

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: P252427

Luminaire Tested: **LD6B70D010TE EU6B60708027 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252427  
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: LD6B70D010TE EU6B60708027 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: 6131.0 lumens  
Efficiency: N/A  
Efficacy: 77.2 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

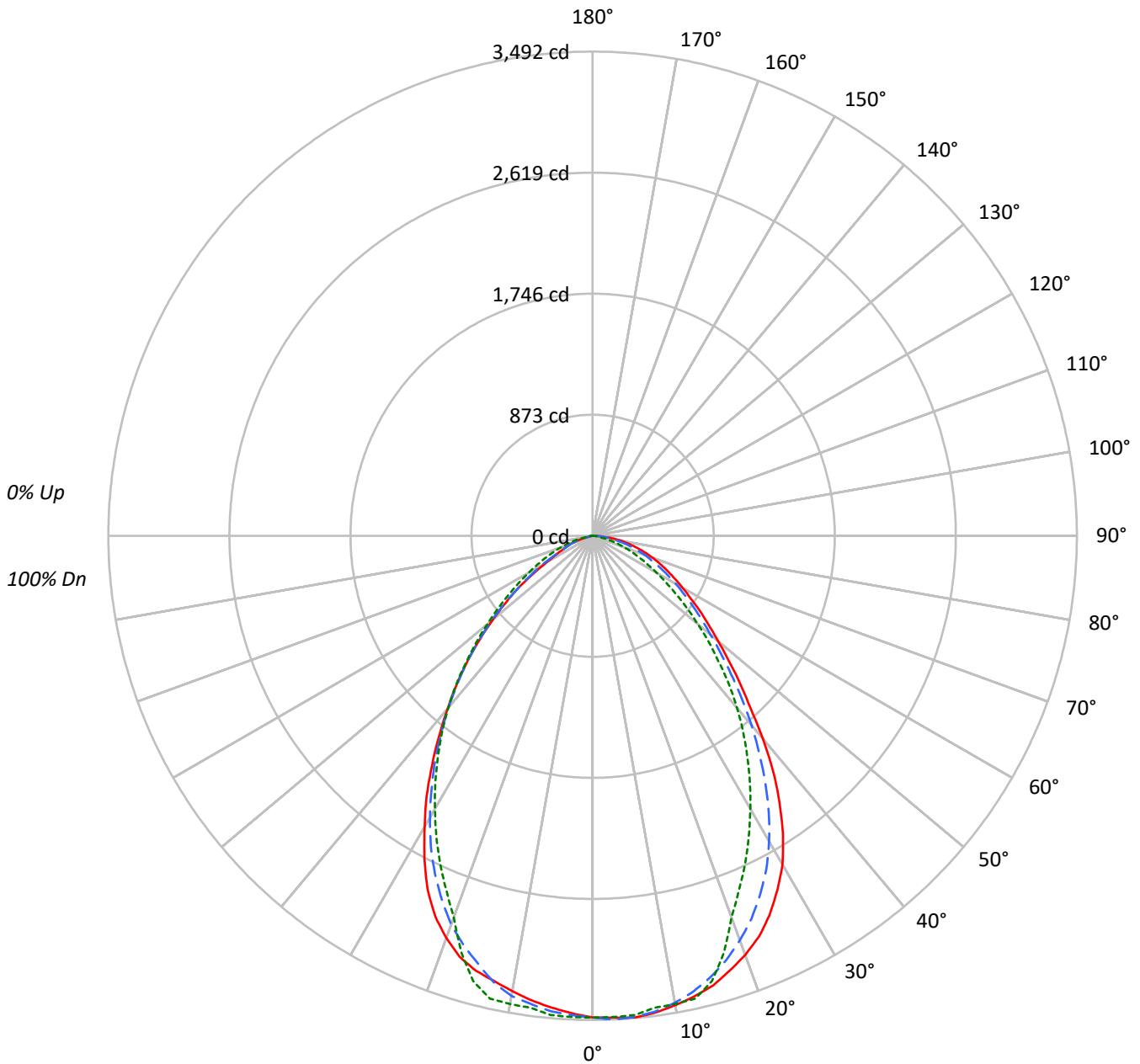
Input Watts (W): 79.45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	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°	226639	226639	226639
5°	228389	227210	223661
10°	227744	227148	220868
15°	226712	224577	219397
20°	223328	203284	214247
25°	217265	187392	202652
30°	206300	171293	182510
35°	187203	154868	160618
40°	162530	137934	138317
45°	138608	118633	117388
50°	119969	100278	94787
55°	107249	83647	73376
60°	97717	69468	49452
65°	91234	57102	36910
70°	86925	46467	30978
75°	81872	32971	10234
80°	77959	16944	3381
85°	64151	10105	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	328.0	5.4
10°-20°	917.5	15.0
20°-30°	1266.5	20.7
30°-40°	1288.8	21.0
40°-50°	1035.7	16.9
50°-60°	688.7	11.2
60°-70°	392.4	6.4
70°-80°	176.3	2.9
80°-90°	37.1	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°	2512.0	41.0
0°-40°	3800.8	62.0
0°-60°	5525.2	90.1
0°-90°	6131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6131.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3474	3474	3474	3474	3474	
5°	3487	3483	3469	3442	3415	331
15°	3357	3293	3325	3194	3248	945
25°	3018	2856	2603	2689	2815	1383
35°	2350	2170	1944	1981	2017	1461
45°	1502	1412	1286	1272	1272	1165
55°	943	880	735	654	645	847
65°	591	528	370	239	239	589
75°	325	271	131	54	41	347
85°	86	59	14	4	0	102
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°	3473.9	3473.9	3473.9	3473.9	3473.9	3473.9	3473.9	3473.9	3473.9	3473.9	3473.9
2.5°	3478.4	3496.4	3491.9	3487.4	3491.9	3487.4	3478.4	3478.4	3469.4	3469.4	3491.9
5°	3487.4	3496.4	3491.9	3487.4	3487.4	3491.9	3473.9	3473.9	3464.9	3460.3	3482.9
7.5°	3469.4	3482.9	3473.9	3473.9	3469.4	3473.9	3455.8	3455.8	3442.3	3437.8	3460.3
10°	3437.8	3455.8	3446.8	3446.8	3446.8	3437.8	3428.8	3424.2	3410.7	3406.2	3419.7
12.5°	3401.7	3415.2	3410.7	3401.7	3401.7	3401.7	3383.6	3379.1	3361.1	3352.1	3365.6
15°	3356.6	3365.6	3361.1	3356.6	3347.6	3347.6	3329.5	3320.5	3302.4	3284.4	3293.4
17.5°	3288.9	3302.4	3293.4	3288.9	3275.4	3275.4	3257.3	3248.3	3221.2	3203.2	3207.7
20°	3216.7	3221.2	3216.7	3207.7	3194.2	3189.6	3171.6	3153.6	3131.0	3108.4	3103.9
22.5°	3131.0	3135.5	3122.0	3113.0	3099.4	3094.9	3072.3	3058.8	3022.7	2995.7	2991.1
25°	3018.2	3022.7	3022.7	3000.2	2991.1	2982.1	2959.6	2937.0	2905.4	2869.3	2855.8
27.5°	2882.9	2896.4	2887.4	2864.8	2846.8	2842.3	2819.7	2801.7	2761.1	2729.5	2711.4
30°	2738.5	2734.0	2729.5	2715.9	2688.9	2684.4	2661.8	2639.2	2607.7	2567.1	2544.5
32.5°	2553.5	2553.5	2549.0	2535.5	2508.4	2499.4	2481.3	2454.3	2418.2	2386.6	2364.0
35°	2350.5	2355.0	2350.5	2323.4	2305.4	2296.4	2287.3	2255.8	2224.2	2188.1	2170.0
37.5°	2138.5	2124.9	2129.4	2106.9	2084.3	2093.3	2066.3	2052.7	2016.7	1989.6	1971.5
40°	1908.4	1917.4	1899.4	1890.3	1876.8	1863.3	1863.3	1840.7	1822.7	1791.1	1782.1
42.5°	1682.8	1696.3	1691.8	1682.8	1664.8	1669.3	1646.7	1637.7	1615.1	1601.6	1588.1
45°	1502.3	1502.3	1502.3	1493.3	1488.8	1479.8	1466.2	1452.7	1439.2	1421.1	1412.1
47.5°	1326.4	1326.4	1330.9	1321.9	1312.9	1308.3	1299.3	1299.3	1276.8	1258.7	1249.7
50°	1182.0	1182.0	1182.0	1173.0	1164.0	1164.0	1155.0	1145.9	1132.4	1118.9	1109.8
52.5°	1051.2	1051.2	1051.2	1042.2	1037.7	1033.1	1028.6	1024.1	1006.1	997.0	988.0
55°	942.9	938.4	938.4	933.9	924.9	924.9	920.4	911.3	897.8	884.3	879.7
57.5°	834.6	839.1	834.6	834.6	825.6	825.6	816.6	812.1	798.5	789.5	780.5
60°	748.9	748.9	748.9	744.4	735.4	739.9	730.9	726.4	712.8	699.3	690.3
62.5°	663.2	667.7	667.7	663.2	654.2	654.2	649.7	645.1	631.6	618.1	604.5
65°	591.0	591.0	591.0	586.5	582.0	582.0	577.5	573.0	559.4	541.4	527.8
67.5°	523.3	518.8	518.8	518.8	514.3	509.8	505.3	500.8	487.2	473.7	455.7
70°	455.7	455.7	455.7	451.2	442.1	446.6	442.1	437.6	424.1	410.5	397.0
72.5°	392.5	392.5	388.0	383.5	383.5	379.0	379.0	374.5	360.9	342.9	329.3
75°	324.8	324.8	324.8	324.8	315.8	320.3	311.3	306.8	297.8	284.2	270.7
77.5°	266.2	266.2	266.2	261.7	257.2	257.2	252.6	248.1	234.6	225.6	207.5
80°	207.5	207.5	207.5	207.5	203.0	198.5	194.0	189.5	180.5	166.9	153.4
82.5°	153.4	153.4	148.9	148.9	148.9	144.4	139.9	135.3	126.3	117.3	108.3
85°	85.7	90.2	90.2	81.2	85.7	81.2	81.2	72.2	72.2	63.2	58.6
87.5°	31.6	27.1	27.1	27.1	27.1	27.1	27.1	22.6	22.6	22.6	18.0
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3473.9	3473.9	3473.9	3473.9	3473.9	3473.9	3473.9	3473.9	3473.9	3473.9	3473.9
2.5°	3473.9	3469.4	3487.4	3487.4	3460.3	3473.9	3478.4	3469.4	3469.4	3473.9	3460.3
5°	3464.9	3455.8	3473.9	3478.4	3451.3	3464.9	3469.4	3460.3	3464.9	3469.4	3451.3
7.5°	3433.3	3433.3	3446.8	3451.3	3424.2	3437.8	3437.8	3428.8	3433.3	3433.3	3419.7
10°	3401.7	3388.2	3401.7	3401.7	3379.1	3383.6	3392.7	3388.2	3406.2	3428.8	3428.8
12.5°	3343.0	3329.5	3352.1	3352.1	3338.5	3356.6	3379.1	3392.7	3410.7	3419.7	3392.7
15°	3270.9	3275.4	3316.0	3347.6	3334.0	3361.1	3383.6	3374.6	3352.1	3325.0	3284.4
17.5°	3176.1	3162.6	3198.7	3216.7	3198.7	3207.7	3225.7	3207.7	3171.6	3149.0	3094.9
20°	3067.8	3031.7	3031.7	3022.7	2991.1	2991.1	2986.6	2955.1	2941.5	2928.0	2905.4
22.5°	2946.0	2905.4	2891.9	2864.8	2837.8	2833.2	2819.7	2788.1	2770.1	2761.1	2734.0
25°	2806.2	2770.1	2747.5	2720.5	2679.8	2670.8	2657.3	2625.7	2616.7	2603.2	2580.6
27.5°	2661.8	2616.7	2585.1	2558.0	2521.9	2517.4	2490.4	2467.8	2449.8	2440.7	2422.7
30°	2494.9	2445.2	2422.7	2386.6	2359.5	2350.5	2327.9	2296.4	2282.8	2273.8	2260.3
32.5°	2309.9	2269.3	2246.7	2215.2	2179.1	2183.6	2156.5	2129.4	2120.4	2111.4	2097.9
35°	2129.4	2088.8	2061.8	2034.7	2012.1	2003.1	1985.1	1962.5	1949.0	1944.5	1935.4
37.5°	1930.9	1899.4	1876.8	1849.7	1831.7	1822.7	1813.6	1791.1	1782.1	1782.1	1764.0
40°	1736.9	1709.9	1691.8	1678.3	1655.7	1651.2	1642.2	1628.7	1624.1	1619.6	1606.1
42.5°	1561.0	1524.9	1511.4	1502.3	1488.8	1479.8	1475.3	1466.2	1461.7	1457.2	1443.7
45°	1394.1	1362.5	1348.9	1339.9	1326.4	1321.9	1317.4	1303.8	1294.8	1285.8	1281.3
47.5°	1231.6	1209.1	1204.6	1182.0	1173.0	1164.0	1155.0	1145.9	1141.4	1136.9	1118.9
50°	1091.8	1078.3	1055.7	1042.2	1033.1	1028.6	1010.6	997.0	992.5	988.0	974.5
52.5°	965.5	947.4	933.9	911.3	906.8	897.8	888.8	870.7	861.7	857.2	843.7
55°	852.7	839.1	821.1	803.1	789.5	785.0	771.5	753.4	744.4	735.4	726.4
57.5°	757.9	735.4	717.3	699.3	690.3	676.7	663.2	654.2	640.6	627.1	613.6
60°	667.7	649.7	627.1	609.1	600.0	591.0	573.0	559.4	545.9	532.4	518.8
62.5°	582.0	563.9	541.4	523.3	514.3	505.3	487.2	473.7	460.2	446.6	428.6
65°	505.3	487.2	469.2	451.2	442.1	433.1	415.1	397.0	383.5	369.9	351.9
67.5°	442.1	419.6	401.5	383.5	374.5	365.4	347.4	333.9	315.8	302.3	284.2
70°	374.5	356.4	342.9	324.8	315.8	306.8	288.7	270.7	257.2	243.6	225.6
72.5°	315.8	293.2	279.7	261.7	252.6	248.1	230.1	216.6	203.0	185.0	171.4
75°	252.6	234.6	216.6	203.0	194.0	189.5	171.4	157.9	144.4	130.8	117.3
77.5°	194.0	180.5	162.4	148.9	139.9	135.3	117.3	103.8	90.2	81.2	67.7
80°	144.4	126.3	117.3	103.8	99.3	90.2	81.2	67.7	58.6	45.1	36.1
82.5°	99.3	85.7	76.7	67.7	63.2	58.6	49.6	40.6	31.6	27.1	22.6
85°	54.1	45.1	40.6	36.1	31.6	31.6	27.1	22.6	18.0	13.5	9.0
87.5°	18.0	13.5	13.5	13.5	13.5	9.0	9.0	9.0	4.5	4.5	4.5
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°	3473.9	3473.9	3473.9	3473.9	3473.9	3473.9	3473.9	3473.9	3473.9	3473.9	3473.9
2.5°	3469.4	3469.4	3469.4	3464.9	3464.9	3464.9	3460.3	3478.4	3460.3	3455.8	3469.4
5°	3464.9	3455.8	3455.8	3455.8	3455.8	3451.3	3446.8	3455.8	3442.3	3437.8	3437.8
7.5°	3437.8	3433.3	3433.3	3428.8	3424.2	3419.7	3415.2	3419.7	3406.2	3401.7	3401.7
10°	3442.3	3433.3	3433.3	3419.7	3410.7	3397.2	3383.6	3388.2	3370.1	3356.6	3356.6
12.5°	3388.2	3365.6	3352.1	3338.5	3329.5	3325.0	3306.9	3316.0	3297.9	3293.4	3293.4
15°	3266.3	3239.3	3216.7	3207.7	3207.7	3198.7	3185.1	3203.2	3194.2	3198.7	3221.2
17.5°	3076.9	3063.3	3049.8	3045.3	3049.8	3058.8	3067.8	3094.9	3094.9	3108.4	3131.0
20°	2909.9	2900.9	2909.9	2909.9	2914.4	2932.5	2950.5	2973.1	2982.1	2995.7	3027.2
22.5°	2747.5	2747.5	2756.5	2770.1	2765.6	2797.1	2801.7	2842.3	2842.3	2869.3	2896.4
25°	2589.6	2589.6	2598.6	2603.2	2612.2	2630.2	2648.3	2679.8	2688.9	2715.9	2738.5
27.5°	2436.2	2431.7	2431.7	2436.2	2445.2	2467.8	2476.8	2512.9	2526.5	2544.5	2567.1
30°	2264.8	2260.3	2269.3	2278.3	2273.8	2296.4	2309.9	2337.0	2346.0	2364.0	2382.1
32.5°	2102.4	2102.4	2102.4	2111.4	2111.4	2129.4	2129.4	2161.0	2161.0	2174.6	2192.6
35°	1935.4	1935.4	1940.0	1944.5	1949.0	1953.5	1958.0	1976.0	1980.6	1985.1	1994.1
37.5°	1777.5	1773.0	1777.5	1777.5	1768.5	1786.6	1786.6	1804.6	1791.1	1804.6	1809.1
40°	1615.1	1615.1	1610.6	1610.6	1610.6	1619.6	1610.6	1624.1	1615.1	1624.1	1619.6
42.5°	1448.2	1448.2	1439.2	1448.2	1443.7	1443.7	1443.7	1452.7	1439.2	1448.2	1452.7
45°	1281.3	1276.8	1276.8	1272.3	1272.3	1272.3	1276.8	1276.8	1272.3	1281.3	1281.3
47.5°	1118.9	1114.3	1114.3	1114.3	1114.3	1118.9	1105.3	1114.3	1105.3	1105.3	1105.3
50°	979.0	974.5	970.0	965.5	961.0	961.0	956.4	956.4	947.4	942.9	938.4
52.5°	843.7	839.1	830.1	830.1	825.6	821.1	807.6	807.6	794.0	789.5	789.5
55°	721.8	708.3	703.8	694.8	694.8	685.8	676.7	667.7	654.2	645.1	645.1
57.5°	609.1	595.5	586.5	582.0	577.5	568.5	550.4	545.9	527.8	523.3	518.8
60°	509.8	496.3	482.7	473.7	469.2	455.7	437.6	428.6	419.6	406.0	392.5
62.5°	415.1	401.5	383.5	379.0	369.9	356.4	342.9	329.3	320.3	306.8	297.8
65°	333.9	320.3	306.8	297.8	288.7	275.2	261.7	248.1	239.1	234.6	230.1
67.5°	270.7	252.6	239.1	234.6	225.6	216.6	203.0	198.5	189.5	189.5	189.5
70°	212.0	198.5	185.0	180.5	175.9	166.9	157.9	157.9	157.9	157.9	157.9
72.5°	157.9	148.9	135.3	130.8	126.3	121.8	112.8	117.3	112.8	112.8	112.8
75°	99.3	90.2	81.2	76.7	72.2	67.7	63.2	58.6	54.1	49.6	49.6
77.5°	54.1	45.1	40.6	36.1	36.1	31.6	27.1	27.1	22.6	22.6	22.6
80°	31.6	27.1	22.6	18.0	18.0	13.5	13.5	13.5	13.5	9.0	9.0
82.5°	18.0	13.5	9.0	9.0	9.0	9.0	4.5	4.5	4.5	4.5	4.5
85°	9.0	9.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	0.0
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	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	0.0	0.0	0.0





TEST NUMBER: P252427

CATALOG NUMBER: LD6B70D010TE EU6B60708027 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3473.9	3473.9	3473.9	3473.9	3473.9	3473.9	3473.9	3473.9
2.5°	3446.8	3460.3	3446.8	3460.3	3460.3	3460.3	3460.3	3446.8
5°	3424.2	3433.3	3419.7	3428.8	3433.3	3428.8	3428.8	3415.2
7.5°	3383.6	3392.7	3379.1	3392.7	3397.2	3392.7	3388.2	3379.1
10°	3343.0	3347.6	3334.0	3343.0	3352.1	3352.1	3347.6	3334.0
12.5°	3279.9	3293.4	3279.9	3288.9	3297.9	3302.4	3302.4	3288.9
15°	3207.7	3230.3	3221.2	3234.8	3248.3	3252.8	3252.8	3248.3
17.5°	3135.5	3158.1	3144.5	3167.1	3180.6	3189.6	3194.2	3185.1
20°	3031.7	3058.8	3049.8	3067.8	3085.9	3099.4	3099.4	3085.9
22.5°	2896.4	2932.5	2928.0	2941.5	2964.1	2968.6	2977.6	2968.6
25°	2747.5	2774.6	2770.1	2783.6	2810.7	2810.7	2815.2	2815.2
27.5°	2576.1	2603.2	2598.6	2607.7	2625.7	2630.2	2634.7	2625.7
30°	2391.1	2404.6	2404.6	2418.2	2431.7	2436.2	2436.2	2422.7
32.5°	2188.1	2206.1	2215.2	2210.6	2224.2	2233.2	2228.7	2228.7
35°	2003.1	2007.6	2012.1	2016.7	2021.2	2030.2	2021.2	2016.7
37.5°	1804.6	1818.1	1809.1	1818.1	1827.2	1822.7	1818.1	1818.1
40°	1624.1	1628.7	1619.6	1628.7	1633.2	1633.2	1633.2	1624.1
42.5°	1443.7	1452.7	1443.7	1452.7	1452.7	1452.7	1452.7	1448.2
45°	1263.2	1272.3	1272.3	1276.8	1276.8	1272.3	1272.3	1272.3
47.5°	1096.3	1105.3	1096.3	1105.3	1109.8	1100.8	1100.8	1100.8
50°	938.4	933.9	933.9	938.4	938.4	938.4	938.4	933.9
52.5°	776.0	780.5	780.5	780.5	785.0	780.5	785.0	785.0
55°	636.1	636.1	636.1	640.6	636.1	636.1	640.6	645.1
57.5°	509.8	505.3	500.8	500.8	505.3	500.8	500.8	500.8
60°	392.5	388.0	383.5	383.5	383.5	383.5	383.5	379.0
62.5°	293.2	293.2	293.2	297.8	297.8	297.8	297.8	302.3
65°	234.6	234.6	234.6	234.6	234.6	234.6	234.6	239.1
67.5°	189.5	189.5	189.5	194.0	194.0	194.0	194.0	194.0
70°	157.9	157.9	162.4	157.9	162.4	162.4	162.4	162.4
72.5°	108.3	108.3	108.3	108.3	108.3	103.8	108.3	103.8
75°	45.1	45.1	45.1	45.1	45.1	45.1	45.1	40.6
77.5°	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
80°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	4.5	4.5	4.5	4.5	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)