

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: P252736

Luminaire Tested: **LD6B60D010TE EU6B60709050 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B60D010TE EU6B60709050 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE 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: 4859.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

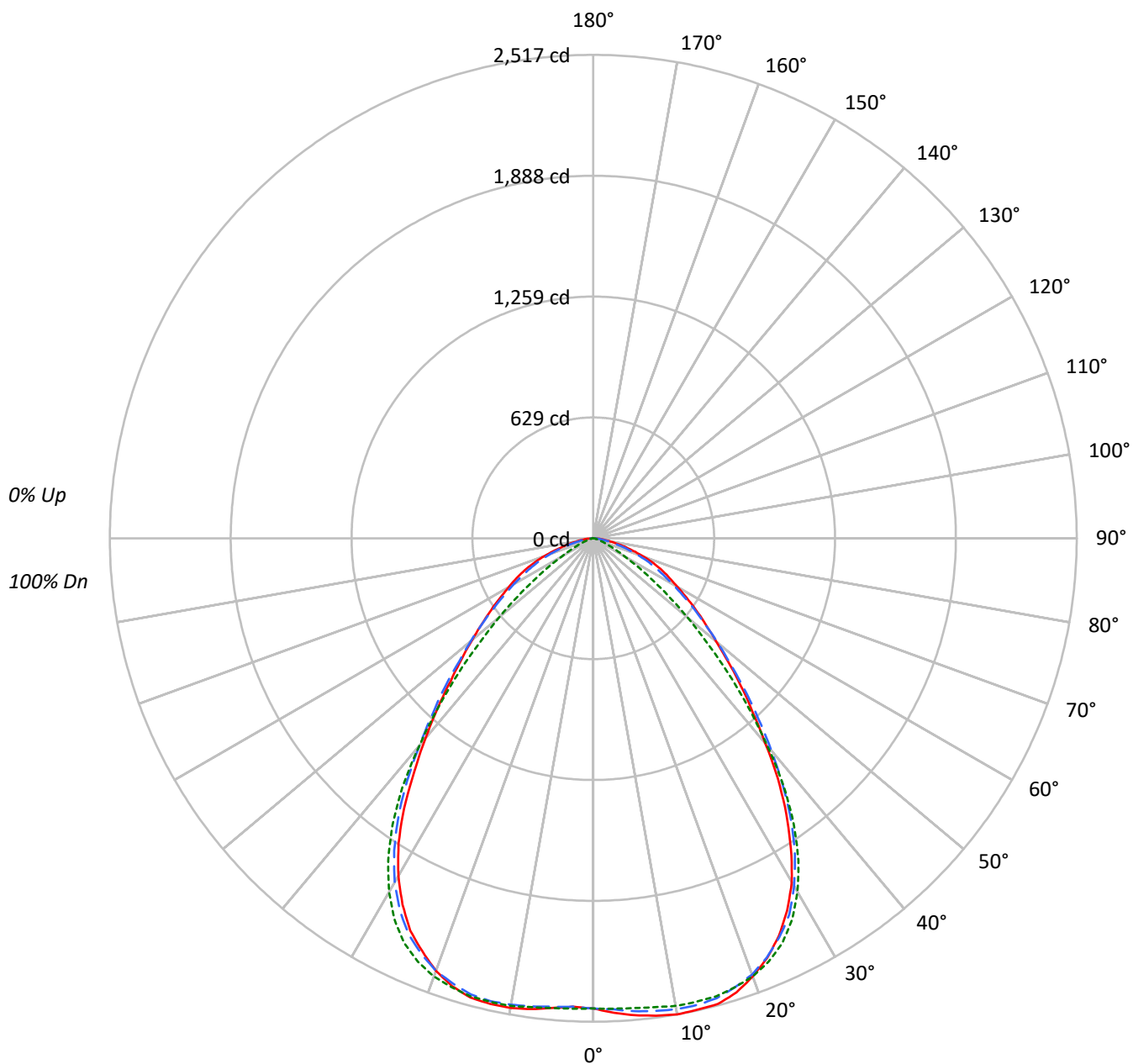
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	109	105	102	99	101	98	96	97	95	93	94	92	91	89						
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78						
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68						
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61						
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54						
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48						
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44						
8	67	55	47	42	66	54	47	42	53	47	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	39	35	45	39	35	44	39	35	33						

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	159716	159716	159716
5°	163273	160778	160778
10°	166764	163783	164472
15°	169558	166748	167221
20°	168522	168522	166356
25°	164507	167502	162269
30°	155729	160159	152859
35°	139544	145056	136789
40°	118551	120024	115595
45°	100319	91692	96804
50°	84699	64663	83643
55°	74434	41744	73649
60°	65958	24844	66415
65°	60931	14974	60931
70°	52838	8584	51522
75°	41894	5243	39273
80°	31221	3907	29906
85°	28520	2620	25900



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.7	4.9
10°-20°	697.5	14.4
20°-30°	1049.1	21.6
30°-40°	1103.0	22.7
40°-50°	824.0	17.0
50°-60°	513.0	10.6
60°-70°	291.7	6.0
70°-80°	120.1	2.5
80°-90°	24.8	0.5
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°	1982.3	40.8
0°-40°	3085.3	63.5
0°-60°	4422.3	91.0
0°-90°	4859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4859.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2448	2448	2448	2448	2448	
5°	2493	2472	2455	2448	2455	239
15°	2510	2479	2469	2458	2476	706
25°	2285	2292	2327	2275	2254	1046
35°	1752	1797	1821	1769	1718	1087
45°	1087	1112	994	1091	1049	843
55°	654	641	367	630	648	589
65°	395	353	97	353	395	389
75°	166	132	21	128	156	181
85°	38	24	4	21	35	42
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°	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1
2.5°	2472.3	2468.8	2472.3	2465.4	2461.9	2461.9	2465.4	2458.5	2455.0	2458.5	2455.0
5°	2493.1	2486.2	2489.6	2486.2	2479.2	2479.2	2482.7	2472.3	2472.3	2475.8	2472.3
7.5°	2506.9	2506.9	2506.9	2500.0	2496.5	2493.1	2500.0	2489.6	2486.2	2486.2	2482.7
10°	2517.3	2513.9	2517.3	2510.4	2503.5	2500.0	2506.9	2500.0	2493.1	2500.0	2489.6
12.5°	2513.9	2513.9	2513.9	2510.4	2503.5	2500.0	2506.9	2496.5	2493.1	2496.5	2489.6
15°	2510.4	2500.0	2503.5	2500.0	2489.6	2489.6	2493.1	2482.7	2475.8	2486.2	2479.2
17.5°	2479.2	2472.3	2475.8	2468.8	2461.9	2458.5	2461.9	2458.5	2451.5	2458.5	2451.5
20°	2427.3	2427.3	2430.8	2423.8	2416.9	2413.4	2420.4	2413.4	2406.5	2416.9	2416.9
22.5°	2365.0	2365.0	2365.0	2361.5	2358.0	2358.0	2358.0	2354.6	2351.1	2358.0	2361.5
25°	2285.3	2281.9	2285.3	2288.8	2285.3	2281.9	2285.3	2285.3	2278.4	2292.3	2292.3
27.5°	2184.9	2184.9	2191.8	2188.4	2188.4	2184.9	2191.8	2191.8	2188.4	2198.8	2209.1
30°	2067.2	2060.3	2067.2	2067.2	2070.6	2070.6	2074.1	2074.1	2074.1	2084.5	2091.4
32.5°	1914.8	1918.3	1928.7	1925.2	1921.8	1932.1	1932.1	1939.1	1942.5	1949.5	1952.9
35°	1752.1	1755.5	1755.5	1759.0	1765.9	1759.0	1776.3	1772.9	1776.3	1790.2	1797.1
37.5°	1579.0	1568.6	1585.9	1579.0	1582.4	1582.4	1589.3	1592.8	1603.2	1620.5	1620.5
40°	1392.0	1395.4	1402.4	1405.8	1409.3	1409.3	1409.3	1419.7	1423.1	1443.9	1440.4
42.5°	1229.2	1229.2	1236.2	1239.6	1239.6	1239.6	1239.6	1250.0	1256.9	1263.9	1270.8
45°	1087.3	1076.9	1083.8	1083.8	1090.7	1087.3	1094.2	1101.1	1104.6	1115.0	1111.5
47.5°	952.2	948.8	952.2	955.7	952.2	955.7	959.1	962.6	966.1	966.1	966.1
50°	834.5	834.5	838.0	841.4	841.4	841.4	841.4	844.9	844.9	851.8	844.9
52.5°	737.5	741.0	741.0	737.5	741.0	741.0	744.5	744.5	741.0	741.0	730.6
55°	654.4	651.0	654.4	651.0	654.4	654.4	651.0	651.0	647.5	644.0	640.6
57.5°	574.8	574.8	574.8	574.8	571.3	574.8	571.3	567.9	567.9	560.9	550.6
60°	505.5	505.5	505.5	505.5	505.5	502.1	505.5	502.1	495.2	488.2	474.4
62.5°	446.7	443.2	446.7	443.2	443.2	439.8	439.8	436.3	429.4	422.4	408.6
65°	394.7	398.2	394.7	394.7	391.3	387.8	387.8	384.4	374.0	367.0	353.2
67.5°	339.3	335.9	335.9	335.9	332.4	332.4	332.4	325.5	318.6	308.2	294.3
70°	277.0	277.0	277.0	273.5	273.5	270.1	270.1	266.6	259.7	252.8	235.5
72.5°	218.1	218.1	218.1	211.2	214.7	211.2	211.2	204.3	200.8	190.4	180.1
75°	166.2	166.2	162.7	162.7	159.3	155.8	155.8	152.4	148.9	142.0	131.6
77.5°	121.2	121.2	121.2	117.7	114.3	110.8	110.8	107.3	103.9	100.4	93.5
80°	83.1	83.1	83.1	83.1	79.6	76.2	76.2	72.7	72.7	69.3	62.3
82.5°	55.4	55.4	55.4	55.4	51.9	51.9	51.9	48.5	45.0	45.0	38.1
85°	38.1	38.1	34.6	34.6	34.6	34.6	31.2	31.2	27.7	24.2	24.2
87.5°	20.8	20.8	20.8	20.8	17.3	17.3	17.3	17.3	13.9	13.9	10.4
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°	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1
2.5°	2465.4	2465.4	2461.9	2451.5	2455.0	2451.5	2455.0	2451.5	2441.1	2451.5	2441.1
5°	2479.2	2482.7	2475.8	2461.9	2465.4	2461.9	2461.9	2458.5	2448.1	2455.0	2448.1
7.5°	2493.1	2489.6	2486.2	2472.3	2475.8	2472.3	2472.3	2465.4	2455.0	2461.9	2451.5
10°	2500.0	2500.0	2493.1	2479.2	2479.2	2475.8	2479.2	2475.8	2461.9	2472.3	2465.4
12.5°	2500.0	2496.5	2496.5	2479.2	2482.7	2479.2	2482.7	2475.8	2465.4	2472.3	2468.8
15°	2489.6	2489.6	2486.2	2468.8	2472.3	2472.3	2475.8	2468.8	2458.5	2468.8	2461.9
17.5°	2468.8	2468.8	2465.4	2451.5	2458.5	2458.5	2461.9	2455.0	2444.6	2451.5	2451.5
20°	2427.3	2430.8	2430.8	2420.4	2427.3	2427.3	2430.8	2427.3	2423.8	2427.3	2420.4
22.5°	2378.8	2385.7	2385.7	2375.4	2382.3	2382.3	2392.7	2389.2	2382.3	2385.7	2382.3
25°	2306.1	2313.0	2320.0	2313.0	2320.0	2320.0	2330.3	2326.9	2320.0	2326.9	2316.5
27.5°	2223.0	2226.5	2233.4	2226.5	2236.8	2233.4	2243.8	2240.3	2229.9	2240.3	2236.8
30°	2105.3	2119.1	2129.5	2119.1	2129.5	2129.5	2136.4	2133.0	2129.5	2126.0	2126.0
32.5°	1973.7	1987.5	1987.5	1984.1	1991.0	1991.0	1994.5	1987.5	1984.1	1987.5	1991.0
35°	1810.9	1817.9	1824.8	1821.3	1824.8	1828.3	1824.8	1828.3	1817.9	1821.3	1821.3
37.5°	1634.4	1641.3	1641.3	1630.9	1637.8	1637.8	1630.9	1630.9	1624.0	1630.9	1617.0
40°	1447.4	1440.4	1443.9	1437.0	1430.1	1430.1	1426.6	1412.7	1405.8	1409.3	1412.7
42.5°	1263.9	1263.9	1253.5	1236.2	1218.8	1218.8	1208.5	1201.5	1187.7	1194.6	1191.1
45°	1108.0	1090.7	1076.9	1049.2	1038.8	1031.9	1014.5	997.2	990.3	993.8	990.3
47.5°	959.1	945.3	910.7	872.6	862.2	851.8	831.0	810.3	803.3	796.4	796.4
50°	834.5	810.3	772.2	730.6	713.3	696.0	668.3	647.5	633.7	637.1	637.1
52.5°	720.2	692.5	647.5	595.6	574.8	554.0	529.8	505.5	495.2	491.7	491.7
55°	619.8	588.6	543.6	484.8	467.5	443.2	412.1	384.4	370.5	367.0	374.0
57.5°	529.8	502.1	450.1	391.3	370.5	346.3	315.1	290.9	273.5	270.1	273.5
60°	457.1	419.0	374.0	318.6	290.9	270.1	235.5	214.7	197.4	190.4	193.9
62.5°	384.4	349.7	304.7	249.3	228.5	207.8	176.6	152.4	138.5	135.0	138.5
65°	328.9	294.3	252.8	204.3	183.5	162.7	135.0	110.8	100.4	97.0	100.4
67.5°	273.5	242.4	207.8	162.7	145.4	128.1	100.4	83.1	69.3	65.8	69.3
70°	221.6	193.9	159.3	128.1	110.8	97.0	76.2	58.9	48.5	45.0	48.5
72.5°	166.2	145.4	121.2	93.5	83.1	72.7	55.4	41.6	34.6	31.2	34.6
75°	121.2	103.9	86.6	65.8	58.9	51.9	38.1	27.7	24.2	20.8	24.2
77.5°	83.1	72.7	58.9	45.0	38.1	34.6	24.2	20.8	17.3	13.9	13.9
80°	55.4	48.5	38.1	31.2	27.7	24.2	17.3	13.9	10.4	10.4	10.4
82.5°	34.6	27.7	24.2	17.3	13.9	13.9	10.4	6.9	6.9	6.9	6.9
85°	20.8	17.3	13.9	10.4	6.9	6.9	3.5	3.5	3.5	3.5	3.5
87.5°	10.4	6.9	6.9	3.5	3.5	3.5	3.5	3.5	0.0	0.0	3.5
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1
2.5°	2448.1	2441.1	2441.1	2444.6	2448.1	2451.5	2444.6	2441.1	2441.1	2451.5	2444.6
5°	2448.1	2444.6	2444.6	2444.6	2451.5	2455.0	2448.1	2444.6	2448.1	2458.5	2455.0
7.5°	2458.5	2451.5	2455.0	2455.0	2458.5	2465.4	2458.5	2455.0	2458.5	2468.8	2461.9
10°	2465.4	2458.5	2461.9	2458.5	2468.8	2472.3	2465.4	2461.9	2465.4	2479.2	2475.8
12.5°	2468.8	2465.4	2465.4	2461.9	2472.3	2475.8	2468.8	2465.4	2468.8	2479.2	2475.8
15°	2461.9	2458.5	2458.5	2458.5	2465.4	2472.3	2461.9	2458.5	2458.5	2468.8	2465.4
17.5°	2448.1	2441.1	2441.1	2441.1	2444.6	2448.1	2437.7	2434.2	2430.8	2441.1	2437.7
20°	2423.8	2416.9	2410.0	2410.0	2413.4	2413.4	2406.5	2396.1	2396.1	2399.6	2392.7
22.5°	2378.8	2375.4	2368.4	2365.0	2371.9	2368.4	2354.6	2344.2	2340.7	2344.2	2337.3
25°	2316.5	2309.6	2306.1	2302.6	2306.1	2302.6	2288.8	2274.9	2274.9	2274.9	2264.5
27.5°	2229.9	2223.0	2219.5	2219.5	2223.0	2216.1	2202.2	2188.4	2181.4	2181.4	2171.1
30°	2119.1	2119.1	2115.7	2112.2	2108.7	2108.7	2088.0	2074.1	2067.2	2070.6	2063.7
32.5°	1984.1	1980.6	1977.2	1966.8	1970.2	1966.8	1949.5	1939.1	1928.7	1921.8	1918.3
35°	1810.9	1810.9	1807.5	1807.5	1807.5	1804.0	1786.7	1776.3	1769.4	1765.9	1755.5
37.5°	1620.5	1617.0	1613.6	1613.6	1613.6	1613.6	1603.2	1592.8	1592.8	1589.3	1582.4
40°	1405.8	1409.3	1412.7	1409.3	1419.7	1430.1	1416.2	1409.3	1405.8	1416.2	1402.4
42.5°	1198.1	1194.6	1211.9	1215.4	1215.4	1232.7	1236.2	1239.6	1236.2	1243.1	1243.1
45°	997.2	993.8	1011.1	1018.0	1035.3	1056.1	1066.5	1083.8	1090.7	1097.6	1090.7
47.5°	806.8	820.6	834.5	851.8	865.7	900.3	921.1	938.4	945.3	955.7	955.7
50°	647.5	661.4	685.6	699.4	716.8	758.3	792.9	817.2	831.0	841.4	838.0
52.5°	498.6	522.9	554.0	567.9	592.1	640.6	678.7	706.4	723.7	734.1	737.5
55°	384.4	405.1	436.3	457.1	481.3	533.2	581.7	612.9	630.2	644.0	651.0
57.5°	283.9	308.2	342.8	360.1	387.8	446.7	488.2	526.3	547.1	564.4	567.9
60°	207.8	232.0	263.2	283.9	311.6	370.5	419.0	453.6	477.8	491.7	498.6
62.5°	148.9	173.1	204.3	225.1	249.3	301.2	349.7	384.4	408.6	425.9	436.3
65°	107.3	131.6	162.7	180.1	200.8	249.3	294.3	328.9	353.2	374.0	380.9
67.5°	79.6	97.0	124.7	142.0	162.7	200.8	238.9	270.1	294.3	311.6	318.6
70°	58.9	72.7	97.0	107.3	121.2	155.8	187.0	214.7	235.5	249.3	256.2
72.5°	41.6	51.9	69.3	79.6	90.0	117.7	142.0	162.7	176.6	190.4	197.4
75°	27.7	34.6	48.5	55.4	62.3	83.1	100.4	117.7	128.1	138.5	142.0
77.5°	17.3	24.2	34.6	38.1	45.0	55.4	69.3	79.6	86.6	93.5	100.4
80°	10.4	13.9	20.8	24.2	27.7	38.1	45.0	51.9	58.9	65.8	69.3
82.5°	6.9	10.4	13.9	13.9	17.3	20.8	27.7	34.6	38.1	41.6	45.0
85°	3.5	3.5	6.9	6.9	10.4	10.4	13.9	17.3	20.8	24.2	27.7
87.5°	3.5	3.5	3.5	3.5	6.9	6.9	10.4	10.4	10.4	13.9	13.9
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: P252736

CATALOG NUMBER: LD6B60D010TE EU6B60709050 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1
2.5°	2437.7	2448.1	2437.7	2444.6	2441.1	2441.1	2437.7	2441.1
5°	2448.1	2461.9	2448.1	2458.5	2451.5	2451.5	2451.5	2455.0
7.5°	2458.5	2472.3	2461.9	2472.3	2468.8	2465.4	2465.4	2472.3
10°	2468.8	2479.2	2472.3	2482.7	2479.2	2475.8	2475.8	2482.7
12.5°	2468.8	2482.7	2475.8	2486.2	2482.7	2479.2	2479.2	2482.7
15°	2458.5	2475.8	2465.4	2475.8	2472.3	2468.8	2468.8	2475.8
17.5°	2427.3	2441.1	2434.2	2441.1	2441.1	2437.7	2441.1	2444.6
20°	2385.7	2396.1	2389.2	2396.1	2396.1	2389.2	2392.7	2396.1
22.5°	2326.9	2337.3	2330.3	2337.3	2333.8	2330.3	2330.3	2326.9
25°	2254.2	2268.0	2257.6	2264.5	2257.6	2250.7	2250.7	2254.2
27.5°	2164.1	2174.5	2160.7	2167.6	2160.7	2153.7	2153.7	2150.3
30°	2046.4	2049.9	2039.5	2046.4	2039.5	2036.0	2029.1	2029.1
32.5°	1904.4	1907.9	1897.5	1897.5	1890.6	1890.6	1876.7	1887.1
35°	1738.2	1741.7	1738.2	1734.8	1724.4	1720.9	1717.5	1717.5
37.5°	1565.1	1565.1	1554.7	1551.3	1544.3	1537.4	1540.9	1530.5
40°	1388.5	1385.0	1374.7	1378.1	1374.7	1364.3	1360.8	1357.3
42.5°	1222.3	1222.3	1211.9	1215.4	1208.5	1205.0	1194.6	1198.1
45°	1076.9	1076.9	1066.5	1066.5	1063.0	1052.6	1056.1	1049.2
47.5°	945.3	945.3	941.8	941.8	931.4	928.0	928.0	928.0
50°	831.0	831.0	831.0	831.0	827.6	824.1	820.6	824.1
52.5°	734.1	741.0	737.5	737.5	734.1	730.6	727.1	727.1
55°	647.5	651.0	651.0	654.4	651.0	647.5	651.0	647.5
57.5°	571.3	578.3	578.3	578.3	578.3	578.3	574.8	571.3
60°	505.5	509.0	509.0	512.5	512.5	512.5	509.0	509.0
62.5°	439.8	446.7	450.1	450.1	453.6	450.1	450.1	450.1
65°	387.8	394.7	398.2	394.7	398.2	398.2	394.7	394.7
67.5°	325.5	332.4	332.4	332.4	332.4	335.9	332.4	332.4
70°	263.2	270.1	266.6	270.1	270.1	270.1	270.1	270.1
72.5°	200.8	204.3	207.8	207.8	211.2	207.8	207.8	207.8
75°	145.4	152.4	152.4	152.4	152.4	155.8	155.8	155.8
77.5°	103.9	107.3	107.3	110.8	110.8	110.8	110.8	114.3
80°	72.7	72.7	76.2	76.2	79.6	79.6	79.6	79.6
82.5°	48.5	51.9	51.9	51.9	51.9	51.9	51.9	51.9
85°	27.7	31.2	31.2	31.2	31.2	34.6	34.6	34.6
87.5°	17.3	17.3	17.3	17.3	17.3	17.3	13.9	13.9
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)