

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: P252335

Luminaire Tested: **LD6B70D010TE EU6B60709730 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B70D010TE EU6B60709730 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4890.0 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

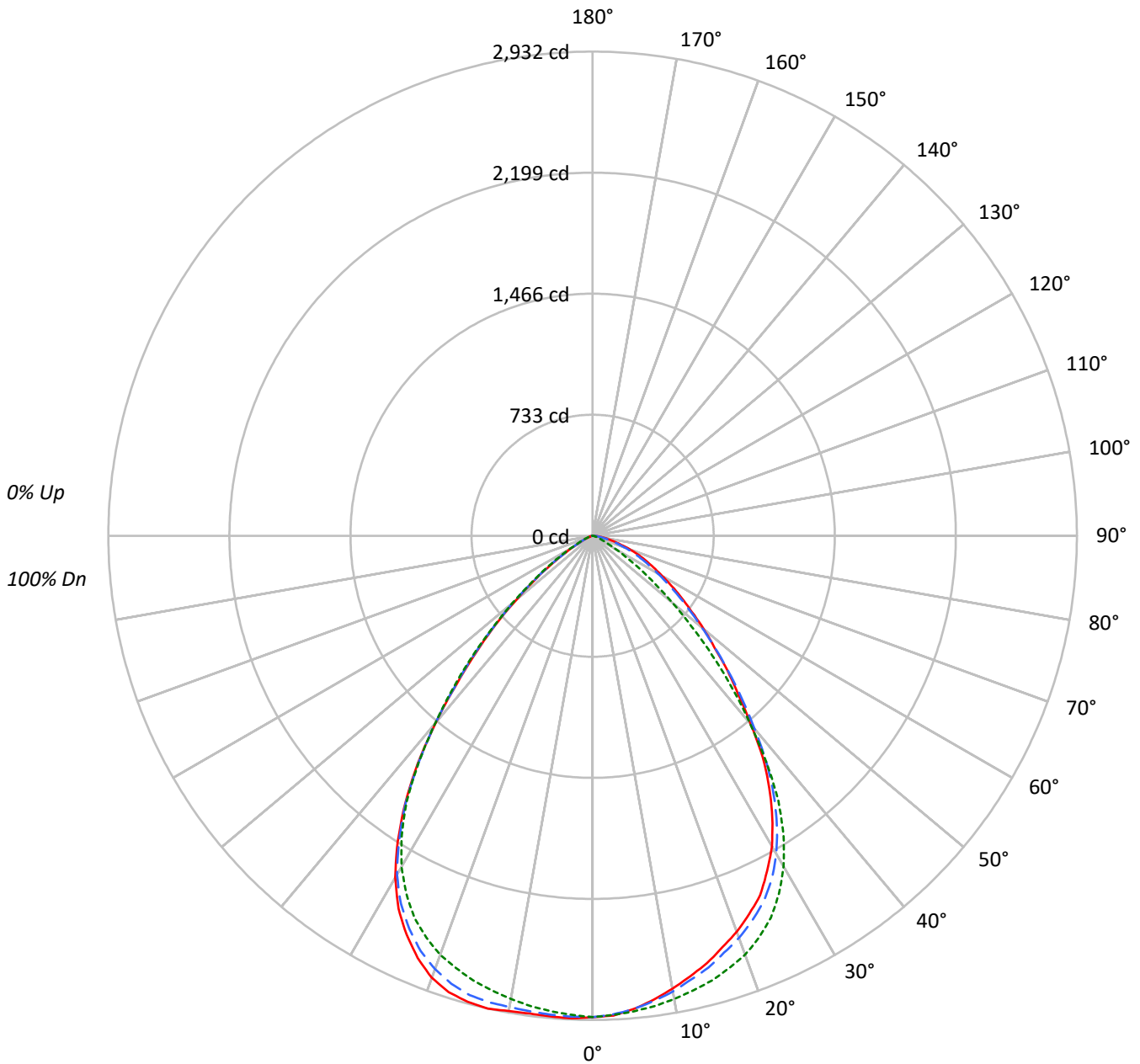
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58					58			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52					52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47					47			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	190157	190157	190157
5°	188349	189272	191348
10°	184465	188665	193561
15°	180938	188307	197344
20°	177193	187455	197723
25°	172822	183720	191826
30°	163624	174231	180062
35°	148592	156166	157568
40°	126820	126215	125619
45°	106528	94515	91591
50°	88962	63953	60735
55°	74877	39242	35636
60°	63388	20668	17915
65°	54879	10868	8691
70°	45666	6714	4692
75°	33727	4436	2672
80°	26450	2630	1315
85°	21109	2620	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.7	5.6
10°-20°	786.5	16.1
20°-30°	1161.4	23.8
30°-40°	1197.0	24.5
40°-50°	826.7	16.9
50°-60°	407.5	8.3
60°-70°	165.1	3.4
70°-80°	58.8	1.2
80°-90°	12.1	0.2
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°	2222.7	45.5
0°-40°	3419.6	69.9
0°-60°	4653.9	95.2
0°-90°	4890.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4890.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2915	2915	2915	2915	2915	
5°	2876	2876	2890	2911	2922	272
15°	2679	2707	2788	2880	2922	754
25°	2401	2447	2552	2626	2665	1098
35°	1866	1912	1961	1971	1978	1156
45°	1155	1162	1024	1010	993	892
55°	658	634	345	324	313	595
65°	356	320	70	56	56	353
75°	134	113	18	11	11	150
85°	28	21	4	0	0	34
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°	2914.7	2914.7	2914.7	2914.7	2914.7	2914.7	2914.7	2914.7	2914.7	2914.7	2914.7
2.5°	2907.7	2897.1	2904.2	2890.1	2907.7	2890.1	2893.6	2897.1	2893.6	2897.1	2900.7
5°	2876.0	2865.5	2876.0	2858.4	2876.0	2865.5	2865.5	2869.0	2869.0	2872.5	2876.0
7.5°	2833.8	2823.2	2833.8	2816.2	2837.3	2826.7	2826.7	2833.8	2830.3	2833.8	2840.8
10°	2784.5	2770.4	2781.0	2770.4	2791.5	2777.5	2784.5	2784.5	2784.5	2795.1	2802.1
12.5°	2731.7	2717.6	2731.7	2714.1	2735.2	2724.6	2728.2	2738.7	2742.3	2749.3	2752.8
15°	2678.9	2661.3	2668.3	2657.8	2678.9	2668.3	2671.8	2685.9	2685.9	2696.5	2707.0
17.5°	2612.0	2597.9	2612.0	2597.9	2615.5	2608.5	2615.5	2626.1	2626.1	2636.6	2647.2
20°	2552.2	2538.1	2548.6	2538.1	2559.2	2548.6	2552.2	2566.2	2569.8	2580.3	2590.9
22.5°	2478.2	2467.7	2474.7	2464.2	2485.3	2478.2	2481.8	2495.8	2499.4	2506.4	2524.0
25°	2400.8	2379.7	2390.2	2383.2	2404.3	2393.7	2400.8	2414.9	2421.9	2432.5	2446.6
27.5°	2288.1	2277.6	2284.6	2284.6	2302.2	2291.7	2295.2	2309.3	2319.8	2330.4	2348.0
30°	2172.0	2154.4	2161.4	2164.9	2179.0	2172.0	2179.0	2193.1	2196.6	2210.7	2224.8
32.5°	2024.1	2017.1	2031.2	2024.1	2031.2	2031.2	2034.7	2045.2	2052.3	2059.3	2076.9
35°	1865.7	1851.6	1865.7	1858.7	1876.3	1865.7	1876.3	1886.8	1886.8	1900.9	1911.5
37.5°	1693.2	1675.6	1682.7	1682.7	1689.7	1686.2	1686.2	1703.8	1707.3	1717.9	1728.4
40°	1489.1	1482.0	1496.1	1492.6	1496.1	1496.1	1499.6	1510.2	1517.2	1520.7	1524.3
42.5°	1306.0	1309.5	1313.0	1313.0	1313.0	1313.0	1313.0	1327.1	1323.6	1334.2	1337.7
45°	1154.6	1140.6	1147.6	1144.1	1154.6	1144.1	1154.6	1165.2	1158.2	1168.7	1161.7
47.5°	999.7	999.7	999.7	996.2	1003.3	999.7	1006.8	1010.3	1010.3	1010.3	1006.8
50°	876.5	866.0	869.5	869.5	873.0	869.5	876.5	880.1	880.1	873.0	858.9
52.5°	756.8	753.3	753.3	760.4	760.4	756.8	756.8	756.8	756.8	746.3	739.2
55°	658.3	651.2	654.8	654.8	654.8	654.8	658.3	654.8	654.8	644.2	633.6
57.5°	570.3	563.2	563.2	563.2	566.8	563.2	563.2	563.2	559.7	549.2	535.1
60°	485.8	482.3	485.8	485.8	489.3	485.8	485.8	485.8	478.7	468.2	454.1
62.5°	415.4	415.4	415.4	418.9	418.9	415.4	415.4	411.9	408.3	394.3	380.2
65°	355.5	352.0	355.5	355.5	359.1	359.1	355.5	352.0	348.5	334.4	320.3
67.5°	295.7	292.2	295.7	295.7	299.2	295.7	295.7	295.7	285.1	278.1	264.0
70°	239.4	235.9	235.9	235.9	239.4	232.3	235.9	235.9	228.8	218.3	204.2
72.5°	183.1	183.1	183.1	183.1	183.1	183.1	179.5	179.5	172.5	161.9	154.9
75°	133.8	133.8	137.3	137.3	133.8	133.8	133.8	130.2	126.7	119.7	112.6
77.5°	98.6	98.6	98.6	98.6	95.0	95.0	95.0	91.5	88.0	84.5	77.4
80°	70.4	70.4	70.4	66.9	70.4	66.9	66.9	66.9	59.8	56.3	52.8
82.5°	49.3	45.8	45.8	45.8	45.8	45.8	45.8	42.2	42.2	38.7	35.2
85°	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	24.6	21.1	21.1
87.5°	14.1	17.6	17.6	17.6	17.6	17.6	17.6	14.1	14.1	14.1	10.6
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°	2914.7	2914.7	2914.7	2914.7	2914.7	2914.7	2914.7	2914.7	2914.7	2914.7	2914.7
2.5°	2900.7	2900.7	2907.7	2897.1	2914.7	2904.2	2900.7	2918.3	2907.7	2904.2	2911.2
5°	2876.0	2879.5	2883.1	2876.0	2893.6	2883.1	2883.1	2900.7	2893.6	2890.1	2900.7
7.5°	2844.3	2847.9	2854.9	2851.4	2865.5	2858.4	2861.9	2879.5	2872.5	2872.5	2883.1
10°	2805.6	2812.7	2819.7	2819.7	2837.3	2830.3	2830.3	2851.4	2844.3	2847.9	2861.9
12.5°	2759.9	2770.4	2781.0	2784.5	2802.1	2791.5	2795.1	2819.7	2816.2	2819.7	2833.8
15°	2710.6	2724.6	2735.2	2735.2	2756.3	2745.8	2756.3	2781.0	2773.9	2788.0	2805.6
17.5°	2654.2	2668.3	2682.4	2685.9	2707.0	2700.0	2714.1	2738.7	2738.7	2745.8	2766.9
20°	2601.4	2619.0	2626.1	2636.6	2657.8	2654.2	2661.3	2689.4	2689.4	2700.0	2721.1
22.5°	2531.0	2548.6	2562.7	2573.3	2590.9	2590.9	2601.4	2626.1	2626.1	2633.1	2654.2
25°	2453.6	2474.7	2485.3	2495.8	2513.4	2509.9	2520.5	2541.6	2545.1	2552.2	2573.3
27.5°	2355.0	2372.6	2386.7	2393.7	2418.4	2404.3	2414.9	2439.5	2436.0	2443.0	2460.6
30°	2231.8	2249.4	2263.5	2263.5	2284.6	2284.6	2295.2	2305.7	2305.7	2312.8	2326.9
32.5°	2087.5	2108.6	2108.6	2119.2	2133.3	2119.2	2133.3	2147.3	2140.3	2150.9	2161.4
35°	1922.0	1932.6	1936.1	1936.1	1946.7	1943.2	1939.6	1950.2	1943.2	1960.8	1971.3
37.5°	1721.4	1735.5	1728.4	1735.5	1731.9	1721.4	1721.4	1739.0	1724.9	1728.4	1739.0
40°	1527.8	1527.8	1524.3	1506.7	1510.2	1499.6	1496.1	1499.6	1485.5	1482.0	1496.1
42.5°	1327.1	1323.6	1313.0	1288.4	1291.9	1274.3	1260.2	1260.2	1253.2	1249.7	1253.2
45°	1147.6	1137.0	1119.4	1091.3	1084.2	1070.1	1042.0	1034.9	1024.4	1024.4	1027.9
47.5°	982.1	968.1	939.9	908.2	890.6	873.0	844.9	834.3	816.7	809.7	816.7
50°	844.9	820.2	785.0	739.2	721.6	700.5	672.4	654.8	637.2	630.1	626.6
52.5°	718.1	682.9	647.7	591.4	577.3	556.2	517.5	499.9	482.3	468.2	468.2
55°	609.0	577.3	528.0	475.2	454.1	433.0	394.3	369.6	352.0	345.0	337.9
57.5°	510.4	475.2	429.5	373.1	352.0	330.9	292.2	267.5	249.9	239.4	232.3
60°	429.5	390.7	345.0	295.7	271.1	249.9	211.2	186.6	169.0	158.4	151.4
62.5°	352.0	320.3	274.6	228.8	207.7	186.6	154.9	130.2	112.6	105.6	95.0
65°	295.7	264.0	221.8	183.1	165.5	144.3	116.2	95.0	81.0	70.4	63.4
67.5°	239.4	214.7	179.5	144.3	126.7	112.6	88.0	70.4	56.3	49.3	45.8
70°	190.1	165.5	137.3	109.1	98.6	84.5	66.9	49.3	42.2	35.2	31.7
72.5°	140.8	123.2	102.1	81.0	70.4	63.4	45.8	38.7	28.2	24.6	21.1
75°	102.1	88.0	73.9	56.3	49.3	45.8	35.2	24.6	21.1	17.6	14.1
77.5°	70.4	63.4	49.3	38.7	35.2	31.7	24.6	17.6	14.1	10.6	10.6
80°	45.8	38.7	31.7	24.6	24.6	21.1	14.1	10.6	10.6	7.0	7.0
82.5°	28.2	24.6	21.1	17.6	14.1	14.1	10.6	7.0	7.0	3.5	3.5
85°	17.6	14.1	10.6	10.6	7.0	7.0	7.0	3.5	3.5	3.5	3.5
87.5°	7.0	7.0	7.0	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0
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°	2914.7	2914.7	2914.7	2914.7	2914.7	2914.7	2914.7	2914.7	2914.7	2914.7	2914.7
2.5°	2911.2	2911.2	2918.3	2907.7	2914.7	2914.7	2921.8	2907.7	2914.7	2918.3	2925.3
5°	2897.1	2900.7	2907.7	2904.2	2907.7	2907.7	2914.7	2897.1	2911.2	2911.2	2921.8
7.5°	2883.1	2883.1	2890.1	2886.6	2893.6	2897.1	2904.2	2890.1	2904.2	2904.2	2914.7
10°	2865.5	2865.5	2876.0	2872.5	2883.1	2886.6	2897.1	2883.1	2897.1	2900.7	2911.2
12.5°	2840.8	2844.3	2854.9	2854.9	2865.5	2872.5	2883.1	2876.0	2893.6	2897.1	2911.2
15°	2812.7	2819.7	2833.8	2830.3	2840.8	2851.4	2865.5	2854.9	2879.5	2886.6	2900.7
17.5°	2777.5	2784.5	2795.1	2795.1	2805.6	2812.7	2830.3	2823.2	2844.3	2847.9	2865.5
20°	2724.6	2735.2	2749.3	2745.8	2756.3	2763.4	2777.5	2770.4	2791.5	2798.6	2816.2
22.5°	2661.3	2668.3	2678.9	2678.9	2689.4	2696.5	2710.6	2700.0	2721.1	2724.6	2738.7
25°	2576.8	2583.8	2590.9	2594.4	2605.0	2608.5	2615.5	2608.5	2626.1	2629.6	2647.2
27.5°	2467.7	2471.2	2481.8	2481.8	2488.8	2492.3	2502.9	2488.8	2513.4	2513.4	2524.0
30°	2337.4	2333.9	2348.0	2340.9	2348.0	2348.0	2358.5	2351.5	2369.1	2362.1	2372.6
32.5°	2164.9	2172.0	2172.0	2164.9	2179.0	2175.5	2175.5	2168.5	2179.0	2182.5	2189.6
35°	1964.3	1974.8	1974.8	1978.4	1981.9	1971.3	1974.8	1953.7	1971.3	1974.8	1978.4
37.5°	1746.0	1735.5	1742.5	1731.9	1749.5	1728.4	1728.4	1714.3	1728.4	1728.4	1731.9
40°	1496.1	1492.6	1499.6	1492.6	1489.1	1485.5	1478.5	1467.9	1482.0	1475.0	1485.5
42.5°	1260.2	1256.7	1256.7	1249.7	1246.2	1246.2	1239.1	1232.1	1228.6	1228.6	1246.2
45°	1017.3	1024.4	1017.3	1013.8	1020.9	1013.8	1017.3	1003.3	1010.3	1003.3	1010.3
47.5°	813.2	816.7	809.7	802.6	813.2	802.6	802.6	792.0	806.1	806.1	799.1
50°	630.1	626.6	619.6	626.6	623.1	623.1	623.1	612.5	619.6	609.0	616.0
52.5°	464.7	461.1	461.1	457.6	461.1	457.6	457.6	454.1	454.1	450.6	454.1
55°	337.9	334.4	327.4	327.4	327.4	330.9	327.4	323.9	323.9	320.3	323.9
57.5°	228.8	221.8	221.8	221.8	221.8	218.3	218.3	214.7	218.3	214.7	218.3
60°	147.8	147.8	140.8	140.8	140.8	140.8	140.8	137.3	140.8	140.8	140.8
62.5°	91.5	91.5	88.0	84.5	88.0	84.5	84.5	84.5	88.0	84.5	88.0
65°	59.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
67.5°	42.2	38.7	38.7	38.7	38.7	38.7	38.7	35.2	38.7	38.7	38.7
70°	28.2	28.2	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
72.5°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
75°	14.1	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
77.5°	10.6	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
80°	7.0	7.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
85°	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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: P252335

CATALOG NUMBER: LD6B70D010TE EU6B60709730 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2914.7	2914.7	2914.7	2914.7	2914.7	2914.7	2914.7	2914.7
2.5°	2914.7	2918.3	2911.2	2914.7	2907.7	2914.7	2918.3	2925.3
5°	2907.7	2911.2	2904.2	2911.2	2904.2	2911.2	2914.7	2921.8
7.5°	2900.7	2907.7	2900.7	2907.7	2900.7	2907.7	2911.2	2918.3
10°	2900.7	2911.2	2904.2	2914.7	2904.2	2911.2	2918.3	2921.8
12.5°	2900.7	2911.2	2907.7	2914.7	2911.2	2918.3	2925.3	2932.3
15°	2893.6	2904.2	2897.1	2907.7	2904.2	2907.7	2921.8	2921.8
17.5°	2854.9	2865.5	2865.5	2872.5	2872.5	2883.1	2890.1	2897.1
20°	2805.6	2816.2	2812.7	2823.2	2823.2	2833.8	2840.8	2847.9
22.5°	2731.7	2745.8	2742.3	2752.8	2749.3	2756.3	2770.4	2766.9
25°	2636.6	2654.2	2650.7	2657.8	2654.2	2654.2	2661.3	2664.8
27.5°	2520.5	2531.0	2527.5	2534.6	2527.5	2534.6	2541.6	2545.1
30°	2369.1	2376.1	2372.6	2376.1	2372.6	2379.7	2383.2	2390.2
32.5°	2186.1	2196.6	2186.1	2193.1	2189.6	2189.6	2203.7	2196.6
35°	1967.8	1971.3	1974.8	1974.8	1967.8	1971.3	1978.4	1978.4
37.5°	1724.9	1742.5	1721.4	1731.9	1728.4	1728.4	1728.4	1739.0
40°	1471.5	1475.0	1467.9	1467.9	1467.9	1464.4	1478.5	1475.0
42.5°	1232.1	1235.6	1232.1	1221.5	1225.0	1225.0	1235.6	1221.5
45°	999.7	1006.8	1003.3	1003.3	996.2	996.2	999.7	992.7
47.5°	792.0	799.1	788.5	792.0	785.0	792.0	788.5	795.6
50°	602.0	609.0	605.5	609.0	609.0	602.0	612.5	598.4
52.5°	450.6	454.1	450.6	447.1	443.5	443.5	450.6	447.1
55°	320.3	316.8	316.8	316.8	320.3	320.3	316.8	313.3
57.5°	214.7	214.7	211.2	211.2	214.7	207.7	211.2	207.7
60°	137.3	137.3	137.3	137.3	133.8	137.3	137.3	137.3
62.5°	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
65°	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
67.5°	35.2	38.7	38.7	38.7	35.2	35.2	35.2	35.2
70°	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
72.5°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
75°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
77.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	3.5	3.5	3.5	3.5	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)