

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: P252417

Luminaire Tested: **LD6B60D010TE EU6B60708040 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252417
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: LD6B60D010TE EU6B60708040 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5594.0 lumens
Efficiency: N/A
Efficacy: 89.5 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

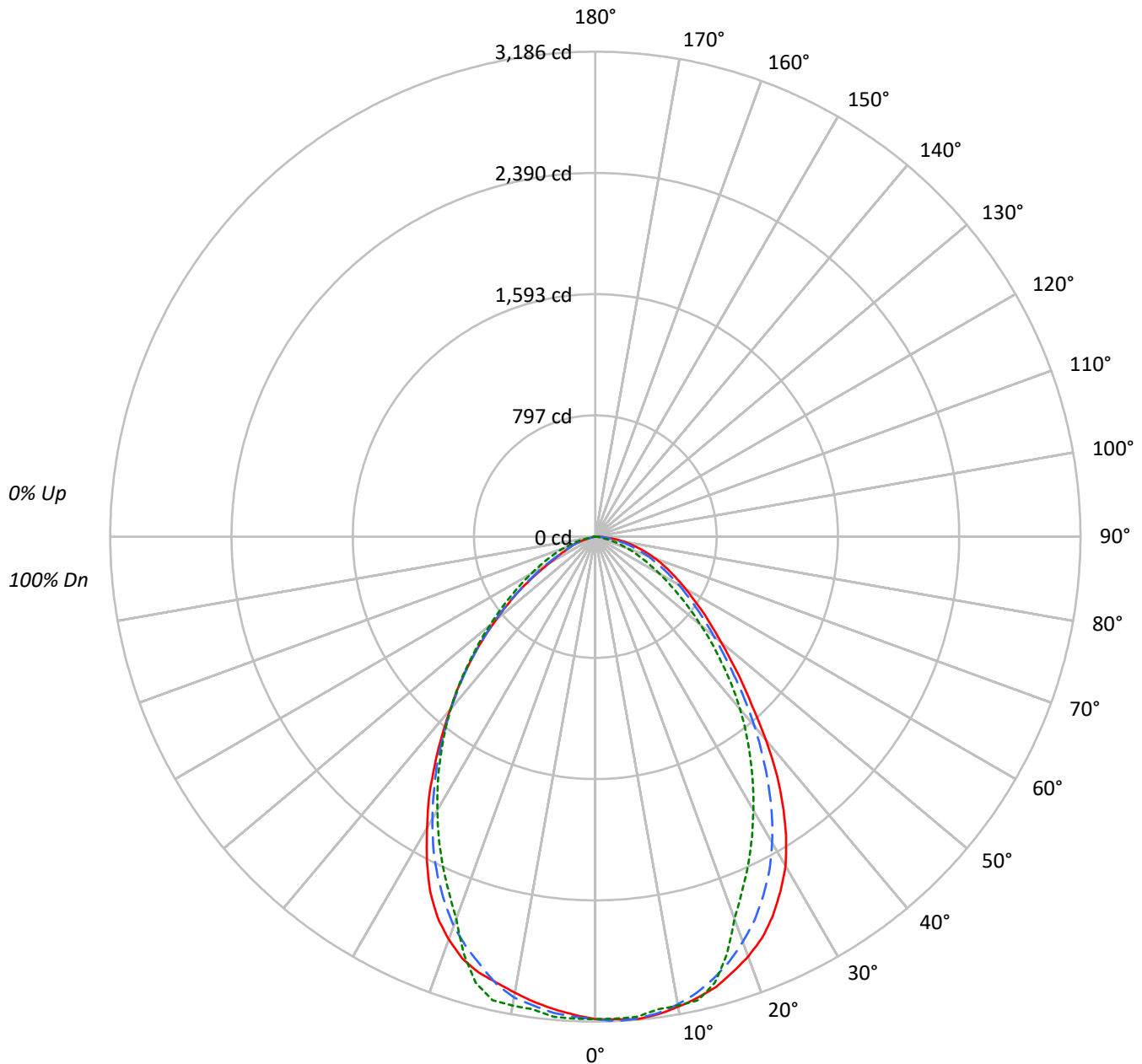
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	206787	206787	206787
5°	208389	207308	204073
10°	207797	207247	201524
15°	206854	204909	200181
20°	203770	185476	195480
25°	198240	170972	184901
30°	188228	156294	166524
35°	170805	141305	146545
40°	148290	125858	126207
45°	126476	108244	107100
50°	109464	91499	86485
55°	97854	76322	66949
60°	89158	63375	45120
65°	83238	52101	33684
70°	79314	42404	28269
75°	74714	30097	9327
80°	71159	15479	3081
85°	58537	9207	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.3	5.4
10°-20°	837.2	15.0
20°-30°	1155.5	20.7
30°-40°	1175.9	21.0
40°-50°	945.0	16.9
50°-60°	628.4	11.2
60°-70°	358.1	6.4
70°-80°	160.8	2.9
80°-90°	33.9	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°	2292.0	41.0
0°-40°	3467.9	62.0
0°-60°	5041.2	90.1
0°-90°	5594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5594.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3170	3170	3170	3170	3170	
5°	3182	3178	3166	3141	3116	302
15°	3063	3005	3034	2914	2964	862
25°	2754	2606	2375	2453	2569	1262
35°	2145	1980	1774	1807	1840	1333
45°	1371	1288	1173	1161	1161	1063
55°	860	803	671	597	589	773
65°	539	482	338	218	218	537
75°	296	247	119	49	37	316
85°	78	54	12	4	0	93
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°	3169.6	3169.6	3169.6	3169.6	3169.6	3169.6	3169.6	3169.6	3169.6	3169.6	3169.6
2.5°	3173.7	3190.2	3186.1	3182.0	3186.1	3182.0	3173.7	3173.7	3165.5	3165.5	3186.1
5°	3182.0	3190.2	3186.1	3182.0	3182.0	3186.1	3169.6	3169.6	3161.4	3157.3	3177.8
7.5°	3165.5	3177.8	3169.6	3169.6	3165.5	3169.6	3153.1	3153.1	3140.8	3136.7	3157.3
10°	3136.7	3153.1	3144.9	3144.9	3144.9	3136.7	3128.4	3124.3	3112.0	3107.9	3120.2
12.5°	3103.7	3116.1	3112.0	3103.7	3103.7	3103.7	3087.3	3083.2	3066.7	3058.5	3070.8
15°	3062.6	3070.8	3066.7	3062.6	3054.3	3054.3	3037.9	3029.7	3013.2	2996.7	3005.0
17.5°	3000.8	3013.2	3005.0	3000.8	2988.5	2988.5	2972.0	2963.8	2939.1	2922.6	2926.7
20°	2935.0	2939.1	2935.0	2926.7	2914.4	2910.3	2893.8	2877.3	2856.8	2836.2	2832.1
22.5°	2856.8	2860.9	2848.5	2840.3	2827.9	2823.8	2803.2	2790.9	2758.0	2733.3	2729.2
25°	2753.9	2758.0	2758.0	2737.4	2729.2	2720.9	2700.3	2679.8	2650.9	2618.0	2605.7
27.5°	2630.4	2642.7	2634.5	2613.9	2597.4	2593.3	2572.7	2556.3	2519.2	2490.4	2473.9
30°	2498.6	2494.5	2490.4	2478.1	2453.4	2449.2	2428.7	2408.1	2379.3	2342.2	2321.6
32.5°	2329.9	2329.9	2325.8	2313.4	2288.7	2280.5	2264.0	2239.3	2206.4	2177.6	2157.0
35°	2144.6	2148.7	2144.6	2119.9	2103.5	2095.2	2087.0	2058.2	2029.4	1996.4	1980.0
37.5°	1951.2	1938.8	1942.9	1922.3	1901.8	1910.0	1885.3	1872.9	1840.0	1815.3	1798.9
40°	1741.2	1749.5	1733.0	1724.8	1712.4	1700.1	1700.1	1679.5	1663.0	1634.2	1626.0
42.5°	1535.4	1547.8	1543.6	1535.4	1518.9	1523.1	1502.5	1494.2	1473.7	1461.3	1449.0
45°	1370.8	1370.8	1370.8	1362.5	1358.4	1350.2	1337.8	1325.5	1313.1	1296.7	1288.4
47.5°	1210.2	1210.2	1214.3	1206.1	1197.9	1193.7	1185.5	1185.5	1164.9	1148.5	1140.2
50°	1078.5	1078.5	1078.5	1070.3	1062.0	1062.0	1053.8	1045.6	1033.2	1020.9	1012.6
52.5°	959.1	959.1	959.1	950.9	946.8	942.6	938.5	934.4	918.0	909.7	901.5
55°	860.3	856.2	856.2	852.1	843.9	843.9	839.7	831.5	819.2	806.8	802.7
57.5°	761.5	765.6	761.5	761.5	753.3	753.3	745.1	740.9	728.6	720.4	712.1
60°	683.3	683.3	683.3	679.2	671.0	675.1	666.9	662.7	650.4	638.0	629.8
62.5°	605.1	609.2	609.2	605.1	596.9	596.9	592.8	588.6	576.3	563.9	551.6
65°	539.2	539.2	539.2	535.1	531.0	531.0	526.9	522.8	510.4	494.0	481.6
67.5°	477.5	473.4	473.4	473.4	469.3	465.2	461.0	456.9	444.6	432.2	415.8
70°	415.8	415.8	415.8	411.6	403.4	407.5	403.4	399.3	386.9	374.6	362.2
72.5°	358.1	358.1	354.0	349.9	349.9	345.8	345.8	341.7	329.3	312.8	300.5
75°	296.4	296.4	296.4	296.4	288.1	292.3	284.0	279.9	271.7	259.3	247.0
77.5°	242.9	242.9	242.9	238.7	234.6	234.6	230.5	226.4	214.1	205.8	189.4
80°	189.4	189.4	189.4	189.4	185.2	181.1	177.0	172.9	164.7	152.3	140.0
82.5°	140.0	140.0	135.8	135.8	135.8	131.7	127.6	123.5	115.3	107.0	98.8
85°	78.2	82.3	82.3	74.1	78.2	74.1	74.1	65.9	65.9	57.6	53.5
87.5°	28.8	24.7	24.7	24.7	24.7	24.7	24.7	20.6	20.6	20.6	16.5
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3169.6	3169.6	3169.6	3169.6	3169.6	3169.6	3169.6	3169.6	3169.6	3169.6	3169.6
2.5°	3169.6	3165.5	3182.0	3182.0	3157.3	3169.6	3173.7	3165.5	3165.5	3169.6	3157.3
5°	3161.4	3153.1	3169.6	3173.7	3149.0	3161.4	3165.5	3157.3	3161.4	3165.5	3149.0
7.5°	3132.6	3132.6	3144.9	3149.0	3124.3	3136.7	3136.7	3128.4	3132.6	3132.6	3120.2
10°	3103.7	3091.4	3103.7	3103.7	3083.2	3087.3	3095.5	3091.4	3107.9	3128.4	3128.4
12.5°	3050.2	3037.9	3058.5	3058.5	3046.1	3062.6	3083.2	3095.5	3112.0	3120.2	3095.5
15°	2984.4	2988.5	3025.5	3054.3	3042.0	3066.7	3087.3	3079.0	3058.5	3033.8	2996.7
17.5°	2897.9	2885.6	2918.5	2935.0	2918.5	2926.7	2943.2	2926.7	2893.8	2873.2	2823.8
20°	2799.1	2766.2	2766.2	2758.0	2729.2	2729.2	2725.0	2696.2	2683.9	2671.5	2650.9
22.5°	2688.0	2650.9	2638.6	2613.9	2589.2	2585.1	2572.7	2543.9	2527.5	2519.2	2494.5
25°	2560.4	2527.5	2506.9	2482.2	2445.1	2436.9	2424.5	2395.7	2387.5	2375.1	2354.6
27.5°	2428.7	2387.5	2358.7	2334.0	2301.1	2296.9	2272.2	2251.7	2235.2	2227.0	2210.5
30°	2276.4	2231.1	2210.5	2177.6	2152.9	2144.6	2124.0	2095.2	2082.9	2074.7	2062.3
32.5°	2107.6	2070.5	2050.0	2021.1	1988.2	1992.3	1967.6	1942.9	1934.7	1926.5	1914.1
35°	1942.9	1905.9	1881.2	1856.5	1835.9	1827.7	1811.2	1790.6	1778.3	1774.2	1765.9
37.5°	1761.8	1733.0	1712.4	1687.7	1671.2	1663.0	1654.8	1634.2	1626.0	1626.0	1609.5
40°	1584.8	1560.1	1543.6	1531.3	1510.7	1506.6	1498.4	1486.0	1481.9	1477.8	1465.4
42.5°	1424.3	1391.3	1379.0	1370.8	1358.4	1350.2	1346.1	1337.8	1333.7	1329.6	1317.2
45°	1272.0	1243.1	1230.8	1222.6	1210.2	1206.1	1202.0	1189.6	1181.4	1173.2	1169.0
47.5°	1123.8	1103.2	1099.1	1078.5	1070.3	1062.0	1053.8	1045.6	1041.4	1037.3	1020.9
50°	996.2	983.8	963.2	950.9	942.6	938.5	922.1	909.7	905.6	901.5	889.1
52.5°	880.9	864.4	852.1	831.5	827.4	819.2	810.9	794.5	786.2	782.1	769.8
55°	778.0	765.6	749.2	732.7	720.4	716.2	703.9	687.4	679.2	671.0	662.7
57.5°	691.6	671.0	654.5	638.0	629.8	617.5	605.1	596.9	584.5	572.2	559.8
60°	609.2	592.8	572.2	555.7	547.5	539.2	522.8	510.4	498.1	485.7	473.4
62.5°	531.0	514.5	494.0	477.5	469.3	461.0	444.6	432.2	419.9	407.5	391.1
65°	461.0	444.6	428.1	411.6	403.4	395.2	378.7	362.2	349.9	337.5	321.1
67.5°	403.4	382.8	366.4	349.9	341.7	333.4	317.0	304.6	288.1	275.8	259.3
70°	341.7	325.2	312.8	296.4	288.1	279.9	263.4	247.0	234.6	222.3	205.8
72.5°	288.1	267.6	255.2	238.7	230.5	226.4	209.9	197.6	185.2	168.8	156.4
75°	230.5	214.1	197.6	185.2	177.0	172.9	156.4	144.1	131.7	119.4	107.0
77.5°	177.0	164.7	148.2	135.8	127.6	123.5	107.0	94.7	82.3	74.1	61.7
80°	131.7	115.3	107.0	94.7	90.6	82.3	74.1	61.7	53.5	41.2	32.9
82.5°	90.6	78.2	70.0	61.7	57.6	53.5	45.3	37.0	28.8	24.7	20.6
85°	49.4	41.2	37.0	32.9	28.8	28.8	24.7	20.6	16.5	12.3	8.2
87.5°	16.5	12.3	12.3	12.3	12.3	8.2	8.2	8.2	4.1	4.1	4.1
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°	3169.6	3169.6	3169.6	3169.6	3169.6	3169.6	3169.6	3169.6	3169.6	3169.6	3169.6
2.5°	3165.5	3165.5	3165.5	3161.4	3161.4	3161.4	3157.3	3173.7	3157.3	3153.1	3165.5
5°	3161.4	3153.1	3153.1	3153.1	3153.1	3149.0	3144.9	3153.1	3140.8	3136.7	3136.7
7.5°	3136.7	3132.6	3132.6	3128.4	3124.3	3120.2	3116.1	3120.2	3107.9	3103.7	3103.7
10°	3140.8	3132.6	3132.6	3120.2	3112.0	3099.6	3087.3	3091.4	3074.9	3062.6	3062.6
12.5°	3091.4	3070.8	3058.5	3046.1	3037.9	3033.8	3017.3	3025.5	3009.1	3005.0	3005.0
15°	2980.3	2955.6	2935.0	2926.7	2926.7	2918.5	2906.2	2922.6	2914.4	2918.5	2939.1
17.5°	2807.4	2795.0	2782.7	2778.6	2782.7	2790.9	2799.1	2823.8	2823.8	2836.2	2856.8
20°	2655.1	2646.8	2655.1	2655.1	2659.2	2675.6	2692.1	2712.7	2720.9	2733.3	2762.1
22.5°	2506.9	2506.9	2515.1	2527.5	2523.3	2552.2	2556.3	2593.3	2593.3	2618.0	2642.7
25°	2362.8	2362.8	2371.0	2375.1	2383.4	2399.8	2416.3	2445.1	2453.4	2478.1	2498.6
27.5°	2222.8	2218.7	2218.7	2222.8	2231.1	2251.7	2259.9	2292.8	2305.2	2321.6	2342.2
30°	2066.4	2062.3	2070.5	2078.8	2074.7	2095.2	2107.6	2132.3	2140.5	2157.0	2173.4
32.5°	1918.2	1918.2	1918.2	1926.5	1926.5	1942.9	1942.9	1971.7	1971.7	1984.1	2000.6
35°	1765.9	1765.9	1770.0	1774.2	1778.3	1782.4	1786.5	1803.0	1807.1	1811.2	1819.4
37.5°	1621.9	1617.7	1621.9	1621.9	1613.6	1630.1	1630.1	1646.5	1634.2	1646.5	1650.7
40°	1473.7	1473.7	1469.5	1469.5	1469.5	1477.8	1469.5	1481.9	1473.7	1481.9	1477.8
42.5°	1321.4	1321.4	1313.1	1321.4	1317.2	1317.2	1317.2	1325.5	1313.1	1321.4	1325.5
45°	1169.0	1164.9	1164.9	1160.8	1160.8	1160.8	1164.9	1164.9	1160.8	1169.0	1169.0
47.5°	1020.9	1016.7	1016.7	1016.7	1016.7	1020.9	1008.5	1016.7	1008.5	1008.5	1008.5
50°	893.3	889.1	885.0	880.9	876.8	876.8	872.7	872.7	864.4	860.3	856.2
52.5°	769.8	765.6	757.4	757.4	753.3	749.2	736.8	736.8	724.5	720.4	720.4
55°	658.6	646.3	642.2	633.9	633.9	625.7	617.5	609.2	596.9	588.6	588.6
57.5°	555.7	543.4	535.1	531.0	526.9	518.7	502.2	498.1	481.6	477.5	473.4
60°	465.2	452.8	440.5	432.2	428.1	415.8	399.3	391.1	382.8	370.5	358.1
62.5°	378.7	366.4	349.9	345.8	337.5	325.2	312.8	300.5	292.3	279.9	271.7
65°	304.6	292.3	279.9	271.7	263.4	251.1	238.7	226.4	218.2	214.1	209.9
67.5°	247.0	230.5	218.2	214.1	205.8	197.6	185.2	181.1	172.9	172.9	172.9
70°	193.5	181.1	168.8	164.7	160.5	152.3	144.1	144.1	144.1	144.1	144.1
72.5°	144.1	135.8	123.5	119.4	115.3	111.1	102.9	107.0	102.9	102.9	102.9
75°	90.6	82.3	74.1	70.0	65.9	61.7	57.6	53.5	49.4	45.3	45.3
77.5°	49.4	41.2	37.0	32.9	32.9	28.8	24.7	24.7	20.6	20.6	20.6
80°	28.8	24.7	20.6	16.5	16.5	12.3	12.3	12.3	12.3	8.2	8.2
82.5°	16.5	12.3	8.2	8.2	8.2	8.2	4.1	4.1	4.1	4.1	4.1
85°	8.2	8.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	0.0
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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: P252417

CATALOG NUMBER: LD6B60D010TE EU6B60708040 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3169.6	3169.6	3169.6	3169.6	3169.6	3169.6	3169.6	3169.6
2.5°	3144.9	3157.3	3144.9	3157.3	3157.3	3157.3	3157.3	3144.9
5°	3124.3	3132.6	3120.2	3128.4	3132.6	3128.4	3128.4	3116.1
7.5°	3087.3	3095.5	3083.2	3095.5	3099.6	3095.5	3091.4	3083.2
10°	3050.2	3054.3	3042.0	3050.2	3058.5	3058.5	3054.3	3042.0
12.5°	2992.6	3005.0	2992.6	3000.8	3009.1	3013.2	3013.2	3000.8
15°	2926.7	2947.3	2939.1	2951.4	2963.8	2967.9	2967.9	2963.8
17.5°	2860.9	2881.5	2869.1	2889.7	2902.0	2910.3	2914.4	2906.2
20°	2766.2	2790.9	2782.7	2799.1	2815.6	2827.9	2827.9	2815.6
22.5°	2642.7	2675.6	2671.5	2683.9	2704.5	2708.6	2716.8	2708.6
25°	2506.9	2531.6	2527.5	2539.8	2564.5	2564.5	2568.6	2568.6
27.5°	2350.4	2375.1	2371.0	2379.3	2395.7	2399.8	2404.0	2395.7
30°	2181.7	2194.0	2194.0	2206.4	2218.7	2222.8	2222.8	2210.5
32.5°	1996.4	2012.9	2021.1	2017.0	2029.4	2037.6	2033.5	2033.5
35°	1827.7	1831.8	1835.9	1840.0	1844.1	1852.4	1844.1	1840.0
37.5°	1646.5	1658.9	1650.7	1658.9	1667.1	1663.0	1658.9	1658.9
40°	1481.9	1486.0	1477.8	1486.0	1490.1	1490.1	1490.1	1481.9
42.5°	1317.2	1325.5	1317.2	1325.5	1325.5	1325.5	1325.5	1321.4
45°	1152.6	1160.8	1160.8	1164.9	1164.9	1160.8	1160.8	1160.8
47.5°	1000.3	1008.5	1000.3	1008.5	1012.6	1004.4	1004.4	1004.4
50°	856.2	852.1	852.1	856.2	856.2	856.2	856.2	852.1
52.5°	708.0	712.1	712.1	712.1	716.2	712.1	716.2	716.2
55°	580.4	580.4	580.4	584.5	580.4	580.4	584.5	588.6
57.5°	465.2	461.0	456.9	456.9	461.0	456.9	456.9	456.9
60°	358.1	354.0	349.9	349.9	349.9	349.9	349.9	345.8
62.5°	267.6	267.6	267.6	271.7	271.7	271.7	271.7	275.8
65°	214.1	214.1	214.1	214.1	214.1	214.1	214.1	218.2
67.5°	172.9	172.9	172.9	177.0	177.0	177.0	177.0	177.0
70°	144.1	144.1	148.2	144.1	148.2	148.2	148.2	148.2
72.5°	98.8	98.8	98.8	98.8	98.8	94.7	98.8	94.7
75°	41.2	41.2	41.2	41.2	41.2	41.2	41.2	37.0
77.5°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
80°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	4.1	4.1	4.1	4.1	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)