

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: P252717

Luminaire Tested: **LD6B50D010TE EU6B30508050 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B50D010TE EU6B30508050 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5166.0 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

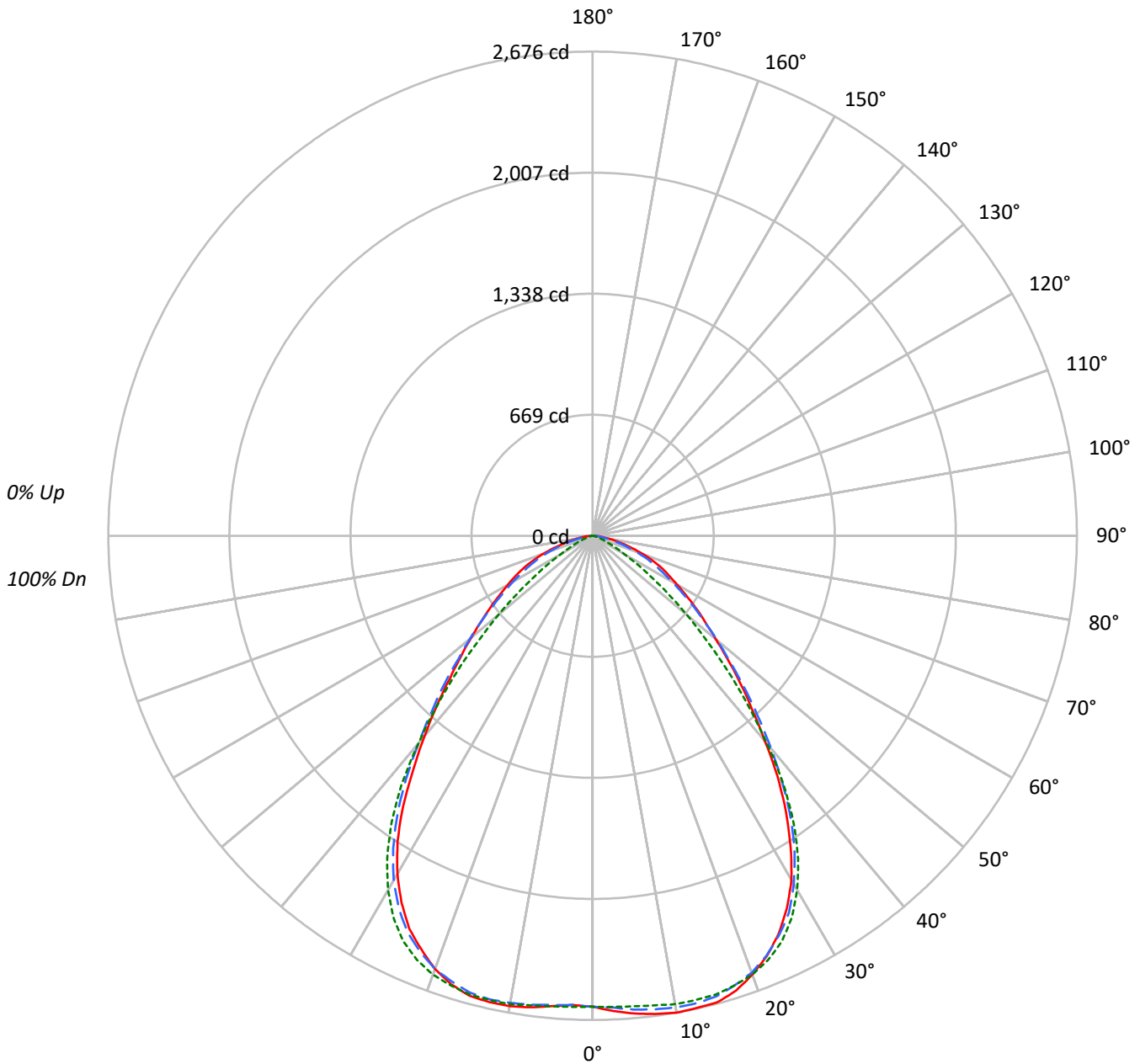
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	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	39	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	169802	169802	169802
5°	173587	170935	170935
10°	177304	174130	174866
15°	180270	177284	177784
20°	179172	179172	176867
25°	174902	178084	172519
30°	165568	170284	162517
35°	148361	154223	145430
40°	126037	127604	122902
45°	106657	97486	102921
50°	90048	68754	88931
55°	79143	44383	78301
60°	70134	26422	70616
65°	64790	15916	64790
70°	56176	9137	54765
75°	44541	5571	41768
80°	33212	4133	31822
85°	30316	2770	27547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.6	4.9
10°-20°	741.6	14.4
20°-30°	1115.4	21.6
30°-40°	1172.7	22.7
40°-50°	876.0	17.0
50°-60°	545.4	10.6
60°-70°	310.2	6.0
70°-80°	127.7	2.5
80°-90°	26.4	0.5
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°	2107.6	40.8
0°-40°	3280.3	63.5
0°-60°	4701.7	91.0
0°-90°	5166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5166.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2603	2603	2603	2603	2603	
5°	2651	2628	2610	2603	2610	254
15°	2669	2636	2625	2614	2632	750
25°	2430	2437	2474	2419	2397	1112
35°	1863	1911	1936	1881	1826	1156
45°	1156	1182	1057	1160	1116	896
55°	696	681	390	670	688	626
65°	420	376	103	376	420	413
75°	177	140	22	136	166	192
85°	40	26	4	22	37	45
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°	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7
2.5°	2628.5	2624.8	2628.5	2621.1	2617.5	2617.5	2621.1	2613.8	2610.1	2613.8	2610.1
5°	2650.6	2643.2	2646.9	2643.2	2635.9	2635.9	2639.6	2628.5	2628.5	2632.2	2628.5
7.5°	2665.3	2665.3	2665.3	2658.0	2654.3	2650.6	2658.0	2646.9	2643.2	2643.2	2639.6
10°	2676.4	2672.7	2676.4	2669.0	2661.6	2658.0	2665.3	2658.0	2650.6	2658.0	2646.9
12.5°	2672.7	2672.7	2672.7	2669.0	2661.6	2658.0	2665.3	2654.3	2650.6	2654.3	2646.9
15°	2669.0	2658.0	2661.6	2658.0	2646.9	2646.9	2650.6	2639.6	2632.2	2643.2	2635.9
17.5°	2635.9	2628.5	2632.2	2624.8	2617.5	2613.8	2617.5	2613.8	2606.4	2613.8	2606.4
20°	2580.7	2580.7	2584.3	2577.0	2569.6	2565.9	2573.3	2565.9	2558.6	2569.6	2569.6
22.5°	2514.4	2514.4	2514.4	2510.7	2507.0	2507.0	2507.0	2503.3	2499.7	2507.0	2510.7
25°	2429.7	2426.0	2429.7	2433.4	2429.7	2426.0	2429.7	2429.7	2422.4	2437.1	2437.1
27.5°	2323.0	2323.0	2330.3	2326.6	2326.6	2323.0	2330.3	2330.3	2326.6	2337.7	2348.7
30°	2197.8	2190.4	2197.8	2197.8	2201.5	2201.5	2205.2	2205.2	2205.2	2216.2	2223.6
32.5°	2035.8	2039.5	2050.5	2046.9	2043.2	2054.2	2054.2	2061.6	2065.3	2072.6	2076.3
35°	1862.8	1866.5	1866.5	1870.1	1877.5	1870.1	1888.6	1884.9	1888.6	1903.3	1910.6
37.5°	1678.7	1667.7	1686.1	1678.7	1682.4	1682.4	1689.8	1693.4	1704.5	1722.9	1722.9
40°	1479.9	1483.6	1491.0	1494.6	1498.3	1498.3	1498.3	1509.4	1513.1	1535.1	1531.5
42.5°	1306.9	1306.9	1314.3	1317.9	1317.9	1317.9	1317.9	1329.0	1336.3	1343.7	1351.1
45°	1156.0	1144.9	1152.3	1152.3	1159.6	1156.0	1163.3	1170.7	1174.4	1185.4	1181.7
47.5°	1012.4	1008.7	1012.4	1016.1	1012.4	1016.1	1019.7	1023.4	1027.1	1027.1	1027.1
50°	887.2	887.2	890.9	894.6	894.6	894.6	894.6	898.3	898.3	905.6	898.3
52.5°	784.1	787.8	787.8	784.1	787.8	787.8	791.5	791.5	787.8	787.8	776.8
55°	695.8	692.1	695.8	692.1	695.8	695.8	692.1	692.1	688.4	684.7	681.1
57.5°	611.1	611.1	611.1	611.1	607.4	611.1	607.4	603.7	603.7	596.4	585.3
60°	537.5	537.5	537.5	537.5	537.5	533.8	537.5	533.8	526.4	519.1	504.4
62.5°	474.9	471.2	474.9	471.2	471.2	467.5	467.5	463.9	456.5	449.1	434.4
65°	419.7	423.4	419.7	419.7	416.0	412.3	412.3	408.6	397.6	390.2	375.5
67.5°	360.8	357.1	357.1	357.1	353.4	353.4	353.4	346.1	338.7	327.6	312.9
70°	294.5	294.5	294.5	290.8	290.8	287.1	287.1	283.5	276.1	268.7	250.3
72.5°	231.9	231.9	231.9	224.6	228.2	224.6	224.6	217.2	213.5	202.5	191.4
75°	176.7	176.7	173.0	173.0	169.3	165.7	165.7	162.0	158.3	150.9	139.9
77.5°	128.8	128.8	128.8	125.2	121.5	117.8	117.8	114.1	110.4	106.8	99.4
80°	88.4	88.4	88.4	88.4	84.7	81.0	81.0	77.3	77.3	73.6	66.3
82.5°	58.9	58.9	58.9	58.9	55.2	55.2	55.2	51.5	47.9	47.9	40.5
85°	40.5	40.5	36.8	36.8	36.8	36.8	33.1	33.1	29.5	25.8	25.8
87.5°	22.1	22.1	22.1	22.1	18.4	18.4	18.4	18.4	14.7	14.7	11.0
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°	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7
2.5°	2621.1	2621.1	2617.5	2606.4	2610.1	2606.4	2610.1	2606.4	2595.4	2606.4	2595.4
5°	2635.9	2639.6	2632.2	2617.5	2621.1	2617.5	2617.5	2613.8	2602.7	2610.1	2602.7
7.5°	2650.6	2646.9	2643.2	2628.5	2632.2	2628.5	2628.5	2621.1	2610.1	2617.5	2606.4
10°	2658.0	2658.0	2650.6	2635.9	2635.9	2632.2	2635.9	2632.2	2617.5	2628.5	2621.1
12.5°	2658.0	2654.3	2654.3	2635.9	2639.6	2635.9	2639.6	2632.2	2621.1	2628.5	2624.8
15°	2646.9	2646.9	2643.2	2624.8	2628.5	2628.5	2632.2	2624.8	2613.8	2624.8	2617.5
17.5°	2624.8	2624.8	2621.1	2606.4	2613.8	2613.8	2617.5	2610.1	2599.1	2606.4	2606.4
20°	2580.7	2584.3	2584.3	2573.3	2580.7	2580.7	2584.3	2580.7	2577.0	2580.7	2573.3
22.5°	2529.1	2536.5	2536.5	2525.4	2532.8	2532.8	2543.8	2540.2	2532.8	2536.5	2532.8
25°	2451.8	2459.2	2466.5	2459.2	2466.5	2466.5	2477.6	2473.9	2466.5	2473.9	2462.8
27.5°	2363.5	2367.1	2374.5	2367.1	2378.2	2374.5	2385.5	2381.9	2370.8	2381.9	2378.2
30°	2238.3	2253.0	2264.1	2253.0	2264.1	2264.1	2271.4	2267.7	2264.1	2260.4	2260.4
32.5°	2098.4	2113.1	2113.1	2109.4	2116.8	2116.8	2120.5	2113.1	2109.4	2113.1	2116.8
35°	1925.4	1932.7	1940.1	1936.4	1940.1	1943.8	1940.1	1943.8	1932.7	1936.4	1936.4
37.5°	1737.6	1745.0	1745.0	1733.9	1741.3	1741.3	1733.9	1733.9	1726.6	1733.9	1719.2
40°	1538.8	1531.5	1535.1	1527.8	1520.4	1520.4	1516.7	1502.0	1494.6	1498.3	1502.0
42.5°	1343.7	1343.7	1332.7	1314.3	1295.8	1295.8	1284.8	1277.4	1262.7	1270.1	1266.4
45°	1178.0	1159.6	1144.9	1115.5	1104.4	1097.1	1078.6	1060.2	1052.9	1056.6	1052.9
47.5°	1019.7	1005.0	968.2	927.7	916.7	905.6	883.5	861.4	854.1	846.7	846.7
50°	887.2	861.4	820.9	776.8	758.4	740.0	710.5	688.4	673.7	677.4	677.4
52.5°	765.7	736.3	688.4	633.2	611.1	589.0	563.3	537.5	526.4	522.8	522.8
55°	659.0	625.8	578.0	515.4	497.0	471.2	438.1	408.6	393.9	390.2	397.6
57.5°	563.3	533.8	478.6	416.0	393.9	368.1	335.0	309.2	290.8	287.1	290.8
60°	485.9	445.4	397.6	338.7	309.2	287.1	250.3	228.2	209.8	202.5	206.2
62.5°	408.6	371.8	324.0	265.1	243.0	220.9	187.8	162.0	147.3	143.6	147.3
65°	349.7	312.9	268.7	217.2	195.1	173.0	143.6	117.8	106.8	103.1	106.8
67.5°	290.8	257.7	220.9	173.0	154.6	136.2	106.8	88.4	73.6	69.9	73.6
70°	235.6	206.2	169.3	136.2	117.8	103.1	81.0	62.6	51.5	47.9	51.5
72.5°	176.7	154.6	128.8	99.4	88.4	77.3	58.9	44.2	36.8	33.1	36.8
75°	128.8	110.4	92.0	69.9	62.6	55.2	40.5	29.5	25.8	22.1	25.8
77.5°	88.4	77.3	62.6	47.9	40.5	36.8	25.8	22.1	18.4	14.7	14.7
80°	58.9	51.5	40.5	33.1	29.5	25.8	18.4	14.7	11.0	11.0	11.0
82.5°	36.8	29.5	25.8	18.4	14.7	14.7	11.0	7.4	7.4	7.4	7.4
85°	22.1	18.4	14.7	11.0	7.4	7.4	3.7	3.7	3.7	3.7	3.7
87.5°	11.0	7.4	7.4	3.7	3.7	3.7	3.7	3.7	0.0	0.0	3.7
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°	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7
2.5°	2602.7	2595.4	2595.4	2599.1	2602.7	2606.4	2599.1	2595.4	2595.4	2606.4	2599.1
5°	2602.7	2599.1	2599.1	2599.1	2606.4	2610.1	2602.7	2599.1	2602.7	2613.8	2610.1
7.5°	2613.8	2606.4	2610.1	2610.1	2613.8	2621.1	2613.8	2610.1	2613.8	2624.8	2617.5
10°	2621.1	2613.8	2617.5	2613.8	2624.8	2628.5	2621.1	2617.5	2621.1	2635.9	2632.2
12.5°	2624.8	2621.1	2621.1	2617.5	2628.5	2632.2	2624.8	2621.1	2624.8	2635.9	2632.2
15°	2617.5	2613.8	2613.8	2613.8	2621.1	2628.5	2617.5	2613.8	2613.8	2624.8	2621.1
17.5°	2602.7	2595.4	2595.4	2595.4	2599.1	2602.7	2591.7	2588.0	2584.3	2595.4	2591.7
20°	2577.0	2569.6	2562.2	2562.2	2565.9	2565.9	2558.6	2547.5	2547.5	2551.2	2543.8
22.5°	2529.1	2525.4	2518.1	2514.4	2521.8	2518.1	2503.3	2492.3	2488.6	2492.3	2484.9
25°	2462.8	2455.5	2451.8	2448.1	2451.8	2448.1	2433.4	2418.7	2418.7	2418.7	2407.6
27.5°	2370.8	2363.5	2359.8	2359.8	2363.5	2356.1	2341.4	2326.6	2319.3	2319.3	2308.2
30°	2253.0	2253.0	2249.3	2245.6	2242.0	2242.0	2219.9	2205.2	2197.8	2201.5	2194.1
32.5°	2109.4	2105.8	2102.1	2091.0	2094.7	2091.0	2072.6	2061.6	2050.5	2043.2	2039.5
35°	1925.4	1925.4	1921.7	1921.7	1921.7	1918.0	1899.6	1888.6	1881.2	1877.5	1866.5
37.5°	1722.9	1719.2	1715.5	1715.5	1715.5	1715.5	1704.5	1693.4	1693.4	1689.8	1682.4
40°	1494.6	1498.3	1502.0	1498.3	1509.4	1520.4	1505.7	1498.3	1494.6	1505.7	1491.0
42.5°	1273.8	1270.1	1288.5	1292.2	1292.2	1310.6	1314.3	1317.9	1314.3	1321.6	1321.6
45°	1060.2	1056.6	1075.0	1082.3	1100.7	1122.8	1133.9	1152.3	1159.6	1167.0	1159.6
47.5°	857.8	872.5	887.2	905.6	920.3	957.2	979.2	997.7	1005.0	1016.1	1016.1
50°	688.4	703.1	728.9	743.6	762.0	806.2	843.0	868.8	883.5	894.6	890.9
52.5°	530.1	555.9	589.0	603.7	629.5	681.1	721.6	751.0	769.4	780.5	784.1
55°	408.6	430.7	463.9	485.9	511.7	566.9	618.5	651.6	670.0	684.7	692.1
57.5°	301.9	327.6	364.5	382.9	412.3	474.9	519.1	559.6	581.7	600.1	603.7
60°	220.9	246.7	279.8	301.9	331.3	393.9	445.4	482.3	508.0	522.8	530.1
62.5°	158.3	184.1	217.2	239.3	265.1	320.3	371.8	408.6	434.4	452.8	463.9
65°	114.1	139.9	173.0	191.4	213.5	265.1	312.9	349.7	375.5	397.6	405.0
67.5°	84.7	103.1	132.5	150.9	173.0	213.5	254.0	287.1	312.9	331.3	338.7
70°	62.6	77.3	103.1	114.1	128.8	165.7	198.8	228.2	250.3	265.1	272.4
72.5°	44.2	55.2	73.6	84.7	95.7	125.2	150.9	173.0	187.8	202.5	209.8
75°	29.5	36.8	51.5	58.9	66.3	88.4	106.8	125.2	136.2	147.3	150.9
77.5°	18.4	25.8	36.8	40.5	47.9	58.9	73.6	84.7	92.0	99.4	106.8
80°	11.0	14.7	22.1	25.8	29.5	40.5	47.9	55.2	62.6	69.9	73.6
82.5°	7.4	11.0	14.7	14.7	18.4	22.1	29.5	36.8	40.5	44.2	47.9
85°	3.7	3.7	7.4	7.4	11.0	11.0	14.7	18.4	22.1	25.8	29.5
87.5°	3.7	3.7	3.7	3.7	7.4	7.4	11.0	11.0	11.0	14.7	14.7
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: P252717

CATALOG NUMBER: LD6B50D010TE EU6B30508050 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7
2.5°	2591.7	2602.7	2591.7	2599.1	2595.4	2595.4	2591.7	2595.4
5°	2602.7	2617.5	2602.7	2613.8	2606.4	2606.4	2606.4	2610.1
7.5°	2613.8	2628.5	2617.5	2628.5	2624.8	2621.1	2621.1	2628.5
10°	2624.8	2635.9	2628.5	2639.6	2635.9	2632.2	2632.2	2639.6
12.5°	2624.8	2639.6	2632.2	2643.2	2639.6	2635.9	2635.9	2639.6
15°	2613.8	2632.2	2621.1	2632.2	2628.5	2624.8	2624.8	2632.2
17.5°	2580.7	2595.4	2588.0	2595.4	2595.4	2591.7	2595.4	2599.1
20°	2536.5	2547.5	2540.2	2547.5	2547.5	2540.2	2543.8	2547.5
22.5°	2473.9	2484.9	2477.6	2484.9	2481.3	2477.6	2477.6	2473.9
25°	2396.6	2411.3	2400.3	2407.6	2400.3	2392.9	2392.9	2396.6
27.5°	2300.9	2311.9	2297.2	2304.5	2297.2	2289.8	2289.8	2286.1
30°	2175.7	2179.4	2168.3	2175.7	2168.3	2164.7	2157.3	2157.3
32.5°	2024.8	2028.4	2017.4	2017.4	2010.0	2010.0	1995.3	2006.4
35°	1848.1	1851.7	1848.1	1844.4	1833.3	1829.6	1826.0	1826.0
37.5°	1664.0	1664.0	1652.9	1649.3	1641.9	1634.5	1638.2	1627.2
40°	1476.2	1472.6	1461.5	1465.2	1461.5	1450.5	1446.8	1443.1
42.5°	1299.5	1299.5	1288.5	1292.2	1284.8	1281.1	1270.1	1273.8
45°	1144.9	1144.9	1133.9	1133.9	1130.2	1119.1	1122.8	1115.5
47.5°	1005.0	1005.0	1001.3	1001.3	990.3	986.6	986.6	986.6
50°	883.5	883.5	883.5	883.5	879.9	876.2	872.5	876.2
52.5°	780.5	787.8	784.1	784.1	780.5	776.8	773.1	773.1
55°	688.4	692.1	692.1	695.8	692.1	688.4	692.1	688.4
57.5°	607.4	614.8	614.8	614.8	614.8	614.8	611.1	607.4
60°	537.5	541.2	541.2	544.8	544.8	544.8	541.2	541.2
62.5°	467.5	474.9	478.6	478.6	482.3	478.6	478.6	478.6
65°	412.3	419.7	423.4	419.7	423.4	423.4	419.7	419.7
67.5°	346.1	353.4	353.4	353.4	353.4	357.1	353.4	353.4
70°	279.8	287.1	283.5	287.1	287.1	287.1	287.1	287.1
72.5°	213.5	217.2	220.9	220.9	224.6	220.9	220.9	220.9
75°	154.6	162.0	162.0	162.0	162.0	165.7	165.7	165.7
77.5°	110.4	114.1	114.1	117.8	117.8	117.8	117.8	121.5
80°	77.3	77.3	81.0	81.0	84.7	84.7	84.7	84.7
82.5°	51.5	55.2	55.2	55.2	55.2	55.2	55.2	55.2
85°	29.5	33.1	33.1	33.1	33.1	36.8	36.8	36.8
87.5°	18.4	18.4	18.4	18.4	18.4	18.4	14.7	14.7
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)