

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: P212818

Luminaire Tested: **LE\_6B30D010 EC6B30509040 6LBSWL11**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212818  
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 EC6B30509040 6LBSWL1  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3062.6 lumens  
Efficiency: N/A  
Efficacy: 109.4 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

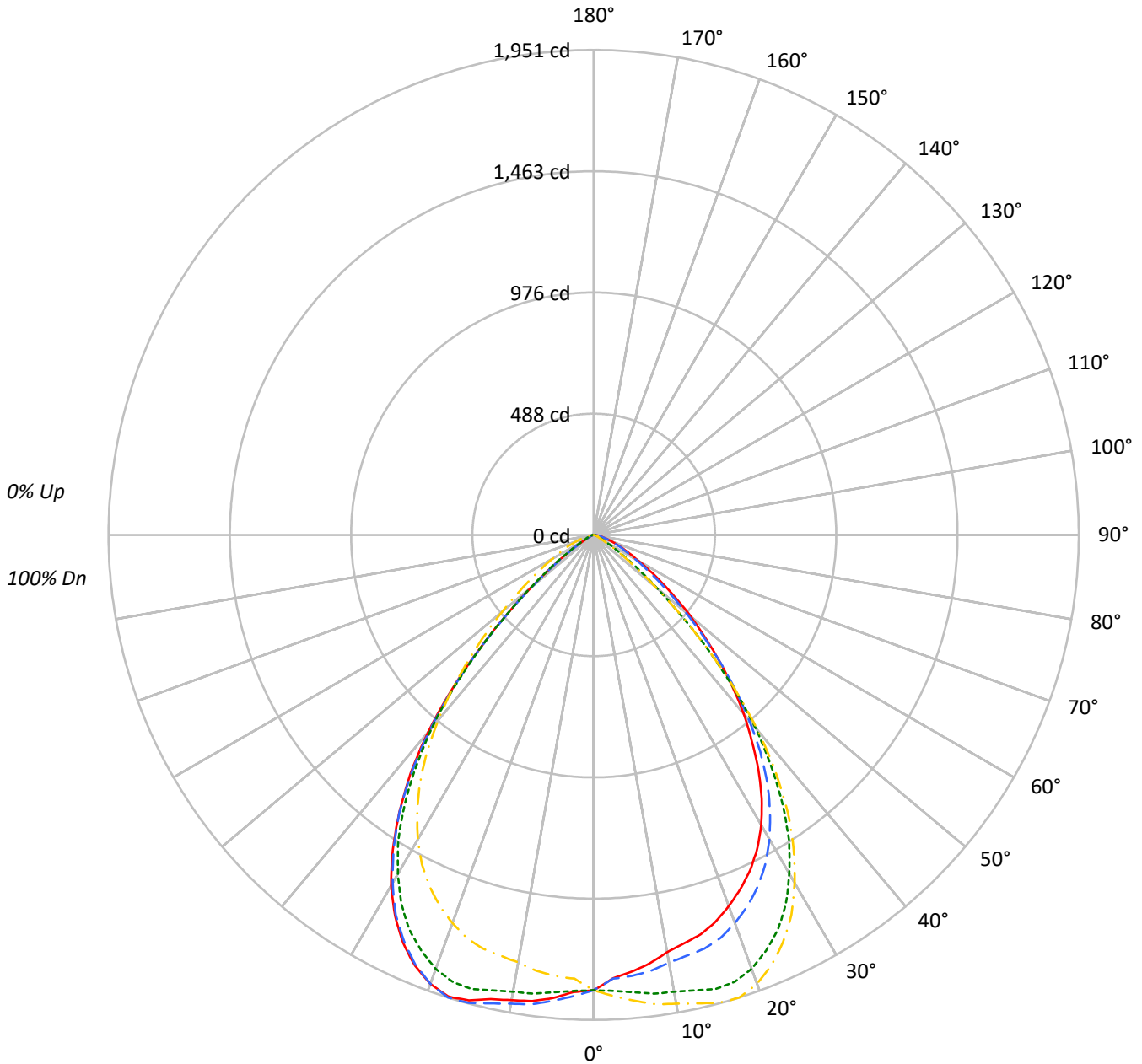
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	100420	100420	100420	100420
5°	97045	101629	102911	101629
10°	94849	103867	105765	103867
15°	94405	107350	110012	107350
20°	92688	108358	112091	108358
25°	90035	106028	109639	106028
30°	85317	99623	103130	99623
35°	77350	88767	91189	88767
40°	67140	72336	74168	72336
45°	55052	49928	50253	49928
50°	43282	28008	27462	28008
55°	31999	13859	12434	13859
60°	22685	6085	4440	6085
65°	16876	3878	2776	3878
70°	12310	3077	2052	3077
75°	9023	2245	1356	2245
80°	6061	2020	663	2020
85°	4026	1321	1321	1321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.4	5.7
10°-20°	519.4	17.0
20°-30°	775.1	25.3
30°-40°	796.3	26.0
40°-50°	515.7	16.8
50°-60°	191.8	6.3
60°-70°	62.9	2.1
70°-80°	22.2	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°	1469.8	48.0
0°-40°	2266.1	74.0
0°-60°	2973.5	97.1
0°-90°	3062.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3062.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1832	1832	1832	1832	1832	
5°	1764	1847	1870	1847	1764	167
15°	1663	1892	1938	1892	1663	468
25°	1488	1753	1813	1753	1488	682
35°	1156	1326	1363	1326	1156	718
45°	710	644	648	644	710	549
55°	335	145	130	145	335	305
65°	130	30	21	30	130	132
75°	43	11	6	11	43	47
85°	6	2	2	2	6	8
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°	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8
2.5°	1784.9	1810.5	1793.4	1804.1	1787.0	1787.0	1821.1	1801.9	1816.9	1801.9	1787.0
5°	1763.5	1795.5	1774.2	1784.9	1770.0	1772.1	1804.1	1789.1	1804.1	1793.4	1780.6
7.5°	1738.0	1770.0	1750.8	1761.4	1746.5	1750.8	1784.9	1770.0	1787.0	1776.4	1767.9
10°	1703.9	1738.0	1720.9	1731.6	1718.8	1720.9	1755.0	1744.4	1759.2	1752.9	1746.5
12.5°	1682.5	1714.5	1695.2	1706.0	1697.5	1701.8	1733.8	1725.1	1744.4	1738.0	1733.8
15°	1663.4	1693.1	1676.1	1686.8	1680.4	1682.5	1716.6	1708.1	1729.4	1725.1	1723.0
17.5°	1631.4	1663.4	1644.1	1656.9	1650.5	1652.6	1686.8	1680.4	1701.8	1701.8	1699.6
20°	1588.8	1620.6	1605.8	1614.2	1610.0	1614.2	1644.1	1639.9	1661.2	1661.2	1661.2
22.5°	1541.8	1573.8	1556.8	1565.2	1561.0	1567.4	1595.1	1595.1	1612.1	1614.2	1616.4
25°	1488.5	1520.5	1503.4	1514.0	1509.8	1514.0	1539.6	1541.8	1556.8	1556.8	1561.0
27.5°	1424.5	1456.5	1439.4	1448.0	1445.9	1448.0	1475.6	1479.9	1488.5	1490.6	1494.9
30°	1347.8	1377.6	1360.5	1369.0	1369.0	1369.0	1396.8	1398.9	1407.4	1409.5	1413.9
32.5°	1258.1	1283.8	1271.0	1279.5	1277.4	1281.6	1300.8	1309.4	1320.0	1317.9	1320.0
35°	1155.8	1183.5	1170.8	1177.1	1179.2	1185.6	1198.5	1209.1	1211.2	1213.4	1217.6
37.5°	1044.9	1072.6	1059.9	1066.2	1068.4	1081.1	1085.4	1096.1	1100.4	1100.4	1100.4
40°	938.2	951.1	940.4	946.9	949.0	959.6	963.9	972.4	976.6	974.5	972.4
42.5°	823.1	833.8	823.1	829.5	829.5	838.0	840.2	850.9	850.9	846.6	840.2
45°	710.1	720.8	710.1	714.4	714.4	722.9	722.9	722.9	727.1	720.8	710.1
47.5°	603.5	614.1	603.5	607.8	605.6	612.0	609.9	612.0	605.6	601.4	588.5
50°	507.5	511.8	507.5	505.4	507.5	511.8	509.6	509.6	501.1	494.8	479.8
52.5°	413.8	420.1	413.8	413.8	413.8	418.0	418.0	415.9	407.2	398.8	383.9
55°	334.8	339.0	336.9	334.8	334.8	339.0	334.8	334.8	326.2	319.9	305.0
57.5°	266.5	268.8	266.5	266.5	266.5	268.8	268.8	264.4	258.0	251.6	241.0
60°	206.9	209.0	209.0	206.9	206.9	211.1	211.1	209.0	202.6	198.4	187.6
62.5°	164.2	164.2	164.2	164.2	164.2	166.4	166.4	166.4	162.1	157.8	149.2
65°	130.1	132.2	130.1	130.1	132.2	134.4	132.2	134.4	130.1	128.0	121.5
67.5°	100.2	102.4	100.2	102.4	102.4	104.5	102.4	104.5	100.2	98.1	93.9
70°	76.8	76.8	76.8	76.8	76.8	78.9	76.8	78.9	76.8	74.6	70.4
72.5°	57.6	57.6	59.8	59.8	57.6	59.8	57.6	57.6	57.6	55.5	53.2
75°	42.6	42.6	44.8	42.6	42.6	42.6	42.6	42.6	40.5	40.5	38.4
77.5°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	27.8	27.8	25.6
80°	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	17.0	17.0
82.5°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	10.6	10.6
85°	6.4	6.4	6.4	8.5	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



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8
2.5°	1804.1	1810.5	1810.5	1804.1	1819.0	1806.2	1831.8	1808.4	1814.8	1836.0	1833.9
5°	1797.6	1806.2	1808.4	1804.1	1823.2	1812.6	1838.1	1814.8	1825.4	1846.8	1846.8
7.5°	1789.1	1799.8	1804.1	1808.4	1825.4	1814.8	1844.6	1821.1	1836.0	1861.6	1859.5
10°	1770.0	1784.9	1793.4	1799.8	1816.9	1810.5	1842.5	1823.2	1836.0	1865.9	1863.8
12.5°	1759.2	1776.4	1789.1	1799.8	1819.0	1814.8	1846.8	1829.6	1846.8	1876.6	1876.6
15°	1750.8	1770.0	1784.9	1804.1	1823.2	1819.0	1853.1	1838.1	1855.2	1891.5	1889.4
17.5°	1729.4	1752.9	1767.9	1789.1	1808.4	1806.2	1842.5	1831.8	1851.0	1885.1	1887.2
20°	1693.1	1714.5	1731.6	1757.1	1778.5	1774.2	1812.6	1801.9	1821.1	1857.4	1859.5
22.5°	1646.2	1667.6	1684.6	1712.4	1731.6	1729.4	1767.9	1757.1	1776.4	1810.5	1812.6
25°	1590.9	1610.0	1627.1	1652.6	1674.0	1674.0	1708.1	1697.5	1718.8	1752.9	1752.9
27.5°	1522.6	1539.6	1554.6	1584.4	1601.5	1601.5	1633.5	1622.8	1644.1	1674.0	1671.9
30°	1439.4	1454.4	1467.1	1492.8	1507.6	1509.8	1537.5	1526.9	1548.1	1573.8	1573.8
32.5°	1339.2	1354.1	1362.6	1394.6	1405.2	1403.1	1424.5	1413.9	1435.1	1462.9	1456.5
35°	1232.6	1239.0	1245.4	1277.4	1281.6	1273.1	1294.4	1283.8	1298.6	1326.4	1322.1
37.5°	1111.0	1113.1	1113.1	1140.9	1143.0	1136.6	1149.4	1136.6	1147.2	1172.9	1170.8
40°	976.6	974.5	972.4	993.8	991.6	978.8	987.4	976.6	991.6	1010.8	1000.1
42.5°	840.2	833.8	825.2	835.9	827.4	816.8	821.0	804.0	814.6	829.5	816.8
45°	705.9	693.0	676.0	678.1	667.5	654.6	648.2	631.2	629.1	644.0	633.4
47.5°	580.0	554.5	539.5	531.0	513.9	503.2	490.5	471.2	462.8	471.2	460.6
50°	467.0	441.4	422.2	403.0	386.0	373.1	351.9	339.0	326.2	328.4	319.9
52.5°	368.9	351.9	319.9	305.0	287.9	273.0	253.8	238.9	223.9	223.9	215.4
55°	292.1	268.8	247.4	226.0	209.0	196.1	177.0	162.1	147.1	145.0	136.5
57.5°	226.0	209.0	185.5	164.2	153.5	140.8	121.5	104.5	96.0	89.6	83.1
60°	174.9	157.8	138.6	121.5	108.8	100.2	81.0	68.2	59.8	55.5	49.0
62.5°	140.8	125.9	108.8	91.8	83.1	74.6	59.8	49.0	40.5	36.2	32.0
65°	113.0	100.2	87.4	74.6	68.2	59.8	49.0	40.5	34.1	29.9	25.6
67.5°	87.4	78.9	68.2	59.8	53.2	46.9	38.4	32.0	27.8	23.5	21.4
70°	66.1	59.8	53.2	44.8	40.5	36.2	29.9	23.5	21.4	19.2	17.0
72.5°	51.1	44.8	38.4	34.1	29.9	27.8	23.5	19.2	17.0	14.9	12.8
75°	34.1	32.0	27.8	23.5	21.4	19.2	17.0	14.9	12.8	10.6	10.6
77.5°	23.5	21.4	19.2	17.0	14.9	14.9	12.8	10.6	8.5	8.5	6.4
80°	14.9	12.8	12.8	10.6	10.6	10.6	8.5	6.4	6.4	6.4	4.2
82.5°	10.6	8.5	8.5	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°	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8
2.5°	1816.9	1836.0	1836.0	1853.1	1855.2	1851.0	1831.8	1831.8	1857.4	1872.2	1846.8
5°	1833.9	1853.1	1853.1	1870.1	1878.8	1872.2	1853.1	1855.2	1880.9	1897.9	1872.2
7.5°	1848.9	1868.0	1872.2	1891.5	1897.9	1891.5	1872.2	1876.6	1904.2	1919.2	1893.6
10°	1855.2	1874.5	1876.6	1897.9	1906.4	1897.9	1883.0	1885.1	1915.0	1925.6	1902.1
12.5°	1870.1	1889.4	1889.4	1912.9	1921.4	1915.0	1895.8	1900.0	1929.9	1940.5	1917.1
15°	1885.1	1904.2	1904.2	1929.9	1940.5	1932.0	1917.1	1919.2	1949.1	1959.8	1940.5
17.5°	1885.1	1902.1	1902.1	1929.9	1940.5	1934.1	1917.1	1919.2	1951.2	1959.8	1940.5
20°	1857.4	1876.6	1872.2	1900.0	1910.8	1904.2	1889.4	1889.4	1921.4	1929.9	1910.8
22.5°	1812.6	1829.6	1825.4	1851.0	1863.8	1855.2	1842.5	1840.4	1872.2	1880.9	1861.6
25°	1750.8	1767.9	1763.5	1789.1	1801.9	1791.2	1776.4	1778.5	1804.1	1816.9	1799.8
27.5°	1678.2	1688.9	1682.5	1708.1	1720.9	1710.2	1695.2	1697.5	1723.0	1731.6	1718.8
30°	1580.1	1588.8	1582.2	1603.6	1612.1	1605.8	1593.0	1593.0	1616.4	1627.1	1614.2
32.5°	1462.9	1469.2	1462.9	1479.9	1497.0	1484.2	1471.4	1471.4	1497.0	1505.5	1490.6
35°	1326.4	1332.8	1328.5	1345.6	1358.4	1341.4	1330.6	1326.4	1360.5	1356.2	1347.8
37.5°	1175.0	1179.2	1166.5	1196.4	1202.8	1183.5	1175.0	1170.8	1200.6	1198.5	1189.9
40°	1004.4	1008.6	1000.1	1021.5	1023.6	1008.6	1002.2	995.9	1025.8	1023.6	1017.1
42.5°	823.1	825.2	814.6	831.6	835.9	821.0	818.9	810.4	838.0	833.8	831.6
45°	635.5	635.5	627.0	639.8	644.0	631.2	627.0	624.9	644.0	644.0	639.8
47.5°	460.6	454.2	443.5	462.8	464.9	456.4	454.2	447.9	467.0	467.0	462.8
50°	315.6	313.5	311.4	315.6	317.8	307.1	313.5	307.1	317.8	317.8	317.8
52.5°	211.1	209.0	204.8	209.0	209.0	202.6	202.6	200.5	209.0	209.0	204.8
55°	132.2	130.1	128.0	130.1	130.1	123.6	128.0	123.6	128.0	128.0	125.9
57.5°	81.0	76.8	76.8	74.6	74.6	70.4	72.5	72.5	72.5	72.5	72.5
60°	46.9	44.8	42.6	42.6	42.6	40.5	40.5	40.5	40.5	40.5	40.5
62.5°	29.9	29.9	27.8	27.8	27.8	27.8	27.8	25.6	27.8	27.8	27.8
65°	25.6	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	17.0	17.0	17.0	17.0	17.0	17.0
70°	17.0	14.9	14.9	14.9	14.9	14.9	12.8	14.9	14.9	12.8	12.8
72.5°	12.8	12.8	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
75°	8.5	8.5	8.5	8.5	8.5	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: P212818

CATALOG NUMBER: LE\_6B30D010 EC6B30509040 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8
2.5°	1876.6	1855.2	1844.6	1865.9	1874.5	1863.8	1855.2	1840.4	1855.2	1863.8	1874.5
5°	1902.1	1883.0	1874.5	1889.4	1902.1	1891.5	1885.1	1870.1	1885.1	1891.5	1902.1
7.5°	1925.6	1906.4	1895.8	1910.8	1925.6	1910.8	1904.2	1891.5	1904.2	1910.8	1925.6
10°	1934.1	1912.9	1904.2	1917.1	1932.0	1917.1	1908.5	1900.0	1908.5	1917.1	1932.0
12.5°	1949.1	1927.8	1917.1	1927.8	1942.6	1927.8	1919.2	1912.9	1919.2	1927.8	1942.6
15°	1970.4	1951.2	1938.4	1949.1	1968.2	1951.2	1940.5	1938.4	1940.5	1951.2	1968.2
17.5°	1970.4	1955.5	1942.6	1951.2	1970.4	1957.6	1942.6	1947.0	1942.6	1957.6	1970.4
20°	1942.6	1927.8	1917.1	1917.1	1944.8	1927.8	1915.0	1921.4	1915.0	1927.8	1944.8
22.5°	1893.6	1880.9	1870.1	1868.0	1895.8	1880.9	1863.8	1876.6	1863.8	1880.9	1895.8
25°	1829.6	1816.9	1808.4	1804.1	1831.8	1814.8	1799.8	1812.6	1799.8	1814.8	1831.8
27.5°	1746.5	1735.9	1727.2	1720.9	1746.5	1731.6	1716.6	1729.4	1716.6	1731.6	1746.5
30°	1639.9	1633.5	1625.0	1616.4	1642.0	1627.1	1612.1	1629.2	1612.1	1627.1	1642.0
32.5°	1516.1	1511.9	1501.2	1492.8	1518.4	1501.2	1490.6	1503.4	1490.6	1501.2	1518.4
35°	1373.2	1366.9	1360.5	1345.6	1373.2	1358.4	1358.4	1362.6	1358.4	1358.4	1373.2
37.5°	1213.4	1209.1	1200.6	1187.8	1211.2	1200.6	1196.4	1209.1	1196.4	1200.6	1211.2
40°	1034.2	1032.1	1025.8	1010.8	1036.4	1025.8	1019.4	1036.4	1019.4	1025.8	1036.4
42.5°	846.6	842.4	835.9	833.8	846.6	838.0	844.5	844.5	844.5	838.0	846.6
45°	652.5	648.2	644.0	635.5	650.4	646.1	644.0	648.2	644.0	646.1	650.4
47.5°	473.4	469.1	464.9	458.5	473.4	467.0	467.0	471.2	467.0	467.0	473.4
50°	317.8	319.9	317.8	313.5	317.8	315.6	317.8	322.0	317.8	315.6	317.8
52.5°	211.1	211.1	206.9	204.8	209.0	206.9	213.2	209.0	213.2	206.9	209.0
55°	128.0	130.1	128.0	125.9	128.0	125.9	132.2	130.1	132.2	125.9	128.0
57.5°	72.5	72.5	74.6	72.5	76.8	74.6	74.6	74.6	74.6	74.6	76.8
60°	40.5	40.5	40.5	40.5	40.5	40.5	42.6	40.5	42.6	40.5	40.5
62.5°	27.8	27.8	27.8	25.6	27.8	25.6	27.8	27.8	27.8	25.6	27.8
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°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
70°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
72.5°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
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: P212818

CATALOG NUMBER: LE\_6B30D010 EC6B30509040 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8
2.5°	1865.9	1844.6	1855.2	1876.6	1846.8	1872.2	1857.4	1831.8	1831.8	1851.0	1855.2
5°	1889.4	1874.5	1883.0	1902.1	1872.2	1897.9	1880.9	1855.2	1853.1	1872.2	1878.8
7.5°	1910.8	1895.8	1906.4	1925.6	1893.6	1919.2	1904.2	1876.6	1872.2	1891.5	1897.9
10°	1917.1	1904.2	1912.9	1934.1	1902.1	1925.6	1915.0	1885.1	1883.0	1897.9	1906.4
12.5°	1927.8	1917.1	1927.8	1949.1	1917.1	1940.5	1929.9	1900.0	1895.8	1915.0	1921.4
15°	1949.1	1938.4	1951.2	1970.4	1940.5	1959.8	1949.1	1919.2	1917.1	1932.0	1940.5
17.5°	1951.2	1942.6	1955.5	1970.4	1940.5	1959.8	1951.2	1919.2	1917.1	1934.1	1940.5
20°	1917.1	1917.1	1927.8	1942.6	1910.8	1929.9	1921.4	1889.4	1889.4	1904.2	1910.8
22.5°	1868.0	1870.1	1880.9	1893.6	1861.6	1880.9	1872.2	1840.4	1842.5	1855.2	1863.8
25°	1804.1	1808.4	1816.9	1829.6	1799.8	1816.9	1804.1	1778.5	1776.4	1791.2	1801.9
27.5°	1720.9	1727.2	1735.9	1746.5	1718.8	1731.6	1723.0	1697.5	1695.2	1710.2	1720.9
30°	1616.4	1625.0	1633.5	1639.9	1614.2	1627.1	1616.4	1593.0	1593.0	1605.8	1612.1
32.5°	1492.8	1501.2	1511.9	1516.1	1490.6	1505.5	1497.0	1471.4	1471.4	1484.2	1497.0
35°	1345.6	1360.5	1366.9	1373.2	1347.8	1356.2	1360.5	1326.4	1330.6	1341.4	1358.4
37.5°	1187.8	1200.6	1209.1	1213.4	1189.9	1198.5	1200.6	1170.8	1175.0	1183.5	1202.8
40°	1010.8	1025.8	1032.1	1034.2	1017.1	1023.6	1025.8	995.9	1002.2	1008.6	1023.6
42.5°	833.8	835.9	842.4	846.6	831.6	833.8	838.0	810.4	818.9	821.0	835.9
45°	635.5	644.0	648.2	652.5	639.8	644.0	644.0	624.9	627.0	631.2	644.0
47.5°	458.5	464.9	469.1	473.4	462.8	467.0	467.0	447.9	454.2	456.4	464.9
50°	313.5	317.8	319.9	317.8	317.8	317.8	317.8	307.1	313.5	307.1	317.8
52.5°	204.8	206.9	211.1	211.1	204.8	209.0	209.0	200.5	202.6	202.6	209.0
55°	125.9	128.0	130.1	128.0	125.9	128.0	128.0	123.6	128.0	123.6	130.1
57.5°	72.5	74.6	72.5	72.5	72.5	72.5	72.5	72.5	72.5	70.4	74.6
60°	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	42.6
62.5°	25.6	27.8	27.8	27.8	27.8	27.8	27.8	25.6	27.8	27.8	27.8
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°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	19.2
70°	12.8	12.8	12.8	12.8	12.8	12.8	14.9	14.9	12.8	14.9	14.9
72.5°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
75°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	8.5
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: P212818

CATALOG NUMBER: LE\_6B30D010 EC6B30509040 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8
2.5°	1853.1	1836.0	1836.0	1816.9	1833.9	1836.0	1814.8	1808.4	1831.8	1806.2	1819.0
5°	1870.1	1853.1	1853.1	1833.9	1846.8	1846.8	1825.4	1814.8	1838.1	1812.6	1823.2
7.5°	1891.5	1872.2	1868.0	1848.9	1859.5	1861.6	1836.0	1821.1	1844.6	1814.8	1825.4
10°	1897.9	1876.6	1874.5	1855.2	1863.8	1865.9	1836.0	1823.2	1842.5	1810.5	1816.9
12.5°	1912.9	1889.4	1889.4	1870.1	1876.6	1876.6	1846.8	1829.6	1846.8	1814.8	1819.0
15°	1929.9	1904.2	1904.2	1885.1	1889.4	1891.5	1855.2	1838.1	1853.1	1819.0	1823.2
17.5°	1929.9	1902.1	1902.1	1885.1	1887.2	1885.1	1851.0	1831.8	1842.5	1806.2	1808.4
20°	1900.0	1872.2	1876.6	1857.4	1859.5	1857.4	1821.1	1801.9	1812.6	1774.2	1778.5
22.5°	1851.0	1825.4	1829.6	1812.6	1812.6	1810.5	1776.4	1757.1	1767.9	1729.4	1731.6
25°	1789.1	1763.5	1767.9	1750.8	1752.9	1752.9	1718.8	1697.5	1708.1	1674.0	1674.0
27.5°	1708.1	1682.5	1688.9	1678.2	1671.9	1674.0	1644.1	1622.8	1633.5	1601.5	1601.5
30°	1603.6	1582.2	1588.8	1580.1	1573.8	1573.8	1548.1	1526.9	1537.5	1509.8	1507.6
32.5°	1479.9	1462.9	1469.2	1462.9	1456.5	1462.9	1435.1	1413.9	1424.5	1403.1	1405.2
35°	1345.6	1328.5	1332.8	1326.4	1322.1	1326.4	1298.6	1283.8	1294.4	1273.1	1281.6
37.5°	1196.4	1166.5	1179.2	1175.0	1170.8	1172.9	1147.2	1136.6	1149.4	1136.6	1143.0
40°	1021.5	1000.1	1008.6	1004.4	1000.1	1010.8	991.6	976.6	987.4	978.8	991.6
42.5°	831.6	814.6	825.2	823.1	816.8	829.5	814.6	804.0	821.0	816.8	827.4
45°	639.8	627.0	635.5	635.5	633.4	644.0	629.1	631.2	648.2	654.6	667.5
47.5°	462.8	443.5	454.2	460.6	460.6	471.2	462.8	471.2	490.5	503.2	513.9
50°	315.6	311.4	313.5	315.6	319.9	328.4	326.2	339.0	351.9	373.1	386.0
52.5°	209.0	204.8	209.0	211.1	215.4	223.9	223.9	238.9	253.8	273.0	287.9
55°	130.1	128.0	130.1	132.2	136.5	145.0	147.1	162.1	177.0	196.1	209.0
57.5°	74.6	76.8	76.8	81.0	83.1	89.6	96.0	104.5	121.5	140.8	153.5
60°	42.6	42.6	44.8	46.9	49.0	55.5	59.8	68.2	81.0	100.2	108.8
62.5°	27.8	27.8	29.9	29.9	32.0	36.2	40.5	49.0	59.8	74.6	83.1
65°	23.5	23.5	23.5	25.6	25.6	29.9	34.1	40.5	49.0	59.8	68.2
67.5°	19.2	19.2	19.2	21.4	21.4	23.5	27.8	32.0	38.4	46.9	53.2
70°	14.9	14.9	14.9	17.0	17.0	19.2	21.4	23.5	29.9	36.2	40.5
72.5°	10.6	10.6	12.8	12.8	12.8	14.9	17.0	19.2	23.5	27.8	29.9
75°	8.5	8.5	8.5	8.5	10.6	10.6	12.8	14.9	17.0	19.2	21.4
77.5°	4.2	4.2	6.4	6.4	6.4	8.5	8.5	10.6	12.8	14.9	14.9
80°	4.2	4.2	4.2	4.2	4.2	6.4	6.4	6.4	8.5	10.6	10.6
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: P212818

CATALOG NUMBER: LE\_6B30D010 EC6B30509040 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8
2.5°	1804.1	1810.5	1810.5	1804.1	1787.0	1801.9	1816.9	1801.9	1821.1	1787.0	1787.0
5°	1804.1	1808.4	1806.2	1797.6	1780.6	1793.4	1804.1	1789.1	1804.1	1772.1	1770.0
7.5°	1808.4	1804.1	1799.8	1789.1	1767.9	1776.4	1787.0	1770.0	1784.9	1750.8	1746.5
10°	1799.8	1793.4	1784.9	1770.0	1746.5	1752.9	1759.2	1744.4	1755.0	1720.9	1718.8
12.5°	1799.8	1789.1	1776.4	1759.2	1733.8	1738.0	1744.4	1725.1	1733.8	1701.8	1697.5
15°	1804.1	1784.9	1770.0	1750.8	1723.0	1725.1	1729.4	1708.1	1716.6	1682.5	1680.4
17.5°	1789.1	1767.9	1752.9	1729.4	1699.6	1701.8	1701.8	1680.4	1686.8	1652.6	1650.5
20°	1757.1	1731.6	1714.5	1693.1	1661.2	1661.2	1661.2	1639.9	1644.1	1614.2	1610.0
22.5°	1712.4	1684.6	1667.6	1646.2	1616.4	1614.2	1612.1	1595.1	1595.1	1567.4	1561.0
25°	1652.6	1627.1	1610.0	1590.9	1561.0	1556.8	1556.8	1541.8	1539.6	1514.0	1509.8
27.5°	1584.4	1554.6	1539.6	1522.6	1494.9	1490.6	1488.5	1479.9	1475.6	1448.0	1445.9
30°	1492.8	1467.1	1454.4	1439.4	1413.9	1409.5	1407.4	1398.9	1396.8	1369.0	1369.0
32.5°	1394.6	1362.6	1354.1	1339.2	1320.0	1317.9	1320.0	1309.4	1300.8	1281.6	1277.4
35°	1277.4	1245.4	1239.0	1232.6	1217.6	1213.4	1211.2	1209.1	1198.5	1185.6	1179.2
37.5°	1140.9	1113.1	1113.1	1111.0	1100.4	1100.4	1100.4	1096.1	1085.4	1081.1	1068.4
40°	993.8	972.4	974.5	976.6	972.4	974.5	976.6	972.4	963.9	959.6	949.0
42.5°	835.9	825.2	833.8	840.2	840.2	846.6	850.9	850.9	840.2	838.0	829.5
45°	678.1	676.0	693.0	705.9	710.1	720.8	727.1	722.9	722.9	722.9	714.4
47.5°	531.0	539.5	554.5	580.0	588.5	601.4	605.6	612.0	609.9	612.0	605.6
50°	403.0	422.2	441.4	467.0	479.8	494.8	501.1	509.6	509.6	511.8	507.5
52.5°	305.0	319.9	351.9	368.9	383.9	398.8	407.2	415.9	418.0	418.0	413.8
55°	226.0	247.4	268.8	292.1	305.0	319.9	326.2	334.8	334.8	339.0	334.8
57.5°	164.2	185.5	209.0	226.0	241.0	251.6	258.0	264.4	268.8	268.8	266.5
60°	121.5	138.6	157.8	174.9	187.6	198.4	202.6	209.0	211.1	211.1	206.9
62.5°	91.8	108.8	125.9	140.8	149.2	157.8	162.1	166.4	166.4	166.4	164.2
65°	74.6	87.4	100.2	113.0	121.5	128.0	130.1	134.4	132.2	134.4	132.2
67.5°	59.8	68.2	78.9	87.4	93.9	98.1	100.2	104.5	102.4	104.5	102.4
70°	44.8	53.2	59.8	66.1	70.4	74.6	76.8	78.9	76.8	78.9	76.8
72.5°	34.1	38.4	44.8	51.1	53.2	55.5	57.6	57.6	57.6	59.8	57.6
75°	23.5	27.8	32.0	34.1	38.4	40.5	40.5	42.6	42.6	42.6	42.6
77.5°	17.0	19.2	21.4	23.5	25.6	27.8	27.8	29.9	29.9	29.9	29.9
80°	10.6	12.8	12.8	14.9	17.0	17.0	19.2	19.2	19.2	19.2	19.2
82.5°	6.4	8.5	8.5	10.6	10.6	10.6	12.8	12.8	12.8	12.8	12.8
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: P212818

CATALOG NUMBER: LE\_6B30D010 EC6B30509040 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	345°	350°	355°	360°
0°	1831.8	1831.8	1831.8	1831.8
2.5°	1804.1	1793.4	1810.5	1784.9
5°	1784.9	1774.2	1795.5	1763.5
7.5°	1761.4	1750.8	1770.0	1738.0
10°	1731.6	1720.9	1738.0	1703.9
12.5°	1706.0	1695.2	1714.5	1682.5
15°	1686.8	1676.1	1693.1	1663.4
17.5°	1656.9	1644.1	1663.4	1631.4
20°	1614.2	1605.8	1620.6	1588.8
22.5°	1565.2	1556.8	1573.8	1541.8
25°	1514.0	1503.4	1520.5	1488.5
27.5°	1448.0	1439.4	1456.5	1424.5
30°	1369.0	1360.5	1377.6	1347.8
32.5°	1279.5	1271.0	1283.8	1258.1
35°	1177.1	1170.8	1183.5	1155.8
37.5°	1066.2	1059.9	1072.6	1044.9
40°	946.9	940.4	951.1	938.2
42.5°	829.5	823.1	833.8	823.1
45°	714.4	710.1	720.8	710.1
47.5°	607.8	603.5	614.1	603.5
50°	505.4	507.5	511.8	507.5
52.5°	413.8	413.8	420.1	413.8
55°	334.8	336.9	339.0	334.8
57.5°	266.5	266.5	268.8	266.5
60°	206.9	209.0	209.0	206.9
62.5°	164.2	164.2	164.2	164.2
65°	130.1	130.1	132.2	130.1
67.5°	102.4	100.2	102.4	100.2
70°	76.8	76.8	76.8	76.8
72.5°	59.8	59.8	57.6	57.6
75°	42.6	44.8	42.6	42.6
77.5°	29.9	29.9	29.9	29.9
80°	19.2	19.2	19.2	19.2
82.5°	12.8	12.8	12.8	12.8
85°	8.5	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



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

























(END OF REPORT)