

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: P252528

Luminaire Tested: **LD6B60D010TE EU6B60709050 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252528
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: LD6B60D010TE EU6B60709050 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4419.0 lumens
Efficiency: N/A
Efficacy: 70.7 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

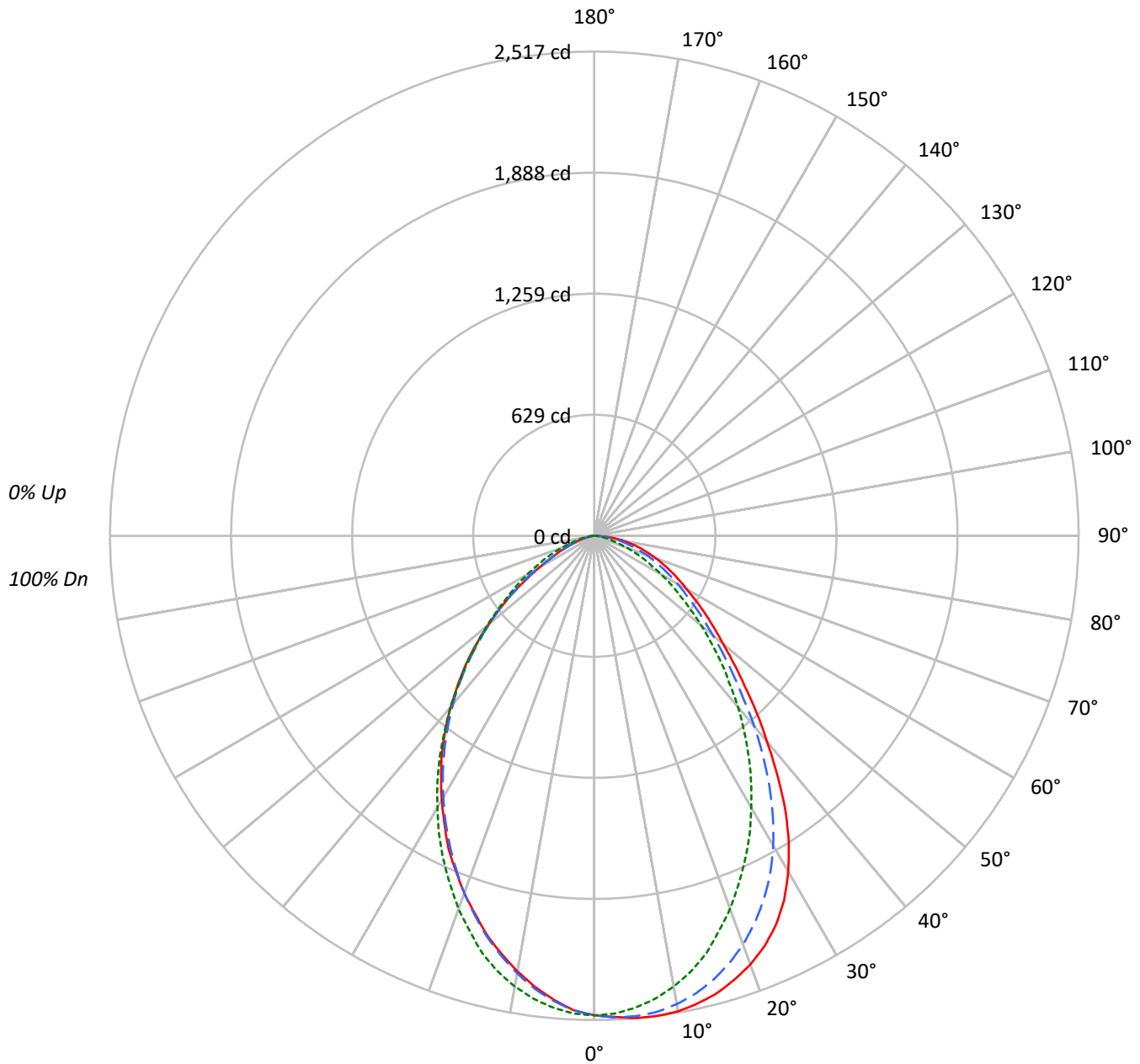
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	162645	162645	162645
5°	164851	161223	158505
10°	166300	157582	152309
15°	166275	151774	145229
20°	164668	143271	137265
25°	160764	133597	129112
30°	151812	122854	119464
35°	137609	111406	110028
40°	118840	99082	98784
45°	101906	86258	86894
50°	88556	73798	72742
55°	79552	62229	58282
60°	72287	52401	42915
65°	67878	43301	31538
70°	64722	33687	23119
75°	61959	24426	15704
80°	58535	16907	10407
85°	51800	10330	5165



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.2	5.3
10°-20°	638.7	14.5
20°-30°	886.7	20.1
30°-40°	918.4	20.8
40°-50°	754.7	17.1
50°-60°	518.7	11.7
60°-70°	298.2	6.7
70°-80°	137.1	3.1
80°-90°	33.4	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°	1758.5	39.8
0°-40°	2677.0	60.6
0°-60°	3950.4	89.4
0°-90°	4419.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4419.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2493	2493	2493	2493	2493	
5°	2517	2507	2462	2427	2420	240
15°	2462	2389	2247	2157	2150	693
25°	2233	2084	1856	1776	1794	1022
35°	1728	1586	1399	1357	1382	1071
45°	1104	1021	935	924	942	860
55°	699	634	547	516	512	629
65°	440	384	280	197	204	438
75°	246	194	97	62	62	260
85°	69	48	14	7	7	78
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°	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0
2.5°	2503.4	2524.1	2510.3	2506.8	2513.7	2513.7	2513.7	2503.4	2510.3	2499.9	2506.8
5°	2517.2	2534.5	2520.7	2513.7	2520.7	2524.1	2513.7	2506.8	2517.2	2503.4	2506.8
7.5°	2517.2	2534.5	2520.7	2517.2	2520.7	2520.7	2517.2	2503.4	2510.3	2496.4	2496.4
10°	2510.3	2524.1	2510.3	2503.4	2506.8	2503.4	2503.4	2486.0	2489.5	2472.2	2472.2
12.5°	2489.5	2506.8	2489.5	2482.6	2482.6	2482.6	2472.2	2458.3	2461.8	2441.0	2437.6
15°	2461.8	2475.7	2458.3	2451.4	2451.4	2448.0	2441.0	2420.3	2420.3	2399.5	2389.1
17.5°	2420.3	2434.1	2420.3	2409.9	2406.4	2399.5	2392.6	2371.8	2364.9	2340.6	2330.2
20°	2371.8	2382.2	2368.3	2357.9	2351.0	2344.1	2330.2	2309.5	2302.5	2278.3	2261.0
22.5°	2309.5	2323.3	2302.5	2292.1	2285.2	2274.8	2261.0	2240.2	2229.8	2198.7	2177.9
25°	2233.3	2240.2	2222.9	2212.5	2198.7	2191.7	2181.3	2153.6	2143.3	2108.6	2084.4
27.5°	2136.3	2143.3	2122.5	2115.6	2098.2	2091.3	2077.5	2053.2	2039.4	2004.8	1980.5
30°	2015.2	2022.1	2008.2	1997.8	1984.0	1970.1	1959.8	1935.5	1914.7	1880.1	1859.3
32.5°	1880.1	1890.5	1876.7	1862.8	1838.6	1842.0	1824.7	1800.5	1783.2	1752.0	1727.8
35°	1727.8	1734.7	1717.4	1713.9	1700.1	1686.2	1668.9	1651.6	1641.2	1606.6	1585.8
37.5°	1558.1	1575.4	1558.1	1544.3	1537.3	1526.9	1516.6	1492.3	1485.4	1464.6	1436.9
40°	1395.4	1405.8	1395.4	1381.5	1371.1	1371.1	1357.3	1343.4	1326.1	1305.3	1295.0
42.5°	1249.9	1243.0	1239.6	1232.6	1218.8	1215.3	1211.9	1194.5	1184.2	1163.4	1146.1
45°	1104.5	1108.0	1101.1	1097.6	1087.2	1080.3	1073.4	1059.5	1056.0	1035.3	1021.4
47.5°	983.3	979.9	973.0	973.0	966.0	959.1	952.2	941.8	938.3	921.0	907.2
50°	872.5	876.0	872.5	869.1	858.7	855.2	848.3	841.4	834.5	817.1	803.3
52.5°	782.5	779.1	775.6	775.6	765.2	761.7	754.8	747.9	741.0	723.7	713.3
55°	699.4	699.4	696.0	692.5	682.1	678.6	675.2	668.3	657.9	644.0	633.6
57.5°	623.2	623.2	619.8	616.3	609.4	609.4	602.5	595.5	588.6	574.8	560.9
60°	554.0	557.5	554.0	550.5	543.6	543.6	540.1	529.8	526.3	509.0	498.6
62.5°	495.1	495.1	495.1	491.7	488.2	481.3	481.3	470.9	464.0	453.6	439.7
65°	439.7	439.7	439.7	436.3	429.3	425.9	422.4	415.5	408.6	398.2	384.3
67.5°	387.8	387.8	387.8	384.3	377.4	373.9	370.5	367.0	356.6	346.2	332.4
70°	339.3	339.3	335.9	332.4	328.9	325.5	322.0	315.1	308.2	294.3	283.9
72.5°	290.8	290.8	290.8	283.9	280.5	280.5	273.5	270.1	263.1	249.3	238.9
75°	245.8	242.4	242.4	238.9	235.4	232.0	228.5	225.1	214.7	207.7	193.9
77.5°	200.8	200.8	197.4	193.9	193.9	190.4	187.0	180.0	176.6	166.2	155.8
80°	155.8	155.8	155.8	155.8	152.3	148.9	148.9	142.0	138.5	128.1	121.2
82.5°	117.7	114.3	114.3	114.3	110.8	107.3	107.3	103.9	100.4	93.5	86.6
85°	69.2	65.8	65.8	65.8	62.3	62.3	58.9	58.9	55.4	48.5	48.5
87.5°	20.8	20.8	24.2	24.2	20.8	20.8	20.8	20.8	20.8	17.3	17.3
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°	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0
2.5°	2499.9	2510.3	2496.4	2493.0	2506.8	2499.9	2496.4	2489.5	2493.0	2486.0	2475.7
5°	2496.4	2510.3	2493.0	2482.6	2499.9	2489.5	2482.6	2475.7	2475.7	2461.8	2454.9
7.5°	2486.0	2493.0	2475.7	2465.3	2475.7	2465.3	2458.3	2448.0	2444.5	2427.2	2416.8
10°	2458.3	2465.3	2444.5	2430.6	2441.0	2427.2	2416.8	2406.4	2399.5	2378.7	2364.9
12.5°	2420.3	2423.7	2399.5	2382.2	2389.1	2378.7	2361.4	2347.5	2340.6	2319.8	2302.5
15°	2368.3	2371.8	2344.1	2319.8	2326.8	2312.9	2292.1	2278.3	2267.9	2247.1	2222.9
17.5°	2306.0	2302.5	2271.4	2247.1	2250.6	2233.3	2212.5	2191.7	2177.9	2153.6	2136.3
20°	2236.7	2226.4	2191.7	2164.0	2167.5	2146.7	2122.5	2101.7	2084.4	2063.6	2039.4
22.5°	2150.2	2136.3	2105.2	2070.6	2074.0	2056.7	2022.1	2004.8	1987.5	1959.8	1939.0
25°	2056.7	2035.9	2004.8	1970.1	1970.1	1949.4	1921.7	1900.9	1883.6	1855.9	1831.6
27.5°	1945.9	1935.5	1894.0	1866.3	1862.8	1842.0	1817.8	1793.6	1772.8	1748.5	1724.3
30°	1824.7	1807.4	1776.2	1745.1	1738.2	1720.8	1696.6	1668.9	1655.1	1630.8	1610.0
32.5°	1696.6	1679.3	1644.7	1613.5	1610.0	1596.2	1575.4	1547.7	1533.9	1516.6	1502.7
35°	1551.2	1544.3	1509.6	1485.4	1485.4	1471.5	1450.8	1426.5	1416.1	1398.8	1381.5
37.5°	1412.7	1402.3	1371.1	1350.4	1350.4	1333.0	1312.3	1301.9	1291.5	1277.6	1267.3
40°	1267.3	1260.3	1236.1	1215.3	1218.8	1204.9	1191.1	1177.2	1170.3	1163.4	1153.0
42.5°	1132.2	1125.3	1108.0	1090.7	1090.7	1080.3	1066.4	1056.0	1049.1	1038.7	1035.3
45°	1011.0	1000.7	986.8	969.5	969.5	959.1	952.2	945.3	941.8	934.9	924.5
47.5°	893.3	886.4	872.5	855.2	855.2	855.2	841.4	831.0	831.0	824.1	820.6
50°	792.9	782.5	772.1	758.3	758.3	751.4	741.0	730.6	730.6	727.1	720.2
52.5°	699.4	692.5	678.6	664.8	664.8	657.9	647.5	644.0	640.6	630.2	626.7
55°	619.8	612.9	602.5	585.2	581.7	578.2	567.8	560.9	557.5	547.1	547.1
57.5°	547.1	540.1	522.8	512.4	509.0	502.1	491.7	484.7	481.3	474.4	467.4
60°	484.7	474.4	460.5	446.7	443.2	436.3	425.9	419.0	415.5	401.6	394.7
62.5°	425.9	415.5	401.6	387.8	384.3	377.4	363.6	356.6	349.7	335.9	328.9
65°	370.5	360.1	346.2	332.4	325.5	322.0	308.2	297.8	290.8	280.5	266.6
67.5°	318.5	308.2	294.3	277.0	277.0	266.6	256.2	245.8	235.4	225.1	214.7
70°	270.1	259.7	245.8	232.0	228.5	221.6	211.2	197.4	190.4	176.6	166.2
72.5°	225.1	214.7	200.8	187.0	183.5	176.6	166.2	152.3	142.0	131.6	121.2
75°	183.5	173.1	159.3	148.9	145.4	138.5	128.1	114.3	103.9	96.9	86.6
77.5°	145.4	135.0	124.6	114.3	110.8	103.9	93.5	86.6	76.2	69.2	58.9
80°	110.8	103.9	93.5	86.6	83.1	76.2	69.2	58.9	51.9	45.0	41.5
82.5°	79.6	72.7	65.8	55.4	55.4	48.5	45.0	38.1	31.2	27.7	24.2
85°	45.0	38.1	34.6	31.2	27.7	27.7	24.2	20.8	17.3	13.8	13.8
87.5°	13.8	13.8	10.4	10.4	10.4	10.4	6.9	6.9	6.9	6.9	6.9
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°	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0
2.5°	2475.7	2479.1	2472.2	2479.1	2472.2	2475.7	2468.7	2475.7	2468.7	2475.7	2461.8
5°	2451.4	2451.4	2441.0	2448.0	2441.0	2444.5	2430.6	2434.1	2427.2	2434.1	2420.3
7.5°	2409.9	2413.3	2396.0	2402.9	2392.6	2392.6	2382.2	2385.6	2375.2	2378.7	2368.3
10°	2361.4	2357.9	2340.6	2347.5	2333.7	2333.7	2323.3	2323.3	2309.5	2312.9	2299.1
12.5°	2292.1	2288.7	2267.9	2274.8	2261.0	2261.0	2250.6	2250.6	2236.7	2243.7	2229.8
15°	2212.5	2209.0	2188.3	2191.7	2177.9	2177.9	2164.0	2167.5	2157.1	2164.0	2150.2
17.5°	2122.5	2119.0	2098.2	2101.7	2084.4	2087.9	2077.5	2074.0	2067.1	2070.6	2060.2
20°	2029.0	2022.1	2001.3	2004.8	1997.8	1987.5	1980.5	1984.0	1977.1	1984.0	1973.6
22.5°	1932.1	1918.2	1900.9	1900.9	1894.0	1894.0	1883.6	1890.5	1876.7	1887.0	1880.1
25°	1821.3	1810.9	1797.0	1803.9	1790.1	1790.1	1779.7	1783.2	1776.2	1783.2	1776.2
27.5°	1713.9	1707.0	1686.2	1693.1	1682.8	1686.2	1675.8	1679.3	1675.8	1682.8	1675.8
30°	1599.7	1596.2	1582.3	1582.3	1578.9	1575.4	1572.0	1572.0	1568.5	1578.9	1572.0
32.5°	1492.3	1481.9	1468.1	1478.5	1461.2	1471.5	1464.6	1471.5	1464.6	1471.5	1468.1
35°	1381.5	1378.1	1360.7	1364.2	1360.7	1360.7	1357.3	1357.3	1357.3	1367.7	1367.7
37.5°	1263.8	1260.3	1249.9	1253.4	1246.5	1243.0	1243.0	1249.9	1249.9	1256.9	1256.9
40°	1149.5	1153.0	1142.6	1142.6	1139.1	1139.1	1139.1	1146.1	1142.6	1149.5	1146.1
42.5°	1035.3	1035.3	1024.9	1028.4	1024.9	1028.4	1028.4	1035.3	1035.3	1038.7	1035.3
45°	927.9	927.9	924.5	927.9	921.0	924.5	921.0	927.9	924.5	927.9	927.9
47.5°	820.6	820.6	820.6	817.1	817.1	817.1	817.1	817.1	813.7	820.6	817.1
50°	720.2	723.7	720.2	720.2	716.7	720.2	716.7	716.7	709.8	713.3	713.3
52.5°	630.2	630.2	623.2	623.2	623.2	619.8	619.8	619.8	616.3	616.3	609.4
55°	543.6	543.6	536.7	536.7	533.2	529.8	526.3	526.3	515.9	515.9	505.5
57.5°	464.0	460.5	450.1	450.1	443.2	439.7	436.3	432.8	425.9	419.0	415.5
60°	391.3	384.3	377.4	373.9	367.0	360.1	353.2	346.2	339.3	335.9	332.4
62.5°	322.0	311.6	304.7	301.2	294.3	283.9	277.0	270.1	263.1	259.7	252.8
65°	259.7	249.3	238.9	235.4	228.5	221.6	211.2	204.3	197.4	193.9	193.9
67.5°	204.3	193.9	180.0	180.0	173.1	166.2	159.3	152.3	148.9	152.3	152.3
70°	152.3	145.4	135.0	131.6	124.6	117.7	114.3	114.3	114.3	117.7	114.3
72.5°	114.3	103.9	96.9	93.5	90.0	86.6	86.6	86.6	83.1	86.6	86.6
75°	79.6	72.7	65.8	65.8	62.3	62.3	62.3	62.3	62.3	62.3	62.3
77.5°	55.4	48.5	45.0	45.0	45.0	41.5	41.5	41.5	41.5	41.5	41.5
80°	34.6	34.6	31.2	31.2	27.7	27.7	27.7	27.7	27.7	27.7	27.7
82.5°	20.8	20.8	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
85°	10.4	10.4	10.4	10.4	10.4	6.9	6.9	6.9	6.9	6.9	6.9
87.5°	3.5	3.5	3.5	3.5	3.5	6.9	6.9	6.9	6.9	6.9	6.9
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: P252528

CATALOG NUMBER: LD6B60D010TE EU6B60709050 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0
2.5°	2461.8	2472.2	2458.3	2468.7	2465.3	2461.8	2454.9	2468.7
5°	2420.3	2423.7	2409.9	2423.7	2420.3	2413.3	2406.4	2420.3
7.5°	2361.4	2371.8	2354.5	2368.3	2364.9	2357.9	2351.0	2364.9
10°	2295.6	2306.0	2292.1	2302.5	2302.5	2295.6	2285.2	2299.1
12.5°	2222.9	2229.8	2216.0	2229.8	2226.4	2219.4	2216.0	2226.4
15°	2143.3	2153.6	2139.8	2150.2	2146.7	2143.3	2139.8	2150.2
17.5°	2056.7	2067.1	2056.7	2067.1	2067.1	2056.7	2053.2	2060.2
20°	1970.1	1977.1	1966.7	1977.1	1973.6	1973.6	1966.7	1977.1
22.5°	1873.2	1883.6	1876.7	1883.6	1880.1	1880.1	1876.7	1883.6
25°	1776.2	1786.6	1776.2	1786.6	1783.2	1783.2	1776.2	1793.6
27.5°	1679.3	1686.2	1675.8	1689.7	1686.2	1679.3	1682.8	1686.2
30°	1575.4	1582.3	1575.4	1585.8	1585.8	1585.8	1578.9	1585.8
32.5°	1471.5	1481.9	1471.5	1481.9	1478.5	1478.5	1475.0	1481.9
35°	1367.7	1371.1	1364.2	1374.6	1374.6	1378.1	1371.1	1381.5
37.5°	1260.3	1263.8	1260.3	1263.8	1270.7	1260.3	1267.3	1270.7
40°	1149.5	1156.5	1153.0	1156.5	1156.5	1159.9	1156.5	1159.9
42.5°	1038.7	1045.7	1038.7	1049.1	1045.7	1045.7	1049.1	1049.1
45°	924.5	934.9	927.9	934.9	938.3	934.9	934.9	941.8
47.5°	817.1	824.1	820.6	824.1	824.1	824.1	824.1	831.0
50°	709.8	713.3	713.3	716.7	716.7	720.2	713.3	716.7
52.5°	602.5	609.4	609.4	609.4	605.9	609.4	609.4	609.4
55°	505.5	509.0	502.1	509.0	509.0	505.5	505.5	512.4
57.5°	412.0	412.0	412.0	412.0	412.0	408.6	412.0	412.0
60°	325.5	328.9	325.5	325.5	325.5	325.5	322.0	328.9
62.5°	252.8	252.8	249.3	252.8	252.8	252.8	256.2	256.2
65°	197.4	200.8	197.4	200.8	200.8	200.8	200.8	204.3
67.5°	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
70°	117.7	117.7	117.7	121.2	117.7	117.7	117.7	121.2
72.5°	86.6	86.6	86.6	86.6	86.6	86.6	90.0	90.0
75°	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
77.5°	41.5	41.5	41.5	45.0	41.5	45.0	41.5	41.5
80°	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
82.5°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
85°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
87.5°	6.9	6.9	6.9	6.9	3.5	3.5	3.5	3.5
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)