

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: P252531

Luminaire Tested: **LD6B70D010TE EU6B60708027 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252531
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 EU6B60708027 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5757.0 lumens
Efficiency: N/A
Efficacy: 72.5 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

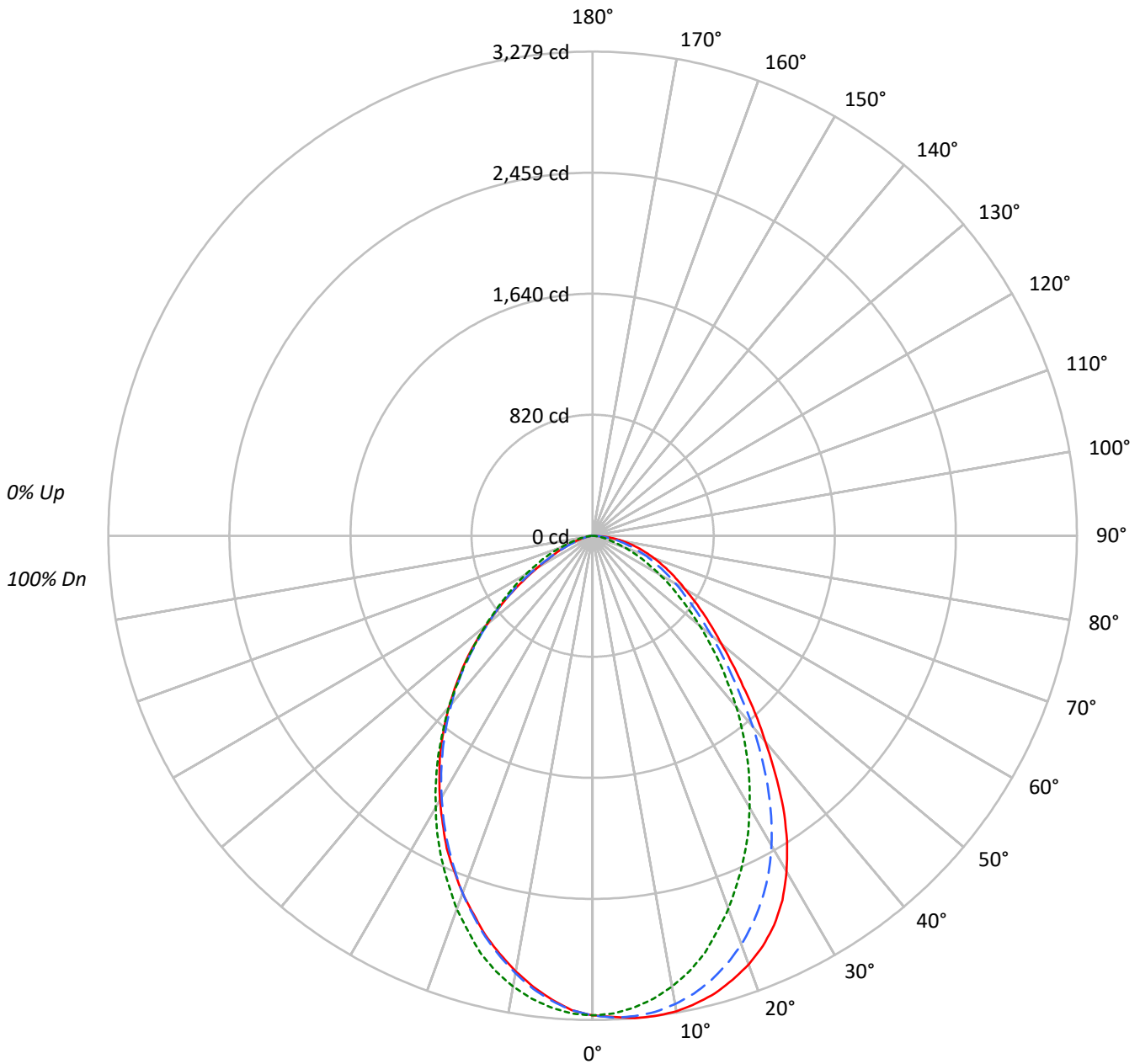
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88	88	88	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77	77	77	77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67	67	67	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59	59	59	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53	53	53	53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47	47	47	47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43	43	43	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39	39	39	39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35	35	35	35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33	33	33	33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	211889	211889	211889
5°	214767	210039	206496
10°	216654	205293	198423
15°	216621	197729	189199
20°	214524	186656	178825
25°	209441	174045	168200
30°	197773	160053	155639
35°	179271	145143	143343
40°	154823	129077	128694
45°	132768	112369	113199
50°	115371	96148	94767
55°	103643	81065	75935
60°	94168	68281	55911
65°	88440	56408	41079
70°	84331	43892	30120
75°	80738	31836	20468
80°	76268	22016	13563
85°	67519	13474	6737



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.8	5.3
10°-20°	832.1	14.5
20°-30°	1155.2	20.1
30°-40°	1196.5	20.8
40°-50°	983.2	17.1
50°-60°	675.8	11.7
60°-70°	388.5	6.7
70°-80°	178.6	3.1
80°-90°	43.5	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°	2291.0	39.8
0°-40°	3487.5	60.6
0°-60°	5146.5	89.4
0°-90°	5757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5757.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3248	3248	3248	3248	3248	
5°	3279	3266	3207	3162	3153	313
15°	3207	3112	2928	2810	2801	903
25°	2910	2716	2418	2314	2337	1331
35°	2251	2066	1822	1768	1800	1396
45°	1439	1331	1218	1204	1227	1121
55°	911	826	713	672	668	820
65°	573	501	365	257	266	570
75°	320	253	126	81	81	338
85°	90	63	18	9	9	101
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°	3247.8	3247.8	3247.8	3247.8	3247.8	3247.8	3247.8	3247.8	3247.8	3247.8	3247.8
2.5°	3261.3	3288.4	3270.4	3265.8	3274.9	3274.9	3274.9	3261.3	3270.4	3256.8	3265.8
5°	3279.4	3301.9	3283.9	3274.9	3283.9	3288.4	3274.9	3265.8	3279.4	3261.3	3265.8
7.5°	3279.4	3301.9	3283.9	3279.4	3283.9	3283.9	3279.4	3261.3	3270.4	3252.3	3252.3
10°	3270.4	3288.4	3270.4	3261.3	3265.8	3261.3	3261.3	3238.8	3243.3	3220.7	3220.7
12.5°	3243.3	3265.8	3243.3	3234.3	3234.3	3234.3	3220.7	3202.7	3207.2	3180.1	3175.6
15°	3207.2	3225.2	3202.7	3193.7	3193.7	3189.2	3180.1	3153.1	3153.1	3126.0	3112.5
17.5°	3153.1	3171.1	3153.1	3139.5	3135.0	3126.0	3117.0	3089.9	3080.9	3049.3	3035.8
20°	3089.9	3103.5	3085.4	3071.9	3062.9	3053.8	3035.8	3008.7	2999.7	2968.1	2945.6
22.5°	3008.7	3026.8	2999.7	2986.2	2977.2	2963.6	2945.6	2918.5	2905.0	2864.4	2837.3
25°	2909.5	2918.5	2896.0	2882.4	2864.4	2855.4	2841.8	2805.7	2792.2	2747.1	2715.5
27.5°	2783.2	2792.2	2765.1	2756.1	2733.6	2724.5	2706.5	2674.9	2656.9	2611.8	2580.2
30°	2625.3	2634.3	2616.3	2602.8	2584.7	2566.7	2553.1	2521.6	2494.5	2449.4	2422.3
32.5°	2449.4	2462.9	2444.9	2426.8	2395.3	2399.8	2377.2	2345.6	2323.1	2282.5	2250.9
35°	2250.9	2259.9	2237.4	2232.9	2214.8	2196.8	2174.2	2151.7	2138.1	2093.0	2066.0
37.5°	2029.9	2052.4	2029.9	2011.8	2002.8	1989.3	1975.7	1944.2	1935.1	1908.1	1872.0
40°	1817.9	1831.4	1817.9	1799.8	1786.3	1786.3	1768.2	1750.2	1727.6	1700.6	1687.1
42.5°	1628.4	1619.4	1614.9	1605.9	1587.8	1583.3	1578.8	1556.2	1542.7	1515.6	1493.1
45°	1439.0	1443.5	1434.4	1429.9	1416.4	1407.4	1398.4	1380.3	1375.8	1348.7	1330.7
47.5°	1281.1	1276.6	1267.5	1267.5	1258.5	1249.5	1240.5	1226.9	1222.4	1199.9	1181.8
50°	1136.7	1141.2	1136.7	1132.2	1118.7	1114.2	1105.2	1096.1	1087.1	1064.6	1046.5
52.5°	1019.4	1014.9	1010.4	1010.4	996.9	992.4	983.4	974.3	965.3	942.8	929.2
55°	911.2	911.2	906.7	902.2	888.6	884.1	879.6	870.6	857.1	839.0	825.5
57.5°	812.0	812.0	807.4	802.9	793.9	793.9	784.9	775.9	766.8	748.8	730.8
60°	721.7	726.2	721.7	717.2	708.2	708.2	703.7	690.2	685.6	663.1	649.6
62.5°	645.0	645.0	645.0	640.5	636.0	627.0	627.0	613.5	604.5	590.9	572.9
65°	572.9	572.9	572.9	568.4	559.3	554.8	550.3	541.3	532.3	518.7	500.7
67.5°	505.2	505.2	505.2	500.7	491.7	487.2	482.7	478.1	464.6	451.1	433.0
70°	442.1	442.1	437.6	433.0	428.5	424.0	419.5	410.5	401.5	383.4	369.9
72.5°	378.9	378.9	378.9	369.9	365.4	365.4	356.4	351.8	342.8	324.8	311.2
75°	320.3	315.8	315.8	311.2	306.7	302.2	297.7	293.2	279.7	270.7	252.6
77.5°	261.6	261.6	257.1	252.6	252.6	248.1	243.6	234.6	230.1	216.5	203.0
80°	203.0	203.0	203.0	203.0	198.5	194.0	194.0	184.9	180.4	166.9	157.9
82.5°	153.4	148.9	148.9	148.9	144.3	139.8	139.8	135.3	130.8	121.8	112.8
85°	90.2	85.7	85.7	85.7	81.2	81.2	76.7	76.7	72.2	63.2	63.2
87.5°	27.1	27.1	31.6	31.6	27.1	27.1	27.1	27.1	27.1	22.6	22.6
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°	3247.8	3247.8	3247.8	3247.8	3247.8	3247.8	3247.8	3247.8	3247.8	3247.8	3247.8
2.5°	3256.8	3270.4	3252.3	3247.8	3265.8	3256.8	3252.3	3243.3	3247.8	3238.8	3225.2
5°	3252.3	3270.4	3247.8	3234.3	3256.8	3243.3	3234.3	3225.2	3225.2	3207.2	3198.2
7.5°	3238.8	3247.8	3225.2	3211.7	3225.2	3211.7	3202.7	3189.2	3184.6	3162.1	3148.6
10°	3202.7	3211.7	3184.6	3166.6	3180.1	3162.1	3148.6	3135.0	3126.0	3098.9	3080.9
12.5°	3153.1	3157.6	3126.0	3103.5	3112.5	3098.9	3076.4	3058.3	3049.3	3022.3	2999.7
15°	3085.4	3089.9	3053.8	3022.3	3031.3	3013.2	2986.2	2968.1	2954.6	2927.5	2896.0
17.5°	3004.2	2999.7	2959.1	2927.5	2932.0	2909.5	2882.4	2855.4	2837.3	2805.7	2783.2
20°	2914.0	2900.5	2855.4	2819.3	2823.8	2796.7	2765.1	2738.1	2715.5	2688.5	2656.9
22.5°	2801.2	2783.2	2742.6	2697.5	2702.0	2679.4	2634.3	2611.8	2589.2	2553.1	2526.1
25°	2679.4	2652.4	2611.8	2566.7	2566.7	2539.6	2503.5	2476.4	2453.9	2417.8	2386.2
27.5°	2535.1	2521.6	2467.4	2431.3	2426.8	2399.8	2368.2	2336.6	2309.5	2278.0	2246.4
30°	2377.2	2354.7	2314.1	2273.5	2264.4	2241.9	2210.3	2174.2	2156.2	2124.6	2097.5
32.5°	2210.3	2187.8	2142.6	2102.0	2097.5	2079.5	2052.4	2016.3	1998.3	1975.7	1957.7
35°	2020.9	2011.8	1966.7	1935.1	1935.1	1917.1	1890.0	1858.5	1844.9	1822.4	1799.8
37.5°	1840.4	1826.9	1786.3	1759.2	1759.2	1736.7	1709.6	1696.1	1682.5	1664.5	1651.0
40°	1651.0	1641.9	1610.4	1583.3	1587.8	1569.8	1551.7	1533.7	1524.7	1515.6	1502.1
42.5°	1475.0	1466.0	1443.5	1420.9	1420.9	1407.4	1389.3	1375.8	1366.8	1353.3	1348.7
45°	1317.2	1303.6	1285.6	1263.0	1263.0	1249.5	1240.5	1231.5	1226.9	1217.9	1204.4
47.5°	1163.8	1154.8	1136.7	1114.2	1114.2	1114.2	1096.1	1082.6	1082.6	1073.6	1069.1
50°	1033.0	1019.4	1005.9	987.9	987.9	978.9	965.3	951.8	951.8	947.3	938.3
52.5°	911.2	902.2	884.1	866.1	866.1	857.1	843.5	839.0	834.5	821.0	816.5
55°	807.4	798.4	784.9	762.3	757.8	753.3	739.8	730.8	726.2	712.7	712.7
57.5°	712.7	703.7	681.1	667.6	663.1	654.1	640.5	631.5	627.0	618.0	609.0
60°	631.5	618.0	599.9	581.9	577.4	568.4	554.8	545.8	541.3	523.3	514.2
62.5°	554.8	541.3	523.3	505.2	500.7	491.7	473.6	464.6	455.6	437.6	428.5
65°	482.7	469.1	451.1	433.0	424.0	419.5	401.5	387.9	378.9	365.4	347.3
67.5°	415.0	401.5	383.4	360.9	360.9	347.3	333.8	320.3	306.7	293.2	279.7
70°	351.8	338.3	320.3	302.2	297.7	288.7	275.2	257.1	248.1	230.1	216.5
72.5°	293.2	279.7	261.6	243.6	239.1	230.1	216.5	198.5	184.9	171.4	157.9
75°	239.1	225.5	207.5	194.0	189.5	180.4	166.9	148.9	135.3	126.3	112.8
77.5°	189.5	175.9	162.4	148.9	144.3	135.3	121.8	112.8	99.2	90.2	76.7
80°	144.3	135.3	121.8	112.8	108.3	99.2	90.2	76.7	67.7	58.6	54.1
82.5°	103.7	94.7	85.7	72.2	72.2	63.2	58.6	49.6	40.6	36.1	31.6
85°	58.6	49.6	45.1	40.6	36.1	36.1	31.6	27.1	22.6	18.0	18.0
87.5°	18.0	18.0	13.5	13.5	13.5	13.5	9.0	9.0	9.0	9.0	9.0
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°	3247.8	3247.8	3247.8	3247.8	3247.8	3247.8	3247.8	3247.8	3247.8	3247.8	3247.8
2.5°	3225.2	3229.8	3220.7	3229.8	3220.7	3225.2	3216.2	3225.2	3216.2	3225.2	3207.2
5°	3193.7	3193.7	3180.1	3189.2	3180.1	3184.6	3166.6	3171.1	3162.1	3171.1	3153.1
7.5°	3139.5	3144.1	3121.5	3130.5	3117.0	3117.0	3103.5	3108.0	3094.4	3098.9	3085.4
10°	3076.4	3071.9	3049.3	3058.3	3040.3	3040.3	3026.8	3026.8	3008.7	3013.2	2995.2
12.5°	2986.2	2981.7	2954.6	2963.6	2945.6	2945.6	2932.0	2932.0	2914.0	2923.0	2905.0
15°	2882.4	2877.9	2850.8	2855.4	2837.3	2837.3	2819.3	2823.8	2810.2	2819.3	2801.2
17.5°	2765.1	2760.6	2733.6	2738.1	2715.5	2720.0	2706.5	2702.0	2693.0	2697.5	2683.9
20°	2643.3	2634.3	2607.3	2611.8	2602.8	2589.2	2580.2	2584.7	2575.7	2584.7	2571.2
22.5°	2517.0	2499.0	2476.4	2476.4	2467.4	2467.4	2453.9	2462.9	2444.9	2458.4	2449.4
25°	2372.7	2359.2	2341.1	2350.1	2332.1	2332.1	2318.6	2323.1	2314.1	2323.1	2314.1
27.5°	2232.9	2223.8	2196.8	2205.8	2192.3	2196.8	2183.2	2187.8	2183.2	2192.3	2183.2
30°	2084.0	2079.5	2061.5	2061.5	2056.9	2052.4	2047.9	2047.9	2043.4	2056.9	2047.9
32.5°	1944.2	1930.6	1912.6	1926.1	1903.6	1917.1	1908.1	1917.1	1908.1	1917.1	1912.6
35°	1799.8	1795.3	1772.8	1777.3	1772.8	1772.8	1768.2	1768.2	1768.2	1781.8	1781.8
37.5°	1646.5	1641.9	1628.4	1632.9	1623.9	1619.4	1619.4	1628.4	1628.4	1637.4	1637.4
40°	1497.6	1502.1	1488.6	1488.6	1484.1	1484.1	1484.1	1493.1	1488.6	1497.6	1493.1
42.5°	1348.7	1348.7	1335.2	1339.7	1335.2	1339.7	1339.7	1348.7	1348.7	1353.3	1348.7
45°	1208.9	1208.9	1204.4	1208.9	1199.9	1204.4	1199.9	1208.9	1204.4	1208.9	1208.9
47.5°	1069.1	1069.1	1069.1	1064.6	1064.6	1064.6	1064.6	1064.6	1060.0	1069.1	1064.6
50°	938.3	942.8	938.3	938.3	933.7	938.3	933.7	933.7	924.7	929.2	929.2
52.5°	821.0	821.0	812.0	812.0	812.0	807.4	807.4	807.4	802.9	802.9	793.9
55°	708.2	708.2	699.2	699.2	694.7	690.2	685.6	685.6	672.1	672.1	658.6
57.5°	604.5	599.9	586.4	586.4	577.4	572.9	568.4	563.9	554.8	545.8	541.3
60°	509.7	500.7	491.7	487.2	478.1	469.1	460.1	451.1	442.1	437.6	433.0
62.5°	419.5	406.0	397.0	392.4	383.4	369.9	360.9	351.8	342.8	338.3	329.3
65°	338.3	324.8	311.2	306.7	297.7	288.7	275.2	266.1	257.1	252.6	252.6
67.5°	266.1	252.6	234.6	234.6	225.5	216.5	207.5	198.5	194.0	198.5	198.5
70°	198.5	189.5	175.9	171.4	162.4	153.4	148.9	148.9	148.9	153.4	148.9
72.5°	148.9	135.3	126.3	121.8	117.3	112.8	112.8	112.8	108.3	112.8	112.8
75°	103.7	94.7	85.7	85.7	81.2	81.2	81.2	81.2	81.2	81.2	81.2
77.5°	72.2	63.2	58.6	58.6	58.6	54.1	54.1	54.1	54.1	54.1	54.1
80°	45.1	45.1	40.6	40.6	36.1	36.1	36.1	36.1	36.1	36.1	36.1
82.5°	27.1	27.1	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
85°	13.5	13.5	13.5	13.5	13.5	9.0	9.0	9.0	9.0	9.0	9.0
87.5°	4.5	4.5	4.5	4.5	4.5	9.0	9.0	9.0	9.0	9.0	9.0
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: P252531

CATALOG NUMBER: LD6B70D010TE EU6B60708027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3247.8	3247.8	3247.8	3247.8	3247.8	3247.8	3247.8	3247.8
2.5°	3207.2	3220.7	3202.7	3216.2	3211.7	3207.2	3198.2	3216.2
5°	3153.1	3157.6	3139.5	3157.6	3153.1	3144.1	3135.0	3153.1
7.5°	3076.4	3089.9	3067.4	3085.4	3080.9	3071.9	3062.9	3080.9
10°	2990.7	3004.2	2986.2	2999.7	2999.7	2990.7	2977.2	2995.2
12.5°	2896.0	2905.0	2886.9	2905.0	2900.5	2891.4	2886.9	2900.5
15°	2792.2	2805.7	2787.7	2801.2	2796.7	2792.2	2787.7	2801.2
17.5°	2679.4	2693.0	2679.4	2693.0	2693.0	2679.4	2674.9	2683.9
20°	2566.7	2575.7	2562.2	2575.7	2571.2	2571.2	2562.2	2575.7
22.5°	2440.4	2453.9	2444.9	2453.9	2449.4	2449.4	2444.9	2453.9
25°	2314.1	2327.6	2314.1	2327.6	2323.1	2323.1	2314.1	2336.6
27.5°	2187.8	2196.8	2183.2	2201.3	2196.8	2187.8	2192.3	2196.8
30°	2052.4	2061.5	2052.4	2066.0	2066.0	2066.0	2056.9	2066.0
32.5°	1917.1	1930.6	1917.1	1930.6	1926.1	1926.1	1921.6	1930.6
35°	1781.8	1786.3	1777.3	1790.8	1790.8	1795.3	1786.3	1799.8
37.5°	1641.9	1646.5	1641.9	1646.5	1655.5	1641.9	1651.0	1655.5
40°	1497.6	1506.6	1502.1	1506.6	1506.6	1511.1	1506.6	1511.1
42.5°	1353.3	1362.3	1353.3	1366.8	1362.3	1362.3	1366.8	1366.8
45°	1204.4	1217.9	1208.9	1217.9	1222.4	1217.9	1217.9	1226.9
47.5°	1064.6	1073.6	1069.1	1073.6	1073.6	1073.6	1073.6	1082.6
50°	924.7	929.2	929.2	933.7	933.7	938.3	929.2	933.7
52.5°	784.9	793.9	793.9	793.9	789.4	793.9	793.9	793.9
55°	658.6	663.1	654.1	663.1	663.1	658.6	658.6	667.6
57.5°	536.8	536.8	536.8	536.8	536.8	532.3	536.8	536.8
60°	424.0	428.5	424.0	424.0	424.0	424.0	419.5	428.5
62.5°	329.3	329.3	324.8	329.3	329.3	329.3	333.8	333.8
65°	257.1	261.6	257.1	261.6	261.6	261.6	261.6	266.1
67.5°	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0
70°	153.4	153.4	153.4	157.9	153.4	153.4	153.4	157.9
72.5°	112.8	112.8	112.8	112.8	112.8	112.8	117.3	117.3
75°	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
77.5°	54.1	54.1	54.1	58.6	54.1	58.6	54.1	54.1
80°	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
82.5°	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
85°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
87.5°	9.0	9.0	9.0	9.0	4.5	4.5	4.5	4.5
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)