

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: P252416

Luminaire Tested: **LD6B60D010TE EU6B60708035 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252416
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 EU6B60708035 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5539.0 lumens
Efficiency: N/A
Efficacy: 88.7 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

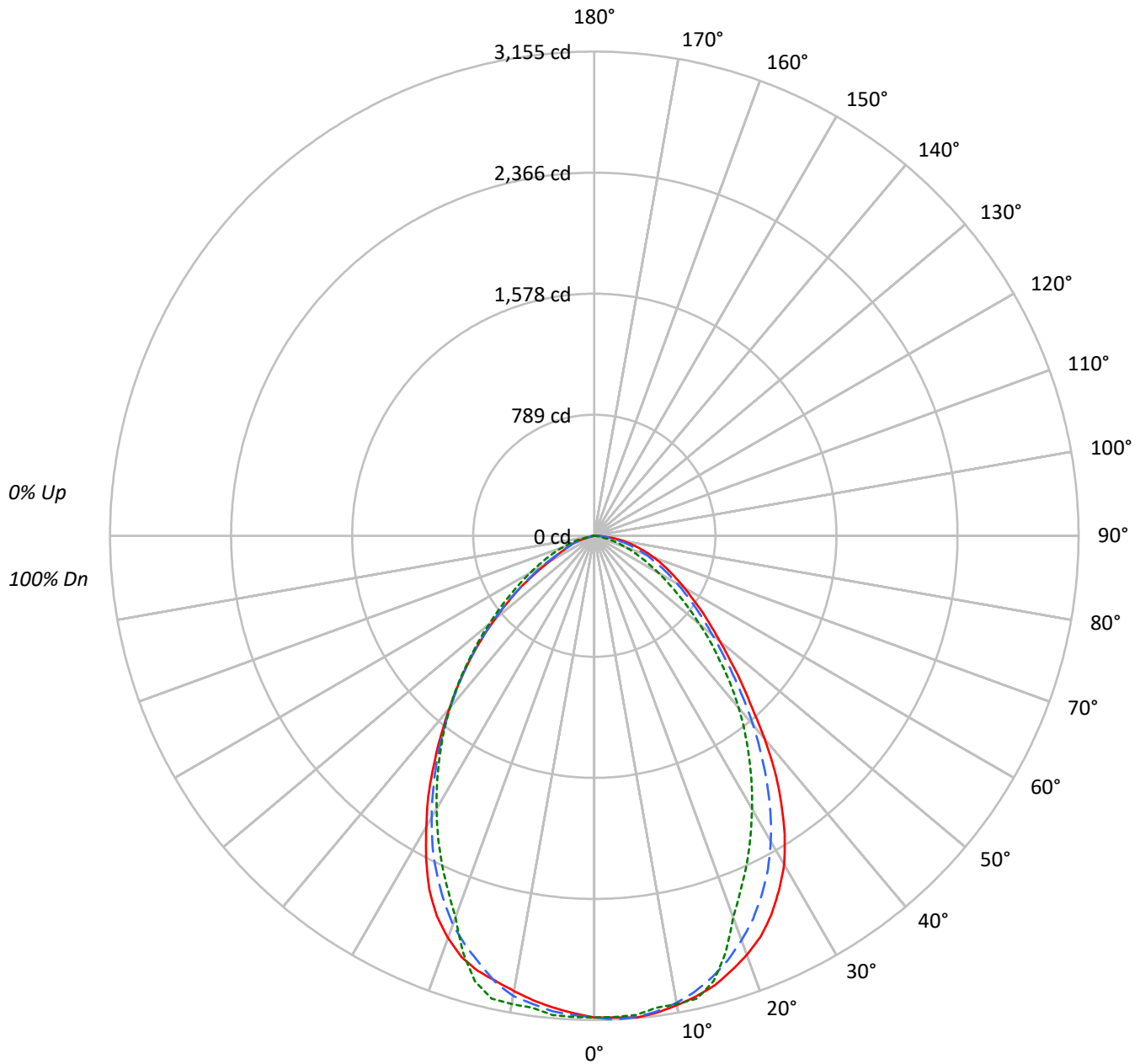
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	204751	204751	204751
5°	206339	205271	202069
10°	205750	205214	199543
15°	204821	202890	198209
20°	201764	183657	193557
25°	196289	169294	183087
30°	186382	154757	164890
35°	169124	139911	145104
40°	146834	124614	124963
45°	125230	107174	106048
50°	108388	90596	85633
55°	96898	75571	66301
60°	88284	62761	44677
65°	82419	51591	33344
70°	78532	41984	27983
75°	73983	29795	9251
80°	70445	15329	3081
85°	57938	9132	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.4	5.4
10°-20°	828.9	15.0
20°-30°	1144.2	20.7
30°-40°	1164.3	21.0
40°-50°	935.7	16.9
50°-60°	622.2	11.2
60°-70°	354.5	6.4
70°-80°	159.3	2.9
80°-90°	33.6	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°	2269.4	41.0
0°-40°	3433.8	62.0
0°-60°	4991.7	90.1
0°-90°	5539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5539.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3138	3138	3138	3138	3138	
5°	3151	3147	3134	3110	3086	299
15°	3032	2975	3004	2886	2935	853
25°	2727	2580	2352	2429	2543	1250
35°	2124	1960	1757	1789	1822	1320
45°	1357	1276	1162	1149	1149	1053
55°	852	795	664	591	583	765
65°	534	477	334	216	216	532
75°	294	245	118	49	37	313
85°	77	53	12	4	0	92
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°	3138.4	3138.4	3138.4	3138.4	3138.4	3138.4	3138.4	3138.4	3138.4	3138.4	3138.4
2.5°	3142.5	3158.8	3154.7	3150.7	3154.7	3150.7	3142.5	3142.5	3134.4	3134.4	3154.7
5°	3150.7	3158.8	3154.7	3150.7	3150.7	3154.7	3138.4	3138.4	3130.3	3126.2	3146.6
7.5°	3134.4	3146.6	3138.4	3138.4	3134.4	3138.4	3122.1	3122.1	3109.9	3105.8	3126.2
10°	3105.8	3122.1	3114.0	3114.0	3114.0	3105.8	3097.7	3093.6	3081.4	3077.3	3089.5
12.5°	3073.2	3085.5	3081.4	3073.2	3073.2	3073.2	3056.9	3052.8	3036.5	3028.4	3040.6
15°	3032.5	3040.6	3036.5	3032.5	3024.3	3024.3	3008.0	2999.9	2983.6	2967.3	2975.4
17.5°	2971.3	2983.6	2975.4	2971.3	2959.1	2959.1	2942.8	2934.6	2910.2	2893.9	2898.0
20°	2906.1	2910.2	2906.1	2898.0	2885.7	2881.7	2865.4	2849.1	2828.7	2808.3	2804.2
22.5°	2828.7	2832.8	2820.5	2812.4	2800.1	2796.1	2775.7	2763.5	2730.9	2706.4	2702.3
25°	2726.8	2730.9	2730.9	2710.5	2702.3	2694.2	2673.8	2653.4	2624.9	2592.3	2580.0
27.5°	2604.5	2616.7	2608.6	2588.2	2571.9	2567.8	2547.4	2531.1	2494.5	2465.9	2449.6
30°	2474.1	2470.0	2465.9	2453.7	2429.2	2425.2	2404.8	2384.4	2355.9	2319.2	2298.8
32.5°	2307.0	2307.0	2302.9	2290.7	2266.2	2258.0	2241.7	2217.3	2184.7	2156.2	2135.8
35°	2123.5	2127.6	2123.5	2099.1	2082.8	2074.6	2066.5	2038.0	2009.4	1976.8	1960.5
37.5°	1932.0	1919.7	1923.8	1903.4	1883.1	1891.2	1866.8	1854.5	1821.9	1797.5	1781.2
40°	1724.1	1732.3	1716.0	1707.8	1695.6	1683.3	1683.3	1663.0	1646.7	1618.1	1610.0
42.5°	1520.3	1532.5	1528.5	1520.3	1504.0	1508.1	1487.7	1479.6	1459.2	1446.9	1434.7
45°	1357.3	1357.3	1357.3	1349.1	1345.0	1336.9	1324.7	1312.4	1300.2	1283.9	1275.8
47.5°	1198.3	1198.3	1202.4	1194.2	1186.1	1182.0	1173.9	1173.9	1153.5	1137.2	1129.0
50°	1067.9	1067.9	1067.9	1059.7	1051.6	1051.6	1043.4	1035.3	1023.1	1010.8	1002.7
52.5°	949.7	949.7	949.7	941.5	937.5	933.4	929.3	925.2	908.9	900.8	892.6
55°	851.9	847.8	847.8	843.7	835.6	835.6	831.5	823.3	811.1	798.9	794.8
57.5°	754.0	758.1	754.0	754.0	745.9	745.9	737.7	733.7	721.4	713.3	705.1
60°	676.6	676.6	676.6	672.5	664.4	668.4	660.3	656.2	644.0	631.8	623.6
62.5°	599.2	603.2	603.2	599.2	591.0	591.0	586.9	582.9	570.6	558.4	546.2
65°	533.9	533.9	533.9	529.9	525.8	525.8	521.7	517.6	505.4	489.1	476.9
67.5°	472.8	468.7	468.7	468.7	464.7	460.6	456.5	452.4	440.2	428.0	411.7
70°	411.7	411.7	411.7	407.6	399.4	403.5	399.4	395.4	383.1	370.9	358.7
72.5°	354.6	354.6	350.5	346.5	346.5	342.4	342.4	338.3	326.1	309.8	297.5
75°	293.5	293.5	293.5	293.5	285.3	289.4	281.2	277.2	269.0	256.8	244.6
77.5°	240.5	240.5	240.5	236.4	232.3	232.3	228.3	224.2	211.9	203.8	187.5
80°	187.5	187.5	187.5	187.5	183.4	179.3	175.3	171.2	163.0	150.8	138.6
82.5°	138.6	138.6	134.5	134.5	134.5	130.4	126.4	122.3	114.1	106.0	97.8
85°	77.4	81.5	81.5	73.4	77.4	73.4	73.4	65.2	65.2	57.1	53.0
87.5°	28.5	24.5	24.5	24.5	24.5	24.5	24.5	20.4	20.4	20.4	16.3
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°	3138.4	3138.4	3138.4	3138.4	3138.4	3138.4	3138.4	3138.4	3138.4	3138.4	3138.4
2.5°	3138.4	3134.4	3150.7	3150.7	3126.2	3138.4	3142.5	3134.4	3134.4	3138.4	3126.2
5°	3130.3	3122.1	3138.4	3142.5	3118.1	3130.3	3134.4	3126.2	3130.3	3134.4	3118.1
7.5°	3101.8	3101.8	3114.0	3118.1	3093.6	3105.8	3105.8	3097.7	3101.8	3101.8	3089.5
10°	3073.2	3061.0	3073.2	3073.2	3052.8	3056.9	3065.1	3061.0	3077.3	3097.7	3097.7
12.5°	3020.2	3008.0	3028.4	3028.4	3016.2	3032.5	3052.8	3065.1	3081.4	3089.5	3065.1
15°	2955.0	2959.1	2995.8	3024.3	3012.1	3036.5	3056.9	3048.8	3028.4	3003.9	2967.3
17.5°	2869.4	2857.2	2889.8	2906.1	2889.8	2898.0	2914.3	2898.0	2865.4	2845.0	2796.1
20°	2771.6	2739.0	2739.0	2730.9	2702.3	2702.3	2698.2	2669.7	2657.5	2645.3	2624.9
22.5°	2661.6	2624.9	2612.7	2588.2	2563.7	2559.7	2547.4	2518.9	2502.6	2494.5	2470.0
25°	2535.2	2502.6	2482.2	2457.8	2421.1	2412.9	2400.7	2372.2	2364.0	2351.8	2331.4
27.5°	2404.8	2364.0	2335.5	2311.0	2278.4	2274.4	2249.9	2229.5	2213.2	2205.1	2188.8
30°	2254.0	2209.1	2188.8	2156.2	2131.7	2123.5	2103.2	2074.6	2062.4	2054.3	2042.0
32.5°	2086.9	2050.2	2029.8	2001.3	1968.7	1972.7	1948.3	1923.8	1915.7	1907.5	1895.3
35°	1923.8	1887.1	1862.7	1838.2	1817.9	1809.7	1793.4	1773.0	1760.8	1756.7	1748.6
37.5°	1744.5	1716.0	1695.6	1671.1	1654.8	1646.7	1638.5	1618.1	1610.0	1610.0	1593.7
40°	1569.2	1544.8	1528.5	1516.2	1495.9	1491.8	1483.6	1471.4	1467.3	1463.2	1451.0
42.5°	1410.3	1377.7	1365.4	1357.3	1345.0	1336.9	1332.8	1324.7	1320.6	1316.5	1304.3
45°	1259.5	1230.9	1218.7	1210.5	1198.3	1194.2	1190.2	1177.9	1169.8	1161.6	1157.6
47.5°	1112.7	1092.3	1088.3	1067.9	1059.7	1051.6	1043.4	1035.3	1031.2	1027.1	1010.8
50°	986.4	974.1	953.8	941.5	933.4	929.3	913.0	900.8	896.7	892.6	880.4
52.5°	872.2	855.9	843.7	823.3	819.3	811.1	803.0	786.6	778.5	774.4	762.2
55°	770.3	758.1	741.8	725.5	713.3	709.2	697.0	680.7	672.5	664.4	656.2
57.5°	684.8	664.4	648.1	631.8	623.6	611.4	599.2	591.0	578.8	566.6	554.3
60°	603.2	586.9	566.6	550.2	542.1	533.9	517.6	505.4	493.2	481.0	468.7
62.5°	525.8	509.5	489.1	472.8	464.7	456.5	440.2	428.0	415.7	403.5	387.2
65°	456.5	440.2	423.9	407.6	399.4	391.3	375.0	358.7	346.5	334.2	317.9
67.5°	399.4	379.1	362.8	346.5	338.3	330.1	313.8	301.6	285.3	273.1	256.8
70°	338.3	322.0	309.8	293.5	285.3	277.2	260.9	244.6	232.3	220.1	203.8
72.5°	285.3	264.9	252.7	236.4	228.3	224.2	207.9	195.6	183.4	167.1	154.9
75°	228.3	211.9	195.6	183.4	175.3	171.2	154.9	142.7	130.4	118.2	106.0
77.5°	175.3	163.0	146.7	134.5	126.4	122.3	106.0	93.7	81.5	73.4	61.1
80°	130.4	114.1	106.0	93.7	89.7	81.5	73.4	61.1	53.0	40.8	32.6
82.5°	89.7	77.4	69.3	61.1	57.1	53.0	44.8	36.7	28.5	24.5	20.4
85°	48.9	40.8	36.7	32.6	28.5	28.5	24.5	20.4	16.3	12.2	8.2
87.5°	16.3	12.2	12.2	12.2	12.2	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°	3138.4	3138.4	3138.4	3138.4	3138.4	3138.4	3138.4	3138.4	3138.4	3138.4	3138.4
2.5°	3134.4	3134.4	3134.4	3130.3	3130.3	3130.3	3126.2	3142.5	3126.2	3122.1	3134.4
5°	3130.3	3122.1	3122.1	3122.1	3122.1	3118.1	3114.0	3122.1	3109.9	3105.8	3105.8
7.5°	3105.8	3101.8	3101.8	3097.7	3093.6	3089.5	3085.5	3089.5	3077.3	3073.2	3073.2
10°	3109.9	3101.8	3101.8	3089.5	3081.4	3069.2	3056.9	3061.0	3044.7	3032.5	3032.5
12.5°	3061.0	3040.6	3028.4	3016.2	3008.0	3003.9	2987.6	2995.8	2979.5	2975.4	2975.4
15°	2951.0	2926.5	2906.1	2898.0	2898.0	2889.8	2877.6	2893.9	2885.7	2889.8	2910.2
17.5°	2779.8	2767.5	2755.3	2751.2	2755.3	2763.5	2771.6	2796.1	2796.1	2808.3	2828.7
20°	2629.0	2620.8	2629.0	2629.0	2633.0	2649.3	2665.6	2686.0	2694.2	2706.4	2734.9
22.5°	2482.2	2482.2	2490.4	2502.6	2498.5	2527.1	2531.1	2567.8	2567.8	2592.3	2616.7
25°	2339.6	2339.6	2347.7	2351.8	2359.9	2376.3	2392.6	2421.1	2429.2	2453.7	2474.1
27.5°	2201.0	2196.9	2196.9	2201.0	2209.1	2229.5	2237.7	2270.3	2282.5	2298.8	2319.2
30°	2046.1	2042.0	2050.2	2058.3	2054.3	2074.6	2086.9	2111.3	2119.5	2135.8	2152.1
32.5°	1899.4	1899.4	1899.4	1907.5	1907.5	1923.8	1923.8	1952.4	1952.4	1964.6	1980.9
35°	1748.6	1748.6	1752.6	1756.7	1760.8	1764.9	1768.9	1785.2	1789.3	1793.4	1801.5
37.5°	1605.9	1601.8	1605.9	1605.9	1597.8	1614.1	1614.1	1630.4	1618.1	1630.4	1634.4
40°	1459.2	1459.2	1455.1	1455.1	1455.1	1463.2	1455.1	1467.3	1459.2	1467.3	1463.2
42.5°	1308.4	1308.4	1300.2	1308.4	1304.3	1304.3	1304.3	1312.4	1300.2	1308.4	1312.4
45°	1157.6	1153.5	1153.5	1149.4	1149.4	1149.4	1153.5	1153.5	1149.4	1157.6	1157.6
47.5°	1010.8	1006.7	1006.7	1006.7	1006.7	1010.8	998.6	1006.7	998.6	998.6	998.6
50°	884.5	880.4	876.3	872.2	868.2	868.2	864.1	864.1	855.9	851.9	847.8
52.5°	762.2	758.1	750.0	750.0	745.9	741.8	729.6	729.6	717.4	713.3	713.3
55°	652.1	639.9	635.8	627.7	627.7	619.5	611.4	603.2	591.0	582.9	582.9
57.5°	550.2	538.0	529.9	525.8	521.7	513.6	497.3	493.2	476.9	472.8	468.7
60°	460.6	448.3	436.1	428.0	423.9	411.7	395.4	387.2	379.1	366.8	354.6
62.5°	375.0	362.8	346.5	342.4	334.2	322.0	309.8	297.5	289.4	277.2	269.0
65°	301.6	289.4	277.2	269.0	260.9	248.6	236.4	224.2	216.0	211.9	207.9
67.5°	244.6	228.3	216.0	211.9	203.8	195.6	183.4	179.3	171.2	171.2	171.2
70°	191.6	179.3	167.1	163.0	159.0	150.8	142.7	142.7	142.7	142.7	142.7
72.5°	142.7	134.5	122.3	118.2	114.1	110.0	101.9	106.0	101.9	101.9	101.9
75°	89.7	81.5	73.4	69.3	65.2	61.1	57.1	53.0	48.9	44.8	44.8
77.5°	48.9	40.8	36.7	32.6	32.6	28.5	24.5	24.5	20.4	20.4	20.4
80°	28.5	24.5	20.4	16.3	16.3	12.2	12.2	12.2	12.2	8.2	8.2
82.5°	16.3	12.2	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: P252416

CATALOG NUMBER: LD6B60D010TE EU6B60708035 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3138.4	3138.4	3138.4	3138.4	3138.4	3138.4	3138.4	3138.4
2.5°	3114.0	3126.2	3114.0	3126.2	3126.2	3126.2	3126.2	3114.0
5°	3093.6	3101.8	3089.5	3097.7	3101.8	3097.7	3097.7	3085.5
7.5°	3056.9	3065.1	3052.8	3065.1	3069.2	3065.1	3061.0	3052.8
10°	3020.2	3024.3	3012.1	3020.2	3028.4	3028.4	3024.3	3012.1
12.5°	2963.2	2975.4	2963.2	2971.3	2979.5	2983.6	2983.6	2971.3
15°	2898.0	2918.3	2910.2	2922.4	2934.6	2938.7	2938.7	2934.6
17.5°	2832.8	2853.1	2840.9	2861.3	2873.5	2881.7	2885.7	2877.6
20°	2739.0	2763.5	2755.3	2771.6	2787.9	2800.1	2800.1	2787.9
22.5°	2616.7	2649.3	2645.3	2657.5	2677.9	2681.9	2690.1	2681.9
25°	2482.2	2506.7	2502.6	2514.8	2539.3	2539.3	2543.4	2543.4
27.5°	2327.3	2351.8	2347.7	2355.9	2372.2	2376.3	2380.3	2372.2
30°	2160.2	2172.5	2172.5	2184.7	2196.9	2201.0	2201.0	2188.8
32.5°	1976.8	1993.1	2001.3	1997.2	2009.4	2017.6	2013.5	2013.5
35°	1809.7	1813.8	1817.9	1821.9	1826.0	1834.2	1826.0	1821.9
37.5°	1630.4	1642.6	1634.4	1642.6	1650.7	1646.7	1642.6	1642.6
40°	1467.3	1471.4	1463.2	1471.4	1475.5	1475.5	1475.5	1467.3
42.5°	1304.3	1312.4	1304.3	1312.4	1312.4	1312.4	1312.4	1308.4
45°	1141.3	1149.4	1149.4	1153.5	1153.5	1149.4	1149.4	1149.4
47.5°	990.4	998.6	990.4	998.6	1002.7	994.5	994.5	994.5
50°	847.8	843.7	843.7	847.8	847.8	847.8	847.8	843.7
52.5°	701.1	705.1	705.1	705.1	709.2	705.1	709.2	709.2
55°	574.7	574.7	574.7	578.8	574.7	574.7	578.8	582.9
57.5°	460.6	456.5	452.4	452.4	456.5	452.4	452.4	452.4
60°	354.6	350.5	346.5	346.5	346.5	346.5	346.5	342.4
62.5°	264.9	264.9	264.9	269.0	269.0	269.0	269.0	273.1
65°	211.9	211.9	211.9	211.9	211.9	211.9	211.9	216.0
67.5°	171.2	171.2	171.2	175.3	175.3	175.3	175.3	175.3
70°	142.7	142.7	146.7	142.7	146.7	146.7	146.7	146.7
72.5°	97.8	97.8	97.8	97.8	97.8	93.7	97.8	93.7
75°	40.8	40.8	40.8	40.8	40.8	40.8	40.8	36.7
77.5°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
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)