

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: P252390

Luminaire Tested: **LD6B40D010 EU6B30508035 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252390
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: LD6B40D010 EU6B30508035 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3871.0 lumens
Efficiency: N/A
Efficacy: 90.0 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

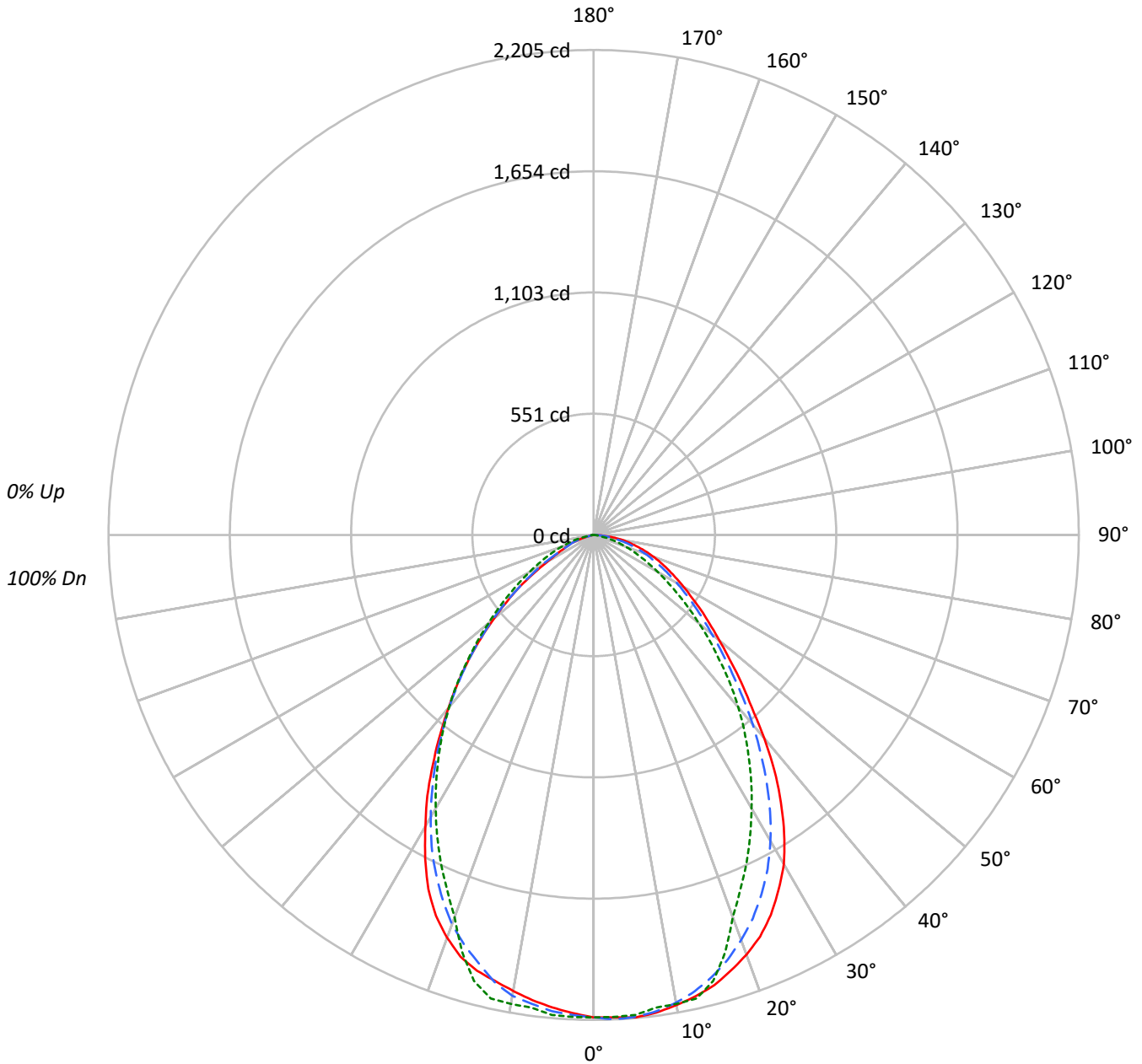
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44																			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	143092	143092	143092
5°	144202	143455	141216
10°	143796	143418	139450
15°	143142	141791	138522
20°	141008	128351	135273
25°	137175	118315	127953
30°	130251	108149	115230
35°	118200	97779	101411
40°	102616	87090	87337
45°	87513	74900	74116
50°	75747	63313	59842
55°	67712	52811	46328
60°	61705	43855	31224
65°	57612	36061	23310
70°	54879	29337	19552
75°	51700	20821	6453
80°	49217	10708	2142
85°	40497	6363	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.1	5.4
10°-20°	579.3	15.0
20°-30°	799.6	20.7
30°-40°	813.7	21.0
40°-50°	653.9	16.9
50°-60°	434.8	11.2
60°-70°	247.8	6.4
70°-80°	111.3	2.9
80°-90°	23.4	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°	1586.0	41.0
0°-40°	2399.7	62.0
0°-60°	3488.5	90.1
0°-90°	3871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3871.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2193	2193	2193	2193	2193	
5°	2202	2199	2190	2173	2156	209
15°	2119	2079	2099	2017	2051	596
25°	1906	1803	1644	1698	1778	873
35°	1484	1370	1228	1250	1273	922
45°	948	892	812	803	803	736
55°	595	556	464	413	407	535
65°	373	333	234	151	151	372
75°	205	171	83	34	26	219
85°	54	37	8	3	0	64
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°	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3
2.5°	2196.2	2207.6	2204.7	2201.9	2204.7	2201.9	2196.2	2196.2	2190.5	2190.5	2204.7
5°	2201.9	2207.6	2204.7	2201.9	2201.9	2204.7	2193.3	2193.3	2187.6	2184.8	2199.0
7.5°	2190.5	2199.0	2193.3	2193.3	2190.5	2193.3	2181.9	2181.9	2173.4	2170.6	2184.8
10°	2170.6	2181.9	2176.2	2176.2	2176.2	2170.6	2164.9	2162.0	2153.5	2150.6	2159.2
12.5°	2147.8	2156.3	2153.5	2147.8	2147.8	2147.8	2136.4	2133.5	2122.1	2116.4	2125.0
15°	2119.3	2125.0	2122.1	2119.3	2113.6	2113.6	2102.2	2096.5	2085.1	2073.7	2079.4
17.5°	2076.6	2085.1	2079.4	2076.6	2068.0	2068.0	2056.6	2050.9	2033.8	2022.4	2025.3
20°	2031.0	2033.8	2031.0	2025.3	2016.7	2013.9	2002.5	1991.1	1976.9	1962.6	1959.8
22.5°	1976.9	1979.7	1971.2	1965.5	1956.9	1954.1	1939.8	1931.3	1908.5	1891.4	1888.6
25°	1905.6	1908.5	1908.5	1894.2	1888.6	1882.9	1868.6	1854.4	1834.4	1811.6	1803.1
27.5°	1820.2	1828.7	1823.0	1808.8	1797.4	1794.6	1780.3	1768.9	1743.3	1723.3	1711.9
30°	1729.0	1726.2	1723.3	1714.8	1697.7	1694.9	1680.6	1666.4	1646.4	1620.8	1606.6
32.5°	1612.2	1612.2	1609.4	1600.9	1583.8	1578.1	1566.7	1549.6	1526.8	1506.9	1492.6
35°	1484.1	1486.9	1484.1	1467.0	1455.6	1449.9	1444.2	1424.2	1404.3	1381.5	1370.1
37.5°	1350.2	1341.6	1344.5	1330.2	1316.0	1321.7	1304.6	1296.1	1273.3	1256.2	1244.8
40°	1204.9	1210.6	1199.2	1193.5	1185.0	1176.4	1176.4	1162.2	1150.8	1130.9	1125.2
42.5°	1062.5	1071.0	1068.2	1062.5	1051.1	1053.9	1039.7	1034.0	1019.8	1011.2	1002.7
45°	948.5	948.5	948.5	942.9	940.0	934.3	925.8	917.2	908.7	897.3	891.6
47.5°	837.5	837.5	840.3	834.6	828.9	826.1	820.4	820.4	806.1	794.7	789.0
50°	746.3	746.3	746.3	740.6	734.9	734.9	729.2	723.5	715.0	706.4	700.7
52.5°	663.7	663.7	663.7	658.0	655.2	652.3	649.5	646.6	635.2	629.5	623.8
55°	595.3	592.5	592.5	589.6	583.9	583.9	581.1	575.4	566.9	558.3	555.5
57.5°	527.0	529.8	527.0	527.0	521.3	521.3	515.6	512.7	504.2	498.5	492.8
60°	472.9	472.9	472.9	470.0	464.3	467.2	461.5	458.6	450.1	441.5	435.8
62.5°	418.7	421.6	421.6	418.7	413.0	413.0	410.2	407.3	398.8	390.2	381.7
65°	373.2	373.2	373.2	370.3	367.5	367.5	364.6	361.8	353.2	341.8	333.3
67.5°	330.4	327.6	327.6	327.6	324.7	321.9	319.0	316.2	307.6	299.1	287.7
70°	287.7	287.7	287.7	284.8	279.2	282.0	279.2	276.3	267.8	259.2	250.7
72.5°	247.8	247.8	245.0	242.1	242.1	239.3	239.3	236.4	227.9	216.5	207.9
75°	205.1	205.1	205.1	205.1	199.4	202.2	196.5	193.7	188.0	179.5	170.9
77.5°	168.1	168.1	168.1	165.2	162.4	162.4	159.5	156.7	148.1	142.4	131.0
80°	131.0	131.0	131.0	131.0	128.2	125.3	122.5	119.6	113.9	105.4	96.8
82.5°	96.8	96.8	94.0	94.0	94.0	91.2	88.3	85.5	79.8	74.1	68.4
85°	54.1	57.0	57.0	51.3	54.1	51.3	51.3	45.6	45.6	39.9	37.0
87.5°	19.9	17.1	17.1	17.1	17.1	17.1	17.1	14.2	14.2	14.2	11.4
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°	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3
2.5°	2193.3	2190.5	2201.9	2201.9	2184.8	2193.3	2196.2	2190.5	2190.5	2193.3	2184.8
5°	2187.6	2181.9	2193.3	2196.2	2179.1	2187.6	2190.5	2184.8	2187.6	2190.5	2179.1
7.5°	2167.7	2167.7	2176.2	2179.1	2162.0	2170.6	2170.6	2164.9	2167.7	2167.7	2159.2
10°	2147.8	2139.2	2147.8	2147.8	2133.5	2136.4	2142.1	2139.2	2150.6	2164.9	2164.9
12.5°	2110.7	2102.2	2116.4	2116.4	2107.9	2119.3	2133.5	2142.1	2153.5	2159.2	2142.1
15°	2065.2	2068.0	2093.6	2113.6	2105.0	2122.1	2136.4	2130.7	2116.4	2099.3	2073.7
17.5°	2005.3	1996.8	2019.6	2031.0	2019.6	2025.3	2036.7	2025.3	2002.5	1988.2	1954.1
20°	1937.0	1914.2	1914.2	1908.5	1888.6	1888.6	1885.7	1865.8	1857.2	1848.7	1834.4
22.5°	1860.1	1834.4	1825.9	1808.8	1791.7	1788.9	1780.3	1760.4	1749.0	1743.3	1726.2
25°	1771.8	1749.0	1734.7	1717.6	1692.0	1686.3	1677.8	1657.8	1652.1	1643.6	1629.3
27.5°	1680.6	1652.1	1632.2	1615.1	1592.3	1589.5	1572.4	1558.1	1546.7	1541.0	1529.6
30°	1575.2	1543.9	1529.6	1506.9	1489.8	1484.1	1469.8	1449.9	1441.3	1435.6	1427.1
32.5°	1458.4	1432.8	1418.6	1398.6	1375.8	1378.7	1361.6	1344.5	1338.8	1333.1	1324.6
35°	1344.5	1318.9	1301.8	1284.7	1270.4	1264.7	1253.3	1239.1	1230.5	1227.7	1222.0
37.5°	1219.2	1199.2	1185.0	1167.9	1156.5	1150.8	1145.1	1130.9	1125.2	1125.2	1113.8
40°	1096.7	1079.6	1068.2	1059.6	1045.4	1042.5	1036.9	1028.3	1025.5	1022.6	1014.1
42.5°	985.6	962.8	954.2	948.5	940.0	934.3	931.5	925.8	922.9	920.1	911.5
45°	880.2	860.2	851.7	846.0	837.5	834.6	831.8	823.2	817.5	811.8	809.0
47.5°	777.6	763.4	760.5	746.3	740.6	734.9	729.2	723.5	720.7	717.8	706.4
50°	689.3	680.8	666.5	658.0	652.3	649.5	638.1	629.5	626.7	623.8	615.3
52.5°	609.6	598.2	589.6	575.4	572.5	566.9	561.2	549.8	544.1	541.2	532.7
55°	538.4	529.8	518.4	507.0	498.5	495.6	487.1	475.7	470.0	464.3	458.6
57.5°	478.5	464.3	452.9	441.5	435.8	427.3	418.7	413.0	404.5	395.9	387.4
60°	421.6	410.2	395.9	384.5	378.8	373.2	361.8	353.2	344.7	336.1	327.6
62.5°	367.5	356.1	341.8	330.4	324.7	319.0	307.6	299.1	290.5	282.0	270.6
65°	319.0	307.6	296.2	284.8	279.2	273.5	262.1	250.7	242.1	233.6	222.2
67.5°	279.2	264.9	253.5	242.1	236.4	230.7	219.3	210.8	199.4	190.8	179.5
70°	236.4	225.0	216.5	205.1	199.4	193.7	182.3	170.9	162.4	153.8	142.4
72.5°	199.4	185.2	176.6	165.2	159.5	156.7	145.3	136.7	128.2	116.8	108.2
75°	159.5	148.1	136.7	128.2	122.5	119.6	108.2	99.7	91.2	82.6	74.1
77.5°	122.5	113.9	102.5	94.0	88.3	85.5	74.1	65.5	57.0	51.3	42.7
80°	91.2	79.8	74.1	65.5	62.7	57.0	51.3	42.7	37.0	28.5	22.8
82.5°	62.7	54.1	48.4	42.7	39.9	37.0	31.3	25.6	19.9	17.1	14.2
85°	34.2	28.5	25.6	22.8	19.9	19.9	17.1	14.2	11.4	8.5	5.7
87.5°	11.4	8.5	8.5	8.5	8.5	5.7	5.7	5.7	2.8	2.8	2.8
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3
2.5°	2190.5	2190.5	2190.5	2187.6	2187.6	2187.6	2184.8	2196.2	2184.8	2181.9	2190.5
5°	2187.6	2181.9	2181.9	2181.9	2181.9	2179.1	2176.2	2181.9	2173.4	2170.6	2170.6
7.5°	2170.6	2167.7	2167.7	2164.9	2162.0	2159.2	2156.3	2159.2	2150.6	2147.8	2147.8
10°	2173.4	2167.7	2167.7	2159.2	2153.5	2144.9	2136.4	2139.2	2127.8	2119.3	2119.3
12.5°	2139.2	2125.0	2116.4	2107.9	2102.2	2099.3	2087.9	2093.6	2082.2	2079.4	2079.4
15°	2062.3	2045.2	2031.0	2025.3	2025.3	2019.6	2011.0	2022.4	2016.7	2019.6	2033.8
17.5°	1942.7	1934.1	1925.6	1922.7	1925.6	1931.3	1937.0	1954.1	1954.1	1962.6	1976.9
20°	1837.3	1831.6	1837.3	1837.3	1840.1	1851.5	1862.9	1877.2	1882.9	1891.4	1911.3
22.5°	1734.7	1734.7	1740.4	1749.0	1746.1	1766.1	1768.9	1794.6	1794.6	1811.6	1828.7
25°	1635.0	1635.0	1640.7	1643.6	1649.3	1660.7	1672.1	1692.0	1697.7	1714.8	1729.0
27.5°	1538.2	1535.3	1535.3	1538.2	1543.9	1558.1	1563.8	1586.6	1595.2	1606.6	1620.8
30°	1429.9	1427.1	1432.8	1438.5	1435.6	1449.9	1458.4	1475.5	1481.2	1492.6	1504.0
32.5°	1327.4	1327.4	1327.4	1333.1	1333.1	1344.5	1344.5	1364.4	1364.4	1373.0	1384.4
35°	1222.0	1222.0	1224.9	1227.7	1230.5	1233.4	1236.2	1247.6	1250.5	1253.3	1259.0
37.5°	1122.3	1119.5	1122.3	1122.3	1116.6	1128.0	1128.0	1139.4	1130.9	1139.4	1142.2
40°	1019.8	1019.8	1016.9	1016.9	1016.9	1022.6	1016.9	1025.5	1019.8	1025.5	1022.6
42.5°	914.4	914.4	908.7	914.4	911.5	911.5	911.5	917.2	908.7	914.4	917.2
45°	809.0	806.1	806.1	803.3	803.3	803.3	806.1	806.1	803.3	809.0	809.0
47.5°	706.4	703.6	703.6	703.6	703.6	706.4	697.9	703.6	697.9	697.9	697.9
50°	618.1	615.3	612.4	609.6	606.7	606.7	603.9	603.9	598.2	595.3	592.5
52.5°	532.7	529.8	524.1	524.1	521.3	518.4	509.9	509.9	501.3	498.5	498.5
55°	455.8	447.2	444.4	438.7	438.7	433.0	427.3	421.6	413.0	407.3	407.3
57.5°	384.5	376.0	370.3	367.5	364.6	358.9	347.5	344.7	333.3	330.4	327.6
60°	321.9	313.3	304.8	299.1	296.2	287.7	276.3	270.6	264.9	256.4	247.8
62.5°	262.1	253.5	242.1	239.3	233.6	225.0	216.5	207.9	202.2	193.7	188.0
65°	210.8	202.2	193.7	188.0	182.3	173.8	165.2	156.7	151.0	148.1	145.3
67.5°	170.9	159.5	151.0	148.1	142.4	136.7	128.2	125.3	119.6	119.6	119.6
70°	133.9	125.3	116.8	113.9	111.1	105.4	99.7	99.7	99.7	99.7	99.7
72.5°	99.7	94.0	85.5	82.6	79.8	76.9	71.2	74.1	71.2	71.2	71.2
75°	62.7	57.0	51.3	48.4	45.6	42.7	39.9	37.0	34.2	31.3	31.3
77.5°	34.2	28.5	25.6	22.8	22.8	19.9	17.1	17.1	14.2	14.2	14.2
80°	19.9	17.1	14.2	11.4	11.4	8.5	8.5	8.5	8.5	5.7	5.7
82.5°	11.4	8.5	5.7	5.7	5.7	5.7	2.8	2.8	2.8	2.8	2.8
85°	5.7	5.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	0.0
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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: P252390

CATALOG NUMBER: LD6B40D010 EU6B30508035 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3	2193.3
2.5°	2176.2	2184.8	2176.2	2184.8	2184.8	2184.8	2184.8	2176.2
5°	2162.0	2167.7	2159.2	2164.9	2167.7	2164.9	2164.9	2156.3
7.5°	2136.4	2142.1	2133.5	2142.1	2144.9	2142.1	2139.2	2133.5
10°	2110.7	2113.6	2105.0	2110.7	2116.4	2116.4	2113.6	2105.0
12.5°	2070.9	2079.4	2070.9	2076.6	2082.2	2085.1	2085.1	2076.6
15°	2025.3	2039.5	2033.8	2042.4	2050.9	2053.8	2053.8	2050.9
17.5°	1979.7	1993.9	1985.4	1999.6	2008.2	2013.9	2016.7	2011.0
20°	1914.2	1931.3	1925.6	1937.0	1948.4	1956.9	1956.9	1948.4
22.5°	1828.7	1851.5	1848.7	1857.2	1871.5	1874.3	1880.0	1874.3
25°	1734.7	1751.8	1749.0	1757.5	1774.6	1774.6	1777.5	1777.5
27.5°	1626.5	1643.6	1640.7	1646.4	1657.8	1660.7	1663.5	1657.8
30°	1509.7	1518.2	1518.2	1526.8	1535.3	1538.2	1538.2	1529.6
32.5°	1381.5	1392.9	1398.6	1395.8	1404.3	1410.0	1407.2	1407.2
35°	1264.7	1267.6	1270.4	1273.3	1276.1	1281.8	1276.1	1273.3
37.5°	1139.4	1147.9	1142.2	1147.9	1153.6	1150.8	1147.9	1147.9
40°	1025.5	1028.3	1022.6	1028.3	1031.2	1031.2	1031.2	1025.5
42.5°	911.5	917.2	911.5	917.2	917.2	917.2	917.2	914.4
45°	797.6	803.3	803.3	806.1	806.1	803.3	803.3	803.3
47.5°	692.2	697.9	692.2	697.9	700.7	695.0	695.0	695.0
50°	592.5	589.6	589.6	592.5	592.5	592.5	592.5	589.6
52.5°	489.9	492.8	492.8	492.8	495.6	492.8	495.6	495.6
55°	401.6	401.6	401.6	404.5	401.6	401.6	404.5	407.3
57.5°	321.9	319.0	316.2	316.2	319.0	316.2	316.2	316.2
60°	247.8	245.0	242.1	242.1	242.1	242.1	242.1	239.3
62.5°	185.2	185.2	185.2	188.0	188.0	188.0	188.0	190.8
65°	148.1	148.1	148.1	148.1	148.1	148.1	148.1	151.0
67.5°	119.6	119.6	119.6	122.5	122.5	122.5	122.5	122.5
70°	99.7	99.7	102.5	99.7	102.5	102.5	102.5	102.5
72.5°	68.4	68.4	68.4	68.4	68.4	65.5	68.4	65.5
75°	28.5	28.5	28.5	28.5	28.5	28.5	28.5	25.6
77.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
80°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	2.8	2.8	2.8	2.8	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)