

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: P252732

Luminaire Tested: **LD6B60D010TE EU6B60709027 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252732
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 EU6B60709027 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4579.0 lumens
Efficiency: N/A
Efficacy: 73.3 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

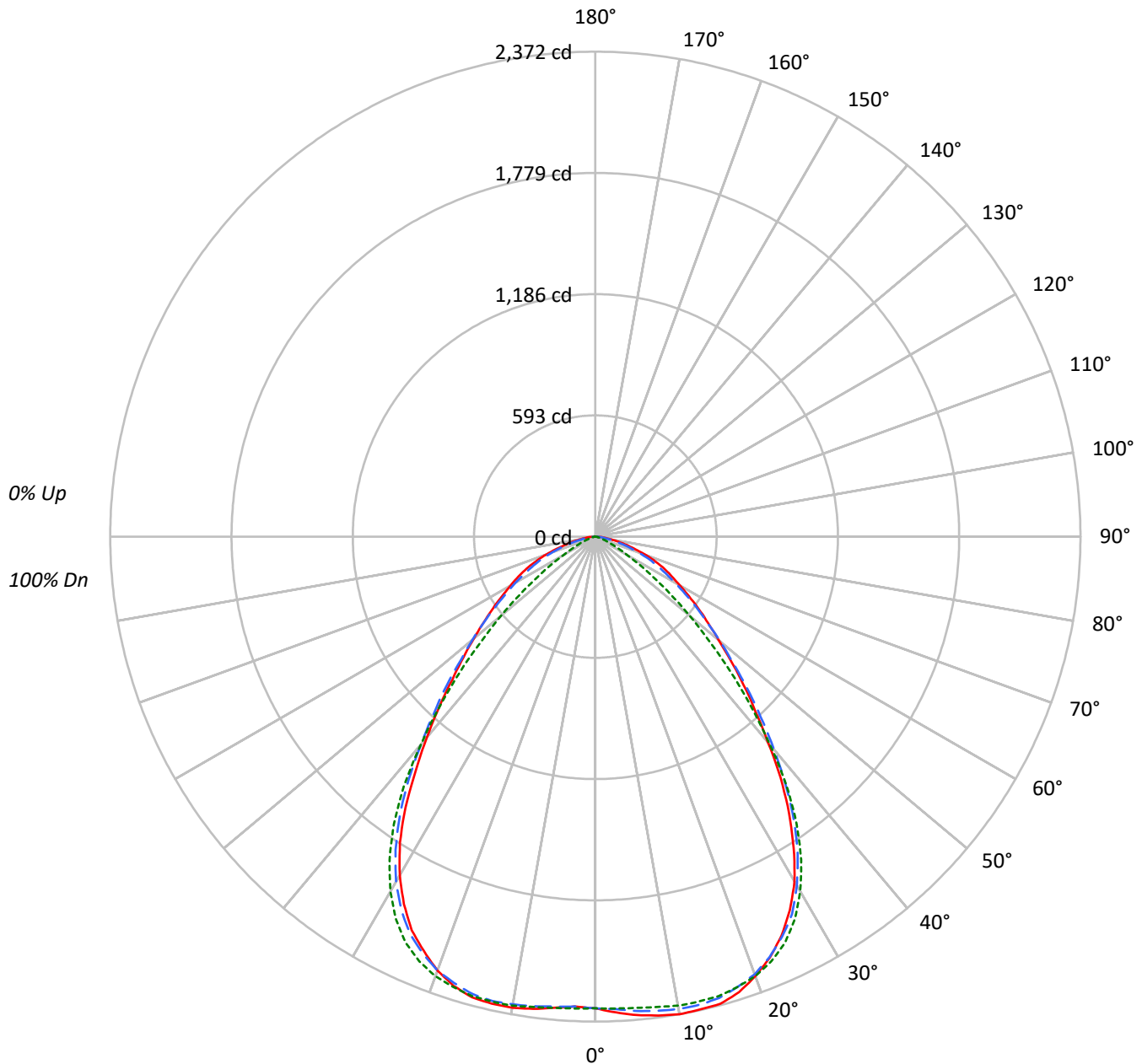
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	150510	150510	150510
5°	153862	151511	151511
10°	157158	154342	154992
15°	159784	157143	157582
20°	158809	158809	156775
25°	155027	157849	152918
30°	146757	150930	144053
35°	131500	136701	128904
40°	111720	113108	108935
45°	94534	86405	91222
50°	79817	60938	78822
55°	70146	39344	69406
60°	62161	23421	62592
65°	57427	14110	57427
70°	49786	8088	48546
75°	39474	4941	37004
80°	29418	3682	28216
85°	26873	2470	24403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.1	4.9
10°-20°	657.4	14.4
20°-30°	988.6	21.6
30°-40°	1039.4	22.7
40°-50°	776.5	17.0
50°-60°	483.4	10.6
60°-70°	274.9	6.0
70°-80°	113.2	2.5
80°-90°	23.4	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°	1868.1	40.8
0°-40°	2907.5	63.5
0°-60°	4167.4	91.0
0°-90°	4579.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4579.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2307	2307	2307	2307	2307	
5°	2349	2330	2314	2307	2314	225
15°	2366	2336	2327	2317	2333	665
25°	2154	2160	2193	2144	2124	986
35°	1651	1694	1716	1667	1618	1025
45°	1025	1047	936	1028	989	794
55°	617	604	346	594	610	555
65°	372	333	91	333	372	366
75°	157	124	20	121	147	170
85°	36	23	3	20	33	40
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°	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0
2.5°	2329.8	2326.6	2329.8	2323.3	2320.1	2320.1	2323.3	2316.8	2313.5	2316.8	2313.5
5°	2349.4	2342.9	2346.2	2342.9	2336.4	2336.4	2339.6	2329.8	2329.8	2333.1	2329.8
7.5°	2362.5	2362.5	2362.5	2355.9	2352.7	2349.4	2355.9	2346.2	2342.9	2342.9	2339.6
10°	2372.3	2369.0	2372.3	2365.7	2359.2	2355.9	2362.5	2355.9	2349.4	2355.9	2346.2
12.5°	2369.0	2369.0	2369.0	2365.7	2359.2	2355.9	2362.5	2352.7	2349.4	2352.7	2346.2
15°	2365.7	2355.9	2359.2	2355.9	2346.2	2346.2	2349.4	2339.6	2333.1	2342.9	2336.4
17.5°	2336.4	2329.8	2333.1	2326.6	2320.1	2316.8	2320.1	2316.8	2310.3	2316.8	2310.3
20°	2287.4	2287.4	2290.7	2284.2	2277.6	2274.4	2280.9	2274.4	2267.8	2277.6	2277.6
22.5°	2228.7	2228.7	2228.7	2225.4	2222.2	2222.2	2222.2	2218.9	2215.6	2222.2	2225.4
25°	2153.6	2150.4	2153.6	2156.9	2153.6	2150.4	2153.6	2153.6	2147.1	2160.2	2160.2
27.5°	2059.0	2059.0	2065.5	2062.3	2062.3	2059.0	2065.5	2065.5	2062.3	2072.1	2081.8
30°	1948.1	1941.5	1948.1	1948.1	1951.3	1951.3	1954.6	1954.6	1954.6	1964.4	1970.9
32.5°	1804.5	1807.7	1817.5	1814.3	1811.0	1820.8	1820.8	1827.3	1830.6	1837.1	1840.4
35°	1651.1	1654.4	1654.4	1657.6	1664.2	1657.6	1674.0	1670.7	1674.0	1687.0	1693.5
37.5°	1488.0	1478.2	1494.5	1488.0	1491.2	1491.2	1497.8	1501.0	1510.8	1527.1	1527.1
40°	1311.8	1315.0	1321.5	1324.8	1328.1	1328.1	1328.1	1337.9	1341.1	1360.7	1357.4
42.5°	1158.4	1158.4	1164.9	1168.2	1168.2	1168.2	1168.2	1178.0	1184.5	1191.0	1197.6
45°	1024.6	1014.8	1021.3	1021.3	1027.9	1024.6	1031.1	1037.7	1040.9	1050.7	1047.4
47.5°	897.3	894.1	897.3	900.6	897.3	900.6	903.9	907.1	910.4	910.4	910.4
50°	786.4	786.4	789.7	792.9	792.9	792.9	792.9	796.2	796.2	802.7	796.2
52.5°	695.0	698.3	698.3	695.0	698.3	698.3	701.6	701.6	698.3	698.3	688.5
55°	616.7	613.5	616.7	613.5	616.7	616.7	613.5	613.5	610.2	606.9	603.7
57.5°	541.7	541.7	541.7	541.7	538.4	541.7	538.4	535.1	535.1	528.6	518.8
60°	476.4	476.4	476.4	476.4	476.4	473.1	476.4	473.1	466.6	460.1	447.0
62.5°	420.9	417.7	420.9	417.7	417.7	414.4	414.4	411.1	404.6	398.1	385.0
65°	372.0	375.3	372.0	372.0	368.7	365.5	365.5	362.2	352.4	345.9	332.8
67.5°	319.8	316.5	316.5	316.5	313.3	313.3	313.3	306.7	300.2	290.4	277.4
70°	261.0	261.0	261.0	257.8	257.8	254.5	254.5	251.3	244.7	238.2	221.9
72.5°	205.6	205.6	205.6	199.0	202.3	199.0	199.0	192.5	189.3	179.5	169.7
75°	156.6	156.6	153.4	153.4	150.1	146.8	146.8	143.6	140.3	133.8	124.0
77.5°	114.2	114.2	114.2	110.9	107.7	104.4	104.4	101.2	97.9	94.6	88.1
80°	78.3	78.3	78.3	78.3	75.1	71.8	71.8	68.5	68.5	65.3	58.7
82.5°	52.2	52.2	52.2	52.2	48.9	48.9	48.9	45.7	42.4	42.4	35.9
85°	35.9	35.9	32.6	32.6	32.6	32.6	29.4	29.4	26.1	22.8	22.8
87.5°	19.6	19.6	19.6	19.6	16.3	16.3	16.3	16.3	13.1	13.1	9.8
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°	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0
2.5°	2323.3	2323.3	2320.1	2310.3	2313.5	2310.3	2313.5	2310.3	2300.5	2310.3	2300.5
5°	2336.4	2339.6	2333.1	2320.1	2323.3	2320.1	2320.1	2316.8	2307.0	2313.5	2307.0
7.5°	2349.4	2346.2	2342.9	2329.8	2333.1	2329.8	2329.8	2323.3	2313.5	2320.1	2310.3
10°	2355.9	2355.9	2349.4	2336.4	2336.4	2333.1	2336.4	2333.1	2320.1	2329.8	2323.3
12.5°	2355.9	2352.7	2352.7	2336.4	2339.6	2336.4	2339.6	2333.1	2323.3	2329.8	2326.6
15°	2346.2	2346.2	2342.9	2326.6	2329.8	2329.8	2333.1	2326.6	2316.8	2326.6	2320.1
17.5°	2326.6	2326.6	2323.3	2310.3	2316.8	2316.8	2320.1	2313.5	2303.7	2310.3	2310.3
20°	2287.4	2290.7	2290.7	2280.9	2287.4	2287.4	2290.7	2287.4	2284.2	2287.4	2280.9
22.5°	2241.7	2248.3	2248.3	2238.5	2245.0	2245.0	2254.8	2251.5	2245.0	2248.3	2245.0
25°	2173.2	2179.7	2186.3	2179.7	2186.3	2186.3	2196.1	2192.8	2186.3	2192.8	2183.0
27.5°	2094.9	2098.2	2104.7	2098.2	2108.0	2104.7	2114.5	2111.2	2101.4	2111.2	2108.0
30°	1984.0	1997.0	2006.8	1997.0	2006.8	2006.8	2013.3	2010.1	2006.8	2003.5	2003.5
32.5°	1860.0	1873.0	1873.0	1869.7	1876.3	1876.3	1879.5	1873.0	1869.7	1873.0	1876.3
35°	1706.6	1713.1	1719.6	1716.4	1719.6	1722.9	1719.6	1722.9	1713.1	1716.4	1716.4
37.5°	1540.2	1546.7	1546.7	1536.9	1543.4	1543.4	1536.9	1536.9	1530.4	1536.9	1523.9
40°	1364.0	1357.4	1360.7	1354.2	1347.7	1347.7	1344.4	1331.3	1324.8	1328.1	1331.3
42.5°	1191.0	1191.0	1181.2	1164.9	1148.6	1148.6	1138.8	1132.3	1119.2	1125.8	1122.5
45°	1044.2	1027.9	1014.8	988.7	978.9	972.4	956.1	939.8	933.2	936.5	933.2
47.5°	903.9	890.8	858.2	822.3	812.5	802.7	783.1	763.6	757.0	750.5	750.5
50°	786.4	763.6	727.7	688.5	672.2	655.9	629.8	610.2	597.1	600.4	600.4
52.5°	678.7	652.6	610.2	561.2	541.7	522.1	499.3	476.4	466.6	463.4	463.4
55°	584.1	554.7	512.3	456.8	440.5	417.7	388.3	362.2	349.1	345.9	352.4
57.5°	499.3	473.1	424.2	368.7	349.1	326.3	296.9	274.1	257.8	254.5	257.8
60°	430.7	394.8	352.4	300.2	274.1	254.5	221.9	202.3	186.0	179.5	182.7
62.5°	362.2	329.6	287.2	234.9	215.4	195.8	166.4	143.6	130.5	127.3	130.5
65°	310.0	277.4	238.2	192.5	172.9	153.4	127.3	104.4	94.6	91.4	94.6
67.5°	257.8	228.4	195.8	153.4	137.0	120.7	94.6	78.3	65.3	62.0	65.3
70°	208.8	182.7	150.1	120.7	104.4	91.4	71.8	55.5	45.7	42.4	45.7
72.5°	156.6	137.0	114.2	88.1	78.3	68.5	52.2	39.2	32.6	29.4	32.6
75°	114.2	97.9	81.6	62.0	55.5	48.9	35.9	26.1	22.8	19.6	22.8
77.5°	78.3	68.5	55.5	42.4	35.9	32.6	22.8	19.6	16.3	13.1	13.1
80°	52.2	45.7	35.9	29.4	26.1	22.8	16.3	13.1	9.8	9.8	9.8
82.5°	32.6	26.1	22.8	16.3	13.1	13.1	9.8	6.5	6.5	6.5	6.5
85°	19.6	16.3	13.1	9.8	6.5	6.5	3.3	3.3	3.3	3.3	3.3
87.5°	9.8	6.5	6.5	3.3	3.3	3.3	3.3	3.3	0.0	0.0	3.3
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°	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0
2.5°	2307.0	2300.5	2300.5	2303.7	2307.0	2310.3	2303.7	2300.5	2300.5	2310.3	2303.7
5°	2307.0	2303.7	2303.7	2303.7	2310.3	2313.5	2307.0	2303.7	2307.0	2316.8	2313.5
7.5°	2316.8	2310.3	2313.5	2313.5	2316.8	2323.3	2316.8	2313.5	2316.8	2326.6	2320.1
10°	2323.3	2316.8	2320.1	2316.8	2326.6	2329.8	2323.3	2320.1	2323.3	2336.4	2333.1
12.5°	2326.6	2323.3	2323.3	2320.1	2329.8	2333.1	2326.6	2323.3	2326.6	2336.4	2333.1
15°	2320.1	2316.8	2316.8	2316.8	2323.3	2329.8	2320.1	2316.8	2316.8	2326.6	2323.3
17.5°	2307.0	2300.5	2300.5	2300.5	2303.7	2307.0	2297.2	2293.9	2290.7	2300.5	2297.2
20°	2284.2	2277.6	2271.1	2271.1	2274.4	2274.4	2267.8	2258.1	2258.1	2261.3	2254.8
22.5°	2241.7	2238.5	2231.9	2228.7	2235.2	2231.9	2218.9	2209.1	2205.8	2209.1	2202.6
25°	2183.0	2176.5	2173.2	2169.9	2173.2	2169.9	2156.9	2143.8	2143.8	2143.8	2134.1
27.5°	2101.4	2094.9	2091.6	2091.6	2094.9	2088.4	2075.3	2062.3	2055.7	2055.7	2046.0
30°	1997.0	1997.0	1993.7	1990.5	1987.2	1987.2	1967.6	1954.6	1948.1	1951.3	1944.8
32.5°	1869.7	1866.5	1863.2	1853.4	1856.7	1853.4	1837.1	1827.3	1817.5	1811.0	1807.7
35°	1706.6	1706.6	1703.3	1703.3	1703.3	1700.1	1683.7	1674.0	1667.4	1664.2	1654.4
37.5°	1527.1	1523.9	1520.6	1520.6	1520.6	1520.6	1510.8	1501.0	1501.0	1497.8	1491.2
40°	1324.8	1328.1	1331.3	1328.1	1337.9	1347.7	1334.6	1328.1	1324.8	1334.6	1321.5
42.5°	1129.0	1125.8	1142.1	1145.3	1145.3	1161.7	1164.9	1168.2	1164.9	1171.4	1171.4
45°	939.8	936.5	952.8	959.3	975.7	995.2	1005.0	1021.3	1027.9	1034.4	1027.9
47.5°	760.3	773.4	786.4	802.7	815.8	848.4	868.0	884.3	890.8	900.6	900.6
50°	610.2	623.2	646.1	659.1	675.5	714.6	747.2	770.1	783.1	792.9	789.7
52.5°	469.9	492.7	522.1	535.1	558.0	603.7	639.6	665.7	682.0	691.8	695.0
55°	362.2	381.8	411.1	430.7	453.6	502.5	548.2	577.6	593.9	606.9	613.5
57.5°	267.6	290.4	323.0	339.4	365.5	420.9	460.1	496.0	515.6	531.9	535.1
60°	195.8	218.6	248.0	267.6	293.7	349.1	394.8	427.5	450.3	463.4	469.9
62.5°	140.3	163.2	192.5	212.1	234.9	283.9	329.6	362.2	385.0	401.4	411.1
65°	101.2	124.0	153.4	169.7	189.3	234.9	277.4	310.0	332.8	352.4	358.9
67.5°	75.1	91.4	117.5	133.8	153.4	189.3	225.2	254.5	277.4	293.7	300.2
70°	55.5	68.5	91.4	101.2	114.2	146.8	176.2	202.3	221.9	234.9	241.5
72.5°	39.2	48.9	65.3	75.1	84.8	110.9	133.8	153.4	166.4	179.5	186.0
75°	26.1	32.6	45.7	52.2	58.7	78.3	94.6	110.9	120.7	130.5	133.8
77.5°	16.3	22.8	32.6	35.9	42.4	52.2	65.3	75.1	81.6	88.1	94.6
80°	9.8	13.1	19.6	22.8	26.1	35.9	42.4	48.9	55.5	62.0	65.3
82.5°	6.5	9.8	13.1	13.1	16.3	19.6	26.1	32.6	35.9	39.2	42.4
85°	3.3	3.3	6.5	6.5	9.8	9.8	13.1	16.3	19.6	22.8	26.1
87.5°	3.3	3.3	3.3	3.3	6.5	6.5	9.8	9.8	9.8	13.1	13.1
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: P252732

CATALOG NUMBER: LD6B60D010TE EU6B60709027 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0
2.5°	2297.2	2307.0	2297.2	2303.7	2300.5	2300.5	2297.2	2300.5
5°	2307.0	2320.1	2307.0	2316.8	2310.3	2310.3	2310.3	2313.5
7.5°	2316.8	2329.8	2320.1	2329.8	2326.6	2323.3	2323.3	2329.8
10°	2326.6	2336.4	2329.8	2339.6	2336.4	2333.1	2333.1	2339.6
12.5°	2326.6	2339.6	2333.1	2342.9	2339.6	2336.4	2336.4	2339.6
15°	2316.8	2333.1	2323.3	2333.1	2329.8	2326.6	2326.6	2333.1
17.5°	2287.4	2300.5	2293.9	2300.5	2300.5	2297.2	2300.5	2303.7
20°	2248.3	2258.1	2251.5	2258.1	2258.1	2251.5	2254.8	2258.1
22.5°	2192.8	2202.6	2196.1	2202.6	2199.3	2196.1	2196.1	2192.8
25°	2124.3	2137.3	2127.5	2134.1	2127.5	2121.0	2121.0	2124.3
27.5°	2039.4	2049.2	2036.2	2042.7	2036.2	2029.6	2029.6	2026.4
30°	1928.5	1931.7	1922.0	1928.5	1922.0	1918.7	1912.2	1912.2
32.5°	1794.7	1798.0	1788.2	1788.2	1781.6	1781.6	1768.6	1778.4
35°	1638.1	1641.3	1638.1	1634.8	1625.0	1621.8	1618.5	1618.5
37.5°	1474.9	1474.9	1465.1	1461.9	1455.3	1448.8	1452.1	1442.3
40°	1308.5	1305.2	1295.4	1298.7	1295.4	1285.7	1282.4	1279.1
42.5°	1151.9	1151.9	1142.1	1145.3	1138.8	1135.6	1125.8	1129.0
45°	1014.8	1014.8	1005.0	1005.0	1001.8	992.0	995.2	988.7
47.5°	890.8	890.8	887.6	887.6	877.8	874.5	874.5	874.5
50°	783.1	783.1	783.1	783.1	779.9	776.6	773.4	776.6
52.5°	691.8	698.3	695.0	695.0	691.8	688.5	685.2	685.2
55°	610.2	613.5	613.5	616.7	613.5	610.2	613.5	610.2
57.5°	538.4	544.9	544.9	544.9	544.9	544.9	541.7	538.4
60°	476.4	479.7	479.7	482.9	482.9	482.9	479.7	479.7
62.5°	414.4	420.9	424.2	424.2	427.5	424.2	424.2	424.2
65°	365.5	372.0	375.3	372.0	375.3	375.3	372.0	372.0
67.5°	306.7	313.3	313.3	313.3	313.3	316.5	313.3	313.3
70°	248.0	254.5	251.3	254.5	254.5	254.5	254.5	254.5
72.5°	189.3	192.5	195.8	195.8	199.0	195.8	195.8	195.8
75°	137.0	143.6	143.6	143.6	143.6	146.8	146.8	146.8
77.5°	97.9	101.2	101.2	104.4	104.4	104.4	104.4	107.7
80°	68.5	68.5	71.8	71.8	75.1	75.1	75.1	75.1
82.5°	45.7	48.9	48.9	48.9	48.9	48.9	48.9	48.9
85°	26.1	29.4	29.4	29.4	29.4	32.6	32.6	32.6
87.5°	16.3	16.3	16.3	16.3	16.3	16.3	13.1	13.1
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)