

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: P252405

Luminaire Tested: **LD6B50D010TE EU6B30508050 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252405
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: LD6B50D010TE 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: 5004.0 lumens
Efficiency: N/A
Efficacy: 85.1 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

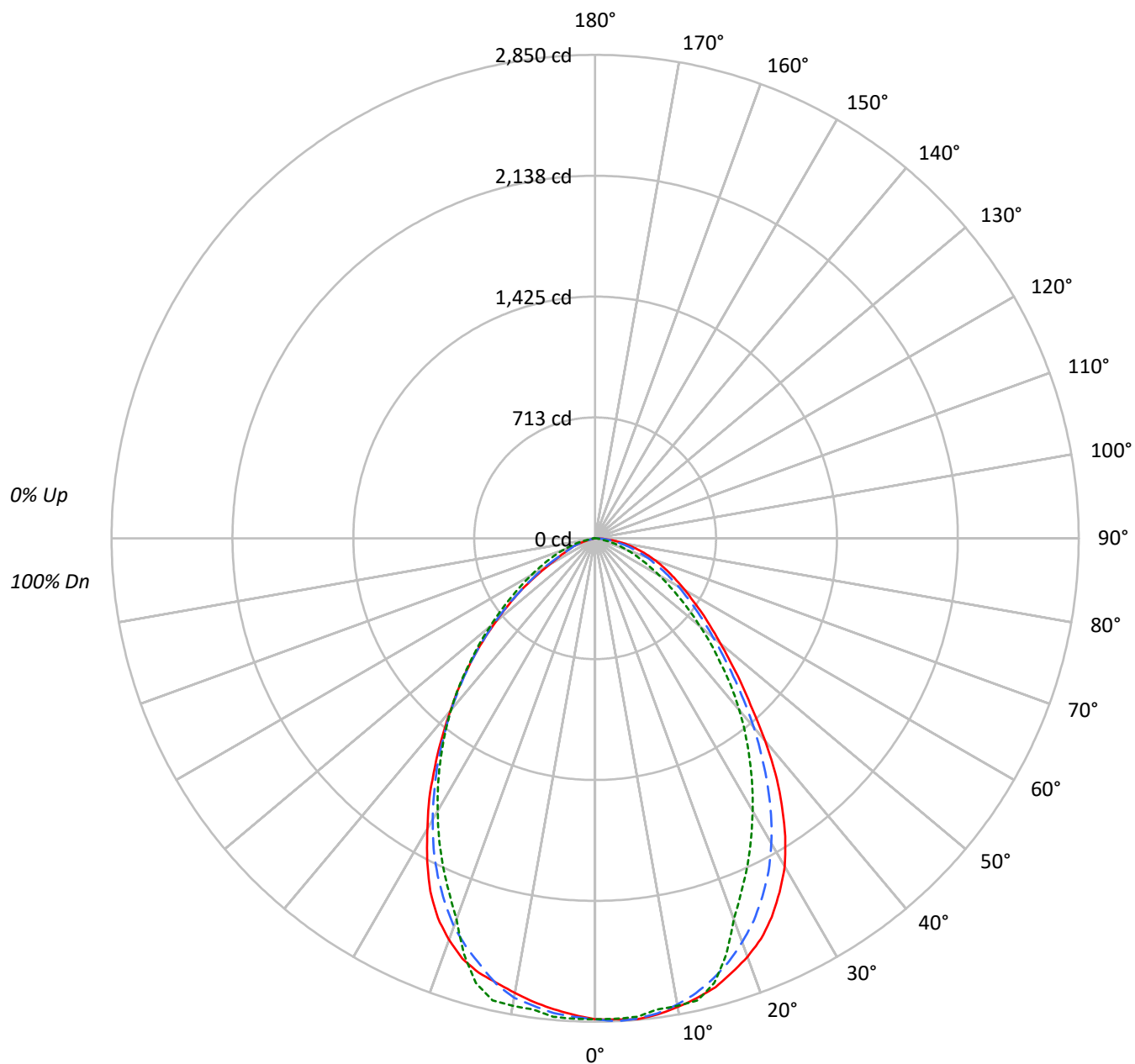
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	184977	184977	184977
5°	186410	185441	182546
10°	185883	185392	180272
15°	185038	183296	179068
20°	182275	165918	174860
25°	177328	152939	165400
30°	168378	139804	148964
35°	152789	126395	131094
40°	132654	112580	112896
45°	113134	96822	95807
50°	97914	81847	77361
55°	87537	68269	59897
60°	79750	56694	40358
65°	74469	46605	30134
70°	70940	37921	25294
75°	66824	26921	8344
80°	63645	13826	2780
85°	52399	8234	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.7	5.4
10°-20°	748.9	15.0
20°-30°	1033.7	20.7
30°-40°	1051.9	21.0
40°-50°	845.3	16.9
50°-60°	562.1	11.2
60°-70°	320.3	6.4
70°-80°	143.9	2.9
80°-90°	30.3	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°	2050.2	41.0
0°-40°	3102.1	62.0
0°-60°	4509.5	90.1
0°-90°	5004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5004.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2835	2835	2835	2835	2835	
5°	2846	2843	2832	2810	2787	270
15°	2740	2688	2714	2607	2651	771
25°	2463	2331	2125	2195	2298	1129
35°	1918	1771	1587	1616	1646	1192
45°	1226	1152	1049	1038	1038	951
55°	770	718	600	534	527	692
65°	482	431	302	195	195	481
75°	265	221	107	44	33	283
85°	70	48	11	4	0	83
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°	2835.3	2835.3	2835.3	2835.3	2835.3	2835.3	2835.3	2835.3	2835.3	2835.3	2835.3
2.5°	2839.0	2853.7	2850.0	2846.4	2850.0	2846.4	2839.0	2839.0	2831.6	2831.6	2850.0
5°	2846.4	2853.7	2850.0	2846.4	2846.4	2850.0	2835.3	2835.3	2827.9	2824.3	2842.7
7.5°	2831.6	2842.7	2835.3	2835.3	2831.6	2835.3	2820.6	2820.6	2809.5	2805.9	2824.3
10°	2805.9	2820.6	2813.2	2813.2	2813.2	2805.9	2798.5	2794.8	2783.8	2780.1	2791.1
12.5°	2776.4	2787.4	2783.8	2776.4	2776.4	2776.4	2761.7	2758.0	2743.3	2735.9	2746.9
15°	2739.6	2746.9	2743.3	2739.6	2732.2	2732.2	2717.5	2710.1	2695.4	2680.7	2688.0
17.5°	2684.3	2695.4	2688.0	2684.3	2673.3	2673.3	2658.6	2651.2	2629.1	2614.4	2618.1
20°	2625.4	2629.1	2625.4	2618.1	2607.0	2603.3	2588.6	2573.9	2555.5	2537.0	2533.4
22.5°	2555.5	2559.1	2548.1	2540.7	2529.7	2526.0	2507.6	2496.5	2467.1	2445.0	2441.3
25°	2463.4	2467.1	2467.1	2448.7	2441.3	2433.9	2415.5	2397.1	2371.3	2341.9	2330.8
27.5°	2352.9	2364.0	2356.6	2338.2	2323.5	2319.8	2301.4	2286.7	2253.5	2227.7	2213.0
30°	2235.1	2231.4	2227.7	2216.7	2194.6	2190.9	2172.5	2154.1	2128.3	2095.2	2076.8
32.5°	2084.1	2084.1	2080.5	2069.4	2047.3	2039.9	2025.2	2003.1	1973.7	1947.9	1929.5
35°	1918.4	1922.1	1918.4	1896.3	1881.6	1874.2	1866.9	1841.1	1815.3	1785.9	1771.1
37.5°	1745.4	1734.3	1738.0	1719.6	1701.2	1708.5	1686.5	1675.4	1646.0	1623.9	1609.1
40°	1557.6	1564.9	1550.2	1542.8	1531.8	1520.8	1520.8	1502.3	1487.6	1461.8	1454.5
42.5°	1373.5	1384.5	1380.8	1373.5	1358.7	1362.4	1344.0	1336.6	1318.2	1307.2	1296.1
45°	1226.2	1226.2	1226.2	1218.8	1215.1	1207.8	1196.7	1185.7	1174.6	1159.9	1152.5
47.5°	1082.6	1082.6	1086.3	1078.9	1071.5	1067.8	1060.5	1060.5	1042.1	1027.3	1020.0
50°	964.7	964.7	964.7	957.4	950.0	950.0	942.6	935.3	924.2	913.2	905.8
52.5°	858.0	858.0	858.0	850.6	846.9	843.2	839.5	835.9	821.1	813.8	806.4
55°	769.6	765.9	765.9	762.2	754.9	754.9	751.2	743.8	732.8	721.7	718.0
57.5°	681.2	684.9	681.2	681.2	673.8	673.8	666.5	662.8	651.8	644.4	637.0
60°	611.2	611.2	611.2	607.6	600.2	603.9	596.5	592.8	581.8	570.7	563.4
62.5°	541.3	545.0	545.0	541.3	533.9	533.9	530.2	526.6	515.5	504.5	493.4
65°	482.4	482.4	482.4	478.7	475.0	475.0	471.3	467.6	456.6	441.9	430.8
67.5°	427.1	423.5	423.5	423.5	419.8	416.1	412.4	408.7	397.7	386.6	371.9
70°	371.9	371.9	371.9	368.2	360.9	364.5	360.9	357.2	346.1	335.1	324.0
72.5°	320.4	320.4	316.7	313.0	313.0	309.3	309.3	305.6	294.6	279.8	268.8
75°	265.1	265.1	265.1	265.1	257.8	261.4	254.1	250.4	243.0	232.0	220.9
77.5°	217.3	217.3	217.3	213.6	209.9	209.9	206.2	202.5	191.5	184.1	169.4
80°	169.4	169.4	169.4	169.4	165.7	162.0	158.3	154.7	147.3	136.2	125.2
82.5°	125.2	125.2	121.5	121.5	121.5	117.8	114.1	110.5	103.1	95.7	88.4
85°	70.0	73.6	73.6	66.3	70.0	66.3	66.3	58.9	58.9	51.6	47.9
87.5°	25.8	22.1	22.1	22.1	22.1	22.1	22.1	18.4	18.4	18.4	14.7
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°	2835.3	2835.3	2835.3	2835.3	2835.3	2835.3	2835.3	2835.3	2835.3	2835.3	2835.3
2.5°	2835.3	2831.6	2846.4	2846.4	2824.3	2835.3	2839.0	2831.6	2831.6	2835.3	2824.3
5°	2827.9	2820.6	2835.3	2839.0	2816.9	2827.9	2831.6	2824.3	2827.9	2831.6	2816.9
7.5°	2802.2	2802.2	2813.2	2816.9	2794.8	2805.9	2805.9	2798.5	2802.2	2802.2	2791.1
10°	2776.4	2765.3	2776.4	2776.4	2758.0	2761.7	2769.0	2765.3	2780.1	2798.5	2798.5
12.5°	2728.5	2717.5	2735.9	2735.9	2724.8	2739.6	2758.0	2769.0	2783.8	2791.1	2769.0
15°	2669.6	2673.3	2706.4	2732.2	2721.2	2743.3	2761.7	2754.3	2735.9	2713.8	2680.7
17.5°	2592.3	2581.2	2610.7	2625.4	2610.7	2618.1	2632.8	2618.1	2588.6	2570.2	2526.0
20°	2503.9	2474.5	2474.5	2467.1	2441.3	2441.3	2437.6	2411.9	2400.8	2389.8	2371.3
22.5°	2404.5	2371.3	2360.3	2338.2	2316.1	2312.4	2301.4	2275.6	2260.9	2253.5	2231.4
25°	2290.3	2260.9	2242.5	2220.4	2187.2	2179.9	2168.8	2143.1	2135.7	2124.6	2106.2
27.5°	2172.5	2135.7	2109.9	2087.8	2058.4	2054.7	2032.6	2014.2	1999.4	1992.1	1977.4
30°	2036.3	1995.8	1977.4	1947.9	1925.8	1918.4	1900.0	1874.2	1863.2	1855.8	1844.8
32.5°	1885.3	1852.2	1833.7	1808.0	1778.5	1782.2	1760.1	1738.0	1730.6	1723.3	1712.2
35°	1738.0	1704.9	1682.8	1660.7	1642.3	1634.9	1620.2	1601.8	1590.7	1587.0	1579.7
37.5°	1576.0	1550.2	1531.8	1509.7	1495.0	1487.6	1480.3	1461.8	1454.5	1454.5	1439.7
40°	1417.7	1395.6	1380.8	1369.8	1351.4	1347.7	1340.3	1329.3	1325.6	1321.9	1310.9
42.5°	1274.0	1244.6	1233.5	1226.2	1215.1	1207.8	1204.1	1196.7	1193.0	1189.4	1178.3
45°	1137.8	1112.0	1101.0	1093.6	1082.6	1078.9	1075.2	1064.2	1056.8	1049.4	1045.8
47.5°	1005.2	986.8	983.2	964.7	957.4	950.0	942.6	935.3	931.6	927.9	913.2
50°	891.1	880.1	861.6	850.6	843.2	839.5	824.8	813.8	810.1	806.4	795.4
52.5°	788.0	773.3	762.2	743.8	740.1	732.8	725.4	710.7	703.3	699.6	688.6
55°	695.9	684.9	670.2	655.4	644.4	640.7	629.7	614.9	607.6	600.2	592.8
57.5°	618.6	600.2	585.5	570.7	563.4	552.3	541.3	533.9	522.9	511.8	500.8
60°	545.0	530.2	511.8	497.1	489.7	482.4	467.6	456.6	445.5	434.5	423.5
62.5°	475.0	460.3	441.9	427.1	419.8	412.4	397.7	386.6	375.6	364.5	349.8
65°	412.4	397.7	383.0	368.2	360.9	353.5	338.8	324.0	313.0	301.9	287.2
67.5°	360.9	342.4	327.7	313.0	305.6	298.3	283.5	272.5	257.8	246.7	232.0
70°	305.6	290.9	279.8	265.1	257.8	250.4	235.7	220.9	209.9	198.8	184.1
72.5°	257.8	239.3	228.3	213.6	206.2	202.5	187.8	176.7	165.7	151.0	139.9
75°	206.2	191.5	176.7	165.7	158.3	154.7	139.9	128.9	117.8	106.8	95.7
77.5°	158.3	147.3	132.6	121.5	114.1	110.5	95.7	84.7	73.6	66.3	55.2
80°	117.8	103.1	95.7	84.7	81.0	73.6	66.3	55.2	47.9	36.8	29.5
82.5°	81.0	70.0	62.6	55.2	51.6	47.9	40.5	33.1	25.8	22.1	18.4
85°	44.2	36.8	33.1	29.5	25.8	25.8	22.1	18.4	14.7	11.0	7.4
87.5°	14.7	11.0	11.0	11.0	11.0	7.4	7.4	7.4	3.7	3.7	3.7
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°	2835.3	2835.3	2835.3	2835.3	2835.3	2835.3	2835.3	2835.3	2835.3	2835.3	2835.3
2.5°	2831.6	2831.6	2831.6	2827.9	2827.9	2827.9	2824.3	2839.0	2824.3	2820.6	2831.6
5°	2827.9	2820.6	2820.6	2820.6	2820.6	2816.9	2813.2	2820.6	2809.5	2805.9	2805.9
7.5°	2805.9	2802.2	2802.2	2798.5	2794.8	2791.1	2787.4	2791.1	2780.1	2776.4	2776.4
10°	2809.5	2802.2	2802.2	2791.1	2783.8	2772.7	2761.7	2765.3	2750.6	2739.6	2739.6
12.5°	2765.3	2746.9	2735.9	2724.8	2717.5	2713.8	2699.1	2706.4	2691.7	2688.0	2688.0
15°	2665.9	2643.8	2625.4	2618.1	2618.1	2610.7	2599.6	2614.4	2607.0	2610.7	2629.1
17.5°	2511.3	2500.2	2489.2	2485.5	2489.2	2496.5	2503.9	2526.0	2526.0	2537.0	2555.5
20°	2375.0	2367.7	2375.0	2375.0	2378.7	2393.4	2408.2	2426.6	2433.9	2445.0	2470.8
22.5°	2242.5	2242.5	2249.8	2260.9	2257.2	2283.0	2286.7	2319.8	2319.8	2341.9	2364.0
25°	2113.6	2113.6	2121.0	2124.6	2132.0	2146.7	2161.5	2187.2	2194.6	2216.7	2235.1
27.5°	1988.4	1984.7	1984.7	1988.4	1995.8	2014.2	2021.5	2051.0	2062.0	2076.8	2095.2
30°	1848.5	1844.8	1852.2	1859.5	1855.8	1874.2	1885.3	1907.4	1914.8	1929.5	1944.2
32.5°	1715.9	1715.9	1715.9	1723.3	1723.3	1738.0	1738.0	1763.8	1763.8	1774.8	1789.6
35°	1579.7	1579.7	1583.4	1587.0	1590.7	1594.4	1598.1	1612.8	1616.5	1620.2	1627.5
37.5°	1450.8	1447.1	1450.8	1450.8	1443.4	1458.2	1458.2	1472.9	1461.8	1472.9	1476.6
40°	1318.2	1318.2	1314.6	1314.6	1314.6	1321.9	1314.6	1325.6	1318.2	1325.6	1321.9
42.5°	1182.0	1182.0	1174.6	1182.0	1178.3	1178.3	1178.3	1185.7	1174.6	1182.0	1185.7
45°	1045.8	1042.1	1042.1	1038.4	1038.4	1038.4	1042.1	1042.1	1038.4	1045.8	1045.8
47.5°	913.2	909.5	909.5	909.5	909.5	913.2	902.1	909.5	902.1	902.1	902.1
50°	799.0	795.4	791.7	788.0	784.3	784.3	780.6	780.6	773.3	769.6	765.9
52.5°	688.6	684.9	677.5	677.5	673.8	670.2	659.1	659.1	648.1	644.4	644.4
55°	589.2	578.1	574.4	567.1	567.1	559.7	552.3	545.0	533.9	526.6	526.6
57.5°	497.1	486.1	478.7	475.0	471.3	464.0	449.2	445.5	430.8	427.1	423.5
60°	416.1	405.0	394.0	386.6	383.0	371.9	357.2	349.8	342.4	331.4	320.4
62.5°	338.8	327.7	313.0	309.3	301.9	290.9	279.8	268.8	261.4	250.4	243.0
65°	272.5	261.4	250.4	243.0	235.7	224.6	213.6	202.5	195.2	191.5	187.8
67.5°	220.9	206.2	195.2	191.5	184.1	176.7	165.7	162.0	154.7	154.7	154.7
70°	173.1	162.0	151.0	147.3	143.6	136.2	128.9	128.9	128.9	128.9	128.9
72.5°	128.9	121.5	110.5	106.8	103.1	99.4	92.1	95.7	92.1	92.1	92.1
75°	81.0	73.6	66.3	62.6	58.9	55.2	51.6	47.9	44.2	40.5	40.5
77.5°	44.2	36.8	33.1	29.5	29.5	25.8	22.1	22.1	18.4	18.4	18.4
80°	25.8	22.1	18.4	14.7	14.7	11.0	11.0	11.0	11.0	7.4	7.4
82.5°	14.7	11.0	7.4	7.4	7.4	7.4	3.7	3.7	3.7	3.7	3.7
85°	7.4	7.4	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	0.0
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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: P252405

CATALOG NUMBER: LD6B50D010TE EU6B30508050 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2835.3	2835.3	2835.3	2835.3	2835.3	2835.3	2835.3	2835.3
2.5°	2813.2	2824.3	2813.2	2824.3	2824.3	2824.3	2824.3	2813.2
5°	2794.8	2802.2	2791.1	2798.5	2802.2	2798.5	2798.5	2787.4
7.5°	2761.7	2769.0	2758.0	2769.0	2772.7	2769.0	2765.3	2758.0
10°	2728.5	2732.2	2721.2	2728.5	2735.9	2735.9	2732.2	2721.2
12.5°	2677.0	2688.0	2677.0	2684.3	2691.7	2695.4	2695.4	2684.3
15°	2618.1	2636.5	2629.1	2640.2	2651.2	2654.9	2654.9	2651.2
17.5°	2559.1	2577.6	2566.5	2584.9	2596.0	2603.3	2607.0	2599.6
20°	2474.5	2496.5	2489.2	2503.9	2518.6	2529.7	2529.7	2518.6
22.5°	2364.0	2393.4	2389.8	2400.8	2419.2	2422.9	2430.3	2422.9
25°	2242.5	2264.6	2260.9	2271.9	2294.0	2294.0	2297.7	2297.7
27.5°	2102.5	2124.6	2121.0	2128.3	2143.1	2146.7	2150.4	2143.1
30°	1951.6	1962.6	1962.6	1973.7	1984.7	1988.4	1988.4	1977.4
32.5°	1785.9	1800.6	1808.0	1804.3	1815.3	1822.7	1819.0	1819.0
35°	1634.9	1638.6	1642.3	1646.0	1649.6	1657.0	1649.6	1646.0
37.5°	1472.9	1483.9	1476.6	1483.9	1491.3	1487.6	1483.9	1483.9
40°	1325.6	1329.3	1321.9	1329.3	1333.0	1333.0	1333.0	1325.6
42.5°	1178.3	1185.7	1178.3	1185.7	1185.7	1185.7	1185.7	1182.0
45°	1031.0	1038.4	1038.4	1042.1	1042.1	1038.4	1038.4	1038.4
47.5°	894.8	902.1	894.8	902.1	905.8	898.5	898.5	898.5
50°	765.9	762.2	762.2	765.9	765.9	765.9	765.9	762.2
52.5°	633.3	637.0	637.0	637.0	640.7	637.0	640.7	640.7
55°	519.2	519.2	519.2	522.9	519.2	519.2	522.9	526.6
57.5°	416.1	412.4	408.7	408.7	412.4	408.7	408.7	408.7
60°	320.4	316.7	313.0	313.0	313.0	313.0	313.0	309.3
62.5°	239.3	239.3	239.3	243.0	243.0	243.0	243.0	246.7
65°	191.5	191.5	191.5	191.5	191.5	191.5	191.5	195.2
67.5°	154.7	154.7	154.7	158.3	158.3	158.3	158.3	158.3
70°	128.9	128.9	132.6	128.9	132.6	132.6	132.6	132.6
72.5°	88.4	88.4	88.4	88.4	88.4	84.7	88.4	84.7
75°	36.8	36.8	36.8	36.8	36.8	36.8	36.8	33.1
77.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
80°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	3.7	3.7	3.7	3.7	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)