

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: PORTFOLIO

Report Number: P252702

Luminaire Tested: **LE_6B40D010 EC6B30508035 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252702
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: PORTFOLIO
Catalog Number: LE_6B40D010 EC6B30508035 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE 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: 4996.2 lumens
Efficiency: N/A
Efficacy: 116.2 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

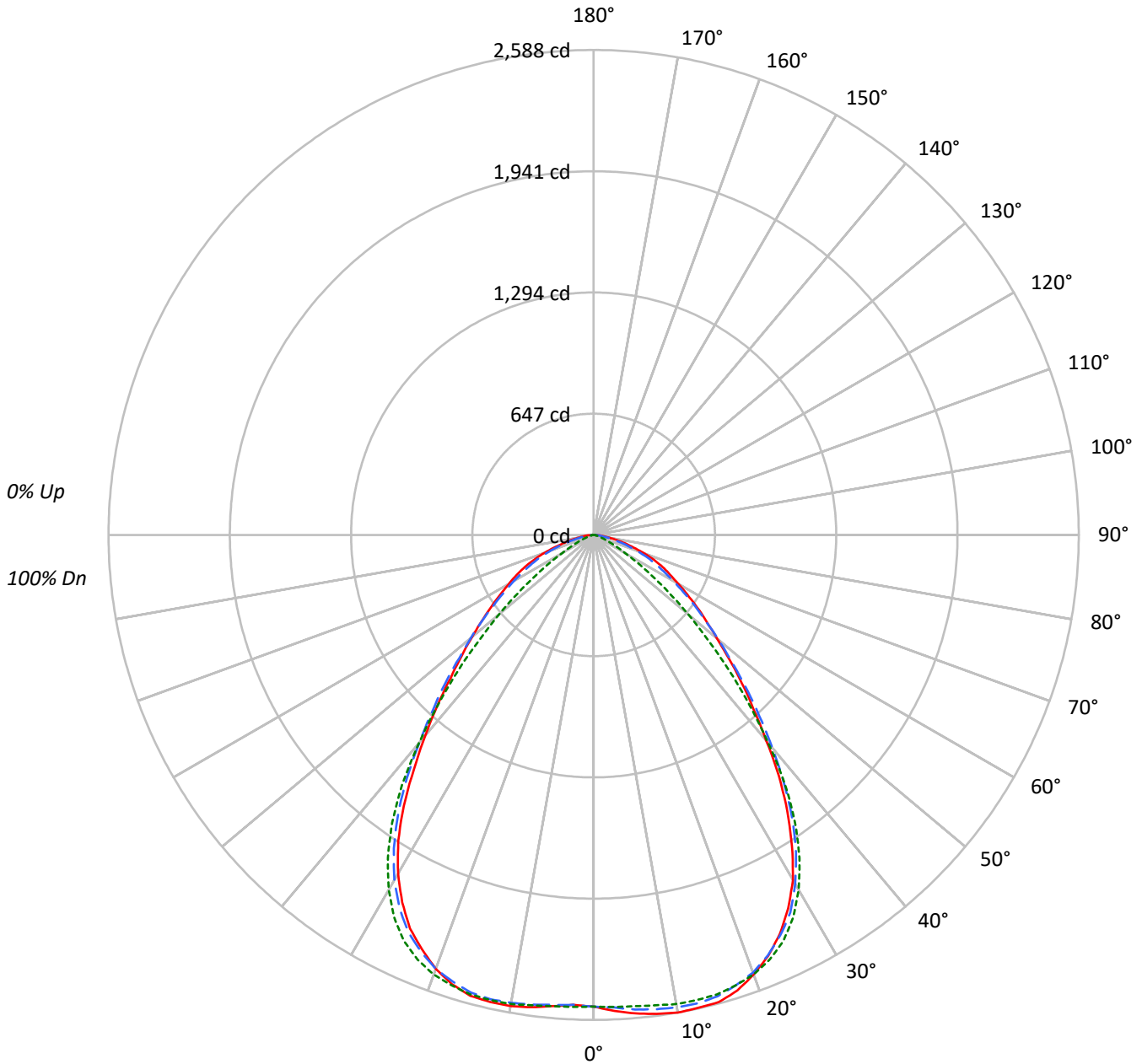
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252702

CATALOG NUMBER: LE_6B40D010 EC6B30508035 6LBDW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252702

CATALOG NUMBER: LE_6B40D010 EC6B30508035 6LBDW1H

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°	164224	164224	164224
5°	167883	165323	165323
10°	171474	168407	169122
15°	174340	171462	171949
20°	173284	173284	171056
25°	169158	172231	166854
30°	160129	164686	157176
35°	143487	149157	140651
40°	121889	123413	118857
45°	103151	94285	99535
50°	87084	66490	86008
55°	76538	42927	75730
60°	67837	25561	68294
65°	62660	15406	62660
70°	54345	8813	52991
75°	43079	5394	40382
80°	32123	3982	30770
85°	29268	2620	26648



TEST NUMBER: P252702

CATALOG NUMBER: LE_6B40D010 EC6B30508035 6LBDW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.3	4.9
10°-20°	717.3	14.4
20°-30°	1078.7	21.6
30°-40°	1134.2	22.7
40°-50°	847.3	17.0
50°-60°	527.5	10.6
60°-70°	300.0	6.0
70°-80°	123.5	2.5
80°-90°	25.5	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°	2038.3	40.8
0°-40°	3172.5	63.5
0°-60°	4547.2	91.0
0°-90°	4996.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4996.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2517	2517	2517	2517	2517	
5°	2564	2542	2524	2517	2524	245
15°	2581	2549	2539	2528	2546	726
25°	2350	2357	2393	2339	2318	1076
35°	1802	1848	1873	1819	1766	1118
45°	1118	1143	1022	1122	1079	866
55°	673	659	377	648	666	605
65°	406	363	100	363	406	400
75°	171	135	21	132	160	186
85°	39	25	4	21	36	44
90°	0	0	0	0	0	



TEST NUMBER: P252702

CATALOG NUMBER: LE_6B40D010 EC6B30508035 6LBDW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2
2.5°	2542.1	2538.6	2542.1	2535.0	2531.5	2531.5	2535.0	2527.9	2524.4	2527.9	2524.4
5°	2563.5	2556.4	2560.0	2556.4	2549.2	2549.2	2552.9	2542.1	2542.1	2545.8	2542.1
7.5°	2577.8	2577.8	2577.8	2570.6	2567.1	2563.5	2570.6	2560.0	2556.4	2556.4	2552.9
10°	2588.4	2584.9	2588.4	2581.2	2574.1	2570.6	2577.8	2570.6	2563.5	2570.6	2560.0
12.5°	2584.9	2584.9	2584.9	2581.2	2574.1	2570.6	2577.8	2567.1	2563.5	2567.1	2560.0
15°	2581.2	2570.6	2574.1	2570.6	2560.0	2560.0	2563.5	2552.9	2545.8	2556.4	2549.2
17.5°	2549.2	2542.1	2545.8	2538.6	2531.5	2527.9	2531.5	2527.9	2520.8	2527.9	2520.8
20°	2495.9	2495.9	2499.4	2492.2	2485.1	2481.6	2488.8	2481.6	2474.5	2485.1	2485.1
22.5°	2431.8	2431.8	2431.8	2428.2	2424.6	2424.6	2424.6	2421.1	2417.5	2424.6	2428.2
25°	2349.9	2346.4	2349.9	2353.5	2349.9	2346.4	2349.9	2349.9	2342.8	2357.0	2357.0
27.5°	2246.6	2246.6	2253.8	2250.1	2250.1	2246.6	2253.8	2253.8	2250.1	2260.9	2271.5
30°	2125.6	2118.5	2125.6	2125.6	2129.1	2129.1	2132.8	2132.8	2132.8	2143.4	2150.5
32.5°	1968.9	1972.5	1983.1	1979.6	1976.0	1986.8	1986.8	1993.9	1997.4	2004.5	2008.1
35°	1801.6	1805.1	1805.1	1808.8	1815.9	1808.8	1826.5	1822.9	1826.5	1840.8	1847.9
37.5°	1623.5	1612.9	1630.6	1623.5	1627.1	1627.1	1634.2	1637.8	1648.5	1666.2	1666.2
40°	1431.2	1434.9	1442.0	1445.5	1449.1	1449.1	1449.1	1459.8	1463.4	1484.8	1481.1
42.5°	1264.0	1264.0	1271.1	1274.6	1274.6	1274.6	1274.6	1285.2	1292.4	1299.5	1306.6
45°	1118.0	1107.2	1114.4	1114.4	1121.5	1118.0	1125.1	1132.2	1135.8	1146.5	1142.9
47.5°	979.1	975.5	979.1	982.6	979.1	982.6	986.2	989.8	993.4	993.4	993.4
50°	858.0	858.0	861.6	865.1	865.1	865.1	865.1	868.8	868.8	875.9	868.8
52.5°	758.4	761.9	761.9	758.4	761.9	761.9	765.5	765.5	761.9	761.9	751.2
55°	672.9	669.4	672.9	669.4	672.9	672.9	669.4	669.4	665.8	662.2	658.6
57.5°	591.0	591.0	591.0	591.0	587.5	591.0	587.5	583.9	583.9	576.8	566.1
60°	519.9	519.9	519.9	519.9	519.9	516.2	519.9	516.2	509.1	502.0	487.8
62.5°	459.2	455.8	459.2	455.8	455.8	452.1	452.1	448.6	441.5	434.4	420.1
65°	405.9	409.5	405.9	405.9	402.4	398.8	398.8	395.2	384.5	377.4	363.1
67.5°	348.9	345.4	345.4	345.4	341.8	341.8	341.8	334.6	327.5	316.9	302.6
70°	284.9	284.9	284.9	281.2	281.2	277.8	277.8	274.1	267.0	259.9	242.1
72.5°	224.2	224.2	224.2	217.1	220.8	217.1	217.1	210.1	206.5	195.9	185.1
75°	170.9	170.9	167.4	167.4	163.8	160.2	160.2	156.6	153.1	146.0	135.2
77.5°	124.6	124.6	124.6	121.0	117.5	113.9	113.9	110.4	106.9	103.2	96.1
80°	85.5	85.5	85.5	85.5	81.9	78.4	78.4	74.8	74.8	71.2	64.1
82.5°	57.0	57.0	57.0	57.0	53.4	53.4	53.4	49.9	46.2	46.2	39.1
85°	39.1	39.1	35.6	35.6	35.6	35.6	32.0	32.0	28.5	24.9	24.9
87.5°	21.4	21.4	21.4	21.4	17.8	17.8	17.8	17.8	14.2	14.2	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



TEST NUMBER: P252702

CATALOG NUMBER: LE_6B40D010 EC6B30508035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2
2.5°	2535.0	2535.0	2531.5	2520.8	2524.4	2520.8	2524.4	2520.8	2510.1	2520.8	2510.1
5°	2549.2	2552.9	2545.8	2531.5	2535.0	2531.5	2531.5	2527.9	2517.2	2524.4	2517.2
7.5°	2563.5	2560.0	2556.4	2542.1	2545.8	2542.1	2542.1	2535.0	2524.4	2531.5	2520.8
10°	2570.6	2570.6	2563.5	2549.2	2549.2	2545.8	2549.2	2545.8	2531.5	2542.1	2535.0
12.5°	2570.6	2567.1	2567.1	2549.2	2552.9	2549.2	2552.9	2545.8	2535.0	2542.1	2538.6
15°	2560.0	2560.0	2556.4	2538.6	2542.1	2542.1	2545.8	2538.6	2527.9	2538.6	2531.5
17.5°	2538.6	2538.6	2535.0	2520.8	2527.9	2527.9	2531.5	2524.4	2513.6	2520.8	2520.8
20°	2495.9	2499.4	2499.4	2488.8	2495.9	2495.9	2499.4	2495.9	2492.2	2495.9	2488.8
22.5°	2446.0	2453.1	2453.1	2442.5	2449.6	2449.6	2460.2	2456.8	2449.6	2453.1	2449.6
25°	2371.2	2378.4	2385.5	2378.4	2385.5	2385.5	2396.1	2392.6	2385.5	2392.6	2381.9
27.5°	2285.8	2289.4	2296.5	2289.4	2300.0	2296.5	2307.1	2303.6	2292.9	2303.6	2300.0
30°	2164.8	2179.0	2189.6	2179.0	2189.6	2189.6	2196.8	2193.2	2189.6	2186.1	2186.1
32.5°	2029.5	2043.6	2043.6	2040.1	2047.2	2047.2	2050.8	2043.6	2040.1	2043.6	2047.2
35°	1862.1	1869.2	1876.4	1872.8	1876.4	1879.9	1876.4	1879.9	1869.2	1872.8	1872.8
37.5°	1680.5	1687.6	1687.6	1677.0	1684.1	1684.1	1677.0	1677.0	1669.9	1677.0	1662.8
40°	1488.2	1481.1	1484.8	1477.6	1470.5	1470.5	1466.9	1452.6	1445.5	1449.1	1452.6
42.5°	1299.5	1299.5	1288.9	1271.1	1253.2	1253.2	1242.6	1235.5	1221.2	1228.4	1224.8
45°	1139.4	1121.5	1107.2	1078.8	1068.1	1061.0	1043.2	1025.4	1018.2	1021.9	1018.2
47.5°	986.2	972.0	936.4	897.2	886.5	875.9	854.5	833.1	826.0	818.9	818.9
50°	858.0	833.1	794.0	751.2	733.5	715.6	687.1	665.8	651.5	655.1	655.1
52.5°	740.6	712.1	665.8	612.4	591.0	569.6	544.8	519.9	509.1	505.6	505.6
55°	637.4	605.2	559.0	498.5	480.6	455.8	423.8	395.2	381.0	377.4	384.5
57.5°	544.8	516.2	462.9	402.4	381.0	356.0	324.0	299.1	281.2	277.8	281.2
60°	470.0	430.8	384.5	327.5	299.1	277.8	242.1	220.8	203.0	195.9	199.4
62.5°	395.2	359.6	313.4	256.4	235.0	213.6	181.6	156.6	142.4	138.9	142.4
65°	338.2	302.6	259.9	210.1	188.8	167.4	138.9	113.9	103.2	99.8	103.2
67.5°	281.2	249.2	213.6	167.4	149.5	131.8	103.2	85.5	71.2	67.6	71.2
70°	227.9	199.4	163.8	131.8	113.9	99.8	78.4	60.5	49.9	46.2	49.9
72.5°	170.9	149.5	124.6	96.1	85.5	74.8	57.0	42.8	35.6	32.0	35.6
75°	124.6	106.9	89.0	67.6	60.5	53.4	39.1	28.5	24.9	21.4	24.9
77.5°	85.5	74.8	60.5	46.2	39.1	35.6	24.9	21.4	17.8	14.2	14.2
80°	57.0	49.9	39.1	32.0	28.5	24.9	17.8	14.2	10.6	10.6	10.6
82.5°	35.6	28.5	24.9	17.8	14.2	14.2	10.6	7.1	7.1	7.1	7.1
85°	21.4	17.8	14.2	10.6	7.1	7.1	3.5	3.5	3.5	3.5	3.5
87.5°	10.6	7.1	7.1	3.5	3.5	3.5	3.5	3.5	0.0	0.0	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: P252702

CATALOG NUMBER: LE_6B40D010 EC6B30508035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2
2.5°	2517.2	2510.1	2510.1	2513.6	2517.2	2520.8	2513.6	2510.1	2510.1	2520.8	2513.6
5°	2517.2	2513.6	2513.6	2513.6	2520.8	2524.4	2517.2	2513.6	2517.2	2527.9	2524.4
7.5°	2527.9	2520.8	2524.4	2524.4	2527.9	2535.0	2527.9	2524.4	2527.9	2538.6	2531.5
10°	2535.0	2527.9	2531.5	2527.9	2538.6	2542.1	2535.0	2531.5	2535.0	2549.2	2545.8
12.5°	2538.6	2535.0	2535.0	2531.5	2542.1	2545.8	2538.6	2535.0	2538.6	2549.2	2545.8
15°	2531.5	2527.9	2527.9	2527.9	2535.0	2542.1	2531.5	2527.9	2527.9	2538.6	2535.0
17.5°	2517.2	2510.1	2510.1	2510.1	2513.6	2517.2	2506.5	2503.0	2499.4	2510.1	2506.5
20°	2492.2	2485.1	2478.0	2478.0	2481.6	2481.6	2474.5	2463.8	2463.8	2467.4	2460.2
22.5°	2446.0	2442.5	2435.4	2431.8	2438.9	2435.4	2421.1	2410.4	2406.9	2410.4	2403.2
25°	2381.9	2374.8	2371.2	2367.6	2371.2	2367.6	2353.5	2339.2	2339.2	2339.2	2328.5
27.5°	2292.9	2285.8	2282.2	2282.2	2285.8	2278.6	2264.4	2250.1	2243.1	2243.1	2232.4
30°	2179.0	2179.0	2175.4	2171.9	2168.2	2168.2	2146.9	2132.8	2125.6	2129.1	2122.0
32.5°	2040.1	2036.5	2033.0	2022.4	2025.9	2022.4	2004.5	1993.9	1983.1	1976.0	1972.5
35°	1862.1	1862.1	1858.5	1858.5	1858.5	1855.0	1837.1	1826.5	1819.4	1815.9	1805.1
37.5°	1666.2	1662.8	1659.1	1659.1	1659.1	1659.1	1648.5	1637.8	1637.8	1634.2	1627.1
40°	1445.5	1449.1	1452.6	1449.1	1459.8	1470.5	1456.2	1449.1	1445.5	1456.2	1442.0
42.5°	1231.9	1228.4	1246.1	1249.8	1249.8	1267.5	1271.1	1274.6	1271.1	1278.2	1278.2
45°	1025.4	1021.9	1039.6	1046.8	1064.6	1085.9	1096.6	1114.4	1121.5	1128.6	1121.5
47.5°	829.6	843.9	858.0	875.9	890.1	925.8	947.1	964.9	972.0	982.6	982.6
50°	665.8	680.0	705.0	719.2	737.0	779.8	815.4	840.2	854.5	865.1	861.6
52.5°	512.8	537.6	569.6	583.9	608.9	658.6	697.9	726.4	744.1	754.8	758.4
55°	395.2	416.6	448.6	470.0	494.9	548.2	598.1	630.2	648.0	662.2	669.4
57.5°	292.0	316.9	352.5	370.2	398.8	459.2	502.0	541.1	562.5	580.4	583.9
60°	213.6	238.5	270.6	292.0	320.5	381.0	430.8	466.4	491.4	505.6	512.8
62.5°	153.1	178.0	210.1	231.4	256.4	309.8	359.6	395.2	420.1	437.9	448.6
65°	110.4	135.2	167.4	185.1	206.5	256.4	302.6	338.2	363.1	384.5	391.6
67.5°	81.9	99.8	128.1	146.0	167.4	206.5	245.6	277.8	302.6	320.5	327.5
70°	60.5	74.8	99.8	110.4	124.6	160.2	192.2	220.8	242.1	256.4	263.5
72.5°	42.8	53.4	71.2	81.9	92.6	121.0	146.0	167.4	181.6	195.9	203.0
75°	28.5	35.6	49.9	57.0	64.1	85.5	103.2	121.0	131.8	142.4	146.0
77.5°	17.8	24.9	35.6	39.1	46.2	57.0	71.2	81.9	89.0	96.1	103.2
80°	10.6	14.2	21.4	24.9	28.5	39.1	46.2	53.4	60.5	67.6	71.2
82.5°	7.1	10.6	14.2	14.2	17.8	21.4	28.5	35.6	39.1	42.8	46.2
85°	3.5	3.5	7.1	7.1	10.6	10.6	14.2	17.8	21.4	24.9	28.5
87.5°	3.5	3.5	3.5	3.5	7.1	7.1	10.6	10.6	10.6	14.2	14.2
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: P252702

CATALOG NUMBER: LE_6B40D010 EC6B30508035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2
2.5°	2506.5	2517.2	2506.5	2513.6	2510.1	2510.1	2506.5	2510.1
5°	2517.2	2531.5	2517.2	2527.9	2520.8	2520.8	2520.8	2524.4
7.5°	2527.9	2542.1	2531.5	2542.1	2538.6	2535.0	2535.0	2542.1
10°	2538.6	2549.2	2542.1	2552.9	2549.2	2545.8	2545.8	2552.9
12.5°	2538.6	2552.9	2545.8	2556.4	2552.9	2549.2	2549.2	2552.9
15°	2527.9	2545.8	2535.0	2545.8	2542.1	2538.6	2538.6	2545.8
17.5°	2495.9	2510.1	2503.0	2510.1	2510.1	2506.5	2510.1	2513.6
20°	2453.1	2463.8	2456.8	2463.8	2463.8	2456.8	2460.2	2463.8
22.5°	2392.6	2403.2	2396.1	2403.2	2399.8	2396.1	2396.1	2392.6
25°	2317.9	2332.1	2321.4	2328.5	2321.4	2314.2	2314.2	2317.9
27.5°	2225.2	2236.0	2221.8	2228.9	2221.8	2214.6	2214.6	2211.0
30°	2104.2	2107.8	2097.1	2104.2	2097.1	2093.5	2086.4	2086.4
32.5°	1958.2	1961.8	1951.1	1951.1	1944.0	1944.0	1929.8	1940.4
35°	1787.4	1790.9	1787.4	1783.8	1773.1	1769.5	1766.0	1766.0
37.5°	1609.2	1609.2	1598.6	1595.1	1588.0	1580.9	1584.4	1573.8
40°	1427.8	1424.1	1413.5	1417.0	1413.5	1402.8	1399.2	1395.6
42.5°	1256.9	1256.9	1246.1	1249.8	1242.6	1239.0	1228.4	1231.9
45°	1107.2	1107.2	1096.6	1096.6	1093.0	1082.4	1085.9	1078.8
47.5°	972.0	972.0	968.4	968.4	957.8	954.2	954.2	954.2
50°	854.5	854.5	854.5	854.5	851.0	847.4	843.9	847.4
52.5°	754.8	761.9	758.4	758.4	754.8	751.2	747.8	747.8
55°	665.8	669.4	669.4	672.9	669.4	665.8	669.4	665.8
57.5°	587.5	594.6	594.6	594.6	594.6	594.6	591.0	587.5
60°	519.9	523.4	523.4	527.0	527.0	527.0	523.4	523.4
62.5°	452.1	459.2	462.9	462.9	466.4	462.9	462.9	462.9
65°	398.8	405.9	409.5	405.9	409.5	409.5	405.9	405.9
67.5°	334.6	341.8	341.8	341.8	341.8	345.4	341.8	341.8
70°	270.6	277.8	274.1	277.8	277.8	277.8	277.8	277.8
72.5°	206.5	210.1	213.6	213.6	217.1	213.6	213.6	213.6
75°	149.5	156.6	156.6	156.6	156.6	160.2	160.2	160.2
77.5°	106.9	110.4	110.4	113.9	113.9	113.9	113.9	117.5
80°	74.8	74.8	78.4	78.4	81.9	81.9	81.9	81.9
82.5°	49.9	53.4	53.4	53.4	53.4	53.4	53.4	53.4
85°	28.5	32.0	32.0	32.0	32.0	35.6	35.6	35.6
87.5°	17.8	17.8	17.8	17.8	17.8	17.8	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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













(END OF REPORT)