

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: P212833

Luminaire Tested: **LE\_6B40D010 EC6B30509727 6LBSWL11**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212833  
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\_6B40D010 EC6B30509727 6LBSWL1  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3563.6 lumens  
Efficiency: N/A  
Efficacy: 82.9 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

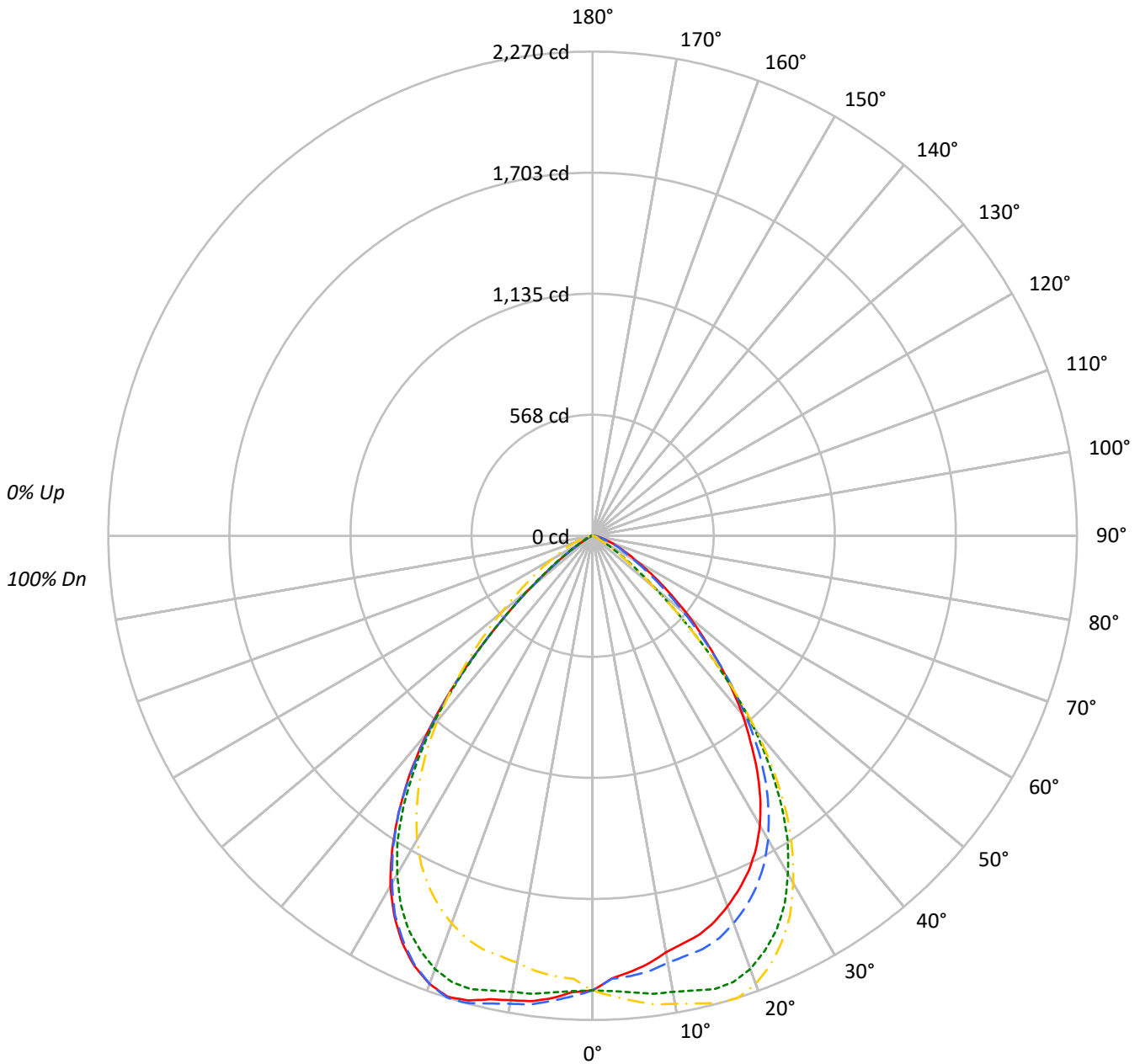
Input Watts (W): 43  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	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	70	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°	116844	116844	116844	116844
5°	112921	118248	119750	118248
10°	110358	120856	123066	120856
15°	109842	124910	128009	124910
20°	107839	126075	130421	126075
25°	104758	123370	127574	123370
30°	99262	115910	119993	115910
35°	90005	103289	106107	103289
40°	78132	84165	86297	84165
45°	64053	58099	58471	58099
50°	50361	32587	31948	32587
55°	37227	16133	14470	16133
60°	26379	7072	5164	7072
65°	19639	4514	3230	4514
70°	14329	3590	2388	3590
75°	10506	2626	1589	2626
80°	7072	2368	789	2368
85°	4717	1572	1572	1572



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.0	5.7
10°-20°	604.3	17.0
20°-30°	901.8	25.3
30°-40°	926.6	26.0
40°-50°	600.0	16.8
50°-60°	223.1	6.3
60°-70°	73.2	2.1
70°-80°	25.8	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°	1710.2	48.0
0°-40°	2636.8	74.0
0°-60°	3459.9	97.1
0°-90°	3563.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3563.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2131	2131	2131	2131	2131	
5°	2052	2149	2176	2149	2052	194
15°	1935	2201	2256	2201	1935	544
25°	1732	2040	2109	2040	1732	794
35°	1345	1543	1586	1543	1345	835
45°	826	749	754	749	826	639
55°	390	169	151	169	390	355
65°	151	35	25	35	151	154
75°	50	12	8	12	50	55
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°	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4
2.5°	2076.9	2106.6	2086.8	2099.1	2079.2	2079.2	2119.0	2096.6	2114.0	2096.6	2079.2
5°	2052.0	2089.2	2064.4	2076.9	2059.5	2061.9	2099.1	2081.8	2099.1	2086.8	2071.9
7.5°	2022.2	2059.5	2037.1	2049.5	2032.1	2037.1	2076.9	2059.5	2079.2	2066.9	2057.0
10°	1982.5	2022.2	2002.4	2014.8	1999.9	2002.4	2042.1	2029.6	2047.0	2039.6	2032.1
12.5°	1957.8	1994.9	1972.6	1985.0	1975.1	1980.0	2017.2	2007.4	2029.6	2022.2	2017.2
15°	1935.4	1970.1	1950.2	1962.6	1955.2	1957.8	1997.4	1987.5	2012.2	2007.4	2004.9
17.5°	1898.1	1935.4	1913.0	1927.9	1920.5	1923.0	1962.6	1955.2	1980.0	1980.0	1977.6
20°	1848.5	1885.8	1868.4	1878.2	1873.4	1878.2	1913.0	1908.1	1932.9	1932.9	1932.9
22.5°	1794.0	1831.1	1811.4	1821.2	1816.2	1823.8	1856.0	1856.0	1875.9	1878.2	1880.8
25°	1731.9	1769.1	1749.2	1761.8	1756.8	1761.8	1791.5	1794.0	1811.4	1811.4	1816.2
27.5°	1657.5	1694.8	1674.9	1684.8	1682.2	1684.8	1717.0	1722.0	1731.9	1734.4	1739.4
30°	1568.1	1602.9	1583.0	1593.0	1593.0	1593.0	1625.2	1627.8	1637.6	1640.1	1645.1
32.5°	1464.0	1493.8	1478.9	1488.8	1486.2	1491.2	1513.6	1523.5	1535.9	1533.4	1535.9
35°	1344.9	1377.1	1362.2	1369.6	1372.1	1379.6	1394.5	1406.9	1409.4	1411.9	1416.8
37.5°	1215.9	1248.1	1233.1	1240.6	1243.1	1258.0	1263.0	1275.4	1280.4	1280.4	1280.4
40°	1091.8	1106.6	1094.2	1101.6	1104.1	1116.6	1121.5	1131.5	1136.4	1133.9	1131.5
42.5°	957.8	970.1	957.8	965.2	965.2	975.1	977.6	990.0	990.0	985.0	977.6
45°	826.2	838.6	826.2	831.2	831.2	841.1	841.1	841.1	846.1	838.6	826.2
47.5°	702.2	714.6	702.2	707.1	704.6	712.1	709.6	712.1	704.6	699.8	684.9
50°	590.5	595.5	590.5	588.0	590.5	595.5	593.0	593.0	583.1	575.6	558.2
52.5°	481.4	488.8	481.4	481.4	481.4	486.4	486.4	483.9	473.9	464.0	446.6
55°	389.5	394.5	392.0	389.5	389.5	394.5	389.5	389.5	379.6	372.2	354.9
57.5°	310.1	312.6	310.1	310.1	310.1	312.6	312.6	307.6	300.2	292.8	280.4
60°	240.6	243.1	243.1	240.6	240.6	245.6	245.6	243.1	235.8	230.8	218.4
62.5°	191.0	191.0	191.0	191.0	191.0	193.5	193.5	193.5	188.6	183.6	173.8
65°	151.4	153.9	151.4	151.4	153.9	156.4	153.9	156.4	151.4	148.9	141.4
67.5°	116.6	119.1	116.6	119.1	119.1	121.6	119.1	121.6	116.6	114.1	109.1
70°	89.4	89.4	89.4	89.4	89.4	91.8	89.4	91.8	89.4	86.9	81.9
72.5°	67.0	67.0	69.5	69.5	67.0	69.5	67.0	67.0	67.0	64.5	62.0
75°	49.6	49.6	52.1	49.6	49.6	49.6	49.6	49.6	47.1	47.1	44.6
77.5°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	32.2	32.2	29.8
80°	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	19.9	19.9
82.5°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	12.4	12.4
85°	7.5	7.5	7.5	9.9	7.5	7.5	7.5	7.5	7.5	7.5	7.5
87.5°	2.5	2.5	2.5	5.0	2.5	2.5	5.0	5.0	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°	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4
2.5°	2099.1	2106.6	2106.6	2099.1	2116.5	2101.6	2131.4	2104.1	2111.5	2136.4	2133.9
5°	2091.8	2101.6	2104.1	2099.1	2121.5	2109.1	2138.9	2111.5	2124.0	2148.8	2148.8
7.5°	2081.8	2094.1	2099.1	2104.1	2124.0	2111.5	2146.2	2119.0	2136.4	2166.1	2163.6
10°	2059.5	2076.9	2086.8	2094.1	2114.0	2106.6	2143.8	2121.5	2136.4	2171.1	2168.6
12.5°	2047.0	2066.9	2081.8	2094.1	2116.5	2111.5	2148.8	2128.9	2148.8	2183.5	2183.5
15°	2037.1	2059.5	2076.9	2099.1	2121.5	2116.5	2156.2	2138.9	2158.8	2200.9	2198.4
17.5°	2012.2	2039.6	2057.0	2081.8	2104.1	2101.6	2143.8	2131.4	2153.8	2193.4	2195.9
20°	1970.1	1994.9	2014.8	2044.5	2069.4	2064.4	2109.1	2096.6	2119.0	2161.1	2163.6
22.5°	1915.5	1940.4	1960.2	1992.5	2014.8	2012.2	2057.0	2044.5	2066.9	2106.6	2109.1
25°	1851.0	1873.4	1893.2	1923.0	1947.8	1947.8	1987.5	1975.1	1999.9	2039.6	2039.6
27.5°	1771.6	1791.5	1808.9	1843.6	1863.4	1863.4	1900.6	1888.2	1913.0	1947.8	1945.2
30°	1674.9	1692.2	1707.1	1736.9	1754.2	1756.8	1789.0	1776.6	1801.4	1831.1	1831.1
32.5°	1558.2	1575.6	1585.5	1622.8	1635.1	1632.6	1657.5	1645.1	1669.9	1702.1	1694.8
35°	1434.1	1441.6	1449.0	1486.2	1491.2	1481.2	1506.1	1493.8	1511.1	1543.4	1538.4
37.5°	1292.8	1295.2	1295.2	1327.5	1330.0	1322.5	1337.4	1322.5	1334.9	1364.8	1362.2
40°	1136.4	1133.9	1131.5	1156.2	1153.8	1138.9	1148.9	1136.4	1153.8	1176.1	1163.8
42.5°	977.6	970.1	960.2	972.6	962.8	950.4	955.2	935.4	947.9	965.2	950.4
45°	821.2	806.4	786.5	789.0	776.6	761.8	754.2	734.5	732.0	749.4	736.9
47.5°	674.9	645.1	627.8	617.9	598.0	585.6	570.8	548.4	538.4	548.4	536.0
50°	543.4	513.6	491.2	469.0	449.1	434.2	409.4	394.5	379.6	382.1	372.2
52.5°	429.2	409.4	372.2	354.9	335.0	317.6	295.2	277.9	260.5	260.5	250.6
55°	339.9	312.6	287.9	263.0	243.1	228.2	206.0	188.6	171.2	168.8	158.8
57.5°	263.0	243.1	215.9	191.0	178.6	163.8	141.4	121.6	111.6	104.2	96.8
60°	203.5	183.6	161.2	141.4	126.5	116.6	94.2	79.4	69.5	64.5	57.1
62.5°	163.8	146.4	126.5	106.8	96.8	86.9	69.5	57.1	47.1	42.1	37.2
65°	131.5	116.6	101.8	86.9	79.4	69.5	57.1	47.1	39.8	34.8	29.8
67.5°	101.8	91.8	79.4	69.5	62.0	54.6	44.6	37.2	32.2	27.2	24.9
70°	76.9	69.5	62.0	52.1	47.1	42.1	34.8	27.2	24.9	22.4	19.9
72.5°	59.5	52.1	44.6	39.8	34.8	32.2	27.2	22.4	19.9	17.4	14.9
75°	39.8	37.2	32.2	27.2	24.9	22.4	19.9	17.4	14.9	12.4	12.4
77.5°	27.2	24.9	22.4	19.9	17.4	17.4	14.9	12.4	9.9	9.9	7.5
80°	17.4	14.9	14.9	12.4	12.4	12.4	9.9	7.5	7.5	7.5	5.0
82.5°	12.4	9.9	9.9	7.5	7.5	7.5	7.5	5.0	5.0	5.0	2.5
85°	7.5	5.0	5.0	5.0	5.0	5.0	5.0	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°	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4
2.5°	2114.0	2136.4	2136.4	2156.2	2158.8	2153.8	2131.4	2131.4	2161.1	2178.5	2148.8
5°	2133.9	2156.2	2156.2	2176.1	2186.0	2178.5	2156.2	2158.8	2188.5	2208.4	2178.5
7.5°	2151.2	2173.6	2178.5	2200.9	2208.4	2200.9	2178.5	2183.5	2215.8	2233.1	2203.4
10°	2158.8	2181.0	2183.5	2208.4	2218.2	2208.4	2191.0	2193.4	2228.1	2240.6	2213.2
12.5°	2176.1	2198.4	2198.4	2225.8	2235.6	2228.1	2205.9	2210.8	2245.5	2258.0	2230.6
15°	2193.4	2215.8	2215.8	2245.5	2258.0	2248.0	2230.6	2233.1	2267.9	2280.2	2258.0
17.5°	2193.4	2213.2	2213.2	2245.5	2258.0	2250.5	2230.6	2233.1	2270.4	2280.2	2258.0
20°	2161.1	2183.5	2178.5	2210.8	2223.2	2215.8	2198.4	2198.4	2235.6	2245.5	2223.2
22.5°	2109.1	2128.9	2124.0	2153.8	2168.6	2158.8	2143.8	2141.4	2178.5	2188.5	2166.1
25°	2037.1	2057.0	2052.0	2081.8	2096.6	2084.2	2066.9	2069.4	2099.1	2114.0	2094.1
27.5°	1952.8	1965.1	1957.8	1987.5	2002.4	1990.0	1972.6	1975.1	2004.9	2014.8	1999.9
30°	1838.6	1848.5	1841.1	1865.9	1875.9	1868.4	1853.5	1853.5	1880.8	1893.2	1878.2
32.5°	1702.1	1709.6	1702.1	1722.0	1741.9	1727.0	1712.1	1712.1	1741.9	1751.8	1734.4
35°	1543.4	1550.8	1545.9	1565.6	1580.5	1560.8	1548.2	1543.4	1583.0	1578.1	1568.1
37.5°	1367.1	1372.1	1357.2	1392.0	1399.4	1377.1	1367.1	1362.2	1397.0	1394.5	1384.5
40°	1168.6	1173.6	1163.8	1188.5	1191.0	1173.6	1166.2	1158.8	1193.5	1191.0	1183.5
42.5°	957.8	960.2	947.9	967.8	972.6	955.2	952.8	942.9	975.1	970.1	967.8
45°	739.4	739.4	729.5	744.4	749.4	734.5	729.5	727.0	749.4	749.4	744.4
47.5°	536.0	528.5	516.1	538.4	540.9	531.0	528.5	521.1	543.4	543.4	538.4
50°	367.2	364.8	362.2	367.2	369.8	357.2	364.8	357.2	369.8	369.8	369.8
52.5°	245.6	243.1	238.2	243.1	243.1	235.8	235.8	233.2	243.1	243.1	238.2
55°	153.9	151.4	148.9	151.4	151.4	143.9	148.9	143.9	148.9	148.9	146.4
57.5°	94.2	89.4	89.4	86.9	86.9	81.9	84.4	84.4	84.4	84.4	84.4
60°	54.6	52.1	49.6	49.6	49.6	47.1	47.1	47.1	47.1	47.1	47.1
62.5°	34.8	34.8	32.2	32.2	32.2	32.2	32.2	29.8	32.2	32.2	32.2
65°	29.8	27.2	27.2	27.2	27.2	24.9	24.9	24.9	24.9	24.9	24.9
67.5°	24.9	22.4	22.4	22.4	22.4	19.9	19.9	19.9	19.9	19.9	19.9
70°	19.9	17.4	17.4	17.4	17.4	17.4	14.9	17.4	17.4	14.9	14.9
72.5°	14.9	14.9	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
75°	9.9	9.9	9.9	9.9	9.9	7.5	7.5	7.5	7.5	7.5	7.5
77.5°	7.5	7.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
80°	5.0	5.0	5.0	5.0	5.0	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: P212833

CATALOG NUMBER: LE\_6B40D010 EC6B30509727 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4
2.5°	2183.5	2158.8	2146.2	2171.1	2181.0	2168.6	2158.8	2141.4	2158.8	2168.6	2181.0
5°	2213.2	2191.0	2181.0	2198.4	2213.2	2200.9	2193.4	2176.1	2193.4	2200.9	2213.2
7.5°	2240.6	2218.2	2205.9	2223.2	2240.6	2223.2	2215.8	2200.9	2215.8	2223.2	2240.6
10°	2250.5	2225.8	2215.8	2230.6	2248.0	2230.6	2220.8	2210.8	2220.8	2230.6	2248.0
12.5°	2267.9	2243.0	2230.6	2243.0	2260.4	2243.0	2233.1	2225.8	2233.1	2243.0	2260.4
15°	2292.6	2270.4	2255.5	2267.9	2290.2	2270.4	2258.0	2255.5	2258.0	2270.4	2290.2
17.5°	2292.6	2275.4	2260.4	2270.4	2292.6	2277.8	2260.4	2265.4	2260.4	2277.8	2292.6
20°	2260.4	2243.0	2230.6	2230.6	2262.9	2243.0	2228.1	2235.6	2228.1	2243.0	2262.9
22.5°	2203.4	2188.5	2176.1	2173.6	2205.9	2188.5	2168.6	2183.5	2168.6	2188.5	2205.9
25°	2128.9	2114.0	2104.1	2099.1	2131.4	2111.5	2094.1	2109.1	2094.1	2111.5	2131.4
27.5°	2032.1	2019.8	2009.9	2002.4	2032.1	2014.8	1997.4	2012.2	1997.4	2014.8	2032.1
30°	1908.1	1900.6	1890.8	1880.8	1910.6	1893.2	1875.9	1895.6	1875.9	1893.2	1910.6
32.5°	1764.1	1759.2	1746.8	1736.9	1766.6	1746.8	1734.4	1749.2	1734.4	1746.8	1766.6
35°	1597.9	1590.5	1583.0	1565.6	1597.9	1580.5	1580.5	1585.5	1580.5	1580.5	1597.9
37.5°	1411.9	1406.9	1397.0	1382.0	1409.4	1397.0	1392.0	1406.9	1392.0	1397.0	1409.4
40°	1203.4	1200.9	1193.5	1176.1	1205.9	1193.5	1186.0	1205.9	1186.0	1193.5	1205.9
42.5°	985.0	980.1	972.6	970.1	985.0	975.1	982.6	982.6	982.6	975.1	985.0
45°	759.2	754.2	749.4	739.4	756.8	751.9	749.4	754.2	749.4	751.9	756.8
47.5°	550.9	545.9	540.9	533.5	550.9	543.4	543.4	548.4	543.4	543.4	550.9
50°	369.8	372.2	369.8	364.8	369.8	367.2	369.8	374.6	369.8	367.2	369.8
52.5°	245.6	245.6	240.6	238.2	243.1	240.6	248.1	243.1	248.1	240.6	243.1
55°	148.9	151.4	148.9	146.4	148.9	146.4	153.9	151.4	153.9	146.4	148.9
57.5°	84.4	84.4	86.9	84.4	89.4	86.9	86.9	86.9	86.9	86.9	89.4
60°	47.1	47.1	47.1	47.1	47.1	47.1	49.6	47.1	49.6	47.1	47.1
62.5°	32.2	32.2	32.2	29.8	32.2	29.8	32.2	32.2	32.2	29.8	32.2
65°	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
67.5°	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
70°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
72.5°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
75°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
77.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
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: P212833

CATALOG NUMBER: LE\_6B40D010 EC6B30509727 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4
2.5°	2171.1	2146.2	2158.8	2183.5	2148.8	2178.5	2161.1	2131.4	2131.4	2153.8	2158.8
5°	2198.4	2181.0	2191.0	2213.2	2178.5	2208.4	2188.5	2158.8	2156.2	2178.5	2186.0
7.5°	2223.2	2205.9	2218.2	2240.6	2203.4	2233.1	2215.8	2183.5	2178.5	2200.9	2208.4
10°	2230.6	2215.8	2225.8	2250.5	2213.2	2240.6	2228.1	2193.4	2191.0	2208.4	2218.2
12.5°	2243.0	2230.6	2243.0	2267.9	2230.6	2258.0	2245.5	2210.8	2205.9	2228.1	2235.6
15°	2267.9	2255.5	2270.4	2292.6	2258.0	2280.2	2267.9	2233.1	2230.6	2248.0	2258.0
17.5°	2270.4	2260.4	2275.4	2292.6	2258.0	2280.2	2270.4	2233.1	2230.6	2250.5	2258.0
20°	2230.6	2230.6	2243.0	2260.4	2223.2	2245.5	2235.6	2198.4	2198.4	2215.8	2223.2
22.5°	2173.6	2176.1	2188.5	2203.4	2166.1	2188.5	2178.5	2141.4	2143.8	2158.8	2168.6
25°	2099.1	2104.1	2114.0	2128.9	2094.1	2114.0	2099.1	2069.4	2066.9	2084.2	2096.6
27.5°	2002.4	2009.9	2019.8	2032.1	1999.9	2014.8	2004.9	1975.1	1972.6	1990.0	2002.4
30°	1880.8	1890.8	1900.6	1908.1	1878.2	1893.2	1880.8	1853.5	1853.5	1868.4	1875.9
32.5°	1736.9	1746.8	1759.2	1764.1	1734.4	1751.8	1741.9	1712.1	1712.1	1727.0	1741.9
35°	1565.6	1583.0	1590.5	1597.9	1568.1	1578.1	1583.0	1543.4	1548.2	1560.8	1580.5
37.5°	1382.0	1397.0	1406.9	1411.9	1384.5	1394.5	1397.0	1362.2	1367.1	1377.1	1399.4
40°	1176.1	1193.5	1200.9	1203.4	1183.5	1191.0	1193.5	1158.8	1166.2	1173.6	1191.0
42.5°	970.1	972.6	980.1	985.0	967.8	970.1	975.1	942.9	952.8	955.2	972.6
45°	739.4	749.4	754.2	759.2	744.4	749.4	749.4	727.0	729.5	734.5	749.4
47.5°	533.5	540.9	545.9	550.9	538.4	543.4	543.4	521.1	528.5	531.0	540.9
50°	364.8	369.8	372.2	369.8	369.8	369.8	369.8	357.2	364.8	357.2	369.8
52.5°	238.2	240.6	245.6	245.6	238.2	243.1	243.1	233.2	235.8	235.8	243.1
55°	146.4	148.9	151.4	148.9	146.4	148.9	148.9	143.9	148.9	143.9	151.4
57.5°	84.4	86.9	84.4	84.4	84.4	84.4	84.4	84.4	84.4	81.9	86.9
60°	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	49.6
62.5°	29.8	32.2	32.2	32.2	32.2	32.2	32.2	29.8	32.2	32.2	32.2
65°	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	27.2
67.5°	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	22.4
70°	14.9	14.9	14.9	14.9	14.9	14.9	17.4	17.4	14.9	17.4	17.4
72.5°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
75°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	9.9
77.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.0
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: P212833

CATALOG NUMBER: LE\_6B40D010 EC6B30509727 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4
2.5°	2156.2	2136.4	2136.4	2114.0	2133.9	2136.4	2111.5	2104.1	2131.4	2101.6	2116.5
5°	2176.1	2156.2	2156.2	2133.9	2148.8	2148.8	2124.0	2111.5	2138.9	2109.1	2121.5
7.5°	2200.9	2178.5	2173.6	2151.2	2163.6	2166.1	2136.4	2119.0	2146.2	2111.5	2124.0
10°	2208.4	2183.5	2181.0	2158.8	2168.6	2171.1	2136.4	2121.5	2143.8	2106.6	2114.0
12.5°	2225.8	2198.4	2198.4	2176.1	2183.5	2183.5	2148.8	2128.9	2148.8	2111.5	2116.5
15°	2245.5	2215.8	2215.8	2193.4	2198.4	2200.9	2158.8	2138.9	2156.2	2116.5	2121.5
17.5°	2245.5	2213.2	2213.2	2193.4	2195.9	2193.4	2153.8	2131.4	2143.8	2101.6	2104.1
20°	2210.8	2178.5	2183.5	2161.1	2163.6	2161.1	2119.0	2096.6	2109.1	2064.4	2069.4
22.5°	2153.8	2124.0	2128.9	2109.1	2109.1	2106.6	2066.9	2044.5	2057.0	2012.2	2014.8
25°	2081.8	2052.0	2057.0	2037.1	2039.6	2039.6	1999.9	1975.1	1987.5	1947.8	1947.8
27.5°	1987.5	1957.8	1965.1	1952.8	1945.2	1947.8	1913.0	1888.2	1900.6	1863.4	1863.4
30°	1865.9	1841.1	1848.5	1838.6	1831.1	1831.1	1801.4	1776.6	1789.0	1756.8	1754.2
32.5°	1722.0	1702.1	1709.6	1702.1	1694.8	1702.1	1669.9	1645.1	1657.5	1632.6	1635.1
35°	1565.6	1545.9	1550.8	1543.4	1538.4	1543.4	1511.1	1493.8	1506.1	1481.2	1491.2
37.5°	1392.0	1357.2	1372.1	1367.1	1362.2	1364.8	1334.9	1322.5	1337.4	1322.5	1330.0
40°	1188.5	1163.8	1173.6	1168.6	1163.8	1176.1	1153.8	1136.4	1148.9	1138.9	1153.8
42.5°	967.8	947.9	960.2	957.8	950.4	965.2	947.9	935.4	955.2	950.4	962.8
45°	744.4	729.5	739.4	739.4	736.9	749.4	732.0	734.5	754.2	761.8	776.6
47.5°	538.4	516.1	528.5	536.0	536.0	548.4	538.4	548.4	570.8	585.6	598.0
50°	367.2	362.2	364.8	367.2	372.2	382.1	379.6	394.5	409.4	434.2	449.1
52.5°	243.1	238.2	243.1	245.6	250.6	260.5	260.5	277.9	295.2	317.6	335.0
55°	151.4	148.9	151.4	153.9	158.8	168.8	171.2	188.6	206.0	228.2	243.1
57.5°	86.9	89.4	89.4	94.2	96.8	104.2	111.6	121.6	141.4	163.8	178.6
60°	49.6	49.6	52.1	54.6	57.1	64.5	69.5	79.4	94.2	116.6	126.5
62.5°	32.2	32.2	34.8	34.8	37.2	42.1	47.1	57.1	69.5	86.9	96.8
65°	27.2	27.2	27.2	29.8	29.8	34.8	39.8	47.1	57.1	69.5	79.4
67.5°	22.4	22.4	22.4	24.9	24.9	27.2	32.2	37.2	44.6	54.6	62.0
70°	17.4	17.4	17.4	19.9	19.9	22.4	24.9	27.2	34.8	42.1	47.1
72.5°	12.4	12.4	14.9	14.9	14.9	17.4	19.9	22.4	27.2	32.2	34.8
75°	9.9	9.9	9.9	9.9	12.4	12.4	14.9	17.4	19.9	22.4	24.9
77.5°	5.0	5.0	7.5	7.5	7.5	9.9	9.9	12.4	14.9	17.4	17.4
80°	5.0	5.0	5.0	5.0	5.0	7.5	7.5	7.5	9.9	12.4	12.4
82.5°	2.5	2.5	2.5	2.5	2.5	5.0	5.0	5.0	7.5	7.5	7.5
85°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.0	5.0	5.0
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: P212833

CATALOG NUMBER: LE\_6B40D010 EC6B30509727 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4
2.5°	2099.1	2106.6	2106.6	2099.1	2079.2	2096.6	2114.0	2096.6	2119.0	2079.2	2079.2
5°	2099.1	2104.1	2101.6	2091.8	2071.9	2086.8	2099.1	2081.8	2099.1	2061.9	2059.5
7.5°	2104.1	2099.1	2094.1	2081.8	2057.0	2066.9	2079.2	2059.5	2076.9	2037.1	2032.1
10°	2094.1	2086.8	2076.9	2059.5	2032.1	2039.6	2047.0	2029.6	2042.1	2002.4	1999.9
12.5°	2094.1	2081.8	2066.9	2047.0	2017.2	2022.2	2029.6	2007.4	2017.2	1980.0	1975.1
15°	2099.1	2076.9	2059.5	2037.1	2004.9	2007.4	2012.2	1987.5	1997.4	1957.8	1955.2
17.5°	2081.8	2057.0	2039.6	2012.2	1977.6	1980.0	1980.0	1955.2	1962.6	1923.0	1920.5
20°	2044.5	2014.8	1994.9	1970.1	1932.9	1932.9	1932.9	1908.1	1913.0	1878.2	1873.4
22.5°	1992.5	1960.2	1940.4	1915.5	1880.8	1878.2	1875.9	1856.0	1856.0	1823.8	1816.2
25°	1923.0	1893.2	1873.4	1851.0	1816.2	1811.4	1811.4	1794.0	1791.5	1761.8	1756.8
27.5°	1843.6	1808.9	1791.5	1771.6	1739.4	1734.4	1731.9	1722.0	1717.0	1684.8	1682.2
30°	1736.9	1707.1	1692.2	1674.9	1645.1	1640.1	1637.6	1627.8	1625.2	1593.0	1593.0
32.5°	1622.8	1585.5	1575.6	1558.2	1535.9	1533.4	1535.9	1523.5	1513.6	1491.2	1486.2
35°	1486.2	1449.0	1441.6	1434.1	1416.8	1411.9	1409.4	1406.9	1394.5	1379.6	1372.1
37.5°	1327.5	1295.2	1295.2	1292.8	1280.4	1280.4	1280.4	1275.4	1263.0	1258.0	1243.1
40°	1156.2	1131.5	1133.9	1136.4	1131.5	1133.9	1136.4	1131.5	1121.5	1116.6	1104.1
42.5°	972.6	960.2	970.1	977.6	977.6	985.0	990.0	990.0	977.6	975.1	965.2
45°	789.0	786.5	806.4	821.2	826.2	838.6	846.1	841.1	841.1	841.1	831.2
47.5°	617.9	627.8	645.1	674.9	684.9	699.8	704.6	712.1	709.6	712.1	704.6
50°	469.0	491.2	513.6	543.4	558.2	575.6	583.1	593.0	593.0	595.5	590.5
52.5°	354.9	372.2	409.4	429.2	446.6	464.0	473.9	483.9	486.4	486.4	481.4
55°	263.0	287.9	312.6	339.9	354.9	372.2	379.6	389.5	389.5	394.5	389.5
57.5°	191.0	215.9	243.1	263.0	280.4	292.8	300.2	307.6	312.6	312.6	310.1
60°	141.4	161.2	183.6	203.5	218.4	230.8	235.8	243.1	245.6	245.6	240.6
62.5°	106.8	126.5	146.4	163.8	173.8	183.6	188.6	193.5	193.5	193.5	191.0
65°	86.9	101.8	116.6	131.5	141.4	148.9	151.4	156.4	153.9	156.4	153.9
67.5°	69.5	79.4	91.8	101.8	109.1	114.1	116.6	121.6	119.1	121.6	119.1
70°	52.1	62.0	69.5	76.9	81.9	86.9	89.4	91.8	89.4	91.8	89.4
72.5°	39.8	44.6	52.1	59.5	62.0	64.5	67.0	67.0	67.0	69.5	67.0
75°	27.2	32.2	37.2	39.8	44.6	47.1	47.1	49.6	49.6	49.6	49.6
77.5°	19.9	22.4	24.9	27.2	29.8	32.2	32.2	34.8	34.8	34.8	34.8
80°	12.4	14.9	14.9	17.4	19.9	19.9	22.4	22.4	22.4	22.4	22.4
82.5°	7.5	9.9	9.9	12.4	12.4	12.4	14.9	14.9	14.9	14.9	14.9
85°	5.0	5.0	5.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.0	5.0	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: P212833

CATALOG NUMBER: LE\_6B40D010 EC6B30509727 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	345°	350°	355°	360°
0°	2131.4	2131.4	2131.4	2131.4
2.5°	2099.1	2086.8	2106.6	2076.9
5°	2076.9	2064.4	2089.2	2052.0
7.5°	2049.5	2037.1	2059.5	2022.2
10°	2014.8	2002.4	2022.2	1982.5
12.5°	1985.0	1972.6	1994.9	1957.8
15°	1962.6	1950.2	1970.1	1935.4
17.5°	1927.9	1913.0	1935.4	1898.1
20°	1878.2	1868.4	1885.8	1848.5
22.5°	1821.2	1811.4	1831.1	1794.0
25°	1761.8	1749.2	1769.1	1731.9
27.5°	1684.8	1674.9	1694.8	1657.5
30°	1593.0	1583.0	1602.9	1568.1
32.5°	1488.8	1478.9	1493.8	1464.0
35°	1369.6	1362.2	1377.1	1344.9
37.5°	1240.6	1233.1	1248.1	1215.9
40°	1101.6	1094.2	1106.6	1091.8
42.5°	965.2	957.8	970.1	957.8
45°	831.2	826.2	838.6	826.2
47.5°	707.1	702.2	714.6	702.2
50°	588.0	590.5	595.5	590.5
52.5°	481.4	481.4	488.8	481.4
55°	389.5	392.0	394.5	389.5
57.5°	310.1	310.1	312.6	310.1
60°	240.6	243.1	243.1	240.6
62.5°	191.0	191.0	191.0	191.0
65°	151.4	151.4	153.9	151.4
67.5°	119.1	116.6	119.1	116.6
70°	89.4	89.4	89.4	89.4
72.5°	69.5	69.5	67.0	67.0
75°	49.6	52.1	49.6	49.6
77.5°	34.8	34.8	34.8	34.8
80°	22.4	22.4	22.4	22.4
82.5°	14.9	14.9	14.9	14.9
85°	9.9	7.5	7.5	7.5
87.5°	5.0	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)