

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: P252536

Luminaire Tested: **LD6B70D010TE EU6B60709024 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252536
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 EU6B60709024 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4349.0 lumens
Efficiency: N/A
Efficacy: 54.7 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

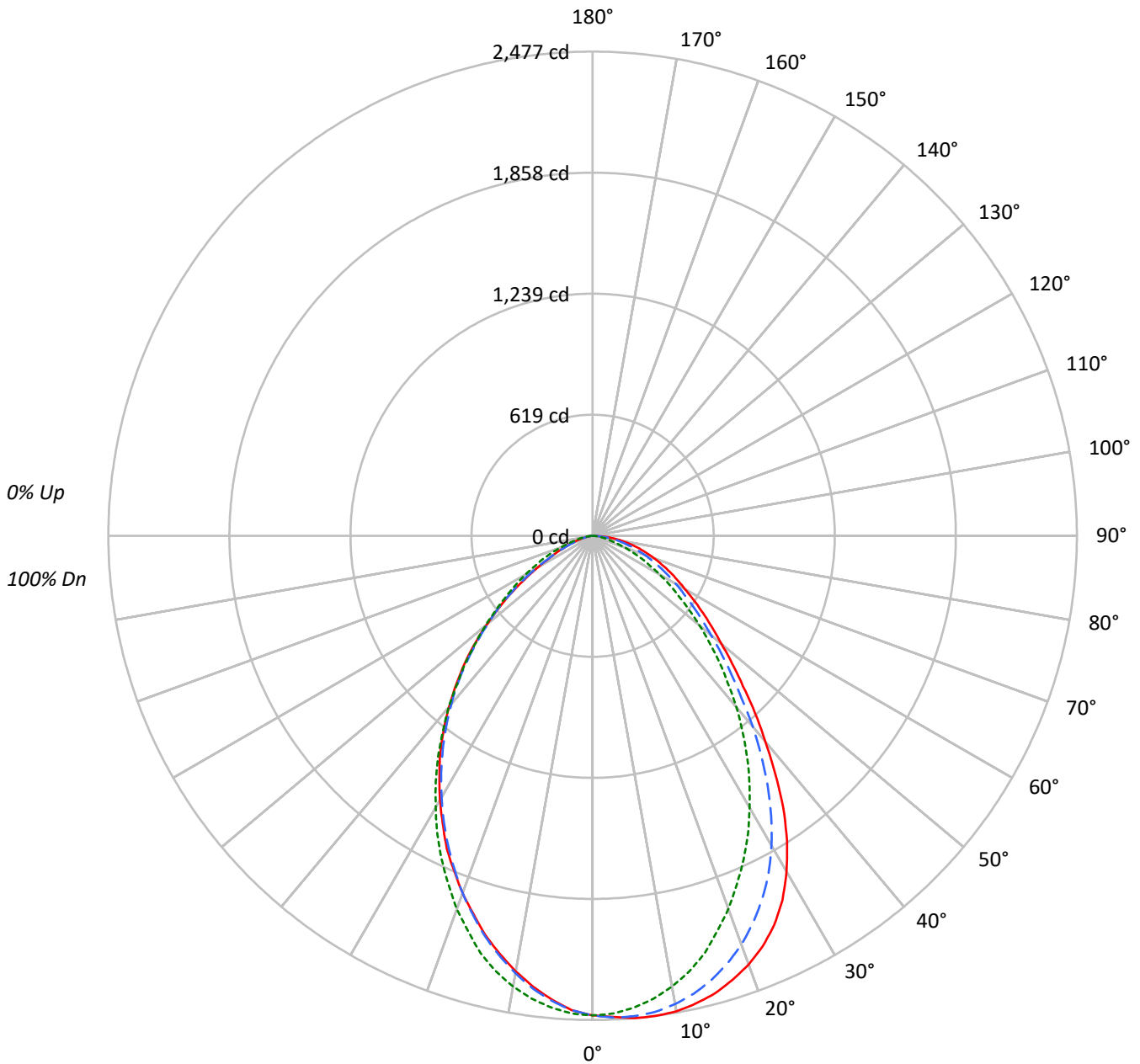
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252536

CATALOG NUMBER: LD6B70D010TE EU6B60709024 6LBLWW1H

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			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°	160068	160068	160068
5°	162238	158669	155990
10°	163663	155084	149897
15°	163641	149369	142926
20°	162058	141001	135085
25°	158216	131481	127061
30°	149401	120910	117573
35°	135427	109646	108284
40°	116958	97515	97217
45°	100291	84892	85520
50°	87155	72631	71596
55°	78290	61240	57361
60°	71138	51579	42237
65°	66812	42607	31029
70°	63692	33152	22757
75°	60976	24048	15452
80°	57596	16644	10257
85°	51051	10180	5090



TEST NUMBER: P252536

CATALOG NUMBER: LD6B70D010TE EU6B60709024 6LBLWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.5	5.3
10°-20°	628.6	14.5
20°-30°	872.6	20.1
30°-40°	903.9	20.8
40°-50°	742.7	17.1
50°-60°	510.5	11.7
60°-70°	293.4	6.7
70°-80°	134.9	3.1
80°-90°	32.8	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°	1730.7	39.8
0°-40°	2634.5	60.6
0°-60°	3887.8	89.4
0°-90°	4349.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4349.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2454	2454	2454	2454	2454	
5°	2477	2467	2423	2389	2382	236
15°	2423	2351	2212	2123	2116	682
25°	2198	2051	1826	1748	1765	1006
35°	1700	1561	1377	1336	1360	1054
45°	1087	1005	920	910	927	847
55°	688	624	538	508	504	619
65°	433	378	276	194	201	431
75°	242	191	95	61	61	256
85°	68	48	14	7	7	76
90°	0	0	0	0	0	



TEST NUMBER: P252536

CATALOG NUMBER: LD6B70D010TE EU6B60709024 6LBLWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2453.5	2453.5	2453.5	2453.5	2453.5	2453.5	2453.5	2453.5	2453.5	2453.5	2453.5
2.5°	2463.7	2484.1	2470.5	2467.1	2473.9	2473.9	2473.9	2463.7	2470.5	2460.3	2467.1
5°	2477.3	2494.4	2480.7	2473.9	2480.7	2484.1	2473.9	2467.1	2477.3	2463.7	2467.1
7.5°	2477.3	2494.4	2480.7	2477.3	2480.7	2480.7	2477.3	2463.7	2470.5	2456.9	2456.9
10°	2470.5	2484.1	2470.5	2463.7	2467.1	2463.7	2463.7	2446.7	2450.1	2433.0	2433.0
12.5°	2450.1	2467.1	2450.1	2443.3	2443.3	2443.3	2433.0	2419.4	2422.8	2402.4	2399.0
15°	2422.8	2436.4	2419.4	2412.6	2412.6	2409.2	2402.4	2381.9	2381.9	2361.5	2351.3
17.5°	2381.9	2395.6	2381.9	2371.7	2368.3	2361.5	2354.7	2334.2	2327.4	2303.5	2293.3
20°	2334.2	2344.4	2330.8	2320.6	2313.8	2307.0	2293.3	2272.9	2266.1	2242.2	2225.2
22.5°	2272.9	2286.5	2266.1	2255.8	2249.0	2238.8	2225.2	2204.7	2194.5	2163.8	2143.4
25°	2197.9	2204.7	2187.7	2177.5	2163.8	2157.0	2146.8	2119.5	2109.3	2075.2	2051.4
27.5°	2102.5	2109.3	2088.9	2082.1	2065.0	2058.2	2044.6	2020.7	2007.1	1973.0	1949.2
30°	1983.2	1990.0	1976.4	1966.2	1952.6	1938.9	1928.7	1904.9	1884.4	1850.3	1829.9
32.5°	1850.3	1860.6	1846.9	1833.3	1809.4	1812.8	1795.8	1772.0	1754.9	1724.3	1700.4
35°	1700.4	1707.2	1690.2	1686.8	1673.1	1659.5	1642.5	1625.4	1615.2	1581.1	1560.7
37.5°	1533.4	1550.5	1533.4	1519.8	1513.0	1502.8	1492.5	1468.7	1461.9	1441.4	1414.2
40°	1373.3	1383.5	1373.3	1359.6	1349.4	1349.4	1335.8	1322.2	1305.1	1284.7	1274.4
42.5°	1230.1	1223.3	1219.9	1213.1	1199.5	1196.1	1192.7	1175.6	1165.4	1145.0	1127.9
45°	1087.0	1090.4	1083.6	1080.2	1070.0	1063.2	1056.4	1042.7	1039.3	1018.9	1005.2
47.5°	967.8	964.4	957.5	957.5	950.7	943.9	937.1	926.9	923.5	906.4	892.8
50°	858.7	862.1	858.7	855.3	845.1	841.7	834.9	828.0	821.2	804.2	790.6
52.5°	770.1	766.7	763.3	763.3	753.1	749.7	742.9	736.0	729.2	712.2	702.0
55°	688.3	688.3	684.9	681.5	671.3	667.9	664.5	657.7	647.4	633.8	623.6
57.5°	613.4	613.4	610.0	606.6	599.7	599.7	592.9	586.1	579.3	565.7	552.0
60°	545.2	548.6	545.2	541.8	535.0	535.0	531.6	521.4	518.0	500.9	490.7
62.5°	487.3	487.3	487.3	483.9	480.5	473.7	473.7	463.4	456.6	446.4	432.8
65°	432.8	432.8	432.8	429.4	422.5	419.1	415.7	408.9	402.1	391.9	378.2
67.5°	381.7	381.7	381.7	378.2	371.4	368.0	364.6	361.2	351.0	340.8	327.1
70°	333.9	333.9	330.5	327.1	323.7	320.3	316.9	310.1	303.3	289.6	279.4
72.5°	286.2	286.2	286.2	279.4	276.0	276.0	269.2	265.8	259.0	245.3	235.1
75°	241.9	238.5	238.5	235.1	231.7	228.3	224.9	221.5	211.3	204.5	190.8
77.5°	197.6	197.6	194.2	190.8	190.8	187.4	184.0	177.2	173.8	163.6	153.3
80°	153.3	153.3	153.3	153.3	149.9	146.5	146.5	139.7	136.3	126.1	119.3
82.5°	115.9	112.5	112.5	112.5	109.0	105.6	105.6	102.2	98.8	92.0	85.2
85°	68.2	64.7	64.7	64.7	61.3	61.3	57.9	57.9	54.5	47.7	47.7
87.5°	20.4	20.4	23.9	23.9	20.4	20.4	20.4	20.4	20.4	17.0	17.0
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: P252536

CATALOG NUMBER: LD6B70D010TE EU6B60709024 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2453.5	2453.5	2453.5	2453.5	2453.5	2453.5	2453.5	2453.5	2453.5	2453.5	2453.5
2.5°	2460.3	2470.5	2456.9	2453.5	2467.1	2460.3	2456.9	2450.1	2453.5	2446.7	2436.4
5°	2456.9	2470.5	2453.5	2443.3	2460.3	2450.1	2443.3	2436.4	2436.4	2422.8	2416.0
7.5°	2446.7	2453.5	2436.4	2426.2	2436.4	2426.2	2419.4	2409.2	2405.8	2388.7	2378.5
10°	2419.4	2426.2	2405.8	2392.1	2402.4	2388.7	2378.5	2368.3	2361.5	2341.0	2327.4
12.5°	2381.9	2385.3	2361.5	2344.4	2351.3	2341.0	2324.0	2310.4	2303.5	2283.1	2266.1
15°	2330.8	2334.2	2307.0	2283.1	2289.9	2276.3	2255.8	2242.2	2232.0	2211.5	2187.7
17.5°	2269.5	2266.1	2235.4	2211.5	2214.9	2197.9	2177.5	2157.0	2143.4	2119.5	2102.5
20°	2201.3	2191.1	2157.0	2129.8	2133.2	2112.7	2088.9	2068.4	2051.4	2030.9	2007.1
22.5°	2116.1	2102.5	2071.8	2037.8	2041.2	2024.1	1990.0	1973.0	1956.0	1928.7	1908.3
25°	2024.1	2003.7	1973.0	1938.9	1938.9	1918.5	1891.2	1870.8	1853.7	1826.5	1802.6
27.5°	1915.1	1904.9	1864.0	1836.7	1833.3	1812.8	1789.0	1765.1	1744.7	1720.8	1697.0
30°	1795.8	1778.8	1748.1	1717.4	1710.6	1693.6	1669.7	1642.5	1628.8	1605.0	1584.5
32.5°	1669.7	1652.7	1618.6	1587.9	1584.5	1570.9	1550.5	1523.2	1509.6	1492.5	1478.9
35°	1526.6	1519.8	1485.7	1461.9	1461.9	1448.2	1427.8	1403.9	1393.7	1376.7	1359.6
37.5°	1390.3	1380.1	1349.4	1329.0	1329.0	1311.9	1291.5	1281.3	1271.0	1257.4	1247.2
40°	1247.2	1240.4	1216.5	1196.1	1199.5	1185.8	1172.2	1158.6	1151.8	1145.0	1134.7
42.5°	1114.3	1107.5	1090.4	1073.4	1073.4	1063.2	1049.5	1039.3	1032.5	1022.3	1018.9
45°	995.0	984.8	971.2	954.1	954.1	943.9	937.1	930.3	926.9	920.1	909.8
47.5°	879.2	872.3	858.7	841.7	841.7	841.7	828.0	817.8	817.8	811.0	807.6
50°	780.3	770.1	759.9	746.3	746.3	739.5	729.2	719.0	719.0	715.6	708.8
52.5°	688.3	681.5	667.9	654.3	654.3	647.4	637.2	633.8	630.4	620.2	616.8
55°	610.0	603.1	592.9	575.9	572.5	569.1	558.8	552.0	548.6	538.4	538.4
57.5°	538.4	531.6	514.5	504.3	500.9	494.1	483.9	477.1	473.7	466.8	460.0
60°	477.1	466.8	453.2	439.6	436.2	429.4	419.1	412.3	408.9	395.3	388.5
62.5°	419.1	408.9	395.3	381.7	378.2	371.4	357.8	351.0	344.2	330.5	323.7
65°	364.6	354.4	340.8	327.1	320.3	316.9	303.3	293.1	286.2	276.0	262.4
67.5°	313.5	303.3	289.6	272.6	272.6	262.4	252.2	241.9	231.7	221.5	211.3
70°	265.8	255.6	241.9	228.3	224.9	218.1	207.9	194.2	187.4	173.8	163.6
72.5°	221.5	211.3	197.6	184.0	180.6	173.8	163.6	149.9	139.7	129.5	119.3
75°	180.6	170.4	156.8	146.5	143.1	136.3	126.1	112.5	102.2	95.4	85.2
77.5°	143.1	132.9	122.7	112.5	109.0	102.2	92.0	85.2	75.0	68.2	57.9
80°	109.0	102.2	92.0	85.2	81.8	75.0	68.2	57.9	51.1	44.3	40.9
82.5°	78.4	71.6	64.7	54.5	54.5	47.7	44.3	37.5	30.7	27.3	23.9
85°	44.3	37.5	34.1	30.7	27.3	27.3	23.9	20.4	17.0	13.6	13.6
87.5°	13.6	13.6	10.2	10.2	10.2	10.2	6.8	6.8	6.8	6.8	6.8
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: P252536

CATALOG NUMBER: LD6B70D010TE EU6B60709024 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2453.5	2453.5	2453.5	2453.5	2453.5	2453.5	2453.5	2453.5	2453.5	2453.5	2453.5
2.5°	2436.4	2439.8	2433.0	2439.8	2433.0	2436.4	2429.6	2436.4	2429.6	2436.4	2422.8
5°	2412.6	2412.6	2402.4	2409.2	2402.4	2405.8	2392.1	2395.6	2388.7	2395.6	2381.9
7.5°	2371.7	2375.1	2358.1	2364.9	2354.7	2354.7	2344.4	2347.8	2337.6	2341.0	2330.8
10°	2324.0	2320.6	2303.5	2310.4	2296.7	2296.7	2286.5	2286.5	2272.9	2276.3	2262.7
12.5°	2255.8	2252.4	2232.0	2238.8	2225.2	2225.2	2214.9	2214.9	2201.3	2208.1	2194.5
15°	2177.5	2174.1	2153.6	2157.0	2143.4	2143.4	2129.8	2133.2	2122.9	2129.8	2116.1
17.5°	2088.9	2085.5	2065.0	2068.4	2051.4	2054.8	2044.6	2041.2	2034.3	2037.8	2027.5
20°	1996.9	1990.0	1969.6	1973.0	1966.2	1956.0	1949.2	1952.6	1945.7	1952.6	1942.3
22.5°	1901.4	1887.8	1870.8	1870.8	1864.0	1864.0	1853.7	1860.6	1846.9	1857.1	1850.3
25°	1792.4	1782.2	1768.6	1775.4	1761.7	1761.7	1751.5	1754.9	1748.1	1754.9	1748.1
27.5°	1686.8	1680.0	1659.5	1666.3	1656.1	1659.5	1649.3	1652.7	1649.3	1656.1	1649.3
30°	1574.3	1570.9	1557.3	1557.3	1553.9	1550.5	1547.1	1547.1	1543.6	1553.9	1547.1
32.5°	1468.7	1458.5	1444.8	1455.0	1438.0	1448.2	1441.4	1448.2	1441.4	1448.2	1444.8
35°	1359.6	1356.2	1339.2	1342.6	1339.2	1339.2	1335.8	1335.8	1335.8	1346.0	1346.0
37.5°	1243.8	1240.4	1230.1	1233.6	1226.7	1223.3	1223.3	1230.1	1230.1	1237.0	1237.0
40°	1131.3	1134.7	1124.5	1124.5	1121.1	1121.1	1121.1	1127.9	1124.5	1131.3	1127.9
42.5°	1018.9	1018.9	1008.7	1012.1	1008.7	1012.1	1012.1	1018.9	1018.9	1022.3	1018.9
45°	913.2	913.2	909.8	913.2	906.4	909.8	906.4	913.2	909.8	913.2	913.2
47.5°	807.6	807.6	807.6	804.2	804.2	804.2	804.2	804.2	800.8	807.6	804.2
50°	708.8	712.2	708.8	708.8	705.4	708.8	705.4	705.4	698.6	702.0	702.0
52.5°	620.2	620.2	613.4	613.4	613.4	610.0	610.0	610.0	606.6	606.6	599.7
55°	535.0	535.0	528.2	528.2	524.8	521.4	518.0	518.0	507.7	507.7	497.5
57.5°	456.6	453.2	443.0	443.0	436.2	432.8	429.4	426.0	419.1	412.3	408.9
60°	385.1	378.2	371.4	368.0	361.2	354.4	347.6	340.8	333.9	330.5	327.1
62.5°	316.9	306.7	299.9	296.5	289.6	279.4	272.6	265.8	259.0	255.6	248.8
65°	255.6	245.3	235.1	231.7	224.9	218.1	207.9	201.0	194.2	190.8	190.8
67.5°	201.0	190.8	177.2	177.2	170.4	163.6	156.8	149.9	146.5	149.9	149.9
70°	149.9	143.1	132.9	129.5	122.7	115.9	112.5	112.5	112.5	115.9	112.5
72.5°	112.5	102.2	95.4	92.0	88.6	85.2	85.2	85.2	81.8	85.2	85.2
75°	78.4	71.6	64.7	64.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3
77.5°	54.5	47.7	44.3	44.3	44.3	40.9	40.9	40.9	40.9	40.9	40.9
80°	34.1	34.1	30.7	30.7	27.3	27.3	27.3	27.3	27.3	27.3	27.3
82.5°	20.4	20.4	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
85°	10.2	10.2	10.2	10.2	10.2	6.8	6.8	6.8	6.8	6.8	6.8
87.5°	3.4	3.4	3.4	3.4	3.4	6.8	6.8	6.8	6.8	6.8	6.8
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: P252536

CATALOG NUMBER: LD6B70D010TE EU6B60709024 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2453.5	2453.5	2453.5	2453.5	2453.5	2453.5	2453.5	2453.5
2.5°	2422.8	2433.0	2419.4	2429.6	2426.2	2422.8	2416.0	2429.6
5°	2381.9	2385.3	2371.7	2385.3	2381.9	2375.1	2368.3	2381.9
7.5°	2324.0	2334.2	2317.2	2330.8	2327.4	2320.6	2313.8	2327.4
10°	2259.2	2269.5	2255.8	2266.1	2266.1	2259.2	2249.0	2262.7
12.5°	2187.7	2194.5	2180.9	2194.5	2191.1	2184.3	2180.9	2191.1
15°	2109.3	2119.5	2105.9	2116.1	2112.7	2109.3	2105.9	2116.1
17.5°	2024.1	2034.3	2024.1	2034.3	2034.3	2024.1	2020.7	2027.5
20°	1938.9	1945.7	1935.5	1945.7	1942.3	1942.3	1935.5	1945.7
22.5°	1843.5	1853.7	1846.9	1853.7	1850.3	1850.3	1846.9	1853.7
25°	1748.1	1758.3	1748.1	1758.3	1754.9	1754.9	1748.1	1765.1
27.5°	1652.7	1659.5	1649.3	1662.9	1659.5	1652.7	1656.1	1659.5
30°	1550.5	1557.3	1550.5	1560.7	1560.7	1560.7	1553.9	1560.7
32.5°	1448.2	1458.5	1448.2	1458.5	1455.0	1455.0	1451.6	1458.5
35°	1346.0	1349.4	1342.6	1352.8	1352.8	1356.2	1349.4	1359.6
37.5°	1240.4	1243.8	1240.4	1243.8	1250.6	1240.4	1247.2	1250.6
40°	1131.3	1138.1	1134.7	1138.1	1138.1	1141.5	1138.1	1141.5
42.5°	1022.3	1029.1	1022.3	1032.5	1029.1	1029.1	1032.5	1032.5
45°	909.8	920.1	913.2	920.1	923.5	920.1	920.1	926.9
47.5°	804.2	811.0	807.6	811.0	811.0	811.0	811.0	817.8
50°	698.6	702.0	702.0	705.4	705.4	708.8	702.0	705.4
52.5°	592.9	599.7	599.7	599.7	596.3	599.7	599.7	599.7
55°	497.5	500.9	494.1	500.9	500.9	497.5	497.5	504.3
57.5°	405.5	405.5	405.5	405.5	405.5	402.1	405.5	405.5
60°	320.3	323.7	320.3	320.3	320.3	320.3	316.9	323.7
62.5°	248.8	248.8	245.3	248.8	248.8	248.8	252.2	252.2
65°	194.2	197.6	194.2	197.6	197.6	197.6	197.6	201.0
67.5°	153.3	153.3	153.3	153.3	153.3	153.3	153.3	153.3
70°	115.9	115.9	115.9	119.3	115.9	115.9	115.9	119.3
72.5°	85.2	85.2	85.2	85.2	85.2	85.2	88.6	88.6
75°	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
77.5°	40.9	40.9	40.9	44.3	40.9	44.3	40.9	40.9
80°	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
82.5°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
85°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
87.5°	6.8	6.8	6.8	6.8	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)