

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: P252509

Luminaire Tested: **LD6B50D010TE EU6B30508050 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252509
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: LD6B50D010TE EU6B30508050 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4698.0 lumens
Efficiency: N/A
Efficacy: 79.9 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

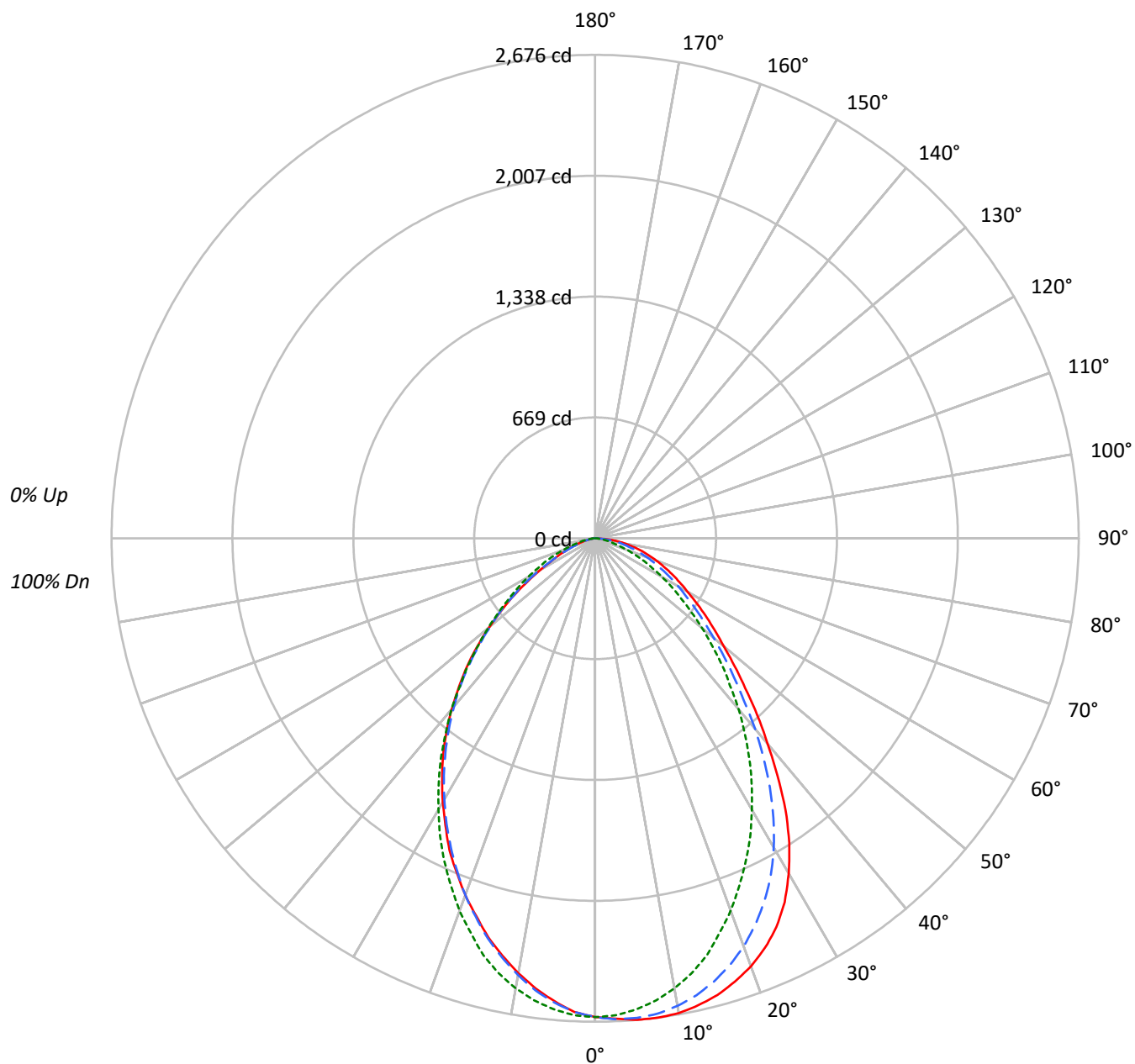
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
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°	172914	172914	172914
5°	175257	171400	168512
10°	176800	167532	161921
15°	176771	161358	154394
20°	175062	152317	145930
25°	170914	142034	137261
30°	161394	130613	127005
35°	146298	118447	116973
40°	126343	105333	105026
45°	108346	91701	92375
50°	94148	78457	77340
55°	84580	66153	61967
60°	76853	55715	45629
65°	72169	46034	33530
70°	68804	35804	24569
75°	65891	25988	16712
80°	62217	17996	11046
85°	55093	11004	5539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.9	5.3
10°-20°	679.0	14.5
20°-30°	942.7	20.1
30°-40°	976.4	20.8
40°-50°	802.4	17.1
50°-60°	551.5	11.7
60°-70°	317.0	6.7
70°-80°	145.7	3.1
80°-90°	35.5	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°	1869.6	39.8
0°-40°	2846.0	60.6
0°-60°	4199.8	89.4
0°-90°	4698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4698.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2650	2650	2650	2650	2650	
5°	2676	2665	2617	2580	2573	255
15°	2617	2540	2389	2293	2286	737
25°	2374	2216	1973	1888	1907	1086
35°	1837	1686	1487	1443	1469	1139
45°	1174	1086	994	983	1001	915
55°	744	674	582	548	545	669
65°	468	409	298	210	217	465
75°	261	206	103	66	66	276
85°	74	52	15	7	7	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°	2650.4	2650.4	2650.4	2650.4	2650.4	2650.4	2650.4	2650.4	2650.4	2650.4	2650.4
2.5°	2661.4	2683.5	2668.8	2665.1	2672.5	2672.5	2672.5	2661.4	2668.8	2657.7	2665.1
5°	2676.1	2694.5	2679.8	2672.5	2679.8	2683.5	2672.5	2665.1	2676.1	2661.4	2665.1
7.5°	2676.1	2694.5	2679.8	2676.1	2679.8	2679.8	2676.1	2661.4	2668.8	2654.0	2654.0
10°	2668.8	2683.5	2668.8	2661.4	2665.1	2661.4	2661.4	2643.0	2646.7	2628.3	2628.3
12.5°	2646.7	2665.1	2646.7	2639.3	2639.3	2639.3	2628.3	2613.6	2617.2	2595.2	2591.5
15°	2617.2	2632.0	2613.6	2606.2	2606.2	2602.5	2595.2	2573.1	2573.1	2551.0	2539.9
17.5°	2573.1	2587.8	2573.1	2562.0	2558.3	2551.0	2543.6	2521.5	2514.2	2488.4	2477.4
20°	2521.5	2532.6	2517.8	2506.8	2499.4	2492.1	2477.4	2455.3	2447.9	2422.1	2403.7
22.5°	2455.3	2470.0	2447.9	2436.9	2429.5	2418.5	2403.7	2381.6	2370.6	2337.5	2315.4
25°	2374.3	2381.6	2363.2	2352.2	2337.5	2330.1	2319.1	2289.6	2278.6	2241.8	2216.0
27.5°	2271.2	2278.6	2256.5	2249.1	2230.7	2223.4	2208.6	2182.9	2168.1	2131.3	2105.6
30°	2142.4	2149.7	2135.0	2124.0	2109.3	2094.5	2083.5	2057.7	2035.6	1998.8	1976.7
32.5°	1998.8	2009.9	1995.1	1980.4	1954.6	1958.3	1939.9	1914.2	1895.7	1862.6	1836.9
35°	1836.9	1844.2	1825.8	1822.1	1807.4	1792.7	1774.3	1755.9	1744.8	1708.0	1685.9
37.5°	1656.5	1674.9	1656.5	1641.8	1634.4	1623.4	1612.3	1586.5	1579.2	1557.1	1527.6
40°	1483.5	1494.5	1483.5	1468.7	1457.7	1457.7	1443.0	1428.3	1409.8	1387.8	1376.7
42.5°	1328.9	1321.5	1317.8	1310.5	1295.7	1292.1	1288.4	1270.0	1258.9	1236.8	1218.4
45°	1174.3	1177.9	1170.6	1166.9	1155.9	1148.5	1141.1	1126.4	1122.7	1100.6	1085.9
47.5°	1045.4	1041.7	1034.4	1034.4	1027.0	1019.7	1012.3	1001.2	997.6	979.2	964.4
50°	927.6	931.3	927.6	923.9	912.9	909.2	901.9	894.5	887.1	868.7	854.0
52.5°	831.9	828.2	824.6	824.6	813.5	809.8	802.5	795.1	787.7	769.3	758.3
55°	743.6	743.6	739.9	736.2	725.2	721.5	717.8	710.4	699.4	684.7	673.6
57.5°	662.6	662.6	658.9	655.2	647.9	647.9	640.5	633.1	625.8	611.1	596.3
60°	589.0	592.7	589.0	585.3	577.9	577.9	574.2	563.2	559.5	541.1	530.1
62.5°	526.4	526.4	526.4	522.7	519.0	511.7	511.7	500.6	493.3	482.2	467.5
65°	467.5	467.5	467.5	463.8	456.5	452.8	449.1	441.7	434.4	423.3	408.6
67.5°	412.3	412.3	412.3	408.6	401.2	397.6	393.9	390.2	379.1	368.1	353.4
70°	360.7	360.7	357.1	353.4	349.7	346.0	342.3	335.0	327.6	312.9	301.8
72.5°	309.2	309.2	309.2	301.8	298.2	298.2	290.8	287.1	279.8	265.0	254.0
75°	261.4	257.7	257.7	254.0	250.3	246.6	243.0	239.3	228.2	220.9	206.1
77.5°	213.5	213.5	209.8	206.1	206.1	202.5	198.8	191.4	187.7	176.7	165.6
80°	165.6	165.6	165.6	165.6	162.0	158.3	158.3	150.9	147.2	136.2	128.8
82.5°	125.2	121.5	121.5	121.5	117.8	114.1	114.1	110.4	106.8	99.4	92.0
85°	73.6	69.9	69.9	69.9	66.3	66.3	62.6	62.6	58.9	51.5	51.5
87.5°	22.1	22.1	25.8	25.8	22.1	22.1	22.1	22.1	22.1	18.4	18.4
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°	2650.4	2650.4	2650.4	2650.4	2650.4	2650.4	2650.4	2650.4	2650.4	2650.4	2650.4
2.5°	2657.7	2668.8	2654.0	2650.4	2665.1	2657.7	2654.0	2646.7	2650.4	2643.0	2632.0
5°	2654.0	2668.8	2650.4	2639.3	2657.7	2646.7	2639.3	2632.0	2632.0	2617.2	2609.9
7.5°	2643.0	2650.4	2632.0	2620.9	2632.0	2620.9	2613.6	2602.5	2598.8	2580.4	2569.4
10°	2613.6	2620.9	2598.8	2584.1	2595.2	2580.4	2569.4	2558.3	2551.0	2528.9	2514.2
12.5°	2573.1	2576.7	2551.0	2532.6	2539.9	2528.9	2510.5	2495.8	2488.4	2466.3	2447.9
15°	2517.8	2521.5	2492.1	2466.3	2473.7	2459.0	2436.9	2422.1	2411.1	2389.0	2363.2
17.5°	2451.6	2447.9	2414.8	2389.0	2392.7	2374.3	2352.2	2330.1	2315.4	2289.6	2271.2
20°	2378.0	2366.9	2330.1	2300.7	2304.3	2282.3	2256.5	2234.4	2216.0	2193.9	2168.1
22.5°	2285.9	2271.2	2238.1	2201.3	2205.0	2186.6	2149.7	2131.3	2112.9	2083.5	2061.4
25°	2186.6	2164.5	2131.3	2094.5	2094.5	2072.4	2043.0	2020.9	2002.5	1973.1	1947.3
27.5°	2068.8	2057.7	2013.5	1984.1	1980.4	1958.3	1932.6	1906.8	1884.7	1858.9	1833.2
30°	1939.9	1921.5	1888.4	1855.3	1847.9	1829.5	1803.7	1774.3	1759.5	1733.8	1711.7
32.5°	1803.7	1785.3	1748.5	1715.4	1711.7	1697.0	1674.9	1645.4	1630.7	1612.3	1597.6
35°	1649.1	1641.8	1604.9	1579.2	1579.2	1564.5	1542.4	1516.6	1505.6	1487.2	1468.7
37.5°	1501.9	1490.8	1457.7	1435.6	1435.6	1417.2	1395.1	1384.1	1373.0	1358.3	1347.3
40°	1347.3	1339.9	1314.1	1292.1	1295.7	1281.0	1266.3	1251.6	1244.2	1236.8	1225.8
42.5°	1203.7	1196.3	1177.9	1159.5	1159.5	1148.5	1133.8	1122.7	1115.4	1104.3	1100.6
45°	1074.9	1063.8	1049.1	1030.7	1030.7	1019.7	1012.3	1004.9	1001.2	993.9	982.8
47.5°	949.7	942.4	927.6	909.2	909.2	909.2	894.5	883.5	883.5	876.1	872.4
50°	843.0	831.9	820.9	806.2	806.2	798.8	787.7	776.7	776.7	773.0	765.7
52.5°	743.6	736.2	721.5	706.8	706.8	699.4	688.4	684.7	681.0	670.0	666.3
55°	658.9	651.5	640.5	622.1	618.4	614.7	603.7	596.3	592.7	581.6	581.6
57.5°	581.6	574.2	555.8	544.8	541.1	533.8	522.7	515.3	511.7	504.3	496.9
60°	515.3	504.3	489.6	474.9	471.2	463.8	452.8	445.4	441.7	427.0	419.6
62.5°	452.8	441.7	427.0	412.3	408.6	401.2	386.5	379.1	371.8	357.1	349.7
65°	393.9	382.8	368.1	353.4	346.0	342.3	327.6	316.6	309.2	298.2	283.4
67.5°	338.7	327.6	312.9	294.5	294.5	283.4	272.4	261.4	250.3	239.3	228.2
70°	287.1	276.1	261.4	246.6	243.0	235.6	224.5	209.8	202.5	187.7	176.7
72.5°	239.3	228.2	213.5	198.8	195.1	187.7	176.7	162.0	150.9	139.9	128.8
75°	195.1	184.1	169.3	158.3	154.6	147.2	136.2	121.5	110.4	103.1	92.0
77.5°	154.6	143.6	132.5	121.5	117.8	110.4	99.4	92.0	81.0	73.6	62.6
80°	117.8	110.4	99.4	92.0	88.3	81.0	73.6	62.6	55.2	47.9	44.2
82.5°	84.7	77.3	69.9	58.9	58.9	51.5	47.9	40.5	33.1	29.4	25.8
85°	47.9	40.5	36.8	33.1	29.4	29.4	25.8	22.1	18.4	14.7	14.7
87.5°	14.7	14.7	11.0	11.0	11.0	11.0	7.4	7.4	7.4	7.4	7.4
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2650.4	2650.4	2650.4	2650.4	2650.4	2650.4	2650.4	2650.4	2650.4	2650.4	2650.4
2.5°	2632.0	2635.6	2628.3	2635.6	2628.3	2632.0	2624.6	2632.0	2624.6	2632.0	2617.2
5°	2606.2	2606.2	2595.2	2602.5	2595.2	2598.8	2584.1	2587.8	2580.4	2587.8	2573.1
7.5°	2562.0	2565.7	2547.3	2554.7	2543.6	2543.6	2532.6	2536.3	2525.2	2528.9	2517.8
10°	2510.5	2506.8	2488.4	2495.8	2481.0	2481.0	2470.0	2470.0	2455.3	2459.0	2444.2
12.5°	2436.9	2433.2	2411.1	2418.5	2403.7	2403.7	2392.7	2392.7	2378.0	2385.3	2370.6
15°	2352.2	2348.5	2326.4	2330.1	2315.4	2315.4	2300.7	2304.3	2293.3	2300.7	2285.9
17.5°	2256.5	2252.8	2230.7	2234.4	2216.0	2219.7	2208.6	2205.0	2197.6	2201.3	2190.2
20°	2157.1	2149.7	2127.7	2131.3	2124.0	2112.9	2105.6	2109.3	2101.9	2109.3	2098.2
22.5°	2054.0	2039.3	2020.9	2020.9	2013.5	2013.5	2002.5	2009.9	1995.1	2006.2	1998.8
25°	1936.2	1925.2	1910.5	1917.8	1903.1	1903.1	1892.1	1895.7	1888.4	1895.7	1888.4
27.5°	1822.1	1814.8	1792.7	1800.0	1789.0	1792.7	1781.6	1785.3	1781.6	1789.0	1781.6
30°	1700.7	1697.0	1682.2	1682.2	1678.6	1674.9	1671.2	1671.2	1667.5	1678.6	1671.2
32.5°	1586.5	1575.5	1560.8	1571.8	1553.4	1564.5	1557.1	1564.5	1557.1	1564.5	1560.8
35°	1468.7	1465.1	1446.7	1450.3	1446.7	1446.7	1443.0	1443.0	1443.0	1454.0	1454.0
37.5°	1343.6	1339.9	1328.9	1332.5	1325.2	1321.5	1321.5	1328.9	1328.9	1336.2	1336.2
40°	1222.1	1225.8	1214.8	1214.8	1211.1	1211.1	1211.1	1218.4	1214.8	1222.1	1218.4
42.5°	1100.6	1100.6	1089.6	1093.3	1089.6	1093.3	1093.3	1100.6	1100.6	1104.3	1100.6
45°	986.5	986.5	982.8	986.5	979.2	982.8	979.2	986.5	982.8	986.5	986.5
47.5°	872.4	872.4	872.4	868.7	868.7	868.7	868.7	868.7	865.1	872.4	868.7
50°	765.7	769.3	765.7	765.7	762.0	765.7	762.0	762.0	754.6	758.3	758.3
52.5°	670.0	670.0	662.6	662.6	662.6	658.9	658.9	658.9	655.2	655.2	647.9
55°	577.9	577.9	570.6	570.6	566.9	563.2	559.5	559.5	548.5	548.5	537.4
57.5°	493.3	489.6	478.5	478.5	471.2	467.5	463.8	460.1	452.8	445.4	441.7
60°	416.0	408.6	401.2	397.6	390.2	382.8	375.5	368.1	360.7	357.1	353.4
62.5°	342.3	331.3	323.9	320.3	312.9	301.8	294.5	287.1	279.8	276.1	268.7
65°	276.1	265.0	254.0	250.3	243.0	235.6	224.5	217.2	209.8	206.1	206.1
67.5°	217.2	206.1	191.4	191.4	184.1	176.7	169.3	162.0	158.3	162.0	162.0
70°	162.0	154.6	143.6	139.9	132.5	125.2	121.5	121.5	121.5	125.2	121.5
72.5°	121.5	110.4	103.1	99.4	95.7	92.0	92.0	92.0	88.3	92.0	92.0
75°	84.7	77.3	69.9	69.9	66.3	66.3	66.3	66.3	66.3	66.3	66.3
77.5°	58.9	51.5	47.9	47.9	47.9	44.2	44.2	44.2	44.2	44.2	44.2
80°	36.8	36.8	33.1	33.1	29.4	29.4	29.4	29.4	29.4	29.4	29.4
82.5°	22.1	22.1	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
85°	11.0	11.0	11.0	11.0	11.0	7.4	7.4	7.4	7.4	7.4	7.4
87.5°	3.7	3.7	3.7	3.7	3.7	7.4	7.4	7.4	7.4	7.4	7.4
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: P252509

CATALOG NUMBER: LD6B50D010TE EU6B30508050 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2650.4	2650.4	2650.4	2650.4	2650.4	2650.4	2650.4	2650.4
2.5°	2617.2	2628.3	2613.6	2624.6	2620.9	2617.2	2609.9	2624.6
5°	2573.1	2576.7	2562.0	2576.7	2573.1	2565.7	2558.3	2573.1
7.5°	2510.5	2521.5	2503.1	2517.8	2514.2	2506.8	2499.4	2514.2
10°	2440.5	2451.6	2436.9	2447.9	2447.9	2440.5	2429.5	2444.2
12.5°	2363.2	2370.6	2355.9	2370.6	2366.9	2359.6	2355.9	2366.9
15°	2278.6	2289.6	2274.9	2285.9	2282.3	2278.6	2274.9	2285.9
17.5°	2186.6	2197.6	2186.6	2197.6	2197.6	2186.6	2182.9	2190.2
20°	2094.5	2101.9	2090.8	2101.9	2098.2	2098.2	2090.8	2101.9
22.5°	1991.5	2002.5	1995.1	2002.5	1998.8	1998.8	1995.1	2002.5
25°	1888.4	1899.4	1888.4	1899.4	1895.7	1895.7	1888.4	1906.8
27.5°	1785.3	1792.7	1781.6	1796.4	1792.7	1785.3	1789.0	1792.7
30°	1674.9	1682.2	1674.9	1685.9	1685.9	1685.9	1678.6	1685.9
32.5°	1564.5	1575.5	1564.5	1575.5	1571.8	1571.8	1568.1	1575.5
35°	1454.0	1457.7	1450.3	1461.4	1461.4	1465.1	1457.7	1468.7
37.5°	1339.9	1343.6	1339.9	1343.6	1351.0	1339.9	1347.3	1351.0
40°	1222.1	1229.5	1225.8	1229.5	1229.5	1233.2	1229.5	1233.2
42.5°	1104.3	1111.7	1104.3	1115.4	1111.7	1111.7	1115.4	1115.4
45°	982.8	993.9	986.5	993.9	997.6	993.9	993.9	1001.2
47.5°	868.7	876.1	872.4	876.1	876.1	876.1	876.1	883.5
50°	754.6	758.3	758.3	762.0	762.0	765.7	758.3	762.0
52.5°	640.5	647.9	647.9	647.9	644.2	647.9	647.9	647.9
55°	537.4	541.1	533.8	541.1	541.1	537.4	537.4	544.8
57.5°	438.0	438.0	438.0	438.0	438.0	434.4	438.0	438.0
60°	346.0	349.7	346.0	346.0	346.0	346.0	342.3	349.7
62.5°	268.7	268.7	265.0	268.7	268.7	268.7	272.4	272.4
65°	209.8	213.5	209.8	213.5	213.5	213.5	213.5	217.2
67.5°	165.6	165.6	165.6	165.6	165.6	165.6	165.6	165.6
70°	125.2	125.2	125.2	128.8	125.2	125.2	125.2	128.8
72.5°	92.0	92.0	92.0	92.0	92.0	92.0	95.7	95.7
75°	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
77.5°	44.2	44.2	44.2	47.9	44.2	47.9	44.2	44.2
80°	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
82.5°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
85°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
87.5°	7.4	7.4	7.4	7.4	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



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)