

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: P252542

Luminaire Tested: **LD6B70D010TE EU6B60709727 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252542  
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: LD6B70D010TE EU6B60709727 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

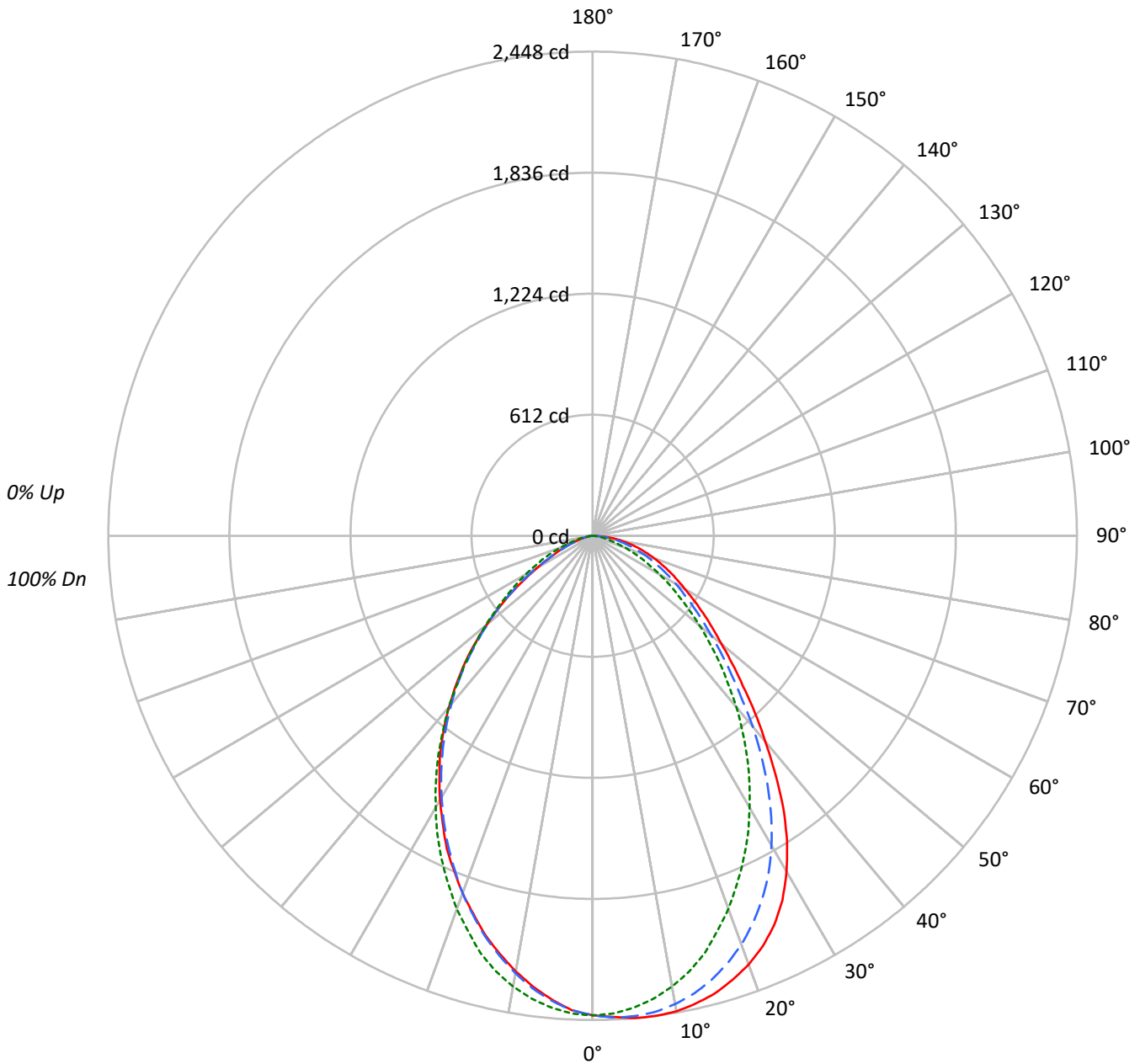
Lumens per Lamp: N/A  
Luminaire Lumens: 4298.0 lumens  
Efficiency: N/A  
Efficacy: 54.1 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 79.45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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				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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88			88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77			77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67			67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47			47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43			43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39			39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35			35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33			33

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	158189	158189	158189
5°	160339	156809	154163
10°	161742	153269	148135
15°	161723	147620	141251
20°	160156	139348	133502
25°	156359	129940	125571
30°	147653	119494	116194
35°	133842	108356	107018
40°	115587	96365	96084
45°	99119	83896	84514
50°	86130	71778	70753
55°	77380	60523	56690
60°	70303	50966	41741
65°	66025	42113	30674
70°	62948	32771	22490
75°	60270	23770	15275
80°	56919	16456	10106
85°	50452	10105	5015



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.8	5.3
10°-20°	621.2	14.5
20°-30°	862.4	20.1
30°-40°	893.3	20.8
40°-50°	734.0	17.1
50°-60°	504.5	11.7
60°-70°	290.0	6.7
70°-80°	133.3	3.1
80°-90°	32.5	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°	1710.4	39.8
0°-40°	2603.7	60.6
0°-60°	3842.2	89.4
0°-90°	4298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4298.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2425	2425	2425	2425	2425	
5°	2448	2438	2394	2361	2354	233
15°	2394	2324	2186	2098	2091	674
25°	2172	2027	1805	1728	1744	994
35°	1680	1542	1360	1320	1344	1042
45°	1074	994	909	899	916	837
55°	680	616	532	502	498	612
65°	428	374	273	192	199	426
75°	239	189	94	61	61	253
85°	67	47	14	7	7	76
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°	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7
2.5°	2434.8	2455.0	2441.5	2438.2	2444.9	2444.9	2444.9	2434.8	2441.5	2431.4	2438.2
5°	2448.3	2465.1	2451.6	2444.9	2451.6	2455.0	2444.9	2438.2	2448.3	2434.8	2438.2
7.5°	2448.3	2465.1	2451.6	2448.3	2451.6	2451.6	2448.3	2434.8	2441.5	2428.1	2428.1
10°	2441.5	2455.0	2441.5	2434.8	2438.2	2434.8	2434.8	2418.0	2421.3	2404.5	2404.5
12.5°	2421.3	2438.2	2421.3	2414.6	2414.6	2414.6	2404.5	2391.0	2394.4	2374.2	2370.8
15°	2394.4	2407.9	2391.0	2384.3	2384.3	2380.9	2374.2	2354.0	2354.0	2333.8	2323.7
17.5°	2354.0	2367.5	2354.0	2343.9	2340.5	2333.8	2327.0	2306.8	2300.1	2276.5	2266.4
20°	2306.8	2316.9	2303.5	2293.4	2286.6	2279.9	2266.4	2246.2	2239.5	2215.9	2199.1
22.5°	2246.2	2259.7	2239.5	2229.4	2222.6	2212.5	2199.1	2178.9	2168.8	2138.5	2118.3
25°	2172.1	2178.9	2162.0	2151.9	2138.5	2131.7	2121.6	2094.7	2084.6	2050.9	2027.3
27.5°	2077.8	2084.6	2064.4	2057.6	2040.8	2034.1	2020.6	1997.0	1983.5	1949.9	1926.3
30°	1960.0	1966.7	1953.2	1943.1	1929.7	1916.2	1906.1	1882.5	1862.3	1828.6	1808.4
32.5°	1828.6	1838.7	1825.3	1811.8	1788.2	1791.6	1774.8	1751.2	1734.3	1704.0	1680.5
35°	1680.5	1687.2	1670.4	1667.0	1653.5	1640.0	1623.2	1606.4	1596.3	1562.6	1542.4
37.5°	1515.4	1532.3	1515.4	1502.0	1495.2	1485.1	1475.0	1451.5	1444.7	1424.5	1397.6
40°	1357.2	1367.3	1357.2	1343.7	1333.6	1333.6	1320.1	1306.6	1289.8	1269.6	1259.5
42.5°	1215.7	1209.0	1205.6	1198.9	1185.4	1182.0	1178.7	1161.8	1151.7	1131.5	1114.7
45°	1074.3	1077.6	1070.9	1067.5	1057.4	1050.7	1044.0	1030.5	1027.1	1006.9	993.5
47.5°	956.4	953.0	946.3	946.3	939.6	932.8	926.1	916.0	912.6	895.8	882.3
50°	848.6	852.0	848.6	845.3	835.2	831.8	825.1	818.3	811.6	794.8	781.3
52.5°	761.1	757.7	754.4	754.4	744.3	740.9	734.1	727.4	720.7	703.8	693.7
55°	680.3	680.3	676.9	673.5	663.4	660.1	656.7	650.0	639.9	626.4	616.3
57.5°	606.2	606.2	602.8	599.4	592.7	592.7	586.0	579.2	572.5	559.0	545.6
60°	538.8	542.2	538.8	535.5	528.7	528.7	525.4	515.3	511.9	495.0	484.9
62.5°	481.6	481.6	481.6	478.2	474.8	468.1	468.1	458.0	451.3	441.2	427.7
65°	427.7	427.7	427.7	424.3	417.6	414.2	410.9	404.1	397.4	387.3	373.8
67.5°	377.2	377.2	377.2	373.8	367.1	363.7	360.3	357.0	346.9	336.8	323.3
70°	330.0	330.0	326.7	323.3	319.9	316.6	313.2	306.5	299.7	286.3	276.1
72.5°	282.9	282.9	282.9	276.1	272.8	272.8	266.0	262.7	255.9	242.5	232.4
75°	239.1	235.7	235.7	232.4	229.0	225.6	222.3	218.9	208.8	202.1	188.6
77.5°	195.3	195.3	192.0	188.6	188.6	185.2	181.9	175.1	171.8	161.6	151.5
80°	151.5	151.5	151.5	151.5	148.2	144.8	144.8	138.1	134.7	124.6	117.9
82.5°	114.5	111.1	111.1	111.1	107.8	104.4	104.4	101.0	97.7	90.9	84.2
85°	67.4	64.0	64.0	64.0	60.6	60.6	57.3	57.3	53.9	47.1	47.1
87.5°	20.2	20.2	23.6	23.6	20.2	20.2	20.2	20.2	20.2	16.8	16.8
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°	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7
2.5°	2431.4	2441.5	2428.1	2424.7	2438.2	2431.4	2428.1	2421.3	2424.7	2418.0	2407.9
5°	2428.1	2441.5	2424.7	2414.6	2431.4	2421.3	2414.6	2407.9	2407.9	2394.4	2387.7
7.5°	2418.0	2424.7	2407.9	2397.8	2407.9	2397.8	2391.0	2380.9	2377.6	2360.7	2350.6
10°	2391.0	2397.8	2377.6	2364.1	2374.2	2360.7	2350.6	2340.5	2333.8	2313.6	2300.1
12.5°	2354.0	2357.4	2333.8	2316.9	2323.7	2313.6	2296.7	2283.3	2276.5	2256.3	2239.5
15°	2303.5	2306.8	2279.9	2256.3	2263.1	2249.6	2229.4	2215.9	2205.8	2185.6	2162.0
17.5°	2242.9	2239.5	2209.2	2185.6	2189.0	2172.1	2151.9	2131.7	2118.3	2094.7	2077.8
20°	2175.5	2165.4	2131.7	2104.8	2108.1	2087.9	2064.4	2044.2	2027.3	2007.1	1983.5
22.5°	2091.3	2077.8	2047.5	2013.9	2017.2	2000.4	1966.7	1949.9	1933.0	1906.1	1885.9
25°	2000.4	1980.2	1949.9	1916.2	1916.2	1896.0	1869.0	1848.8	1832.0	1805.1	1781.5
27.5°	1892.6	1882.5	1842.1	1815.2	1811.8	1791.6	1768.0	1744.4	1724.2	1700.7	1677.1
30°	1774.8	1757.9	1727.6	1697.3	1690.6	1673.7	1650.1	1623.2	1609.7	1586.2	1566.0
32.5°	1650.1	1633.3	1599.6	1569.3	1566.0	1552.5	1532.3	1505.3	1491.9	1475.0	1461.6
35°	1508.7	1502.0	1468.3	1444.7	1444.7	1431.3	1411.0	1387.5	1377.4	1360.5	1343.7
37.5°	1374.0	1363.9	1333.6	1313.4	1313.4	1296.5	1276.3	1266.2	1256.1	1242.7	1232.6
40°	1232.6	1225.8	1202.3	1182.0	1185.4	1171.9	1158.5	1145.0	1138.3	1131.5	1121.4
42.5°	1101.2	1094.5	1077.6	1060.8	1060.8	1050.7	1037.2	1027.1	1020.4	1010.3	1006.9
45°	983.4	973.3	959.8	942.9	942.9	932.8	926.1	919.4	916.0	909.3	899.2
47.5°	868.9	862.1	848.6	831.8	831.8	831.8	818.3	808.2	808.2	801.5	798.1
50°	771.2	761.1	751.0	737.5	737.5	730.8	720.7	710.6	710.6	707.2	700.5
52.5°	680.3	673.5	660.1	646.6	646.6	639.9	629.8	626.4	623.0	612.9	609.5
55°	602.8	596.1	586.0	569.1	565.8	562.4	552.3	545.6	542.2	532.1	532.1
57.5°	532.1	525.4	508.5	498.4	495.0	488.3	478.2	471.5	468.1	461.4	454.6
60°	471.5	461.4	447.9	434.4	431.1	424.3	414.2	407.5	404.1	390.6	383.9
62.5°	414.2	404.1	390.6	377.2	373.8	367.1	353.6	346.9	340.1	326.7	319.9
65°	360.3	350.2	336.8	323.3	316.6	313.2	299.7	289.6	282.9	272.8	259.3
67.5°	309.8	299.7	286.3	269.4	269.4	259.3	249.2	239.1	229.0	218.9	208.8
70°	262.7	252.6	239.1	225.6	222.3	215.5	205.4	192.0	185.2	171.8	161.6
72.5°	218.9	208.8	195.3	181.9	178.5	171.8	161.6	148.2	138.1	128.0	117.9
75°	178.5	168.4	154.9	144.8	141.4	134.7	124.6	111.1	101.0	94.3	84.2
77.5°	141.4	131.3	121.2	111.1	107.8	101.0	90.9	84.2	74.1	67.4	57.3
80°	107.8	101.0	90.9	84.2	80.8	74.1	67.4	57.3	50.5	43.8	40.4
82.5°	77.5	70.7	64.0	53.9	53.9	47.1	43.8	37.0	30.3	26.9	23.6
85°	43.8	37.0	33.7	30.3	26.9	26.9	23.6	20.2	16.8	13.5	13.5
87.5°	13.5	13.5	10.1	10.1	10.1	10.1	6.7	6.7	6.7	6.7	6.7
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°	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7
2.5°	2407.9	2411.2	2404.5	2411.2	2404.5	2407.9	2401.1	2407.9	2401.1	2407.9	2394.4
5°	2384.3	2384.3	2374.2	2380.9	2374.2	2377.6	2364.1	2367.5	2360.7	2367.5	2354.0
7.5°	2343.9	2347.3	2330.4	2337.1	2327.0	2327.0	2316.9	2320.3	2310.2	2313.6	2303.5
10°	2296.7	2293.4	2276.5	2283.3	2269.8	2269.8	2259.7	2259.7	2246.2	2249.6	2236.1
12.5°	2229.4	2226.0	2205.8	2212.5	2199.1	2199.1	2189.0	2189.0	2175.5	2182.2	2168.8
15°	2151.9	2148.6	2128.4	2131.7	2118.3	2118.3	2104.8	2108.1	2098.0	2104.8	2091.3
17.5°	2064.4	2061.0	2040.8	2044.2	2027.3	2030.7	2020.6	2017.2	2010.5	2013.9	2003.8
20°	1973.4	1966.7	1946.5	1949.9	1943.1	1933.0	1926.3	1929.7	1922.9	1929.7	1919.6
22.5°	1879.1	1865.7	1848.8	1848.8	1842.1	1842.1	1832.0	1838.7	1825.3	1835.4	1828.6
25°	1771.4	1761.3	1747.8	1754.5	1741.1	1741.1	1731.0	1734.3	1727.6	1734.3	1727.6
27.5°	1667.0	1660.3	1640.0	1646.8	1636.7	1640.0	1629.9	1633.3	1629.9	1636.7	1629.9
30°	1555.9	1552.5	1539.0	1539.0	1535.6	1532.3	1528.9	1528.9	1525.5	1535.6	1528.9
32.5°	1451.5	1441.4	1427.9	1438.0	1421.1	1431.3	1424.5	1431.3	1424.5	1431.3	1427.9
35°	1343.7	1340.3	1323.5	1326.9	1323.5	1323.5	1320.1	1320.1	1320.1	1330.2	1330.2
37.5°	1229.2	1225.8	1215.7	1219.1	1212.4	1209.0	1209.0	1215.7	1215.7	1222.5	1222.5
40°	1118.1	1121.4	1111.3	1111.3	1108.0	1108.0	1108.0	1114.7	1111.3	1118.1	1114.7
42.5°	1006.9	1006.9	996.8	1000.2	996.8	1000.2	1000.2	1006.9	1006.9	1010.3	1006.9
45°	902.5	902.5	899.2	902.5	895.8	899.2	895.8	902.5	899.2	902.5	902.5
47.5°	798.1	798.1	798.1	794.8	794.8	794.8	794.8	794.8	791.4	798.1	794.8
50°	700.5	703.8	700.5	700.5	697.1	700.5	697.1	697.1	690.4	693.7	693.7
52.5°	612.9	612.9	606.2	606.2	606.2	602.8	602.8	602.8	599.4	599.4	592.7
55°	528.7	528.7	522.0	522.0	518.6	515.3	511.9	511.9	501.8	501.8	491.7
57.5°	451.3	447.9	437.8	437.8	431.1	427.7	424.3	421.0	414.2	407.5	404.1
60°	380.5	373.8	367.1	363.7	357.0	350.2	343.5	336.8	330.0	326.7	323.3
62.5°	313.2	303.1	296.4	293.0	286.3	276.1	269.4	262.7	255.9	252.6	245.8
65°	252.6	242.5	232.4	229.0	222.3	215.5	205.4	198.7	192.0	188.6	188.6
67.5°	198.7	188.6	175.1	175.1	168.4	161.6	154.9	148.2	144.8	148.2	148.2
70°	148.2	141.4	131.3	128.0	121.2	114.5	111.1	111.1	111.1	114.5	111.1
72.5°	111.1	101.0	94.3	90.9	87.6	84.2	84.2	84.2	80.8	84.2	84.2
75°	77.5	70.7	64.0	64.0	60.6	60.6	60.6	60.6	60.6	60.6	60.6
77.5°	53.9	47.1	43.8	43.8	43.8	40.4	40.4	40.4	40.4	40.4	40.4
80°	33.7	33.7	30.3	30.3	26.9	26.9	26.9	26.9	26.9	26.9	26.9
82.5°	20.2	20.2	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
85°	10.1	10.1	10.1	10.1	10.1	6.7	6.7	6.7	6.7	6.7	6.7
87.5°	3.4	3.4	3.4	3.4	3.4	6.7	6.7	6.7	6.7	6.7	6.7
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: P252542

CATALOG NUMBER: LD6B70D010TE EU6B60709727 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7	2424.7
2.5°	2394.4	2404.5	2391.0	2401.1	2397.8	2394.4	2387.7	2401.1
5°	2354.0	2357.4	2343.9	2357.4	2354.0	2347.3	2340.5	2354.0
7.5°	2296.7	2306.8	2290.0	2303.5	2300.1	2293.4	2286.6	2300.1
10°	2232.8	2242.9	2229.4	2239.5	2239.5	2232.8	2222.6	2236.1
12.5°	2162.0	2168.8	2155.3	2168.8	2165.4	2158.7	2155.3	2165.4
15°	2084.6	2094.7	2081.2	2091.3	2087.9	2084.6	2081.2	2091.3
17.5°	2000.4	2010.5	2000.4	2010.5	2010.5	2000.4	1997.0	2003.8
20°	1916.2	1922.9	1912.8	1922.9	1919.6	1919.6	1912.8	1922.9
22.5°	1821.9	1832.0	1825.3	1832.0	1828.6	1828.6	1825.3	1832.0
25°	1727.6	1737.7	1727.6	1737.7	1734.3	1734.3	1727.6	1744.4
27.5°	1633.3	1640.0	1629.9	1643.4	1640.0	1633.3	1636.7	1640.0
30°	1532.3	1539.0	1532.3	1542.4	1542.4	1542.4	1535.6	1542.4
32.5°	1431.3	1441.4	1431.3	1441.4	1438.0	1438.0	1434.6	1441.4
35°	1330.2	1333.6	1326.9	1337.0	1337.0	1340.3	1333.6	1343.7
37.5°	1225.8	1229.2	1225.8	1229.2	1235.9	1225.8	1232.6	1235.9
40°	1118.1	1124.8	1121.4	1124.8	1124.8	1128.2	1124.8	1128.2
42.5°	1010.3	1017.0	1010.3	1020.4	1017.0	1017.0	1020.4	1020.4
45°	899.2	909.3	902.5	909.3	912.6	909.3	909.3	916.0
47.5°	794.8	801.5	798.1	801.5	801.5	801.5	801.5	808.2
50°	690.4	693.7	693.7	697.1	697.1	700.5	693.7	697.1
52.5°	586.0	592.7	592.7	592.7	589.3	592.7	592.7	592.7
55°	491.7	495.0	488.3	495.0	495.0	491.7	491.7	498.4
57.5°	400.8	400.8	400.8	400.8	400.8	397.4	400.8	400.8
60°	316.6	319.9	316.6	316.6	316.6	316.6	313.2	319.9
62.5°	245.8	245.8	242.5	245.8	245.8	245.8	249.2	249.2
65°	192.0	195.3	192.0	195.3	195.3	195.3	195.3	198.7
67.5°	151.5	151.5	151.5	151.5	151.5	151.5	151.5	151.5
70°	114.5	114.5	114.5	117.9	114.5	114.5	114.5	117.9
72.5°	84.2	84.2	84.2	84.2	84.2	84.2	87.6	87.6
75°	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
77.5°	40.4	40.4	40.4	43.8	40.4	43.8	40.4	40.4
80°	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9
82.5°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
85°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
87.5°	6.7	6.7	6.7	6.7	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)