

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: P252424

Luminaire Tested: **LD6B60D010TE EU6B60709050 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252424
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 EU6B60709050 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4706.0 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

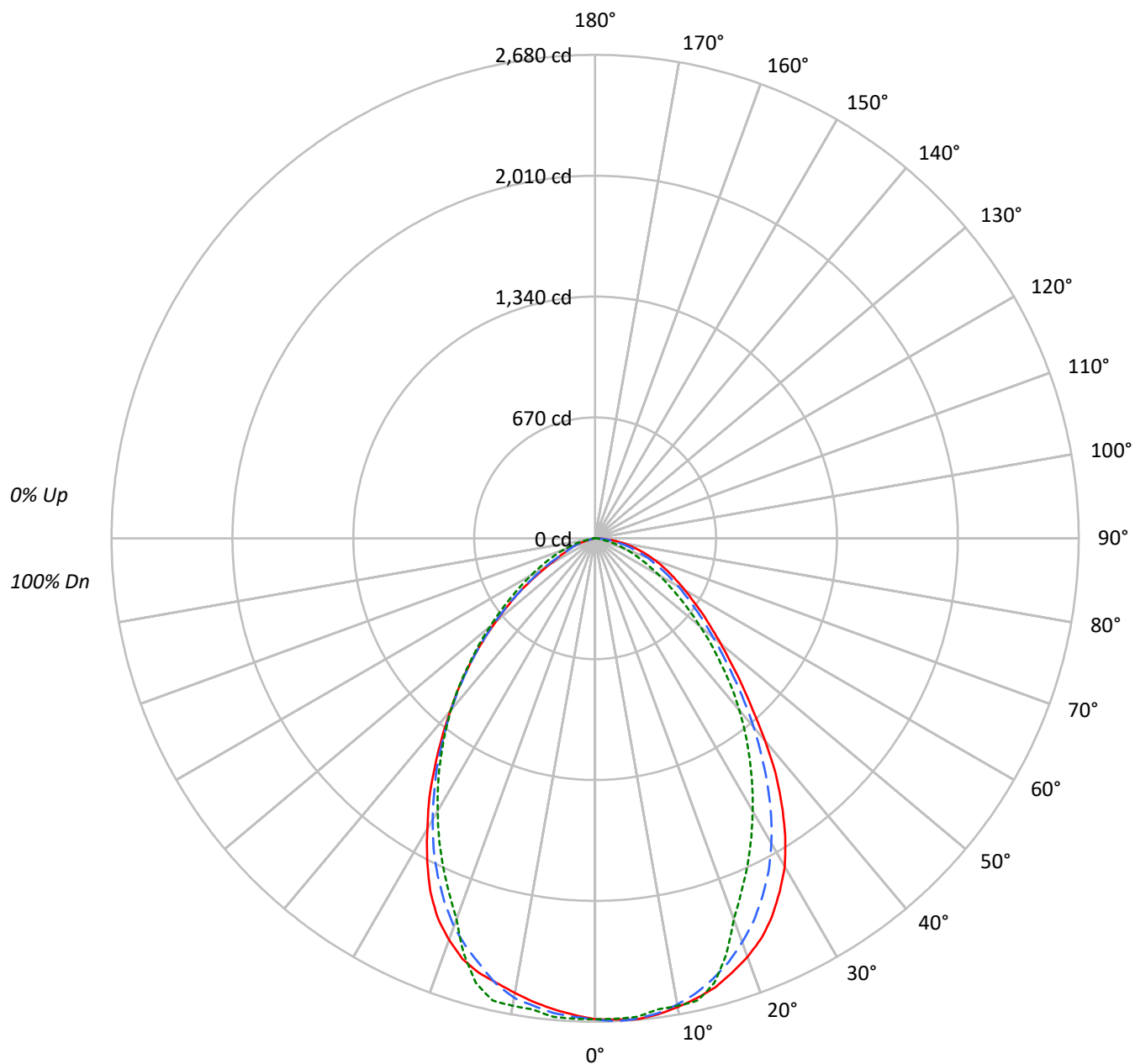
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	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	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°	173964	173964	173964
5°	175303	174399	171675
10°	174813	174349	169533
15°	174015	172381	168403
20°	171424	156032	164446
25°	166768	143833	155553
30°	158351	131479	140090
35°	143694	118869	123281
40°	124751	105878	106176
45°	106399	91056	90096
50°	92088	76975	72753
55°	82328	64208	56326
60°	75001	53315	37957
65°	70023	43842	28327
70°	66725	35670	23787
75°	62841	25308	7865
80°	59850	12999	2592
85°	49255	7785	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.8	5.4
10°-20°	704.3	15.0
20°-30°	972.1	20.7
30°-40°	989.2	21.0
40°-50°	795.0	16.9
50°-60°	528.6	11.2
60°-70°	301.2	6.4
70°-80°	135.3	2.9
80°-90°	28.5	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°	1928.1	41.0
0°-40°	2917.4	62.0
0°-60°	4241.0	90.1
0°-90°	4706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4706.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2666	2666	2666	2666	2666	
5°	2677	2673	2663	2642	2621	254
15°	2576	2528	2552	2452	2493	725
25°	2317	2192	1998	2064	2161	1062
35°	1804	1666	1492	1520	1548	1121
45°	1153	1084	987	976	976	894
55°	724	675	564	502	495	650
65°	454	405	284	184	184	452
75°	249	208	100	42	31	266
85°	66	45	10	4	0	78
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°	2666.5	2666.5	2666.5	2666.5	2666.5	2666.5	2666.5	2666.5	2666.5	2666.5	2666.5
2.5°	2669.9	2683.8	2680.3	2676.8	2680.3	2676.8	2669.9	2669.9	2663.0	2663.0	2680.3
5°	2676.8	2683.8	2680.3	2676.8	2676.8	2680.3	2666.5	2666.5	2659.5	2656.1	2673.4
7.5°	2663.0	2673.4	2666.5	2666.5	2663.0	2666.5	2652.6	2652.6	2642.2	2638.8	2656.1
10°	2638.8	2652.6	2645.7	2645.7	2645.7	2638.8	2631.8	2628.4	2618.0	2614.5	2624.9
12.5°	2611.1	2621.4	2618.0	2611.1	2611.1	2611.1	2597.2	2593.7	2579.9	2573.0	2583.3
15°	2576.4	2583.3	2579.9	2576.4	2569.5	2569.5	2555.6	2548.7	2534.9	2521.0	2527.9
17.5°	2524.5	2534.9	2527.9	2524.5	2514.1	2514.1	2500.2	2493.3	2472.5	2458.7	2462.1
20°	2469.1	2472.5	2469.1	2462.1	2451.8	2448.3	2434.4	2420.6	2403.3	2386.0	2382.5
22.5°	2403.3	2406.7	2396.4	2389.4	2379.0	2375.6	2358.3	2347.9	2320.2	2299.4	2295.9
25°	2316.7	2320.2	2320.2	2302.9	2295.9	2289.0	2271.7	2254.4	2230.1	2202.4	2192.0
27.5°	2212.8	2223.2	2216.3	2199.0	2185.1	2181.6	2164.3	2150.5	2119.3	2095.1	2081.2
30°	2102.0	2098.5	2095.1	2084.7	2063.9	2060.4	2043.1	2025.8	2001.6	1970.4	1953.1
32.5°	1960.0	1960.0	1956.6	1946.2	1925.4	1918.5	1904.6	1883.8	1856.1	1831.9	1814.6
35°	1804.2	1807.7	1804.2	1783.4	1769.6	1762.6	1755.7	1731.5	1707.2	1679.5	1665.7
37.5°	1641.4	1631.0	1634.5	1617.2	1599.9	1606.8	1586.0	1575.6	1547.9	1527.2	1513.3
40°	1464.8	1471.7	1457.9	1451.0	1440.6	1430.2	1430.2	1412.9	1399.0	1374.8	1367.9
42.5°	1291.7	1302.1	1298.6	1291.7	1277.8	1281.3	1264.0	1257.0	1239.7	1229.3	1219.0
45°	1153.2	1153.2	1153.2	1146.2	1142.8	1135.8	1125.5	1115.1	1104.7	1090.8	1083.9
47.5°	1018.1	1018.1	1021.6	1014.6	1007.7	1004.3	997.3	997.3	980.0	966.2	959.2
50°	907.3	907.3	907.3	900.4	893.4	893.4	886.5	879.6	869.2	858.8	851.9
52.5°	806.9	806.9	806.9	799.9	796.5	793.0	789.5	786.1	772.2	765.3	758.4
55°	723.8	720.3	720.3	716.8	709.9	709.9	706.4	699.5	689.1	678.7	675.3
57.5°	640.6	644.1	640.6	640.6	633.7	633.7	626.8	623.3	612.9	606.0	599.1
60°	574.8	574.8	574.8	571.4	564.5	567.9	561.0	557.5	547.1	536.8	529.8
62.5°	509.1	512.5	512.5	509.1	502.1	502.1	498.7	495.2	484.8	474.4	464.0
65°	453.6	453.6	453.6	450.2	446.7	446.7	443.3	439.8	429.4	415.6	405.2
67.5°	401.7	398.2	398.2	398.2	394.8	391.3	387.8	384.4	374.0	363.6	349.8
70°	349.8	349.8	349.8	346.3	339.4	342.8	339.4	335.9	325.5	315.1	304.7
72.5°	301.3	301.3	297.8	294.3	294.3	290.9	290.9	287.4	277.0	263.2	252.8
75°	249.3	249.3	249.3	249.3	242.4	245.9	238.9	235.5	228.6	218.2	207.8
77.5°	204.3	204.3	204.3	200.9	197.4	197.4	193.9	190.5	180.1	173.1	159.3
80°	159.3	159.3	159.3	159.3	155.8	152.4	148.9	145.4	138.5	128.1	117.7
82.5°	117.7	117.7	114.3	114.3	114.3	110.8	107.4	103.9	97.0	90.0	83.1
85°	65.8	69.3	69.3	62.3	65.8	62.3	62.3	55.4	55.4	48.5	45.0
87.5°	24.2	20.8	20.8	20.8	20.8	20.8	20.8	17.3	17.3	17.3	13.9
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°	2666.5	2666.5	2666.5	2666.5	2666.5	2666.5	2666.5	2666.5	2666.5	2666.5	2666.5
2.5°	2666.5	2663.0	2676.8	2676.8	2656.1	2666.5	2669.9	2663.0	2663.0	2666.5	2656.1
5°	2659.5	2652.6	2666.5	2669.9	2649.1	2659.5	2663.0	2656.1	2659.5	2663.0	2649.1
7.5°	2635.3	2635.3	2645.7	2649.1	2628.4	2638.8	2638.8	2631.8	2635.3	2635.3	2624.9
10°	2611.1	2600.7	2611.1	2611.1	2593.7	2597.2	2604.1	2600.7	2614.5	2631.8	2631.8
12.5°	2566.0	2555.6	2573.0	2573.0	2562.6	2576.4	2593.7	2604.1	2618.0	2624.9	2604.1
15°	2510.6	2514.1	2545.3	2569.5	2559.1	2579.9	2597.2	2590.3	2573.0	2552.2	2521.0
17.5°	2437.9	2427.5	2455.2	2469.1	2455.2	2462.1	2476.0	2462.1	2434.4	2417.1	2375.6
20°	2354.8	2327.1	2327.1	2320.2	2295.9	2295.9	2292.5	2268.2	2257.8	2247.4	2230.1
22.5°	2261.3	2230.1	2219.7	2199.0	2178.2	2174.7	2164.3	2140.1	2126.2	2119.3	2098.5
25°	2153.9	2126.2	2108.9	2088.1	2057.0	2050.1	2039.7	2015.4	2008.5	1998.1	1980.8
27.5°	2043.1	2008.5	1984.3	1963.5	1935.8	1932.3	1911.5	1894.2	1880.4	1873.4	1859.6
30°	1915.0	1876.9	1859.6	1831.9	1811.1	1804.2	1786.9	1762.6	1752.2	1745.3	1734.9
32.5°	1773.0	1741.9	1724.5	1700.3	1672.6	1676.1	1655.3	1634.5	1627.6	1620.7	1610.3
35°	1634.5	1603.3	1582.6	1561.8	1544.5	1537.5	1523.7	1506.4	1496.0	1492.5	1485.6
37.5°	1482.1	1457.9	1440.6	1419.8	1406.0	1399.0	1392.1	1374.8	1367.9	1367.9	1354.0
40°	1333.2	1312.5	1298.6	1288.2	1270.9	1267.4	1260.5	1250.1	1246.7	1243.2	1232.8
42.5°	1198.2	1170.5	1160.1	1153.2	1142.8	1135.8	1132.4	1125.5	1122.0	1118.5	1108.1
45°	1070.0	1045.8	1035.4	1028.5	1018.1	1014.6	1011.2	1000.8	993.9	986.9	983.5
47.5°	945.4	928.1	924.6	907.3	900.4	893.4	886.5	879.6	876.1	872.7	858.8
50°	838.0	827.6	810.3	799.9	793.0	789.5	775.7	765.3	761.8	758.4	748.0
52.5°	741.1	727.2	716.8	699.5	696.0	689.1	682.2	668.3	661.4	658.0	647.6
55°	654.5	644.1	630.3	616.4	606.0	602.6	592.2	578.3	571.4	564.5	557.5
57.5°	581.8	564.5	550.6	536.8	529.8	519.4	509.1	502.1	491.7	481.3	471.0
60°	512.5	498.7	481.3	467.5	460.6	453.6	439.8	429.4	419.0	408.6	398.2
62.5°	446.7	432.9	415.6	401.7	394.8	387.8	374.0	363.6	353.2	342.8	329.0
65°	387.8	374.0	360.1	346.3	339.4	332.4	318.6	304.7	294.3	284.0	270.1
67.5°	339.4	322.1	308.2	294.3	287.4	280.5	266.6	256.3	242.4	232.0	218.2
70°	287.4	273.6	263.2	249.3	242.4	235.5	221.6	207.8	197.4	187.0	173.1
72.5°	242.4	225.1	214.7	200.9	193.9	190.5	176.6	166.2	155.8	142.0	131.6
75°	193.9	180.1	166.2	155.8	148.9	145.4	131.6	121.2	110.8	100.4	90.0
77.5°	148.9	138.5	124.7	114.3	107.4	103.9	90.0	79.6	69.3	62.3	51.9
80°	110.8	97.0	90.0	79.6	76.2	69.3	62.3	51.9	45.0	34.6	27.7
82.5°	76.2	65.8	58.9	51.9	48.5	45.0	38.1	31.2	24.2	20.8	17.3
85°	41.6	34.6	31.2	27.7	24.2	24.2	20.8	17.3	13.9	10.4	6.9
87.5°	13.9	10.4	10.4	10.4	10.4	6.9	6.9	6.9	3.5	3.5	3.5
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2666.5	2666.5	2666.5	2666.5	2666.5	2666.5	2666.5	2666.5	2666.5	2666.5	2666.5
2.5°	2663.0	2663.0	2663.0	2659.5	2659.5	2659.5	2656.1	2669.9	2656.1	2652.6	2663.0
5°	2659.5	2652.6	2652.6	2652.6	2652.6	2649.1	2645.7	2652.6	2642.2	2638.8	2638.8
7.5°	2638.8	2635.3	2635.3	2631.8	2628.4	2624.9	2621.4	2624.9	2614.5	2611.1	2611.1
10°	2642.2	2635.3	2635.3	2624.9	2618.0	2607.6	2597.2	2600.7	2586.8	2576.4	2576.4
12.5°	2600.7	2583.3	2573.0	2562.6	2555.6	2552.2	2538.3	2545.3	2531.4	2527.9	2527.9
15°	2507.2	2486.4	2469.1	2462.1	2462.1	2455.2	2444.8	2458.7	2451.8	2455.2	2472.5
17.5°	2361.7	2351.3	2340.9	2337.5	2340.9	2347.9	2354.8	2375.6	2375.6	2386.0	2403.3
20°	2233.6	2226.7	2233.6	2233.6	2237.1	2250.9	2264.8	2282.1	2289.0	2299.4	2323.6
22.5°	2108.9	2108.9	2115.9	2126.2	2122.8	2147.0	2150.5	2181.6	2181.6	2202.4	2223.2
25°	1987.7	1987.7	1994.6	1998.1	2005.0	2018.9	2032.7	2057.0	2063.9	2084.7	2102.0
27.5°	1870.0	1866.5	1866.5	1870.0	1876.9	1894.2	1901.2	1928.9	1939.2	1953.1	1970.4
30°	1738.4	1734.9	1741.9	1748.8	1745.3	1762.6	1773.0	1793.8	1800.7	1814.6	1828.4
32.5°	1613.7	1613.7	1613.7	1620.7	1620.7	1634.5	1634.5	1658.7	1658.7	1669.1	1683.0
35°	1485.6	1485.6	1489.1	1492.5	1496.0	1499.5	1502.9	1516.8	1520.2	1523.7	1530.6
37.5°	1364.4	1360.9	1364.4	1364.4	1357.5	1371.3	1371.3	1385.2	1374.8	1385.2	1388.6
40°	1239.7	1239.7	1236.3	1236.3	1236.3	1243.2	1236.3	1246.7	1239.7	1246.7	1243.2
42.5°	1111.6	1111.6	1104.7	1111.6	1108.1	1108.1	1108.1	1115.1	1104.7	1111.6	1115.1
45°	983.5	980.0	980.0	976.5	976.5	976.5	980.0	980.0	976.5	983.5	983.5
47.5°	858.8	855.3	855.3	855.3	855.3	858.8	848.4	855.3	848.4	848.4	848.4
50°	751.5	748.0	744.5	741.1	737.6	737.6	734.1	734.1	727.2	723.8	720.3
52.5°	647.6	644.1	637.2	637.2	633.7	630.3	619.9	619.9	609.5	606.0	606.0
55°	554.1	543.7	540.2	533.3	533.3	526.4	519.4	512.5	502.1	495.2	495.2
57.5°	467.5	457.1	450.2	446.7	443.3	436.3	422.5	419.0	405.2	401.7	398.2
60°	391.3	380.9	370.5	363.6	360.1	349.8	335.9	329.0	322.1	311.7	301.3
62.5°	318.6	308.2	294.3	290.9	284.0	273.6	263.2	252.8	245.9	235.5	228.6
65°	256.3	245.9	235.5	228.6	221.6	211.2	200.9	190.5	183.5	180.1	176.6
67.5°	207.8	193.9	183.5	180.1	173.1	166.2	155.8	152.4	145.4	145.4	145.4
70°	162.8	152.4	142.0	138.5	135.1	128.1	121.2	121.2	121.2	121.2	121.2
72.5°	121.2	114.3	103.9	100.4	97.0	93.5	86.6	90.0	86.6	86.6	86.6
75°	76.2	69.3	62.3	58.9	55.4	51.9	48.5	45.0	41.6	38.1	38.1
77.5°	41.6	34.6	31.2	27.7	27.7	24.2	20.8	20.8	17.3	17.3	17.3
80°	24.2	20.8	17.3	13.9	13.9	10.4	10.4	10.4	10.4	6.9	6.9
82.5°	13.9	10.4	6.9	6.9	6.9	6.9	3.5	3.5	3.5	3.5	3.5
85°	6.9	6.9	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	0.0
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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: P252424

CATALOG NUMBER: LD6B60D010TE EU6B60709050 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2666.5	2666.5	2666.5	2666.5	2666.5	2666.5	2666.5	2666.5
2.5°	2645.7	2656.1	2645.7	2656.1	2656.1	2656.1	2656.1	2645.7
5°	2628.4	2635.3	2624.9	2631.8	2635.3	2631.8	2631.8	2621.4
7.5°	2597.2	2604.1	2593.7	2604.1	2607.6	2604.1	2600.7	2593.7
10°	2566.0	2569.5	2559.1	2566.0	2573.0	2573.0	2569.5	2559.1
12.5°	2517.6	2527.9	2517.6	2524.5	2531.4	2534.9	2534.9	2524.5
15°	2462.1	2479.5	2472.5	2482.9	2493.3	2496.8	2496.8	2493.3
17.5°	2406.7	2424.1	2413.7	2431.0	2441.4	2448.3	2451.8	2444.8
20°	2327.1	2347.9	2340.9	2354.8	2368.6	2379.0	2379.0	2368.6
22.5°	2223.2	2250.9	2247.4	2257.8	2275.1	2278.6	2285.5	2278.6
25°	2108.9	2129.7	2126.2	2136.6	2157.4	2157.4	2160.9	2160.9
27.5°	1977.3	1998.1	1994.6	2001.6	2015.4	2018.9	2022.4	2015.4
30°	1835.4	1845.7	1845.7	1856.1	1866.5	1870.0	1870.0	1859.6
32.5°	1679.5	1693.4	1700.3	1696.8	1707.2	1714.2	1710.7	1710.7
35°	1537.5	1541.0	1544.5	1547.9	1551.4	1558.3	1551.4	1547.9
37.5°	1385.2	1395.6	1388.6	1395.6	1402.5	1399.0	1395.6	1395.6
40°	1246.7	1250.1	1243.2	1250.1	1253.6	1253.6	1253.6	1246.7
42.5°	1108.1	1115.1	1108.1	1115.1	1115.1	1115.1	1115.1	1111.6
45°	969.6	976.5	976.5	980.0	980.0	976.5	976.5	976.5
47.5°	841.5	848.4	841.5	848.4	851.9	845.0	845.0	845.0
50°	720.3	716.8	716.8	720.3	720.3	720.3	720.3	716.8
52.5°	595.6	599.1	599.1	599.1	602.6	599.1	602.6	602.6
55°	488.3	488.3	488.3	491.7	488.3	488.3	491.7	495.2
57.5°	391.3	387.8	384.4	384.4	387.8	384.4	384.4	384.4
60°	301.3	297.8	294.3	294.3	294.3	294.3	294.3	290.9
62.5°	225.1	225.1	225.1	228.6	228.6	228.6	228.6	232.0
65°	180.1	180.1	180.1	180.1	180.1	180.1	180.1	183.5
67.5°	145.4	145.4	145.4	148.9	148.9	148.9	148.9	148.9
70°	121.2	121.2	124.7	121.2	124.7	124.7	124.7	124.7
72.5°	83.1	83.1	83.1	83.1	83.1	79.6	83.1	79.6
75°	34.6	34.6	34.6	34.6	34.6	34.6	34.6	31.2
77.5°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
80°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	3.5	3.5	3.5	3.5	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)