

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: P252285

Luminaire Tested: **LD6B40D010 EU6B30508030 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B40D010 EU6B30508030 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3861.0 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

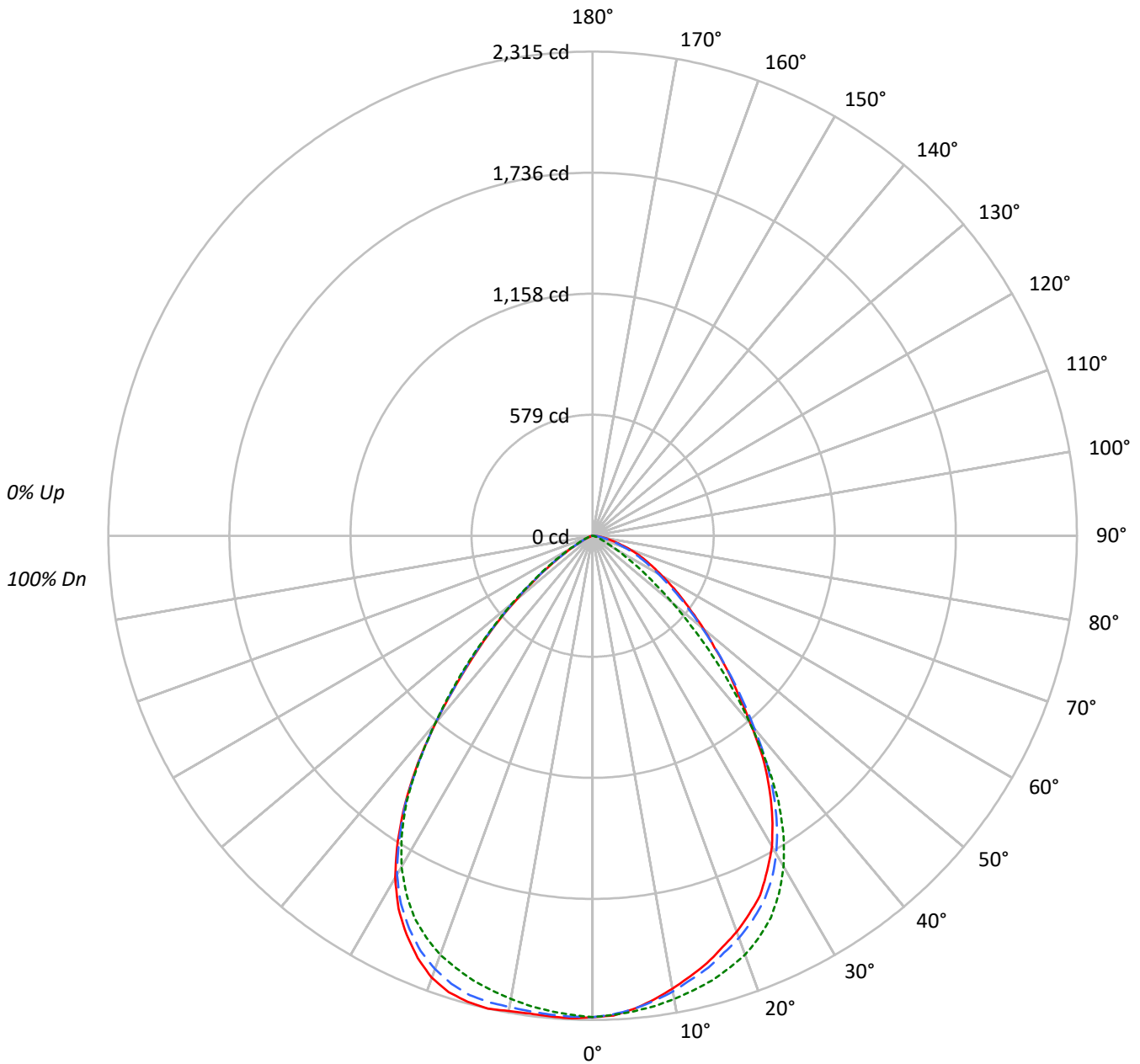
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	150145	150145	150145
5°	148714	149441	151085
10°	145651	148963	152832
15°	142865	148680	155820
20°	139904	148006	156115
25°	136455	145057	151464
30°	129189	137566	142177
35°	117324	123305	124412
40°	100129	99661	99184
45°	84117	74623	72317
50°	70246	50494	47957
55°	59124	30984	28140
60°	50053	16323	14144
65°	43332	8583	6870
70°	36052	5303	3720
75°	26619	3504	2092
80°	20889	2104	1052
85°	16618	2096	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.9	5.6
10°-20°	621.0	16.1
20°-30°	917.0	23.8
30°-40°	945.1	24.5
40°-50°	652.8	16.9
50°-60°	321.7	8.3
60°-70°	130.4	3.4
70°-80°	46.5	1.2
80°-90°	9.6	0.2
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°	1755.0	45.5
0°-40°	2700.1	69.9
0°-60°	3674.6	95.2
0°-90°	3861.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3861.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2301	2301	2301	2301	2301	
5°	2271	2271	2282	2299	2307	214
15°	2115	2137	2201	2274	2307	596
25°	1896	1932	2015	2074	2104	867
35°	1473	1509	1548	1556	1562	913
45°	912	917	809	798	784	705
55°	520	500	272	256	247	470
65°	281	253	56	44	44	279
75°	106	89	14	8	8	119
85°	22	17	3	0	0	27
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°	2301.4	2301.4	2301.4	2301.4	2301.4	2301.4	2301.4	2301.4	2301.4	2301.4	2301.4
2.5°	2295.8	2287.5	2293.1	2281.9	2295.8	2281.9	2284.7	2287.5	2284.7	2287.5	2290.3
5°	2270.8	2262.5	2270.8	2256.9	2270.8	2262.5	2262.5	2265.3	2265.3	2268.0	2270.8
7.5°	2237.5	2229.1	2237.5	2223.6	2240.2	2231.9	2231.9	2237.5	2234.7	2237.5	2243.0
10°	2198.6	2187.4	2195.8	2187.4	2204.1	2193.0	2198.6	2198.6	2198.6	2206.9	2212.5
12.5°	2156.9	2145.7	2156.9	2143.0	2159.6	2151.3	2154.1	2162.4	2165.2	2170.8	2173.5
15°	2115.2	2101.3	2106.8	2098.5	2115.2	2106.8	2109.6	2120.7	2120.7	2129.1	2137.4
17.5°	2062.4	2051.2	2062.4	2051.2	2065.1	2059.6	2065.1	2073.5	2073.5	2081.8	2090.2
20°	2015.1	2004.0	2012.3	2004.0	2020.7	2012.3	2015.1	2026.2	2029.0	2037.3	2045.7
22.5°	1956.7	1948.4	1954.0	1945.6	1962.3	1956.7	1959.5	1970.6	1973.4	1979.0	1992.9
25°	1895.6	1878.9	1887.3	1881.7	1898.4	1890.0	1895.6	1906.7	1912.3	1920.6	1931.7
27.5°	1806.6	1798.3	1803.9	1803.9	1817.8	1809.4	1812.2	1823.3	1831.7	1840.0	1853.9
30°	1714.9	1701.0	1706.6	1709.4	1720.5	1714.9	1720.5	1731.6	1734.4	1745.5	1756.6
32.5°	1598.2	1592.6	1603.7	1598.2	1603.7	1603.7	1606.5	1614.9	1620.4	1626.0	1639.9
35°	1473.1	1462.0	1473.1	1467.6	1481.5	1473.1	1481.5	1489.8	1489.8	1500.9	1509.2
37.5°	1336.9	1323.0	1328.6	1328.6	1334.1	1331.4	1331.4	1345.3	1348.0	1356.4	1364.7
40°	1175.7	1170.2	1181.3	1178.5	1181.3	1181.3	1184.1	1192.4	1197.9	1200.7	1203.5
42.5°	1031.2	1034.0	1036.7	1036.7	1036.7	1036.7	1036.7	1047.9	1045.1	1053.4	1056.2
45°	911.7	900.5	906.1	903.3	911.7	903.3	911.7	920.0	914.4	922.8	917.2
47.5°	789.4	789.4	789.4	786.6	792.1	789.4	794.9	797.7	797.7	797.7	794.9
50°	692.1	683.7	686.5	686.5	689.3	686.5	692.1	694.9	694.9	689.3	678.2
52.5°	597.6	594.8	594.8	600.4	600.4	597.6	597.6	597.6	597.6	589.2	583.7
55°	519.8	514.2	517.0	517.0	517.0	517.0	519.8	517.0	517.0	508.6	500.3
57.5°	450.3	444.7	444.7	444.7	447.5	444.7	444.7	444.7	441.9	433.6	422.5
60°	383.6	380.8	383.6	383.6	386.3	383.6	383.6	383.6	378.0	369.7	358.6
62.5°	328.0	328.0	328.0	330.8	330.8	328.0	328.0	325.2	322.4	311.3	300.2
65°	280.7	277.9	280.7	280.7	283.5	283.5	280.7	277.9	275.2	264.0	252.9
67.5°	233.5	230.7	233.5	233.5	236.3	233.5	233.5	233.5	225.1	219.6	208.5
70°	189.0	186.2	186.2	186.2	189.0	183.4	186.2	186.2	180.7	172.3	161.2
72.5°	144.5	144.5	144.5	144.5	144.5	144.5	141.8	141.8	136.2	127.9	122.3
75°	105.6	105.6	108.4	108.4	105.6	105.6	105.6	102.8	100.1	94.5	88.9
77.5°	77.8	77.8	77.8	77.8	75.0	75.0	75.0	72.3	69.5	66.7	61.1
80°	55.6	55.6	55.6	52.8	55.6	52.8	52.8	52.8	47.3	44.5	41.7
82.5°	38.9	36.1	36.1	36.1	36.1	36.1	36.1	33.4	33.4	30.6	27.8
85°	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	19.5	16.7	16.7
87.5°	11.1	13.9	13.9	13.9	13.9	13.9	13.9	11.1	11.1	11.1	8.3
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°	2301.4	2301.4	2301.4	2301.4	2301.4	2301.4	2301.4	2301.4	2301.4	2301.4	2301.4
2.5°	2290.3	2290.3	2295.8	2287.5	2301.4	2293.1	2290.3	2304.2	2295.8	2293.1	2298.6
5°	2270.8	2273.6	2276.4	2270.8	2284.7	2276.4	2276.4	2290.3	2284.7	2281.9	2290.3
7.5°	2245.8	2248.6	2254.1	2251.4	2262.5	2256.9	2259.7	2273.6	2268.0	2268.0	2276.4
10°	2215.2	2220.8	2226.3	2226.3	2240.2	2234.7	2234.7	2251.4	2245.8	2248.6	2259.7
12.5°	2179.1	2187.4	2195.8	2198.6	2212.5	2204.1	2206.9	2226.3	2223.6	2226.3	2237.5
15°	2140.2	2151.3	2159.6	2159.6	2176.3	2168.0	2176.3	2195.8	2190.2	2201.3	2215.2
17.5°	2095.7	2106.8	2117.9	2120.7	2137.4	2131.8	2143.0	2162.4	2162.4	2168.0	2184.7
20°	2054.0	2067.9	2073.5	2081.8	2098.5	2095.7	2101.3	2123.5	2123.5	2131.8	2148.5
22.5°	1998.4	2012.3	2023.4	2031.8	2045.7	2045.7	2054.0	2073.5	2073.5	2079.0	2095.7
25°	1937.3	1954.0	1962.3	1970.6	1984.5	1981.8	1990.1	2006.8	2009.6	2015.1	2031.8
27.5°	1859.5	1873.4	1884.5	1890.0	1909.5	1898.4	1906.7	1926.2	1923.4	1928.9	1942.8
30°	1762.2	1776.1	1787.2	1787.2	1803.9	1803.9	1812.2	1820.5	1820.5	1826.1	1837.2
32.5°	1648.2	1664.9	1664.9	1673.2	1684.4	1673.2	1684.4	1695.5	1689.9	1698.3	1706.6
35°	1517.6	1525.9	1528.7	1528.7	1537.0	1534.3	1531.5	1539.8	1534.3	1548.2	1556.5
37.5°	1359.2	1370.3	1364.7	1370.3	1367.5	1359.2	1359.2	1373.1	1361.9	1364.7	1373.1
40°	1206.3	1206.3	1203.5	1189.6	1192.4	1184.1	1181.3	1184.1	1172.9	1170.2	1181.3
42.5°	1047.9	1045.1	1036.7	1017.3	1020.1	1006.2	995.0	995.0	989.5	986.7	989.5
45°	906.1	897.8	883.9	861.6	856.1	845.0	822.7	817.2	808.8	808.8	811.6
47.5°	775.5	764.4	742.1	717.1	703.2	689.3	667.1	658.7	644.8	639.3	644.8
50°	667.1	647.6	619.8	583.7	569.8	553.1	530.9	517.0	503.1	497.5	494.7
52.5°	567.0	539.2	511.4	466.9	455.8	439.2	408.6	394.7	380.8	369.7	369.7
55°	480.8	455.8	416.9	375.2	358.6	341.9	311.3	291.8	277.9	272.4	266.8
57.5°	403.0	375.2	339.1	294.6	277.9	261.3	230.7	211.2	197.3	189.0	183.4
60°	339.1	308.5	272.4	233.5	214.0	197.3	166.8	147.3	133.4	125.1	119.5
62.5°	277.9	252.9	216.8	180.7	164.0	147.3	122.3	102.8	88.9	83.4	75.0
65°	233.5	208.5	175.1	144.5	130.6	114.0	91.7	75.0	63.9	55.6	50.0
67.5°	189.0	169.5	141.8	114.0	100.1	88.9	69.5	55.6	44.5	38.9	36.1
70°	150.1	130.6	108.4	86.2	77.8	66.7	52.8	38.9	33.4	27.8	25.0
72.5°	111.2	97.3	80.6	63.9	55.6	50.0	36.1	30.6	22.2	19.5	16.7
75°	80.6	69.5	58.4	44.5	38.9	36.1	27.8	19.5	16.7	13.9	11.1
77.5°	55.6	50.0	38.9	30.6	27.8	25.0	19.5	13.9	11.1	8.3	8.3
80°	36.1	30.6	25.0	19.5	19.5	16.7	11.1	8.3	8.3	5.6	5.6
82.5°	22.2	19.5	16.7	13.9	11.1	11.1	8.3	5.6	5.6	2.8	2.8
85°	13.9	11.1	8.3	8.3	5.6	5.6	5.6	2.8	2.8	2.8	2.8
87.5°	5.6	5.6	5.6	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0
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°	2301.4	2301.4	2301.4	2301.4	2301.4	2301.4	2301.4	2301.4	2301.4	2301.4	2301.4
2.5°	2298.6	2298.6	2304.2	2295.8	2301.4	2301.4	2307.0	2295.8	2301.4	2304.2	2309.7
5°	2287.5	2290.3	2295.8	2293.1	2295.8	2295.8	2301.4	2287.5	2298.6	2298.6	2307.0
7.5°	2276.4	2276.4	2281.9	2279.2	2284.7	2287.5	2293.1	2281.9	2293.1	2293.1	2301.4
10°	2262.5	2262.5	2270.8	2268.0	2276.4	2279.2	2287.5	2276.4	2287.5	2290.3	2298.6
12.5°	2243.0	2245.8	2254.1	2254.1	2262.5	2268.0	2276.4	2270.8	2284.7	2287.5	2298.6
15°	2220.8	2226.3	2237.5	2234.7	2243.0	2251.4	2262.5	2254.1	2273.6	2279.2	2290.3
17.5°	2193.0	2198.6	2206.9	2206.9	2215.2	2220.8	2234.7	2229.1	2245.8	2248.6	2262.5
20°	2151.3	2159.6	2170.8	2168.0	2176.3	2181.9	2193.0	2187.4	2204.1	2209.7	2223.6
22.5°	2101.3	2106.8	2115.2	2115.2	2123.5	2129.1	2140.2	2131.8	2148.5	2151.3	2162.4
25°	2034.6	2040.1	2045.7	2048.5	2056.8	2059.6	2065.1	2059.6	2073.5	2076.3	2090.2
27.5°	1948.4	1951.2	1959.5	1959.5	1965.1	1967.9	1976.2	1965.1	1984.5	1984.5	1992.9
30°	1845.6	1842.8	1853.9	1848.3	1853.9	1853.9	1862.2	1856.7	1870.6	1865.0	1873.4
32.5°	1709.4	1714.9	1714.9	1709.4	1720.5	1717.7	1717.7	1712.1	1720.5	1723.3	1728.8
35°	1550.9	1559.3	1559.3	1562.1	1564.8	1556.5	1559.3	1542.6	1556.5	1559.3	1562.1
37.5°	1378.6	1370.3	1375.8	1367.5	1381.4	1364.7	1364.7	1353.6	1364.7	1364.7	1367.5
40°	1181.3	1178.5	1184.1	1178.5	1175.7	1172.9	1167.4	1159.0	1170.2	1164.6	1172.9
42.5°	995.0	992.3	992.3	986.7	983.9	983.9	978.4	972.8	970.0	970.0	983.9
45°	803.3	808.8	803.3	800.5	806.0	800.5	803.3	792.1	797.7	792.1	797.7
47.5°	642.1	644.8	639.3	633.7	642.1	633.7	633.7	625.4	636.5	636.5	630.9
50°	497.5	494.7	489.2	494.7	492.0	492.0	492.0	483.6	489.2	480.8	486.4
52.5°	366.9	364.1	364.1	361.3	364.1	361.3	361.3	358.6	358.6	355.8	358.6
55°	266.8	264.0	258.5	258.5	258.5	261.3	258.5	255.7	255.7	252.9	255.7
57.5°	180.7	175.1	175.1	175.1	175.1	172.3	172.3	169.5	172.3	169.5	172.3
60°	116.7	116.7	111.2	111.2	111.2	111.2	111.2	108.4	111.2	111.2	111.2
62.5°	72.3	72.3	69.5	66.7	69.5	66.7	66.7	66.7	69.5	66.7	69.5
65°	47.3	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
67.5°	33.4	30.6	30.6	30.6	30.6	30.6	30.6	27.8	30.6	30.6	30.6
70°	22.2	22.2	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
72.5°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
75°	11.1	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
77.5°	8.3	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
80°	5.6	5.6	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
85°	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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: P252285

CATALOG NUMBER: LD6B40D010 EU6B30508030 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2301.4	2301.4	2301.4	2301.4	2301.4	2301.4	2301.4	2301.4
2.5°	2301.4	2304.2	2298.6	2301.4	2295.8	2301.4	2304.2	2309.7
5°	2295.8	2298.6	2293.1	2298.6	2293.1	2298.6	2301.4	2307.0
7.5°	2290.3	2295.8	2290.3	2295.8	2290.3	2295.8	2298.6	2304.2
10°	2290.3	2298.6	2293.1	2301.4	2293.1	2298.6	2304.2	2307.0
12.5°	2290.3	2298.6	2295.8	2301.4	2298.6	2304.2	2309.7	2315.3
15°	2284.7	2293.1	2287.5	2295.8	2293.1	2295.8	2307.0	2307.0
17.5°	2254.1	2262.5	2262.5	2268.0	2268.0	2276.4	2281.9	2287.5
20°	2215.2	2223.6	2220.8	2229.1	2229.1	2237.5	2243.0	2248.6
22.5°	2156.9	2168.0	2165.2	2173.5	2170.8	2176.3	2187.4	2184.7
25°	2081.8	2095.7	2092.9	2098.5	2095.7	2095.7	2101.3	2104.1
27.5°	1990.1	1998.4	1995.7	2001.2	1995.7	2001.2	2006.8	2009.6
30°	1870.6	1876.1	1873.4	1876.1	1873.4	1878.9	1881.7	1887.3
32.5°	1726.0	1734.4	1726.0	1731.6	1728.8	1728.8	1739.9	1734.4
35°	1553.7	1556.5	1559.3	1559.3	1553.7	1556.5	1562.1	1562.1
37.5°	1361.9	1375.8	1359.2	1367.5	1364.7	1364.7	1364.7	1373.1
40°	1161.8	1164.6	1159.0	1159.0	1159.0	1156.3	1167.4	1164.6
42.5°	972.8	975.6	972.8	964.5	967.3	967.3	975.6	964.5
45°	789.4	794.9	792.1	792.1	786.6	786.6	789.4	783.8
47.5°	625.4	630.9	622.6	625.4	619.8	625.4	622.6	628.2
50°	475.3	480.8	478.1	480.8	480.8	475.3	483.6	472.5
52.5°	355.8	358.6	355.8	353.0	350.2	350.2	355.8	353.0
55°	252.9	250.2	250.2	250.2	252.9	252.9	250.2	247.4
57.5°	169.5	169.5	166.8	166.8	169.5	164.0	166.8	164.0
60°	108.4	108.4	108.4	108.4	105.6	108.4	108.4	108.4
62.5°	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
65°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
67.5°	27.8	30.6	30.6	30.6	27.8	27.8	27.8	27.8
70°	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
72.5°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
75°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
80°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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)