

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: P252401

Luminaire Tested: **LD6B50D010TE EU6B30508027 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252401
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: LD6B50D010TE EU6B30508027 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4624.0 lumens
Efficiency: N/A
Efficacy: 78.7 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

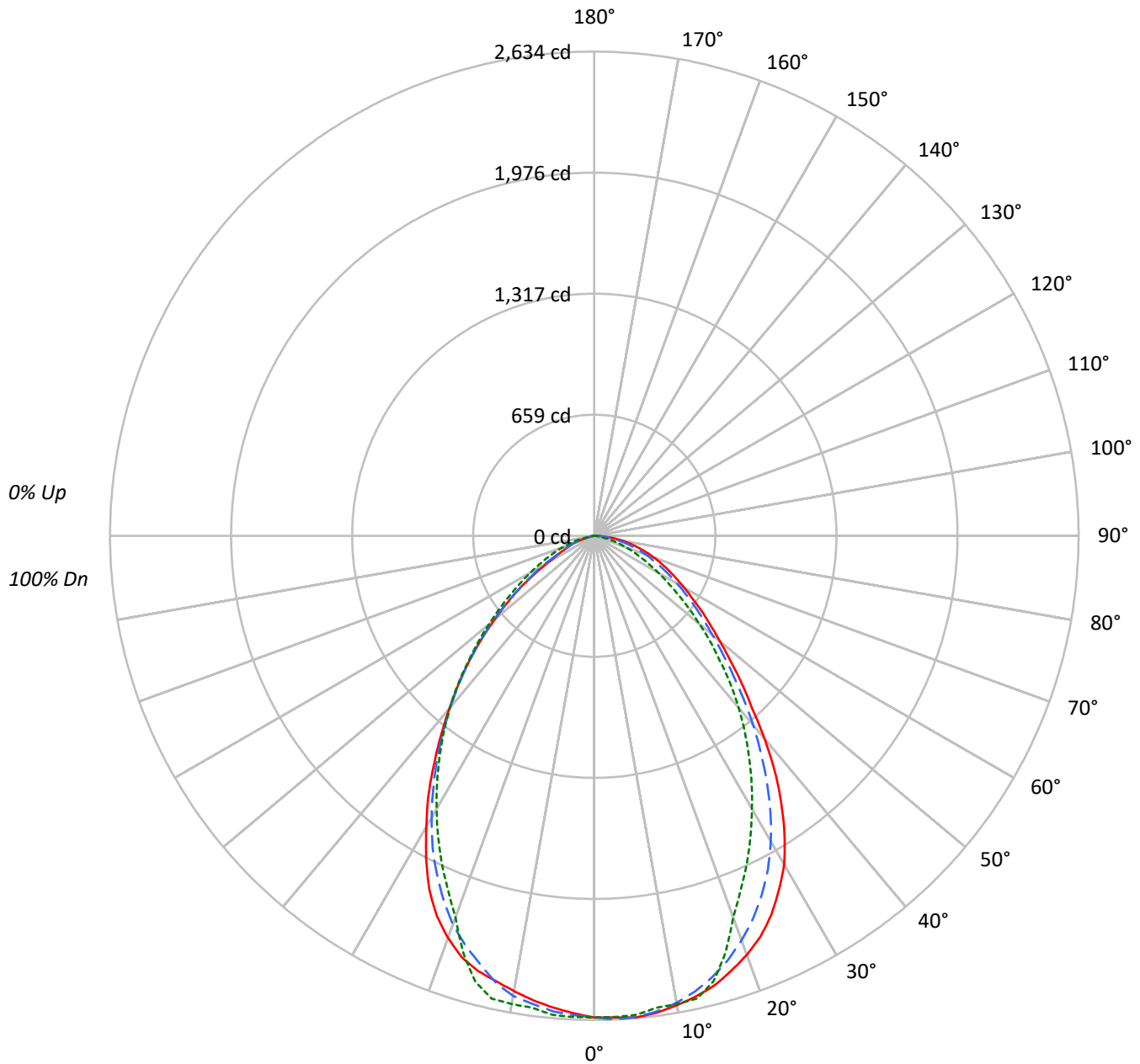
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252401

CATALOG NUMBER: LD6B50D010TE EU6B30508027 6LBLWW1LI

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	0			
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°	170930	170930	170930
5°	172251	171361	168689
10°	171765	171315	166578
15°	170983	169375	165471
20°	168431	153317	161586
25°	163860	141328	152839
30°	155594	129189	137649
35°	141193	116798	121139
40°	122579	104030	104319
45°	104545	89469	88527
50°	90484	75635	71484
55°	80883	63082	55348
60°	73696	52388	37292
65°	68804	43070	27833
70°	65561	35041	23367
75°	61757	24879	7713
80°	58798	12774	2555
85°	48356	7635	0



TEST NUMBER: P252401

CATALOG NUMBER: LD6B50D010TE EU6B30508027 6LBLWW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.4	5.4
10°-20°	692.0	15.0
20°-30°	955.2	20.7
30°-40°	972.0	21.0
40°-50°	781.1	16.9
50°-60°	519.4	11.2
60°-70°	296.0	6.4
70°-80°	132.9	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°	1894.5	41.0
0°-40°	2866.5	62.0
0°-60°	4167.1	90.1
0°-90°	4624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4624.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2620	2620	2620	2620	2620	
5°	2630	2627	2617	2596	2576	250
15°	2532	2484	2508	2409	2450	712
25°	2276	2154	1963	2028	2123	1043
35°	1773	1637	1466	1494	1521	1102
45°	1133	1065	970	960	960	879
55°	711	664	555	493	487	639
65°	446	398	279	180	180	444
75°	245	204	99	41	31	262
85°	65	44	10	3	0	77
90°	0	0	0	0	0	



TEST NUMBER: P252401

CATALOG NUMBER: LD6B50D010TE EU6B30508027 6LBLWW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0
2.5°	2623.4	2637.0	2633.6	2630.2	2633.6	2630.2	2623.4	2623.4	2616.6	2616.6	2633.6
5°	2630.2	2637.0	2633.6	2630.2	2630.2	2633.6	2620.0	2620.0	2613.2	2609.8	2626.8
7.5°	2616.6	2626.8	2620.0	2620.0	2616.6	2620.0	2606.4	2606.4	2596.2	2592.8	2609.8
10°	2592.8	2606.4	2599.6	2599.6	2599.6	2592.8	2586.0	2582.6	2572.4	2569.0	2579.2
12.5°	2565.6	2575.8	2572.4	2565.6	2565.6	2565.6	2551.9	2548.5	2534.9	2528.1	2538.3
15°	2531.5	2538.3	2534.9	2531.5	2524.7	2524.7	2511.1	2504.3	2490.7	2477.1	2483.9
17.5°	2480.5	2490.7	2483.9	2480.5	2470.3	2470.3	2456.7	2449.9	2429.5	2415.8	2419.2
20°	2426.0	2429.5	2426.0	2419.2	2409.0	2405.6	2392.0	2378.4	2361.4	2344.4	2341.0
22.5°	2361.4	2364.8	2354.6	2347.8	2337.6	2334.2	2317.2	2307.0	2279.7	2259.3	2255.9
25°	2276.3	2279.7	2279.7	2262.7	2255.9	2249.1	2232.1	2215.1	2191.3	2164.0	2153.8
27.5°	2174.3	2184.5	2177.7	2160.6	2147.0	2143.6	2126.6	2113.0	2082.4	2058.6	2045.0
30°	2065.4	2062.0	2058.6	2048.4	2027.9	2024.5	2007.5	1990.5	1966.7	1936.1	1919.1
32.5°	1925.9	1925.9	1922.5	1912.3	1891.8	1885.0	1871.4	1851.0	1823.8	1800.0	1783.0
35°	1772.8	1776.2	1772.8	1752.3	1738.7	1731.9	1725.1	1701.3	1677.5	1650.3	1636.6
37.5°	1612.8	1602.6	1606.0	1589.0	1572.0	1578.8	1558.4	1548.2	1521.0	1500.5	1486.9
40°	1439.3	1446.1	1432.5	1425.7	1415.5	1405.3	1405.3	1388.3	1374.6	1350.8	1344.0
42.5°	1269.2	1279.4	1276.0	1269.2	1255.6	1259.0	1241.9	1235.1	1218.1	1207.9	1197.7
45°	1133.1	1133.1	1133.1	1126.3	1122.9	1116.1	1105.8	1095.6	1085.4	1071.8	1065.0
47.5°	1000.4	1000.4	1003.8	997.0	990.2	986.8	979.9	979.9	962.9	949.3	942.5
50°	891.5	891.5	891.5	884.7	877.9	877.9	871.1	864.3	854.1	843.8	837.0
52.5°	792.8	792.8	792.8	786.0	782.6	779.2	775.8	772.4	758.8	752.0	745.2
55°	711.1	707.7	707.7	704.3	697.5	697.5	694.1	687.3	677.1	666.9	663.5
57.5°	629.5	632.9	629.5	629.5	622.7	622.7	615.9	612.5	602.3	595.5	588.6
60°	564.8	564.8	564.8	561.4	554.6	558.0	551.2	547.8	537.6	527.4	520.6
62.5°	500.2	503.6	503.6	500.2	493.4	493.4	490.0	486.6	476.4	466.2	455.9
65°	445.7	445.7	445.7	442.3	438.9	438.9	435.5	432.1	421.9	408.3	398.1
67.5°	394.7	391.3	391.3	391.3	387.9	384.5	381.1	377.7	367.5	357.3	343.7
70°	343.7	343.7	343.7	340.3	333.5	336.9	333.5	330.1	319.8	309.6	299.4
72.5°	296.0	296.0	292.6	289.2	289.2	285.8	285.8	282.4	272.2	258.6	248.4
75°	245.0	245.0	245.0	245.0	238.2	241.6	234.8	231.4	224.6	214.4	204.2
77.5°	200.8	200.8	200.8	197.4	193.9	193.9	190.5	187.1	176.9	170.1	156.5
80°	156.5	156.5	156.5	156.5	153.1	149.7	146.3	142.9	136.1	125.9	115.7
82.5°	115.7	115.7	112.3	112.3	112.3	108.9	105.5	102.1	95.3	88.5	81.7
85°	64.6	68.1	68.1	61.2	64.6	61.2	61.2	54.4	54.4	47.6	44.2
87.5°	23.8	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: P252401

CATALOG NUMBER: LD6B50D010TE EU6B30508027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0
2.5°	2620.0	2616.6	2630.2	2630.2	2609.8	2620.0	2623.4	2616.6	2616.6	2620.0	2609.8
5°	2613.2	2606.4	2620.0	2623.4	2603.0	2613.2	2616.6	2609.8	2613.2	2616.6	2603.0
7.5°	2589.4	2589.4	2599.6	2603.0	2582.6	2592.8	2592.8	2586.0	2589.4	2589.4	2579.2
10°	2565.6	2555.3	2565.6	2565.6	2548.5	2551.9	2558.8	2555.3	2569.0	2586.0	2586.0
12.5°	2521.3	2511.1	2528.1	2528.1	2517.9	2531.5	2548.5	2558.8	2572.4	2579.2	2558.8
15°	2466.9	2470.3	2500.9	2524.7	2514.5	2534.9	2551.9	2545.1	2528.1	2507.7	2477.1
17.5°	2395.4	2385.2	2412.4	2426.0	2412.4	2419.2	2432.9	2419.2	2392.0	2375.0	2334.2
20°	2313.8	2286.5	2286.5	2279.7	2255.9	2255.9	2252.5	2228.7	2218.5	2208.3	2191.3
22.5°	2221.9	2191.3	2181.1	2160.6	2140.2	2136.8	2126.6	2102.8	2089.2	2082.4	2062.0
25°	2116.4	2089.2	2072.2	2051.8	2021.1	2014.3	2004.1	1980.3	1973.5	1963.3	1946.3
27.5°	2007.5	1973.5	1949.7	1929.3	1902.0	1898.6	1878.2	1861.2	1847.6	1840.8	1827.2
30°	1881.6	1844.2	1827.2	1800.0	1779.6	1772.8	1755.7	1731.9	1721.7	1714.9	1704.7
32.5°	1742.1	1711.5	1694.5	1670.7	1643.5	1646.9	1626.4	1606.0	1599.2	1592.4	1582.2
35°	1606.0	1575.4	1555.0	1534.6	1517.6	1510.8	1497.1	1480.1	1469.9	1466.5	1459.7
37.5°	1456.3	1432.5	1415.5	1395.1	1381.5	1374.6	1367.8	1350.8	1344.0	1344.0	1330.4
40°	1310.0	1289.6	1276.0	1265.8	1248.8	1245.3	1238.5	1228.3	1224.9	1221.5	1211.3
42.5°	1177.3	1150.1	1139.9	1133.1	1122.9	1116.1	1112.6	1105.8	1102.4	1099.0	1088.8
45°	1051.4	1027.6	1017.4	1010.6	1000.4	997.0	993.6	983.3	976.5	969.7	966.3
47.5°	928.9	911.9	908.5	891.5	884.7	877.9	871.1	864.3	860.9	857.5	843.8
50°	823.4	813.2	796.2	786.0	779.2	775.8	762.2	752.0	748.6	745.2	735.0
52.5°	728.2	714.5	704.3	687.3	683.9	677.1	670.3	656.7	649.9	646.5	636.3
55°	643.1	632.9	619.3	605.7	595.5	592.1	581.8	568.2	561.4	554.6	547.8
57.5°	571.6	554.6	541.0	527.4	520.6	510.4	500.2	493.4	483.2	473.0	462.8
60°	503.6	490.0	473.0	459.4	452.5	445.7	432.1	421.9	411.7	401.5	391.3
62.5°	438.9	425.3	408.3	394.7	387.9	381.1	367.5	357.3	347.1	336.9	323.2
65°	381.1	367.5	353.9	340.3	333.5	326.6	313.0	299.4	289.2	279.0	265.4
67.5°	333.5	316.4	302.8	289.2	282.4	275.6	262.0	251.8	238.2	228.0	214.4
70°	282.4	268.8	258.6	245.0	238.2	231.4	217.8	204.2	193.9	183.7	170.1
72.5°	238.2	221.2	211.0	197.4	190.5	187.1	173.5	163.3	153.1	139.5	129.3
75°	190.5	176.9	163.3	153.1	146.3	142.9	129.3	119.1	108.9	98.7	88.5
77.5°	146.3	136.1	122.5	112.3	105.5	102.1	88.5	78.3	68.1	61.2	51.0
80°	108.9	95.3	88.5	78.3	74.9	68.1	61.2	51.0	44.2	34.0	27.2
82.5°	74.9	64.6	57.8	51.0	47.6	44.2	37.4	30.6	23.8	20.4	17.0
85°	40.8	34.0	30.6	27.2	23.8	23.8	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: P252401

CATALOG NUMBER: LD6B50D010TE EU6B30508027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0
2.5°	2616.6	2616.6	2616.6	2613.2	2613.2	2613.2	2609.8	2623.4	2609.8	2606.4	2616.6
5°	2613.2	2606.4	2606.4	2606.4	2606.4	2603.0	2599.6	2606.4	2596.2	2592.8	2592.8
7.5°	2592.8	2589.4	2589.4	2586.0	2582.6	2579.2	2575.8	2579.2	2569.0	2565.6	2565.6
10°	2596.2	2589.4	2589.4	2579.2	2572.4	2562.2	2551.9	2555.3	2541.7	2531.5	2531.5
12.5°	2555.3	2538.3	2528.1	2517.9	2511.1	2507.7	2494.1	2500.9	2487.3	2483.9	2483.9
15°	2463.5	2443.1	2426.0	2419.2	2419.2	2412.4	2402.2	2415.8	2409.0	2412.4	2429.5
17.5°	2320.6	2310.4	2300.2	2296.8	2300.2	2307.0	2313.8	2334.2	2334.2	2344.4	2361.4
20°	2194.7	2187.9	2194.7	2194.7	2198.1	2211.7	2225.3	2242.3	2249.1	2259.3	2283.1
22.5°	2072.2	2072.2	2079.0	2089.2	2085.8	2109.6	2113.0	2143.6	2143.6	2164.0	2184.5
25°	1953.1	1953.1	1959.9	1963.3	1970.1	1983.7	1997.3	2021.1	2027.9	2048.4	2065.4
27.5°	1837.4	1834.0	1834.0	1837.4	1844.2	1861.2	1868.0	1895.2	1905.5	1919.1	1936.1
30°	1708.1	1704.7	1711.5	1718.3	1714.9	1731.9	1742.1	1762.5	1769.3	1783.0	1796.6
32.5°	1585.6	1585.6	1585.6	1592.4	1592.4	1606.0	1606.0	1629.8	1629.8	1640.1	1653.7
35°	1459.7	1459.7	1463.1	1466.5	1469.9	1473.3	1476.7	1490.3	1493.7	1497.1	1503.9
37.5°	1340.6	1337.2	1340.6	1340.6	1333.8	1347.4	1347.4	1361.0	1350.8	1361.0	1364.4
40°	1218.1	1218.1	1214.7	1214.7	1214.7	1221.5	1214.7	1224.9	1218.1	1224.9	1221.5
42.5°	1092.2	1092.2	1085.4	1092.2	1088.8	1088.8	1088.8	1095.6	1085.4	1092.2	1095.6
45°	966.3	962.9	962.9	959.5	959.5	959.5	962.9	962.9	959.5	966.3	966.3
47.5°	843.8	840.4	840.4	840.4	840.4	843.8	833.6	840.4	833.6	833.6	833.6
50°	738.4	735.0	731.6	728.2	724.8	724.8	721.3	721.3	714.5	711.1	707.7
52.5°	636.3	632.9	626.1	626.1	622.7	619.3	609.1	609.1	598.9	595.5	595.5
55°	544.4	534.2	530.8	524.0	524.0	517.2	510.4	503.6	493.4	486.6	486.6
57.5°	459.4	449.1	442.3	438.9	435.5	428.7	415.1	411.7	398.1	394.7	391.3
60°	384.5	374.3	364.1	357.3	353.9	343.7	330.1	323.2	316.4	306.2	296.0
62.5°	313.0	302.8	289.2	285.8	279.0	268.8	258.6	248.4	241.6	231.4	224.6
65°	251.8	241.6	231.4	224.6	217.8	207.6	197.4	187.1	180.3	176.9	173.5
67.5°	204.2	190.5	180.3	176.9	170.1	163.3	153.1	149.7	142.9	142.9	142.9
70°	159.9	149.7	139.5	136.1	132.7	125.9	119.1	119.1	119.1	119.1	119.1
72.5°	119.1	112.3	102.1	98.7	95.3	91.9	85.1	88.5	85.1	85.1	85.1
75°	74.9	68.1	61.2	57.8	54.4	51.0	47.6	44.2	40.8	37.4	37.4
77.5°	40.8	34.0	30.6	27.2	27.2	23.8	20.4	20.4	17.0	17.0	17.0
80°	23.8	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: P252401

CATALOG NUMBER: LD6B50D010TE EU6B30508027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0
2.5°	2599.6	2609.8	2599.6	2609.8	2609.8	2609.8	2609.8	2599.6
5°	2582.6	2589.4	2579.2	2586.0	2589.4	2586.0	2586.0	2575.8
7.5°	2551.9	2558.8	2548.5	2558.8	2562.2	2558.8	2555.3	2548.5
10°	2521.3	2524.7	2514.5	2521.3	2528.1	2528.1	2524.7	2514.5
12.5°	2473.7	2483.9	2473.7	2480.5	2487.3	2490.7	2490.7	2480.5
15°	2419.2	2436.3	2429.5	2439.7	2449.9	2453.3	2453.3	2449.9
17.5°	2364.8	2381.8	2371.6	2388.6	2398.8	2405.6	2409.0	2402.2
20°	2286.5	2307.0	2300.2	2313.8	2327.4	2337.6	2337.6	2327.4
22.5°	2184.5	2211.7	2208.3	2218.5	2235.5	2238.9	2245.7	2238.9
25°	2072.2	2092.6	2089.2	2099.4	2119.8	2119.8	2123.2	2123.2
27.5°	1942.9	1963.3	1959.9	1966.7	1980.3	1983.7	1987.1	1980.3
30°	1803.4	1813.6	1813.6	1823.8	1834.0	1837.4	1837.4	1827.2
32.5°	1650.3	1663.9	1670.7	1667.3	1677.5	1684.3	1680.9	1680.9
35°	1510.8	1514.2	1517.6	1521.0	1524.4	1531.2	1524.4	1521.0
37.5°	1361.0	1371.2	1364.4	1371.2	1378.1	1374.6	1371.2	1371.2
40°	1224.9	1228.3	1221.5	1228.3	1231.7	1231.7	1231.7	1224.9
42.5°	1088.8	1095.6	1088.8	1095.6	1095.6	1095.6	1095.6	1092.2
45°	952.7	959.5	959.5	962.9	962.9	959.5	959.5	959.5
47.5°	826.8	833.6	826.8	833.6	837.0	830.2	830.2	830.2
50°	707.7	704.3	704.3	707.7	707.7	707.7	707.7	704.3
52.5°	585.2	588.6	588.6	588.6	592.1	588.6	592.1	592.1
55°	479.8	479.8	479.8	483.2	479.8	479.8	483.2	486.6
57.5°	384.5	381.1	377.7	377.7	381.1	377.7	377.7	377.7
60°	296.0	292.6	289.2	289.2	289.2	289.2	289.2	285.8
62.5°	221.2	221.2	221.2	224.6	224.6	224.6	224.6	228.0
65°	176.9	176.9	176.9	176.9	176.9	176.9	176.9	180.3
67.5°	142.9	142.9	142.9	146.3	146.3	146.3	146.3	146.3
70°	119.1	119.1	122.5	119.1	122.5	122.5	122.5	122.5
72.5°	81.7	81.7	81.7	81.7	81.7	78.3	81.7	78.3
75°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	30.6
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)