

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: P252175

Luminaire Tested: **LE\_6B30D010 EC6B30509035 6LBSW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252175  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B30D010 EC6B30509035 6LBSW1LI  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4072.5 lumens  
Efficiency: N/A  
Efficacy: 145.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

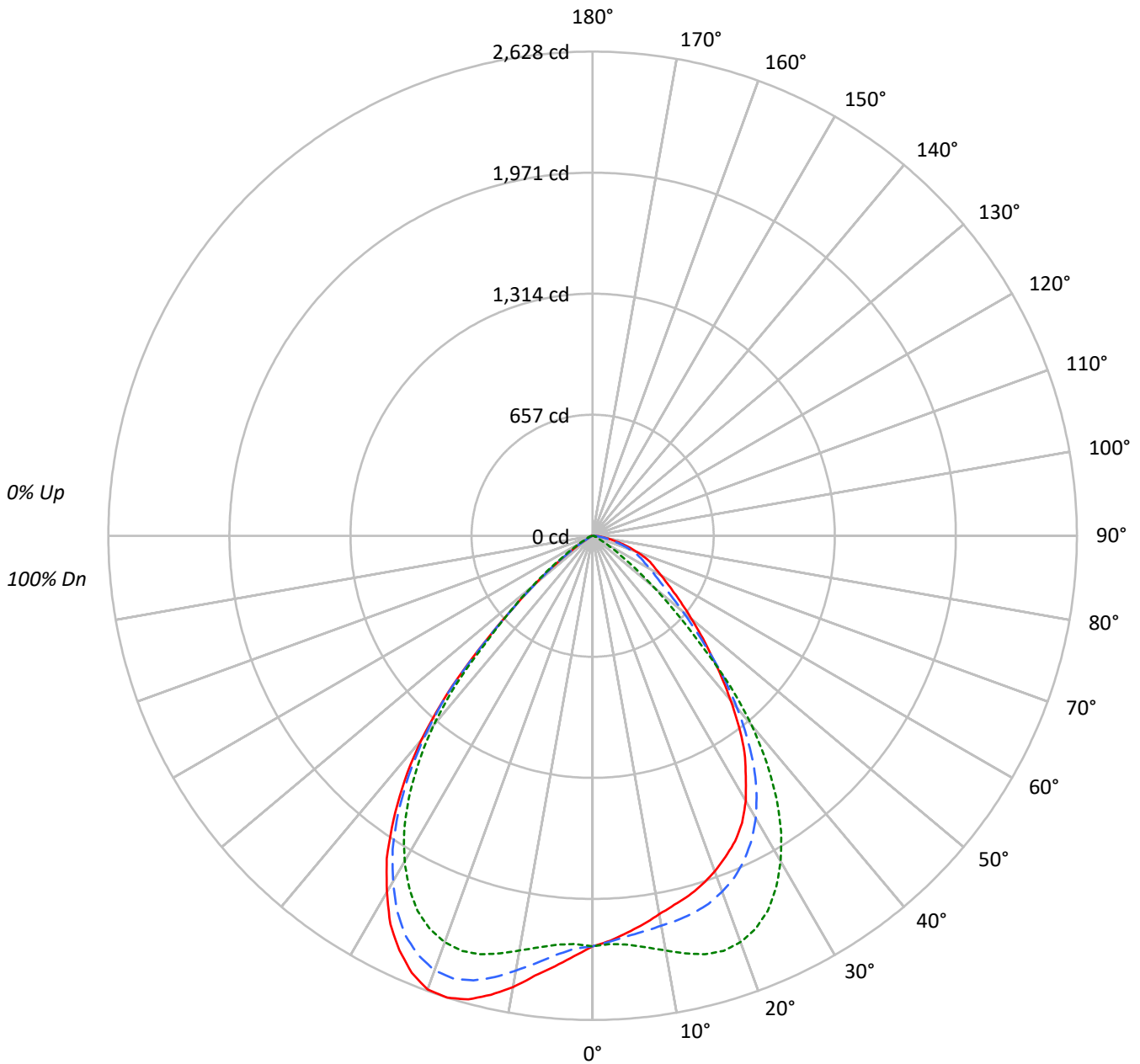
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65			65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53			53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40			40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37			37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	145356	145356	145356
5°	141589	145911	153580
10°	138138	151408	164816
15°	136530	158825	175947
20°	134565	162961	181893
25°	131704	161758	178631
30°	125159	153718	168159
35°	114512	138597	150129
40°	99048	114463	123166
45°	83518	75066	80565
50°	70905	43451	40862
55°	61535	20826	15753
60°	55585	9721	3901
65°	53938	5588	1312
70°	48355	4464	1221
75°	39726	3227	529
80°	29606	1578	0
85°	25526	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.2	5.3
10°-20°	655.9	16.1
20°-30°	1002.1	24.6
30°-40°	1048.1	25.7
40°-50°	679.9	16.7
50°-60°	270.0	6.6
60°-70°	128.1	3.1
70°-80°	60.9	1.5
80°-90°	12.4	0.3
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°	1873.2	46.0
0°-40°	2921.3	71.7
0°-60°	3871.1	95.1
0°-90°	4072.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4072.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2228	2228	2228	2228	2228	
5°	2162	2181	2228	2283	2345	204
15°	2021	2119	2352	2498	2605	570
25°	1830	1945	2247	2398	2482	838
35°	1438	1525	1740	1842	1885	889
45°	905	897	814	863	873	704
55°	541	460	183	143	138	490
65°	349	290	36	8	8	341
75°	158	128	13	4	2	170
85°	34	21	0	0	0	40
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°	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0
2.5°	2200.2	2204.5	2181.1	2174.8	2191.8	2198.1	2200.2	2193.9	2196.0	2204.5	2204.5
5°	2162.0	2166.2	2144.9	2138.5	2155.5	2159.9	2166.2	2164.1	2170.5	2183.2	2181.1
7.5°	2125.8	2132.1	2108.8	2100.1	2121.5	2132.1	2136.4	2136.4	2144.9	2162.0	2164.1
10°	2085.2	2093.8	2072.5	2068.2	2091.6	2102.2	2104.5	2108.8	2121.5	2144.9	2149.1
12.5°	2051.2	2059.8	2044.8	2038.4	2064.0	2074.6	2078.9	2087.4	2102.2	2132.1	2136.4
15°	2021.4	2027.8	2010.8	2006.5	2032.0	2044.8	2046.9	2059.8	2078.9	2113.0	2119.4
17.5°	1983.0	1987.2	1974.5	1970.2	1995.8	2008.6	2010.8	2025.6	2049.0	2083.1	2093.8
20°	1938.2	1942.5	1929.8	1925.5	1951.1	1966.0	1968.1	1980.9	2008.6	2044.8	2055.5
22.5°	1885.0	1893.6	1878.6	1874.4	1900.0	1912.8	1919.1	1929.8	1957.5	1993.6	2008.6
25°	1829.6	1829.6	1819.0	1816.9	1840.4	1855.2	1853.1	1868.0	1895.8	1931.9	1944.8
27.5°	1757.2	1755.1	1744.5	1742.4	1767.9	1780.6	1776.4	1791.4	1816.9	1853.1	1865.9
30°	1661.4	1665.6	1650.8	1646.5	1667.8	1689.1	1687.0	1701.9	1727.4	1761.5	1770.0
32.5°	1546.4	1550.6	1548.5	1542.1	1561.2	1572.0	1578.4	1589.0	1610.2	1646.5	1655.0
35°	1437.8	1431.4	1422.9	1422.9	1442.0	1459.0	1452.6	1465.5	1486.8	1523.0	1525.1
37.5°	1303.5	1301.4	1297.1	1292.9	1314.2	1318.5	1320.6	1329.1	1348.2	1378.1	1373.9
40°	1163.0	1165.1	1163.0	1154.5	1167.2	1184.2	1182.1	1186.4	1203.5	1224.8	1218.4
42.5°	1030.9	1030.9	1030.9	1022.4	1037.2	1045.9	1050.1	1048.0	1052.2	1071.4	1062.9
45°	905.2	907.4	905.2	903.1	905.2	909.5	905.2	903.1	903.1	909.5	896.8
47.5°	796.6	796.6	790.2	783.9	790.2	792.4	786.0	779.6	777.5	775.4	754.0
50°	698.6	696.5	694.4	683.8	690.1	692.2	683.8	679.5	671.0	660.2	634.8
52.5°	613.5	611.2	609.1	598.5	602.8	604.9	596.4	587.9	577.2	568.8	536.8
55°	541.0	538.9	538.9	532.5	528.2	532.5	524.0	517.6	502.6	492.0	460.1
57.5°	479.2	479.2	475.0	468.6	470.8	470.8	462.2	453.8	440.9	428.1	402.6
60°	426.0	426.0	426.0	419.6	419.6	419.6	415.4	406.9	396.1	383.4	357.9
62.5°	383.4	383.4	381.2	374.9	377.0	377.0	372.8	364.2	353.6	345.0	319.5
65°	349.4	349.4	349.4	342.9	342.9	345.0	340.8	332.2	323.8	313.1	289.6
67.5°	306.8	304.6	304.6	300.4	302.5	304.6	300.4	294.0	283.2	276.9	255.6
70°	253.5	255.6	257.8	251.4	253.5	253.5	251.4	245.0	238.5	232.1	213.0
72.5°	206.6	206.6	204.5	202.4	202.4	204.5	200.2	193.9	189.6	185.2	170.4
75°	157.6	155.5	157.6	153.4	153.4	153.4	149.1	147.0	144.9	138.5	127.8
77.5°	115.0	112.9	112.9	108.6	110.8	110.8	108.6	104.4	100.1	98.0	89.5
80°	78.8	78.8	78.8	76.6	76.6	74.5	74.5	72.4	68.1	66.0	61.8
82.5°	53.2	53.2	53.2	51.1	51.1	51.1	49.0	46.9	44.8	42.6	38.4
85°	34.1	34.1	34.1	32.0	32.0	32.0	29.9	29.9	27.8	25.5	21.2
87.5°	19.1	19.1	19.1	17.0	17.0	17.0	17.0	17.0	14.9	12.8	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°	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0
2.5°	2219.5	2189.6	2208.8	2208.8	2202.4	2219.5	2230.1	2238.6	2236.5	2217.4	2215.2
5°	2202.4	2176.9	2198.1	2200.2	2193.9	2217.4	2232.2	2242.9	2245.0	2228.0	2230.1
7.5°	2189.6	2168.4	2196.0	2204.5	2202.4	2223.8	2240.8	2257.8	2266.4	2253.5	2255.6
10°	2183.2	2166.2	2196.0	2208.8	2211.0	2234.4	2259.9	2283.4	2294.0	2285.5	2291.9
12.5°	2174.8	2164.1	2198.1	2217.4	2225.9	2249.2	2281.2	2308.9	2326.0	2321.8	2334.5
15°	2166.2	2157.8	2198.1	2225.9	2236.5	2257.8	2294.0	2334.5	2353.6	2351.5	2368.5
17.5°	2144.9	2142.8	2185.4	2215.2	2230.1	2255.6	2289.8	2338.8	2357.9	2362.1	2383.5
20°	2110.9	2110.9	2157.8	2189.6	2206.6	2230.1	2272.8	2319.6	2343.0	2347.2	2370.8
22.5°	2064.0	2068.2	2113.0	2144.9	2170.5	2187.5	2232.2	2281.2	2302.5	2308.9	2334.5
25°	2002.2	2006.5	2049.0	2081.0	2108.8	2127.9	2170.5	2215.2	2240.8	2247.1	2266.4
27.5°	1921.2	1929.8	1970.2	2002.2	2025.6	2038.4	2083.1	2130.0	2149.1	2155.5	2174.8
30°	1827.5	1829.6	1870.1	1897.9	1921.2	1931.9	1970.2	2019.2	2034.1	2040.5	2068.2
32.5°	1712.5	1710.4	1748.8	1774.2	1793.5	1806.2	1846.8	1878.6	1893.6	1904.2	1919.1
35°	1574.1	1572.0	1599.6	1629.5	1644.4	1648.6	1689.1	1723.1	1731.8	1740.2	1759.4
37.5°	1418.6	1418.6	1442.0	1456.9	1474.0	1480.4	1499.5	1537.9	1552.8	1550.6	1565.5
40°	1254.6	1246.0	1263.1	1278.0	1282.2	1284.4	1303.5	1333.4	1344.0	1344.0	1354.6
42.5°	1082.0	1069.2	1071.4	1079.9	1084.1	1069.2	1082.0	1101.2	1094.9	1103.4	1105.5
45°	898.9	879.8	871.1	852.0	856.2	841.4	832.9	837.1	835.0	813.6	817.9
47.5°	749.8	715.6	700.8	673.1	666.8	649.6	639.0	619.9	602.8	602.8	592.1
50°	624.1	590.0	560.2	528.2	517.6	502.6	479.2	453.8	440.9	428.1	417.5
52.5°	524.0	487.8	451.5	417.5	402.6	383.4	351.5	325.9	302.5	289.6	276.9
55°	443.0	402.6	364.2	328.0	308.9	289.6	257.8	227.9	200.2	183.1	172.5
57.5°	381.2	342.9	302.5	264.1	247.1	225.8	191.8	159.8	134.2	115.0	104.4
60°	336.5	298.2	262.0	221.5	204.5	183.1	147.0	117.1	91.6	74.5	61.8
62.5°	298.2	264.1	225.8	189.6	172.5	151.2	117.1	87.4	63.9	46.9	36.2
65°	270.5	236.4	204.5	168.2	153.4	132.0	100.1	72.4	51.1	36.2	25.5
67.5°	238.5	208.8	176.8	147.0	132.0	115.0	85.2	61.8	42.6	29.9	21.2
70°	200.2	176.8	149.1	121.4	110.8	95.9	70.2	51.1	34.1	23.4	17.0
72.5°	159.8	140.6	119.2	98.0	89.5	74.5	57.5	40.5	25.5	17.0	12.8
75°	121.4	106.5	89.5	74.5	66.0	57.5	42.6	29.9	19.1	12.8	8.5
77.5°	83.1	76.6	63.9	51.1	46.9	40.5	27.8	19.1	12.8	8.5	4.2
80°	57.5	51.1	42.6	34.1	29.9	25.5	17.0	12.8	6.4	4.2	2.1
82.5°	36.2	29.9	25.5	21.2	19.1	14.9	10.6	6.4	4.2	2.1	2.1
85°	19.1	17.0	14.9	10.6	10.6	8.5	6.4	4.2	2.1	0.0	0.0
87.5°	10.6	8.5	6.4	4.2	4.2	2.1	2.1	2.1	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°	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0
2.5°	2240.8	2240.8	2238.6	2264.2	2234.4	2264.2	2249.2	2264.2	2242.9	2240.8	2242.9
5°	2257.8	2264.2	2266.4	2289.8	2262.0	2298.2	2285.5	2298.2	2283.4	2287.6	2294.0
7.5°	2291.9	2302.5	2300.4	2330.2	2302.5	2343.0	2334.5	2353.6	2338.8	2343.0	2351.5
10°	2330.2	2343.0	2345.1	2375.0	2349.4	2398.4	2387.8	2409.0	2396.2	2402.6	2413.2
12.5°	2375.0	2389.9	2392.0	2426.1	2398.4	2449.5	2443.1	2464.4	2453.8	2460.1	2472.9
15°	2409.0	2430.4	2434.6	2468.6	2438.9	2492.1	2487.9	2515.5	2498.5	2509.1	2519.8
17.5°	2426.1	2445.2	2453.8	2485.8	2460.1	2513.4	2509.1	2532.6	2519.8	2530.5	2543.2
20°	2415.4	2438.9	2445.2	2477.2	2451.6	2504.9	2498.5	2521.9	2509.1	2517.6	2530.5
22.5°	2377.1	2400.5	2409.0	2438.9	2415.4	2464.4	2462.2	2483.6	2466.5	2477.2	2487.9
25°	2308.9	2334.5	2338.8	2366.4	2340.9	2392.0	2387.8	2411.1	2398.4	2404.8	2419.6
27.5°	2211.0	2240.8	2247.1	2270.6	2251.4	2294.0	2294.0	2313.1	2298.2	2298.2	2313.1
30°	2093.8	2123.6	2127.9	2147.0	2130.0	2168.4	2170.5	2189.6	2166.2	2179.0	2181.1
32.5°	1951.1	1970.2	1983.0	2000.1	1974.5	2023.5	2017.1	2032.0	2019.2	2019.2	2029.9
35°	1778.5	1802.0	1808.4	1829.6	1808.4	1846.8	1846.8	1855.2	1842.5	1842.5	1859.5
37.5°	1591.1	1608.1	1610.2	1631.6	1614.5	1646.5	1644.4	1650.8	1638.0	1646.5	1646.5
40°	1371.8	1384.5	1388.8	1399.4	1397.2	1420.8	1418.6	1422.9	1416.5	1418.6	1422.9
42.5°	1116.1	1133.1	1141.6	1150.2	1137.4	1169.4	1163.0	1169.4	1167.2	1169.4	1175.8
45°	822.1	835.0	841.4	843.5	839.2	858.4	873.2	860.5	862.6	858.4	866.9
47.5°	594.2	596.4	592.1	604.9	594.2	602.8	607.0	609.1	596.4	594.2	602.8
50°	406.9	417.5	402.6	409.0	406.9	415.4	411.1	413.2	400.5	406.9	402.6
52.5°	270.5	268.4	264.1	266.2	262.0	262.0	262.0	266.2	257.8	253.5	249.2
55°	164.0	159.8	151.2	149.1	149.1	151.2	147.0	142.8	142.8	140.6	140.6
57.5°	95.9	89.5	85.2	83.1	78.8	76.6	74.5	74.5	70.2	70.2	70.2
60°	53.2	46.9	42.6	38.4	38.4	36.2	34.1	32.0	32.0	32.0	29.9
62.5°	27.8	23.4	19.1	17.0	17.0	14.9	12.8	12.8	12.8	12.8	10.6
65°	19.1	14.9	12.8	10.6	10.6	8.5	8.5	8.5	8.5	8.5	8.5
67.5°	14.9	12.8	10.6	8.5	8.5	8.5	6.4	6.4	6.4	6.4	6.4
70°	12.8	8.5	8.5	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
72.5°	8.5	8.5	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
75°	6.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
80°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	0.0	0.0	0.0	0.0	0.0	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





TEST NUMBER: P252175

CATALOG NUMBER: LE\_6B30D010 EC6B30509035 6LBSW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0
2.5°	2262.0	2259.9	2262.0	2266.4	2257.8	2283.4	2270.6	2283.4
5°	2311.0	2313.1	2315.2	2321.8	2311.0	2343.0	2326.0	2345.1
7.5°	2375.0	2377.1	2379.2	2385.6	2379.2	2411.1	2392.0	2409.0
10°	2441.0	2445.2	2445.2	2455.9	2449.5	2479.4	2466.5	2487.9
12.5°	2502.8	2507.0	2511.2	2517.6	2513.4	2545.4	2534.8	2551.8
15°	2551.8	2560.2	2562.4	2570.9	2566.6	2600.8	2588.0	2605.0
17.5°	2575.1	2583.8	2583.8	2594.4	2590.1	2626.2	2609.2	2628.4
20°	2562.4	2568.8	2570.9	2581.5	2577.2	2613.5	2596.5	2619.9
22.5°	2521.9	2524.0	2526.1	2536.9	2534.8	2566.6	2551.8	2566.6
25°	2447.4	2453.8	2451.6	2460.1	2460.1	2485.8	2468.6	2481.5
27.5°	2340.9	2347.2	2347.2	2357.9	2349.4	2375.0	2357.9	2377.1
30°	2211.0	2217.4	2213.1	2221.6	2213.1	2238.6	2225.9	2232.2
32.5°	2055.5	2055.5	2057.6	2059.8	2055.5	2078.9	2066.1	2078.9
35°	1870.1	1874.4	1876.5	1878.6	1874.4	1891.5	1876.5	1885.0
37.5°	1661.4	1672.0	1669.9	1672.0	1665.6	1687.0	1674.1	1678.5
40°	1437.8	1437.8	1435.6	1439.9	1433.5	1450.5	1442.0	1446.2
42.5°	1177.9	1184.2	1175.8	1186.4	1169.4	1192.8	1184.2	1177.9
45°	884.0	875.4	873.2	875.4	869.0	871.1	877.5	873.2
47.5°	602.8	602.8	598.5	592.1	600.6	602.8	594.2	594.2
50°	404.8	404.8	400.5	398.2	402.6	400.5	396.1	402.6
52.5°	257.8	249.2	249.2	253.5	249.2	245.0	251.4	247.1
55°	140.6	136.4	136.4	140.6	136.4	136.4	134.2	138.5
57.5°	68.1	70.2	68.1	68.1	68.1	68.1	66.0	68.1
60°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
62.5°	12.8	12.8	10.6	10.6	10.6	10.6	10.6	10.6
65°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
67.5°	6.4	6.4	6.4	6.4	6.4	8.5	6.4	6.4
70°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
72.5°	6.4	6.4	8.5	8.5	8.5	8.5	8.5	8.5
75°	4.2	4.2	4.2	2.1	2.1	2.1	2.1	2.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



Report Generated By E9808895 / USPTCWHP6082093





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















(END OF REPORT)