

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: P212813

Luminaire Tested: **LE\_6B30D010 EC6B30508050 6LBSWL11**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212813  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29203)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B30D010 EC6B30508050 6LBSWL1  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3654.0 lumens  
Efficiency: N/A  
Efficacy: 130.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.18  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

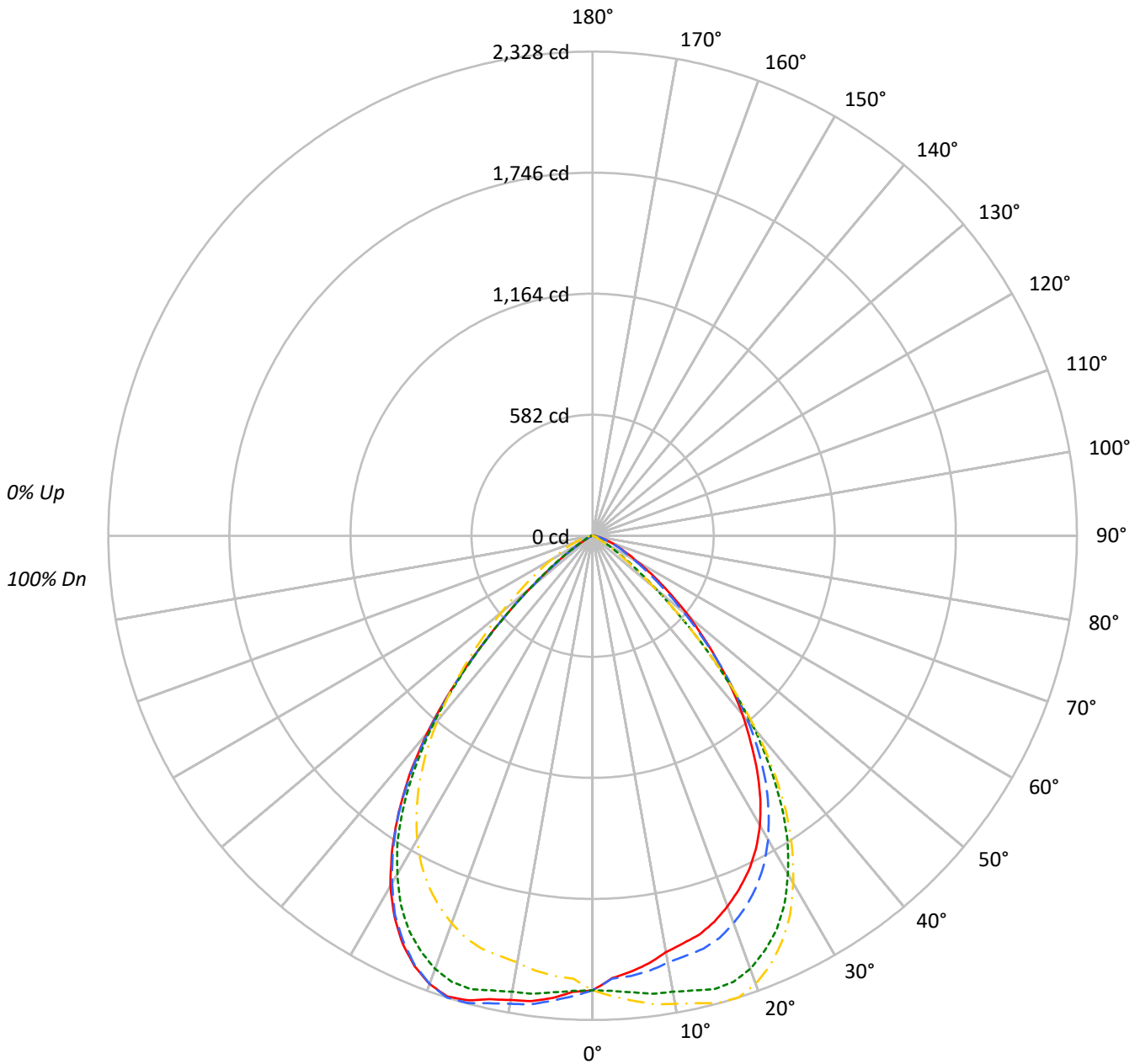
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	99	99	97	96	95	94	93	91																			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82																			
3	98	91	84	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73																			
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66																			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60																			
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54																			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49																			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45																			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42																			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38																			

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

	0°	90°	180°	270°
0°	119809	119809	119809	119809
5°	115782	121241	122782	121241
10°	113163	123918	126189	123918
15°	112628	128082	131249	128082
20°	110575	129278	133735	129278
25°	107420	126503	130810	126503
30°	101788	118854	123044	118854
35°	92287	105906	108804	105906
40°	80114	86305	88487	86305
45°	65681	59572	59967	59572
50°	51640	33415	32758	33415
55°	38183	16535	14833	16535
60°	27059	7247	5307	7247
65°	20132	4618	3308	4618
70°	14682	3670	2436	3670
75°	10781	2711	1610	2711
80°	7229	2399	789	2399
85°	4780	1572	1572	1572



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.2	5.7
10°-20°	619.7	17.0
20°-30°	924.7	25.3
30°-40°	950.1	26.0
40°-50°	615.2	16.8
50°-60°	228.8	6.3
60°-70°	75.1	2.1
70°-80°	26.5	0.7
80°-90°	4.7	0.1
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°	1753.6	48.0
0°-40°	2703.7	74.0
0°-60°	3547.7	97.1
0°-90°	3654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3654.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2186	2186	2186	2186	2186	
5°	2104	2203	2231	2203	2104	199
15°	1984	2257	2313	2257	1984	558
25°	1776	2091	2163	2091	1776	814
35°	1379	1582	1626	1582	1379	856
45°	847	768	774	768	847	655
55°	400	173	155	173	400	364
65°	155	36	26	36	155	158
75°	51	13	8	13	51	56
85°	8	2	2	2	8	10
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°	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5
2.5°	2129.5	2160.0	2139.6	2152.4	2132.0	2132.0	2172.8	2149.9	2167.6	2149.9	2132.0
5°	2104.0	2142.2	2116.8	2129.5	2111.8	2114.2	2152.4	2134.6	2152.4	2139.6	2124.4
7.5°	2073.5	2111.8	2088.8	2101.5	2083.8	2088.8	2129.5	2111.8	2132.0	2119.4	2109.1
10°	2032.9	2073.5	2053.1	2065.9	2050.6	2053.1	2093.9	2081.1	2099.0	2091.4	2083.8
12.5°	2007.4	2045.5	2022.6	2035.4	2025.2	2030.2	2068.5	2058.2	2081.1	2073.5	2068.5
15°	1984.5	2020.1	1999.8	2012.5	2004.9	2007.4	2048.1	2037.9	2063.4	2058.2	2055.8
17.5°	1946.4	1984.5	1961.6	1976.9	1969.2	1971.8	2012.5	2004.9	2030.2	2030.2	2027.8
20°	1895.4	1933.6	1915.8	1926.0	1920.9	1926.0	1961.6	1956.5	1982.0	1982.0	1982.0
22.5°	1839.5	1877.6	1857.2	1867.5	1862.4	1870.0	1903.1	1903.1	1923.4	1926.0	1928.5
25°	1775.9	1814.0	1793.6	1806.4	1801.2	1806.4	1836.9	1839.5	1857.2	1857.2	1862.4
27.5°	1699.5	1737.8	1717.4	1727.5	1725.0	1727.5	1760.6	1765.6	1775.9	1778.4	1783.5
30°	1608.0	1643.5	1623.2	1633.4	1633.4	1633.4	1666.5	1669.0	1679.1	1681.8	1686.8
32.5°	1501.1	1531.6	1516.4	1526.5	1524.0	1529.1	1552.0	1562.1	1574.9	1572.4	1574.9
35°	1379.0	1412.0	1396.8	1404.4	1407.0	1414.6	1429.9	1442.6	1445.1	1447.6	1452.8
37.5°	1246.6	1279.8	1264.5	1272.1	1274.6	1289.9	1295.0	1307.8	1312.8	1312.8	1312.8
40°	1119.5	1134.8	1122.0	1129.6	1132.1	1144.9	1150.0	1160.1	1165.2	1162.8	1160.1
42.5°	982.1	994.8	982.1	989.8	989.8	999.9	1002.4	1015.1	1015.1	1010.0	1002.4
45°	847.2	860.0	847.2	852.2	852.2	862.5	862.5	862.5	867.6	860.0	847.2
47.5°	720.0	732.8	720.0	725.1	722.5	730.2	727.6	730.2	722.5	717.5	702.2
50°	605.5	610.6	605.5	603.0	605.5	610.6	608.1	608.1	597.9	590.2	572.5
52.5°	493.6	501.2	493.6	493.6	493.6	498.6	498.6	496.1	486.0	475.8	458.0
55°	399.5	404.5	402.0	399.5	399.5	404.5	399.5	399.5	389.2	381.6	363.9
57.5°	318.0	320.6	318.0	318.0	318.0	320.6	320.6	315.5	307.9	300.2	287.5
60°	246.8	249.4	249.4	246.8	246.8	251.9	251.9	249.4	241.8	236.6	223.9
62.5°	195.9	195.9	195.9	195.9	195.9	198.5	198.5	198.5	193.4	188.2	178.1
65°	155.2	157.8	155.2	155.2	157.8	160.2	157.8	160.2	155.2	152.6	145.0
67.5°	119.6	122.1	119.6	122.1	122.1	124.6	122.1	124.6	119.6	117.0	112.0
70°	91.6	91.6	91.6	91.6	91.6	94.1	91.6	94.1	91.6	89.0	84.0
72.5°	68.8	68.8	71.2	71.2	68.8	71.2	68.8	68.8	68.8	66.1	63.6
75°	50.9	50.9	53.4	50.9	50.9	50.9	50.9	50.9	48.4	48.4	45.8
77.5°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	33.1	33.1	30.5
80°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	20.4	20.4
82.5°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	12.8	12.8
85°	7.6	7.6	7.6	10.1	7.6	7.6	7.6	7.6	7.6	7.6	7.6
87.5°	2.5	2.5	2.5	5.1	2.5	2.5	5.1	5.1	2.5	2.5	2.5
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°	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5
2.5°	2152.4	2160.0	2160.0	2152.4	2170.2	2155.0	2185.5	2157.5	2165.1	2190.6	2188.0
5°	2144.8	2155.0	2157.5	2152.4	2175.2	2162.6	2193.1	2165.1	2177.9	2203.2	2203.2
7.5°	2134.6	2147.4	2152.4	2157.5	2177.9	2165.1	2200.8	2172.8	2190.6	2221.1	2218.5
10°	2111.8	2129.5	2139.6	2147.4	2167.6	2160.0	2198.2	2175.2	2190.6	2226.1	2223.6
12.5°	2099.0	2119.4	2134.6	2147.4	2170.2	2165.1	2203.2	2182.9	2203.2	2238.9	2238.9
15°	2088.8	2111.8	2129.5	2152.4	2175.2	2170.2	2210.9	2193.1	2213.5	2256.8	2254.1
17.5°	2063.4	2091.4	2109.1	2134.6	2157.5	2155.0	2198.2	2185.5	2208.4	2249.1	2251.6
20°	2020.1	2045.5	2065.9	2096.4	2121.9	2116.8	2162.6	2149.9	2172.8	2216.0	2218.5
22.5°	1964.1	1989.6	2009.9	2043.0	2065.9	2063.4	2109.1	2096.4	2119.4	2160.0	2162.6
25°	1898.0	1920.9	1941.2	1971.8	1997.2	1997.2	2037.9	2025.2	2050.6	2091.4	2091.4
27.5°	1816.6	1836.9	1854.8	1890.4	1910.8	1910.8	1948.9	1936.1	1961.6	1997.2	1994.6
30°	1717.4	1735.1	1750.4	1781.0	1798.8	1801.2	1834.4	1821.6	1847.1	1877.6	1877.6
32.5°	1597.8	1615.6	1625.8	1663.9	1676.6	1674.1	1699.5	1686.8	1712.2	1745.4	1737.8
35°	1470.5	1478.1	1485.9	1524.0	1529.1	1518.9	1544.4	1531.6	1549.4	1582.5	1577.4
37.5°	1325.5	1328.1	1328.1	1361.1	1363.8	1356.1	1371.4	1356.1	1368.8	1399.4	1396.8
40°	1165.2	1162.8	1160.1	1185.6	1183.0	1167.8	1178.0	1165.2	1183.0	1206.0	1193.2
42.5°	1002.4	994.8	984.6	997.4	987.1	974.4	979.5	959.1	971.9	989.8	974.4
45°	842.1	826.9	806.5	809.0	796.4	781.1	773.5	753.1	750.5	768.4	755.6
47.5°	692.0	661.5	643.6	633.5	613.1	600.4	585.1	562.2	552.1	562.2	549.5
50°	557.1	526.6	503.8	480.9	460.5	445.2	419.8	404.5	389.2	391.8	381.6
52.5°	440.1	419.8	381.6	363.9	343.5	325.6	302.8	285.0	267.1	267.1	257.0
55°	348.5	320.6	295.1	269.6	249.4	234.1	211.1	193.4	175.5	173.0	162.9
57.5°	269.6	249.4	221.4	195.9	183.1	167.9	145.0	124.6	114.5	106.9	99.2
60°	208.6	188.2	165.4	145.0	129.8	119.6	96.6	81.4	71.2	66.1	58.5
62.5°	167.9	150.1	129.8	109.4	99.2	89.0	71.2	58.5	48.4	43.2	38.1
65°	134.9	119.6	104.4	89.0	81.4	71.2	58.5	48.4	40.8	35.6	30.5
67.5°	104.4	94.1	81.4	71.2	63.6	56.0	45.8	38.1	33.1	28.0	25.5
70°	78.9	71.2	63.6	53.4	48.4	43.2	35.6	28.0	25.5	22.9	20.4
72.5°	61.0	53.4	45.8	40.8	35.6	33.1	28.0	22.9	20.4	17.8	15.2
75°	40.8	38.1	33.1	28.0	25.5	22.9	20.4	17.8	15.2	12.8	12.8
77.5°	28.0	25.5	22.9	20.4	17.8	17.8	15.2	12.8	10.1	10.1	7.6
80°	17.8	15.2	15.2	12.8	12.8	12.8	10.1	7.6	7.6	7.6	5.1
82.5°	12.8	10.1	10.1	7.6	7.6	7.6	7.6	5.1	5.1	5.1	2.5
85°	7.6	5.1	5.1	5.1	5.1	5.1	5.1	2.5	2.5	2.5	2.5
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	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°	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5
2.5°	2167.6	2190.6	2190.6	2210.9	2213.5	2208.4	2185.5	2185.5	2216.0	2233.9	2203.2
5°	2188.0	2210.9	2210.9	2231.2	2241.5	2233.9	2210.9	2213.5	2244.0	2264.4	2233.9
7.5°	2205.9	2228.8	2233.9	2256.8	2264.4	2256.8	2233.9	2238.9	2272.0	2289.8	2259.2
10°	2213.5	2236.4	2238.9	2264.4	2274.5	2264.4	2246.5	2249.1	2284.8	2297.4	2269.4
12.5°	2231.2	2254.1	2254.1	2282.1	2292.4	2284.8	2261.8	2266.9	2302.5	2315.2	2287.2
15°	2249.1	2272.0	2272.0	2302.5	2315.2	2305.0	2287.2	2289.8	2325.4	2338.1	2315.2
17.5°	2249.1	2269.4	2269.4	2302.5	2315.2	2307.6	2287.2	2289.8	2328.0	2338.1	2315.2
20°	2216.0	2238.9	2233.9	2266.9	2279.6	2272.0	2254.1	2254.1	2292.4	2302.5	2279.6
22.5°	2162.6	2182.9	2177.9	2208.4	2223.6	2213.5	2198.2	2195.6	2233.9	2244.0	2221.1
25°	2088.8	2109.1	2104.0	2134.6	2149.9	2137.1	2119.4	2121.9	2152.4	2167.6	2147.4
27.5°	2002.2	2015.0	2007.4	2037.9	2053.1	2040.5	2022.6	2025.2	2055.8	2065.9	2050.6
30°	1885.2	1895.4	1887.8	1913.2	1923.4	1915.8	1900.5	1900.5	1928.5	1941.2	1926.0
32.5°	1745.4	1753.0	1745.4	1765.6	1786.0	1770.8	1755.5	1755.5	1786.0	1796.2	1778.4
35°	1582.5	1590.1	1585.0	1605.4	1620.6	1600.2	1587.6	1582.5	1623.2	1618.1	1608.0
37.5°	1401.9	1407.0	1391.6	1427.2	1434.9	1412.0	1401.9	1396.8	1432.4	1429.9	1419.6
40°	1198.4	1203.4	1193.2	1218.6	1221.2	1203.4	1195.8	1188.1	1223.8	1221.2	1213.6
42.5°	982.1	984.6	971.9	992.2	997.4	979.5	977.0	966.8	999.9	994.8	992.2
45°	758.1	758.1	748.0	763.2	768.4	753.1	748.0	745.5	768.4	768.4	763.2
47.5°	549.5	541.9	529.2	552.1	554.6	544.5	541.9	534.2	557.1	557.1	552.1
50°	376.5	374.0	371.5	376.5	379.1	366.4	374.0	366.4	379.1	379.1	379.1
52.5°	251.9	249.4	244.2	249.4	249.4	241.8	241.8	239.1	249.4	249.4	244.2
55°	157.8	155.2	152.6	155.2	155.2	147.6	152.6	147.6	152.6	152.6	150.1
57.5°	96.6	91.6	91.6	89.0	89.0	84.0	86.5	86.5	86.5	86.5	86.5
60°	56.0	53.4	50.9	50.9	50.9	48.4	48.4	48.4	48.4	48.4	48.4
62.5°	35.6	35.6	33.1	33.1	33.1	33.1	33.1	30.5	33.1	33.1	33.1
65°	30.5	28.0	28.0	28.0	28.0	25.5	25.5	25.5	25.5	25.5	25.5
67.5°	25.5	22.9	22.9	22.9	22.9	20.4	20.4	20.4	20.4	20.4	20.4
70°	20.4	17.8	17.8	17.8	17.8	17.8	15.2	17.8	17.8	15.2	15.2
72.5°	15.2	15.2	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
75°	10.1	10.1	10.1	10.1	10.1	7.6	7.6	7.6	7.6	7.6	7.6
77.5°	7.6	7.6	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
80°	5.1	5.1	5.1	5.1	5.1	2.5	2.5	2.5	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	2.5	2.5	2.5	2.5	2.5	0.0	2.5	0.0	2.5	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: P212813

CATALOG NUMBER: LE\_6B30D010 EC6B30508050 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5
2.5°	2238.9	2213.5	2200.8	2226.1	2236.4	2223.6	2213.5	2195.6	2213.5	2223.6	2236.4
5°	2269.4	2246.5	2236.4	2254.1	2269.4	2256.8	2249.1	2231.2	2249.1	2256.8	2269.4
7.5°	2297.4	2274.5	2261.8	2279.6	2297.4	2279.6	2272.0	2256.8	2272.0	2279.6	2297.4
10°	2307.6	2282.1	2272.0	2287.2	2305.0	2287.2	2277.1	2266.9	2277.1	2287.2	2305.0
12.5°	2325.4	2300.0	2287.2	2300.0	2317.8	2300.0	2289.8	2282.1	2289.8	2300.0	2317.8
15°	2350.9	2328.0	2312.6	2325.4	2348.2	2328.0	2315.2	2312.6	2315.2	2328.0	2348.2
17.5°	2350.9	2333.0	2317.8	2328.0	2350.9	2335.6	2317.8	2322.9	2317.8	2335.6	2350.9
20°	2317.8	2300.0	2287.2	2287.2	2320.4	2300.0	2284.8	2292.4	2284.8	2300.0	2320.4
22.5°	2259.2	2244.0	2231.2	2228.8	2261.8	2244.0	2223.6	2238.9	2223.6	2244.0	2261.8
25°	2182.9	2167.6	2157.5	2152.4	2185.5	2165.1	2147.4	2162.6	2147.4	2165.1	2185.5
27.5°	2083.8	2071.0	2060.8	2053.1	2083.8	2065.9	2048.1	2063.4	2048.1	2065.9	2083.8
30°	1956.5	1948.9	1938.8	1928.5	1959.0	1941.2	1923.4	1943.8	1923.4	1941.2	1959.0
32.5°	1808.9	1803.9	1791.1	1781.0	1811.5	1791.1	1778.4	1793.6	1778.4	1791.1	1811.5
35°	1638.5	1630.9	1623.2	1605.4	1638.5	1620.6	1620.6	1625.8	1620.6	1620.6	1638.5
37.5°	1447.6	1442.6	1432.4	1417.1	1445.1	1432.4	1427.2	1442.6	1427.2	1432.4	1445.1
40°	1234.0	1231.4	1223.8	1206.0	1236.5	1223.8	1216.1	1236.5	1216.1	1223.8	1236.5
42.5°	1010.0	1005.0	997.4	994.8	1010.0	999.9	1007.5	1007.5	1007.5	999.9	1010.0
45°	778.5	773.5	768.4	758.1	776.0	770.9	768.4	773.5	768.4	770.9	776.0
47.5°	564.9	559.8	554.6	547.0	564.9	557.1	557.1	562.2	557.1	557.1	564.9
50°	379.1	381.6	379.1	374.0	379.1	376.5	379.1	384.1	379.1	376.5	379.1
52.5°	251.9	251.9	246.8	244.2	249.4	246.8	254.4	249.4	254.4	246.8	249.4
55°	152.6	155.2	152.6	150.1	152.6	150.1	157.8	155.2	157.8	150.1	152.6
57.5°	86.5	86.5	89.0	86.5	91.6	89.0	89.0	89.0	89.0	89.0	91.6
60°	48.4	48.4	48.4	48.4	48.4	48.4	50.9	48.4	50.9	48.4	48.4
62.5°	33.1	33.1	33.1	30.5	33.1	30.5	33.1	33.1	33.1	30.5	33.1
65°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
67.5°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
70°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
72.5°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
75°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
77.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	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: P212813

CATALOG NUMBER: LE\_6B30D010 EC6B30508050 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5
2.5°	2226.1	2200.8	2213.5	2238.9	2203.2	2233.9	2216.0	2185.5	2185.5	2208.4	2213.5
5°	2254.1	2236.4	2246.5	2269.4	2233.9	2264.4	2244.0	2213.5	2210.9	2233.9	2241.5
7.5°	2279.6	2261.8	2274.5	2297.4	2259.2	2289.8	2272.0	2238.9	2233.9	2256.8	2264.4
10°	2287.2	2272.0	2282.1	2307.6	2269.4	2297.4	2284.8	2249.1	2246.5	2264.4	2274.5
12.5°	2300.0	2287.2	2300.0	2325.4	2287.2	2315.2	2302.5	2266.9	2261.8	2284.8	2292.4
15°	2325.4	2312.6	2328.0	2350.9	2315.2	2338.1	2325.4	2289.8	2287.2	2305.0	2315.2
17.5°	2328.0	2317.8	2333.0	2350.9	2315.2	2338.1	2328.0	2289.8	2287.2	2307.6	2315.2
20°	2287.2	2287.2	2300.0	2317.8	2279.6	2302.5	2292.4	2254.1	2254.1	2272.0	2279.6
22.5°	2228.8	2231.2	2244.0	2259.2	2221.1	2244.0	2233.9	2195.6	2198.2	2213.5	2223.6
25°	2152.4	2157.5	2167.6	2182.9	2147.4	2167.6	2152.4	2121.9	2119.4	2137.1	2149.9
27.5°	2053.1	2060.8	2071.0	2083.8	2050.6	2065.9	2055.8	2025.2	2022.6	2040.5	2053.1
30°	1928.5	1938.8	1948.9	1956.5	1926.0	1941.2	1928.5	1900.5	1900.5	1915.8	1923.4
32.5°	1781.0	1791.1	1803.9	1808.9	1778.4	1796.2	1786.0	1755.5	1755.5	1770.8	1786.0
35°	1605.4	1623.2	1630.9	1638.5	1608.0	1618.1	1623.2	1582.5	1587.6	1600.2	1620.6
37.5°	1417.1	1432.4	1442.6	1447.6	1419.6	1429.9	1432.4	1396.8	1401.9	1412.0	1434.9
40°	1206.0	1223.8	1231.4	1234.0	1213.6	1221.2	1223.8	1188.1	1195.8	1203.4	1221.2
42.5°	994.8	997.4	1005.0	1010.0	992.2	994.8	999.9	966.8	977.0	979.5	997.4
45°	758.1	768.4	773.5	778.5	763.2	768.4	768.4	745.5	748.0	753.1	768.4
47.5°	547.0	554.6	559.8	564.9	552.1	557.1	557.1	534.2	541.9	544.5	554.6
50°	374.0	379.1	381.6	379.1	379.1	379.1	379.1	366.4	374.0	366.4	379.1
52.5°	244.2	246.8	251.9	251.9	244.2	249.4	249.4	239.1	241.8	241.8	249.4
55°	150.1	152.6	155.2	152.6	150.1	152.6	152.6	147.6	152.6	147.6	155.2
57.5°	86.5	89.0	86.5	86.5	86.5	86.5	86.5	86.5	86.5	84.0	89.0
60°	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	50.9
62.5°	30.5	33.1	33.1	33.1	33.1	33.1	33.1	30.5	33.1	33.1	33.1
65°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	28.0
67.5°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	22.9
70°	15.2	15.2	15.2	15.2	15.2	15.2	17.8	17.8	15.2	17.8	17.8
72.5°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
75°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	10.1
77.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.1
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	2.5	0.0	2.5
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: P212813

CATALOG NUMBER: LE\_6B30D010 EC6B30508050 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5
2.5°	2210.9	2190.6	2190.6	2167.6	2188.0	2190.6	2165.1	2157.5	2185.5	2155.0	2170.2
5°	2231.2	2210.9	2210.9	2188.0	2203.2	2203.2	2177.9	2165.1	2193.1	2162.6	2175.2
7.5°	2256.8	2233.9	2228.8	2205.9	2218.5	2221.1	2190.6	2172.8	2200.8	2165.1	2177.9
10°	2264.4	2238.9	2236.4	2213.5	2223.6	2226.1	2190.6	2175.2	2198.2	2160.0	2167.6
12.5°	2282.1	2254.1	2254.1	2231.2	2238.9	2238.9	2203.2	2182.9	2203.2	2165.1	2170.2
15°	2302.5	2272.0	2272.0	2249.1	2254.1	2256.8	2213.5	2193.1	2210.9	2170.2	2175.2
17.5°	2302.5	2269.4	2269.4	2249.1	2251.6	2249.1	2208.4	2185.5	2198.2	2155.0	2157.5
20°	2266.9	2233.9	2238.9	2216.0	2218.5	2216.0	2172.8	2149.9	2162.6	2116.8	2121.9
22.5°	2208.4	2177.9	2182.9	2162.6	2162.6	2160.0	2119.4	2096.4	2109.1	2063.4	2065.9
25°	2134.6	2104.0	2109.1	2088.8	2091.4	2091.4	2050.6	2025.2	2037.9	1997.2	1997.2
27.5°	2037.9	2007.4	2015.0	2002.2	1994.6	1997.2	1961.6	1936.1	1948.9	1910.8	1910.8
30°	1913.2	1887.8	1895.4	1885.2	1877.6	1877.6	1847.1	1821.6	1834.4	1801.2	1798.8
32.5°	1765.6	1745.4	1753.0	1745.4	1737.8	1745.4	1712.2	1686.8	1699.5	1674.1	1676.6
35°	1605.4	1585.0	1590.1	1582.5	1577.4	1582.5	1549.4	1531.6	1544.4	1518.9	1529.1
37.5°	1427.2	1391.6	1407.0	1401.9	1396.8	1399.4	1368.8	1356.1	1371.4	1356.1	1363.8
40°	1218.6	1193.2	1203.4	1198.4	1193.2	1206.0	1183.0	1165.2	1178.0	1167.8	1183.0
42.5°	992.2	971.9	984.6	982.1	974.4	989.8	971.9	959.1	979.5	974.4	987.1
45°	763.2	748.0	758.1	758.1	755.6	768.4	750.5	753.1	773.5	781.1	796.4
47.5°	552.1	529.2	541.9	549.5	549.5	562.2	552.1	562.2	585.1	600.4	613.1
50°	376.5	371.5	374.0	376.5	381.6	391.8	389.2	404.5	419.8	445.2	460.5
52.5°	249.4	244.2	249.4	251.9	257.0	267.1	267.1	285.0	302.8	325.6	343.5
55°	155.2	152.6	155.2	157.8	162.9	173.0	175.5	193.4	211.1	234.1	249.4
57.5°	89.0	91.6	91.6	96.6	99.2	106.9	114.5	124.6	145.0	167.9	183.1
60°	50.9	50.9	53.4	56.0	58.5	66.1	71.2	81.4	96.6	119.6	129.8
62.5°	33.1	33.1	35.6	35.6	38.1	43.2	48.4	58.5	71.2	89.0	99.2
65°	28.0	28.0	28.0	30.5	30.5	35.6	40.8	48.4	58.5	71.2	81.4
67.5°	22.9	22.9	22.9	25.5	25.5	28.0	33.1	38.1	45.8	56.0	63.6
70°	17.8	17.8	17.8	20.4	20.4	22.9	25.5	28.0	35.6	43.2	48.4
72.5°	12.8	12.8	15.2	15.2	15.2	17.8	20.4	22.9	28.0	33.1	35.6
75°	10.1	10.1	10.1	10.1	12.8	12.8	15.2	17.8	20.4	22.9	25.5
77.5°	5.1	5.1	7.6	7.6	7.6	10.1	10.1	12.8	15.2	17.8	17.8
80°	5.1	5.1	5.1	5.1	5.1	7.6	7.6	7.6	10.1	12.8	12.8
82.5°	2.5	2.5	2.5	2.5	2.5	5.1	5.1	5.1	7.6	7.6	7.6
85°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.1	5.1	5.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5	2.5
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: P212813

CATALOG NUMBER: LE\_6B30D010 EC6B30508050 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5	2185.5
2.5°	2152.4	2160.0	2160.0	2152.4	2132.0	2149.9	2167.6	2149.9	2172.8	2132.0	2132.0
5°	2152.4	2157.5	2155.0	2144.8	2124.4	2139.6	2152.4	2134.6	2152.4	2114.2	2111.8
7.5°	2157.5	2152.4	2147.4	2134.6	2109.1	2119.4	2132.0	2111.8	2129.5	2088.8	2083.8
10°	2147.4	2139.6	2129.5	2111.8	2083.8	2091.4	2099.0	2081.1	2093.9	2053.1	2050.6
12.5°	2147.4	2134.6	2119.4	2099.0	2068.5	2073.5	2081.1	2058.2	2068.5	2030.2	2025.2
15°	2152.4	2129.5	2111.8	2088.8	2055.8	2058.2	2063.4	2037.9	2048.1	2007.4	2004.9
17.5°	2134.6	2109.1	2091.4	2063.4	2027.8	2030.2	2030.2	2004.9	2012.5	1971.8	1969.2
20°	2096.4	2065.9	2045.5	2020.1	1982.0	1982.0	1982.0	1956.5	1961.6	1926.0	1920.9
22.5°	2043.0	2009.9	1989.6	1964.1	1928.5	1926.0	1923.4	1903.1	1903.1	1870.0	1862.4
25°	1971.8	1941.2	1920.9	1898.0	1862.4	1857.2	1857.2	1839.5	1836.9	1806.4	1801.2
27.5°	1890.4	1854.8	1836.9	1816.6	1783.5	1778.4	1775.9	1765.6	1760.6	1727.5	1725.0
30°	1781.0	1750.4	1735.1	1717.4	1686.8	1681.8	1679.1	1669.0	1666.5	1633.4	1633.4
32.5°	1663.9	1625.8	1615.6	1597.8	1574.9	1572.4	1574.9	1562.1	1552.0	1529.1	1524.0
35°	1524.0	1485.9	1478.1	1470.5	1452.8	1447.6	1445.1	1442.6	1429.9	1414.6	1407.0
37.5°	1361.1	1328.1	1328.1	1325.5	1312.8	1312.8	1312.8	1307.8	1295.0	1289.9	1274.6
40°	1185.6	1160.1	1162.8	1165.2	1160.1	1162.8	1165.2	1160.1	1150.0	1144.9	1132.1
42.5°	997.4	984.6	994.8	1002.4	1002.4	1010.0	1015.1	1015.1	1002.4	999.9	989.8
45°	809.0	806.5	826.9	842.1	847.2	860.0	867.6	862.5	862.5	862.5	852.2
47.5°	633.5	643.6	661.5	692.0	702.2	717.5	722.5	730.2	727.6	730.2	722.5
50°	480.9	503.8	526.6	557.1	572.5	590.2	597.9	608.1	608.1	610.6	605.5
52.5°	363.9	381.6	419.8	440.1	458.0	475.8	486.0	496.1	498.6	498.6	493.6
55°	269.6	295.1	320.6	348.5	363.9	381.6	389.2	399.5	399.5	404.5	399.5
57.5°	195.9	221.4	249.4	269.6	287.5	300.2	307.9	315.5	320.6	320.6	318.0
60°	145.0	165.4	188.2	208.6	223.9	236.6	241.8	249.4	251.9	251.9	246.8
62.5°	109.4	129.8	150.1	167.9	178.1	188.2	193.4	198.5	198.5	198.5	195.9
65°	89.0	104.4	119.6	134.9	145.0	152.6	155.2	160.2	157.8	160.2	157.8
67.5°	71.2	81.4	94.1	104.4	112.0	117.0	119.6	124.6	122.1	124.6	122.1
70°	53.4	63.6	71.2	78.9	84.0	89.0	91.6	94.1	91.6	94.1	91.6
72.5°	40.8	45.8	53.4	61.0	63.6	66.1	68.8	68.8	68.8	71.2	68.8
75°	28.0	33.1	38.1	40.8	45.8	48.4	48.4	50.9	50.9	50.9	50.9
77.5°	20.4	22.9	25.5	28.0	30.5	33.1	33.1	35.6	35.6	35.6	35.6
80°	12.8	15.2	15.2	17.8	20.4	20.4	22.9	22.9	22.9	22.9	22.9
82.5°	7.6	10.1	10.1	12.8	12.8	12.8	15.2	15.2	15.2	15.2	15.2
85°	5.1	5.1	5.1	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.1	5.1	2.5	2.5
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: P212813

CATALOG NUMBER: LE\_6B30D010 EC6B30508050 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	345°	350°	355°	360°
0°	2185.5	2185.5	2185.5	2185.5
2.5°	2152.4	2139.6	2160.0	2129.5
5°	2129.5	2116.8	2142.2	2104.0
7.5°	2101.5	2088.8	2111.8	2073.5
10°	2065.9	2053.1	2073.5	2032.9
12.5°	2035.4	2022.6	2045.5	2007.4
15°	2012.5	1999.8	2020.1	1984.5
17.5°	1976.9	1961.6	1984.5	1946.4
20°	1926.0	1915.8	1933.6	1895.4
22.5°	1867.5	1857.2	1877.6	1839.5
25°	1806.4	1793.6	1814.0	1775.9
27.5°	1727.5	1717.4	1737.8	1699.5
30°	1633.4	1623.2	1643.5	1608.0
32.5°	1526.5	1516.4	1531.6	1501.1
35°	1404.4	1396.8	1412.0	1379.0
37.5°	1272.1	1264.5	1279.8	1246.6
40°	1129.6	1122.0	1134.8	1119.5
42.5°	989.8	982.1	994.8	982.1
45°	852.2	847.2	860.0	847.2
47.5°	725.1	720.0	732.8	720.0
50°	603.0	605.5	610.6	605.5
52.5°	493.6	493.6	501.2	493.6
55°	399.5	402.0	404.5	399.5
57.5°	318.0	318.0	320.6	318.0
60°	246.8	249.4	249.4	246.8
62.5°	195.9	195.9	195.9	195.9
65°	155.2	155.2	157.8	155.2
67.5°	122.1	119.6	122.1	119.6
70°	91.6	91.6	91.6	91.6
72.5°	71.2	71.2	68.8	68.8
75°	50.9	53.4	50.9	50.9
77.5°	35.6	35.6	35.6	35.6
80°	22.9	22.9	22.9	22.9
82.5°	15.2	15.2	15.2	15.2
85°	10.1	7.6	7.6	7.6
87.5°	5.1	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - · 135°-315°

























(END OF REPORT)