

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: P252493

Luminaire Tested: **LE_6B40D010 EC6B30508030 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252493
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: PORTFOLIO
Catalog Number: LE_6B40D010 EC6B30508030 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4433.8 lumens
Efficiency: N/A
Efficacy: 103.1 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

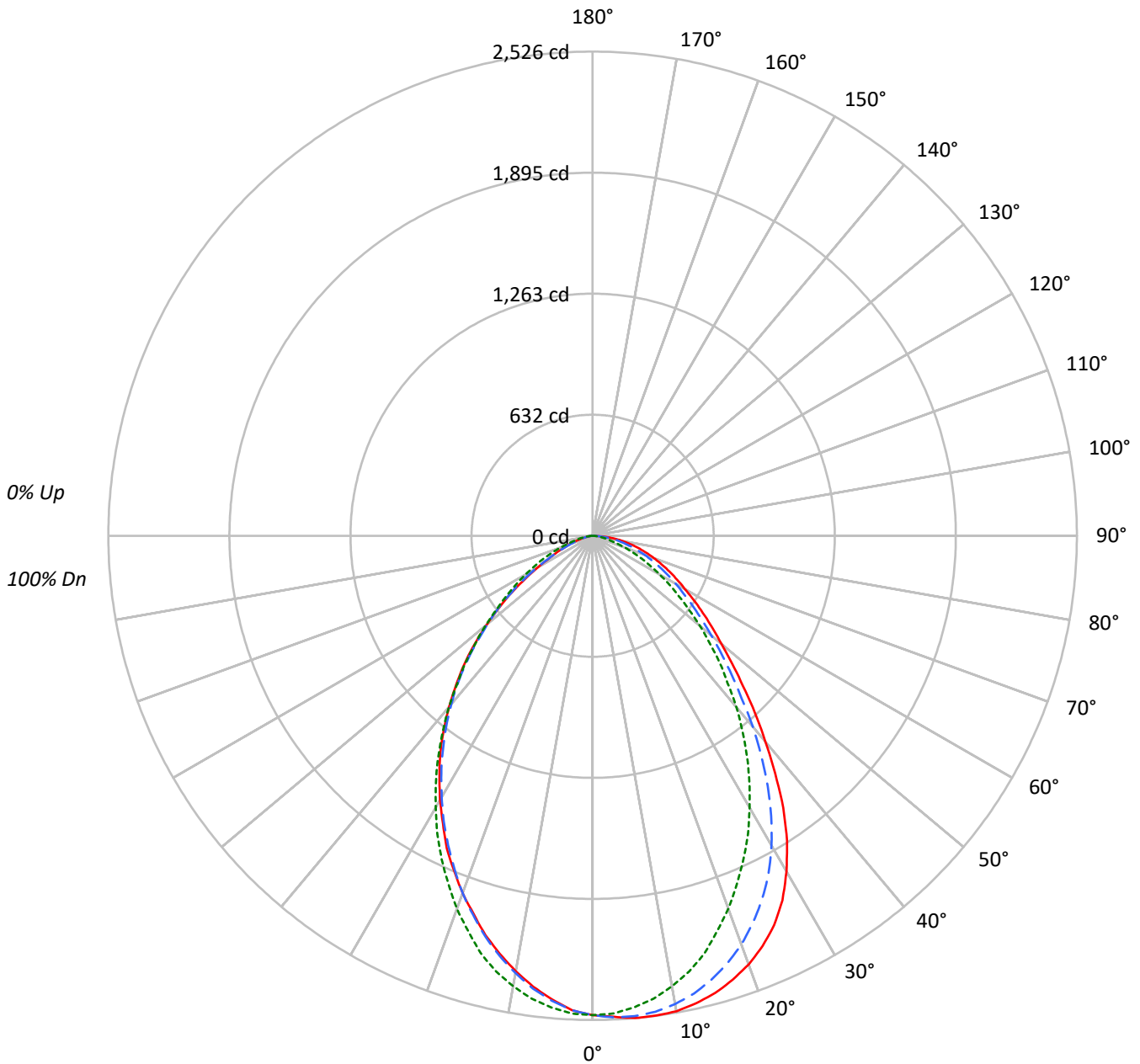
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252493

CATALOG NUMBER: LE_6B40D010 EC6B30508030 6LBLWW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252493

CATALOG NUMBER: LE_6B40D010 EC6B30508030 6LBLWW1H

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°	163180	163180	163180
5°	165401	161760	159036
10°	166850	158105	152819
15°	166829	152280	145715
20°	165224	143750	137717
25°	161304	134043	129537
30°	152317	123260	119863
35°	138063	111780	110395
40°	119232	99405	99116
45°	102247	86544	87180
50°	88860	74042	72986
55°	79825	62434	58476
60°	72535	52584	43059
65°	68109	43440	31646
70°	64951	33782	23195
75°	62161	24501	15754
80°	58760	16944	10445
85°	52024	10405	5240



TEST NUMBER: P252493

CATALOG NUMBER: LE_6B40D010 EC6B30508030 6LBLWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.0	5.3
10°-20°	640.8	14.5
20°-30°	889.6	20.1
30°-40°	921.5	20.8
40°-50°	757.2	17.1
50°-60°	520.4	11.7
60°-70°	299.2	6.7
70°-80°	137.5	3.1
80°-90°	33.5	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°	1764.4	39.8
0°-40°	2685.9	60.6
0°-60°	3963.6	89.4
0°-90°	4433.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4433.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2501	2501	2501	2501	2501	
5°	2526	2515	2470	2435	2428	241
15°	2470	2397	2255	2164	2157	696
25°	2241	2091	1862	1782	1800	1025
35°	1734	1591	1404	1362	1386	1075
45°	1108	1025	938	928	945	863
55°	702	636	549	518	514	632
65°	441	386	281	198	205	439
75°	247	194	97	62	62	261
85°	70	49	14	7	7	78
90°	0	0	0	0	0	



TEST NUMBER: P252493

CATALOG NUMBER: LE_6B40D010 EC6B30508030 6LBLWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2501.2	2501.2	2501.2	2501.2	2501.2	2501.2	2501.2	2501.2	2501.2	2501.2	2501.2
2.5°	2511.8	2532.5	2518.6	2515.2	2522.1	2522.1	2522.1	2511.8	2518.6	2508.2	2515.2
5°	2525.6	2543.0	2529.1	2522.1	2529.1	2532.5	2522.1	2515.2	2525.6	2511.8	2515.2
7.5°	2525.6	2543.0	2529.1	2525.6	2529.1	2529.1	2525.6	2511.8	2518.6	2504.8	2504.8
10°	2518.6	2532.5	2518.6	2511.8	2515.2	2511.8	2511.8	2494.4	2497.9	2480.5	2480.5
12.5°	2497.9	2515.2	2497.9	2490.9	2490.9	2490.9	2480.5	2466.5	2470.0	2449.1	2445.8
15°	2470.0	2483.9	2466.5	2459.6	2459.6	2456.1	2449.1	2428.4	2428.4	2407.5	2397.1
17.5°	2428.4	2442.2	2428.4	2417.9	2414.5	2407.5	2400.5	2379.8	2372.8	2348.4	2338.0
20°	2379.8	2390.1	2376.2	2365.8	2358.9	2351.9	2338.0	2317.1	2310.2	2285.9	2268.5
22.5°	2317.1	2331.1	2310.2	2299.8	2292.9	2282.4	2268.5	2247.8	2237.2	2206.0	2185.1
25°	2240.8	2247.8	2230.4	2219.9	2206.0	2199.0	2188.6	2160.9	2150.4	2115.6	2091.4
27.5°	2143.5	2150.4	2129.6	2122.6	2105.2	2098.2	2084.4	2060.1	2046.2	2011.5	1987.1
30°	2021.9	2028.9	2014.9	2004.5	1990.6	1976.8	1966.2	1942.0	1921.1	1886.4	1865.5
32.5°	1886.4	1896.9	1882.9	1869.0	1844.8	1848.1	1830.8	1806.5	1789.1	1757.9	1733.5
35°	1733.5	1740.5	1723.1	1719.6	1705.8	1691.9	1674.5	1657.1	1646.6	1612.0	1591.1
37.5°	1563.2	1580.6	1563.2	1549.4	1542.5	1532.0	1521.6	1497.2	1490.4	1469.5	1441.8
40°	1400.0	1410.5	1400.0	1386.1	1375.8	1375.8	1361.9	1347.9	1330.5	1309.8	1299.2
42.5°	1254.1	1247.1	1243.8	1236.8	1222.9	1219.4	1215.9	1198.5	1188.1	1167.2	1149.9
45°	1108.2	1111.6	1104.8	1101.2	1090.9	1083.9	1077.0	1063.0	1059.6	1038.8	1024.9
47.5°	986.6	983.1	976.2	976.2	969.2	962.2	955.4	944.9	941.5	924.1	910.2
50°	875.5	878.9	875.5	872.0	861.5	858.1	851.1	844.1	837.2	819.9	806.0
52.5°	785.1	781.6	778.1	778.1	767.8	764.2	757.4	750.4	743.5	726.1	715.6
55°	701.8	701.8	698.2	694.8	684.4	680.9	677.4	670.5	660.1	646.1	635.8
57.5°	625.4	625.4	621.9	618.4	611.4	611.4	604.5	597.5	590.6	576.6	562.8
60°	555.9	559.4	555.9	552.4	545.4	545.4	542.0	531.5	528.0	510.6	500.2
62.5°	496.8	496.8	496.8	493.2	489.9	482.9	482.9	472.5	465.5	455.1	441.2
65°	441.2	441.2	441.2	437.8	430.8	427.2	423.9	416.9	409.9	399.5	385.6
67.5°	389.1	389.1	389.1	385.6	378.6	375.2	371.8	368.2	357.9	347.4	333.5
70°	340.5	340.5	337.0	333.5	330.0	326.5	323.1	316.1	309.1	295.2	284.9
72.5°	291.9	291.9	291.9	284.9	281.4	281.4	274.5	271.0	264.0	250.1	239.8
75°	246.6	243.1	243.1	239.8	236.2	232.8	229.2	225.8	215.4	208.5	194.5
77.5°	201.5	201.5	198.0	194.5	194.5	191.1	187.6	180.6	177.1	166.8	156.4
80°	156.4	156.4	156.4	156.4	152.9	149.4	149.4	142.4	139.0	128.5	121.6
82.5°	118.1	114.6	114.6	114.6	111.1	107.8	107.8	104.2	100.8	93.8	86.9
85°	69.5	66.0	66.0	66.0	62.5	62.5	59.0	59.0	55.6	48.6	48.6
87.5°	20.9	20.9	24.4	24.4	20.9	20.9	20.9	20.9	20.9	17.4	17.4
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: P252493

CATALOG NUMBER: LE_6B40D010 EC6B30508030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2501.2	2501.2	2501.2	2501.2	2501.2	2501.2	2501.2	2501.2	2501.2	2501.2	2501.2
2.5°	2508.2	2518.6	2504.8	2501.2	2515.2	2508.2	2504.8	2497.9	2501.2	2494.4	2483.9
5°	2504.8	2518.6	2501.2	2490.9	2508.2	2497.9	2490.9	2483.9	2483.9	2470.0	2463.1
7.5°	2494.4	2501.2	2483.9	2473.5	2483.9	2473.5	2466.5	2456.1	2452.6	2435.2	2424.9
10°	2466.5	2473.5	2452.6	2438.8	2449.1	2435.2	2424.9	2414.5	2407.5	2386.6	2372.8
12.5°	2428.4	2431.8	2407.5	2390.1	2397.1	2386.6	2369.2	2355.4	2348.4	2327.6	2310.2
15°	2376.2	2379.8	2351.9	2327.6	2334.5	2320.6	2299.8	2285.9	2275.5	2254.6	2230.4
17.5°	2313.8	2310.2	2279.0	2254.6	2258.1	2240.8	2219.9	2199.0	2185.1	2160.9	2143.5
20°	2244.2	2233.8	2199.0	2171.2	2174.8	2153.9	2129.6	2108.8	2091.4	2070.5	2046.2
22.5°	2157.4	2143.5	2112.2	2077.5	2080.9	2063.6	2028.9	2011.5	1994.1	1966.2	1945.5
25°	2063.6	2042.8	2011.5	1976.8	1976.8	1955.9	1928.1	1907.2	1889.9	1862.1	1837.8
27.5°	1952.4	1942.0	1900.2	1872.5	1869.0	1848.1	1823.9	1799.5	1778.8	1754.4	1730.0
30°	1830.8	1813.4	1782.1	1750.9	1744.0	1726.6	1702.2	1674.5	1660.6	1636.2	1615.4
32.5°	1702.2	1684.9	1650.1	1618.9	1615.4	1601.5	1580.6	1552.9	1539.0	1521.6	1507.8
35°	1556.4	1549.4	1514.6	1490.4	1490.4	1476.5	1455.6	1431.2	1420.9	1403.5	1386.1
37.5°	1417.4	1407.0	1375.8	1354.9	1354.9	1337.5	1316.6	1306.2	1295.8	1281.9	1271.5
40°	1271.5	1264.5	1240.2	1219.4	1222.9	1209.0	1195.0	1181.1	1174.2	1167.2	1156.9
42.5°	1136.0	1129.0	1111.6	1094.4	1094.4	1083.9	1070.0	1059.6	1052.6	1042.2	1038.8
45°	1014.4	1004.0	990.1	972.8	972.8	962.2	955.4	948.4	944.9	938.0	927.5
47.5°	896.2	889.4	875.5	858.1	858.1	858.1	844.1	833.8	833.8	826.9	823.4
50°	795.5	785.1	774.8	760.8	760.8	753.9	743.5	733.0	733.0	729.5	722.6
52.5°	701.8	694.8	680.9	667.0	667.0	660.1	649.6	646.1	642.8	632.2	628.8
55°	621.9	614.9	604.5	587.1	583.6	580.1	569.8	562.8	559.4	548.9	548.9
57.5°	548.9	542.0	524.6	514.1	510.6	503.8	493.2	486.4	482.9	476.0	469.0
60°	486.4	476.0	462.0	448.1	444.6	437.8	427.2	420.4	416.9	403.0	396.0
62.5°	427.2	416.9	403.0	389.1	385.6	378.6	364.8	357.9	350.9	337.0	330.0
65°	371.8	361.2	347.4	333.5	326.5	323.1	309.1	298.8	291.9	281.4	267.5
67.5°	319.6	309.1	295.2	277.9	277.9	267.5	257.1	246.6	236.2	225.8	215.4
70°	271.0	260.5	246.6	232.8	229.2	222.4	211.9	198.0	191.1	177.1	166.8
72.5°	225.8	215.4	201.5	187.6	184.1	177.1	166.8	152.9	142.4	132.0	121.6
75°	184.1	173.8	159.8	149.4	145.9	139.0	128.5	114.6	104.2	97.2	86.9
77.5°	145.9	135.5	125.1	114.6	111.1	104.2	93.8	86.9	76.4	69.5	59.0
80°	111.1	104.2	93.8	86.9	83.4	76.4	69.5	59.0	52.1	45.1	41.8
82.5°	79.9	73.0	66.0	55.6	55.6	48.6	45.1	38.2	31.2	27.8	24.4
85°	45.1	38.2	34.8	31.2	27.8	27.8	24.4	20.9	17.4	13.9	13.9
87.5°	13.9	13.9	10.4	10.4	10.4	10.4	7.0	7.0	7.0	7.0	7.0
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: P252493

CATALOG NUMBER: LE_6B40D010 EC6B30508030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2501.2	2501.2	2501.2	2501.2	2501.2	2501.2	2501.2	2501.2	2501.2	2501.2	2501.2
2.5°	2483.9	2487.4	2480.5	2487.4	2480.5	2483.9	2477.0	2483.9	2477.0	2483.9	2470.0
5°	2459.6	2459.6	2449.1	2456.1	2449.1	2452.6	2438.8	2442.2	2435.2	2442.2	2428.4
7.5°	2417.9	2421.4	2404.0	2411.0	2400.5	2400.5	2390.1	2393.6	2383.1	2386.6	2376.2
10°	2369.2	2365.8	2348.4	2355.4	2341.5	2341.5	2331.1	2331.1	2317.1	2320.6	2306.8
12.5°	2299.8	2296.4	2275.5	2282.4	2268.5	2268.5	2258.1	2258.1	2244.2	2251.1	2237.2
15°	2219.9	2216.4	2195.6	2199.0	2185.1	2185.1	2171.2	2174.8	2164.2	2171.2	2157.4
17.5°	2129.6	2126.1	2105.2	2108.8	2091.4	2094.9	2084.4	2080.9	2074.0	2077.5	2067.0
20°	2035.8	2028.9	2008.0	2011.5	2004.5	1994.1	1987.1	1990.6	1983.6	1990.6	1980.2
22.5°	1938.5	1924.6	1907.2	1907.2	1900.2	1900.2	1889.9	1896.9	1882.9	1893.4	1886.4
25°	1827.4	1816.9	1803.0	1810.0	1796.1	1796.1	1785.6	1789.1	1782.1	1789.1	1782.1
27.5°	1719.6	1712.8	1691.9	1698.8	1688.4	1691.9	1681.4	1684.9	1681.4	1688.4	1681.4
30°	1605.0	1601.5	1587.6	1587.6	1584.1	1580.6	1577.2	1577.2	1573.8	1584.1	1577.2
32.5°	1497.2	1486.9	1473.0	1483.4	1466.0	1476.5	1469.5	1476.5	1469.5	1476.5	1473.0
35°	1386.1	1382.6	1365.2	1368.8	1365.2	1365.2	1361.9	1361.9	1361.9	1372.2	1372.2
37.5°	1268.0	1264.5	1254.1	1257.6	1250.6	1247.1	1247.1	1254.1	1254.1	1261.1	1261.1
40°	1153.4	1156.9	1146.4	1146.4	1143.0	1143.0	1143.0	1149.9	1146.4	1153.4	1149.9
42.5°	1038.8	1038.8	1028.2	1031.8	1028.2	1031.8	1031.8	1038.8	1038.8	1042.2	1038.8
45°	931.0	931.0	927.5	931.0	924.1	927.5	924.1	931.0	927.5	931.0	931.0
47.5°	823.4	823.4	823.4	819.9	819.9	819.9	819.9	819.9	816.4	823.4	819.9
50°	722.6	726.1	722.6	722.6	719.1	722.6	719.1	719.1	712.1	715.6	715.6
52.5°	632.2	632.2	625.4	625.4	625.4	621.9	621.9	621.9	618.4	618.4	611.4
55°	545.4	545.4	538.5	538.5	535.0	531.5	528.0	528.0	517.6	517.6	507.2
57.5°	465.5	462.0	451.6	451.6	444.6	441.2	437.8	434.2	427.2	420.4	416.9
60°	392.6	385.6	378.6	375.2	368.2	361.2	354.4	347.4	340.5	337.0	333.5
62.5°	323.1	312.6	305.8	302.2	295.2	284.9	277.9	271.0	264.0	260.5	253.6
65°	260.5	250.1	239.8	236.2	229.2	222.4	211.9	205.0	198.0	194.5	194.5
67.5°	205.0	194.5	180.6	180.6	173.8	166.8	159.8	152.9	149.4	152.9	152.9
70°	152.9	145.9	135.5	132.0	125.1	118.1	114.6	114.6	114.6	118.1	114.6
72.5°	114.6	104.2	97.2	93.8	90.4	86.9	86.9	86.9	83.4	86.9	86.9
75°	79.9	73.0	66.0	66.0	62.5	62.5	62.5	62.5	62.5	62.5	62.5
77.5°	55.6	48.6	45.1	45.1	45.1	41.8	41.8	41.8	41.8	41.8	41.8
80°	34.8	34.8	31.2	31.2	27.8	27.8	27.8	27.8	27.8	27.8	27.8
82.5°	20.9	20.9	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
85°	10.4	10.4	10.4	10.4	10.4	7.0	7.0	7.0	7.0	7.0	7.0
87.5°	3.5	3.5	3.5	3.5	3.5	7.0	7.0	7.0	7.0	7.0	7.0
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: P252493

CATALOG NUMBER: LE_6B40D010 EC6B30508030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2501.2	2501.2	2501.2	2501.2	2501.2	2501.2	2501.2	2501.2
2.5°	2470.0	2480.5	2466.5	2477.0	2473.5	2470.0	2463.1	2477.0
5°	2428.4	2431.8	2417.9	2431.8	2428.4	2421.4	2414.5	2428.4
7.5°	2369.2	2379.8	2362.4	2376.2	2372.8	2365.8	2358.9	2372.8
10°	2303.2	2313.8	2299.8	2310.2	2310.2	2303.2	2292.9	2306.8
12.5°	2230.4	2237.2	2223.4	2237.2	2233.8	2226.9	2223.4	2233.8
15°	2150.4	2160.9	2147.0	2157.4	2153.9	2150.4	2147.0	2157.4
17.5°	2063.6	2074.0	2063.6	2074.0	2074.0	2063.6	2060.1	2067.0
20°	1976.8	1983.6	1973.2	1983.6	1980.2	1980.2	1973.2	1983.6
22.5°	1879.5	1889.9	1882.9	1889.9	1886.4	1886.4	1882.9	1889.9
25°	1782.1	1792.6	1782.1	1792.6	1789.1	1789.1	1782.1	1799.5
27.5°	1684.9	1691.9	1681.4	1695.4	1691.9	1684.9	1688.4	1691.9
30°	1580.6	1587.6	1580.6	1591.1	1591.1	1591.1	1584.1	1591.1
32.5°	1476.5	1486.9	1476.5	1486.9	1483.4	1483.4	1479.9	1486.9
35°	1372.2	1375.8	1368.8	1379.1	1379.1	1382.6	1375.8	1386.1
37.5°	1264.5	1268.0	1264.5	1268.0	1275.0	1264.5	1271.5	1275.0
40°	1153.4	1160.4	1156.9	1160.4	1160.4	1163.8	1160.4	1163.8
42.5°	1042.2	1049.1	1042.2	1052.6	1049.1	1049.1	1052.6	1052.6
45°	927.5	938.0	931.0	938.0	941.5	938.0	938.0	944.9
47.5°	819.9	826.9	823.4	826.9	826.9	826.9	826.9	833.8
50°	712.1	715.6	715.6	719.1	719.1	722.6	715.6	719.1
52.5°	604.5	611.4	611.4	611.4	608.0	611.4	611.4	611.4
55°	507.2	510.6	503.8	510.6	510.6	507.2	507.2	514.1
57.5°	413.4	413.4	413.4	413.4	413.4	409.9	413.4	413.4
60°	326.5	330.0	326.5	326.5	326.5	326.5	323.1	330.0
62.5°	253.6	253.6	250.1	253.6	253.6	253.6	257.1	257.1
65°	198.0	201.5	198.0	201.5	201.5	201.5	201.5	205.0
67.5°	156.4	156.4	156.4	156.4	156.4	156.4	156.4	156.4
70°	118.1	118.1	118.1	121.6	118.1	118.1	118.1	121.6
72.5°	86.9	86.9	86.9	86.9	86.9	86.9	90.4	90.4
75°	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
77.5°	41.8	41.8	41.8	45.1	41.8	45.1	41.8	41.8
80°	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
82.5°	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
85°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
87.5°	7.0	7.0	7.0	7.0	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



Report Generated By E9808895 / USPTCWHP6082093





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













(END OF REPORT)