

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: P252312

Luminaire Tested: **LD6B60D010TE EU6B60708035 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B60D010TE EU6B60708035 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5661.0 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

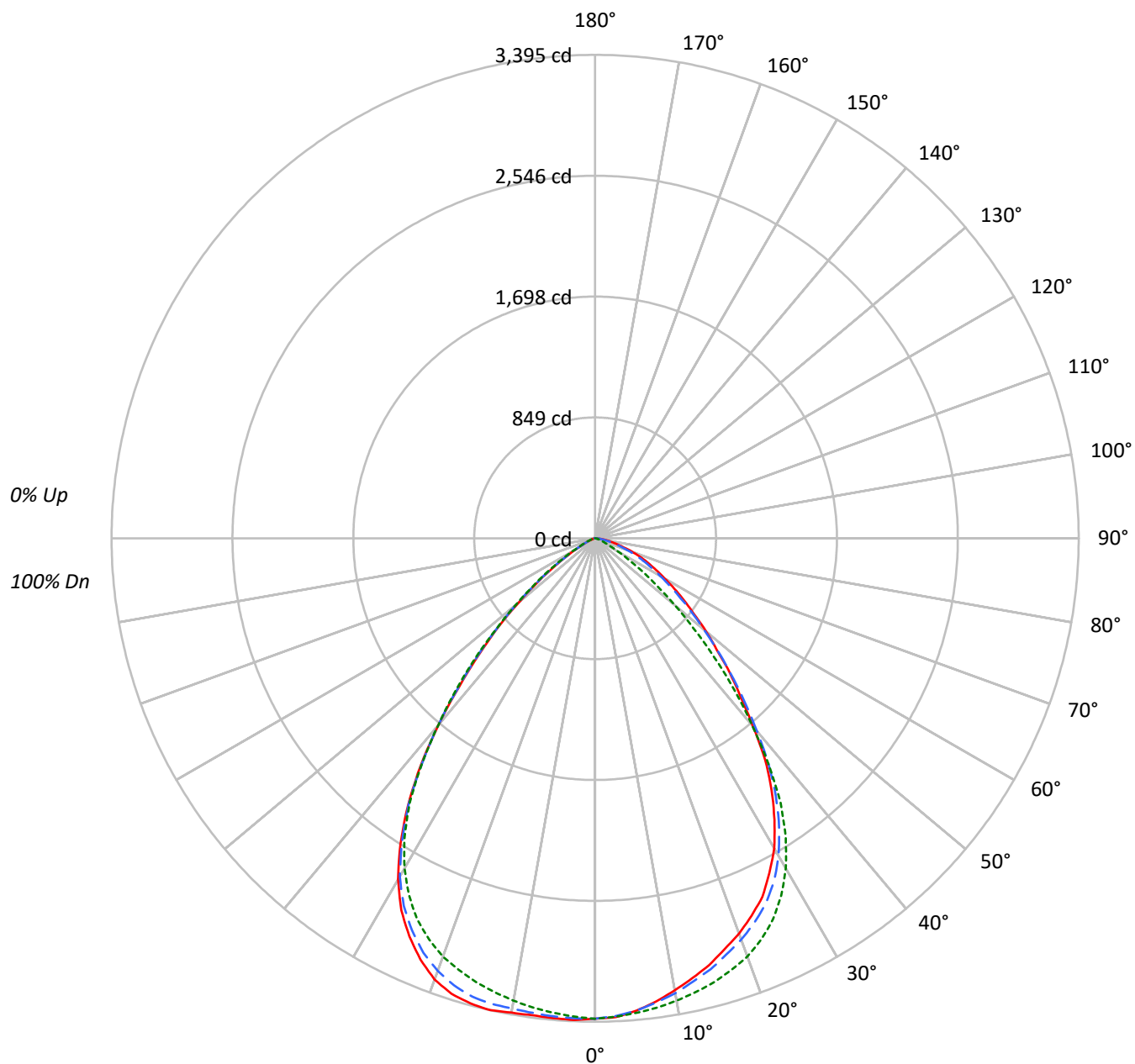
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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
1	112	108	105	102	109	106	103	101		102	100	98		98	96	95		95	93	92
2	104	98	93	89	102	96	92	88		93	89	86		90	87	84		87	85	82
3	97	89	83	78	95	88	82	77		85	80	76		82	78	75		80	77	74
4	91	81	74	69	89	80	74	69		78	72	68		76	71	67		74	69	66
5	85	74	67	62	83	73	66	61		71	65	61		70	64	60		68	63	60
6	79	68	61	55	78	67	60	55		66	59	55		64	59	54		63	58	54
7	74	63	55	50	73	62	55	50		61	54	50		59	54	49		58	53	49
8	70	58	51	46	68	57	50	46		56	50	45		55	49	45		54	49	45
9	65	54	47	42	64	53	46	42		52	46	42		51	46	41		50	45	41
10	62	50	43	39	61	50	43	38		49	43	38		48	42	38		47	42	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	220141	220141	220141
5°	218048	219116	221519
10°	213547	218410	224081
15°	209468	217999	228461
20°	205131	217010	228896
25°	200068	212687	222074
30°	189418	201698	208455
35°	172023	180784	182409
40°	146808	146119	145420
45°	123330	109416	106030
50°	102988	74042	70317
55°	86684	45429	41255
60°	73383	23930	20733
65°	63540	12581	10065
70°	52857	7783	5436
75°	39046	5142	3075
80°	30620	3081	1540
85°	24403	3069	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.0	5.6
10°-20°	910.5	16.1
20°-30°	1344.6	23.8
30°-40°	1385.7	24.5
40°-50°	957.1	16.9
50°-60°	471.7	8.3
60°-70°	191.1	3.4
70°-80°	68.1	1.2
80°-90°	14.1	0.2
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°	2573.1	45.5
0°-40°	3958.8	69.9
0°-60°	5387.7	95.2
0°-90°	5661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5661.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3374	3374	3374	3374	3374	
5°	3330	3330	3346	3370	3382	314
15°	3101	3134	3228	3334	3382	873
25°	2779	2832	2955	3040	3085	1271
35°	2160	2213	2270	2282	2290	1338
45°	1337	1345	1186	1170	1149	1033
55°	762	734	399	375	363	689
65°	412	371	82	65	65	409
75°	155	130	20	12	12	174
85°	33	24	4	0	0	40
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°	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3
2.5°	3366.2	3353.9	3362.1	3345.8	3366.2	3345.8	3349.9	3353.9	3349.9	3353.9	3358.0
5°	3329.5	3317.3	3329.5	3309.1	3329.5	3317.3	3317.3	3321.3	3321.3	3325.4	3329.5
7.5°	3280.6	3268.3	3280.6	3260.2	3284.6	3272.4	3272.4	3280.6	3276.5	3280.6	3288.7
10°	3223.5	3207.2	3219.4	3207.2	3231.7	3215.4	3223.5	3223.5	3223.5	3235.7	3243.9
12.5°	3162.4	3146.1	3162.4	3142.0	3166.5	3154.2	3158.3	3170.5	3174.6	3182.8	3186.8
15°	3101.3	3080.9	3089.0	3076.8	3101.3	3089.0	3093.1	3109.4	3109.4	3121.6	3133.9
17.5°	3023.8	3007.5	3023.8	3007.5	3027.9	3019.8	3027.9	3040.1	3040.1	3052.4	3064.6
20°	2954.6	2938.3	2950.5	2938.3	2962.7	2950.5	2954.6	2970.9	2974.9	2987.2	2999.4
22.5°	2869.0	2856.7	2864.9	2852.7	2877.1	2869.0	2873.0	2889.3	2893.4	2901.6	2922.0
25°	2779.3	2754.9	2767.1	2758.9	2783.4	2771.2	2779.3	2795.6	2803.8	2816.0	2832.3
27.5°	2648.9	2636.7	2644.8	2644.8	2665.2	2653.0	2657.1	2673.4	2685.6	2697.8	2718.2
30°	2514.4	2494.1	2502.2	2506.3	2522.6	2514.4	2522.6	2538.9	2543.0	2559.3	2575.6
32.5°	2343.3	2335.1	2351.4	2343.3	2351.4	2351.4	2355.5	2367.7	2375.9	2384.0	2404.4
35°	2159.9	2143.6	2159.9	2151.7	2172.1	2159.9	2172.1	2184.3	2184.3	2200.6	2212.9
37.5°	1960.2	1939.8	1948.0	1948.0	1956.1	1952.0	1952.0	1972.4	1976.5	1988.7	2000.9
40°	1723.8	1715.7	1732.0	1727.9	1732.0	1732.0	1736.1	1748.3	1756.4	1760.5	1764.6
42.5°	1511.9	1516.0	1520.1	1520.1	1520.1	1520.1	1520.1	1536.4	1532.3	1544.5	1548.6
45°	1336.7	1320.4	1328.5	1324.5	1336.7	1324.5	1336.7	1348.9	1340.8	1353.0	1344.8
47.5°	1157.4	1157.4	1157.4	1153.3	1161.4	1157.4	1165.5	1169.6	1169.6	1169.6	1165.5
50°	1014.7	1002.5	1006.6	1006.6	1010.7	1006.6	1014.7	1018.8	1018.8	1010.7	994.4
52.5°	876.2	872.1	872.1	880.3	880.3	876.2	876.2	876.2	876.2	864.0	855.8
55°	762.1	753.9	758.0	758.0	758.0	758.0	762.1	758.0	758.0	745.8	733.5
57.5°	660.2	652.0	652.0	652.0	656.1	652.0	652.0	652.0	648.0	635.7	619.4
60°	562.4	558.3	562.4	562.4	566.5	562.4	562.4	562.4	554.2	542.0	525.7
62.5°	480.9	480.9	480.9	485.0	485.0	480.9	480.9	476.8	472.7	456.4	440.1
65°	411.6	407.5	411.6	411.6	415.7	415.7	411.6	407.5	403.4	387.1	370.8
67.5°	342.3	338.2	342.3	342.3	346.4	342.3	342.3	342.3	330.1	321.9	305.6
70°	277.1	273.0	273.0	273.0	277.1	269.0	273.0	273.0	264.9	252.7	236.4
72.5°	211.9	211.9	211.9	211.9	211.9	211.9	207.8	207.8	199.7	187.5	179.3
75°	154.9	154.9	158.9	158.9	154.9	154.9	154.9	150.8	146.7	138.6	130.4
77.5°	114.1	114.1	114.1	114.1	110.0	110.0	110.0	106.0	101.9	97.8	89.7
80°	81.5	81.5	81.5	77.4	81.5	77.4	77.4	77.4	69.3	65.2	61.1
82.5°	57.1	53.0	53.0	53.0	53.0	53.0	53.0	48.9	48.9	44.8	40.8
85°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	28.5	24.5	24.5
87.5°	16.3	20.4	20.4	20.4	20.4	20.4	20.4	16.3	16.3	16.3	12.2
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°	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3
2.5°	3358.0	3358.0	3366.2	3353.9	3374.3	3362.1	3358.0	3378.4	3366.2	3362.1	3370.2
5°	3329.5	3333.6	3337.6	3329.5	3349.9	3337.6	3337.6	3358.0	3349.9	3345.8	3358.0
7.5°	3292.8	3296.9	3305.0	3300.9	3317.3	3309.1	3313.2	3333.6	3325.4	3325.4	3337.6
10°	3248.0	3256.1	3264.3	3264.3	3284.6	3276.5	3276.5	3300.9	3292.8	3296.9	3313.2
12.5°	3195.0	3207.2	3219.4	3223.5	3243.9	3231.7	3235.7	3264.3	3260.2	3264.3	3280.6
15°	3137.9	3154.2	3166.5	3166.5	3190.9	3178.7	3190.9	3219.4	3211.3	3227.6	3248.0
17.5°	3072.7	3089.0	3105.3	3109.4	3133.9	3125.7	3142.0	3170.5	3170.5	3178.7	3203.1
20°	3011.6	3032.0	3040.1	3052.4	3076.8	3072.7	3080.9	3113.5	3113.5	3125.7	3150.2
22.5°	2930.1	2950.5	2966.8	2979.0	2999.4	2999.4	3011.6	3040.1	3040.1	3048.3	3072.7
25°	2840.4	2864.9	2877.1	2889.3	2909.7	2905.7	2917.9	2942.3	2946.4	2954.6	2979.0
27.5°	2726.3	2746.7	2763.0	2771.2	2799.7	2783.4	2795.6	2824.1	2820.1	2828.2	2848.6
30°	2583.7	2604.1	2620.4	2620.4	2644.8	2644.8	2657.1	2669.3	2669.3	2677.4	2693.7
32.5°	2416.6	2441.1	2441.1	2453.3	2469.6	2453.3	2469.6	2485.9	2477.8	2490.0	2502.2
35°	2225.1	2237.3	2241.4	2241.4	2253.6	2249.5	2245.5	2257.7	2249.5	2269.9	2282.1
37.5°	1992.8	2009.1	2000.9	2009.1	2005.0	1992.8	1992.8	2013.2	1996.9	2000.9	2013.2
40°	1768.7	1768.7	1764.6	1744.2	1748.3	1736.1	1732.0	1736.1	1719.8	1715.7	1732.0
42.5°	1536.4	1532.3	1520.1	1491.5	1495.6	1475.2	1458.9	1458.9	1450.8	1446.7	1450.8
45°	1328.5	1316.3	1295.9	1263.3	1255.2	1238.9	1206.3	1198.1	1185.9	1185.9	1190.0
47.5°	1137.0	1120.7	1088.1	1051.4	1031.0	1010.7	978.1	965.8	945.5	937.3	945.5
50°	978.1	949.5	908.8	855.8	835.4	811.0	778.4	758.0	737.6	729.5	725.4
52.5°	831.4	790.6	749.8	684.6	668.3	643.9	599.1	578.7	558.3	542.0	542.0
55°	705.0	668.3	611.3	550.2	525.7	501.3	456.4	427.9	407.5	399.4	391.2
57.5°	590.9	550.2	497.2	432.0	407.5	383.1	338.2	309.7	289.3	277.1	269.0
60°	497.2	452.4	399.4	342.3	313.8	289.3	244.5	216.0	195.6	183.4	175.2
62.5°	407.5	370.8	317.9	264.9	240.4	216.0	179.3	150.8	130.4	122.3	110.0
65°	342.3	305.6	256.7	211.9	191.5	167.1	134.5	110.0	93.7	81.5	73.4
67.5°	277.1	248.6	207.8	167.1	146.7	130.4	101.9	81.5	65.2	57.1	53.0
70°	220.1	191.5	158.9	126.3	114.1	97.8	77.4	57.1	48.9	40.8	36.7
72.5°	163.0	142.6	118.2	93.7	81.5	73.4	53.0	44.8	32.6	28.5	24.5
75°	118.2	101.9	85.6	65.2	57.1	53.0	40.8	28.5	24.5	20.4	16.3
77.5°	81.5	73.4	57.1	44.8	40.8	36.7	28.5	20.4	16.3	12.2	12.2
80°	53.0	44.8	36.7	28.5	28.5	24.5	16.3	12.2	12.2	8.2	8.2
82.5°	32.6	28.5	24.5	20.4	16.3	16.3	12.2	8.2	8.2	4.1	4.1
85°	20.4	16.3	12.2	12.2	8.2	8.2	8.2	4.1	4.1	4.1	4.1
87.5°	8.2	8.2	8.2	4.1	4.1	4.1	4.1	0.0	0.0	0.0	0.0
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°	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3
2.5°	3370.2	3370.2	3378.4	3366.2	3374.3	3374.3	3382.5	3366.2	3374.3	3378.4	3386.5
5°	3353.9	3358.0	3366.2	3362.1	3366.2	3366.2	3374.3	3353.9	3370.2	3370.2	3382.5
7.5°	3337.6	3337.6	3345.8	3341.7	3349.9	3353.9	3362.1	3345.8	3362.1	3362.1	3374.3
10°	3317.3	3317.3	3329.5	3325.4	3337.6	3341.7	3353.9	3337.6	3353.9	3358.0	3370.2
12.5°	3288.7	3292.8	3305.0	3305.0	3317.3	3325.4	3337.6	3329.5	3349.9	3353.9	3370.2
15°	3256.1	3264.3	3280.6	3276.5	3288.7	3300.9	3317.3	3305.0	3333.6	3341.7	3358.0
17.5°	3215.4	3223.5	3235.7	3235.7	3248.0	3256.1	3276.5	3268.3	3292.8	3296.9	3317.3
20°	3154.2	3166.5	3182.8	3178.7	3190.9	3199.1	3215.4	3207.2	3231.7	3239.8	3260.2
22.5°	3080.9	3089.0	3101.3	3101.3	3113.5	3121.6	3137.9	3125.7	3150.2	3154.2	3170.5
25°	2983.1	2991.2	2999.4	3003.5	3015.7	3019.8	3027.9	3019.8	3040.1	3044.2	3064.6
27.5°	2856.7	2860.8	2873.0	2873.0	2881.2	2885.3	2897.5	2881.2	2909.7	2909.7	2922.0
30°	2706.0	2701.9	2718.2	2710.0	2718.2	2718.2	2730.4	2722.3	2742.6	2734.5	2746.7
32.5°	2506.3	2514.4	2514.4	2506.3	2522.6	2518.5	2518.5	2510.4	2522.6	2526.7	2534.8
35°	2274.0	2286.2	2286.2	2290.3	2294.4	2282.1	2286.2	2261.8	2282.1	2286.2	2290.3
37.5°	2021.3	2009.1	2017.2	2005.0	2025.4	2000.9	2000.9	1984.6	2000.9	2000.9	2005.0
40°	1732.0	1727.9	1736.1	1727.9	1723.8	1719.8	1711.6	1699.4	1715.7	1707.5	1719.8
42.5°	1458.9	1454.9	1454.9	1446.7	1442.6	1442.6	1434.5	1426.3	1422.3	1422.3	1442.6
45°	1177.7	1185.9	1177.7	1173.7	1181.8	1173.7	1177.7	1161.4	1169.6	1161.4	1169.6
47.5°	941.4	945.5	937.3	929.2	941.4	929.2	929.2	916.9	933.2	933.2	925.1
50°	729.5	725.4	717.2	725.4	721.3	721.3	721.3	709.1	717.2	705.0	713.2
52.5°	537.9	533.9	533.9	529.8	533.9	529.8	529.8	525.7	525.7	521.6	525.7
55°	391.2	387.1	379.0	379.0	379.0	383.1	379.0	374.9	374.9	370.8	374.9
57.5°	264.9	256.7	256.7	256.7	256.7	252.7	252.7	248.6	252.7	248.6	252.7
60°	171.2	171.2	163.0	163.0	163.0	163.0	163.0	158.9	163.0	163.0	163.0
62.5°	106.0	106.0	101.9	97.8	101.9	97.8	97.8	97.8	101.9	97.8	101.9
65°	69.3	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
67.5°	48.9	44.8	44.8	44.8	44.8	44.8	44.8	40.8	44.8	44.8	44.8
70°	32.6	32.6	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
72.5°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
75°	16.3	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
77.5°	12.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
80°	8.2	8.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
85°	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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: P252312

CATALOG NUMBER: LD6B60D010TE EU6B60708035 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3
2.5°	3374.3	3378.4	3370.2	3374.3	3366.2	3374.3	3378.4	3386.5
5°	3366.2	3370.2	3362.1	3370.2	3362.1	3370.2	3374.3	3382.5
7.5°	3358.0	3366.2	3358.0	3366.2	3358.0	3366.2	3370.2	3378.4
10°	3358.0	3370.2	3362.1	3374.3	3362.1	3370.2	3378.4	3382.5
12.5°	3358.0	3370.2	3366.2	3374.3	3370.2	3378.4	3386.5	3394.7
15°	3349.9	3362.1	3353.9	3366.2	3362.1	3366.2	3382.5	3382.5
17.5°	3305.0	3317.3	3317.3	3325.4	3325.4	3337.6	3345.8	3353.9
20°	3248.0	3260.2	3256.1	3268.3	3268.3	3280.6	3288.7	3296.9
22.5°	3162.4	3178.7	3174.6	3186.8	3182.8	3190.9	3207.2	3203.1
25°	3052.4	3072.7	3068.7	3076.8	3072.7	3072.7	3080.9	3085.0
27.5°	2917.9	2930.1	2926.0	2934.2	2926.0	2934.2	2942.3	2946.4
30°	2742.6	2750.8	2746.7	2750.8	2746.7	2754.9	2758.9	2767.1
32.5°	2530.7	2543.0	2530.7	2538.9	2534.8	2534.8	2551.1	2543.0
35°	2278.1	2282.1	2286.2	2286.2	2278.1	2282.1	2290.3	2290.3
37.5°	1996.9	2017.2	1992.8	2005.0	2000.9	2000.9	2000.9	2013.2
40°	1703.5	1707.5	1699.4	1699.4	1699.4	1695.3	1711.6	1707.5
42.5°	1426.3	1430.4	1426.3	1414.1	1418.2	1418.2	1430.4	1414.1
45°	1157.4	1165.5	1161.4	1161.4	1153.3	1153.3	1157.4	1149.2
47.5°	916.9	925.1	912.9	916.9	908.8	916.9	912.9	921.0
50°	696.9	705.0	700.9	705.0	705.0	696.9	709.1	692.8
52.5°	521.6	525.7	521.6	517.6	513.5	513.5	521.6	517.6
55°	370.8	366.8	366.8	366.8	370.8	370.8	366.8	362.7
57.5°	248.6	248.6	244.5	244.5	248.6	240.4	244.5	240.4
60°	158.9	158.9	158.9	158.9	154.9	158.9	158.9	158.9
62.5°	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
65°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
67.5°	40.8	44.8	44.8	44.8	40.8	40.8	40.8	40.8
70°	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
72.5°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
75°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
77.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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)