

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: P252429

Luminaire Tested: **LD6B70D010TE EU6B60708035 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252429  
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 EU6B60708035 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6574.0 lumens  
Efficiency: N/A  
Efficacy: 82.7 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

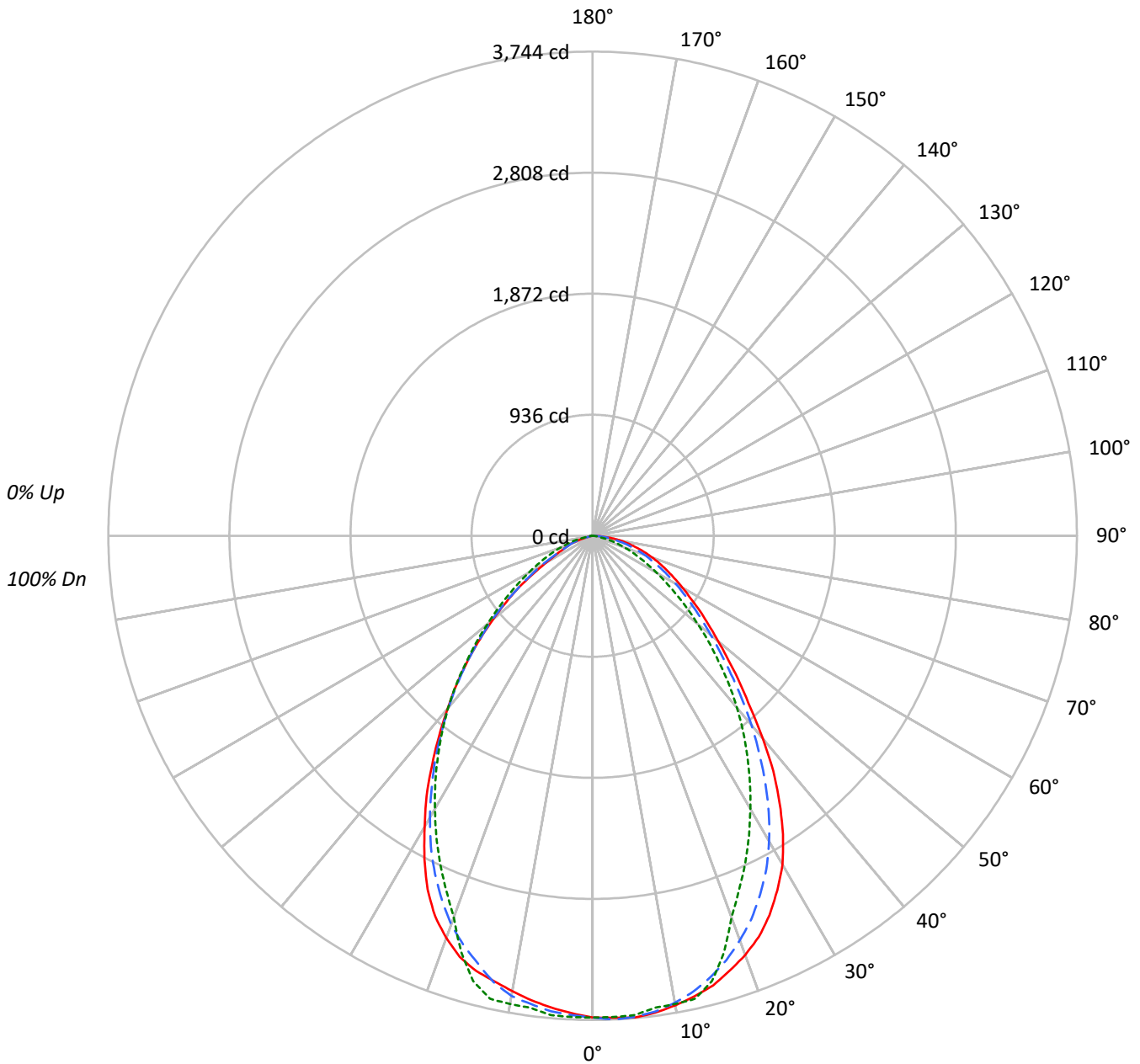
Input Watts (W): 79.45  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	243015	243015	243015
5°	244893	243622	239824
10°	244200	243557	236827
15°	243091	240801	235249
20°	239463	217968	229729
25°	232965	200925	217294
30°	221209	183670	195694
35°	200727	166058	172222
40°	174274	147907	148316
45°	148628	127205	125867
50°	128637	107525	101638
55°	114995	89687	78688
60°	104776	74479	53028
65°	97826	61240	39581
70°	93201	49824	33229
75°	87796	35365	10965
80°	83595	18184	3644
85°	68792	10854	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.7	5.4
10°-20°	983.8	15.0
20°-30°	1358.0	20.7
30°-40°	1381.9	21.0
40°-50°	1110.6	16.9
50°-60°	738.5	11.2
60°-70°	420.8	6.4
70°-80°	189.0	2.9
80°-90°	39.8	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°	2693.5	41.0
0°-40°	4075.4	62.0
0°-60°	5924.4	90.1
0°-90°	6574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6574.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3725	3725	3725	3725	3725	
5°	3739	3735	3720	3691	3662	355
15°	3599	3531	3565	3425	3483	1013
25°	3236	3062	2791	2883	3019	1483
35°	2520	2327	2085	2124	2162	1566
45°	1611	1514	1379	1364	1364	1249
55°	1011	943	788	701	692	908
65°	634	566	397	256	256	631
75°	348	290	140	58	44	372
85°	92	63	14	5	0	109
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°	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9
2.5°	3729.7	3749.1	3744.2	3739.4	3744.2	3739.4	3729.7	3729.7	3720.0	3720.0	3744.2
5°	3739.4	3749.1	3744.2	3739.4	3739.4	3744.2	3724.9	3724.9	3715.2	3710.4	3734.6
7.5°	3720.0	3734.6	3724.9	3724.9	3720.0	3724.9	3705.5	3705.5	3691.0	3686.2	3710.4
10°	3686.2	3705.5	3695.9	3695.9	3695.9	3686.2	3676.5	3671.7	3657.2	3652.3	3666.8
12.5°	3647.5	3662.0	3657.2	3647.5	3647.5	3647.5	3628.1	3623.3	3603.9	3594.3	3608.8
15°	3599.1	3608.8	3603.9	3599.1	3589.4	3589.4	3570.1	3560.4	3541.1	3521.7	3531.4
17.5°	3526.5	3541.1	3531.4	3526.5	3512.0	3512.0	3492.7	3483.0	3454.0	3434.6	3439.5
20°	3449.1	3454.0	3449.1	3439.5	3425.0	3420.1	3400.8	3381.4	3357.2	3333.0	3328.2
22.5°	3357.2	3362.1	3347.6	3337.9	3323.4	3318.5	3294.3	3279.8	3241.1	3212.1	3207.3
25°	3236.3	3241.1	3241.1	3216.9	3207.3	3197.6	3173.4	3149.2	3115.4	3076.7	3062.1
27.5°	3091.2	3105.7	3096.0	3071.8	3052.5	3047.6	3023.4	3004.1	2960.6	2926.7	2907.3
30°	2936.4	2931.5	2926.7	2912.2	2883.2	2878.3	2854.1	2829.9	2796.1	2752.5	2728.4
32.5°	2738.0	2738.0	2733.2	2718.7	2689.7	2680.0	2660.6	2631.6	2592.9	2559.0	2534.9
35°	2520.3	2525.2	2520.3	2491.3	2472.0	2462.3	2452.6	2418.8	2384.9	2346.2	2326.8
37.5°	2293.0	2278.5	2283.3	2259.1	2234.9	2244.6	2215.6	2201.1	2162.4	2133.3	2114.0
40°	2046.3	2055.9	2036.6	2026.9	2012.4	1997.9	1997.9	1973.7	1954.4	1920.5	1910.8
42.5°	1804.4	1818.9	1814.1	1804.4	1785.0	1789.9	1765.7	1756.0	1731.8	1717.3	1702.8
45°	1610.9	1610.9	1610.9	1601.2	1596.4	1586.7	1572.2	1557.7	1543.2	1523.8	1514.1
47.5°	1422.2	1422.2	1427.1	1417.4	1407.7	1402.9	1393.2	1393.2	1369.0	1349.7	1340.0
50°	1267.4	1267.4	1267.4	1257.8	1248.1	1248.1	1238.4	1228.7	1214.2	1199.7	1190.0
52.5°	1127.1	1127.1	1127.1	1117.5	1112.6	1107.8	1103.0	1098.1	1078.8	1069.1	1059.4
55°	1011.0	1006.2	1006.2	1001.4	991.7	991.7	986.9	977.2	962.7	948.2	943.3
57.5°	894.9	899.8	894.9	894.9	885.3	885.3	875.6	870.8	856.2	846.6	836.9
60°	803.0	803.0	803.0	798.2	788.5	793.4	783.7	778.8	764.3	749.8	740.1
62.5°	711.1	716.0	716.0	711.1	701.4	701.4	696.6	691.8	677.3	662.7	648.2
65°	633.7	633.7	633.7	628.9	624.0	624.0	619.2	614.4	599.9	580.5	566.0
67.5°	561.2	556.3	556.3	556.3	551.5	546.6	541.8	537.0	522.5	507.9	488.6
70°	488.6	488.6	488.6	483.8	474.1	478.9	474.1	469.2	454.7	440.2	425.7
72.5°	420.9	420.9	416.0	411.2	411.2	406.4	406.4	401.5	387.0	367.7	353.1
75°	348.3	348.3	348.3	348.3	338.6	343.5	333.8	329.0	319.3	304.8	290.3
77.5°	285.4	285.4	285.4	280.6	275.7	275.7	270.9	266.1	251.6	241.9	222.5
80°	222.5	222.5	222.5	222.5	217.7	212.9	208.0	203.2	193.5	179.0	164.5
82.5°	164.5	164.5	159.6	159.6	159.6	154.8	150.0	145.1	135.5	125.8	116.1
85°	91.9	96.8	96.8	87.1	91.9	87.1	87.1	77.4	77.4	67.7	62.9
87.5°	33.9	29.0	29.0	29.0	29.0	29.0	29.0	24.2	24.2	24.2	19.4
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°	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9
2.5°	3724.9	3720.0	3739.4	3739.4	3710.4	3724.9	3729.7	3720.0	3720.0	3724.9	3710.4
5°	3715.2	3705.5	3724.9	3729.7	3700.7	3715.2	3720.0	3710.4	3715.2	3720.0	3700.7
7.5°	3681.3	3681.3	3695.9	3700.7	3671.7	3686.2	3686.2	3676.5	3681.3	3681.3	3666.8
10°	3647.5	3633.0	3647.5	3647.5	3623.3	3628.1	3637.8	3633.0	3652.3	3676.5	3676.5
12.5°	3584.6	3570.1	3594.3	3594.3	3579.8	3599.1	3623.3	3637.8	3657.2	3666.8	3637.8
15°	3507.2	3512.0	3555.6	3589.4	3574.9	3603.9	3628.1	3618.5	3594.3	3565.2	3521.7
17.5°	3405.6	3391.1	3429.8	3449.1	3429.8	3439.5	3458.8	3439.5	3400.8	3376.6	3318.5
20°	3289.5	3250.8	3250.8	3241.1	3207.3	3207.3	3202.4	3168.6	3154.1	3139.5	3115.4
22.5°	3158.9	3115.4	3100.8	3071.8	3042.8	3038.0	3023.4	2989.6	2970.2	2960.6	2931.5
25°	3008.9	2970.2	2946.0	2917.0	2873.5	2863.8	2849.3	2815.4	2805.8	2791.2	2767.1
27.5°	2854.1	2805.8	2771.9	2742.9	2704.2	2699.3	2670.3	2646.1	2626.8	2617.1	2597.7
30°	2675.1	2621.9	2597.7	2559.0	2530.0	2520.3	2496.2	2462.3	2447.8	2438.1	2423.6
32.5°	2476.8	2433.3	2409.1	2375.2	2336.5	2341.4	2312.3	2283.3	2273.6	2264.0	2249.4
35°	2283.3	2239.8	2210.7	2181.7	2157.5	2147.9	2128.5	2104.3	2089.8	2085.0	2075.3
37.5°	2070.5	2036.6	2012.4	1983.4	1964.0	1954.4	1944.7	1920.5	1910.8	1910.8	1891.5
40°	1862.4	1833.4	1814.1	1799.6	1775.4	1770.5	1760.9	1746.3	1741.5	1736.7	1722.2
42.5°	1673.8	1635.1	1620.6	1610.9	1596.4	1586.7	1581.9	1572.2	1567.4	1562.5	1548.0
45°	1494.8	1460.9	1446.4	1436.7	1422.2	1417.4	1412.6	1398.0	1388.4	1378.7	1373.9
47.5°	1320.6	1296.5	1291.6	1267.4	1257.8	1248.1	1238.4	1228.7	1223.9	1219.1	1199.7
50°	1170.7	1156.2	1132.0	1117.5	1107.8	1103.0	1083.6	1069.1	1064.3	1059.4	1044.9
52.5°	1035.2	1015.9	1001.4	977.2	972.3	962.7	953.0	933.6	924.0	919.1	904.6
55°	914.3	899.8	880.4	861.1	846.6	841.7	827.2	807.9	798.2	788.5	778.8
57.5°	812.7	788.5	769.2	749.8	740.1	725.6	711.1	701.4	686.9	672.4	657.9
60°	716.0	696.6	672.4	653.1	643.4	633.7	614.4	599.9	585.3	570.8	556.3
62.5°	624.0	604.7	580.5	561.2	551.5	541.8	522.5	507.9	493.4	478.9	459.6
65°	541.8	522.5	503.1	483.8	474.1	464.4	445.1	425.7	411.2	396.7	377.3
67.5°	474.1	449.9	430.5	411.2	401.5	391.8	372.5	358.0	338.6	324.1	304.8
70°	401.5	382.2	367.7	348.3	338.6	329.0	309.6	290.3	275.7	261.2	241.9
72.5°	338.6	314.4	299.9	280.6	270.9	266.1	246.7	232.2	217.7	198.3	183.8
75°	270.9	251.6	232.2	217.7	208.0	203.2	183.8	169.3	154.8	140.3	125.8
77.5°	208.0	193.5	174.2	159.6	150.0	145.1	125.8	111.3	96.8	87.1	72.6
80°	154.8	135.5	125.8	111.3	106.4	96.8	87.1	72.6	62.9	48.4	38.7
82.5°	106.4	91.9	82.2	72.6	67.7	62.9	53.2	43.5	33.9	29.0	24.2
85°	58.1	48.4	43.5	38.7	33.9	33.9	29.0	24.2	19.4	14.5	9.7
87.5°	19.4	14.5	14.5	14.5	14.5	9.7	9.7	9.7	4.8	4.8	4.8
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9
2.5°	3720.0	3720.0	3720.0	3715.2	3715.2	3715.2	3710.4	3729.7	3710.4	3705.5	3720.0
5°	3715.2	3705.5	3705.5	3705.5	3705.5	3700.7	3695.9	3705.5	3691.0	3686.2	3686.2
7.5°	3686.2	3681.3	3681.3	3676.5	3671.7	3666.8	3662.0	3666.8	3652.3	3647.5	3647.5
10°	3691.0	3681.3	3681.3	3666.8	3657.2	3642.6	3628.1	3633.0	3613.6	3599.1	3599.1
12.5°	3633.0	3608.8	3594.3	3579.8	3570.1	3565.2	3545.9	3555.6	3536.2	3531.4	3531.4
15°	3502.4	3473.3	3449.1	3439.5	3439.5	3429.8	3415.3	3434.6	3425.0	3429.8	3454.0
17.5°	3299.2	3284.7	3270.2	3265.3	3270.2	3279.8	3289.5	3318.5	3318.5	3333.0	3357.2
20°	3120.2	3110.5	3120.2	3120.2	3125.0	3144.4	3163.7	3187.9	3197.6	3212.1	3246.0
22.5°	2946.0	2946.0	2955.7	2970.2	2965.4	2999.3	3004.1	3047.6	3047.6	3076.7	3105.7
25°	2776.7	2776.7	2786.4	2791.2	2800.9	2820.3	2839.6	2873.5	2883.2	2912.2	2936.4
27.5°	2612.3	2607.4	2607.4	2612.3	2621.9	2646.1	2655.8	2694.5	2709.0	2728.4	2752.5
30°	2428.4	2423.6	2433.3	2442.9	2438.1	2462.3	2476.8	2505.8	2515.5	2534.9	2554.2
32.5°	2254.3	2254.3	2254.3	2264.0	2264.0	2283.3	2283.3	2317.2	2317.2	2331.7	2351.0
35°	2075.3	2075.3	2080.1	2085.0	2089.8	2094.6	2099.5	2118.8	2123.7	2128.5	2138.2
37.5°	1906.0	1901.1	1906.0	1906.0	1896.3	1915.7	1915.7	1935.0	1920.5	1935.0	1939.8
40°	1731.8	1731.8	1727.0	1727.0	1727.0	1736.7	1727.0	1741.5	1731.8	1741.5	1736.7
42.5°	1552.8	1552.8	1543.2	1552.8	1548.0	1548.0	1548.0	1557.7	1543.2	1552.8	1557.7
45°	1373.9	1369.0	1369.0	1364.2	1364.2	1364.2	1369.0	1369.0	1364.2	1373.9	1373.9
47.5°	1199.7	1194.9	1194.9	1194.9	1194.9	1199.7	1185.2	1194.9	1185.2	1185.2	1185.2
50°	1049.7	1044.9	1040.1	1035.2	1030.4	1030.4	1025.6	1025.6	1015.9	1011.0	1006.2
52.5°	904.6	899.8	890.1	890.1	885.3	880.4	865.9	865.9	851.4	846.6	846.6
55°	774.0	759.5	754.7	745.0	745.0	735.3	725.6	716.0	701.4	691.8	691.8
57.5°	653.1	638.6	628.9	624.0	619.2	609.5	590.2	585.3	566.0	561.2	556.3
60°	546.6	532.1	517.6	507.9	503.1	488.6	469.2	459.6	449.9	435.4	420.9
62.5°	445.1	430.5	411.2	406.4	396.7	382.2	367.7	353.1	343.5	329.0	319.3
65°	358.0	343.5	329.0	319.3	309.6	295.1	280.6	266.1	256.4	251.6	246.7
67.5°	290.3	270.9	256.4	251.6	241.9	232.2	217.7	212.9	203.2	203.2	203.2
70°	227.4	212.9	198.3	193.5	188.7	179.0	169.3	169.3	169.3	169.3	169.3
72.5°	169.3	159.6	145.1	140.3	135.5	130.6	120.9	125.8	120.9	120.9	120.9
75°	106.4	96.8	87.1	82.2	77.4	72.6	67.7	62.9	58.1	53.2	53.2
77.5°	58.1	48.4	43.5	38.7	38.7	33.9	29.0	29.0	24.2	24.2	24.2
80°	33.9	29.0	24.2	19.4	19.4	14.5	14.5	14.5	14.5	9.7	9.7
82.5°	19.4	14.5	9.7	9.7	9.7	9.7	4.8	4.8	4.8	4.8	4.8
85°	9.7	9.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	0.0
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
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: P252429

CATALOG NUMBER: LD6B70D010TE EU6B60708035 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9
2.5°	3695.9	3710.4	3695.9	3710.4	3710.4	3710.4	3710.4	3695.9
5°	3671.7	3681.3	3666.8	3676.5	3681.3	3676.5	3676.5	3662.0
7.5°	3628.1	3637.8	3623.3	3637.8	3642.6	3637.8	3633.0	3623.3
10°	3584.6	3589.4	3574.9	3584.6	3594.3	3594.3	3589.4	3574.9
12.5°	3516.9	3531.4	3516.9	3526.5	3536.2	3541.1	3541.1	3526.5
15°	3439.5	3463.7	3454.0	3468.5	3483.0	3487.8	3487.8	3483.0
17.5°	3362.1	3386.3	3371.7	3395.9	3410.4	3420.1	3425.0	3415.3
20°	3250.8	3279.8	3270.2	3289.5	3308.9	3323.4	3323.4	3308.9
22.5°	3105.7	3144.4	3139.5	3154.1	3178.2	3183.1	3192.8	3183.1
25°	2946.0	2975.1	2970.2	2984.7	3013.8	3013.8	3018.6	3018.6
27.5°	2762.2	2791.2	2786.4	2796.1	2815.4	2820.3	2825.1	2815.4
30°	2563.9	2578.4	2578.4	2592.9	2607.4	2612.3	2612.3	2597.7
32.5°	2346.2	2365.5	2375.2	2370.4	2384.9	2394.6	2389.7	2389.7
35°	2147.9	2152.7	2157.5	2162.4	2167.2	2176.9	2167.2	2162.4
37.5°	1935.0	1949.5	1939.8	1949.5	1959.2	1954.4	1949.5	1949.5
40°	1741.5	1746.3	1736.7	1746.3	1751.2	1751.2	1751.2	1741.5
42.5°	1548.0	1557.7	1548.0	1557.7	1557.7	1557.7	1557.7	1552.8
45°	1354.5	1364.2	1364.2	1369.0	1369.0	1364.2	1364.2	1364.2
47.5°	1175.5	1185.2	1175.5	1185.2	1190.0	1180.4	1180.4	1180.4
50°	1006.2	1001.4	1001.4	1006.2	1006.2	1006.2	1006.2	1001.4
52.5°	832.1	836.9	836.9	836.9	841.7	836.9	841.7	841.7
55°	682.1	682.1	682.1	686.9	682.1	682.1	686.9	691.8
57.5°	546.6	541.8	537.0	537.0	541.8	537.0	537.0	537.0
60°	420.9	416.0	411.2	411.2	411.2	411.2	411.2	406.4
62.5°	314.4	314.4	314.4	319.3	319.3	319.3	319.3	324.1
65°	251.6	251.6	251.6	251.6	251.6	251.6	251.6	256.4
67.5°	203.2	203.2	203.2	208.0	208.0	208.0	208.0	208.0
70°	169.3	169.3	174.2	169.3	174.2	174.2	174.2	174.2
72.5°	116.1	116.1	116.1	116.1	116.1	111.3	116.1	111.3
75°	48.4	48.4	48.4	48.4	48.4	48.4	48.4	43.5
77.5°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
80°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	4.8	4.8	4.8	4.8	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)