

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: P252520

Luminaire Tested: **LD6B60D010TE EU6B60708035 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252520
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 EU6B60708035 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS 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: 5201.0 lumens
Efficiency: N/A
Efficacy: 83.2 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

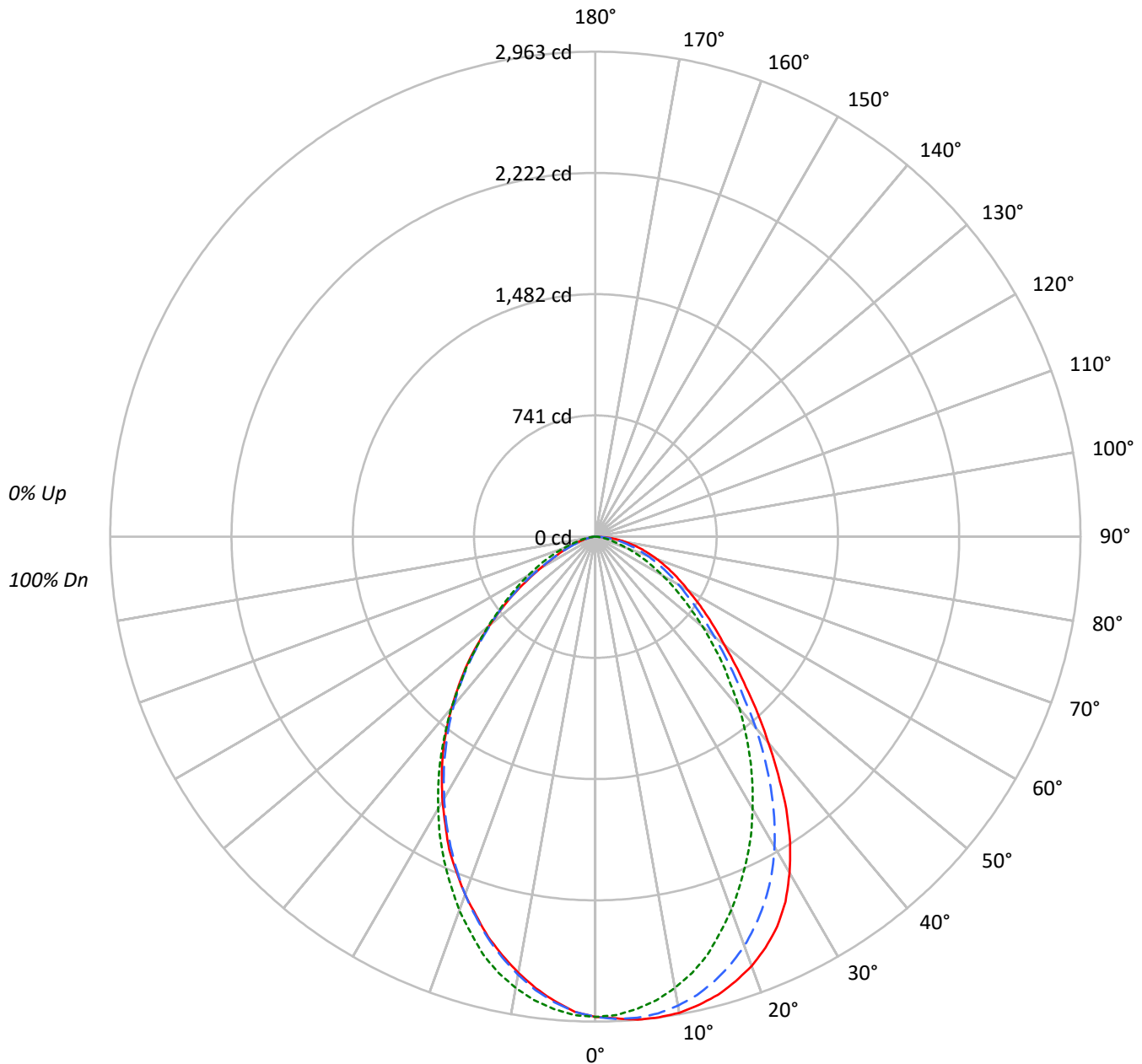
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	191423	191423	191423
5°	194027	189757	186554
10°	195727	185472	179258
15°	195703	178635	170929
20°	193807	168626	161551
25°	189213	157237	151953
30°	178676	144595	140602
35°	161956	131126	129501
40°	139867	116617	116268
45°	119943	101518	102275
50°	104227	86861	85622
55°	93634	73239	68599
60°	85074	61678	50509
65°	79888	50958	37111
70°	76186	39638	27201
75°	72924	28761	18502
80°	68904	19912	12248
85°	61007	12201	6138



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.4	5.3
10°-20°	751.7	14.5
20°-30°	1043.6	20.1
30°-40°	1080.9	20.8
40°-50°	888.3	17.1
50°-60°	610.5	11.7
60°-70°	350.9	6.7
70°-80°	161.3	3.1
80°-90°	39.3	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°	2069.7	39.8
0°-40°	3150.7	60.6
0°-60°	4649.4	89.4
0°-90°	5201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5201.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2934	2934	2934	2934	2934	
5°	2963	2950	2898	2857	2849	282
15°	2898	2812	2645	2539	2531	816
25°	2628	2453	2184	2091	2111	1203
35°	2034	1866	1646	1598	1626	1261
45°	1300	1202	1100	1088	1108	1012
55°	823	746	644	607	603	741
65°	518	452	330	232	240	515
75°	289	228	114	73	73	306
85°	82	57	16	8	8	91
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°	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1
2.5°	2946.4	2970.8	2954.5	2950.4	2958.6	2958.6	2958.6	2946.4	2954.5	2942.3	2950.4
5°	2962.7	2983.0	2966.7	2958.6	2966.7	2970.8	2958.6	2950.4	2962.7	2946.4	2950.4
7.5°	2962.7	2983.0	2966.7	2962.7	2966.7	2966.7	2962.7	2946.4	2954.5	2938.2	2938.2
10°	2954.5	2970.8	2954.5	2946.4	2950.4	2946.4	2946.4	2926.0	2930.1	2909.7	2909.7
12.5°	2930.1	2950.4	2930.1	2921.9	2921.9	2921.9	2909.7	2893.4	2897.5	2873.0	2868.9
15°	2897.5	2913.8	2893.4	2885.2	2885.2	2881.2	2873.0	2848.6	2848.6	2824.1	2811.9
17.5°	2848.6	2864.9	2848.6	2836.3	2832.3	2824.1	2816.0	2791.5	2783.4	2754.8	2742.6
20°	2791.5	2803.7	2787.4	2775.2	2767.1	2758.9	2742.6	2718.1	2710.0	2681.5	2661.1
22.5°	2718.1	2734.4	2710.0	2697.8	2689.6	2677.4	2661.1	2636.6	2624.4	2587.7	2563.3
25°	2628.5	2636.6	2616.3	2604.0	2587.7	2579.6	2567.4	2534.8	2522.5	2481.8	2453.3
27.5°	2514.4	2522.5	2498.1	2489.9	2469.6	2461.4	2445.1	2416.6	2400.3	2359.5	2331.0
30°	2371.8	2379.9	2363.6	2351.4	2335.1	2318.8	2306.6	2278.0	2253.6	2212.8	2188.4
32.5°	2212.8	2225.1	2208.8	2192.5	2163.9	2168.0	2147.6	2119.1	2098.7	2062.0	2033.5
35°	2033.5	2041.7	2021.3	2017.2	2000.9	1984.6	1964.2	1943.9	1931.6	1890.9	1866.4
37.5°	1833.8	1854.2	1833.8	1817.5	1809.4	1797.2	1784.9	1756.4	1748.3	1723.8	1691.2
40°	1642.3	1654.5	1642.3	1626.0	1613.8	1613.8	1597.5	1581.2	1560.8	1536.3	1524.1
42.5°	1471.1	1463.0	1458.9	1450.8	1434.5	1430.4	1426.3	1405.9	1393.7	1369.3	1348.9
45°	1300.0	1304.1	1295.9	1291.8	1279.6	1271.5	1263.3	1247.0	1242.9	1218.5	1202.2
47.5°	1157.4	1153.3	1145.1	1145.1	1137.0	1128.8	1120.7	1108.5	1104.4	1084.0	1067.7
50°	1026.9	1031.0	1026.9	1022.9	1010.6	1006.6	998.4	990.3	982.1	961.7	945.4
52.5°	921.0	916.9	912.8	912.8	900.6	896.5	888.4	880.2	872.1	851.7	839.5
55°	823.2	823.2	819.1	815.0	802.8	798.7	794.7	786.5	774.3	758.0	745.8
57.5°	733.5	733.5	729.5	725.4	717.2	717.2	709.1	700.9	692.8	676.5	660.2
60°	652.0	656.1	652.0	648.0	639.8	639.8	635.7	623.5	619.4	599.1	586.8
62.5°	582.8	582.8	582.8	578.7	574.6	566.5	566.5	554.2	546.1	533.8	517.5
65°	517.5	517.5	517.5	513.5	505.3	501.2	497.2	489.0	480.9	468.6	452.3
67.5°	456.4	456.4	456.4	452.3	444.2	440.1	436.0	432.0	419.7	407.5	391.2
70°	399.4	399.4	395.3	391.2	387.1	383.1	379.0	370.8	362.7	346.4	334.2
72.5°	342.3	342.3	342.3	334.2	330.1	330.1	321.9	317.9	309.7	293.4	281.2
75°	289.3	285.3	285.3	281.2	277.1	273.0	269.0	264.9	252.7	244.5	228.2
77.5°	236.4	236.4	232.3	228.2	228.2	224.1	220.1	211.9	207.8	195.6	183.4
80°	183.4	183.4	183.4	183.4	179.3	175.2	175.2	167.1	163.0	150.8	142.6
82.5°	138.6	134.5	134.5	134.5	130.4	126.3	126.3	122.3	118.2	110.0	101.9
85°	81.5	77.4	77.4	77.4	73.4	73.4	69.3	69.3	65.2	57.1	57.1
87.5°	24.5	24.5	28.5	28.5	24.5	24.5	24.5	24.5	24.5	20.4	20.4
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°	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1
2.5°	2942.3	2954.5	2938.2	2934.1	2950.4	2942.3	2938.2	2930.1	2934.1	2926.0	2913.8
5°	2938.2	2954.5	2934.1	2921.9	2942.3	2930.1	2921.9	2913.8	2913.8	2897.5	2889.3
7.5°	2926.0	2934.1	2913.8	2901.5	2913.8	2901.5	2893.4	2881.2	2877.1	2856.7	2844.5
10°	2893.4	2901.5	2877.1	2860.8	2873.0	2856.7	2844.5	2832.3	2824.1	2799.7	2783.4
12.5°	2848.6	2852.6	2824.1	2803.7	2811.9	2799.7	2779.3	2763.0	2754.8	2730.4	2710.0
15°	2787.4	2791.5	2758.9	2730.4	2738.5	2722.2	2697.8	2681.5	2669.2	2644.8	2616.3
17.5°	2714.1	2710.0	2673.3	2644.8	2648.9	2628.5	2604.0	2579.6	2563.3	2534.8	2514.4
20°	2632.6	2620.3	2579.6	2547.0	2551.1	2526.6	2498.1	2473.6	2453.3	2428.8	2400.3
22.5°	2530.7	2514.4	2477.7	2437.0	2441.0	2420.7	2379.9	2359.5	2339.2	2306.6	2282.1
25°	2420.7	2396.2	2359.5	2318.8	2318.8	2294.3	2261.7	2237.3	2216.9	2184.3	2155.8
27.5°	2290.3	2278.0	2229.1	2196.5	2192.5	2168.0	2139.5	2110.9	2086.5	2058.0	2029.4
30°	2147.6	2127.2	2090.6	2053.9	2045.7	2025.4	1996.8	1964.2	1947.9	1919.4	1895.0
32.5°	1996.8	1976.5	1935.7	1899.0	1895.0	1878.7	1854.2	1821.6	1805.3	1784.9	1768.6
35°	1825.7	1817.5	1776.8	1748.3	1748.3	1732.0	1707.5	1679.0	1666.8	1646.4	1626.0
37.5°	1662.7	1650.5	1613.8	1589.3	1589.3	1568.9	1544.5	1532.3	1520.0	1503.7	1491.5
40°	1491.5	1483.4	1454.8	1430.4	1434.5	1418.2	1401.9	1385.6	1377.4	1369.3	1357.0
42.5°	1332.6	1324.4	1304.1	1283.7	1283.7	1271.5	1255.2	1242.9	1234.8	1222.6	1218.5
45°	1190.0	1177.7	1161.4	1141.1	1141.1	1128.8	1120.7	1112.5	1108.5	1100.3	1088.1
47.5°	1051.4	1043.2	1026.9	1006.6	1006.6	1006.6	990.3	978.0	978.0	969.9	965.8
50°	933.2	921.0	908.8	892.5	892.5	884.3	872.1	859.9	859.9	855.8	847.6
52.5°	823.2	815.0	798.7	782.4	782.4	774.3	762.1	758.0	753.9	741.7	737.6
55°	729.5	721.3	709.1	688.7	684.6	680.6	668.3	660.2	656.1	643.9	643.9
57.5°	643.9	635.7	615.4	603.1	599.1	590.9	578.7	570.5	566.5	558.3	550.2
60°	570.5	558.3	542.0	525.7	521.6	513.5	501.2	493.1	489.0	472.7	464.6
62.5°	501.2	489.0	472.7	456.4	452.3	444.2	427.9	419.7	411.6	395.3	387.1
65°	436.0	423.8	407.5	391.2	383.1	379.0	362.7	350.5	342.3	330.1	313.8
67.5°	374.9	362.7	346.4	326.0	326.0	313.8	301.6	289.3	277.1	264.9	252.7
70°	317.9	305.6	289.3	273.0	269.0	260.8	248.6	232.3	224.1	207.8	195.6
72.5°	264.9	252.7	236.4	220.1	216.0	207.8	195.6	179.3	167.1	154.9	142.6
75°	216.0	203.8	187.5	175.2	171.2	163.0	150.8	134.5	122.3	114.1	101.9
77.5°	171.2	158.9	146.7	134.5	130.4	122.3	110.0	101.9	89.7	81.5	69.3
80°	130.4	122.3	110.0	101.9	97.8	89.7	81.5	69.3	61.1	53.0	48.9
82.5°	93.7	85.6	77.4	65.2	65.2	57.1	53.0	44.8	36.7	32.6	28.5
85°	53.0	44.8	40.8	36.7	32.6	32.6	28.5	24.5	20.4	16.3	16.3
87.5°	16.3	16.3	12.2	12.2	12.2	12.2	8.2	8.2	8.2	8.2	8.2
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1
2.5°	2913.8	2917.8	2909.7	2917.8	2909.7	2913.8	2905.6	2913.8	2905.6	2913.8	2897.5
5°	2885.2	2885.2	2873.0	2881.2	2873.0	2877.1	2860.8	2864.9	2856.7	2864.9	2848.6
7.5°	2836.3	2840.4	2820.0	2828.2	2816.0	2816.0	2803.7	2807.8	2795.6	2799.7	2787.4
10°	2779.3	2775.2	2754.8	2763.0	2746.7	2746.7	2734.4	2734.4	2718.1	2722.2	2705.9
12.5°	2697.8	2693.7	2669.2	2677.4	2661.1	2661.1	2648.9	2648.9	2632.6	2640.7	2624.4
15°	2604.0	2600.0	2575.5	2579.6	2563.3	2563.3	2547.0	2551.1	2538.8	2547.0	2530.7
17.5°	2498.1	2494.0	2469.6	2473.6	2453.3	2457.3	2445.1	2441.0	2432.9	2437.0	2424.7
20°	2388.1	2379.9	2355.5	2359.5	2351.4	2339.2	2331.0	2335.1	2326.9	2335.1	2322.9
22.5°	2274.0	2257.7	2237.3	2237.3	2229.1	2229.1	2216.9	2225.1	2208.8	2221.0	2212.8
25°	2143.5	2131.3	2115.0	2123.2	2106.9	2106.9	2094.6	2098.7	2090.6	2098.7	2090.6
27.5°	2017.2	2009.1	1984.6	1992.8	1980.5	1984.6	1972.4	1976.5	1972.4	1980.5	1972.4
30°	1882.7	1878.7	1862.4	1862.4	1858.3	1854.2	1850.1	1850.1	1846.1	1858.3	1850.1
32.5°	1756.4	1744.2	1727.9	1740.1	1719.7	1732.0	1723.8	1732.0	1723.8	1732.0	1727.9
35°	1626.0	1621.9	1601.5	1605.6	1601.5	1601.5	1597.5	1597.5	1597.5	1609.7	1609.7
37.5°	1487.4	1483.4	1471.1	1475.2	1467.1	1463.0	1463.0	1471.1	1471.1	1479.3	1479.3
40°	1353.0	1357.0	1344.8	1344.8	1340.7	1340.7	1340.7	1348.9	1344.8	1353.0	1348.9
42.5°	1218.5	1218.5	1206.3	1210.3	1206.3	1210.3	1210.3	1218.5	1218.5	1222.6	1218.5
45°	1092.1	1092.1	1088.1	1092.1	1084.0	1088.1	1084.0	1092.1	1088.1	1092.1	1092.1
47.5°	965.8	965.8	965.8	961.7	961.7	961.7	961.7	961.7	957.7	965.8	961.7
50°	847.6	851.7	847.6	847.6	843.6	847.6	843.6	843.6	835.4	839.5	839.5
52.5°	741.7	741.7	733.5	733.5	733.5	729.5	729.5	729.5	725.4	725.4	717.2
55°	639.8	639.8	631.7	631.7	627.6	623.5	619.4	619.4	607.2	607.2	595.0
57.5°	546.1	542.0	529.8	529.8	521.6	517.5	513.5	509.4	501.2	493.1	489.0
60°	460.5	452.3	444.2	440.1	432.0	423.8	415.7	407.5	399.4	395.3	391.2
62.5°	379.0	366.8	358.6	354.5	346.4	334.2	326.0	317.9	309.7	305.6	297.5
65°	305.6	293.4	281.2	277.1	269.0	260.8	248.6	240.4	232.3	228.2	228.2
67.5°	240.4	228.2	211.9	211.9	203.8	195.6	187.5	179.3	175.2	179.3	179.3
70°	179.3	171.2	158.9	154.9	146.7	138.6	134.5	134.5	134.5	138.6	134.5
72.5°	134.5	122.3	114.1	110.0	106.0	101.9	101.9	101.9	97.8	101.9	101.9
75°	93.7	85.6	77.4	77.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
77.5°	65.2	57.1	53.0	53.0	53.0	48.9	48.9	48.9	48.9	48.9	48.9
80°	40.8	40.8	36.7	36.7	32.6	32.6	32.6	32.6	32.6	32.6	32.6
82.5°	24.5	24.5	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
85°	12.2	12.2	12.2	12.2	12.2	8.2	8.2	8.2	8.2	8.2	8.2
87.5°	4.1	4.1	4.1	4.1	4.1	8.2	8.2	8.2	8.2	8.2	8.2
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: P252520

CATALOG NUMBER: LD6B60D010TE EU6B60708035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1
2.5°	2897.5	2909.7	2893.4	2905.6	2901.5	2897.5	2889.3	2905.6
5°	2848.6	2852.6	2836.3	2852.6	2848.6	2840.4	2832.3	2848.6
7.5°	2779.3	2791.5	2771.1	2787.4	2783.4	2775.2	2767.1	2783.4
10°	2701.8	2714.1	2697.8	2710.0	2710.0	2701.8	2689.6	2705.9
12.5°	2616.3	2624.4	2608.1	2624.4	2620.3	2612.2	2608.1	2620.3
15°	2522.5	2534.8	2518.5	2530.7	2526.6	2522.5	2518.5	2530.7
17.5°	2420.7	2432.9	2420.7	2432.9	2432.9	2420.7	2416.6	2424.7
20°	2318.8	2326.9	2314.7	2326.9	2322.9	2322.9	2314.7	2326.9
22.5°	2204.7	2216.9	2208.8	2216.9	2212.8	2212.8	2208.8	2216.9
25°	2090.6	2102.8	2090.6	2102.8	2098.7	2098.7	2090.6	2110.9
27.5°	1976.5	1984.6	1972.4	1988.7	1984.6	1976.5	1980.5	1984.6
30°	1854.2	1862.4	1854.2	1866.4	1866.4	1866.4	1858.3	1866.4
32.5°	1732.0	1744.2	1732.0	1744.2	1740.1	1740.1	1736.0	1744.2
35°	1609.7	1613.8	1605.6	1617.8	1617.8	1621.9	1613.8	1626.0
37.5°	1483.4	1487.4	1483.4	1487.4	1495.6	1483.4	1491.5	1495.6
40°	1353.0	1361.1	1357.0	1361.1	1361.1	1365.2	1361.1	1365.2
42.5°	1222.6	1230.7	1222.6	1234.8	1230.7	1230.7	1234.8	1234.8
45°	1088.1	1100.3	1092.1	1100.3	1104.4	1100.3	1100.3	1108.5
47.5°	961.7	969.9	965.8	969.9	969.9	969.9	969.9	978.0
50°	835.4	839.5	839.5	843.6	843.6	847.6	839.5	843.6
52.5°	709.1	717.2	717.2	717.2	713.2	717.2	717.2	717.2
55°	595.0	599.1	590.9	599.1	599.1	595.0	595.0	603.1
57.5°	484.9	484.9	484.9	484.9	484.9	480.9	484.9	484.9
60°	383.1	387.1	383.1	383.1	383.1	383.1	379.0	387.1
62.5°	297.5	297.5	293.4	297.5	297.5	297.5	301.6	301.6
65°	232.3	236.4	232.3	236.4	236.4	236.4	236.4	240.4
67.5°	183.4	183.4	183.4	183.4	183.4	183.4	183.4	183.4
70°	138.6	138.6	138.6	142.6	138.6	138.6	138.6	142.6
72.5°	101.9	101.9	101.9	101.9	101.9	101.9	106.0	106.0
75°	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
77.5°	48.9	48.9	48.9	53.0	48.9	53.0	48.9	48.9
80°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
82.5°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
85°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
87.5°	8.2	8.2	8.2	8.2	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



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)