

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: P252179

Luminaire Tested: **LE\_6B30D010 EC6B30509730 6LBSW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252179  
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 EC6B30509730 6LBSW1LI  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3510.0 lumens  
Efficiency: N/A  
Efficacy: 125.4 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

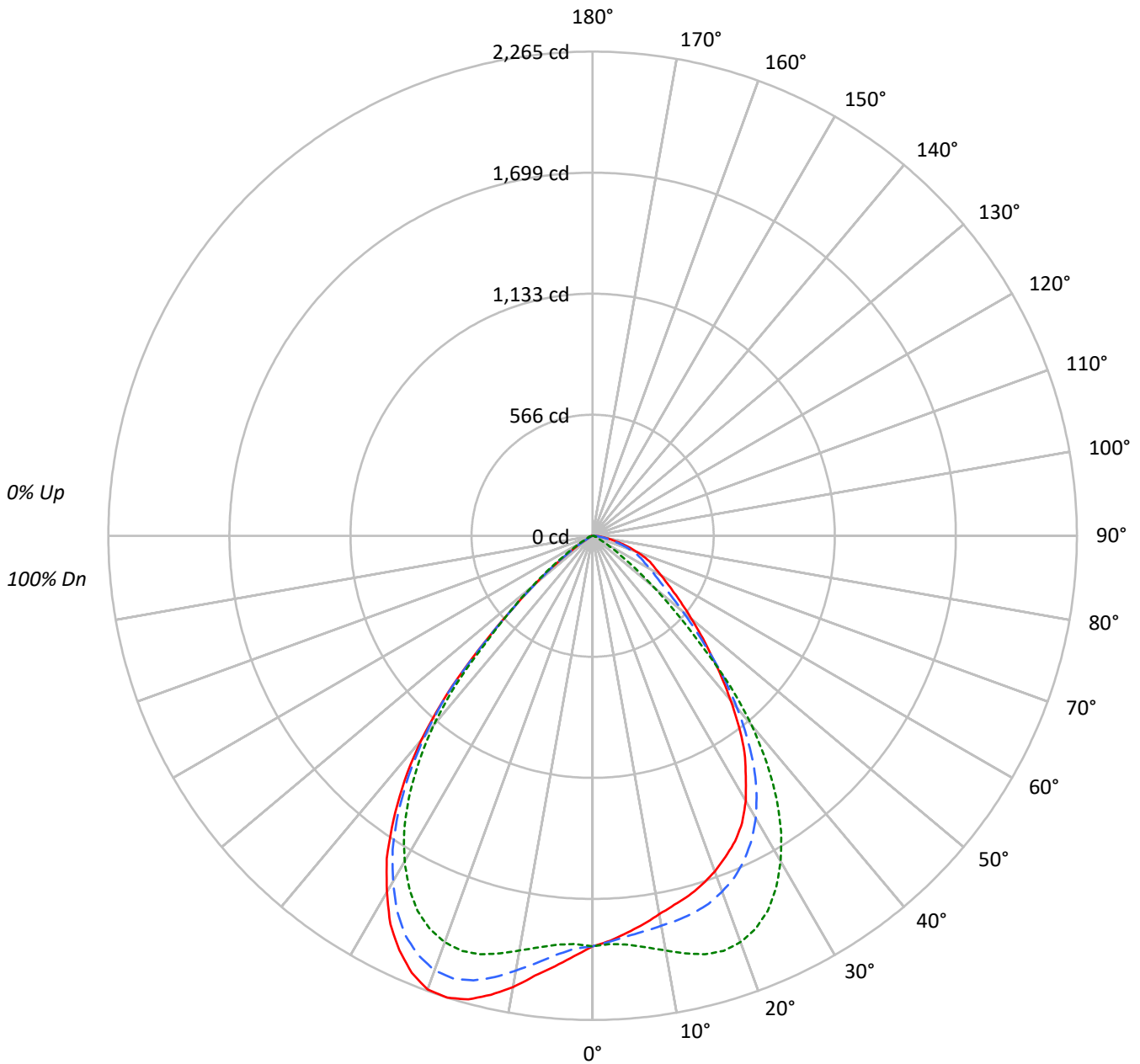
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37			

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

	0°	90°	180°
0°	125275	125275	125275
5°	122034	125754	132368
10°	119059	130500	142047
15°	117665	136894	151639
20°	115986	140452	156768
25°	113520	139421	153962
30°	107870	132496	144934
35°	98687	119458	129390
40°	85370	98656	106159
45°	71985	64696	69438
50°	61111	37452	35219
55°	53027	17960	13581
60°	47900	8377	3366
65°	46482	4816	1142
70°	41679	3853	1049
75°	34256	2773	479
80°	25510	1353	0
85°	22007	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.5	5.3
10°-20°	565.3	16.1
20°-30°	863.7	24.6
30°-40°	903.3	25.7
40°-50°	586.0	16.7
50°-60°	232.7	6.6
60°-70°	110.4	3.1
70°-80°	52.5	1.5
80°-90°	10.7	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°	1614.4	46.0
0°-40°	2517.8	71.7
0°-60°	3336.4	95.1
0°-90°	3510.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3510.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1920	1920	1920	1920	1920	
5°	1863	1880	1920	1968	2021	176
15°	1742	1827	2027	2153	2245	491
25°	1577	1676	1937	2067	2139	722
35°	1239	1314	1500	1588	1625	766
45°	780	773	701	744	753	607
55°	466	396	158	123	119	422
65°	301	250	31	7	7	294
75°	136	110	11	4	2	147
85°	29	18	0	0	0	34
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°	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2
2.5°	1896.4	1900.0	1879.9	1874.4	1889.0	1894.5	1896.4	1890.9	1892.8	1900.0	1900.0
5°	1863.4	1867.0	1848.6	1843.1	1857.9	1861.5	1867.0	1865.1	1870.6	1881.8	1879.9
7.5°	1832.1	1837.6	1817.5	1810.1	1828.5	1837.6	1841.2	1841.2	1848.6	1863.4	1865.1
10°	1797.2	1804.6	1786.2	1782.5	1802.8	1811.9	1813.8	1817.5	1828.5	1848.6	1852.4
12.5°	1767.9	1775.2	1762.4	1756.9	1778.9	1788.1	1791.8	1799.1	1811.9	1837.6	1841.2
15°	1742.1	1747.6	1733.0	1729.4	1751.4	1762.4	1764.2	1775.2	1791.8	1821.1	1826.6
17.5°	1709.1	1712.8	1701.8	1698.1	1720.1	1731.1	1733.0	1745.9	1766.0	1795.4	1804.6
20°	1670.6	1674.2	1663.2	1659.6	1681.6	1694.5	1696.2	1707.2	1731.1	1762.4	1771.5
22.5°	1624.6	1632.0	1619.1	1615.5	1637.5	1648.5	1654.0	1663.2	1687.1	1718.2	1731.1
25°	1577.0	1577.0	1567.8	1566.0	1586.1	1599.0	1597.1	1610.0	1633.9	1665.1	1676.1
27.5°	1514.5	1512.8	1503.5	1501.6	1523.8	1534.8	1531.0	1543.9	1566.0	1597.1	1608.1
30°	1431.9	1435.6	1422.8	1419.1	1437.4	1455.8	1454.0	1466.8	1488.9	1518.2	1525.5
32.5°	1332.8	1336.5	1334.6	1329.1	1345.6	1354.9	1360.4	1369.5	1387.9	1419.1	1426.4
35°	1239.1	1233.6	1226.4	1226.4	1242.9	1257.5	1252.0	1263.0	1281.4	1312.6	1314.4
37.5°	1123.5	1121.6	1118.0	1114.4	1132.8	1136.4	1138.2	1145.5	1162.0	1187.8	1184.1
40°	1002.4	1004.1	1002.4	995.0	1006.0	1020.8	1018.9	1022.5	1037.2	1055.6	1050.1
42.5°	888.5	888.5	888.5	881.1	894.0	901.4	905.0	903.2	906.9	923.4	916.1
45°	780.2	782.0	780.2	778.4	780.2	783.9	780.2	778.4	778.4	783.9	772.9
47.5°	686.6	686.6	681.1	675.6	681.1	682.9	677.4	671.9	670.1	668.2	649.9
50°	602.1	600.2	598.5	589.2	594.8	596.6	589.2	585.6	578.2	569.1	547.1
52.5°	528.8	526.9	525.0	515.9	519.5	521.4	514.0	506.6	497.5	490.1	462.6
55°	466.2	464.5	464.5	459.0	455.2	459.0	451.6	446.1	433.2	424.1	396.5
57.5°	413.0	413.0	409.4	403.9	405.8	405.8	398.4	391.0	380.0	369.0	347.0
60°	367.1	367.1	367.1	361.6	361.6	361.6	358.0	350.6	341.5	330.5	308.4
62.5°	330.5	330.5	328.6	323.1	324.9	324.9	321.2	313.9	304.8	297.4	275.4
65°	301.1	301.1	301.1	295.6	295.6	297.4	293.8	286.4	279.0	269.9	249.6
67.5°	264.4	262.5	262.5	258.9	260.6	262.5	258.9	253.4	244.1	238.6	220.2
70°	218.5	220.2	222.1	216.6	218.5	218.5	216.6	211.1	205.6	200.1	183.6
72.5°	178.1	178.1	176.2	174.4	174.4	176.2	172.6	167.0	163.4	159.8	146.9
75°	135.9	134.0	135.9	132.1	132.1	132.1	128.5	126.6	124.9	119.4	110.1
77.5°	99.1	97.2	97.2	93.6	95.5	95.5	93.6	90.0	86.2	84.5	77.1
80°	67.9	67.9	67.9	66.1	66.1	64.2	64.2	62.4	58.8	56.9	53.2
82.5°	45.9	45.9	45.9	44.0	44.0	44.0	42.2	40.4	38.5	36.8	33.0
85°	29.4	29.4	29.4	27.5	27.5	27.5	25.8	25.8	23.9	22.0	18.4
87.5°	16.5	16.5	16.5	14.6	14.6	14.6	14.6	14.6	12.9	11.0	9.1
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°	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2
2.5°	1912.9	1887.2	1903.8	1903.8	1898.2	1912.9	1922.1	1929.4	1927.6	1911.1	1909.2
5°	1898.2	1876.2	1894.5	1896.4	1890.9	1911.1	1923.9	1933.1	1934.9	1920.2	1922.1
7.5°	1887.2	1868.9	1892.8	1900.0	1898.2	1916.6	1931.2	1946.0	1953.2	1942.2	1944.1
10°	1881.8	1867.0	1892.8	1903.8	1905.5	1925.8	1947.8	1968.0	1977.1	1969.9	1975.4
12.5°	1874.4	1865.1	1894.5	1911.1	1918.4	1938.6	1966.1	1990.0	2004.8	2001.0	2012.0
15°	1867.0	1859.6	1894.5	1918.4	1927.6	1946.0	1977.1	2012.0	2028.5	2026.8	2041.4
17.5°	1848.6	1846.9	1883.5	1909.2	1922.1	1944.1	1973.5	2015.8	2032.2	2035.9	2054.2
20°	1819.2	1819.2	1859.6	1887.2	1901.9	1922.1	1958.8	1999.1	2019.4	2023.0	2043.2
22.5°	1778.9	1782.5	1821.1	1848.6	1870.6	1885.4	1923.9	1966.1	1984.5	1990.0	2012.0
25°	1725.6	1729.4	1766.0	1793.6	1817.5	1834.0	1870.6	1909.2	1931.2	1936.8	1953.2
27.5°	1655.9	1663.2	1698.1	1725.6	1745.9	1756.9	1795.4	1835.8	1852.4	1857.9	1874.4
30°	1575.1	1577.0	1611.9	1635.8	1655.9	1665.1	1698.1	1740.4	1753.2	1758.8	1782.5
32.5°	1476.0	1474.1	1507.2	1529.2	1545.8	1556.8	1591.6	1619.1	1632.0	1641.2	1654.0
35°	1356.6	1354.9	1378.6	1404.4	1417.2	1420.9	1455.8	1485.1	1492.5	1499.9	1516.4
37.5°	1222.6	1222.6	1242.9	1255.6	1270.4	1275.9	1292.4	1325.5	1338.2	1336.5	1349.4
40°	1081.2	1074.0	1088.6	1101.5	1105.1	1107.0	1123.5	1149.2	1158.4	1158.4	1167.6
42.5°	932.6	921.6	923.4	930.8	934.4	921.6	932.6	949.1	943.6	951.0	952.8
45°	774.8	758.1	750.9	734.4	738.0	725.1	717.8	721.5	719.6	701.2	705.0
47.5°	646.2	616.9	604.0	580.1	574.6	559.9	550.8	534.2	519.5	519.5	510.4
50°	537.9	508.5	482.9	455.2	446.1	433.2	413.0	391.0	380.0	369.0	359.9
52.5°	451.6	420.4	389.2	359.9	347.0	330.5	302.9	280.9	260.6	249.6	238.6
55°	381.9	347.0	313.9	282.8	266.2	249.6	222.1	196.4	172.6	157.9	148.8
57.5°	328.6	295.6	260.6	227.6	213.0	194.6	165.2	137.6	115.6	99.1	90.0
60°	290.0	257.0	225.8	190.9	176.2	157.9	126.6	101.0	79.0	64.2	53.2
62.5°	257.0	227.6	194.6	163.4	148.8	130.4	101.0	75.2	55.1	40.4	31.2
65°	233.1	203.8	176.2	145.0	132.1	113.9	86.2	62.4	44.0	31.2	22.0
67.5°	205.6	179.9	152.4	126.6	113.9	99.1	73.4	53.2	36.8	25.8	18.4
70°	172.6	152.4	128.5	104.6	95.5	82.6	60.6	44.0	29.4	20.2	14.6
72.5°	137.6	121.1	102.8	84.5	77.1	64.2	49.6	34.9	22.0	14.6	11.0
75°	104.6	91.8	77.1	64.2	56.9	49.6	36.8	25.8	16.5	11.0	7.4
77.5°	71.6	66.1	55.1	44.0	40.4	34.9	23.9	16.5	11.0	7.4	3.6
80°	49.6	44.0	36.8	29.4	25.8	22.0	14.6	11.0	5.5	3.6	1.9
82.5°	31.2	25.8	22.0	18.4	16.5	12.9	9.1	5.5	3.6	1.9	1.9
85°	16.5	14.6	12.9	9.1	9.1	7.4	5.5	3.6	1.9	0.0	0.0
87.5°	9.1	7.4	5.5	3.6	3.6	1.9	1.9	1.9	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°	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2
2.5°	1931.2	1931.2	1929.4	1951.5	1925.8	1951.5	1938.6	1951.5	1933.1	1931.2	1933.1
5°	1946.0	1951.5	1953.2	1973.5	1949.6	1980.9	1969.9	1980.9	1968.0	1971.6	1977.1
7.5°	1975.4	1984.5	1982.6	2008.4	1984.5	2019.4	2012.0	2028.5	2015.8	2019.4	2026.8
10°	2008.4	2019.4	2021.2	2046.9	2024.9	2067.1	2057.9	2076.2	2065.2	2070.8	2080.0
12.5°	2046.9	2059.8	2061.6	2091.0	2067.1	2111.1	2105.6	2124.0	2114.9	2120.4	2131.4
15°	2076.2	2094.6	2098.4	2127.8	2102.0	2147.9	2144.2	2168.1	2153.4	2162.6	2171.8
17.5°	2091.0	2107.5	2114.9	2142.4	2120.4	2166.2	2162.6	2182.8	2171.8	2180.9	2192.0
20°	2081.8	2102.0	2107.5	2135.0	2113.0	2158.9	2153.4	2173.6	2162.6	2169.9	2180.9
22.5°	2048.8	2069.0	2076.2	2102.0	2081.8	2124.0	2122.1	2140.5	2125.9	2135.0	2144.2
25°	1990.0	2012.0	2015.8	2039.6	2017.5	2061.6	2057.9	2078.1	2067.1	2072.6	2085.5
27.5°	1905.5	1931.2	1936.8	1957.0	1940.5	1977.1	1977.1	1993.6	1980.9	1980.9	1993.6
30°	1804.6	1830.2	1834.0	1850.5	1835.8	1868.9	1870.6	1887.2	1867.0	1878.0	1879.9
32.5°	1681.6	1698.1	1709.1	1723.9	1701.8	1744.0	1738.5	1751.4	1740.4	1740.4	1749.5
35°	1532.9	1553.1	1558.6	1577.0	1558.6	1591.6	1591.6	1599.0	1588.0	1588.0	1602.6
37.5°	1371.4	1386.0	1387.9	1406.2	1391.5	1419.1	1417.2	1422.8	1411.8	1419.1	1419.1
40°	1182.2	1193.2	1197.0	1206.1	1204.2	1224.5	1222.6	1226.4	1220.8	1222.6	1226.4
42.5°	962.0	976.6	984.0	991.4	980.4	1007.9	1002.4	1007.9	1006.0	1007.9	1013.4
45°	708.6	719.6	725.1	727.0	723.2	739.9	752.6	741.6	743.5	739.9	747.1
47.5°	512.2	514.0	510.4	521.4	512.2	519.5	523.2	525.0	514.0	512.2	519.5
50°	350.6	359.9	347.0	352.5	350.6	358.0	354.2	356.1	345.1	350.6	347.0
52.5°	233.1	231.2	227.6	229.5	225.8	225.8	225.8	229.5	222.1	218.5	214.8
55°	141.4	137.6	130.4	128.5	128.5	130.4	126.6	123.0	123.0	121.1	121.1
57.5°	82.6	77.1	73.4	71.6	67.9	66.1	64.2	64.2	60.6	60.6	60.6
60°	45.9	40.4	36.8	33.0	33.0	31.2	29.4	27.5	27.5	27.5	25.8
62.5°	23.9	20.2	16.5	14.6	14.6	12.9	11.0	11.0	11.0	11.0	9.1
65°	16.5	12.9	11.0	9.1	9.1	7.4	7.4	7.4	7.4	7.4	7.4
67.5°	12.9	11.0	9.1	7.4	7.4	7.4	5.5	5.5	5.5	5.5	5.5
70°	11.0	7.4	7.4	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
72.5°	7.4	7.4	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
75°	5.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
80°	1.9	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: P252179

CATALOG NUMBER: LE\_6B30D010 EC6B30509730 6LBSW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2
2.5°	1949.6	1947.8	1949.6	1953.2	1946.0	1968.0	1957.0	1968.0
5°	1991.9	1993.6	1995.5	2001.0	1991.9	2019.4	2004.8	2021.2
7.5°	2046.9	2048.8	2050.6	2056.1	2050.6	2078.1	2061.6	2076.2
10°	2103.9	2107.5	2107.5	2116.6	2111.1	2136.9	2125.9	2144.2
12.5°	2157.1	2160.8	2164.4	2169.9	2166.2	2193.8	2184.6	2199.2
15°	2199.2	2206.6	2208.5	2215.8	2212.1	2241.5	2230.5	2245.1
17.5°	2219.5	2226.9	2226.9	2236.0	2232.4	2263.5	2248.9	2265.4
20°	2208.5	2214.0	2215.8	2225.0	2221.4	2252.5	2237.9	2258.0
22.5°	2173.6	2175.4	2177.2	2186.5	2184.6	2212.1	2199.2	2212.1
25°	2109.4	2114.9	2113.0	2120.4	2120.4	2142.4	2127.8	2138.8
27.5°	2017.5	2023.0	2023.0	2032.2	2024.9	2046.9	2032.2	2048.8
30°	1905.5	1911.1	1907.4	1914.8	1907.4	1929.4	1918.4	1923.9
32.5°	1771.5	1771.5	1773.4	1775.2	1771.5	1791.8	1780.8	1791.8
35°	1611.9	1615.5	1617.4	1619.1	1615.5	1630.2	1617.4	1624.6
37.5°	1431.9	1441.1	1439.2	1441.1	1435.6	1454.0	1443.0	1446.6
40°	1239.1	1239.1	1237.4	1241.0	1235.5	1250.1	1242.9	1246.5
42.5°	1015.2	1020.8	1013.4	1022.5	1007.9	1028.0	1020.8	1015.2
45°	761.9	754.5	752.6	754.5	749.0	750.9	756.4	752.6
47.5°	519.5	519.5	515.9	510.4	517.8	519.5	512.2	512.2
50°	348.8	348.8	345.1	343.2	347.0	345.1	341.5	347.0
52.5°	222.1	214.8	214.8	218.5	214.8	211.1	216.6	213.0
55°	121.1	117.5	117.5	121.1	117.5	117.5	115.6	119.4
57.5°	58.8	60.6	58.8	58.8	58.8	58.8	56.9	58.8
60°	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
62.5°	11.0	11.0	9.1	9.1	9.1	9.1	9.1	9.1
65°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
67.5°	5.5	5.5	5.5	5.5	5.5	7.4	5.5	5.5
70°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
72.5°	5.5	5.5	7.4	7.4	7.4	7.4	7.4	7.4
75°	3.6	3.6	3.6	1.9	1.9	1.9	1.9	1.9
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)