

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: P252392

Luminaire Tested: **LD6B40D010 EU6B30508050 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252392
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 EU6B30508050 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3911.0 lumens
Efficiency: N/A
Efficacy: 90.9 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

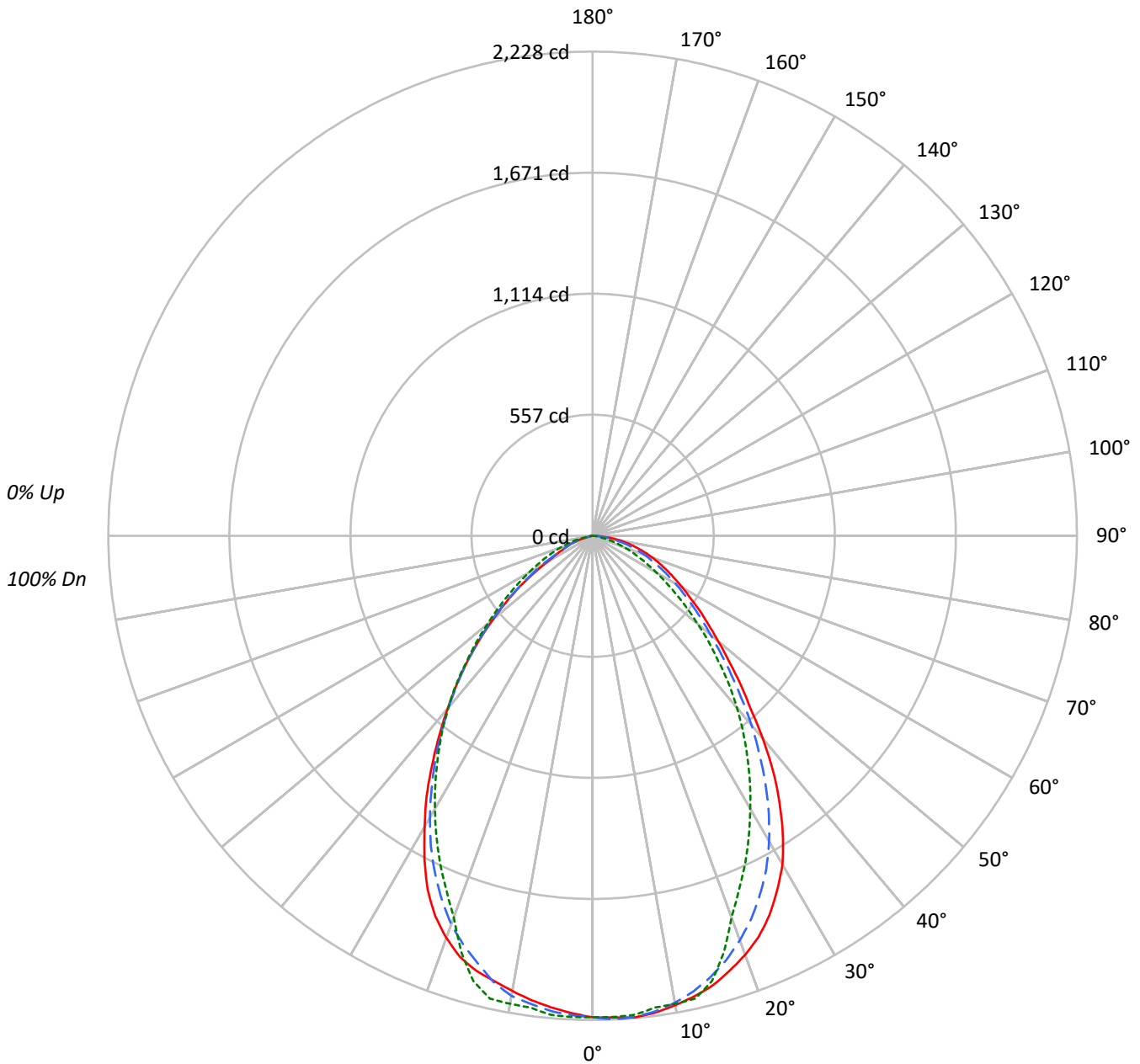
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	144573	144573	144573
5°	145689	144936	142676
10°	145280	144896	140894
15°	144621	143257	139954
20°	142465	129677	136668
25°	138593	119538	129271
30°	131600	109271	116420
35°	119418	98791	102454
40°	103681	87993	88240
45°	88426	75675	74882
50°	76528	63973	60461
55°	68417	53357	46805
60°	62331	44311	31537
65°	58198	36432	23542
70°	55451	29643	19762
75°	52229	21048	6529
80°	49743	10820	2179
85°	40946	6438	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.2	5.4
10°-20°	585.3	15.0
20°-30°	807.9	20.7
30°-40°	822.1	21.0
40°-50°	660.7	16.9
50°-60°	439.3	11.2
60°-70°	250.3	6.4
70°-80°	112.4	2.9
80°-90°	23.7	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°	1602.4	41.0
0°-40°	2424.5	62.0
0°-60°	3524.5	90.1
0°-90°	3911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3911.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2216	2216	2216	2216	2216	
5°	2225	2222	2213	2196	2179	211
15°	2141	2101	2121	2038	2072	603
25°	1925	1822	1661	1715	1796	882
35°	1499	1384	1240	1263	1286	932
45°	958	901	820	812	812	743
55°	602	561	469	417	412	540
65°	377	337	236	152	152	376
75°	207	173	84	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°	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0
2.5°	2218.9	2230.4	2227.5	2224.6	2227.5	2224.6	2218.9	2218.9	2213.1	2213.1	2227.5
5°	2224.6	2230.4	2227.5	2224.6	2224.6	2227.5	2216.0	2216.0	2210.2	2207.4	2221.8
7.5°	2213.1	2221.8	2216.0	2216.0	2213.1	2216.0	2204.5	2204.5	2195.9	2193.0	2207.4
10°	2193.0	2204.5	2198.7	2198.7	2198.7	2193.0	2187.2	2184.3	2175.7	2172.8	2181.5
12.5°	2170.0	2178.6	2175.7	2170.0	2170.0	2170.0	2158.4	2155.6	2144.1	2138.3	2146.9
15°	2141.2	2146.9	2144.1	2141.2	2135.4	2135.4	2123.9	2118.2	2106.6	2095.1	2100.9
17.5°	2098.0	2106.6	2100.9	2098.0	2089.4	2089.4	2077.9	2072.1	2054.8	2043.3	2046.2
20°	2052.0	2054.8	2052.0	2046.2	2037.6	2034.7	2023.2	2011.7	1997.3	1982.9	1980.0
22.5°	1997.3	2000.2	1991.5	1985.8	1977.1	1974.3	1959.9	1951.2	1928.2	1910.9	1908.1
25°	1925.3	1928.2	1928.2	1913.8	1908.1	1902.3	1887.9	1873.5	1853.4	1830.4	1821.7
27.5°	1839.0	1847.6	1841.9	1827.5	1816.0	1813.1	1798.7	1787.2	1761.3	1741.1	1729.6
30°	1746.9	1744.0	1741.1	1732.5	1715.2	1712.4	1698.0	1683.6	1663.4	1637.5	1623.2
32.5°	1628.9	1628.9	1626.0	1617.4	1600.1	1594.4	1582.9	1565.6	1542.6	1522.4	1508.0
35°	1499.4	1502.3	1499.4	1482.1	1470.6	1464.9	1459.1	1439.0	1418.8	1395.8	1384.3
37.5°	1364.1	1355.5	1358.4	1344.0	1329.6	1335.4	1318.1	1309.5	1286.4	1269.2	1257.7
40°	1217.4	1223.1	1211.6	1205.9	1197.2	1188.6	1188.6	1174.2	1162.7	1142.5	1136.8
42.5°	1073.5	1082.1	1079.2	1073.5	1062.0	1064.8	1050.4	1044.7	1030.3	1021.7	1013.0
45°	958.4	958.4	958.4	952.6	949.7	944.0	935.3	926.7	918.1	906.5	900.8
47.5°	846.1	846.1	849.0	843.2	837.5	834.6	828.8	828.8	814.5	802.9	797.2
50°	754.0	754.0	754.0	748.3	742.5	742.5	736.7	731.0	722.4	713.7	708.0
52.5°	670.6	670.6	670.6	664.8	661.9	659.0	656.2	653.3	641.8	636.0	630.3
55°	601.5	598.6	598.6	595.7	590.0	590.0	587.1	581.3	572.7	564.1	561.2
57.5°	532.4	535.3	532.4	532.4	526.7	526.7	520.9	518.0	509.4	503.6	497.9
60°	477.7	477.7	477.7	474.9	469.1	472.0	466.2	463.3	454.7	446.1	440.3
62.5°	423.1	425.9	425.9	423.1	417.3	417.3	414.4	411.5	402.9	394.3	385.6
65°	377.0	377.0	377.0	374.1	371.3	371.3	368.4	365.5	356.9	345.4	336.7
67.5°	333.8	331.0	331.0	331.0	328.1	325.2	322.3	319.5	310.8	302.2	290.7
70°	290.7	290.7	290.7	287.8	282.0	284.9	282.0	279.2	270.5	261.9	253.3
72.5°	250.4	250.4	247.5	244.6	244.6	241.7	241.7	238.9	230.2	218.7	210.1
75°	207.2	207.2	207.2	207.2	201.5	204.3	198.6	195.7	189.9	181.3	172.7
77.5°	169.8	169.8	169.8	166.9	164.0	164.0	161.2	158.3	149.7	143.9	132.4
80°	132.4	132.4	132.4	132.4	129.5	126.6	123.8	120.9	115.1	106.5	97.8
82.5°	97.8	97.8	95.0	95.0	95.0	92.1	89.2	86.3	80.6	74.8	69.1
85°	54.7	57.6	57.6	51.8	54.7	51.8	51.8	46.0	46.0	40.3	37.4
87.5°	20.1	17.3	17.3	17.3	17.3	17.3	17.3	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°	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0
2.5°	2216.0	2213.1	2224.6	2224.6	2207.4	2216.0	2218.9	2213.1	2213.1	2216.0	2207.4
5°	2210.2	2204.5	2216.0	2218.9	2201.6	2210.2	2213.1	2207.4	2210.2	2213.1	2201.6
7.5°	2190.1	2190.1	2198.7	2201.6	2184.3	2193.0	2193.0	2187.2	2190.1	2190.1	2181.5
10°	2170.0	2161.3	2170.0	2170.0	2155.6	2158.4	2164.2	2161.3	2172.8	2187.2	2187.2
12.5°	2132.5	2123.9	2138.3	2138.3	2129.7	2141.2	2155.6	2164.2	2175.7	2181.5	2164.2
15°	2086.5	2089.4	2115.3	2135.4	2126.8	2144.1	2158.4	2152.7	2138.3	2121.0	2095.1
17.5°	2026.1	2017.4	2040.5	2052.0	2040.5	2046.2	2057.7	2046.2	2023.2	2008.8	1974.3
20°	1957.0	1934.0	1934.0	1928.2	1908.1	1908.1	1905.2	1885.0	1876.4	1867.8	1853.4
22.5°	1879.3	1853.4	1844.8	1827.5	1810.2	1807.3	1798.7	1778.6	1767.0	1761.3	1744.0
25°	1790.1	1767.0	1752.7	1735.4	1709.5	1703.7	1695.1	1675.0	1669.2	1660.6	1646.2
27.5°	1698.0	1669.2	1649.1	1631.8	1608.8	1605.9	1588.6	1574.2	1562.7	1557.0	1545.4
30°	1591.5	1559.8	1545.4	1522.4	1505.2	1499.4	1485.0	1464.9	1456.2	1450.5	1441.8
32.5°	1473.5	1447.6	1433.2	1413.1	1390.0	1392.9	1375.7	1358.4	1352.6	1346.9	1338.2
35°	1358.4	1332.5	1315.2	1297.9	1283.6	1277.8	1266.3	1251.9	1243.3	1240.4	1234.6
37.5°	1231.8	1211.6	1197.2	1180.0	1168.4	1162.7	1156.9	1142.5	1136.8	1136.8	1125.3
40°	1108.0	1090.7	1079.2	1070.6	1056.2	1053.3	1047.6	1038.9	1036.1	1033.2	1024.5
42.5°	995.8	972.7	964.1	958.4	949.7	944.0	941.1	935.3	932.4	929.6	920.9
45°	889.3	869.1	860.5	854.7	846.1	843.2	840.4	831.7	826.0	820.2	817.3
47.5°	785.7	771.3	768.4	754.0	748.3	742.5	736.7	731.0	728.1	725.2	713.7
50°	696.5	687.8	673.4	664.8	659.0	656.2	644.7	636.0	633.1	630.3	621.6
52.5°	615.9	604.4	595.7	581.3	578.5	572.7	567.0	555.4	549.7	546.8	538.2
55°	543.9	535.3	523.8	512.3	503.6	500.8	492.1	480.6	474.9	469.1	463.3
57.5°	483.5	469.1	457.6	446.1	440.3	431.7	423.1	417.3	408.7	400.0	391.4
60°	425.9	414.4	400.0	388.5	382.8	377.0	365.5	356.9	348.2	339.6	331.0
62.5°	371.3	359.7	345.4	333.8	328.1	322.3	310.8	302.2	293.5	284.9	273.4
65°	322.3	310.8	299.3	287.8	282.0	276.3	264.8	253.3	244.6	236.0	224.5
67.5°	282.0	267.6	256.1	244.6	238.9	233.1	221.6	213.0	201.5	192.8	181.3
70°	238.9	227.4	218.7	207.2	201.5	195.7	184.2	172.7	164.0	155.4	143.9
72.5°	201.5	187.1	178.4	166.9	161.2	158.3	146.8	138.1	129.5	118.0	109.4
75°	161.2	149.7	138.1	129.5	123.8	120.9	109.4	100.7	92.1	83.5	74.8
77.5°	123.8	115.1	103.6	95.0	89.2	86.3	74.8	66.2	57.6	51.8	43.2
80°	92.1	80.6	74.8	66.2	63.3	57.6	51.8	43.2	37.4	28.8	23.0
82.5°	63.3	54.7	48.9	43.2	40.3	37.4	31.7	25.9	20.1	17.3	14.4
85°	34.5	28.8	25.9	23.0	20.1	20.1	17.3	14.4	11.5	8.6	5.8
87.5°	11.5	8.6	8.6	8.6	8.6	5.8	5.8	5.8	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°	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0
2.5°	2213.1	2213.1	2213.1	2210.2	2210.2	2210.2	2207.4	2218.9	2207.4	2204.5	2213.1
5°	2210.2	2204.5	2204.5	2204.5	2204.5	2201.6	2198.7	2204.5	2195.9	2193.0	2193.0
7.5°	2193.0	2190.1	2190.1	2187.2	2184.3	2181.5	2178.6	2181.5	2172.8	2170.0	2170.0
10°	2195.9	2190.1	2190.1	2181.5	2175.7	2167.1	2158.4	2161.3	2149.8	2141.2	2141.2
12.5°	2161.3	2146.9	2138.3	2129.7	2123.9	2121.0	2109.5	2115.3	2103.8	2100.9	2100.9
15°	2083.6	2066.4	2052.0	2046.2	2046.2	2040.5	2031.8	2043.3	2037.6	2040.5	2054.8
17.5°	1962.7	1954.1	1945.5	1942.6	1945.5	1951.2	1957.0	1974.3	1974.3	1982.9	1997.3
20°	1856.3	1850.5	1856.3	1856.3	1859.1	1870.7	1882.2	1896.6	1902.3	1910.9	1931.1
22.5°	1752.7	1752.7	1758.4	1767.0	1764.2	1784.3	1787.2	1813.1	1813.1	1830.4	1847.6
25°	1651.9	1651.9	1657.7	1660.6	1666.3	1677.8	1689.3	1709.5	1715.2	1732.5	1746.9
27.5°	1554.1	1551.2	1551.2	1554.1	1559.8	1574.2	1580.0	1603.0	1611.6	1623.2	1637.5
30°	1444.7	1441.8	1447.6	1453.4	1450.5	1464.9	1473.5	1490.8	1496.5	1508.0	1519.5
32.5°	1341.1	1341.1	1341.1	1346.9	1346.9	1358.4	1358.4	1378.5	1378.5	1387.2	1398.7
35°	1234.6	1234.6	1237.5	1240.4	1243.3	1246.1	1249.0	1260.5	1263.4	1266.3	1272.0
37.5°	1133.9	1131.0	1133.9	1133.9	1128.1	1139.7	1139.7	1151.2	1142.5	1151.2	1154.0
40°	1030.3	1030.3	1027.4	1027.4	1027.4	1033.2	1027.4	1036.1	1030.3	1036.1	1033.2
42.5°	923.8	923.8	918.1	923.8	920.9	920.9	920.9	926.7	918.1	923.8	926.7
45°	817.3	814.5	814.5	811.6	811.6	811.6	814.5	814.5	811.6	817.3	817.3
47.5°	713.7	710.8	710.8	710.8	710.8	713.7	705.1	710.8	705.1	705.1	705.1
50°	624.5	621.6	618.8	615.9	613.0	613.0	610.1	610.1	604.4	601.5	598.6
52.5°	538.2	535.3	529.5	529.5	526.7	523.8	515.1	515.1	506.5	503.6	503.6
55°	460.5	451.8	449.0	443.2	443.2	437.4	431.7	425.9	417.3	411.5	411.5
57.5°	388.5	379.9	374.1	371.3	368.4	362.6	351.1	348.2	336.7	333.8	331.0
60°	325.2	316.6	307.9	302.2	299.3	290.7	279.2	273.4	267.6	259.0	250.4
62.5°	264.8	256.1	244.6	241.7	236.0	227.4	218.7	210.1	204.3	195.7	189.9
65°	213.0	204.3	195.7	189.9	184.2	175.6	166.9	158.3	152.5	149.7	146.8
67.5°	172.7	161.2	152.5	149.7	143.9	138.1	129.5	126.6	120.9	120.9	120.9
70°	135.3	126.6	118.0	115.1	112.2	106.5	100.7	100.7	100.7	100.7	100.7
72.5°	100.7	95.0	86.3	83.5	80.6	77.7	71.9	74.8	71.9	71.9	71.9
75°	63.3	57.6	51.8	48.9	46.0	43.2	40.3	37.4	34.5	31.7	31.7
77.5°	34.5	28.8	25.9	23.0	23.0	20.1	17.3	17.3	14.4	14.4	14.4
80°	20.1	17.3	14.4	11.5	11.5	8.6	8.6	8.6	8.6	5.8	5.8
82.5°	11.5	8.6	5.8	5.8	5.8	5.8	2.9	2.9	2.9	2.9	2.9
85°	5.8	5.8	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: P252392

CATALOG NUMBER: LD6B40D010 EU6B30508050 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0
2.5°	2198.7	2207.4	2198.7	2207.4	2207.4	2207.4	2207.4	2198.7
5°	2184.3	2190.1	2181.5	2187.2	2190.1	2187.2	2187.2	2178.6
7.5°	2158.4	2164.2	2155.6	2164.2	2167.1	2164.2	2161.3	2155.6
10°	2132.5	2135.4	2126.8	2132.5	2138.3	2138.3	2135.4	2126.8
12.5°	2092.3	2100.9	2092.3	2098.0	2103.8	2106.6	2106.6	2098.0
15°	2046.2	2060.6	2054.8	2063.5	2072.1	2075.0	2075.0	2072.1
17.5°	2000.2	2014.6	2005.9	2020.3	2028.9	2034.7	2037.6	2031.8
20°	1934.0	1951.2	1945.5	1957.0	1968.5	1977.1	1977.1	1968.5
22.5°	1847.6	1870.7	1867.8	1876.4	1890.8	1893.7	1899.4	1893.7
25°	1752.7	1769.9	1767.0	1775.7	1792.9	1792.9	1795.8	1795.8
27.5°	1643.3	1660.6	1657.7	1663.4	1675.0	1677.8	1680.7	1675.0
30°	1525.3	1533.9	1533.9	1542.6	1551.2	1554.1	1554.1	1545.4
32.5°	1395.8	1407.3	1413.1	1410.2	1418.8	1424.6	1421.7	1421.7
35°	1277.8	1280.7	1283.6	1286.4	1289.3	1295.1	1289.3	1286.4
37.5°	1151.2	1159.8	1154.0	1159.8	1165.6	1162.7	1159.8	1159.8
40°	1036.1	1038.9	1033.2	1038.9	1041.8	1041.8	1041.8	1036.1
42.5°	920.9	926.7	920.9	926.7	926.7	926.7	926.7	923.8
45°	805.8	811.6	811.6	814.5	814.5	811.6	811.6	811.6
47.5°	699.3	705.1	699.3	705.1	708.0	702.2	702.2	702.2
50°	598.6	595.7	595.7	598.6	598.6	598.6	598.6	595.7
52.5°	495.0	497.9	497.9	497.9	500.8	497.9	500.8	500.8
55°	405.8	405.8	405.8	408.7	405.8	405.8	408.7	411.5
57.5°	325.2	322.3	319.5	319.5	322.3	319.5	319.5	319.5
60°	250.4	247.5	244.6	244.6	244.6	244.6	244.6	241.7
62.5°	187.1	187.1	187.1	189.9	189.9	189.9	189.9	192.8
65°	149.7	149.7	149.7	149.7	149.7	149.7	149.7	152.5
67.5°	120.9	120.9	120.9	123.8	123.8	123.8	123.8	123.8
70°	100.7	100.7	103.6	100.7	103.6	103.6	103.6	103.6
72.5°	69.1	69.1	69.1	69.1	69.1	66.2	69.1	66.2
75°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	25.9
77.5°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
80°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
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)