

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: P252533

Luminaire Tested: **LD6B70D010TE EU6B60708035 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252533
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 EU6B60708035 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6172.0 lumens
Efficiency: N/A
Efficacy: 77.7 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

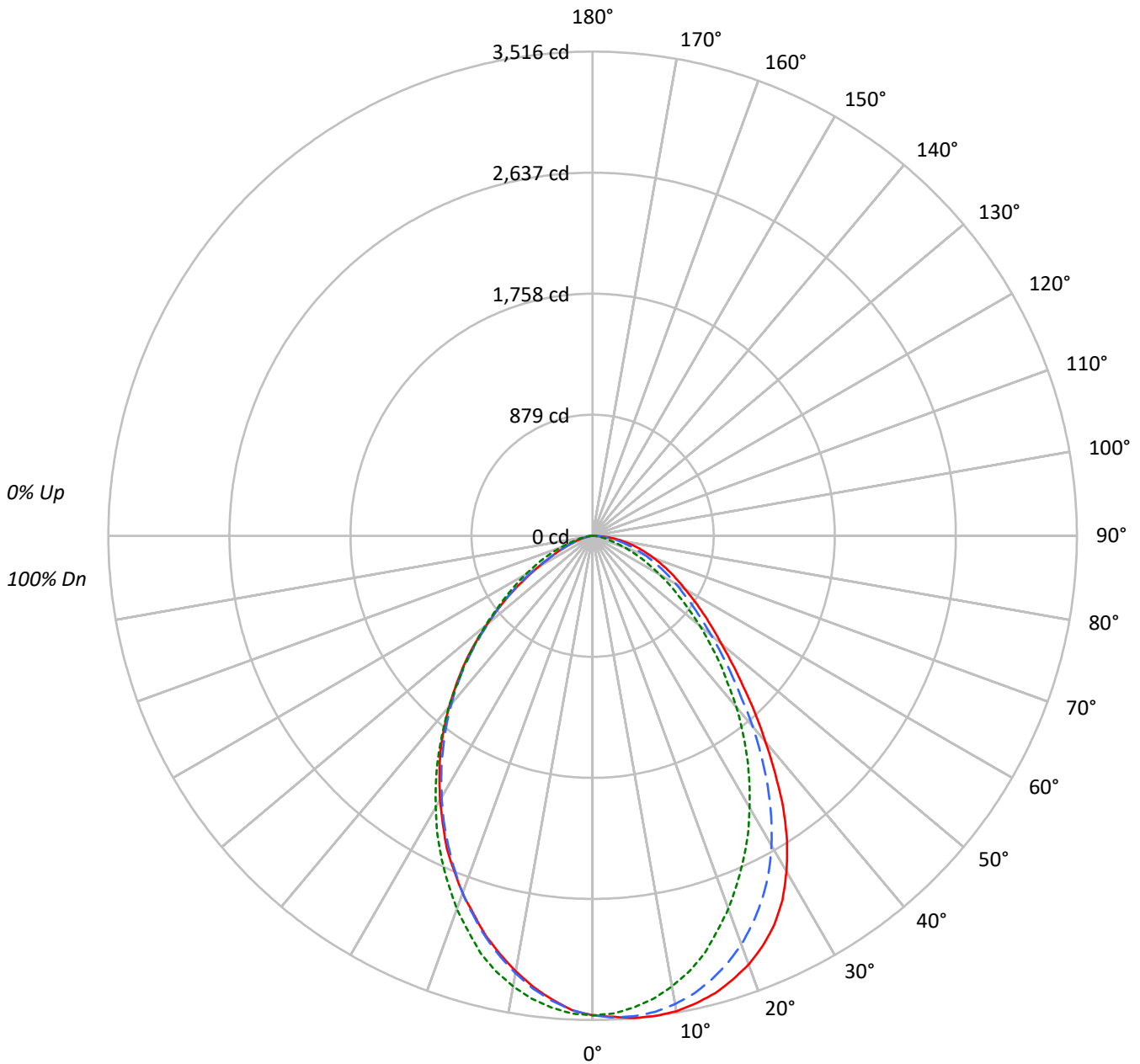
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	227161	227161	227161
5°	230249	225180	221382
10°	232269	220093	212726
15°	232237	211988	202842
20°	229993	200111	191717
25°	224536	186592	180323
30°	212033	171594	166856
35°	192197	155601	153681
40°	165979	138386	137977
45°	142336	120469	121364
50°	123694	103080	101608
55°	111116	86911	81406
60°	100966	73200	59943
65°	94816	60468	44042
70°	90397	47039	32294
75°	86561	34130	21930
80°	81754	23632	14540
85°	72385	14447	7261



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.7	5.3
10°-20°	892.1	14.5
20°-30°	1238.4	20.1
30°-40°	1282.7	20.8
40°-50°	1054.1	17.1
50°-60°	724.5	11.7
60°-70°	416.5	6.7
70°-80°	191.4	3.1
80°-90°	46.6	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°	2456.1	39.8
0°-40°	3738.9	60.6
0°-60°	5517.5	89.4
0°-90°	6172.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6172.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3482	3482	3482	3482	3482	
5°	3516	3501	3438	3390	3380	335
15°	3438	3337	3139	3013	3003	968
25°	3119	2911	2592	2481	2505	1427
35°	2413	2215	1954	1896	1930	1496
45°	1543	1427	1306	1291	1315	1201
55°	977	885	764	721	716	879
65°	614	537	392	276	285	611
75°	343	271	135	87	87	363
85°	97	68	19	10	10	108
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°	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9
2.5°	3496.4	3525.4	3506.1	3501.3	3510.9	3510.9	3510.9	3496.4	3506.1	3491.6	3501.3
5°	3515.8	3540.0	3520.6	3510.9	3520.6	3525.4	3510.9	3501.3	3515.8	3496.4	3501.3
7.5°	3515.8	3540.0	3520.6	3515.8	3520.6	3520.6	3515.8	3496.4	3506.1	3486.8	3486.8
10°	3506.1	3525.4	3506.1	3496.4	3501.3	3496.4	3496.4	3472.2	3477.1	3452.9	3452.9
12.5°	3477.1	3501.3	3477.1	3467.4	3467.4	3467.4	3452.9	3433.6	3438.4	3409.4	3404.5
15°	3438.4	3457.7	3433.6	3423.9	3423.9	3419.1	3409.4	3380.4	3380.4	3351.3	3336.8
17.5°	3380.4	3399.7	3380.4	3365.9	3361.0	3351.3	3341.7	3312.7	3303.0	3269.1	3254.6
20°	3312.7	3327.2	3307.8	3293.3	3283.6	3274.0	3254.6	3225.6	3215.9	3182.1	3157.9
22.5°	3225.6	3245.0	3215.9	3201.4	3191.8	3177.3	3157.9	3128.9	3114.4	3070.9	3041.8
25°	3119.2	3128.9	3104.7	3090.2	3070.9	3061.2	3046.7	3008.0	2993.5	2945.1	2911.3
27.5°	2983.8	2993.5	2964.5	2954.8	2930.6	2920.9	2901.6	2867.7	2848.4	2800.0	2766.2
30°	2814.6	2824.2	2804.9	2790.4	2771.0	2751.7	2737.2	2703.3	2674.3	2625.9	2596.9
32.5°	2625.9	2640.5	2621.1	2601.8	2567.9	2572.8	2548.6	2514.7	2490.5	2447.0	2413.2
35°	2413.2	2422.8	2398.7	2393.8	2374.5	2355.1	2331.0	2306.8	2292.3	2243.9	2214.9
37.5°	2176.2	2200.4	2176.2	2156.9	2147.2	2132.7	2118.2	2084.3	2074.6	2045.6	2006.9
40°	1948.9	1963.4	1948.9	1929.6	1915.1	1915.1	1895.7	1876.4	1852.2	1823.2	1808.7
42.5°	1745.8	1736.1	1731.3	1721.6	1702.3	1697.4	1692.6	1668.4	1653.9	1624.9	1600.7
45°	1542.7	1547.5	1537.8	1533.0	1518.5	1508.8	1499.2	1479.8	1475.0	1446.0	1426.6
47.5°	1373.4	1368.6	1358.9	1358.9	1349.2	1339.6	1329.9	1315.4	1310.6	1286.4	1267.0
50°	1218.7	1223.5	1218.7	1213.8	1199.3	1194.5	1184.8	1175.1	1165.5	1141.3	1122.0
52.5°	1092.9	1088.1	1083.3	1083.3	1068.8	1063.9	1054.2	1044.6	1034.9	1010.7	996.2
55°	976.9	976.9	972.0	967.2	952.7	947.9	943.0	933.3	918.8	899.5	885.0
57.5°	870.5	870.5	865.6	860.8	851.1	851.1	841.5	831.8	822.1	802.8	783.4
60°	773.8	778.6	773.8	768.9	759.3	759.3	754.4	739.9	735.1	710.9	696.4
62.5°	691.5	691.5	691.5	686.7	681.9	672.2	672.2	657.7	648.0	633.5	614.2
65°	614.2	614.2	614.2	609.3	599.7	594.8	590.0	580.3	570.6	556.1	536.8
67.5°	541.6	541.6	541.6	536.8	527.1	522.3	517.5	512.6	498.1	483.6	464.3
70°	473.9	473.9	469.1	464.3	459.4	454.6	449.7	440.1	430.4	411.1	396.6
72.5°	406.2	406.2	406.2	396.6	391.7	391.7	382.0	377.2	367.5	348.2	333.7
75°	343.4	338.5	338.5	333.7	328.8	324.0	319.2	314.3	299.8	290.2	270.8
77.5°	280.5	280.5	275.7	270.8	270.8	266.0	261.1	251.5	246.6	232.1	217.6
80°	217.6	217.6	217.6	217.6	212.8	207.9	207.9	198.3	193.4	178.9	169.3
82.5°	164.4	159.6	159.6	159.6	154.8	149.9	149.9	145.1	140.2	130.6	120.9
85°	96.7	91.9	91.9	91.9	87.0	87.0	82.2	82.2	77.4	67.7	67.7
87.5°	29.0	29.0	33.9	33.9	29.0	29.0	29.0	29.0	29.0	24.2	24.2
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°	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9
2.5°	3491.6	3506.1	3486.8	3481.9	3501.3	3491.6	3486.8	3477.1	3481.9	3472.2	3457.7
5°	3486.8	3506.1	3481.9	3467.4	3491.6	3477.1	3467.4	3457.7	3457.7	3438.4	3428.7
7.5°	3472.2	3481.9	3457.7	3443.2	3457.7	3443.2	3433.6	3419.1	3414.2	3390.0	3375.5
10°	3433.6	3443.2	3414.2	3394.9	3409.4	3390.0	3375.5	3361.0	3351.3	3322.3	3303.0
12.5°	3380.4	3385.2	3351.3	3327.2	3336.8	3322.3	3298.2	3278.8	3269.1	3240.1	3215.9
15°	3307.8	3312.7	3274.0	3240.1	3249.8	3230.4	3201.4	3182.1	3167.6	3138.6	3104.7
17.5°	3220.8	3215.9	3172.4	3138.6	3143.4	3119.2	3090.2	3061.2	3041.8	3008.0	2983.8
20°	3124.1	3109.5	3061.2	3022.5	3027.3	2998.3	2964.5	2935.5	2911.3	2882.3	2848.4
22.5°	3003.2	2983.8	2940.3	2891.9	2896.8	2872.6	2824.2	2800.0	2775.9	2737.2	2708.2
25°	2872.6	2843.6	2800.0	2751.7	2751.7	2722.7	2684.0	2655.0	2630.8	2592.1	2558.2
27.5°	2717.8	2703.3	2645.3	2606.6	2601.8	2572.8	2538.9	2505.0	2476.0	2442.2	2408.3
30°	2548.6	2524.4	2480.9	2437.3	2427.7	2403.5	2369.6	2331.0	2311.6	2277.8	2248.7
32.5°	2369.6	2345.5	2297.1	2253.6	2248.7	2229.4	2200.4	2161.7	2142.3	2118.2	2098.8
35°	2166.5	2156.9	2108.5	2074.6	2074.6	2055.3	2026.3	1992.4	1977.9	1953.7	1929.6
37.5°	1973.1	1958.6	1915.1	1886.0	1886.0	1861.9	1832.8	1818.3	1803.8	1784.5	1770.0
40°	1770.0	1760.3	1726.5	1697.4	1702.3	1682.9	1663.6	1644.2	1634.6	1624.9	1610.4
42.5°	1581.4	1571.7	1547.5	1523.3	1523.3	1508.8	1489.5	1475.0	1465.3	1450.8	1446.0
45°	1412.1	1397.6	1378.3	1354.1	1354.1	1339.6	1329.9	1320.2	1315.4	1305.7	1291.2
47.5°	1247.7	1238.0	1218.7	1194.5	1194.5	1194.5	1175.1	1160.6	1160.6	1151.0	1146.1
50°	1107.4	1092.9	1078.4	1059.1	1059.1	1049.4	1034.9	1020.4	1020.4	1015.6	1005.9
52.5°	976.9	967.2	947.9	928.5	928.5	918.8	904.3	899.5	894.7	880.2	875.3
55°	865.6	856.0	841.5	817.3	812.4	807.6	793.1	783.4	778.6	764.1	764.1
57.5°	764.1	754.4	730.2	715.7	710.9	701.2	686.7	677.0	672.2	662.5	652.9
60°	677.0	662.5	643.2	623.8	619.0	609.3	594.8	585.2	580.3	561.0	551.3
62.5°	594.8	580.3	561.0	541.6	536.8	527.1	507.8	498.1	488.4	469.1	459.4
65°	517.5	502.9	483.6	464.3	454.6	449.7	430.4	415.9	406.2	391.7	372.4
67.5°	444.9	430.4	411.1	386.9	386.9	372.4	357.9	343.4	328.8	314.3	299.8
70°	377.2	362.7	343.4	324.0	319.2	309.5	295.0	275.7	266.0	246.6	232.1
72.5°	314.3	299.8	280.5	261.1	256.3	246.6	232.1	212.8	198.3	183.8	169.3
75°	256.3	241.8	222.5	207.9	203.1	193.4	178.9	159.6	145.1	135.4	120.9
77.5°	203.1	188.6	174.1	159.6	154.8	145.1	130.6	120.9	106.4	96.7	82.2
80°	154.8	145.1	130.6	120.9	116.1	106.4	96.7	82.2	72.5	62.9	58.0
82.5°	111.2	101.6	91.9	77.4	77.4	67.7	62.9	53.2	43.5	38.7	33.9
85°	62.9	53.2	48.4	43.5	38.7	38.7	33.9	29.0	24.2	19.3	19.3
87.5°	19.3	19.3	14.5	14.5	14.5	14.5	9.7	9.7	9.7	9.7	9.7
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°	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9
2.5°	3457.7	3462.6	3452.9	3462.6	3452.9	3457.7	3448.1	3457.7	3448.1	3457.7	3438.4
5°	3423.9	3423.9	3409.4	3419.1	3409.4	3414.2	3394.9	3399.7	3390.0	3399.7	3380.4
7.5°	3365.9	3370.7	3346.5	3356.2	3341.7	3341.7	3327.2	3332.0	3317.5	3322.3	3307.8
10°	3298.2	3293.3	3269.1	3278.8	3259.5	3259.5	3245.0	3245.0	3225.6	3230.4	3211.1
12.5°	3201.4	3196.6	3167.6	3177.3	3157.9	3157.9	3143.4	3143.4	3124.1	3133.7	3114.4
15°	3090.2	3085.4	3056.4	3061.2	3041.8	3041.8	3022.5	3027.3	3012.8	3022.5	3003.2
17.5°	2964.5	2959.6	2930.6	2935.5	2911.3	2916.1	2901.6	2896.8	2887.1	2891.9	2877.4
20°	2833.9	2824.2	2795.2	2800.0	2790.4	2775.9	2766.2	2771.0	2761.4	2771.0	2756.5
22.5°	2698.5	2679.1	2655.0	2655.0	2645.3	2645.3	2630.8	2640.5	2621.1	2635.6	2625.9
25°	2543.7	2529.2	2509.9	2519.6	2500.2	2500.2	2485.7	2490.5	2480.9	2490.5	2480.9
27.5°	2393.8	2384.1	2355.1	2364.8	2350.3	2355.1	2340.6	2345.5	2340.6	2350.3	2340.6
30°	2234.2	2229.4	2210.1	2210.1	2205.2	2200.4	2195.5	2195.5	2190.7	2205.2	2195.5
32.5°	2084.3	2069.8	2050.5	2065.0	2040.8	2055.3	2045.6	2055.3	2045.6	2055.3	2050.5
35°	1929.6	1924.7	1900.5	1905.4	1900.5	1900.5	1895.7	1895.7	1895.7	1910.2	1910.2
37.5°	1765.1	1760.3	1745.8	1750.6	1741.0	1736.1	1736.1	1745.8	1745.8	1755.5	1755.5
40°	1605.6	1610.4	1595.9	1595.9	1591.0	1591.0	1591.0	1600.7	1595.9	1605.6	1600.7
42.5°	1446.0	1446.0	1431.5	1436.3	1431.5	1436.3	1436.3	1446.0	1446.0	1450.8	1446.0
45°	1296.0	1296.0	1291.2	1296.0	1286.4	1291.2	1286.4	1296.0	1291.2	1296.0	1296.0
47.5°	1146.1	1146.1	1146.1	1141.3	1141.3	1141.3	1141.3	1141.3	1136.5	1146.1	1141.3
50°	1005.9	1010.7	1005.9	1005.9	1001.1	1005.9	1001.1	1001.1	991.4	996.2	996.2
52.5°	880.2	880.2	870.5	870.5	870.5	865.6	865.6	865.6	860.8	860.8	851.1
55°	759.3	759.3	749.6	749.6	744.7	739.9	735.1	735.1	720.6	720.6	706.1
57.5°	648.0	643.2	628.7	628.7	619.0	614.2	609.3	604.5	594.8	585.2	580.3
60°	546.5	536.8	527.1	522.3	512.6	502.9	493.3	483.6	473.9	469.1	464.3
62.5°	449.7	435.2	425.6	420.7	411.1	396.6	386.9	377.2	367.5	362.7	353.0
65°	362.7	348.2	333.7	328.8	319.2	309.5	295.0	285.3	275.7	270.8	270.8
67.5°	285.3	270.8	251.5	251.5	241.8	232.1	222.5	212.8	207.9	212.8	212.8
70°	212.8	203.1	188.6	183.8	174.1	164.4	159.6	159.6	159.6	164.4	159.6
72.5°	159.6	145.1	135.4	130.6	125.7	120.9	120.9	120.9	116.1	120.9	120.9
75°	111.2	101.6	91.9	91.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0
77.5°	77.4	67.7	62.9	62.9	62.9	58.0	58.0	58.0	58.0	58.0	58.0
80°	48.4	48.4	43.5	43.5	38.7	38.7	38.7	38.7	38.7	38.7	38.7
82.5°	29.0	29.0	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
85°	14.5	14.5	14.5	14.5	14.5	9.7	9.7	9.7	9.7	9.7	9.7
87.5°	4.8	4.8	4.8	4.8	4.8	9.7	9.7	9.7	9.7	9.7	9.7
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: P252533

CATALOG NUMBER: LD6B70D010TE EU6B60708035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9
2.5°	3438.4	3452.9	3433.6	3448.1	3443.2	3438.4	3428.7	3448.1
5°	3380.4	3385.2	3365.9	3385.2	3380.4	3370.7	3361.0	3380.4
7.5°	3298.2	3312.7	3288.5	3307.8	3303.0	3293.3	3283.6	3303.0
10°	3206.3	3220.8	3201.4	3215.9	3215.9	3206.3	3191.8	3211.1
12.5°	3104.7	3114.4	3095.0	3114.4	3109.5	3099.9	3095.0	3109.5
15°	2993.5	3008.0	2988.6	3003.2	2998.3	2993.5	2988.6	3003.2
17.5°	2872.6	2887.1	2872.6	2887.1	2887.1	2872.6	2867.7	2877.4
20°	2751.7	2761.4	2746.8	2761.4	2756.5	2756.5	2746.8	2761.4
22.5°	2616.3	2630.8	2621.1	2630.8	2625.9	2625.9	2621.1	2630.8
25°	2480.9	2495.4	2480.9	2495.4	2490.5	2490.5	2480.9	2505.0
27.5°	2345.5	2355.1	2340.6	2360.0	2355.1	2345.5	2350.3	2355.1
30°	2200.4	2210.1	2200.4	2214.9	2214.9	2214.9	2205.2	2214.9
32.5°	2055.3	2069.8	2055.3	2069.8	2065.0	2065.0	2060.1	2069.8
35°	1910.2	1915.1	1905.4	1919.9	1919.9	1924.7	1915.1	1929.6
37.5°	1760.3	1765.1	1760.3	1765.1	1774.8	1760.3	1770.0	1774.8
40°	1605.6	1615.2	1610.4	1615.2	1615.2	1620.1	1615.2	1620.1
42.5°	1450.8	1460.5	1450.8	1465.3	1460.5	1460.5	1465.3	1465.3
45°	1291.2	1305.7	1296.0	1305.7	1310.6	1305.7	1305.7	1315.4
47.5°	1141.3	1151.0	1146.1	1151.0	1151.0	1151.0	1151.0	1160.6
50°	991.4	996.2	996.2	1001.1	1001.1	1005.9	996.2	1001.1
52.5°	841.5	851.1	851.1	851.1	846.3	851.1	851.1	851.1
55°	706.1	710.9	701.2	710.9	710.9	706.1	706.1	715.7
57.5°	575.5	575.5	575.5	575.5	575.5	570.6	575.5	575.5
60°	454.6	459.4	454.6	454.6	454.6	454.6	449.7	459.4
62.5°	353.0	353.0	348.2	353.0	353.0	353.0	357.9	357.9
65°	275.7	280.5	275.7	280.5	280.5	280.5	280.5	285.3
67.5°	217.6	217.6	217.6	217.6	217.6	217.6	217.6	217.6
70°	164.4	164.4	164.4	169.3	164.4	164.4	164.4	169.3
72.5°	120.9	120.9	120.9	120.9	120.9	120.9	125.7	125.7
75°	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
77.5°	58.0	58.0	58.0	62.9	58.0	62.9	58.0	58.0
80°	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
82.5°	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
85°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
87.5°	9.7	9.7	9.7	9.7	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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)