

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: P252432

Luminaire Tested: **LD6B70D010TE EU6B60709024 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252432
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: LD6B70D010TE EU6B60709024 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4631.0 lumens
Efficiency: N/A
Efficacy: 58.3 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

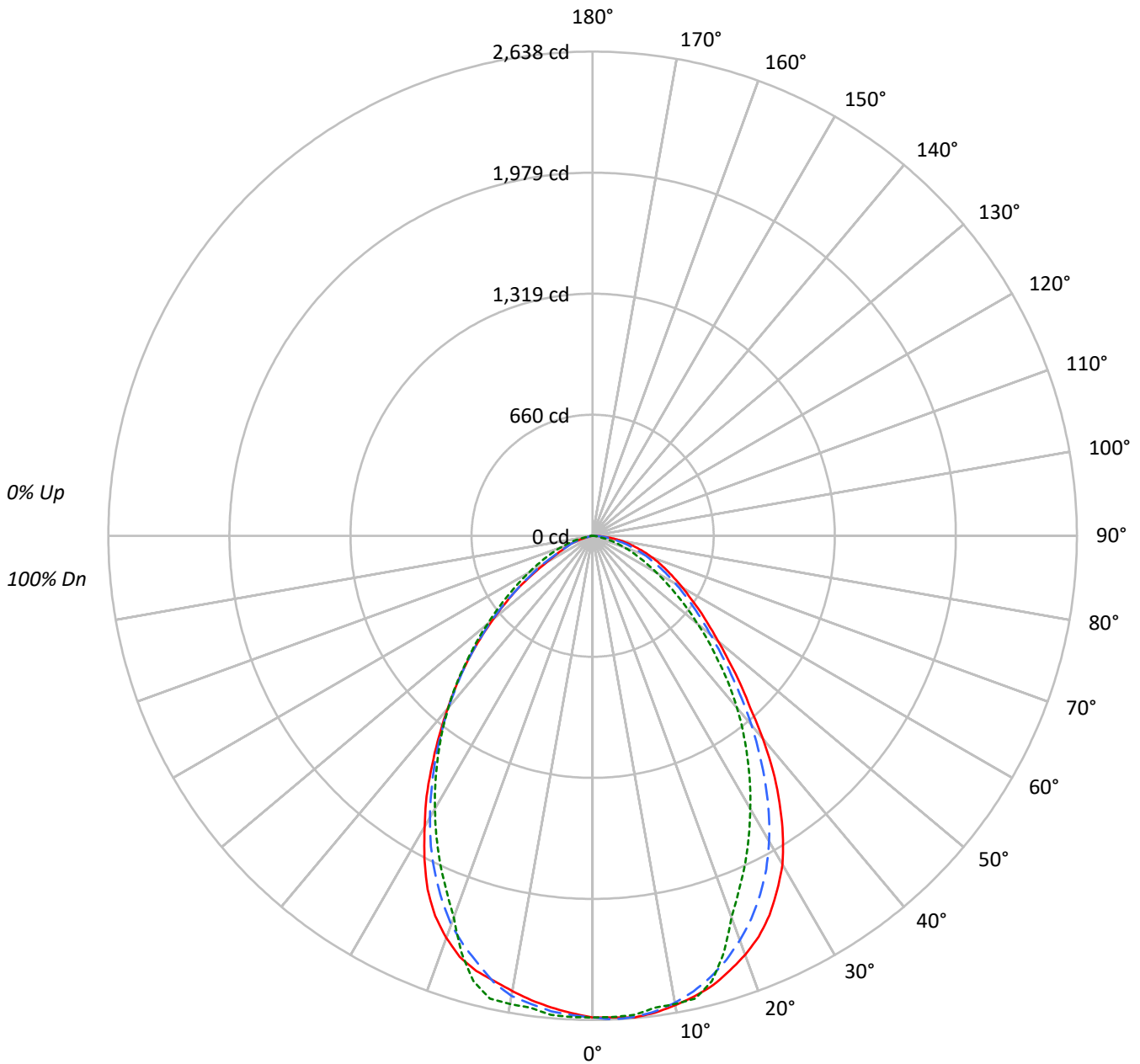
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252432

CATALOG NUMBER: LD6B70D010TE EU6B60709024 6LBLWW1LI

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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68				68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54				54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48				48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44				44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40				40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	171191	171191	171191
5°	172513	171623	168944
10°	172024	171573	166830
15°	171246	169632	165721
20°	168688	153546	161829
25°	164112	141544	153069
30°	155827	129385	137860
35°	141400	116973	121322
40°	122766	104192	104481
45°	104701	89607	88666
50°	90616	75747	71596
55°	81008	63185	55427
60°	73813	52467	37357
65°	68912	43132	27880
70°	65656	35098	23405
75°	61858	24905	7739
80°	58911	12812	2555
85°	48431	7635	0



TEST NUMBER: P252432

CATALOG NUMBER: LD6B70D010TE EU6B60709024 6LBLWW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.8	5.4
10°-20°	693.0	15.0
20°-30°	956.6	20.7
30°-40°	973.5	21.0
40°-50°	782.3	16.9
50°-60°	520.2	11.2
60°-70°	296.4	6.4
70°-80°	133.1	2.9
80°-90°	28.0	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°	1897.4	41.0
0°-40°	2870.9	62.0
0°-60°	4173.4	90.1
0°-90°	4631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4631.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2624	2624	2624	2624	2624	
5°	2634	2631	2621	2600	2580	250
15°	2535	2488	2512	2413	2454	713
25°	2280	2157	1966	2031	2126	1045
35°	1775	1639	1469	1496	1523	1103
45°	1135	1067	971	961	961	880
55°	712	664	556	494	487	640
65°	446	399	279	181	181	445
75°	245	204	99	41	31	262
85°	65	44	10	3	0	77
90°	0	0	0	0	0	



TEST NUMBER: P252432

CATALOG NUMBER: LD6B70D010TE EU6B60709024 6LBLWW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0
2.5°	2627.4	2641.0	2637.6	2634.2	2637.6	2634.2	2627.4	2627.4	2620.6	2620.6	2637.6
5°	2634.2	2641.0	2637.6	2634.2	2634.2	2637.6	2624.0	2624.0	2617.1	2613.7	2630.8
7.5°	2620.6	2630.8	2624.0	2624.0	2620.6	2624.0	2610.3	2610.3	2600.1	2596.7	2613.7
10°	2596.7	2610.3	2603.5	2603.5	2603.5	2596.7	2589.9	2586.5	2576.3	2572.8	2583.1
12.5°	2569.4	2579.7	2576.3	2569.4	2569.4	2569.4	2555.8	2552.4	2538.8	2532.0	2542.2
15°	2535.4	2542.2	2538.8	2535.4	2528.5	2528.5	2514.9	2508.1	2494.5	2480.8	2487.7
17.5°	2484.2	2494.5	2487.7	2484.2	2474.0	2474.0	2460.4	2453.6	2433.1	2419.5	2422.9
20°	2429.7	2433.1	2429.7	2422.9	2412.7	2409.3	2395.6	2382.0	2365.0	2347.9	2344.5
22.5°	2365.0	2368.4	2358.2	2351.3	2341.1	2337.7	2320.7	2310.5	2283.2	2262.7	2259.3
25°	2279.8	2283.2	2283.2	2266.2	2259.3	2252.5	2235.5	2218.4	2194.6	2167.3	2157.1
27.5°	2177.5	2187.8	2181.0	2163.9	2150.3	2146.9	2129.8	2116.2	2085.5	2061.7	2048.1
30°	2068.5	2065.1	2061.7	2051.5	2031.0	2027.6	2010.6	1993.5	1969.7	1939.0	1922.0
32.5°	1928.8	1928.8	1925.4	1915.2	1894.7	1887.9	1874.3	1853.8	1826.6	1802.7	1785.7
35°	1775.4	1778.8	1775.4	1755.0	1741.4	1734.5	1727.7	1703.9	1680.0	1652.8	1639.1
37.5°	1615.3	1605.0	1608.5	1591.4	1574.4	1581.2	1560.7	1550.5	1523.3	1502.8	1489.2
40°	1441.5	1448.3	1434.7	1427.8	1417.6	1407.4	1407.4	1390.4	1376.7	1352.9	1346.1
42.5°	1271.1	1281.3	1277.9	1271.1	1257.5	1260.9	1243.8	1237.0	1220.0	1209.7	1199.5
45°	1134.8	1134.8	1134.8	1128.0	1124.6	1117.7	1107.5	1097.3	1087.1	1073.4	1066.6
47.5°	1001.9	1001.9	1005.3	998.5	991.7	988.2	981.4	981.4	964.4	950.8	943.9
50°	892.8	892.8	892.8	886.0	879.2	879.2	872.4	865.6	855.3	845.1	838.3
52.5°	794.0	794.0	794.0	787.2	783.8	780.4	777.0	773.6	759.9	753.1	746.3
55°	712.2	708.8	708.8	705.4	698.6	698.6	695.2	688.4	678.1	667.9	664.5
57.5°	630.4	633.8	630.4	630.4	623.6	623.6	616.8	613.4	603.2	596.4	589.5
60°	565.7	565.7	565.7	562.3	555.5	558.9	552.1	548.6	538.4	528.2	521.4
62.5°	500.9	504.3	504.3	500.9	494.1	494.1	490.7	487.3	477.1	466.9	456.6
65°	446.4	446.4	446.4	443.0	439.6	439.6	436.2	432.8	422.6	408.9	398.7
67.5°	395.3	391.9	391.9	391.9	388.5	385.1	381.7	378.3	368.0	357.8	344.2
70°	344.2	344.2	344.2	340.8	334.0	337.4	334.0	330.6	320.3	310.1	299.9
72.5°	296.5	296.5	293.1	289.7	289.7	286.3	286.3	282.8	272.6	259.0	248.8
75°	245.4	245.4	245.4	245.4	238.5	241.9	235.1	231.7	224.9	214.7	204.5
77.5°	201.1	201.1	201.1	197.6	194.2	194.2	190.8	187.4	177.2	170.4	156.8
80°	156.8	156.8	156.8	156.8	153.3	149.9	146.5	143.1	136.3	126.1	115.9
82.5°	115.9	115.9	112.5	112.5	112.5	109.0	105.6	102.2	95.4	88.6	81.8
85°	64.7	68.2	68.2	61.3	64.7	61.3	61.3	54.5	54.5	47.7	44.3
87.5°	23.9	20.4	20.4	20.4	20.4	20.4	20.4	17.0	17.0	17.0	13.6
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: P252432

CATALOG NUMBER: LD6B70D010TE EU6B60709024 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0
2.5°	2624.0	2620.6	2634.2	2634.2	2613.7	2624.0	2627.4	2620.6	2620.6	2624.0	2613.7
5°	2617.1	2610.3	2624.0	2627.4	2606.9	2617.1	2620.6	2613.7	2617.1	2620.6	2606.9
7.5°	2593.3	2593.3	2603.5	2606.9	2586.5	2596.7	2596.7	2589.9	2593.3	2593.3	2583.1
10°	2569.4	2559.2	2569.4	2569.4	2552.4	2555.8	2562.6	2559.2	2572.8	2589.9	2589.9
12.5°	2525.1	2514.9	2532.0	2532.0	2521.7	2535.4	2552.4	2562.6	2576.3	2583.1	2562.6
15°	2470.6	2474.0	2504.7	2528.5	2518.3	2538.8	2555.8	2549.0	2532.0	2511.5	2480.8
17.5°	2399.1	2388.8	2416.1	2429.7	2416.1	2422.9	2436.5	2422.9	2395.6	2378.6	2337.7
20°	2317.3	2290.0	2290.0	2283.2	2259.3	2259.3	2255.9	2232.1	2221.8	2211.6	2194.6
22.5°	2225.3	2194.6	2184.4	2163.9	2143.5	2140.1	2129.8	2106.0	2092.4	2085.5	2065.1
25°	2119.6	2092.4	2075.3	2054.9	2024.2	2017.4	2007.2	1983.3	1976.5	1966.3	1949.2
27.5°	2010.6	1976.5	1952.6	1932.2	1904.9	1901.5	1881.1	1864.0	1850.4	1843.6	1830.0
30°	1884.5	1847.0	1830.0	1802.7	1782.3	1775.4	1758.4	1734.5	1724.3	1717.5	1707.3
32.5°	1744.8	1714.1	1697.1	1673.2	1645.9	1649.3	1628.9	1608.5	1601.6	1594.8	1584.6
35°	1608.5	1577.8	1557.3	1536.9	1519.9	1513.0	1499.4	1482.4	1472.1	1468.7	1461.9
37.5°	1458.5	1434.7	1417.6	1397.2	1383.5	1376.7	1369.9	1352.9	1346.1	1346.1	1332.4
40°	1312.0	1291.5	1277.9	1267.7	1250.6	1247.2	1240.4	1230.2	1226.8	1223.4	1213.2
42.5°	1179.1	1151.8	1141.6	1134.8	1124.6	1117.7	1114.3	1107.5	1104.1	1100.7	1090.5
45°	1053.0	1029.1	1018.9	1012.1	1001.9	998.5	995.1	984.8	978.0	971.2	967.8
47.5°	930.3	913.3	909.9	892.8	886.0	879.2	872.4	865.6	862.2	858.8	845.1
50°	824.7	814.5	797.4	787.2	780.4	777.0	763.3	753.1	749.7	746.3	736.1
52.5°	729.3	715.6	705.4	688.4	685.0	678.1	671.3	657.7	650.9	647.5	637.2
55°	644.1	633.8	620.2	606.6	596.4	592.9	582.7	569.1	562.3	555.5	548.6
57.5°	572.5	555.5	541.8	528.2	521.4	511.2	500.9	494.1	483.9	473.7	463.5
60°	504.3	490.7	473.7	460.0	453.2	446.4	432.8	422.6	412.3	402.1	391.9
62.5°	439.6	426.0	408.9	395.3	388.5	381.7	368.0	357.8	347.6	337.4	323.7
65°	381.7	368.0	354.4	340.8	334.0	327.1	313.5	299.9	289.7	279.4	265.8
67.5°	334.0	316.9	303.3	289.7	282.8	276.0	262.4	252.2	238.5	228.3	214.7
70°	282.8	269.2	259.0	245.4	238.5	231.7	218.1	204.5	194.2	184.0	170.4
72.5°	238.5	221.5	211.3	197.6	190.8	187.4	173.8	163.6	153.3	139.7	129.5
75°	190.8	177.2	163.6	153.3	146.5	143.1	129.5	119.3	109.0	98.8	88.6
77.5°	146.5	136.3	122.7	112.5	105.6	102.2	88.6	78.4	68.2	61.3	51.1
80°	109.0	95.4	88.6	78.4	75.0	68.2	61.3	51.1	44.3	34.1	27.3
82.5°	75.0	64.7	57.9	51.1	47.7	44.3	37.5	30.7	23.9	20.4	17.0
85°	40.9	34.1	30.7	27.3	23.9	23.9	20.4	17.0	13.6	10.2	6.8
87.5°	13.6	10.2	10.2	10.2	10.2	6.8	6.8	6.8	3.4	3.4	3.4
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: P252432

CATALOG NUMBER: LD6B70D010TE EU6B60709024 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0
2.5°	2620.6	2620.6	2620.6	2617.1	2617.1	2617.1	2613.7	2627.4	2613.7	2610.3	2620.6
5°	2617.1	2610.3	2610.3	2610.3	2610.3	2606.9	2603.5	2610.3	2600.1	2596.7	2596.7
7.5°	2596.7	2593.3	2593.3	2589.9	2586.5	2583.1	2579.7	2583.1	2572.8	2569.4	2569.4
10°	2600.1	2593.3	2593.3	2583.1	2576.3	2566.0	2555.8	2559.2	2545.6	2535.4	2535.4
12.5°	2559.2	2542.2	2532.0	2521.7	2514.9	2511.5	2497.9	2504.7	2491.1	2487.7	2487.7
15°	2467.2	2446.8	2429.7	2422.9	2422.9	2416.1	2405.9	2419.5	2412.7	2416.1	2433.1
17.5°	2324.1	2313.9	2303.6	2300.2	2303.6	2310.5	2317.3	2337.7	2337.7	2347.9	2365.0
20°	2198.0	2191.2	2198.0	2198.0	2201.4	2215.0	2228.7	2245.7	2252.5	2262.7	2286.6
22.5°	2075.3	2075.3	2082.1	2092.4	2088.9	2112.8	2116.2	2146.9	2146.9	2167.3	2187.8
25°	1956.0	1956.0	1962.9	1966.3	1973.1	1986.7	2000.3	2024.2	2031.0	2051.5	2068.5
27.5°	1840.2	1836.8	1836.8	1840.2	1847.0	1864.0	1870.9	1898.1	1908.3	1922.0	1939.0
30°	1710.7	1707.3	1714.1	1720.9	1717.5	1734.5	1744.8	1765.2	1772.0	1785.7	1799.3
32.5°	1588.0	1588.0	1588.0	1594.8	1594.8	1608.5	1608.5	1632.3	1632.3	1642.5	1656.2
35°	1461.9	1461.9	1465.3	1468.7	1472.1	1475.6	1479.0	1492.6	1496.0	1499.4	1506.2
37.5°	1342.7	1339.2	1342.7	1342.7	1335.8	1349.5	1349.5	1363.1	1352.9	1363.1	1366.5
40°	1220.0	1220.0	1216.6	1216.6	1216.6	1223.4	1216.6	1226.8	1220.0	1226.8	1223.4
42.5°	1093.9	1093.9	1087.1	1093.9	1090.5	1090.5	1090.5	1097.3	1087.1	1093.9	1097.3
45°	967.8	964.4	964.4	961.0	961.0	961.0	964.4	964.4	961.0	967.8	967.8
47.5°	845.1	841.7	841.7	841.7	841.7	845.1	834.9	841.7	834.9	834.9	834.9
50°	739.5	736.1	732.7	729.3	725.8	725.8	722.4	722.4	715.6	712.2	708.8
52.5°	637.2	633.8	627.0	627.0	623.6	620.2	610.0	610.0	599.8	596.4	596.4
55°	545.2	535.0	531.6	524.8	524.8	518.0	511.2	504.3	494.1	487.3	487.3
57.5°	460.0	449.8	443.0	439.6	436.2	429.4	415.7	412.3	398.7	395.3	391.9
60°	385.1	374.9	364.6	357.8	354.4	344.2	330.6	323.7	316.9	306.7	296.5
62.5°	313.5	303.3	289.7	286.3	279.4	269.2	259.0	248.8	241.9	231.7	224.9
65°	252.2	241.9	231.7	224.9	218.1	207.9	197.6	187.4	180.6	177.2	173.8
67.5°	204.5	190.8	180.6	177.2	170.4	163.6	153.3	149.9	143.1	143.1	143.1
70°	160.2	149.9	139.7	136.3	132.9	126.1	119.3	119.3	119.3	119.3	119.3
72.5°	119.3	112.5	102.2	98.8	95.4	92.0	85.2	88.6	85.2	85.2	85.2
75°	75.0	68.2	61.3	57.9	54.5	51.1	47.7	44.3	40.9	37.5	37.5
77.5°	40.9	34.1	30.7	27.3	27.3	23.9	20.4	20.4	17.0	17.0	17.0
80°	23.9	20.4	17.0	13.6	13.6	10.2	10.2	10.2	10.2	6.8	6.8
82.5°	13.6	10.2	6.8	6.8	6.8	6.8	3.4	3.4	3.4	3.4	3.4
85°	6.8	6.8	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	0.0
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	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	0.0	0.0	0.0



TEST NUMBER: P252432

CATALOG NUMBER: LD6B70D010TE EU6B60709024 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0
2.5°	2603.5	2613.7	2603.5	2613.7	2613.7	2613.7	2613.7	2603.5
5°	2586.5	2593.3	2583.1	2589.9	2593.3	2589.9	2589.9	2579.7
7.5°	2555.8	2562.6	2552.4	2562.6	2566.0	2562.6	2559.2	2552.4
10°	2525.1	2528.5	2518.3	2525.1	2532.0	2532.0	2528.5	2518.3
12.5°	2477.4	2487.7	2477.4	2484.2	2491.1	2494.5	2494.5	2484.2
15°	2422.9	2439.9	2433.1	2443.4	2453.6	2457.0	2457.0	2453.6
17.5°	2368.4	2385.4	2375.2	2392.2	2402.5	2409.3	2412.7	2405.9
20°	2290.0	2310.5	2303.6	2317.3	2330.9	2341.1	2341.1	2330.9
22.5°	2187.8	2215.0	2211.6	2221.8	2238.9	2242.3	2249.1	2242.3
25°	2075.3	2095.8	2092.4	2102.6	2123.0	2123.0	2126.4	2126.4
27.5°	1945.8	1966.3	1962.9	1969.7	1983.3	1986.7	1990.1	1983.3
30°	1806.1	1816.3	1816.3	1826.6	1836.8	1840.2	1840.2	1830.0
32.5°	1652.8	1666.4	1673.2	1669.8	1680.0	1686.8	1683.4	1683.4
35°	1513.0	1516.4	1519.9	1523.3	1526.7	1533.5	1526.7	1523.3
37.5°	1363.1	1373.3	1366.5	1373.3	1380.1	1376.7	1373.3	1373.3
40°	1226.8	1230.2	1223.4	1230.2	1233.6	1233.6	1233.6	1226.8
42.5°	1090.5	1097.3	1090.5	1097.3	1097.3	1097.3	1097.3	1093.9
45°	954.2	961.0	961.0	964.4	964.4	961.0	961.0	961.0
47.5°	828.1	834.9	828.1	834.9	838.3	831.5	831.5	831.5
50°	708.8	705.4	705.4	708.8	708.8	708.8	708.8	705.4
52.5°	586.1	589.5	589.5	589.5	592.9	589.5	592.9	592.9
55°	480.5	480.5	480.5	483.9	480.5	480.5	483.9	487.3
57.5°	385.1	381.7	378.3	378.3	381.7	378.3	378.3	378.3
60°	296.5	293.1	289.7	289.7	289.7	289.7	289.7	286.3
62.5°	221.5	221.5	221.5	224.9	224.9	224.9	224.9	228.3
65°	177.2	177.2	177.2	177.2	177.2	177.2	177.2	180.6
67.5°	143.1	143.1	143.1	146.5	146.5	146.5	146.5	146.5
70°	119.3	119.3	122.7	119.3	122.7	122.7	122.7	122.7
72.5°	81.8	81.8	81.8	81.8	81.8	78.4	81.8	78.4
75°	34.1	34.1	34.1	34.1	34.1	34.1	34.1	30.7
77.5°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
80°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	3.4	3.4	3.4	3.4	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)