

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: P212819

Luminaire Tested: **LE\_6B30D010 EC6B30509050 6LBSWL11**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212819  
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 EC6B30509050 6LBSWL1  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3076.0 lumens  
Efficiency: N/A  
Efficacy: 109.9 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

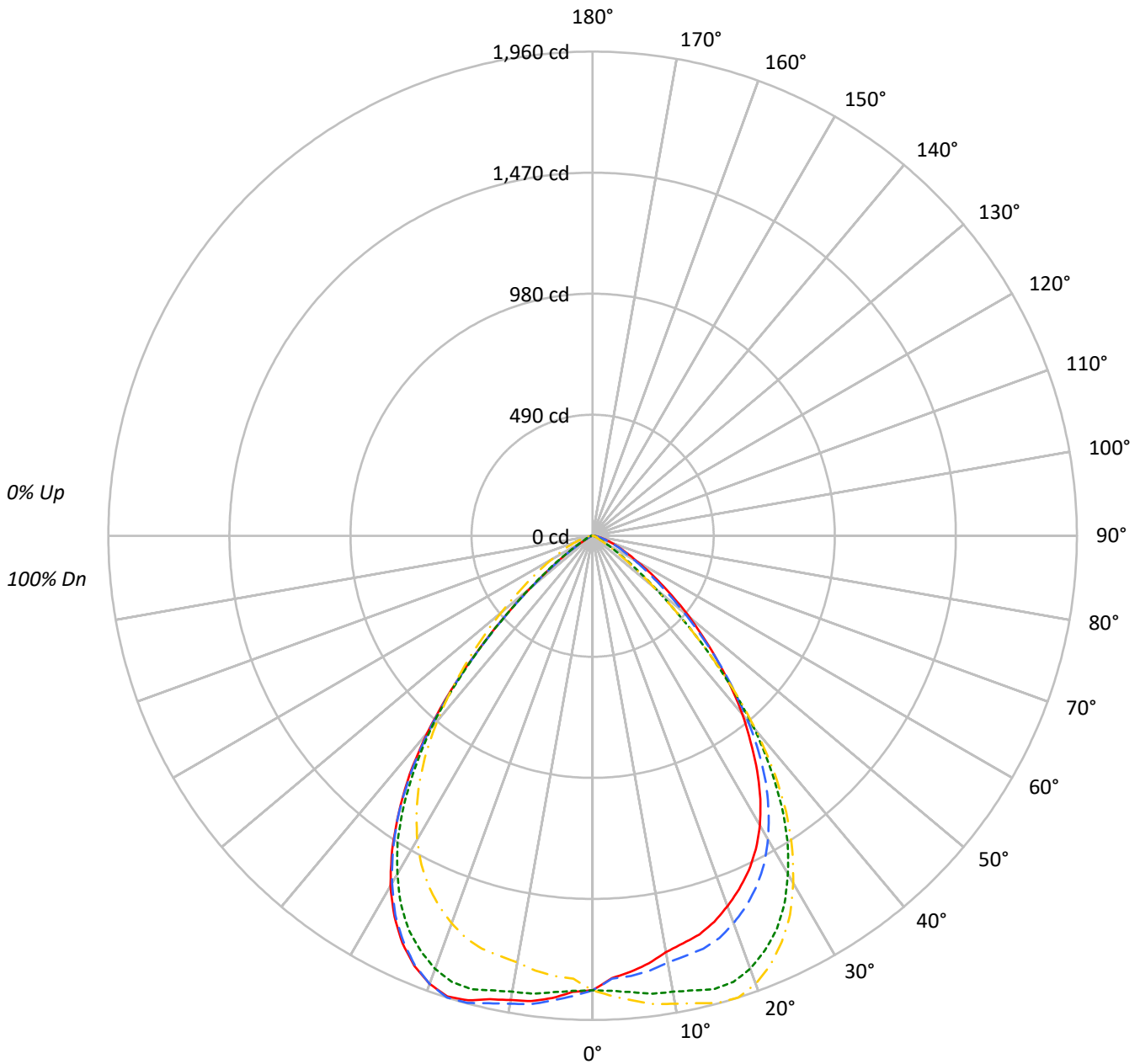
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P212819

CATALOG NUMBER: LE\_6B30D010 EC6B30509050 6LBSWL11

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

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

	0°	90°	180°	270°
0°	100858	100858	100858	100858
5°	97468	102069	103368	102069
10°	95255	104318	106233	104318
15°	94813	107821	110494	107821
20°	93085	108830	112581	108830
25°	90429	106488	110117	106488
30°	85684	100053	103586	100053
35°	77691	89148	91591	89148
40°	67441	72650	74490	72650
45°	55293	50152	50478	50152
50°	43478	28136	27581	28136
55°	32133	13916	12482	13916
60°	22783	6096	4473	6096
65°	16941	3891	2776	3891
70°	12358	3077	2068	3077
75°	9087	2288	1356	2288
80°	6061	2020	663	2020
85°	4026	1321	1321	1321



TEST NUMBER: P212819

CATALOG NUMBER: LE\_6B30D010 EC6B30509050 6LBSWLI1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.1	5.7
10°-20°	521.6	17.0
20°-30°	778.4	25.3
30°-40°	799.8	26.0
40°-50°	517.9	16.8
50°-60°	192.6	6.3
60°-70°	63.2	2.1
70°-80°	22.3	0.7
80°-90°	4.0	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°	1476.2	48.0
0°-40°	2276.0	74.0
0°-60°	2986.5	97.1
0°-90°	3076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3076.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1840	1840	1840	1840	1840	
5°	1771	1855	1878	1855	1771	167
15°	1671	1900	1947	1900	1671	470
25°	1495	1760	1820	1760	1495	685
35°	1161	1332	1369	1332	1161	721
45°	713	647	651	647	713	551
55°	336	146	131	146	336	307
65°	131	30	21	30	131	133
75°	43	11	6	11	43	47
85°	6	2	2	2	6	8
90°	0	0	0	0	0	



TEST NUMBER: P212819

CATALOG NUMBER: LE\_6B30D010 EC6B30509050 6LBSWL11

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8
2.5°	1792.6	1818.4	1801.2	1812.0	1794.8	1794.8	1829.1	1809.8	1824.8	1809.8	1794.8
5°	1771.2	1803.4	1782.0	1792.6	1777.6	1779.9	1812.0	1797.0	1812.0	1801.2	1788.4
7.5°	1745.5	1777.6	1758.4	1769.1	1754.1	1758.4	1792.6	1777.6	1794.8	1784.1	1775.5
10°	1711.2	1745.5	1728.4	1739.1	1726.2	1728.4	1762.6	1752.0	1767.0	1760.5	1754.1
12.5°	1689.9	1722.0	1702.8	1713.4	1704.9	1709.1	1741.2	1732.8	1752.0	1745.5	1741.2
15°	1670.6	1700.6	1683.4	1694.1	1687.8	1689.9	1724.1	1715.6	1737.0	1732.8	1730.5
17.5°	1638.5	1670.6	1651.2	1664.1	1657.8	1659.9	1694.1	1687.8	1709.1	1709.1	1707.0
20°	1595.6	1627.8	1612.8	1621.4	1617.0	1621.4	1651.2	1647.0	1668.5	1668.5	1668.5
22.5°	1548.5	1580.6	1563.5	1572.1	1567.8	1574.2	1602.0	1602.0	1619.1	1621.4	1623.5
25°	1495.0	1527.1	1510.0	1520.6	1516.4	1520.6	1546.4	1548.5	1563.5	1563.5	1567.8
27.5°	1430.8	1462.9	1445.8	1454.2	1452.1	1454.2	1482.1	1486.4	1495.0	1497.1	1501.4
30°	1353.6	1383.6	1366.5	1375.0	1375.0	1375.0	1402.9	1405.0	1413.6	1415.8	1420.0
32.5°	1263.6	1289.4	1276.5	1285.1	1282.9	1287.2	1306.5	1315.0	1325.8	1323.6	1325.8
35°	1160.9	1188.6	1175.9	1182.2	1184.4	1190.9	1203.6	1214.4	1216.5	1218.6	1223.0
37.5°	1049.5	1077.4	1064.5	1070.9	1073.0	1085.9	1090.1	1100.9	1105.1	1105.1	1105.1
40°	942.4	955.2	944.5	951.0	953.1	963.8	968.1	976.6	980.9	978.8	976.6
42.5°	826.8	837.4	826.8	833.1	833.1	841.8	843.9	854.6	854.6	850.2	843.9
45°	713.2	723.9	713.2	717.5	717.5	726.0	726.0	726.0	730.4	723.9	713.2
47.5°	606.1	616.9	606.1	610.4	608.2	614.8	612.5	614.8	608.2	604.0	591.1
50°	509.8	514.0	509.8	507.6	509.8	514.0	511.9	511.9	503.4	496.9	481.9
52.5°	415.5	421.9	415.5	415.5	415.5	419.8	419.8	417.6	409.1	400.5	385.5
55°	336.2	340.5	338.4	336.2	336.2	340.5	336.2	336.2	327.8	321.2	306.2
57.5°	267.8	269.9	267.8	267.8	267.8	269.9	269.9	265.6	259.1	252.8	242.0
60°	207.8	209.9	209.9	207.8	207.8	212.0	212.0	209.9	203.5	199.1	188.5
62.5°	164.9	164.9	164.9	164.9	164.9	167.0	167.0	167.0	162.8	158.5	149.9
65°	130.6	132.8	130.6	130.6	132.8	134.9	132.8	134.9	130.6	128.5	122.1
67.5°	100.6	102.8	100.6	102.8	102.8	105.0	102.8	105.0	100.6	98.5	94.2
70°	77.1	77.1	77.1	77.1	77.1	79.2	77.1	79.2	77.1	75.0	70.6
72.5°	57.9	57.9	60.0	60.0	57.9	60.0	57.9	57.9	57.9	55.6	53.5
75°	42.9	42.9	45.0	42.9	42.9	42.9	42.9	42.9	40.8	40.8	38.5
77.5°	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	27.9	27.9	25.8
80°	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	17.1	17.1
82.5°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	10.8	10.8
85°	6.4	6.4	6.4	8.6	6.4	6.4	6.4	6.4	6.4	6.4	6.4
87.5°	2.1	2.1	2.1	4.2	2.1	2.1	4.2	4.2	2.1	2.1	2.1
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: P212819

CATALOG NUMBER: LE\_6B30D010 EC6B30509050 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8
2.5°	1812.0	1818.4	1818.4	1812.0	1826.9	1814.1	1839.8	1816.2	1822.6	1844.1	1841.9
5°	1805.5	1814.1	1816.2	1812.0	1831.2	1820.5	1846.2	1822.6	1833.4	1854.8	1854.8
7.5°	1797.0	1807.6	1812.0	1816.2	1833.4	1822.6	1852.6	1829.1	1844.1	1869.8	1867.6
10°	1777.6	1792.6	1801.2	1807.6	1824.8	1818.4	1850.5	1831.2	1844.1	1874.0	1871.9
12.5°	1767.0	1784.1	1797.0	1807.6	1826.9	1822.6	1854.8	1837.6	1854.8	1884.8	1884.8
15°	1758.4	1777.6	1792.6	1812.0	1831.2	1826.9	1861.2	1846.2	1863.4	1899.8	1897.6
17.5°	1737.0	1760.5	1775.5	1797.0	1816.2	1814.1	1850.5	1839.8	1859.0	1893.4	1895.5
20°	1700.6	1722.0	1739.1	1764.9	1786.2	1782.0	1820.5	1809.8	1829.1	1865.5	1867.6
22.5°	1653.5	1674.9	1692.0	1719.9	1739.1	1737.0	1775.5	1764.9	1784.1	1818.4	1820.5
25°	1597.8	1617.0	1634.1	1659.9	1681.2	1681.2	1715.6	1704.9	1726.2	1760.5	1760.5
27.5°	1529.2	1546.4	1561.4	1591.4	1608.5	1608.5	1640.6	1629.9	1651.2	1681.2	1679.1
30°	1445.8	1460.8	1473.5	1499.2	1514.2	1516.4	1544.2	1533.5	1554.9	1580.6	1580.6
32.5°	1345.0	1360.0	1368.6	1400.8	1411.4	1409.2	1430.8	1420.0	1441.4	1469.2	1462.9
35°	1238.0	1244.4	1250.8	1282.9	1287.2	1278.6	1300.0	1289.4	1304.4	1332.1	1327.9
37.5°	1115.9	1118.0	1118.0	1145.9	1148.0	1141.6	1154.4	1141.6	1152.2	1178.0	1175.9
40°	980.9	978.8	976.6	998.1	995.9	983.1	991.6	980.9	995.9	1015.2	1004.5
42.5°	843.9	837.4	828.9	839.6	831.0	820.2	824.6	807.5	818.1	833.1	820.2
45°	708.9	696.1	679.0	681.1	670.4	657.5	651.1	634.0	631.9	646.9	636.1
47.5°	582.6	556.9	541.9	533.2	516.1	505.5	492.6	473.4	464.8	473.4	462.6
50°	469.0	443.4	424.1	404.8	387.6	374.8	353.4	340.5	327.8	329.9	321.2
52.5°	370.5	353.4	321.2	306.2	289.1	274.1	254.9	239.9	224.9	224.9	216.4
55°	293.4	269.9	248.5	227.0	209.9	197.0	177.8	162.8	147.8	145.6	137.1
57.5°	227.0	209.9	186.4	164.9	154.2	141.4	122.1	105.0	96.4	90.0	83.5
60°	175.6	158.5	139.2	122.1	109.2	100.6	81.4	68.5	60.0	55.6	49.2
62.5°	141.4	126.4	109.2	92.1	83.5	75.0	60.0	49.2	40.8	36.4	32.1
65°	113.5	100.6	87.9	75.0	68.5	60.0	49.2	40.8	34.2	30.0	25.8
67.5°	87.9	79.2	68.5	60.0	53.5	47.1	38.5	32.1	27.9	23.5	21.4
70°	66.4	60.0	53.5	45.0	40.8	36.4	30.0	23.5	21.4	19.2	17.1
72.5°	51.4	45.0	38.5	34.2	30.0	27.9	23.5	19.2	17.1	15.0	12.9
75°	34.2	32.1	27.9	23.5	21.4	19.2	17.1	15.0	12.9	10.8	10.8
77.5°	23.5	21.4	19.2	17.1	15.0	15.0	12.9	10.8	8.6	8.6	6.4
80°	15.0	12.9	12.9	10.8	10.8	10.8	8.6	6.4	6.4	6.4	4.2
82.5°	10.8	8.6	8.6	6.4	6.4	6.4	6.4	4.2	4.2	4.2	2.1
85°	6.4	4.2	4.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	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°	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8
2.5°	1824.8	1844.1	1844.1	1861.2	1863.4	1859.0	1839.8	1839.8	1865.5	1880.5	1854.8
5°	1841.9	1861.2	1861.2	1878.4	1886.9	1880.5	1861.2	1863.4	1889.0	1906.1	1880.5
7.5°	1856.9	1876.2	1880.5	1899.8	1906.1	1899.8	1880.5	1884.8	1912.6	1927.6	1901.9
10°	1863.4	1882.6	1884.8	1906.1	1914.8	1906.1	1891.2	1893.4	1923.4	1934.0	1910.5
12.5°	1878.4	1897.6	1897.6	1921.1	1929.8	1923.4	1904.0	1908.4	1938.2	1949.0	1925.5
15°	1893.4	1912.6	1912.6	1938.2	1949.0	1940.5	1925.5	1927.6	1957.6	1968.2	1949.0
17.5°	1893.4	1910.5	1910.5	1938.2	1949.0	1942.6	1925.5	1927.6	1959.8	1968.2	1949.0
20°	1865.5	1884.8	1880.5	1908.4	1919.0	1912.6	1897.6	1897.6	1929.8	1938.2	1919.0
22.5°	1820.5	1837.6	1833.4	1859.0	1871.9	1863.4	1850.5	1848.4	1880.5	1889.0	1869.8
25°	1758.4	1775.5	1771.2	1797.0	1809.8	1799.1	1784.1	1786.2	1812.0	1824.8	1807.6
27.5°	1685.6	1696.2	1689.9	1715.6	1728.4	1717.8	1702.8	1704.9	1730.5	1739.1	1726.2
30°	1587.0	1595.6	1589.2	1610.6	1619.1	1612.8	1599.9	1599.9	1623.5	1634.1	1621.4
32.5°	1469.2	1475.6	1469.2	1486.4	1503.5	1490.6	1477.9	1477.9	1503.5	1512.1	1497.1
35°	1332.1	1338.6	1334.4	1351.5	1364.2	1347.1	1336.5	1332.1	1366.5	1362.1	1353.6
37.5°	1180.1	1184.4	1171.5	1201.5	1208.0	1188.6	1180.1	1175.9	1205.9	1203.6	1195.1
40°	1008.8	1013.0	1004.5	1025.9	1028.0	1013.0	1006.6	1000.2	1030.2	1028.0	1021.6
42.5°	826.8	828.9	818.1	835.2	839.6	824.6	822.5	813.9	841.8	837.4	835.2
45°	638.2	638.2	629.6	642.5	646.9	634.0	629.6	627.5	646.9	646.9	642.5
47.5°	462.6	456.2	445.5	464.8	466.9	458.4	456.2	449.8	469.0	469.0	464.8
50°	317.0	314.9	312.8	317.0	319.1	308.4	314.9	308.4	319.1	319.1	319.1
52.5°	212.0	209.9	205.6	209.9	209.9	203.5	203.5	201.4	209.9	209.9	205.6
55°	132.8	130.6	128.5	130.6	130.6	124.2	128.5	124.2	128.5	128.5	126.4
57.5°	81.4	77.1	77.1	75.0	75.0	70.6	72.9	72.9	72.9	72.9	72.9
60°	47.1	45.0	42.9	42.9	42.9	40.8	40.8	40.8	40.8	40.8	40.8
62.5°	30.0	30.0	27.9	27.9	27.9	27.9	27.9	25.8	27.9	27.9	27.9
65°	25.8	23.5	23.5	23.5	23.5	21.4	21.4	21.4	21.4	21.4	21.4
67.5°	21.4	19.2	19.2	19.2	19.2	17.1	17.1	17.1	17.1	17.1	17.1
70°	17.1	15.0	15.0	15.0	15.0	15.0	12.9	15.0	15.0	12.9	12.9
72.5°	12.9	12.9	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
75°	8.6	8.6	8.6	8.6	8.6	6.4	6.4	6.4	6.4	6.4	6.4
77.5°	6.4	6.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
80°	4.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	2.1	2.1	0.0	2.1	0.0	2.1	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: P212819

CATALOG NUMBER: LE\_6B30D010 EC6B30509050 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8
2.5°	1884.8	1863.4	1852.6	1874.0	1882.6	1871.9	1863.4	1848.4	1863.4	1871.9	1882.6
5°	1910.5	1891.2	1882.6	1897.6	1910.5	1899.8	1893.4	1878.4	1893.4	1899.8	1910.5
7.5°	1934.0	1914.8	1904.0	1919.0	1934.0	1919.0	1912.6	1899.8	1912.6	1919.0	1934.0
10°	1942.6	1921.1	1912.6	1925.5	1940.5	1925.5	1916.9	1908.4	1916.9	1925.5	1940.5
12.5°	1957.6	1936.1	1925.5	1936.1	1951.1	1936.1	1927.6	1921.1	1927.6	1936.1	1951.1
15°	1979.0	1959.8	1946.9	1957.6	1976.9	1959.8	1949.0	1946.9	1949.0	1959.8	1976.9
17.5°	1979.0	1964.0	1951.1	1959.8	1979.0	1966.1	1951.1	1955.5	1951.1	1966.1	1979.0
20°	1951.1	1936.1	1925.5	1925.5	1953.2	1936.1	1923.4	1929.8	1923.4	1936.1	1953.2
22.5°	1901.9	1889.0	1878.4	1876.2	1904.0	1889.0	1871.9	1884.8	1871.9	1889.0	1904.0
25°	1837.6	1824.8	1816.2	1812.0	1839.8	1822.6	1807.6	1820.5	1807.6	1822.6	1839.8
27.5°	1754.1	1743.4	1734.9	1728.4	1754.1	1739.1	1724.1	1737.0	1724.1	1739.1	1754.1
30°	1647.0	1640.6	1632.0	1623.5	1649.1	1634.1	1619.1	1636.4	1619.1	1634.1	1649.1
32.5°	1522.8	1518.5	1507.8	1499.2	1525.0	1507.8	1497.1	1510.0	1497.1	1507.8	1525.0
35°	1379.2	1372.9	1366.5	1351.5	1379.2	1364.2	1364.2	1368.6	1364.2	1364.2	1379.2
37.5°	1218.6	1214.4	1205.9	1193.0	1216.5	1205.9	1201.5	1214.4	1201.5	1205.9	1216.5
40°	1038.8	1036.6	1030.2	1015.2	1040.9	1030.2	1023.8	1040.9	1023.8	1030.2	1040.9
42.5°	850.2	846.0	839.6	837.4	850.2	841.8	848.1	848.1	848.1	841.8	850.2
45°	655.4	651.1	646.9	638.2	653.2	649.0	646.9	651.1	646.9	649.0	653.2
47.5°	475.5	471.2	466.9	460.5	475.5	469.0	469.0	473.4	469.0	469.0	475.5
50°	319.1	321.2	319.1	314.9	319.1	317.0	319.1	323.4	319.1	317.0	319.1
52.5°	212.0	212.0	207.8	205.6	209.9	207.8	214.1	209.9	214.1	207.8	209.9
55°	128.5	130.6	128.5	126.4	128.5	126.4	132.8	130.6	132.8	126.4	128.5
57.5°	72.9	72.9	75.0	72.9	77.1	75.0	75.0	75.0	75.0	75.0	77.1
60°	40.8	40.8	40.8	40.8	40.8	40.8	42.9	40.8	42.9	40.8	40.8
62.5°	27.9	27.9	27.9	25.8	27.9	25.8	27.9	27.9	27.9	25.8	27.9
65°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
67.5°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
70°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
72.5°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
75°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	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: P212819

CATALOG NUMBER: LE\_6B30D010 EC6B30509050 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8
2.5°	1874.0	1852.6	1863.4	1884.8	1854.8	1880.5	1865.5	1839.8	1839.8	1859.0	1863.4
5°	1897.6	1882.6	1891.2	1910.5	1880.5	1906.1	1889.0	1863.4	1861.2	1880.5	1886.9
7.5°	1919.0	1904.0	1914.8	1934.0	1901.9	1927.6	1912.6	1884.8	1880.5	1899.8	1906.1
10°	1925.5	1912.6	1921.1	1942.6	1910.5	1934.0	1923.4	1893.4	1891.2	1906.1	1914.8
12.5°	1936.1	1925.5	1936.1	1957.6	1925.5	1949.0	1938.2	1908.4	1904.0	1923.4	1929.8
15°	1957.6	1946.9	1959.8	1979.0	1949.0	1968.2	1957.6	1927.6	1925.5	1940.5	1949.0
17.5°	1959.8	1951.1	1964.0	1979.0	1949.0	1968.2	1959.8	1927.6	1925.5	1942.6	1949.0
20°	1925.5	1925.5	1936.1	1951.1	1919.0	1938.2	1929.8	1897.6	1897.6	1912.6	1919.0
22.5°	1876.2	1878.4	1889.0	1901.9	1869.8	1889.0	1880.5	1848.4	1850.5	1863.4	1871.9
25°	1812.0	1816.2	1824.8	1837.6	1807.6	1824.8	1812.0	1786.2	1784.1	1799.1	1809.8
27.5°	1728.4	1734.9	1743.4	1754.1	1726.2	1739.1	1730.5	1704.9	1702.8	1717.8	1728.4
30°	1623.5	1632.0	1640.6	1647.0	1621.4	1634.1	1623.5	1599.9	1599.9	1612.8	1619.1
32.5°	1499.2	1507.8	1518.5	1522.8	1497.1	1512.1	1503.5	1477.9	1477.9	1490.6	1503.5
35°	1351.5	1366.5	1372.9	1379.2	1353.6	1362.1	1366.5	1332.1	1336.5	1347.1	1364.2
37.5°	1193.0	1205.9	1214.4	1218.6	1195.1	1203.6	1205.9	1175.9	1180.1	1188.6	1208.0
40°	1015.2	1030.2	1036.6	1038.8	1021.6	1028.0	1030.2	1000.2	1006.6	1013.0	1028.0
42.5°	837.4	839.6	846.0	850.2	835.2	837.4	841.8	813.9	822.5	824.6	839.6
45°	638.2	646.9	651.1	655.4	642.5	646.9	646.9	627.5	629.6	634.0	646.9
47.5°	460.5	466.9	471.2	475.5	464.8	469.0	469.0	449.8	456.2	458.4	466.9
50°	314.9	319.1	321.2	319.1	319.1	319.1	319.1	308.4	314.9	308.4	319.1
52.5°	205.6	207.8	212.0	212.0	205.6	209.9	209.9	201.4	203.5	203.5	209.9
55°	126.4	128.5	130.6	128.5	126.4	128.5	128.5	124.2	128.5	124.2	130.6
57.5°	72.9	75.0	72.9	72.9	72.9	72.9	72.9	72.9	72.9	70.6	75.0
60°	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	42.9
62.5°	25.8	27.9	27.9	27.9	27.9	27.9	27.9	25.8	27.9	27.9	27.9
65°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	23.5
67.5°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	19.2
70°	12.9	12.9	12.9	12.9	12.9	12.9	15.0	15.0	12.9	15.0	15.0
72.5°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
75°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	8.6
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	2.1	0.0	2.1
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: P212819

CATALOG NUMBER: LE\_6B30D010 EC6B30509050 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8
2.5°	1861.2	1844.1	1844.1	1824.8	1841.9	1844.1	1822.6	1816.2	1839.8	1814.1	1826.9
5°	1878.4	1861.2	1861.2	1841.9	1854.8	1854.8	1833.4	1822.6	1846.2	1820.5	1831.2
7.5°	1899.8	1880.5	1876.2	1856.9	1867.6	1869.8	1844.1	1829.1	1852.6	1822.6	1833.4
10°	1906.1	1884.8	1882.6	1863.4	1871.9	1874.0	1844.1	1831.2	1850.5	1818.4	1824.8
12.5°	1921.1	1897.6	1897.6	1878.4	1884.8	1884.8	1854.8	1837.6	1854.8	1822.6	1826.9
15°	1938.2	1912.6	1912.6	1893.4	1897.6	1899.8	1863.4	1846.2	1861.2	1826.9	1831.2
17.5°	1938.2	1910.5	1910.5	1893.4	1895.5	1893.4	1859.0	1839.8	1850.5	1814.1	1816.2
20°	1908.4	1880.5	1884.8	1865.5	1867.6	1865.5	1829.1	1809.8	1820.5	1782.0	1786.2
22.5°	1859.0	1833.4	1837.6	1820.5	1820.5	1818.4	1784.1	1764.9	1775.5	1737.0	1739.1
25°	1797.0	1771.2	1775.5	1758.4	1760.5	1760.5	1726.2	1704.9	1715.6	1681.2	1681.2
27.5°	1715.6	1689.9	1696.2	1685.6	1679.1	1681.2	1651.2	1629.9	1640.6	1608.5	1608.5
30°	1610.6	1589.2	1595.6	1587.0	1580.6	1580.6	1554.9	1533.5	1544.2	1516.4	1514.2
32.5°	1486.4	1469.2	1475.6	1469.2	1462.9	1469.2	1441.4	1420.0	1430.8	1409.2	1411.4
35°	1351.5	1334.4	1338.6	1332.1	1327.9	1332.1	1304.4	1289.4	1300.0	1278.6	1287.2
37.5°	1201.5	1171.5	1184.4	1180.1	1175.9	1178.0	1152.2	1141.6	1154.4	1141.6	1148.0
40°	1025.9	1004.5	1013.0	1008.8	1004.5	1015.2	995.9	980.9	991.6	983.1	995.9
42.5°	835.2	818.1	828.9	826.8	820.2	833.1	818.1	807.5	824.6	820.2	831.0
45°	642.5	629.6	638.2	638.2	636.1	646.9	631.9	634.0	651.1	657.5	670.4
47.5°	464.8	445.5	456.2	462.6	462.6	473.4	464.8	473.4	492.6	505.5	516.1
50°	317.0	312.8	314.9	317.0	321.2	329.9	327.8	340.5	353.4	374.8	387.6
52.5°	209.9	205.6	209.9	212.0	216.4	224.9	224.9	239.9	254.9	274.1	289.1
55°	130.6	128.5	130.6	132.8	137.1	145.6	147.8	162.8	177.8	197.0	209.9
57.5°	75.0	77.1	77.1	81.4	83.5	90.0	96.4	105.0	122.1	141.4	154.2
60°	42.9	42.9	45.0	47.1	49.2	55.6	60.0	68.5	81.4	100.6	109.2
62.5°	27.9	27.9	30.0	30.0	32.1	36.4	40.8	49.2	60.0	75.0	83.5
65°	23.5	23.5	23.5	25.8	25.8	30.0	34.2	40.8	49.2	60.0	68.5
67.5°	19.2	19.2	19.2	21.4	21.4	23.5	27.9	32.1	38.5	47.1	53.5
70°	15.0	15.0	15.0	17.1	17.1	19.2	21.4	23.5	30.0	36.4	40.8
72.5°	10.8	10.8	12.9	12.9	12.9	15.0	17.1	19.2	23.5	27.9	30.0
75°	8.6	8.6	8.6	8.6	10.8	10.8	12.9	15.0	17.1	19.2	21.4
77.5°	4.2	4.2	6.4	6.4	6.4	8.6	8.6	10.8	12.9	15.0	15.0
80°	4.2	4.2	4.2	4.2	4.2	6.4	6.4	6.4	8.6	10.8	10.8
82.5°	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2	6.4	6.4	6.4
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1
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: P212819

CATALOG NUMBER: LE\_6B30D010 EC6B30509050 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8	1839.8
2.5°	1812.0	1818.4	1818.4	1812.0	1794.8	1809.8	1824.8	1809.8	1829.1	1794.8	1794.8
5°	1812.0	1816.2	1814.1	1805.5	1788.4	1801.2	1812.0	1797.0	1812.0	1779.9	1777.6
7.5°	1816.2	1812.0	1807.6	1797.0	1775.5	1784.1	1794.8	1777.6	1792.6	1758.4	1754.1
10°	1807.6	1801.2	1792.6	1777.6	1754.1	1760.5	1767.0	1752.0	1762.6	1728.4	1726.2
12.5°	1807.6	1797.0	1784.1	1767.0	1741.2	1745.5	1752.0	1732.8	1741.2	1709.1	1704.9
15°	1812.0	1792.6	1777.6	1758.4	1730.5	1732.8	1737.0	1715.6	1724.1	1689.9	1687.8
17.5°	1797.0	1775.5	1760.5	1737.0	1707.0	1709.1	1709.1	1687.8	1694.1	1659.9	1657.8
20°	1764.9	1739.1	1722.0	1700.6	1668.5	1668.5	1668.5	1647.0	1651.2	1621.4	1617.0
22.5°	1719.9	1692.0	1674.9	1653.5	1623.5	1621.4	1619.1	1602.0	1602.0	1574.2	1567.8
25°	1659.9	1634.1	1617.0	1597.8	1567.8	1563.5	1563.5	1548.5	1546.4	1520.6	1516.4
27.5°	1591.4	1561.4	1546.4	1529.2	1501.4	1497.1	1495.0	1486.4	1482.1	1454.2	1452.1
30°	1499.2	1473.5	1460.8	1445.8	1420.0	1415.8	1413.6	1405.0	1402.9	1375.0	1375.0
32.5°	1400.8	1368.6	1360.0	1345.0	1325.8	1323.6	1325.8	1315.0	1306.5	1287.2	1282.9
35°	1282.9	1250.8	1244.4	1238.0	1223.0	1218.6	1216.5	1214.4	1203.6	1190.9	1184.4
37.5°	1145.9	1118.0	1118.0	1115.9	1105.1	1105.1	1105.1	1100.9	1090.1	1085.9	1073.0
40°	998.1	976.6	978.8	980.9	976.6	978.8	980.9	976.6	968.1	963.8	953.1
42.5°	839.6	828.9	837.4	843.9	843.9	850.2	854.6	854.6	843.9	841.8	833.1
45°	681.1	679.0	696.1	708.9	713.2	723.9	730.4	726.0	726.0	726.0	717.5
47.5°	533.2	541.9	556.9	582.6	591.1	604.0	608.2	614.8	612.5	614.8	608.2
50°	404.8	424.1	443.4	469.0	481.9	496.9	503.4	511.9	511.9	514.0	509.8
52.5°	306.2	321.2	353.4	370.5	385.5	400.5	409.1	417.6	419.8	419.8	415.5
55°	227.0	248.5	269.9	293.4	306.2	321.2	327.8	336.2	336.2	340.5	336.2
57.5°	164.9	186.4	209.9	227.0	242.0	252.8	259.1	265.6	269.9	269.9	267.8
60°	122.1	139.2	158.5	175.6	188.5	199.1	203.5	209.9	212.0	212.0	207.8
62.5°	92.1	109.2	126.4	141.4	149.9	158.5	162.8	167.0	167.0	167.0	164.9
65°	75.0	87.9	100.6	113.5	122.1	128.5	130.6	134.9	132.8	134.9	132.8
67.5°	60.0	68.5	79.2	87.9	94.2	98.5	100.6	105.0	102.8	105.0	102.8
70°	45.0	53.5	60.0	66.4	70.6	75.0	77.1	79.2	77.1	79.2	77.1
72.5°	34.2	38.5	45.0	51.4	53.5	55.6	57.9	57.9	57.9	60.0	57.9
75°	23.5	27.9	32.1	34.2	38.5	40.8	40.8	42.9	42.9	42.9	42.9
77.5°	17.1	19.2	21.4	23.5	25.8	27.9	27.9	30.0	30.0	30.0	30.0
80°	10.8	12.9	12.9	15.0	17.1	17.1	19.2	19.2	19.2	19.2	19.2
82.5°	6.4	8.6	8.6	10.8	10.8	10.8	12.9	12.9	12.9	12.9	12.9
85°	4.2	4.2	4.2	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	2.1	2.1
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: P212819

CATALOG NUMBER: LE\_6B30D010 EC6B30509050 6LBSWLI1

**CANDELA DISTRIBUTION (continued):**

	345°	350°	355°	360°
0°	1839.8	1839.8	1839.8	1839.8
2.5°	1812.0	1801.2	1818.4	1792.6
5°	1792.6	1782.0	1803.4	1771.2
7.5°	1769.1	1758.4	1777.6	1745.5
10°	1739.1	1728.4	1745.5	1711.2
12.5°	1713.4	1702.8	1722.0	1689.9
15°	1694.1	1683.4	1700.6	1670.6
17.5°	1664.1	1651.2	1670.6	1638.5
20°	1621.4	1612.8	1627.8	1595.6
22.5°	1572.1	1563.5	1580.6	1548.5
25°	1520.6	1510.0	1527.1	1495.0
27.5°	1454.2	1445.8	1462.9	1430.8
30°	1375.0	1366.5	1383.6	1353.6
32.5°	1285.1	1276.5	1289.4	1263.6
35°	1182.2	1175.9	1188.6	1160.9
37.5°	1070.9	1064.5	1077.4	1049.5
40°	951.0	944.5	955.2	942.4
42.5°	833.1	826.8	837.4	826.8
45°	717.5	713.2	723.9	713.2
47.5°	610.4	606.1	616.9	606.1
50°	507.6	509.8	514.0	509.8
52.5°	415.5	415.5	421.9	415.5
55°	336.2	338.4	340.5	336.2
57.5°	267.8	267.8	269.9	267.8
60°	207.8	209.9	209.9	207.8
62.5°	164.9	164.9	164.9	164.9
65°	130.6	130.6	132.8	130.6
67.5°	102.8	100.6	102.8	100.6
70°	77.1	77.1	77.1	77.1
72.5°	60.0	60.0	57.9	57.9
75°	42.9	45.0	42.9	42.9
77.5°	30.0	30.0	30.0	30.0
80°	19.2	19.2	19.2	19.2
82.5°	12.9	12.9	12.9	12.9
85°	8.6	6.4	6.4	6.4
87.5°	4.2	2.1	2.1	2.1
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)