

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: P252526

Luminaire Tested: **LD6B60D010TE EU6B60709035 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252526
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 EU6B60709035 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4392.0 lumens
Efficiency: N/A
Efficacy: 70.3 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

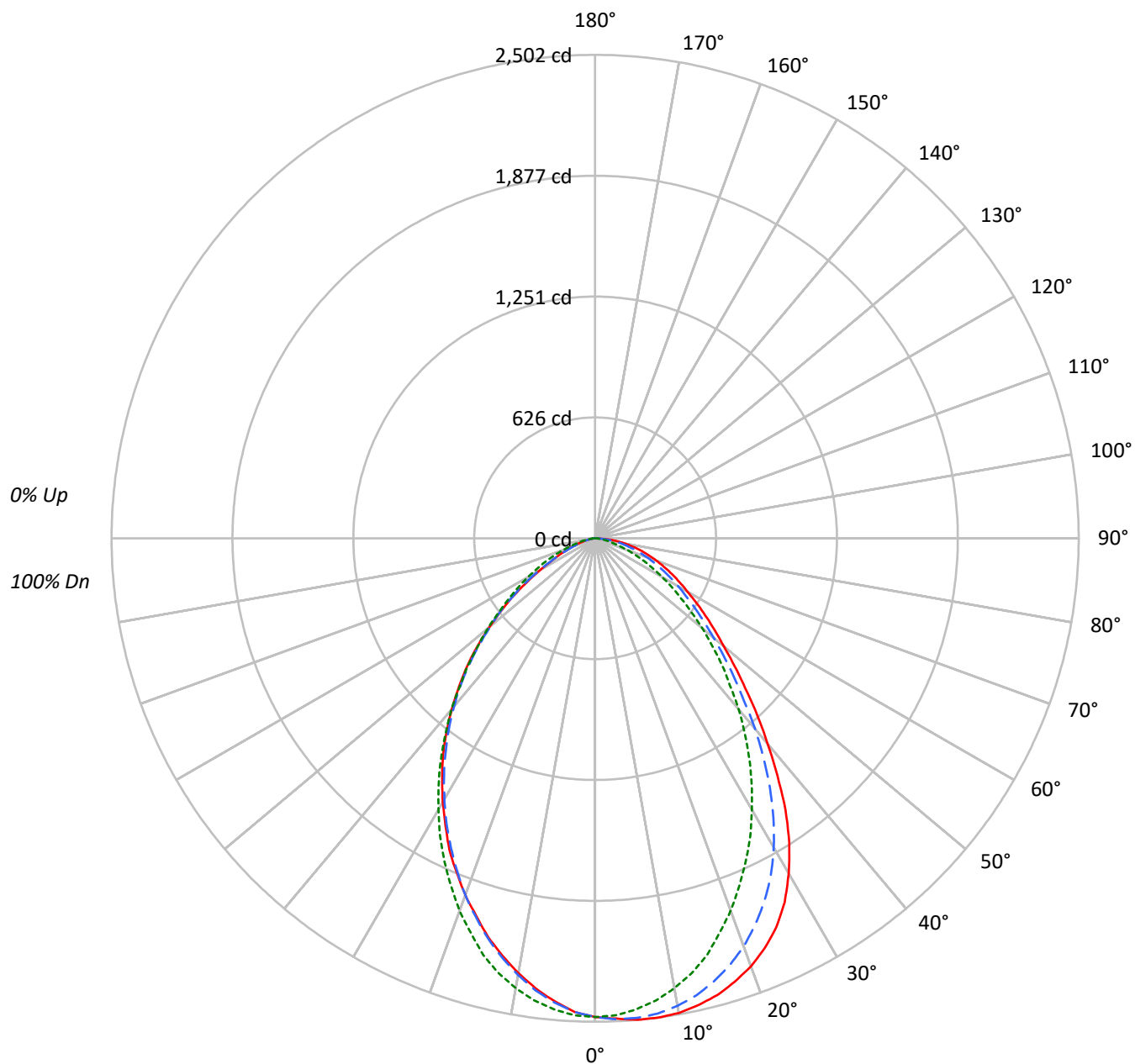
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252526

CATALOG NUMBER: LD6B60D010TE EU6B60709035 6LBLWW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252526

CATALOG NUMBER: LD6B60D010TE EU6B60709035 6LBLWW1H

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88		
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77		
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67		
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59		
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39		
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35		
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	161647	161647	161647
5°	163842	160241	157536
10°	165280	156621	151375
15°	165262	150848	144337
20°	163662	142396	136425
25°	159778	132776	128321
30°	150878	122108	118733
35°	136765	110729	109359
40°	118108	98477	98179
45°	101288	85732	86359
50°	88018	73351	72296
55°	79063	61842	57930
60°	71843	52088	42654
65°	67461	43024	31338
70°	64321	33477	22966
75°	61581	24300	15603
80°	58197	16794	10332
85°	51500	10330	5165



TEST NUMBER: P252526

CATALOG NUMBER: LD6B60D010TE EU6B60709035 6LBLWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.7	5.3
10°-20°	634.8	14.5
20°-30°	881.3	20.1
30°-40°	912.8	20.8
40°-50°	750.1	17.1
50°-60°	515.5	11.7
60°-70°	296.4	6.7
70°-80°	136.2	3.1
80°-90°	33.2	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°	1747.8	39.8
0°-40°	2660.6	60.6
0°-60°	3926.2	89.4
0°-90°	4392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4392.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2478	2478	2478	2478	2478	
5°	2502	2492	2447	2412	2406	238
15°	2447	2374	2233	2144	2137	689
25°	2220	2072	1844	1765	1783	1016
35°	1717	1576	1390	1349	1373	1065
45°	1098	1015	929	919	936	855
55°	695	630	544	513	509	626
65°	437	382	279	196	203	435
75°	244	193	96	62	62	258
85°	69	48	14	7	7	77
90°	0	0	0	0	0	



TEST NUMBER: P252526

CATALOG NUMBER: LD6B60D010TE EU6B60709035 6LBLWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2477.7	2477.7	2477.7	2477.7	2477.7	2477.7	2477.7	2477.7	2477.7	2477.7	2477.7
2.5°	2488.1	2508.7	2494.9	2491.5	2498.4	2498.4	2498.4	2488.1	2494.9	2484.6	2491.5
5°	2501.8	2519.0	2505.3	2498.4	2505.3	2508.7	2498.4	2491.5	2501.8	2488.1	2491.5
7.5°	2501.8	2519.0	2505.3	2501.8	2505.3	2505.3	2501.8	2488.1	2494.9	2481.2	2481.2
10°	2494.9	2508.7	2494.9	2488.1	2491.5	2488.1	2488.1	2470.9	2474.3	2457.1	2457.1
12.5°	2474.3	2491.5	2474.3	2467.4	2467.4	2467.4	2457.1	2443.3	2446.8	2426.1	2422.7
15°	2446.8	2460.5	2443.3	2436.4	2436.4	2433.0	2426.1	2405.5	2405.5	2384.8	2374.5
17.5°	2405.5	2419.2	2405.5	2395.1	2391.7	2384.8	2377.9	2357.3	2350.4	2326.3	2316.0
20°	2357.3	2367.6	2353.9	2343.5	2336.6	2329.8	2316.0	2295.3	2288.5	2264.4	2247.2
22.5°	2295.3	2309.1	2288.5	2278.1	2271.3	2260.9	2247.2	2226.5	2216.2	2185.2	2164.6
25°	2219.6	2226.5	2209.3	2199.0	2185.2	2178.3	2168.0	2140.5	2130.2	2095.8	2071.7
27.5°	2123.3	2130.2	2109.5	2102.6	2085.4	2078.5	2064.8	2040.7	2026.9	1992.5	1968.4
30°	2002.8	2009.7	1996.0	1985.6	1971.9	1958.1	1947.8	1923.7	1903.0	1868.6	1848.0
32.5°	1868.6	1879.0	1865.2	1851.4	1827.3	1830.8	1813.6	1789.5	1772.3	1741.3	1717.2
35°	1717.2	1724.1	1706.9	1703.4	1689.7	1675.9	1658.7	1641.5	1631.2	1596.8	1576.1
37.5°	1548.6	1565.8	1548.6	1534.8	1527.9	1517.6	1507.3	1483.2	1476.3	1455.7	1428.1
40°	1386.8	1397.2	1386.8	1373.1	1362.8	1362.8	1349.0	1335.2	1318.0	1297.4	1287.0
42.5°	1242.3	1235.4	1232.0	1225.1	1211.3	1207.9	1204.5	1187.2	1176.9	1156.3	1139.1
45°	1097.8	1101.2	1094.3	1090.9	1080.6	1073.7	1066.8	1053.0	1049.6	1028.9	1015.2
47.5°	977.3	973.9	967.0	967.0	960.1	953.2	946.4	936.0	932.6	915.4	901.6
50°	867.2	870.6	867.2	863.8	853.4	850.0	843.1	836.2	829.4	812.1	798.4
52.5°	777.7	774.3	770.9	770.9	760.5	757.1	750.2	743.3	736.4	719.2	708.9
55°	695.1	695.1	691.7	688.3	677.9	674.5	671.1	664.2	653.8	640.1	629.8
57.5°	619.4	619.4	616.0	612.6	605.7	605.7	598.8	591.9	585.0	571.3	557.5
60°	550.6	554.0	550.6	547.2	540.3	540.3	536.8	526.5	523.1	505.9	495.5
62.5°	492.1	492.1	492.1	488.7	485.2	478.3	478.3	468.0	461.1	450.8	437.0
65°	437.0	437.0	437.0	433.6	426.7	423.3	419.8	413.0	406.1	395.7	382.0
67.5°	385.4	385.4	385.4	382.0	375.1	371.7	368.2	364.8	354.5	344.1	330.4
70°	337.2	337.2	333.8	330.4	326.9	323.5	320.0	313.2	306.3	292.5	282.2
72.5°	289.1	289.1	289.1	282.2	278.7	278.7	271.9	268.4	261.5	247.8	237.4
75°	244.3	240.9	240.9	237.4	234.0	230.6	227.1	223.7	213.4	206.5	192.7
77.5°	199.6	199.6	196.2	192.7	192.7	189.3	185.8	178.9	175.5	165.2	154.9
80°	154.9	154.9	154.9	154.9	151.4	148.0	148.0	141.1	137.7	127.3	120.4
82.5°	117.0	113.6	113.6	113.6	110.1	106.7	106.7	103.2	99.8	92.9	86.0
85°	68.8	65.4	65.4	65.4	61.9	61.9	58.5	58.5	55.1	48.2	48.2
87.5°	20.6	20.6	24.1	24.1	20.6	20.6	20.6	20.6	20.6	17.2	17.2
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: P252526

CATALOG NUMBER: LD6B60D010TE EU6B60709035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2477.7	2477.7	2477.7	2477.7	2477.7	2477.7	2477.7	2477.7	2477.7	2477.7	2477.7
2.5°	2484.6	2494.9	2481.2	2477.7	2491.5	2484.6	2481.2	2474.3	2477.7	2470.9	2460.5
5°	2481.2	2494.9	2477.7	2467.4	2484.6	2474.3	2467.4	2460.5	2460.5	2446.8	2439.9
7.5°	2470.9	2477.7	2460.5	2450.2	2460.5	2450.2	2443.3	2433.0	2429.6	2412.4	2402.0
10°	2443.3	2450.2	2429.6	2415.8	2426.1	2412.4	2402.0	2391.7	2384.8	2364.2	2350.4
12.5°	2405.5	2408.9	2384.8	2367.6	2374.5	2364.2	2347.0	2333.2	2326.3	2305.7	2288.5
15°	2353.9	2357.3	2329.8	2305.7	2312.6	2298.8	2278.1	2264.4	2254.1	2233.4	2209.3
17.5°	2291.9	2288.5	2257.5	2233.4	2236.8	2219.6	2199.0	2178.3	2164.6	2140.5	2123.3
20°	2223.1	2212.8	2178.3	2150.8	2154.3	2133.6	2109.5	2088.9	2071.7	2051.0	2026.9
22.5°	2137.0	2123.3	2092.3	2057.9	2061.3	2044.1	2009.7	1992.5	1975.3	1947.8	1927.1
25°	2044.1	2023.5	1992.5	1958.1	1958.1	1937.5	1909.9	1889.3	1872.1	1844.5	1820.4
27.5°	1934.0	1923.7	1882.4	1854.9	1851.4	1830.8	1806.7	1782.6	1761.9	1737.9	1713.8
30°	1813.6	1796.4	1765.4	1734.4	1727.5	1710.3	1686.2	1658.7	1644.9	1620.9	1600.2
32.5°	1686.2	1669.0	1634.6	1603.6	1600.2	1586.4	1565.8	1538.3	1524.5	1507.3	1493.5
35°	1541.7	1534.8	1500.4	1476.3	1476.3	1462.6	1441.9	1417.8	1407.5	1390.3	1373.1
37.5°	1404.1	1393.7	1362.8	1342.1	1342.1	1324.9	1304.3	1293.9	1283.6	1269.8	1259.5
40°	1259.5	1252.6	1228.5	1207.9	1211.3	1197.6	1183.8	1170.0	1163.2	1156.3	1146.0
42.5°	1125.3	1118.4	1101.2	1084.0	1084.0	1073.7	1059.9	1049.6	1042.7	1032.4	1028.9
45°	1004.9	994.5	980.8	963.6	963.6	953.2	946.4	939.5	936.0	929.2	918.8
47.5°	887.9	881.0	867.2	850.0	850.0	850.0	836.2	825.9	825.9	819.0	815.6
50°	788.1	777.7	767.4	753.6	753.6	746.8	736.4	726.1	726.1	722.7	715.8
52.5°	695.1	688.3	674.5	660.7	660.7	653.8	643.5	640.1	636.6	626.3	622.9
55°	616.0	609.1	598.8	581.6	578.1	574.7	564.4	557.5	554.0	543.7	543.7
57.5°	543.7	536.8	519.6	509.3	505.9	499.0	488.7	481.8	478.3	471.5	464.6
60°	481.8	471.5	457.7	443.9	440.5	433.6	423.3	416.4	413.0	399.2	392.3
62.5°	423.3	413.0	399.2	385.4	382.0	375.1	361.3	354.5	347.6	333.8	326.9
65°	368.2	357.9	344.1	330.4	323.5	320.0	306.3	296.0	289.1	278.7	265.0
67.5°	316.6	306.3	292.5	275.3	275.3	265.0	254.7	244.3	234.0	223.7	213.4
70°	268.4	258.1	244.3	230.6	227.1	220.2	209.9	196.2	189.3	175.5	165.2
72.5°	223.7	213.4	199.6	185.8	182.4	175.5	165.2	151.4	141.1	130.8	120.4
75°	182.4	172.1	158.3	148.0	144.5	137.7	127.3	113.6	103.2	96.4	86.0
77.5°	144.5	134.2	123.9	113.6	110.1	103.2	92.9	86.0	75.7	68.8	58.5
80°	110.1	103.2	92.9	86.0	82.6	75.7	68.8	58.5	51.6	44.7	41.3
82.5°	79.1	72.3	65.4	55.1	55.1	48.2	44.7	37.9	31.0	27.5	24.1
85°	44.7	37.9	34.4	31.0	27.5	27.5	24.1	20.6	17.2	13.8	13.8
87.5°	13.8	13.8	10.3	10.3	10.3	10.3	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: P252526

CATALOG NUMBER: LD6B60D010TE EU6B60709035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2477.7	2477.7	2477.7	2477.7	2477.7	2477.7	2477.7	2477.7	2477.7	2477.7	2477.7
2.5°	2460.5	2464.0	2457.1	2464.0	2457.1	2460.5	2453.6	2460.5	2453.6	2460.5	2446.8
5°	2436.4	2436.4	2426.1	2433.0	2426.1	2429.6	2415.8	2419.2	2412.4	2419.2	2405.5
7.5°	2395.1	2398.6	2381.4	2388.3	2377.9	2377.9	2367.6	2371.1	2360.7	2364.2	2353.9
10°	2347.0	2343.5	2326.3	2333.2	2319.4	2319.4	2309.1	2309.1	2295.3	2298.8	2285.0
12.5°	2278.1	2274.7	2254.1	2260.9	2247.2	2247.2	2236.8	2236.8	2223.1	2230.0	2216.2
15°	2199.0	2195.6	2174.9	2178.3	2164.6	2164.6	2150.8	2154.3	2143.9	2150.8	2137.0
17.5°	2109.5	2106.1	2085.4	2088.9	2071.7	2075.1	2064.8	2061.3	2054.5	2057.9	2047.6
20°	2016.6	2009.7	1989.1	1992.5	1985.6	1975.3	1968.4	1971.9	1965.0	1971.9	1961.5
22.5°	1920.2	1906.5	1889.3	1889.3	1882.4	1882.4	1872.1	1879.0	1865.2	1875.5	1868.6
25°	1810.1	1799.8	1786.0	1792.9	1779.2	1779.2	1768.8	1772.3	1765.4	1772.3	1765.4
27.5°	1703.4	1696.6	1675.9	1682.8	1672.5	1675.9	1665.6	1669.0	1665.6	1672.5	1665.6
30°	1589.9	1586.4	1572.7	1572.7	1569.2	1565.8	1562.4	1562.4	1558.9	1569.2	1562.4
32.5°	1483.2	1472.9	1459.1	1469.4	1452.2	1462.6	1455.7	1462.6	1455.7	1462.6	1459.1
35°	1373.1	1369.6	1352.4	1355.9	1352.4	1352.4	1349.0	1349.0	1349.0	1359.3	1359.3
37.5°	1256.1	1252.6	1242.3	1245.8	1238.9	1235.4	1235.4	1242.3	1242.3	1249.2	1249.2
40°	1142.5	1146.0	1135.6	1135.6	1132.2	1132.2	1132.2	1139.1	1135.6	1142.5	1139.1
42.5°	1028.9	1028.9	1018.6	1022.1	1018.6	1022.1	1022.1	1028.9	1028.9	1032.4	1028.9
45°	922.3	922.3	918.8	922.3	915.4	918.8	915.4	922.3	918.8	922.3	922.3
47.5°	815.6	815.6	815.6	812.1	812.1	812.1	812.1	812.1	808.7	815.6	812.1
50°	715.8	719.2	715.8	715.8	712.3	715.8	712.3	712.3	705.5	708.9	708.9
52.5°	626.3	626.3	619.4	619.4	619.4	616.0	616.0	616.0	612.6	612.6	605.7
55°	540.3	540.3	533.4	533.4	530.0	526.5	523.1	523.1	512.8	512.8	502.4
57.5°	461.1	457.7	447.4	447.4	440.5	437.0	433.6	430.2	423.3	416.4	413.0
60°	388.9	382.0	375.1	371.7	364.8	357.9	351.0	344.1	337.2	333.8	330.4
62.5°	320.0	309.7	302.8	299.4	292.5	282.2	275.3	268.4	261.5	258.1	251.2
65°	258.1	247.8	237.4	234.0	227.1	220.2	209.9	203.0	196.2	192.7	192.7
67.5°	203.0	192.7	178.9	178.9	172.1	165.2	158.3	151.4	148.0	151.4	151.4
70°	151.4	144.5	134.2	130.8	123.9	117.0	113.6	113.6	113.6	117.0	113.6
72.5°	113.6	103.2	96.4	92.9	89.5	86.0	86.0	86.0	82.6	86.0	86.0
75°	79.1	72.3	65.4	65.4	61.9	61.9	61.9	61.9	61.9	61.9	61.9
77.5°	55.1	48.2	44.7	44.7	44.7	41.3	41.3	41.3	41.3	41.3	41.3
80°	34.4	34.4	31.0	31.0	27.5	27.5	27.5	27.5	27.5	27.5	27.5
82.5°	20.6	20.6	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
85°	10.3	10.3	10.3	10.3	10.3	6.9	6.9	6.9	6.9	6.9	6.9
87.5°	3.4	3.4	3.4	3.4	3.4	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: P252526

CATALOG NUMBER: LD6B60D010TE EU6B60709035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2477.7	2477.7	2477.7	2477.7	2477.7	2477.7	2477.7	2477.7
2.5°	2446.8	2457.1	2443.3	2453.6	2450.2	2446.8	2439.9	2453.6
5°	2405.5	2408.9	2395.1	2408.9	2405.5	2398.6	2391.7	2405.5
7.5°	2347.0	2357.3	2340.1	2353.9	2350.4	2343.5	2336.6	2350.4
10°	2281.6	2291.9	2278.1	2288.5	2288.5	2281.6	2271.3	2285.0
12.5°	2209.3	2216.2	2202.4	2216.2	2212.8	2205.9	2202.4	2212.8
15°	2130.2	2140.5	2126.7	2137.0	2133.6	2130.2	2126.7	2137.0
17.5°	2044.1	2054.5	2044.1	2054.5	2054.5	2044.1	2040.7	2047.6
20°	1958.1	1965.0	1954.7	1965.0	1961.5	1961.5	1954.7	1965.0
22.5°	1861.7	1872.1	1865.2	1872.1	1868.6	1868.6	1865.2	1872.1
25°	1765.4	1775.7	1765.4	1775.7	1772.3	1772.3	1765.4	1782.6
27.5°	1669.0	1675.9	1665.6	1679.4	1675.9	1669.0	1672.5	1675.9
30°	1565.8	1572.7	1565.8	1576.1	1576.1	1576.1	1569.2	1576.1
32.5°	1462.6	1472.9	1462.6	1472.9	1469.4	1469.4	1466.0	1472.9
35°	1359.3	1362.8	1355.9	1366.2	1366.2	1369.6	1362.8	1373.1
37.5°	1252.6	1256.1	1252.6	1256.1	1263.0	1252.6	1259.5	1263.0
40°	1142.5	1149.4	1146.0	1149.4	1149.4	1152.8	1149.4	1152.8
42.5°	1032.4	1039.3	1032.4	1042.7	1039.3	1039.3	1042.7	1042.7
45°	918.8	929.2	922.3	929.2	932.6	929.2	929.2	936.0
47.5°	812.1	819.0	815.6	819.0	819.0	819.0	819.0	825.9
50°	705.5	708.9	708.9	712.3	712.3	715.8	708.9	712.3
52.5°	598.8	605.7	605.7	605.7	602.2	605.7	605.7	605.7
55°	502.4	505.9	499.0	505.9	505.9	502.4	502.4	509.3
57.5°	409.5	409.5	409.5	409.5	409.5	406.1	409.5	409.5
60°	323.5	326.9	323.5	323.5	323.5	323.5	320.0	326.9
62.5°	251.2	251.2	247.8	251.2	251.2	251.2	254.7	254.7
65°	196.2	199.6	196.2	199.6	199.6	199.6	199.6	203.0
67.5°	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9
70°	117.0	117.0	117.0	120.4	117.0	117.0	117.0	120.4
72.5°	86.0	86.0	86.0	86.0	86.0	86.0	89.5	89.5
75°	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
77.5°	41.3	41.3	41.3	44.7	41.3	44.7	41.3	41.3
80°	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5
82.5°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
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	3.4	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)