

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: P252734

Luminaire Tested: **LD6B60D010TE EU6B60709035 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B60D010TE EU6B60709035 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4830.0 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

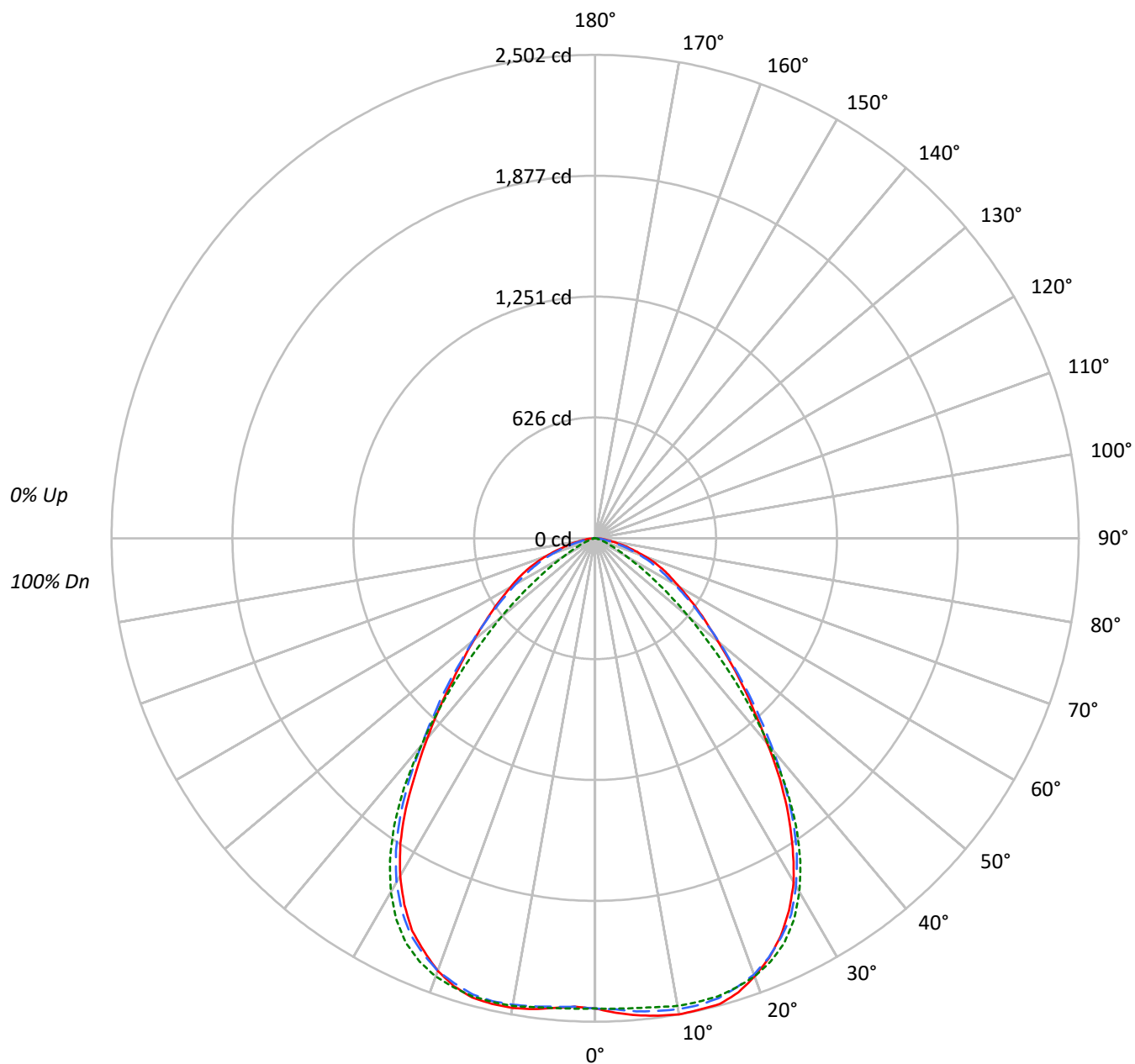
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252734

CATALOG NUMBER: LD6B60D010TE EU6B60709035 6LBDW1H

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						
1	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89						
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78						
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68						
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61						
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54						
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48						
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44						
8	67	55	47	42	66	54	47	42	53	47	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	39	35	45	39	35	44	39	35	33						

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	158763	158763	158763
5°	162297	159815	159815
10°	165770	162809	163491
15°	168544	165755	166221
20°	167515	167515	165363
25°	163528	166501	161297
30°	154795	159210	151947
35°	138708	144196	135968
40°	117844	119308	114905
45°	99719	91139	96222
50°	84191	64278	83146
55°	73990	41494	73205
60°	65567	24700	66024
65°	60576	14882	60576
70°	52533	8527	51217
75°	41642	5218	39046
80°	31033	3870	29756
85°	28370	2545	25750



TEST NUMBER: P252734

CATALOG NUMBER: LD6B60D010TE EU6B60709035 6LBDW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.3	4.9
10°-20°	693.4	14.4
20°-30°	1042.8	21.6
30°-40°	1096.4	22.7
40°-50°	819.1	17.0
50°-60°	509.9	10.6
60°-70°	290.0	6.0
70°-80°	119.4	2.5
80°-90°	24.7	0.5
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°	1970.5	40.8
0°-40°	3066.9	63.5
0°-60°	4395.9	91.0
0°-90°	4830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4830.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2434	2434	2434	2434	2434	
5°	2478	2458	2440	2434	2440	237
15°	2495	2464	2454	2444	2461	702
25°	2272	2279	2313	2261	2241	1040
35°	1742	1786	1810	1759	1707	1081
45°	1081	1105	988	1084	1043	837
55°	650	637	365	626	644	585
65°	392	351	96	351	392	386
75°	165	131	21	127	155	179
85°	38	24	3	21	34	42
90°	0	0	0	0	0	



TEST NUMBER: P252734

CATALOG NUMBER: LD6B60D010TE EU6B60709035 6LBDW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2433.5	2433.5	2433.5	2433.5	2433.5	2433.5	2433.5	2433.5	2433.5	2433.5	2433.5
2.5°	2457.6	2454.1	2457.6	2450.7	2447.2	2447.2	2450.7	2443.8	2440.3	2443.8	2440.3
5°	2478.2	2471.3	2474.8	2471.3	2464.4	2464.4	2467.9	2457.6	2457.6	2461.0	2457.6
7.5°	2492.0	2492.0	2492.0	2485.1	2481.6	2478.2	2485.1	2474.8	2471.3	2471.3	2467.9
10°	2502.3	2498.9	2502.3	2495.4	2488.5	2485.1	2492.0	2485.1	2478.2	2485.1	2474.8
12.5°	2498.9	2498.9	2498.9	2495.4	2488.5	2485.1	2492.0	2481.6	2478.2	2481.6	2474.8
15°	2495.4	2485.1	2488.5	2485.1	2474.8	2474.8	2478.2	2467.9	2461.0	2471.3	2464.4
17.5°	2464.4	2457.6	2461.0	2454.1	2447.2	2443.8	2447.2	2443.8	2436.9	2443.8	2436.9
20°	2412.8	2412.8	2416.2	2409.4	2402.5	2399.0	2405.9	2399.0	2392.2	2402.5	2402.5
22.5°	2350.9	2350.9	2350.9	2347.4	2344.0	2344.0	2344.0	2340.5	2337.1	2344.0	2347.4
25°	2271.7	2268.2	2271.7	2275.1	2271.7	2268.2	2271.7	2271.7	2264.8	2278.6	2278.6
27.5°	2171.9	2171.9	2178.8	2175.3	2175.3	2171.9	2178.8	2178.8	2175.3	2185.6	2196.0
30°	2054.8	2048.0	2054.8	2054.8	2058.3	2058.3	2061.7	2061.7	2061.7	2072.1	2078.9
32.5°	1903.4	1906.8	1917.2	1913.7	1910.3	1920.6	1920.6	1927.5	1930.9	1937.8	1941.3
35°	1741.6	1745.1	1745.1	1748.5	1755.4	1748.5	1765.7	1762.3	1765.7	1779.5	1786.4
37.5°	1569.5	1559.2	1576.4	1569.5	1573.0	1573.0	1579.9	1583.3	1593.6	1610.8	1610.8
40°	1383.7	1387.1	1394.0	1397.4	1400.9	1400.9	1400.9	1411.2	1414.6	1435.3	1431.9
42.5°	1221.9	1221.9	1228.8	1232.2	1232.2	1232.2	1232.2	1242.5	1249.4	1256.3	1263.2
45°	1080.8	1070.4	1077.3	1077.3	1084.2	1080.8	1087.7	1094.5	1098.0	1108.3	1104.9
47.5°	946.5	943.1	946.5	950.0	946.5	950.0	953.4	956.9	960.3	960.3	960.3
50°	829.5	829.5	833.0	836.4	836.4	836.4	836.4	839.8	839.8	846.7	839.8
52.5°	733.1	736.6	736.6	733.1	736.6	736.6	740.0	740.0	736.6	736.6	726.3
55°	650.5	647.1	650.5	647.1	650.5	650.5	647.1	647.1	643.6	640.2	636.8
57.5°	571.4	571.4	571.4	571.4	567.9	571.4	567.9	564.5	564.5	557.6	547.3
60°	502.5	502.5	502.5	502.5	502.5	499.1	502.5	499.1	492.2	485.3	471.5
62.5°	444.0	440.6	444.0	440.6	440.6	437.1	437.1	433.7	426.8	419.9	406.1
65°	392.4	395.8	392.4	392.4	388.9	385.5	385.5	382.1	371.7	364.8	351.1
67.5°	337.3	333.9	333.9	333.9	330.4	330.4	330.4	323.5	316.7	306.3	292.6
70°	275.4	275.4	275.4	271.9	271.9	268.5	268.5	265.0	258.1	251.3	234.1
72.5°	216.8	216.8	216.8	210.0	213.4	210.0	210.0	203.1	199.6	189.3	179.0
75°	165.2	165.2	161.8	161.8	158.3	154.9	154.9	151.4	148.0	141.1	130.8
77.5°	120.5	120.5	120.5	117.0	113.6	110.1	110.1	106.7	103.3	99.8	92.9
80°	82.6	82.6	82.6	82.6	79.2	75.7	75.7	72.3	72.3	68.8	62.0
82.5°	55.1	55.1	55.1	55.1	51.6	51.6	51.6	48.2	44.7	44.7	37.9
85°	37.9	37.9	34.4	34.4	34.4	34.4	31.0	31.0	27.5	24.1	24.1
87.5°	20.7	20.7	20.7	20.7	17.2	17.2	17.2	17.2	13.8	13.8	10.3
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: P252734

CATALOG NUMBER: LD6B60D010TE EU6B60709035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2433.5	2433.5	2433.5	2433.5	2433.5	2433.5	2433.5	2433.5	2433.5	2433.5	2433.5
2.5°	2450.7	2450.7	2447.2	2436.9	2440.3	2436.9	2440.3	2436.9	2426.6	2436.9	2426.6
5°	2464.4	2467.9	2461.0	2447.2	2450.7	2447.2	2447.2	2443.8	2433.5	2440.3	2433.5
7.5°	2478.2	2474.8	2471.3	2457.6	2461.0	2457.6	2457.6	2450.7	2440.3	2447.2	2436.9
10°	2485.1	2485.1	2478.2	2464.4	2464.4	2461.0	2464.4	2461.0	2447.2	2457.6	2450.7
12.5°	2485.1	2481.6	2481.6	2464.4	2467.9	2464.4	2467.9	2461.0	2450.7	2457.6	2454.1
15°	2474.8	2474.8	2471.3	2454.1	2457.6	2457.6	2461.0	2454.1	2443.8	2454.1	2447.2
17.5°	2454.1	2454.1	2450.7	2436.9	2443.8	2443.8	2447.2	2440.3	2430.0	2436.9	2436.9
20°	2412.8	2416.2	2416.2	2405.9	2412.8	2412.8	2416.2	2412.8	2409.4	2412.8	2405.9
22.5°	2364.6	2371.5	2371.5	2361.2	2368.1	2368.1	2378.4	2374.9	2368.1	2371.5	2368.1
25°	2292.3	2299.2	2306.1	2299.2	2306.1	2306.1	2316.4	2313.0	2306.1	2313.0	2302.7
27.5°	2209.7	2213.2	2220.1	2213.2	2223.5	2220.1	2230.4	2226.9	2216.6	2226.9	2223.5
30°	2092.7	2106.5	2116.8	2106.5	2116.8	2116.8	2123.7	2120.2	2116.8	2113.4	2113.4
32.5°	1961.9	1975.7	1975.7	1972.2	1979.1	1979.1	1982.6	1975.7	1972.2	1975.7	1979.1
35°	1800.1	1807.0	1813.9	1810.5	1813.9	1817.3	1813.9	1817.3	1807.0	1810.5	1810.5
37.5°	1624.6	1631.5	1631.5	1621.2	1628.0	1628.0	1621.2	1621.2	1614.3	1621.2	1607.4
40°	1438.7	1431.9	1435.3	1428.4	1421.5	1421.5	1418.1	1404.3	1397.4	1400.9	1404.3
42.5°	1256.3	1256.3	1246.0	1228.8	1211.6	1211.6	1201.2	1194.4	1180.6	1187.5	1184.0
45°	1101.4	1084.2	1070.4	1042.9	1032.6	1025.7	1008.5	991.3	984.4	987.8	984.4
47.5°	953.4	939.7	905.2	867.4	857.0	846.7	826.1	805.4	798.5	791.6	791.6
50°	829.5	805.4	767.6	726.3	709.0	691.8	664.3	643.6	629.9	633.3	633.3
52.5°	715.9	688.4	643.6	592.0	571.4	550.7	526.6	502.5	492.2	488.8	488.8
55°	616.1	585.1	540.4	481.9	464.7	440.6	409.6	382.1	368.3	364.8	371.7
57.5°	526.6	499.1	447.5	388.9	368.3	344.2	313.2	289.1	271.9	268.5	271.9
60°	454.3	416.5	371.7	316.7	289.1	268.5	234.1	213.4	196.2	189.3	192.7
62.5°	382.1	347.6	302.9	247.8	227.2	206.5	175.5	151.4	137.7	134.2	137.7
65°	327.0	292.6	251.3	203.1	182.4	161.8	134.2	110.1	99.8	96.4	99.8
67.5°	271.9	240.9	206.5	161.8	144.6	127.4	99.8	82.6	68.8	65.4	68.8
70°	220.3	192.7	158.3	127.4	110.1	96.4	75.7	58.5	48.2	44.7	48.2
72.5°	165.2	144.6	120.5	92.9	82.6	72.3	55.1	41.3	34.4	31.0	34.4
75°	120.5	103.3	86.0	65.4	58.5	51.6	37.9	27.5	24.1	20.7	24.1
77.5°	82.6	72.3	58.5	44.7	37.9	34.4	24.1	20.7	17.2	13.8	13.8
80°	55.1	48.2	37.9	31.0	27.5	24.1	17.2	13.8	10.3	10.3	10.3
82.5°	34.4	27.5	24.1	17.2	13.8	13.8	10.3	6.9	6.9	6.9	6.9
85°	20.7	17.2	13.8	10.3	6.9	6.9	3.4	3.4	3.4	3.4	3.4
87.5°	10.3	6.9	6.9	3.4	3.4	3.4	3.4	3.4	0.0	0.0	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: P252734

CATALOG NUMBER: LD6B60D010TE EU6B60709035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2433.5	2433.5	2433.5	2433.5	2433.5	2433.5	2433.5	2433.5	2433.5	2433.5	2433.5
2.5°	2433.5	2426.6	2426.6	2430.0	2433.5	2436.9	2430.0	2426.6	2426.6	2436.9	2430.0
5°	2433.5	2430.0	2430.0	2430.0	2436.9	2440.3	2433.5	2430.0	2433.5	2443.8	2440.3
7.5°	2443.8	2436.9	2440.3	2440.3	2443.8	2450.7	2443.8	2440.3	2443.8	2454.1	2447.2
10°	2450.7	2443.8	2447.2	2443.8	2454.1	2457.6	2450.7	2447.2	2450.7	2464.4	2461.0
12.5°	2454.1	2450.7	2450.7	2447.2	2457.6	2461.0	2454.1	2450.7	2454.1	2464.4	2461.0
15°	2447.2	2443.8	2443.8	2443.8	2450.7	2457.6	2447.2	2443.8	2443.8	2454.1	2450.7
17.5°	2433.5	2426.6	2426.6	2426.6	2430.0	2433.5	2423.1	2419.7	2416.2	2426.6	2423.1
20°	2409.4	2402.5	2395.6	2395.6	2399.0	2399.0	2392.2	2381.8	2381.8	2385.3	2378.4
22.5°	2364.6	2361.2	2354.3	2350.9	2357.7	2354.3	2340.5	2330.2	2326.8	2330.2	2323.3
25°	2302.7	2295.8	2292.3	2288.9	2292.3	2288.9	2275.1	2261.4	2261.4	2261.4	2251.0
27.5°	2216.6	2209.7	2206.3	2206.3	2209.7	2202.8	2189.1	2175.3	2168.4	2168.4	2158.1
30°	2106.5	2106.5	2103.0	2099.6	2096.1	2096.1	2075.5	2061.7	2054.8	2058.3	2051.4
32.5°	1972.2	1968.8	1965.4	1955.0	1958.5	1955.0	1937.8	1927.5	1917.2	1910.3	1906.8
35°	1800.1	1800.1	1796.7	1796.7	1796.7	1793.3	1776.0	1765.7	1758.8	1755.4	1745.1
37.5°	1610.8	1607.4	1603.9	1603.9	1603.9	1603.9	1593.6	1583.3	1583.3	1579.9	1573.0
40°	1397.4	1400.9	1404.3	1400.9	1411.2	1421.5	1407.8	1400.9	1397.4	1407.8	1394.0
42.5°	1190.9	1187.5	1204.7	1208.1	1208.1	1225.3	1228.8	1232.2	1228.8	1235.7	1235.7
45°	991.3	987.8	1005.0	1011.9	1029.1	1049.8	1060.1	1077.3	1084.2	1091.1	1084.2
47.5°	802.0	815.7	829.5	846.7	860.5	894.9	915.6	932.8	939.7	950.0	950.0
50°	643.6	657.4	681.5	695.3	712.5	753.8	788.2	812.3	826.1	836.4	833.0
52.5°	495.6	519.7	550.7	564.5	588.6	636.8	674.6	702.2	719.4	729.7	733.1
55°	382.1	402.7	433.7	454.3	478.4	530.1	578.2	609.2	626.4	640.2	647.1
57.5°	282.2	306.3	340.8	358.0	385.5	444.0	485.3	523.2	543.8	561.0	564.5
60°	206.5	230.6	261.6	282.2	309.8	368.3	416.5	450.9	475.0	488.8	495.6
62.5°	148.0	172.1	203.1	223.7	247.8	299.4	347.6	382.1	406.1	423.4	433.7
65°	106.7	130.8	161.8	179.0	199.6	247.8	292.6	327.0	351.1	371.7	378.6
67.5°	79.2	96.4	123.9	141.1	161.8	199.6	237.5	268.5	292.6	309.8	316.7
70°	58.5	72.3	96.4	106.7	120.5	154.9	185.9	213.4	234.1	247.8	254.7
72.5°	41.3	51.6	68.8	79.2	89.5	117.0	141.1	161.8	175.5	189.3	196.2
75°	27.5	34.4	48.2	55.1	62.0	82.6	99.8	117.0	127.4	137.7	141.1
77.5°	17.2	24.1	34.4	37.9	44.7	55.1	68.8	79.2	86.0	92.9	99.8
80°	10.3	13.8	20.7	24.1	27.5	37.9	44.7	51.6	58.5	65.4	68.8
82.5°	6.9	10.3	13.8	13.8	17.2	20.7	27.5	34.4	37.9	41.3	44.7
85°	3.4	3.4	6.9	6.9	10.3	10.3	13.8	17.2	20.7	24.1	27.5
87.5°	3.4	3.4	3.4	3.4	6.9	6.9	10.3	10.3	10.3	13.8	13.8
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: P252734

CATALOG NUMBER: LD6B60D010TE EU6B60709035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2433.5	2433.5	2433.5	2433.5	2433.5	2433.5	2433.5	2433.5
2.5°	2423.1	2433.5	2423.1	2430.0	2426.6	2426.6	2423.1	2426.6
5°	2433.5	2447.2	2433.5	2443.8	2436.9	2436.9	2436.9	2440.3
7.5°	2443.8	2457.6	2447.2	2457.6	2454.1	2450.7	2450.7	2457.6
10°	2454.1	2464.4	2457.6	2467.9	2464.4	2461.0	2461.0	2467.9
12.5°	2454.1	2467.9	2461.0	2471.3	2467.9	2464.4	2464.4	2467.9
15°	2443.8	2461.0	2450.7	2461.0	2457.6	2454.1	2454.1	2461.0
17.5°	2412.8	2426.6	2419.7	2426.6	2426.6	2423.1	2426.6	2430.0
20°	2371.5	2381.8	2374.9	2381.8	2381.8	2374.9	2378.4	2381.8
22.5°	2313.0	2323.3	2316.4	2323.3	2319.9	2316.4	2316.4	2313.0
25°	2240.7	2254.5	2244.2	2251.0	2244.2	2237.3	2237.3	2240.7
27.5°	2151.2	2161.5	2147.8	2154.7	2147.8	2140.9	2140.9	2137.4
30°	2034.2	2037.6	2027.3	2034.2	2027.3	2023.9	2017.0	2017.0
32.5°	1893.1	1896.5	1886.2	1886.2	1879.3	1879.3	1865.5	1875.9
35°	1727.9	1731.3	1727.9	1724.4	1714.1	1710.6	1707.2	1707.2
37.5°	1555.8	1555.8	1545.4	1542.0	1535.1	1528.2	1531.7	1521.3
40°	1380.2	1376.8	1366.5	1369.9	1366.5	1356.1	1352.7	1349.2
42.5°	1215.0	1215.0	1204.7	1208.1	1201.2	1197.8	1187.5	1190.9
45°	1070.4	1070.4	1060.1	1060.1	1056.7	1046.4	1049.8	1042.9
47.5°	939.7	939.7	936.2	936.2	925.9	922.4	922.4	922.4
50°	826.1	826.1	826.1	826.1	822.6	819.2	815.7	819.2
52.5°	729.7	736.6	733.1	733.1	729.7	726.3	722.8	722.8
55°	643.6	647.1	647.1	650.5	647.1	643.6	647.1	643.6
57.5°	567.9	574.8	574.8	574.8	574.8	574.8	571.4	567.9
60°	502.5	506.0	506.0	509.4	509.4	509.4	506.0	506.0
62.5°	437.1	444.0	447.5	447.5	450.9	447.5	447.5	447.5
65°	385.5	392.4	395.8	392.4	395.8	395.8	392.4	392.4
67.5°	323.5	330.4	330.4	330.4	330.4	333.9	330.4	330.4
70°	261.6	268.5	265.0	268.5	268.5	268.5	268.5	268.5
72.5°	199.6	203.1	206.5	206.5	210.0	206.5	206.5	206.5
75°	144.6	151.4	151.4	151.4	151.4	154.9	154.9	154.9
77.5°	103.3	106.7	106.7	110.1	110.1	110.1	110.1	113.6
80°	72.3	72.3	75.7	75.7	79.2	79.2	79.2	79.2
82.5°	48.2	51.6	51.6	51.6	51.6	51.6	51.6	51.6
85°	27.5	31.0	31.0	31.0	31.0	34.4	34.4	34.4
87.5°	17.2	17.2	17.2	17.2	17.2	17.2	13.8	13.8
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)