

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: P252513

Luminaire Tested: **LD6B50D010TE EU6B30509035 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252513
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 EU6B30509035 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3931.0 lumens
Efficiency: N/A
Efficacy: 66.9 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

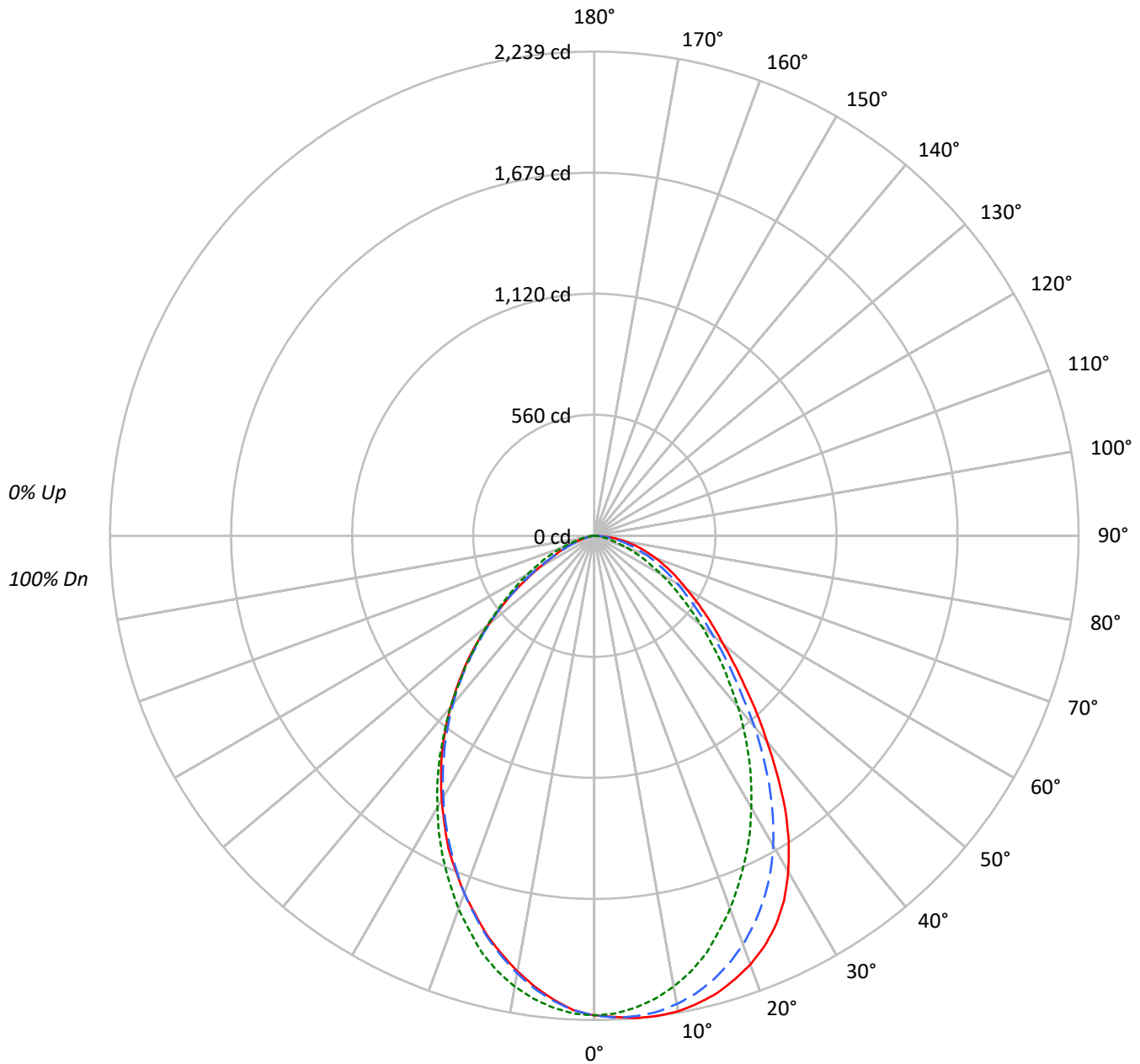
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	144684	144684	144684
5°	146645	143416	141000
10°	147936	140179	135489
15°	147910	135017	129188
20°	146485	127448	122102
25°	143013	118840	114852
30°	135043	109286	106273
35°	122413	99109	97883
40°	105716	88138	87874
45°	90650	76727	77299
50°	78782	65648	64714
55°	70771	55359	51856
60°	64301	46621	38179
65°	60391	38516	28049
70°	57569	29967	20563
75°	55128	21728	13965
80°	52073	15028	9242
85°	46111	9207	4641



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.4	5.3
10°-20°	568.2	14.5
20°-30°	788.8	20.1
30°-40°	817.0	20.8
40°-50°	671.4	17.1
50°-60°	461.4	11.7
60°-70°	265.2	6.7
70°-80°	121.9	3.1
80°-90°	29.7	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°	1564.3	39.8
0°-40°	2381.3	60.6
0°-60°	3514.1	89.4
0°-90°	3931.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3931.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2218	2218	2218	2218	2218	
5°	2239	2230	2190	2159	2153	213
15°	2190	2125	1999	1919	1913	617
25°	1987	1854	1651	1580	1596	909
35°	1537	1411	1244	1207	1229	953
45°	982	909	832	822	838	765
55°	622	564	487	459	456	560
65°	391	342	250	176	182	389
75°	219	172	86	55	55	231
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°	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7
2.5°	2226.9	2245.4	2233.1	2230.0	2236.1	2236.1	2236.1	2226.9	2233.1	2223.8	2230.0
5°	2239.2	2254.6	2242.3	2236.1	2242.3	2245.4	2236.1	2230.0	2239.2	2226.9	2230.0
7.5°	2239.2	2254.6	2242.3	2239.2	2242.3	2242.3	2239.2	2226.9	2233.1	2220.7	2220.7
10°	2233.1	2245.4	2233.1	2226.9	2230.0	2226.9	2226.9	2211.5	2214.6	2199.2	2199.2
12.5°	2214.6	2230.0	2214.6	2208.4	2208.4	2208.4	2199.2	2186.9	2189.9	2171.5	2168.4
15°	2189.9	2202.3	2186.9	2180.7	2180.7	2177.6	2171.5	2153.0	2153.0	2134.5	2125.3
17.5°	2153.0	2165.3	2153.0	2143.7	2140.7	2134.5	2128.3	2109.9	2103.7	2082.1	2072.9
20°	2109.9	2119.1	2106.8	2097.5	2091.4	2085.2	2072.9	2054.4	2048.3	2026.7	2011.3
22.5°	2054.4	2066.7	2048.3	2039.0	2032.9	2023.6	2011.3	1992.8	1983.6	1955.9	1937.4
25°	1986.7	1992.8	1977.4	1968.2	1955.9	1949.7	1940.5	1915.8	1906.6	1875.8	1854.2
27.5°	1900.4	1906.6	1888.1	1881.9	1866.5	1860.4	1848.1	1826.5	1814.2	1783.4	1761.8
30°	1792.6	1798.8	1786.5	1777.2	1764.9	1752.6	1743.3	1721.8	1703.3	1672.5	1654.0
32.5°	1672.5	1681.7	1669.4	1657.1	1635.5	1638.6	1623.2	1601.6	1586.2	1558.5	1537.0
35°	1537.0	1543.1	1527.7	1524.6	1512.3	1500.0	1484.6	1469.2	1460.0	1429.2	1410.7
37.5°	1386.0	1401.4	1386.0	1373.7	1367.6	1358.3	1349.1	1327.5	1321.4	1302.9	1278.2
40°	1241.3	1250.5	1241.3	1229.0	1219.7	1219.7	1207.4	1195.1	1179.7	1161.2	1152.0
42.5°	1111.9	1105.8	1102.7	1096.5	1084.2	1081.1	1078.0	1062.6	1053.4	1034.9	1019.5
45°	982.5	985.6	979.5	976.4	967.1	961.0	954.8	942.5	939.4	920.9	908.6
47.5°	874.7	871.7	865.5	865.5	859.3	853.2	847.0	837.8	834.7	819.3	807.0
50°	776.2	779.3	776.2	773.1	763.9	760.8	754.6	748.5	742.3	726.9	714.6
52.5°	696.1	693.0	689.9	689.9	680.7	677.6	671.5	665.3	659.1	643.7	634.5
55°	622.2	622.2	619.1	616.0	606.8	603.7	600.6	594.5	585.2	572.9	563.7
57.5°	554.4	554.4	551.3	548.3	542.1	542.1	535.9	529.8	523.6	511.3	499.0
60°	492.8	495.9	492.8	489.7	483.6	483.6	480.5	471.3	468.2	452.8	443.5
62.5°	440.5	440.5	440.5	437.4	434.3	428.1	428.1	418.9	412.7	403.5	391.2
65°	391.2	391.2	391.2	388.1	381.9	378.9	375.8	369.6	363.5	354.2	341.9
67.5°	345.0	345.0	345.0	341.9	335.7	332.6	329.6	326.5	317.2	308.0	295.7
70°	301.8	301.8	298.8	295.7	292.6	289.5	286.4	280.3	274.1	261.8	252.6
72.5°	258.7	258.7	258.7	252.6	249.5	249.5	243.3	240.2	234.1	221.8	212.5
75°	218.7	215.6	215.6	212.5	209.4	206.4	203.3	200.2	191.0	184.8	172.5
77.5°	178.6	178.6	175.6	172.5	172.5	169.4	166.3	160.2	157.1	147.8	138.6
80°	138.6	138.6	138.6	138.6	135.5	132.4	132.4	126.3	123.2	114.0	107.8
82.5°	104.7	101.6	101.6	101.6	98.6	95.5	95.5	92.4	89.3	83.2	77.0
85°	61.6	58.5	58.5	58.5	55.4	55.4	52.4	52.4	49.3	43.1	43.1
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°	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7
2.5°	2223.8	2233.1	2220.7	2217.7	2230.0	2223.8	2220.7	2214.6	2217.7	2211.5	2202.3
5°	2220.7	2233.1	2217.7	2208.4	2223.8	2214.6	2208.4	2202.3	2202.3	2189.9	2183.8
7.5°	2211.5	2217.7	2202.3	2193.0	2202.3	2193.0	2186.9	2177.6	2174.5	2159.1	2149.9
10°	2186.9	2193.0	2174.5	2162.2	2171.5	2159.1	2149.9	2140.7	2134.5	2116.0	2103.7
12.5°	2153.0	2156.1	2134.5	2119.1	2125.3	2116.0	2100.6	2088.3	2082.1	2063.7	2048.3
15°	2106.8	2109.9	2085.2	2063.7	2069.8	2057.5	2039.0	2026.7	2017.5	1999.0	1977.4
17.5°	2051.3	2048.3	2020.5	1999.0	2002.1	1986.7	1968.2	1949.7	1937.4	1915.8	1900.4
20°	1989.7	1980.5	1949.7	1925.1	1928.1	1909.7	1888.1	1869.6	1854.2	1835.7	1814.2
22.5°	1912.7	1900.4	1872.7	1841.9	1845.0	1829.6	1798.8	1783.4	1768.0	1743.3	1724.9
25°	1829.6	1811.1	1783.4	1752.6	1752.6	1734.1	1709.5	1691.0	1675.6	1650.9	1629.4
27.5°	1731.0	1721.8	1684.8	1660.2	1657.1	1638.6	1617.0	1595.5	1577.0	1555.4	1533.9
30°	1623.2	1607.8	1580.1	1552.4	1546.2	1530.8	1509.2	1484.6	1472.3	1450.7	1432.2
32.5°	1509.2	1493.8	1463.0	1435.3	1432.2	1419.9	1401.4	1376.8	1364.5	1349.1	1336.8
35°	1379.9	1373.7	1342.9	1321.4	1321.4	1309.0	1290.6	1269.0	1259.8	1244.4	1229.0
37.5°	1256.7	1247.4	1219.7	1201.2	1201.2	1185.8	1167.4	1158.1	1148.9	1136.6	1127.3
40°	1127.3	1121.2	1099.6	1081.1	1084.2	1071.9	1059.6	1047.2	1041.1	1034.9	1025.7
42.5°	1007.2	1001.0	985.6	970.2	970.2	961.0	948.7	939.4	933.3	924.0	920.9
45°	899.4	890.1	877.8	862.4	862.4	853.2	847.0	840.9	837.8	831.6	822.4
47.5°	794.7	788.5	776.2	760.8	760.8	760.8	748.5	739.2	739.2	733.1	730.0
50°	705.3	696.1	686.9	674.5	674.5	668.4	659.1	649.9	649.9	646.8	640.7
52.5°	622.2	616.0	603.7	591.4	591.4	585.2	576.0	572.9	569.8	560.6	557.5
55°	551.3	545.2	535.9	520.5	517.5	514.4	505.1	499.0	495.9	486.7	486.7
57.5°	486.7	480.5	465.1	455.9	452.8	446.6	437.4	431.2	428.1	422.0	415.8
60°	431.2	422.0	409.7	397.3	394.3	388.1	378.9	372.7	369.6	357.3	351.1
62.5°	378.9	369.6	357.3	345.0	341.9	335.7	323.4	317.2	311.1	298.8	292.6
65°	329.6	320.3	308.0	295.7	289.5	286.4	274.1	264.9	258.7	249.5	237.2
67.5°	283.4	274.1	261.8	246.4	246.4	237.2	227.9	218.7	209.4	200.2	191.0
70°	240.2	231.0	218.7	206.4	203.3	197.1	187.9	175.6	169.4	157.1	147.8
72.5°	200.2	191.0	178.6	166.3	163.2	157.1	147.8	135.5	126.3	117.0	107.8
75°	163.2	154.0	141.7	132.4	129.4	123.2	114.0	101.6	92.4	86.2	77.0
77.5°	129.4	120.1	110.9	101.6	98.6	92.4	83.2	77.0	67.8	61.6	52.4
80°	98.6	92.4	83.2	77.0	73.9	67.8	61.6	52.4	46.2	40.0	37.0
82.5°	70.8	64.7	58.5	49.3	49.3	43.1	40.0	33.9	27.7	24.6	21.6
85°	40.0	33.9	30.8	27.7	24.6	24.6	21.6	18.5	15.4	12.3	12.3
87.5°	12.3	12.3	9.2	9.2	9.2	9.2	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7
2.5°	2202.3	2205.3	2199.2	2205.3	2199.2	2202.3	2196.1	2202.3	2196.1	2202.3	2189.9
5°	2180.7	2180.7	2171.5	2177.6	2171.5	2174.5	2162.2	2165.3	2159.1	2165.3	2153.0
7.5°	2143.7	2146.8	2131.4	2137.6	2128.3	2128.3	2119.1	2122.2	2112.9	2116.0	2106.8
10°	2100.6	2097.5	2082.1	2088.3	2076.0	2076.0	2066.7	2066.7	2054.4	2057.5	2045.2
12.5°	2039.0	2035.9	2017.5	2023.6	2011.3	2011.3	2002.1	2002.1	1989.7	1995.9	1983.6
15°	1968.2	1965.1	1946.6	1949.7	1937.4	1937.4	1925.1	1928.1	1918.9	1925.1	1912.7
17.5°	1888.1	1885.0	1866.5	1869.6	1854.2	1857.3	1848.1	1845.0	1838.8	1841.9	1832.7
20°	1804.9	1798.8	1780.3	1783.4	1777.2	1768.0	1761.8	1764.9	1758.7	1764.9	1755.7
22.5°	1718.7	1706.4	1691.0	1691.0	1684.8	1684.8	1675.6	1681.7	1669.4	1678.6	1672.5
25°	1620.1	1610.9	1598.6	1604.7	1592.4	1592.4	1583.2	1586.2	1580.1	1586.2	1580.1
27.5°	1524.6	1518.5	1500.0	1506.2	1496.9	1500.0	1490.8	1493.8	1490.8	1496.9	1490.8
30°	1423.0	1419.9	1407.6	1407.6	1404.5	1401.4	1398.4	1398.4	1395.3	1404.5	1398.4
32.5°	1327.5	1318.3	1306.0	1315.2	1299.8	1309.0	1302.9	1309.0	1302.9	1309.0	1306.0
35°	1229.0	1225.9	1210.5	1213.6	1210.5	1210.5	1207.4	1207.4	1207.4	1216.6	1216.6
37.5°	1124.2	1121.2	1111.9	1115.0	1108.8	1105.8	1105.8	1111.9	1111.9	1118.1	1118.1
40°	1022.6	1025.7	1016.4	1016.4	1013.4	1013.4	1013.4	1019.5	1016.4	1022.6	1019.5
42.5°	920.9	920.9	911.7	914.8	911.7	914.8	914.8	920.9	920.9	924.0	920.9
45°	825.5	825.5	822.4	825.5	819.3	822.4	819.3	825.5	822.4	825.5	825.5
47.5°	730.0	730.0	730.0	726.9	726.9	726.9	726.9	726.9	723.8	730.0	726.9
50°	640.7	643.7	640.7	640.7	637.6	640.7	637.6	637.6	631.4	634.5	634.5
52.5°	560.6	560.6	554.4	554.4	554.4	551.3	551.3	551.3	548.3	548.3	542.1
55°	483.6	483.6	477.4	477.4	474.3	471.3	468.2	468.2	458.9	458.9	449.7
57.5°	412.7	409.7	400.4	400.4	394.3	391.2	388.1	385.0	378.9	372.7	369.6
60°	348.1	341.9	335.7	332.6	326.5	320.3	314.2	308.0	301.8	298.8	295.7
62.5°	286.4	277.2	271.0	268.0	261.8	252.6	246.4	240.2	234.1	231.0	224.8
65°	231.0	221.8	212.5	209.4	203.3	197.1	187.9	181.7	175.6	172.5	172.5
67.5°	181.7	172.5	160.2	160.2	154.0	147.8	141.7	135.5	132.4	135.5	135.5
70°	135.5	129.4	120.1	117.0	110.9	104.7	101.6	101.6	101.6	104.7	101.6
72.5°	101.6	92.4	86.2	83.2	80.1	77.0	77.0	77.0	73.9	77.0	77.0
75°	70.8	64.7	58.5	58.5	55.4	55.4	55.4	55.4	55.4	55.4	55.4
77.5°	49.3	43.1	40.0	40.0	40.0	37.0	37.0	37.0	37.0	37.0	37.0
80°	30.8	30.8	27.7	27.7	24.6	24.6	24.6	24.6	24.6	24.6	24.6
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°	9.2	9.2	9.2	9.2	9.2	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: P252513

CATALOG NUMBER: LD6B50D010TE EU6B30509035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7
2.5°	2189.9	2199.2	2186.9	2196.1	2193.0	2189.9	2183.8	2196.1
5°	2153.0	2156.1	2143.7	2156.1	2153.0	2146.8	2140.7	2153.0
7.5°	2100.6	2109.9	2094.5	2106.8	2103.7	2097.5	2091.4	2103.7
10°	2042.1	2051.3	2039.0	2048.3	2048.3	2042.1	2032.9	2045.2
12.5°	1977.4	1983.6	1971.3	1983.6	1980.5	1974.3	1971.3	1980.5
15°	1906.6	1915.8	1903.5	1912.7	1909.7	1906.6	1903.5	1912.7
17.5°	1829.6	1838.8	1829.6	1838.8	1838.8	1829.6	1826.5	1832.7
20°	1752.6	1758.7	1749.5	1758.7	1755.7	1755.7	1749.5	1758.7
22.5°	1666.3	1675.6	1669.4	1675.6	1672.5	1672.5	1669.4	1675.6
25°	1580.1	1589.3	1580.1	1589.3	1586.2	1586.2	1580.1	1595.5
27.5°	1493.8	1500.0	1490.8	1503.1	1500.0	1493.8	1496.9	1500.0
30°	1401.4	1407.6	1401.4	1410.7	1410.7	1410.7	1404.5	1410.7
32.5°	1309.0	1318.3	1309.0	1318.3	1315.2	1315.2	1312.1	1318.3
35°	1216.6	1219.7	1213.6	1222.8	1222.8	1225.9	1219.7	1229.0
37.5°	1121.2	1124.2	1121.2	1124.2	1130.4	1121.2	1127.3	1130.4
40°	1022.6	1028.8	1025.7	1028.8	1028.8	1031.8	1028.8	1031.8
42.5°	924.0	930.2	924.0	933.3	930.2	930.2	933.3	933.3
45°	822.4	831.6	825.5	831.6	834.7	831.6	831.6	837.8
47.5°	726.9	733.1	730.0	733.1	733.1	733.1	733.1	739.2
50°	631.4	634.5	634.5	637.6	637.6	640.7	634.5	637.6
52.5°	535.9	542.1	542.1	542.1	539.0	542.1	542.1	542.1
55°	449.7	452.8	446.6	452.8	452.8	449.7	449.7	455.9
57.5°	366.5	366.5	366.5	366.5	366.5	363.5	366.5	366.5
60°	289.5	292.6	289.5	289.5	289.5	289.5	286.4	292.6
62.5°	224.8	224.8	221.8	224.8	224.8	224.8	227.9	227.9
65°	175.6	178.6	175.6	178.6	178.6	178.6	178.6	181.7
67.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6
70°	104.7	104.7	104.7	107.8	104.7	104.7	104.7	107.8
72.5°	77.0	77.0	77.0	77.0	77.0	77.0	80.1	80.1
75°	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
77.5°	37.0	37.0	37.0	40.0	37.0	40.0	37.0	37.0
80°	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
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)