

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: P252172

Luminaire Tested: **LE_6B30D010 EC6B30509024 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252172
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 EC6B30509024 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3397.5 lumens
Efficiency: N/A
Efficacy: 121.3 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

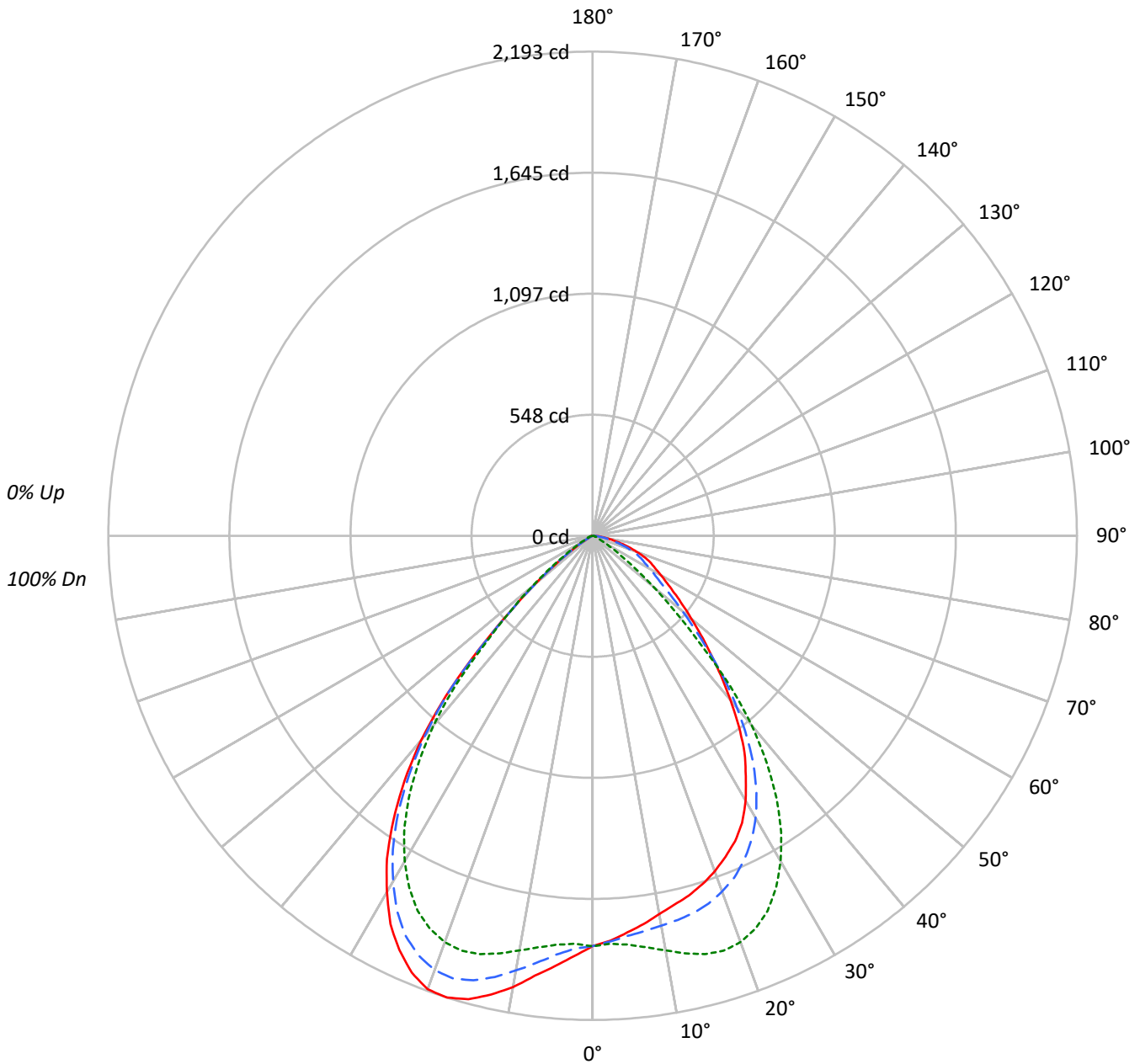
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	121269	121269	121269
5°	118117	121733	128124
10°	115243	126307	137496
15°	113903	132504	146782
20°	112264	135953	151741
25°	109878	134958	149016
30°	104412	128248	140286
35°	95533	115627	125248
40°	82628	95488	102752
45°	69678	62629	67214
50°	59162	36244	34093
55°	51344	17391	13137
60°	46373	8116	3249
65°	44984	4662	1096
70°	40344	3720	1030
75°	33147	2672	454
80°	24721	1315	0
85°	21259	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.5	5.3
10°-20°	547.2	16.1
20°-30°	836.0	24.6
30°-40°	874.4	25.7
40°-50°	567.2	16.7
50°-60°	225.2	6.6
60°-70°	106.8	3.1
70°-80°	50.8	1.5
80°-90°	10.4	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°	1562.7	46.0
0°-40°	2437.1	71.7
0°-60°	3229.5	95.1
0°-90°	3397.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3397.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1859	1859	1859	1859	1859	
5°	1804	1820	1859	1905	1956	170
15°	1686	1768	1962	2084	2173	475
25°	1526	1622	1875	2001	2070	699
35°	1200	1272	1452	1537	1573	742
45°	755	748	679	720	728	588
55°	451	384	153	119	116	409
65°	291	242	30	7	7	285
75°	132	107	11	4	2	142
85°	28	18	0	0	0	33
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°	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8
2.5°	1835.6	1839.1	1819.6	1814.2	1828.5	1833.9	1835.6	1830.2	1832.0	1839.1	1839.1
5°	1803.6	1807.1	1789.4	1784.1	1798.2	1801.9	1807.1	1805.4	1810.8	1821.4	1819.6
7.5°	1773.4	1778.8	1759.2	1752.1	1769.9	1778.8	1782.2	1782.2	1789.4	1803.6	1805.4
10°	1739.6	1746.8	1729.0	1725.4	1745.0	1753.9	1755.6	1759.2	1769.9	1789.4	1793.0
12.5°	1711.2	1718.4	1705.9	1700.5	1721.9	1730.8	1734.4	1741.4	1753.9	1778.8	1782.2
15°	1686.4	1691.6	1677.5	1673.9	1695.2	1705.9	1707.6	1718.4	1734.4	1762.8	1768.1
17.5°	1654.4	1657.9	1647.2	1643.8	1665.0	1675.6	1677.5	1689.9	1709.4	1737.9	1746.8
20°	1617.0	1620.6	1609.9	1606.4	1627.8	1640.1	1641.9	1652.6	1675.6	1705.9	1714.8
22.5°	1572.6	1579.8	1567.2	1563.8	1585.0	1595.8	1601.0	1609.9	1633.0	1663.2	1675.6
25°	1526.4	1526.4	1517.5	1515.8	1535.2	1547.8	1546.0	1558.4	1581.5	1611.8	1622.4
27.5°	1466.0	1464.2	1455.4	1453.5	1474.9	1485.5	1482.0	1494.4	1515.8	1546.0	1556.6
30°	1386.0	1389.6	1377.1	1373.6	1391.4	1409.1	1407.4	1419.8	1441.1	1469.5	1476.6
32.5°	1290.1	1293.6	1291.9	1286.5	1302.5	1311.4	1316.8	1325.6	1343.4	1373.6	1380.8
35°	1199.5	1194.1	1187.0	1187.0	1203.0	1217.2	1211.9	1222.5	1240.4	1270.5	1272.2
37.5°	1087.5	1085.8	1082.1	1078.6	1096.4	1100.0	1101.8	1108.9	1124.9	1149.8	1146.1
40°	970.2	972.0	970.2	963.1	973.8	988.0	986.2	989.8	1004.0	1021.8	1016.4
42.5°	860.0	860.0	860.0	853.0	865.4	872.5	876.0	874.2	877.9	893.8	886.8
45°	755.2	757.0	755.2	753.4	755.2	758.8	755.2	753.4	753.4	758.8	748.1
47.5°	664.6	664.6	659.2	653.9	659.2	661.0	655.8	650.4	648.6	646.9	629.0
50°	582.9	581.1	579.2	570.4	575.8	577.5	570.4	566.9	559.8	550.9	529.5
52.5°	511.8	510.0	508.2	499.4	502.9	504.6	497.5	490.5	481.5	474.5	447.8
55°	451.4	449.6	449.6	444.2	440.6	444.2	437.1	431.8	419.4	410.5	383.9
57.5°	399.9	399.9	396.2	390.9	392.8	392.8	385.6	378.5	367.9	357.1	335.9
60°	355.4	355.4	355.4	350.0	350.0	350.0	346.5	339.4	330.5	319.9	298.5
62.5°	319.9	319.9	318.1	312.8	314.5	314.5	311.0	303.9	295.0	287.9	266.5
65°	291.4	291.4	291.4	286.1	286.1	287.9	284.4	277.2	270.1	261.2	241.6
67.5°	255.9	254.1	254.1	250.5	252.4	254.1	250.5	245.2	236.4	231.0	213.2
70°	211.5	213.2	215.0	209.6	211.5	211.5	209.6	204.4	199.0	193.8	177.8
72.5°	172.4	172.4	170.6	168.8	168.8	170.6	167.0	161.8	158.1	154.6	142.1
75°	131.5	129.8	131.5	128.0	128.0	128.0	124.4	122.6	120.9	115.5	106.6
77.5°	96.0	94.1	94.1	90.6	92.4	92.4	90.6	87.1	83.5	81.8	74.6
80°	65.8	65.8	65.8	64.0	64.0	62.2	62.2	60.4	56.9	55.1	51.5
82.5°	44.4	44.4	44.4	42.6	42.6	42.6	40.9	39.1	37.4	35.5	32.0
85°	28.4	28.4	28.4	26.6	26.6	26.6	24.9	24.9	23.1	21.4	17.8
87.5°	16.0	16.0	16.0	14.2	14.2	14.2	14.2	14.2	12.5	10.6	8.9
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°	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8
2.5°	1851.6	1826.8	1842.8	1842.8	1837.4	1851.6	1860.5	1867.6	1865.8	1849.9	1848.0
5°	1837.4	1816.0	1833.9	1835.6	1830.2	1849.9	1862.2	1871.1	1872.9	1858.8	1860.5
7.5°	1826.8	1809.0	1832.0	1839.1	1837.4	1855.1	1869.4	1883.6	1890.6	1880.0	1881.8
10°	1821.4	1807.1	1832.0	1842.8	1844.5	1864.0	1885.4	1904.9	1913.8	1906.6	1912.0
12.5°	1814.2	1805.4	1833.9	1849.9	1856.9	1876.5	1903.1	1926.2	1940.5	1936.9	1947.5
15°	1807.1	1800.0	1833.9	1856.9	1865.8	1883.6	1913.8	1947.5	1963.5	1961.8	1976.0
17.5°	1789.4	1787.6	1823.1	1848.0	1860.5	1881.8	1910.2	1951.1	1967.1	1970.6	1988.4
20°	1761.0	1761.0	1800.0	1826.8	1840.9	1860.5	1896.0	1935.1	1954.6	1958.2	1977.8
22.5°	1721.9	1725.4	1762.8	1789.4	1810.8	1825.0	1862.2	1903.1	1920.9	1926.2	1947.5
25°	1670.4	1673.9	1709.4	1736.1	1759.2	1775.1	1810.8	1848.0	1869.4	1874.8	1890.6
27.5°	1602.9	1609.9	1643.8	1670.4	1689.9	1700.5	1737.9	1777.0	1793.0	1798.2	1814.2
30°	1524.6	1526.4	1560.1	1583.2	1602.9	1611.8	1643.8	1684.5	1697.0	1702.4	1725.4
32.5°	1428.6	1426.9	1458.9	1480.2	1496.2	1506.9	1540.6	1567.2	1579.8	1588.6	1601.0
35°	1313.1	1311.4	1334.5	1359.4	1371.9	1375.4	1409.1	1437.5	1444.6	1451.8	1467.8
37.5°	1183.5	1183.5	1203.0	1215.5	1229.6	1235.0	1251.0	1283.0	1295.4	1293.6	1306.1
40°	1046.6	1039.5	1053.8	1066.1	1069.8	1071.5	1087.5	1112.4	1121.2	1121.2	1130.1
42.5°	902.8	892.0	893.8	900.9	904.5	892.0	902.8	918.8	913.4	920.5	922.2
45°	749.9	733.9	726.8	710.8	714.4	701.9	694.8	698.4	696.6	678.8	682.4
47.5°	625.5	597.0	584.6	561.5	556.2	542.0	533.1	517.1	502.9	502.9	494.0
50°	520.6	492.2	467.4	440.6	431.8	419.4	399.9	378.5	367.9	357.1	348.2
52.5°	437.1	406.9	376.8	348.2	335.9	319.9	293.2	271.9	252.4	241.6	231.0
55°	369.6	335.9	303.9	273.6	257.6	241.6	215.0	190.1	167.0	152.9	143.9
57.5°	318.1	286.1	252.4	220.4	206.1	188.4	159.9	133.2	112.0	96.0	87.1
60°	280.8	248.8	218.6	184.8	170.6	152.9	122.6	97.8	76.4	62.2	51.5
62.5°	248.8	220.4	188.4	158.1	143.9	126.1	97.8	72.9	53.2	39.1	30.2
65°	225.6	197.2	170.6	140.4	128.0	110.1	83.5	60.4	42.6	30.2	21.4
67.5°	199.0	174.1	147.5	122.6	110.1	96.0	71.1	51.5	35.5	24.9	17.8
70°	167.0	147.5	124.4	101.2	92.4	80.0	58.6	42.6	28.4	19.5	14.2
72.5°	133.2	117.2	99.5	81.8	74.6	62.2	48.0	33.8	21.4	14.2	10.6
75°	101.2	88.9	74.6	62.2	55.1	48.0	35.5	24.9	16.0	10.6	7.1
77.5°	69.2	64.0	53.2	42.6	39.1	33.8	23.1	16.0	10.6	7.1	3.5
80°	48.0	42.6	35.5	28.4	24.9	21.4	14.2	10.6	5.4	3.5	1.8
82.5°	30.2	24.9	21.4	17.8	16.0	12.5	8.9	5.4	3.5	1.8	1.8
85°	16.0	14.2	12.5	8.9	8.9	7.1	5.4	3.5	1.8	0.0	0.0
87.5°	8.9	7.1	5.4	3.5	3.5	1.8	1.8	1.8	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°	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8
2.5°	1869.4	1869.4	1867.6	1888.9	1864.0	1888.9	1876.5	1888.9	1871.1	1869.4	1871.1
5°	1883.6	1888.9	1890.6	1910.2	1887.1	1917.4	1906.6	1917.4	1904.9	1908.5	1913.8
7.5°	1912.0	1920.9	1919.1	1944.0	1920.9	1954.6	1947.5	1963.5	1951.1	1954.6	1961.8
10°	1944.0	1954.6	1956.4	1981.2	1960.0	2000.9	1992.0	2009.8	1999.1	2004.4	2013.2
12.5°	1981.2	1993.8	1995.5	2024.0	2000.9	2043.5	2038.1	2056.0	2047.0	2052.4	2063.0
15°	2009.8	2027.5	2031.1	2059.5	2034.6	2079.0	2075.5	2098.6	2084.4	2093.2	2102.1
17.5°	2024.0	2040.0	2047.0	2073.8	2052.4	2096.9	2093.2	2112.8	2102.1	2111.0	2121.8
20°	2015.1	2034.6	2040.0	2066.6	2045.2	2089.8	2084.4	2103.9	2093.2	2100.4	2111.0
22.5°	1983.1	2002.6	2009.8	2034.6	2015.1	2056.0	2054.1	2071.9	2057.8	2066.6	2075.5
25°	1926.2	1947.5	1951.1	1974.2	1952.9	1995.5	1992.0	2011.5	2000.9	2006.2	2018.6
27.5°	1844.5	1869.4	1874.8	1894.2	1878.2	1913.8	1913.8	1929.8	1917.4	1917.4	1929.8
30°	1746.8	1771.6	1775.1	1791.1	1777.0	1809.0	1810.8	1826.8	1807.1	1817.9	1819.6
32.5°	1627.8	1643.8	1654.4	1668.6	1647.2	1688.1	1682.8	1695.2	1684.5	1684.5	1693.5
35°	1483.8	1503.2	1508.6	1526.4	1508.6	1540.6	1540.6	1547.8	1537.1	1537.1	1551.2
37.5°	1327.4	1341.6	1343.4	1361.1	1346.9	1373.6	1371.9	1377.1	1366.5	1373.6	1373.6
40°	1144.4	1155.0	1158.6	1167.5	1165.6	1185.2	1183.5	1187.0	1181.6	1183.5	1187.0
42.5°	931.1	945.4	952.5	959.5	948.9	975.5	970.2	975.5	973.8	975.5	980.9
45°	685.9	696.6	701.9	703.6	700.1	716.1	728.5	717.9	719.6	716.1	723.2
47.5°	495.8	497.5	494.0	504.6	495.8	502.9	506.4	508.2	497.5	495.8	502.9
50°	339.4	348.2	335.9	341.1	339.4	346.5	343.0	344.8	334.1	339.4	335.9
52.5°	225.6	223.9	220.4	222.1	218.6	218.6	218.6	222.1	215.0	211.5	207.9
55°	136.9	133.2	126.1	124.4	124.4	126.1	122.6	119.0	119.0	117.2	117.2
57.5°	80.0	74.6	71.1	69.2	65.8	64.0	62.2	62.2	58.6	58.6	58.6
60°	44.4	39.1	35.5	32.0	32.0	30.2	28.4	26.6	26.6	26.6	24.9
62.5°	23.1	19.5	16.0	14.2	14.2	12.5	10.6	10.6	10.6	10.6	8.9
65°	16.0	12.5	10.6	8.9	8.9	7.1	7.1	7.1	7.1	7.1	7.1
67.5°	12.5	10.6	8.9	7.1	7.1	7.1	5.4	5.4	5.4	5.4	5.4
70°	10.6	7.1	7.1	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
72.5°	7.1	7.1	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
75°	5.4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
80°	1.8	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: P252172

CATALOG NUMBER: LE_6B30D010 EC6B30509024 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8
2.5°	1887.1	1885.4	1887.1	1890.6	1883.6	1904.9	1894.2	1904.9
5°	1928.0	1929.8	1931.5	1936.9	1928.0	1954.6	1940.5	1956.4
7.5°	1981.2	1983.1	1984.9	1990.2	1984.9	2011.5	1995.5	2009.8
10°	2036.4	2040.0	2040.0	2048.9	2043.5	2068.4	2057.8	2075.5
12.5°	2087.9	2091.5	2095.0	2100.4	2096.9	2123.5	2114.6	2128.8
15°	2128.8	2135.9	2137.6	2144.8	2141.2	2169.6	2159.0	2173.2
17.5°	2148.4	2155.5	2155.5	2164.4	2160.8	2191.0	2176.8	2192.8
20°	2137.6	2143.0	2144.8	2153.6	2150.1	2180.4	2166.1	2185.6
22.5°	2103.9	2105.8	2107.5	2116.4	2114.6	2141.2	2128.8	2141.2
25°	2041.8	2047.0	2045.2	2052.4	2052.4	2073.8	2059.5	2070.1
27.5°	1952.9	1958.2	1958.2	1967.1	1960.0	1981.2	1967.1	1983.1
30°	1844.5	1849.9	1846.2	1853.4	1846.2	1867.6	1856.9	1862.2
32.5°	1714.8	1714.8	1716.5	1718.4	1714.8	1734.4	1723.6	1734.4
35°	1560.1	1563.8	1565.5	1567.2	1563.8	1578.0	1565.5	1572.6
37.5°	1386.0	1394.9	1393.1	1394.9	1389.6	1407.4	1396.8	1400.2
40°	1199.5	1199.5	1197.6	1201.2	1195.9	1210.1	1203.0	1206.5
42.5°	982.6	988.0	980.9	989.8	975.5	995.1	988.0	982.6
45°	737.5	730.4	728.5	730.4	725.0	726.8	732.1	728.5
47.5°	502.9	502.9	499.4	494.0	501.1	502.9	495.8	495.8
50°	337.6	337.6	334.1	332.2	335.9	334.1	330.5	335.9
52.5°	215.0	207.9	207.9	211.5	207.9	204.4	209.6	206.1
55°	117.2	113.8	113.8	117.2	113.8	113.8	112.0	115.5
57.5°	56.9	58.6	56.9	56.9	56.9	56.9	55.1	56.9
60°	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
62.5°	10.6	10.6	8.9	8.9	8.9	8.9	8.9	8.9
65°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
67.5°	5.4	5.4	5.4	5.4	5.4	7.1	5.4	5.4
70°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
72.5°	5.4	5.4	7.1	7.1	7.1	7.1	7.1	7.1
75°	3.5	3.5	3.5	1.8	1.8	1.8	1.8	1.8
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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)