2027.2	2014.9	1996.4	1987.1	1959.3	1940.8
25°	1990.2	1996.4	1980.9	1971.7	1959.3	1953.2	1943.9	1919.2	1910.0	1879.1	1857.5
27.5°	1903.8	1910.0	1891.5	1885.3	1869.9	1863.7	1851.3	1829.7	1817.4	1786.5	1764.9
30°	1795.8	1802.0	1789.6	1780.4	1768.0	1755.7	1746.4	1724.8	1706.3	1675.5	1657.0
32.5°	1675.5	1684.7	1672.4	1660.0	1638.4	1641.5	1626.1	1604.5	1589.1	1561.3	1539.7
35°	1539.7	1545.9	1530.4	1527.4	1515.0	1502.7	1487.2	1471.8	1462.6	1431.7	1413.2
37.5°	1388.5	1403.9	1388.5	1376.2	1370.0	1360.7	1351.5	1329.9	1323.7	1305.2	1280.5
40°	1243.5	1252.7	1243.5	1231.1	1221.9	1221.9	1209.5	1197.2	1181.8	1163.3	1154.0
42.5°	1113.9	1107.7	1104.6	1098.5	1086.1	1083.0	1080.0	1064.5	1055.3	1036.8	1021.3
45°	984.3	987.4	981.2	978.1	968.9	962.7	956.5	944.2	941.1	922.6	910.2
47.5°	876.3	873.2	867.0	867.0	860.9	854.7	848.5	839.3	836.2	820.8	808.4
50°	777.6	780.7	777.6	774.5	765.2	762.1	756.0	749.8	743.6	728.2	715.9
52.5°	697.3	694.3	691.2	691.2	681.9	678.8	672.7	666.5	660.3	644.9	635.6
55°	623.3	623.3	620.2	617.1	607.9	604.8	601.7	595.5	586.3	573.9	564.7
57.5°	555.4	555.4	552.3	549.2	543.1	543.1	536.9	530.7	524.5	512.2	499.9
60°	493.7	496.8	493.7	490.6	484.4	484.4	481.3	472.1	469.0	453.6	444.3
62.5°	441.2	441.2	441.2	438.2	435.1	428.9	428.9	419.6	413.5	404.2	391.9
65°	391.9	391.9	391.9	388.8	382.6	379.5	376.4	370.3	364.1	354.8	342.5
67.5°	345.6	345.6	345.6	342.5	336.3	333.2	330.2	327.1	317.8	308.6	296.2
70°	302.4	302.4	299.3	296.2	293.1	290.0	287.0	280.8	274.6	262.3	253.0
72.5°	259.2	259.2	259.2	253.0	249.9	249.9	243.8	240.7	234.5	222.2	212.9
75°	219.1	216.0	216.0	212.9	209.8	206.7	203.6	200.6	191.3	185.1	172.8
77.5°	179.0	179.0	175.9	172.8	172.8	169.7	166.6	160.4	157.4	148.1	138.9
80°	138.9	138.9	138.9	138.9	135.8	132.7	132.7	126.5	123.4	114.2	108.0
82.5°	104.9	101.8	101.8	101.8	98.7	95.7	95.7	92.6	89.5	83.3	77.1
85°	61.7	58.6	58.6	58.6	55.5	55.5	52.5	52.5	49.4	43.2	43.2
87.5°	18.5	18.5	21.6	21.6	18.5	18.5	18.5	18.5	18.5	15.4	15.4
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°	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6
2.5°	2227.8	2237.0	2224.7	2221.6	2234.0	2227.8	2224.7	2218.5	2221.6	2215.4	2206.2
5°	2224.7	2237.0	2221.6	2212.4	2227.8	2218.5	2212.4	2206.2	2206.2	2193.8	2187.7
7.5°	2215.4	2221.6	2206.2	2196.9	2206.2	2196.9	2190.8	2181.5	2178.4	2163.0	2153.7
10°	2190.8	2196.9	2178.4	2166.1	2175.3	2163.0	2153.7	2144.5	2138.3	2119.8	2107.4
12.5°	2156.8	2159.9	2138.3	2122.9	2129.0	2119.8	2104.4	2092.0	2085.8	2067.3	2051.9
15°	2110.5	2113.6	2088.9	2067.3	2073.5	2061.2	2042.7	2030.3	2021.1	2002.5	1980.9
17.5°	2055.0	2051.9	2024.1	2002.5	2005.6	1990.2	1971.7	1953.2	1940.8	1919.2	1903.8
20°	1993.3	1984.0	1953.2	1928.5	1931.6	1913.1	1891.5	1872.9	1857.5	1839.0	1817.4
22.5°	1916.1	1903.8	1876.0	1845.2	1848.3	1832.8	1802.0	1786.5	1771.1	1746.4	1727.9
25°	1832.8	1814.3	1786.5	1755.7	1755.7	1737.2	1712.5	1694.0	1678.6	1653.9	1632.3
27.5°	1734.1	1724.8	1687.8	1663.1	1660.0	1641.5	1619.9	1598.3	1579.8	1558.2	1536.6
30°	1626.1	1610.7	1582.9	1555.1	1549.0	1533.5	1511.9	1487.2	1474.9	1453.3	1434.8
32.5°	1511.9	1496.5	1465.6	1437.9	1434.8	1422.5	1403.9	1379.3	1366.9	1351.5	1339.1
35°	1382.3	1376.2	1345.3	1323.7	1323.7	1311.4	1292.9	1271.3	1262.0	1246.6	1231.1
37.5°	1258.9	1249.7	1221.9	1203.4	1203.4	1187.9	1169.4	1160.2	1150.9	1138.6	1129.3
40°	1129.3	1123.1	1101.6	1083.0	1086.1	1073.8	1061.4	1049.1	1042.9	1036.8	1027.5
42.5°	1009.0	1002.8	987.4	972.0	972.0	962.7	950.4	941.1	934.9	925.7	922.6
45°	901.0	891.7	879.4	864.0	864.0	854.7	848.5	842.4	839.3	833.1	823.8
47.5°	796.1	789.9	777.6	762.1	762.1	762.1	749.8	740.5	740.5	734.4	731.3
50°	706.6	697.3	688.1	675.7	675.7	669.6	660.3	651.1	651.1	648.0	641.8
52.5°	623.3	617.1	604.8	592.4	592.4	586.3	577.0	573.9	570.8	561.6	558.5
55°	552.3	546.1	536.9	521.5	518.4	515.3	506.0	499.9	496.8	487.5	487.5
57.5°	487.5	481.3	465.9	456.7	453.6	447.4	438.2	432.0	428.9	422.7	416.6
60°	432.0	422.7	410.4	398.0	395.0	388.8	379.5	373.4	370.3	357.9	351.8
62.5°	379.5	370.3	357.9	345.6	342.5	336.3	324.0	317.8	311.6	299.3	293.1
65°	330.2	320.9	308.6	296.2	290.0	287.0	274.6	265.4	259.2	249.9	237.6
67.5°	283.9	274.6	262.3	246.8	246.8	237.6	228.3	219.1	209.8	200.6	191.3
70°	240.7	231.4	219.1	206.7	203.6	197.5	188.2	175.9	169.7	157.4	148.1
72.5°	200.6	191.3	179.0	166.6	163.5	157.4	148.1	135.8	126.5	117.3	108.0
75°	163.5	154.3	141.9	132.7	129.6	123.4	114.2	101.8	92.6	86.4	77.1
77.5°	129.6	120.3	111.1	101.8	98.7	92.6	83.3	77.1	67.9	61.7	52.5
80°	98.7	92.6	83.3	77.1	74.1	67.9	61.7	52.5	46.3	40.1	37.0
82.5°	71.0	64.8	58.6	49.4	49.4	43.2	40.1	33.9	27.8	24.7	21.6
85°	40.1	33.9	30.9	27.8	24.7	24.7	21.6	18.5	15.4	12.3	12.3
87.5°	12.3	12.3	9.3	9.3	9.3	9.3	6.2	6.2	6.2	6.2	6.2
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°	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6
2.5°	2206.2	2209.3	2203.1	2209.3	2203.1	2206.2	2200.0	2206.2	2200.0	2206.2	2193.8
5°	2184.6	2184.6	2175.3	2181.5	2175.3	2178.4	2166.1	2169.2	2163.0	2169.2	2156.8
7.5°	2147.6	2150.6	2135.2	2141.4	2132.1	2132.1	2122.9	2126.0	2116.7	2119.8	2110.5
10°	2104.4	2101.3	2085.8	2092.0	2079.7	2079.7	2070.4	2070.4	2058.1	2061.2	2048.8
12.5°	2042.7	2039.6	2021.1	2027.2	2014.9	2014.9	2005.6	2005.6	1993.3	1999.5	1987.1
15°	1971.7	1968.6	1950.1	1953.2	1940.8	1940.8	1928.5	1931.6	1922.3	1928.5	1916.1
17.5°	1891.5	1888.4	1869.9	1872.9	1857.5	1860.6	1851.3	1848.3	1842.1	1845.2	1835.9
20°	1808.1	1802.0	1783.5	1786.5	1780.4	1771.1	1764.9	1768.0	1761.9	1768.0	1758.8
22.5°	1721.8	1709.4	1694.0	1694.0	1687.8	1687.8	1678.6	1684.7	1672.4	1681.6	1675.5
25°	1623.0	1613.8	1601.4	1607.6	1595.2	1595.2	1586.0	1589.1	1582.9	1589.1	1582.9
27.5°	1527.4	1521.2	1502.7	1508.8	1499.6	1502.7	1493.4	1496.5	1493.4	1499.6	1493.4
30°	1425.5	1422.5	1410.1	1410.1	1407.0	1403.9	1400.9	1400.9	1397.8	1407.0	1400.9
32.5°	1329.9	1320.6	1308.3	1317.5	1302.1	1311.4	1305.2	1311.4	1305.2	1311.4	1308.3
35°	1231.1	1228.1	1212.6	1215.7	1212.6	1212.6	1209.5	1209.5	1209.5	1218.8	1218.8
37.5°	1126.2	1123.1	1113.9	1117.0	1110.8	1107.7	1107.7	1113.9	1113.9	1120.1	1120.1
40°	1024.4	1027.5	1018.2	1018.2	1015.2	1015.2	1015.2	1021.3	1018.2	1024.4	1021.3
42.5°	922.6	922.6	913.3	916.4	913.3	916.4	916.4	922.6	922.6	925.7	922.6
45°	826.9	826.9	823.8	826.9	820.8	823.8	820.8	826.9	823.8	826.9	826.9
47.5°	731.3	731.3	731.3	728.2	728.2	728.2	728.2	728.2	725.1	731.3	728.2
50°	641.8	644.9	641.8	641.8	638.7	641.8	638.7	638.7	632.5	635.6	635.6
52.5°	561.6	561.6	555.4	555.4	555.4	552.3	552.3	552.3	549.2	549.2	543.1
55°	484.4	484.4	478.3	478.3	475.2	472.1	469.0	469.0	459.8	459.8	450.5
57.5°	413.5	410.4	401.1	401.1	395.0	391.9	388.8	385.7	379.5	373.4	370.3
60°	348.7	342.5	336.3	333.2	327.1	320.9	314.7	308.6	302.4	299.3	296.2
62.5°	287.0	277.7	271.5	268.4	262.3	253.0	246.8	240.7	234.5	231.4	225.2
65°	231.4	222.2	212.9	209.8	203.6	197.5	188.2	182.0	175.9	172.8	172.8
67.5°	182.0	172.8	160.4	160.4	154.3	148.1	141.9	135.8	132.7	135.8	135.8
70°	135.8	129.6	120.3	117.3	111.1	104.9	101.8	101.8	101.8	104.9	101.8
72.5°	101.8	92.6	86.4	83.3	80.2	77.1	77.1	77.1	74.1	77.1	77.1
75°	71.0	64.8	58.6	58.6	55.5	55.5	55.5	55.5	55.5	55.5	55.5
77.5°	49.4	43.2	40.1	40.1	40.1	37.0	37.0	37.0	37.0	37.0	37.0
80°	30.9	30.9	27.8	27.8	24.7	24.7	24.7	24.7	24.7	24.7	24.7
82.5°	18.5	18.5	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
85°	9.3	9.3	9.3	9.3	9.3	6.2	6.2	6.2	6.2	6.2	6.2
87.5°	3.1	3.1	3.1	3.1	3.1	6.2	6.2	6.2	6.2	6.2	6.2
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: P252514

CATALOG NUMBER: LD6B50D010TE EU6B30509040 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6
2.5°	2193.8	2203.1	2190.8	2200.0	2196.9	2193.8	2187.7	2200.0
5°	2156.8	2159.9	2147.6	2159.9	2156.8	2150.6	2144.5	2156.8
7.5°	2104.4	2113.6	2098.2	2110.5	2107.4	2101.3	2095.1	2107.4
10°	2045.7	2055.0	2042.7	2051.9	2051.9	2045.7	2036.5	2048.8
12.5°	1980.9	1987.1	1974.8	1987.1	1984.0	1977.9	1974.8	1984.0
15°	1910.0	1919.2	1906.9	1916.1	1913.1	1910.0	1906.9	1916.1
17.5°	1832.8	1842.1	1832.8	1842.1	1842.1	1832.8	1829.7	1835.9
20°	1755.7	1761.9	1752.6	1761.9	1758.8	1758.8	1752.6	1761.9
22.5°	1669.3	1678.6	1672.4	1678.6	1675.5	1675.5	1672.4	1678.6
25°	1582.9	1592.2	1582.9	1592.2	1589.1	1589.1	1582.9	1598.3
27.5°	1496.5	1502.7	1493.4	1505.8	1502.7	1496.5	1499.6	1502.7
30°	1403.9	1410.1	1403.9	1413.2	1413.2	1413.2	1407.0	1413.2
32.5°	1311.4	1320.6	1311.4	1320.6	1317.5	1317.5	1314.5	1320.6
35°	1218.8	1221.9	1215.7	1225.0	1225.0	1228.1	1221.9	1231.1
37.5°	1123.1	1126.2	1123.1	1126.2	1132.4	1123.1	1129.3	1132.4
40°	1024.4	1030.6	1027.5	1030.6	1030.6	1033.7	1030.6	1033.7
42.5°	925.7	931.8	925.7	934.9	931.8	931.8	934.9	934.9
45°	823.8	833.1	826.9	833.1	836.2	833.1	833.1	839.3
47.5°	728.2	734.4	731.3	734.4	734.4	734.4	734.4	740.5
50°	632.5	635.6	635.6	638.7	638.7	641.8	635.6	638.7
52.5°	536.9	543.1	543.1	543.1	540.0	543.1	543.1	543.1
55°	450.5	453.6	447.4	453.6	453.6	450.5	450.5	456.7
57.5°	367.2	367.2	367.2	367.2	367.2	364.1	367.2	367.2
60°	290.0	293.1	290.0	290.0	290.0	290.0	287.0	293.1
62.5°	225.2	225.2	222.2	225.2	225.2	225.2	228.3	228.3
65°	175.9	179.0	175.9	179.0	179.0	179.0	179.0	182.0
67.5°	138.9	138.9	138.9	138.9	138.9	138.9	138.9	138.9
70°	104.9	104.9	104.9	108.0	104.9	104.9	104.9	108.0
72.5°	77.1	77.1	77.1	77.1	77.1	77.1	80.2	80.2
75°	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
77.5°	37.0	37.0	37.0	40.1	37.0	40.1	37.0	37.0
80°	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
82.5°	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
85°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
87.5°	6.2	6.2	6.2	6.2	3.1	3.1	3.1	3.1
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)