

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: P252527

Luminaire Tested: **LD6B60D010TE EU6B60709040 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252527
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 EU6B60709040 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4400.0 lumens
Efficiency: N/A
Efficacy: 70.4 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

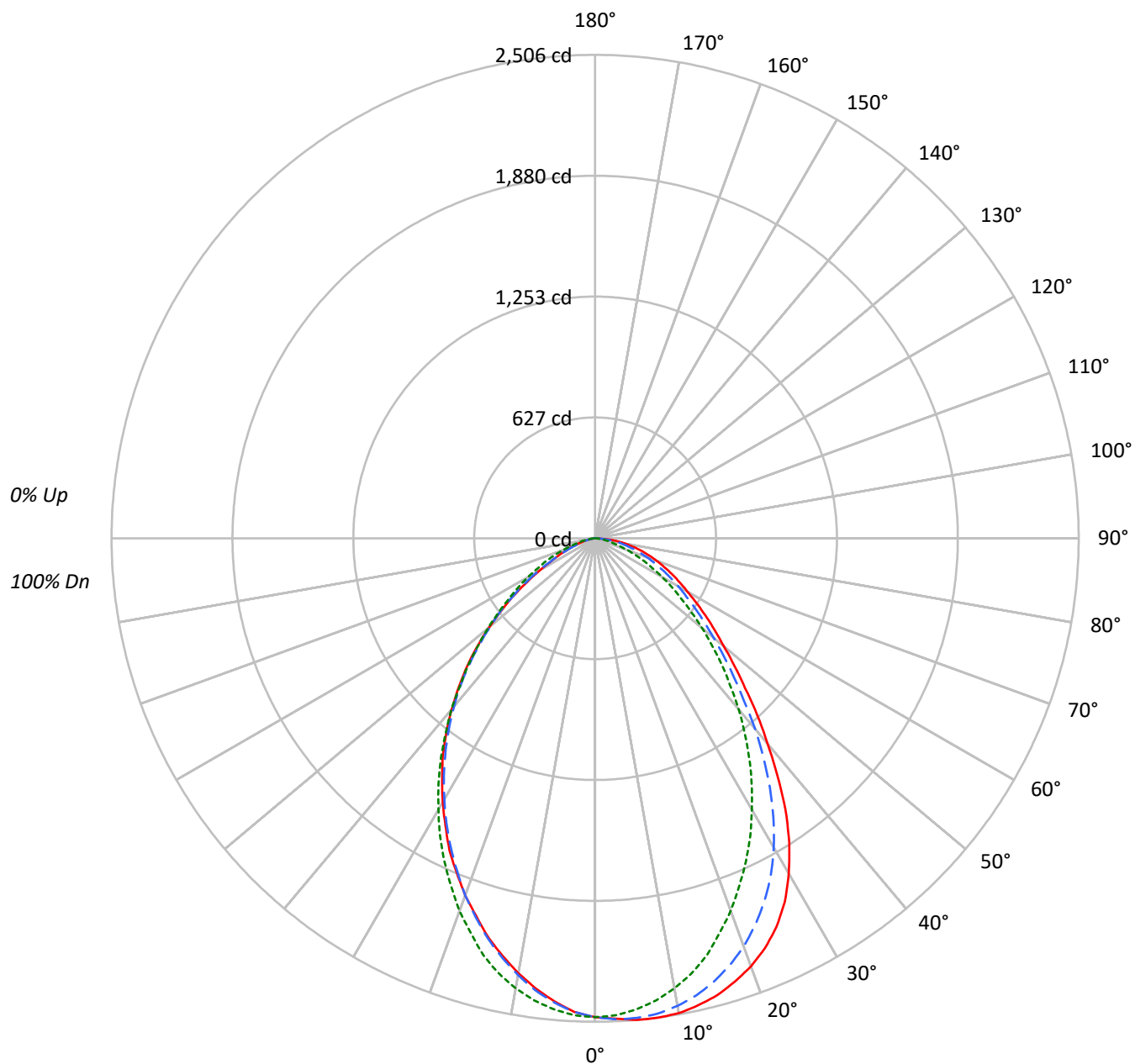
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	161947	161947	161947
5°	164144	160529	157824
10°	165585	156906	151653
15°	165559	151125	144601
20°	163960	142660	136675
25°	160073	133021	128551
30°	151156	122326	118951
35°	137012	110928	109558
40°	118329	98656	98358
45°	101472	85879	86516
50°	88180	73483	72428
55°	79211	61956	58032
60°	71973	52179	42733
65°	67584	43116	31399
70°	64455	33534	23024
75°	61707	24325	15654
80°	58272	16832	10369
85°	51650	10330	5165



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.2	5.3
10°-20°	635.9	14.5
20°-30°	882.9	20.1
30°-40°	914.5	20.8
40°-50°	751.5	17.1
50°-60°	516.5	11.7
60°-70°	296.9	6.7
70°-80°	136.5	3.1
80°-90°	33.2	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°	1751.0	39.8
0°-40°	2665.4	60.6
0°-60°	3933.4	89.4
0°-90°	4400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4400.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2482	2482	2482	2482	2482	
5°	2506	2496	2451	2417	2410	239
15°	2451	2379	2238	2148	2141	690
25°	2224	2075	1848	1769	1786	1018
35°	1720	1579	1393	1351	1376	1067
45°	1100	1017	931	920	938	857
55°	696	631	545	514	510	627
65°	438	383	279	196	203	436
75°	245	193	96	62	62	259
85°	69	48	14	7	7	77
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°	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3
2.5°	2492.6	2513.3	2499.5	2496.0	2502.9	2502.9	2502.9	2492.6	2499.5	2489.1	2496.0
5°	2506.4	2523.6	2509.8	2502.9	2509.8	2513.3	2502.9	2496.0	2506.4	2492.6	2496.0
7.5°	2506.4	2523.6	2509.8	2506.4	2509.8	2509.8	2506.4	2492.6	2499.5	2485.7	2485.7
10°	2499.5	2513.3	2499.5	2492.6	2496.0	2492.6	2492.6	2475.4	2478.8	2461.6	2461.6
12.5°	2478.8	2496.0	2478.8	2471.9	2471.9	2471.9	2461.6	2447.8	2451.2	2430.5	2427.1
15°	2451.2	2465.0	2447.8	2440.9	2440.9	2437.4	2430.5	2409.9	2409.9	2389.2	2378.8
17.5°	2409.9	2423.6	2409.9	2399.5	2396.1	2389.2	2382.3	2361.6	2354.7	2330.6	2320.2
20°	2361.6	2371.9	2358.1	2347.8	2340.9	2334.0	2320.2	2299.5	2292.6	2268.5	2251.3
22.5°	2299.5	2313.3	2292.6	2282.3	2275.4	2265.1	2251.3	2230.6	2220.2	2189.2	2168.5
25°	2223.7	2230.6	2213.3	2203.0	2189.2	2182.3	2172.0	2144.4	2134.0	2099.6	2075.4
27.5°	2127.2	2134.0	2113.4	2106.5	2089.2	2082.3	2068.5	2044.4	2030.6	1996.1	1972.0
30°	2006.5	2013.4	1999.6	1989.2	1975.5	1961.7	1951.3	1927.2	1906.5	1872.0	1851.3
32.5°	1872.0	1882.4	1868.6	1854.8	1830.7	1834.1	1816.9	1792.7	1775.5	1744.5	1720.3
35°	1720.3	1727.2	1710.0	1706.5	1692.8	1679.0	1661.7	1644.5	1634.1	1599.7	1579.0
37.5°	1551.4	1568.6	1551.4	1537.6	1530.7	1520.4	1510.0	1485.9	1479.0	1458.3	1430.7
40°	1389.4	1399.7	1389.4	1375.6	1365.2	1365.2	1351.4	1337.7	1320.4	1299.7	1289.4
42.5°	1244.6	1237.7	1234.2	1227.3	1213.5	1210.1	1206.7	1189.4	1179.1	1158.4	1141.1
45°	1099.8	1103.2	1096.3	1092.9	1082.5	1075.6	1068.7	1055.0	1051.5	1030.8	1017.0
47.5°	979.1	975.7	968.8	968.8	961.9	955.0	948.1	937.7	934.3	917.1	903.3
50°	868.8	872.2	868.8	865.3	855.0	851.6	844.7	837.8	830.9	813.6	799.8
52.5°	779.2	775.7	772.3	772.3	761.9	758.5	751.6	744.7	737.8	720.5	710.2
55°	696.4	696.4	693.0	689.5	679.2	675.7	672.3	665.4	655.0	641.2	630.9
57.5°	620.6	620.6	617.1	613.7	606.8	606.8	599.9	593.0	586.1	572.3	558.5
60°	551.6	555.1	551.6	548.2	541.3	541.3	537.8	527.5	524.0	506.8	496.5
62.5°	493.0	493.0	493.0	489.6	486.1	479.2	479.2	468.9	462.0	451.6	437.8
65°	437.8	437.8	437.8	434.4	427.5	424.1	420.6	413.7	406.8	396.5	382.7
67.5°	386.1	386.1	386.1	382.7	375.8	372.3	368.9	365.4	355.1	344.8	331.0
70°	337.9	337.9	334.4	331.0	327.5	324.1	320.6	313.7	306.8	293.0	282.7
72.5°	289.6	289.6	289.6	282.7	279.3	279.3	272.4	268.9	262.0	248.2	237.9
75°	244.8	241.3	241.3	237.9	234.4	231.0	227.5	224.1	213.7	206.9	193.1
77.5°	200.0	200.0	196.5	193.1	193.1	189.6	186.2	179.3	175.8	165.5	155.1
80°	155.1	155.1	155.1	151.7	148.2	148.2	141.4	137.9	127.6	120.7	120.7
82.5°	117.2	113.8	113.8	113.8	110.3	106.9	106.9	103.4	100.0	93.1	86.2
85°	69.0	65.5	65.5	65.5	62.1	62.1	58.6	58.6	55.2	48.3	48.3
87.5°	20.7	20.7	24.1	24.1	20.7	20.7	20.7	20.7	20.7	17.2	17.2
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°	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3
2.5°	2489.1	2499.5	2485.7	2482.3	2496.0	2489.1	2485.7	2478.8	2482.3	2475.4	2465.0
5°	2485.7	2499.5	2482.3	2471.9	2489.1	2478.8	2471.9	2465.0	2465.0	2451.2	2444.3
7.5°	2475.4	2482.3	2465.0	2454.7	2465.0	2454.7	2447.8	2437.4	2434.0	2416.7	2406.4
10°	2447.8	2454.7	2434.0	2420.2	2430.5	2416.7	2406.4	2396.1	2389.2	2368.5	2354.7
12.5°	2409.9	2413.3	2389.2	2371.9	2378.8	2368.5	2351.2	2337.5	2330.6	2309.9	2292.6
15°	2358.1	2361.6	2334.0	2309.9	2316.8	2303.0	2282.3	2268.5	2258.2	2237.5	2213.3
17.5°	2296.1	2292.6	2261.6	2237.5	2240.9	2223.7	2203.0	2182.3	2168.5	2144.4	2127.2
20°	2227.1	2216.8	2182.3	2154.7	2158.2	2137.5	2113.4	2092.7	2075.4	2054.8	2030.6
22.5°	2140.9	2127.2	2096.1	2061.6	2065.1	2047.9	2013.4	1996.1	1978.9	1951.3	1930.6
25°	2047.9	2027.2	1996.1	1961.7	1961.7	1941.0	1913.4	1892.7	1875.5	1847.9	1823.8
27.5°	1937.5	1927.2	1885.8	1858.2	1854.8	1834.1	1810.0	1785.8	1765.2	1741.0	1716.9
30°	1816.9	1799.6	1768.6	1737.6	1730.7	1713.4	1689.3	1661.7	1647.9	1623.8	1603.1
32.5°	1689.3	1672.1	1637.6	1606.6	1603.1	1589.3	1568.6	1541.1	1527.3	1510.0	1496.2
35°	1544.5	1537.6	1503.1	1479.0	1479.0	1465.2	1444.5	1420.4	1410.1	1392.8	1375.6
37.5°	1406.6	1396.3	1365.2	1344.6	1344.6	1327.3	1306.6	1296.3	1285.9	1272.2	1261.8
40°	1261.8	1254.9	1230.8	1210.1	1213.5	1199.8	1186.0	1172.2	1165.3	1158.4	1148.0
42.5°	1127.4	1120.5	1103.2	1086.0	1086.0	1075.6	1061.9	1051.5	1044.6	1034.3	1030.8
45°	1006.7	996.3	982.6	965.3	965.3	955.0	948.1	941.2	937.7	930.8	920.5
47.5°	889.5	882.6	868.8	851.6	851.6	851.6	837.8	827.4	827.4	820.5	817.1
50°	789.5	779.2	768.8	755.0	755.0	748.1	737.8	727.4	727.4	724.0	717.1
52.5°	696.4	689.5	675.7	661.9	661.9	655.0	644.7	641.2	637.8	627.5	624.0
55°	617.1	610.2	599.9	582.6	579.2	575.7	565.4	558.5	555.1	544.7	544.7
57.5°	544.7	537.8	520.6	510.2	506.8	499.9	489.6	482.7	479.2	472.3	465.4
60°	482.7	472.3	458.5	444.7	441.3	434.4	424.1	417.2	413.7	399.9	393.0
62.5°	424.1	413.7	399.9	386.1	382.7	375.8	362.0	355.1	348.2	334.4	327.5
65°	368.9	358.5	344.8	331.0	324.1	320.6	306.8	296.5	289.6	279.3	265.5
67.5°	317.2	306.8	293.0	275.8	275.8	265.5	255.1	244.8	234.4	224.1	213.7
70°	268.9	258.6	244.8	231.0	227.5	220.6	210.3	196.5	189.6	175.8	165.5
72.5°	224.1	213.7	200.0	186.2	182.7	175.8	165.5	151.7	141.4	131.0	120.7
75°	182.7	172.4	158.6	148.2	144.8	137.9	127.6	113.8	103.4	96.5	86.2
77.5°	144.8	134.5	124.1	113.8	110.3	103.4	93.1	86.2	75.8	69.0	58.6
80°	110.3	103.4	93.1	86.2	82.7	75.8	69.0	58.6	51.7	44.8	41.4
82.5°	79.3	72.4	65.5	55.2	55.2	48.3	44.8	37.9	31.0	27.6	24.1
85°	44.8	37.9	34.5	31.0	27.6	27.6	24.1	20.7	17.2	13.8	13.8
87.5°	13.8	13.8	10.3	10.3	10.3	10.3	6.9	6.9	6.9	6.9	6.9
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3
2.5°	2465.0	2468.5	2461.6	2468.5	2461.6	2465.0	2458.1	2465.0	2458.1	2465.0	2451.2
5°	2440.9	2440.9	2430.5	2437.4	2430.5	2434.0	2420.2	2423.6	2416.7	2423.6	2409.9
7.5°	2399.5	2403.0	2385.7	2392.6	2382.3	2382.3	2371.9	2375.4	2365.0	2368.5	2358.1
10°	2351.2	2347.8	2330.6	2337.5	2323.7	2323.7	2313.3	2313.3	2299.5	2303.0	2289.2
12.5°	2282.3	2278.8	2258.2	2265.1	2251.3	2251.3	2240.9	2240.9	2227.1	2234.0	2220.2
15°	2203.0	2199.6	2178.9	2182.3	2168.5	2168.5	2154.7	2158.2	2147.8	2154.7	2140.9
17.5°	2113.4	2109.9	2089.2	2092.7	2075.4	2078.9	2068.5	2065.1	2058.2	2061.6	2051.3
20°	2020.3	2013.4	1992.7	1996.1	1989.2	1978.9	1972.0	1975.5	1968.6	1975.5	1965.1
22.5°	1923.7	1910.0	1892.7	1892.7	1885.8	1885.8	1875.5	1882.4	1868.6	1878.9	1872.0
25°	1813.4	1803.1	1789.3	1796.2	1782.4	1782.4	1772.1	1775.5	1768.6	1775.5	1768.6
27.5°	1706.5	1699.7	1679.0	1685.9	1675.5	1679.0	1668.6	1672.1	1668.6	1675.5	1668.6
30°	1592.8	1589.3	1575.5	1575.5	1572.1	1568.6	1565.2	1565.2	1561.7	1572.1	1565.2
32.5°	1485.9	1475.6	1461.8	1472.1	1454.9	1465.2	1458.3	1465.2	1458.3	1465.2	1461.8
35°	1375.6	1372.1	1354.9	1358.3	1354.9	1354.9	1351.4	1351.4	1351.4	1361.8	1361.8
37.5°	1258.4	1254.9	1244.6	1248.0	1241.1	1237.7	1237.7	1244.6	1244.6	1251.5	1251.5
40°	1144.6	1148.0	1137.7	1137.7	1134.3	1134.3	1134.3	1141.1	1137.7	1144.6	1141.1
42.5°	1030.8	1030.8	1020.5	1023.9	1020.5	1023.9	1023.9	1030.8	1030.8	1034.3	1030.8
45°	923.9	923.9	920.5	923.9	917.1	920.5	917.1	923.9	920.5	923.9	923.9
47.5°	817.1	817.1	817.1	813.6	813.6	813.6	813.6	813.6	810.2	817.1	813.6
50°	717.1	720.5	717.1	717.1	713.6	717.1	713.6	713.6	706.8	710.2	710.2
52.5°	627.5	627.5	620.6	620.6	620.6	617.1	617.1	617.1	613.7	613.7	606.8
55°	541.3	541.3	534.4	534.4	530.9	527.5	524.0	524.0	513.7	513.7	503.3
57.5°	462.0	458.5	448.2	448.2	441.3	437.8	434.4	430.9	424.1	417.2	413.7
60°	389.6	382.7	375.8	372.3	365.4	358.5	351.7	344.8	337.9	334.4	331.0
62.5°	320.6	310.3	303.4	299.9	293.0	282.7	275.8	268.9	262.0	258.6	251.7
65°	258.6	248.2	237.9	234.4	227.5	220.6	210.3	203.4	196.5	193.1	193.1
67.5°	203.4	193.1	179.3	179.3	172.4	165.5	158.6	151.7	148.2	151.7	151.7
70°	151.7	144.8	134.5	131.0	124.1	117.2	113.8	113.8	113.8	117.2	113.8
72.5°	113.8	103.4	96.5	93.1	89.6	86.2	86.2	86.2	82.7	86.2	86.2
75°	79.3	72.4	65.5	65.5	62.1	62.1	62.1	62.1	62.1	62.1	62.1
77.5°	55.2	48.3	44.8	44.8	44.8	41.4	41.4	41.4	41.4	41.4	41.4
80°	34.5	34.5	31.0	31.0	27.6	27.6	27.6	27.6	27.6	27.6	27.6
82.5°	20.7	20.7	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
85°	10.3	10.3	10.3	10.3	10.3	6.9	6.9	6.9	6.9	6.9	6.9
87.5°	3.4	3.4	3.4	3.4	3.4	6.9	6.9	6.9	6.9	6.9	6.9
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: P252527

CATALOG NUMBER: LD6B60D010TE EU6B60709040 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3
2.5°	2451.2	2461.6	2447.8	2458.1	2454.7	2451.2	2444.3	2458.1
5°	2409.9	2413.3	2399.5	2413.3	2409.9	2403.0	2396.1	2409.9
7.5°	2351.2	2361.6	2344.3	2358.1	2354.7	2347.8	2340.9	2354.7
10°	2285.7	2296.1	2282.3	2292.6	2292.6	2285.7	2275.4	2289.2
12.5°	2213.3	2220.2	2206.4	2220.2	2216.8	2209.9	2206.4	2216.8
15°	2134.0	2144.4	2130.6	2140.9	2137.5	2134.0	2130.6	2140.9
17.5°	2047.9	2058.2	2047.9	2058.2	2058.2	2047.9	2044.4	2051.3
20°	1961.7	1968.6	1958.2	1968.6	1965.1	1965.1	1958.2	1968.6
22.5°	1865.1	1875.5	1868.6	1875.5	1872.0	1872.0	1868.6	1875.5
25°	1768.6	1778.9	1768.6	1778.9	1775.5	1775.5	1768.6	1785.8
27.5°	1672.1	1679.0	1668.6	1682.4	1679.0	1672.1	1675.5	1679.0
30°	1568.6	1575.5	1568.6	1579.0	1579.0	1579.0	1572.1	1579.0
32.5°	1465.2	1475.6	1465.2	1475.6	1472.1	1472.1	1468.7	1475.6
35°	1361.8	1365.2	1358.3	1368.7	1368.7	1372.1	1365.2	1375.6
37.5°	1254.9	1258.4	1254.9	1258.4	1265.3	1254.9	1261.8	1265.3
40°	1144.6	1151.5	1148.0	1151.5	1151.5	1154.9	1151.5	1154.9
42.5°	1034.3	1041.2	1034.3	1044.6	1041.2	1041.2	1044.6	1044.6
45°	920.5	930.8	923.9	930.8	934.3	930.8	930.8	937.7
47.5°	813.6	820.5	817.1	820.5	820.5	820.5	820.5	827.4
50°	706.8	710.2	710.2	713.6	713.6	717.1	710.2	713.6
52.5°	599.9	606.8	606.8	606.8	603.3	606.8	606.8	606.8
55°	503.3	506.8	499.9	506.8	506.8	503.3	503.3	510.2
57.5°	410.3	410.3	410.3	410.3	410.3	406.8	410.3	410.3
60°	324.1	327.5	324.1	324.1	324.1	324.1	320.6	327.5
62.5°	251.7	251.7	248.2	251.7	251.7	251.7	255.1	255.1
65°	196.5	200.0	196.5	200.0	200.0	200.0	200.0	203.4
67.5°	155.1	155.1	155.1	155.1	155.1	155.1	155.1	155.1
70°	117.2	117.2	117.2	120.7	117.2	117.2	117.2	120.7
72.5°	86.2	86.2	86.2	86.2	86.2	86.2	89.6	89.6
75°	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
77.5°	41.4	41.4	41.4	44.8	41.4	44.8	41.4	41.4
80°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
82.5°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
85°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
87.5°	6.9	6.9	6.9	6.9	3.4	3.4	3.4	3.4
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)