

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: P252691

Luminaire Tested: **LE_6B30D010 EC6B30508050 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B30D010 EC6B30508050 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3570.0 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

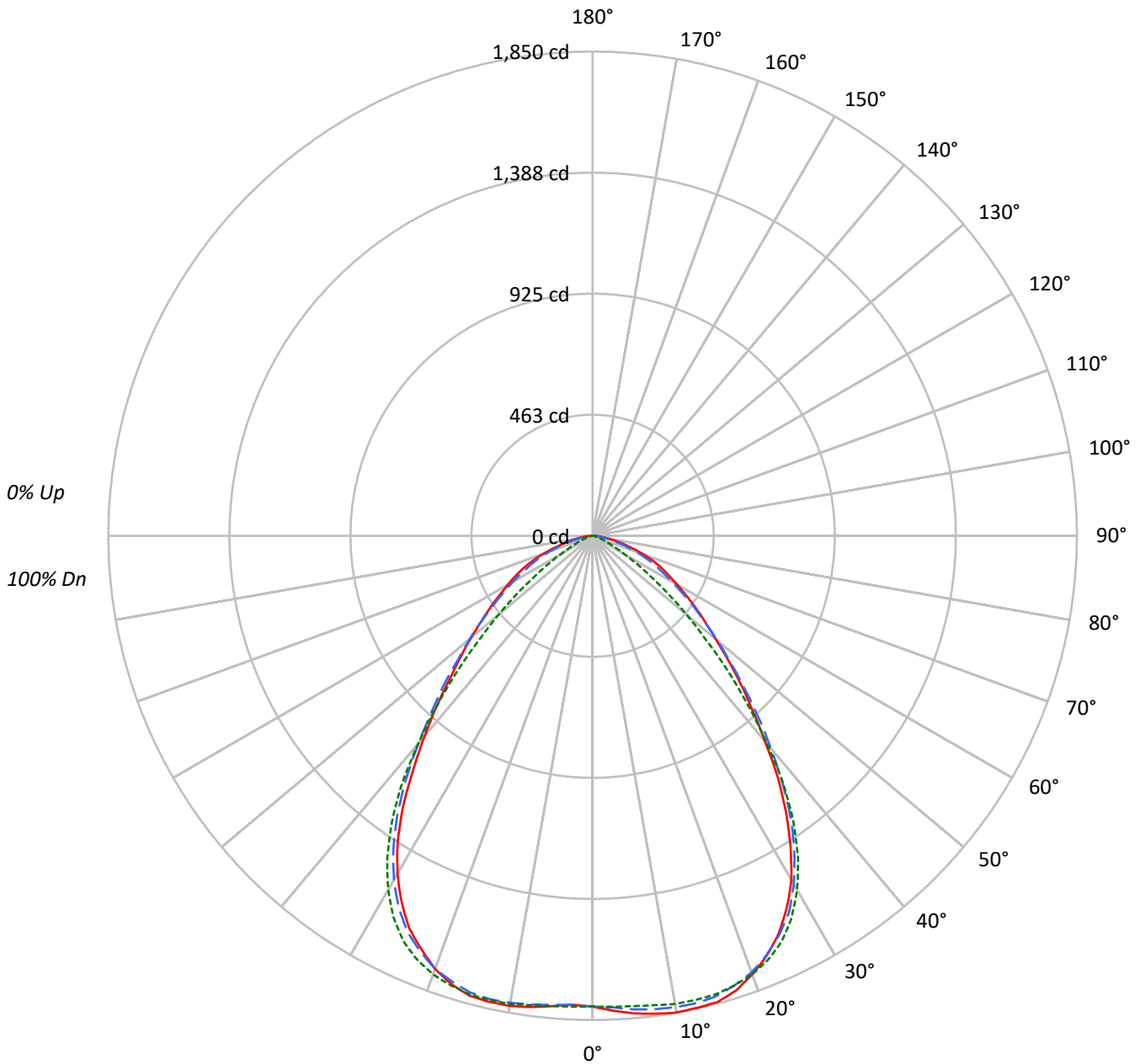
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252691

CATALOG NUMBER: LE_6B30D010 EC6B30508050 6LBDW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252691

CATALOG NUMBER: LE_6B30D010 EC6B30508050 6LBDW1H

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	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89								
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78								
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68								
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61								
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54								
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48								
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44								
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40								
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36								
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	117342	117342	117342
5°	119964	118131	118131
10°	122524	120338	120841
15°	124575	122515	122859
20°	123817	123817	122227
25°	120870	123066	119214
30°	114416	117671	112307
35°	102518	106572	100503
40°	87107	88180	84927
45°	73710	67362	71126
50°	62227	47510	61456
55°	54699	30665	54119
60°	48461	18254	48800
65°	44768	10991	44768
70°	38818	6314	37845
75°	30778	3831	28862
80°	22918	2855	21979
85°	20959	1871	19088



TEST NUMBER: P252691

CATALOG NUMBER: LE_6B30D010 EC6B30508050 6LBDW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.2	4.9
10°-20°	512.5	14.4
20°-30°	770.8	21.6
30°-40°	810.4	22.7
40°-50°	605.4	17.0
50°-60°	376.9	10.6
60°-70°	214.3	6.0
70°-80°	88.3	2.5
80°-90°	18.2	0.5
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°	1456.5	40.8
0°-40°	2266.8	63.5
0°-60°	3249.1	91.0
0°-90°	3570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3570.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1799	1799	1799	1799	1799	
5°	1832	1816	1804	1799	1804	175
15°	1844	1822	1814	1806	1819	519
25°	1679	1684	1710	1672	1656	769
35°	1287	1320	1338	1300	1262	799
45°	799	817	730	801	771	619
55°	481	471	270	463	476	432
65°	290	260	71	260	290	286
75°	122	97	15	94	114	133
85°	28	18	2	15	26	31
90°	0	0	0	0	0	



TEST NUMBER: P252691

CATALOG NUMBER: LE_6B30D010 EC6B30508050 6LBDW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6
2.5°	1816.5	1813.9	1816.5	1811.4	1808.9	1808.9	1811.4	1806.2	1803.8	1806.2	1803.8
5°	1831.8	1826.6	1829.1	1826.6	1821.5	1821.5	1824.1	1816.5	1816.5	1819.0	1816.5
7.5°	1841.9	1841.9	1841.9	1836.8	1834.2	1831.8	1836.8	1829.1	1826.6	1826.6	1824.1
10°	1849.5	1847.0	1849.5	1844.4	1839.4	1836.8	1841.9	1836.8	1831.8	1836.8	1829.1
12.5°	1847.0	1847.0	1847.0	1844.4	1839.4	1836.8	1841.9	1834.2	1831.8	1834.2	1829.1
15°	1844.4	1836.8	1839.4	1836.8	1829.1	1829.1	1831.8	1824.1	1819.0	1826.6	1821.5
17.5°	1821.5	1816.5	1819.0	1813.9	1808.9	1806.2	1808.9	1806.2	1801.1	1806.2	1801.1
20°	1783.4	1783.4	1785.9	1780.9	1775.8	1773.2	1778.2	1773.2	1768.1	1775.8	1775.8
22.5°	1737.6	1737.6	1737.6	1735.0	1732.5	1732.5	1732.5	1730.0	1727.4	1732.5	1735.0
25°	1679.1	1676.5	1679.1	1681.6	1679.1	1676.5	1679.1	1679.1	1674.0	1684.1	1684.1
27.5°	1605.2	1605.2	1610.4	1607.9	1607.9	1605.2	1610.4	1610.4	1607.9	1615.5	1623.1
30°	1518.8	1513.8	1518.8	1518.8	1521.4	1521.4	1523.9	1523.9	1523.9	1531.5	1536.6
32.5°	1406.9	1409.4	1417.0	1414.5	1412.0	1419.6	1419.6	1424.6	1427.2	1432.2	1434.9
35°	1287.2	1289.9	1289.9	1292.4	1297.5	1292.4	1305.1	1302.5	1305.1	1315.2	1320.4
37.5°	1160.1	1152.5	1165.1	1160.1	1162.6	1162.6	1167.8	1170.2	1177.9	1190.6	1190.6
40°	1022.8	1025.2	1030.4	1032.9	1035.4	1035.4	1035.4	1043.0	1045.6	1060.9	1058.4
42.5°	903.1	903.1	908.2	910.8	910.8	910.8	910.8	918.4	923.5	928.6	933.6
45°	798.9	791.2	796.2	796.2	801.4	798.9	803.9	809.0	811.5	819.1	816.6
47.5°	699.6	697.1	699.6	702.1	699.6	702.1	704.8	707.2	709.8	709.8	709.8
50°	613.1	613.1	615.6	618.2	618.2	618.2	618.2	620.8	620.8	625.9	620.8
52.5°	541.9	544.4	544.4	541.9	544.4	544.4	547.0	547.0	544.4	544.4	536.8
55°	480.9	478.2	480.9	478.2	480.9	480.9	478.2	478.2	475.8	473.2	470.6
57.5°	422.2	422.2	422.2	422.2	419.8	422.2	419.8	417.2	417.2	412.1	404.5
60°	371.4	371.4	371.4	371.4	371.4	368.9	371.4	368.9	363.8	358.8	348.5
62.5°	328.1	325.6	328.1	325.6	325.6	323.1	323.1	320.5	315.5	310.4	300.2
65°	290.0	292.6	290.0	290.0	287.5	284.9	284.9	282.4	274.8	269.6	259.5
67.5°	249.4	246.8	246.8	246.8	244.2	244.2	244.2	239.1	234.0	226.4	216.2
70°	203.5	203.5	203.5	201.0	201.0	198.4	198.4	195.9	190.8	185.8	173.0
72.5°	160.2	160.2	160.2	155.1	157.8	155.1	155.1	150.1	147.5	139.9	132.2
75°	122.1	122.1	119.6	119.6	117.0	114.5	114.5	112.0	109.4	104.2	96.6
77.5°	89.0	89.0	89.0	86.5	84.0	81.4	81.4	78.9	76.4	73.8	68.8
80°	61.0	61.0	61.0	61.0	58.5	56.0	56.0	53.4	53.4	50.9	45.8
82.5°	40.8	40.8	40.8	40.8	38.1	38.1	38.1	35.6	33.1	33.1	28.0
85°	28.0	28.0	25.5	25.5	25.5	25.5	22.9	22.9	20.4	17.8	17.8
87.5°	15.2	15.2	15.2	15.2	12.8	12.8	12.8	12.8	10.1	10.1	7.6
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: P252691

CATALOG NUMBER: LE_6B30D010 EC6B30508050 6LBDW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6
2.5°	1811.4	1811.4	1808.9	1801.1	1803.8	1801.1	1803.8	1801.1	1793.5	1801.1	1793.5
5°	1821.5	1824.1	1819.0	1808.9	1811.4	1808.9	1808.9	1806.2	1798.6	1803.8	1798.6
7.5°	1831.8	1829.1	1826.6	1816.5	1819.0	1816.5	1816.5	1811.4	1803.8	1808.9	1801.1
10°	1836.8	1836.8	1831.8	1821.5	1821.5	1819.0	1821.5	1819.0	1808.9	1816.5	1811.4
12.5°	1836.8	1834.2	1834.2	1821.5	1824.1	1821.5	1824.1	1819.0	1811.4	1816.5	1813.9
15°	1829.1	1829.1	1826.6	1813.9	1816.5	1816.5	1819.0	1813.9	1806.2	1813.9	1808.9
17.5°	1813.9	1813.9	1811.4	1801.1	1806.2	1806.2	1808.9	1803.8	1796.1	1801.1	1801.1
20°	1783.4	1785.9	1785.9	1778.2	1783.4	1783.4	1785.9	1783.4	1780.9	1783.4	1778.2
22.5°	1747.8	1752.9	1752.9	1745.2	1750.2	1750.2	1758.0	1755.4	1750.2	1752.9	1750.2
25°	1694.4	1699.4	1704.5	1699.4	1704.5	1704.5	1712.1	1709.6	1704.5	1709.6	1702.0
27.5°	1633.2	1635.9	1640.9	1635.9	1643.5	1640.9	1648.5	1646.0	1638.4	1646.0	1643.5
30°	1546.8	1557.0	1564.6	1557.0	1564.6	1564.6	1569.6	1567.1	1564.6	1562.0	1562.0
32.5°	1450.1	1460.2	1460.2	1457.8	1462.9	1462.9	1465.4	1460.2	1457.8	1460.2	1462.9
35°	1330.5	1335.6	1340.8	1338.1	1340.8	1343.2	1340.8	1343.2	1335.6	1338.1	1338.1
37.5°	1200.8	1205.9	1205.9	1198.2	1203.4	1203.4	1198.2	1198.2	1193.1	1198.2	1188.1
40°	1063.4	1058.4	1060.9	1055.8	1050.8	1050.8	1048.1	1038.0	1032.9	1035.4	1038.0
42.5°	928.6	928.6	921.0	908.2	895.5	895.5	887.9	882.8	872.6	877.8	875.1
45°	814.1	801.4	791.2	770.9	763.2	758.1	745.4	732.6	727.6	730.1	727.6
47.5°	704.8	694.5	669.1	641.1	633.5	625.9	610.6	595.2	590.2	585.1	585.1
50°	613.1	595.2	567.4	536.8	524.1	511.4	491.0	475.8	465.5	468.1	468.1
52.5°	529.1	508.8	475.8	437.6	422.2	407.0	389.2	371.4	363.8	361.2	361.2
55°	455.4	432.5	399.4	356.1	343.5	325.6	302.8	282.4	272.2	269.6	274.8
57.5°	389.2	368.9	330.8	287.5	272.2	254.4	231.5	213.8	201.0	198.4	201.0
60°	335.9	307.9	274.8	234.0	213.8	198.4	173.0	157.8	145.0	139.9	142.5
62.5°	282.4	257.0	223.9	183.1	167.9	152.6	129.8	112.0	101.8	99.2	101.8
65°	241.6	216.2	185.8	150.1	134.9	119.6	99.2	81.4	73.8	71.2	73.8
67.5°	201.0	178.1	152.6	119.6	106.9	94.1	73.8	61.0	50.9	48.4	50.9
70°	162.9	142.5	117.0	94.1	81.4	71.2	56.0	43.2	35.6	33.1	35.6
72.5°	122.1	106.9	89.0	68.8	61.0	53.4	40.8	30.5	25.5	22.9	25.5
75°	89.0	76.4	63.6	48.4	43.2	38.1	28.0	20.4	17.8	15.2	17.8
77.5°	61.0	53.4	43.2	33.1	28.0	25.5	17.8	15.2	12.8	10.1	10.1
80°	40.8	35.6	28.0	22.9	20.4	17.8	12.8	10.1	7.6	7.6	7.6
82.5°	25.5	20.4	17.8	12.8	10.1	10.1	7.6	5.1	5.1	5.1	5.1
85°	15.2	12.8	10.1	7.6	5.1	5.1	2.5	2.5	2.5	2.5	2.5
87.5°	7.6	5.1	5.1	2.5	2.5	2.5	2.5	2.5	0.0	0.0	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: P252691

CATALOG NUMBER: LE_6B30D010 EC6B30508050 6LBDW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6
2.5°	1798.6	1793.5	1793.5	1796.1	1798.6	1801.1	1796.1	1793.5	1793.5	1801.1	1796.1
5°	1798.6	1796.1	1796.1	1796.1	1801.1	1803.8	1798.6	1796.1	1798.6	1806.2	1803.8
7.5°	1806.2	1801.1	1803.8	1803.8	1806.2	1811.4	1806.2	1803.8	1806.2	1813.9	1808.9
10°	1811.4	1806.2	1808.9	1806.2	1813.9	1816.5	1811.4	1808.9	1811.4	1821.5	1819.0
12.5°	1813.9	1811.4	1811.4	1808.9	1816.5	1819.0	1813.9	1811.4	1813.9	1821.5	1819.0
15°	1808.9	1806.2	1806.2	1806.2	1811.4	1816.5	1808.9	1806.2	1806.2	1813.9	1811.4
17.5°	1798.6	1793.5	1793.5	1793.5	1796.1	1798.6	1791.0	1788.5	1785.9	1793.5	1791.0
20°	1780.9	1775.8	1770.6	1770.6	1773.2	1773.2	1768.1	1760.5	1760.5	1763.0	1758.0
22.5°	1747.8	1745.2	1740.1	1737.6	1742.6	1740.1	1730.0	1722.4	1719.8	1722.4	1717.2
25°	1702.0	1696.9	1694.4	1691.8	1694.4	1691.8	1681.6	1671.5	1671.5	1671.5	1663.8
27.5°	1638.4	1633.2	1630.8	1630.8	1633.2	1628.2	1618.0	1607.9	1602.8	1602.8	1595.1
30°	1557.0	1557.0	1554.4	1551.9	1549.4	1549.4	1534.0	1523.9	1518.8	1521.4	1516.2
32.5°	1457.8	1455.2	1452.6	1445.0	1447.6	1445.0	1432.2	1424.6	1417.0	1412.0	1409.4
35°	1330.5	1330.5	1328.0	1328.0	1328.0	1325.5	1312.8	1305.1	1300.0	1297.5	1289.9
37.5°	1190.6	1188.1	1185.5	1185.5	1185.5	1185.5	1177.9	1170.2	1170.2	1167.8	1162.6
40°	1032.9	1035.4	1038.0	1035.4	1043.0	1050.8	1040.5	1035.4	1032.9	1040.5	1030.4
42.5°	880.2	877.8	890.4	893.0	893.0	905.6	908.2	910.8	908.2	913.4	913.4
45°	732.6	730.1	742.9	748.0	760.6	775.9	783.6	796.2	801.4	806.5	801.4
47.5°	592.8	603.0	613.1	625.9	636.0	661.5	676.8	689.4	694.5	702.1	702.1
50°	475.8	485.9	503.8	513.9	526.6	557.1	582.6	600.4	610.6	618.2	615.6
52.5°	366.4	384.1	407.0	417.2	435.0	470.6	498.6	519.0	531.8	539.4	541.9
55°	282.4	297.6	320.5	335.9	353.6	391.8	427.4	450.2	463.0	473.2	478.2
57.5°	208.6	226.4	251.9	264.6	284.9	328.1	358.8	386.8	402.0	414.6	417.2
60°	152.6	170.5	193.4	208.6	229.0	272.2	307.9	333.2	351.1	361.2	366.4
62.5°	109.4	127.2	150.1	165.4	183.1	221.4	257.0	282.4	300.2	312.9	320.5
65°	78.9	96.6	119.6	132.2	147.5	183.1	216.2	241.6	259.5	274.8	279.9
67.5°	58.5	71.2	91.6	104.2	119.6	147.5	175.5	198.4	216.2	229.0	234.0
70°	43.2	53.4	71.2	78.9	89.0	114.5	137.4	157.8	173.0	183.1	188.2
72.5°	30.5	38.1	50.9	58.5	66.1	86.5	104.2	119.6	129.8	139.9	145.0
75°	20.4	25.5	35.6	40.8	45.8	61.0	73.8	86.5	94.1	101.8	104.2
77.5°	12.8	17.8	25.5	28.0	33.1	40.8	50.9	58.5	63.6	68.8	73.8
80°	7.6	10.1	15.2	17.8	20.4	28.0	33.1	38.1	43.2	48.4	50.9
82.5°	5.1	7.6	10.1	10.1	12.8	15.2	20.4	25.5	28.0	30.5	33.1
85°	2.5	2.5	5.1	5.1	7.6	7.6	10.1	12.8	15.2	17.8	20.4
87.5°	2.5	2.5	2.5	2.5	5.1	5.1	7.6	7.6	7.6	10.1	10.1
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: P252691

CATALOG NUMBER: LE_6B30D010 EC6B30508050 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6
2.5°	1791.0	1798.6	1791.0	1796.1	1793.5	1793.5	1791.0	1793.5
5°	1798.6	1808.9	1798.6	1806.2	1801.1	1801.1	1801.1	1803.8
7.5°	1806.2	1816.5	1808.9	1816.5	1813.9	1811.4	1811.4	1816.5
10°	1813.9	1821.5	1816.5	1824.1	1821.5	1819.0	1819.0	1824.1
12.5°	1813.9	1824.1	1819.0	1826.6	1824.1	1821.5	1821.5	1824.1
15°	1806.2	1819.0	1811.4	1819.0	1816.5	1813.9	1813.9	1819.0
17.5°	1783.4	1793.5	1788.5	1793.5	1793.5	1791.0	1793.5	1796.1
20°	1752.9	1760.5	1755.4	1760.5	1760.5	1755.4	1758.0	1760.5
22.5°	1709.6	1717.2	1712.1	1717.2	1714.8	1712.1	1712.1	1709.6
25°	1656.1	1666.4	1658.8	1663.8	1658.8	1653.6	1653.6	1656.1
27.5°	1590.0	1597.6	1587.5	1592.6	1587.5	1582.4	1582.4	1579.9
30°	1503.5	1506.1	1498.5	1503.5	1498.5	1495.9	1490.8	1490.8
32.5°	1399.2	1401.8	1394.1	1394.1	1389.0	1389.0	1378.9	1386.5
35°	1277.1	1279.6	1277.1	1274.6	1266.9	1264.4	1261.9	1261.9
37.5°	1149.9	1149.9	1142.2	1139.8	1134.6	1129.5	1132.1	1124.5
40°	1020.1	1017.6	1010.0	1012.5	1010.0	1002.4	999.8	997.2
42.5°	898.0	898.0	890.4	893.0	887.9	885.4	877.8	880.2
45°	791.2	791.2	783.6	783.6	781.0	773.4	775.9	770.9
47.5°	694.5	694.5	692.0	692.0	684.4	681.8	681.8	681.8
50°	610.6	610.6	610.6	610.6	608.0	605.5	603.0	605.5
52.5°	539.4	544.4	541.9	541.9	539.4	536.8	534.2	534.2
55°	475.8	478.2	478.2	480.9	478.2	475.8	478.2	475.8
57.5°	419.8	424.9	424.9	424.9	424.9	424.9	422.2	419.8
60°	371.4	374.0	374.0	376.5	376.5	376.5	374.0	374.0
62.5°	323.1	328.1	330.8	330.8	333.2	330.8	330.8	330.8
65°	284.9	290.0	292.6	290.0	292.6	292.6	290.0	290.0
67.5°	239.1	244.2	244.2	244.2	244.2	246.8	244.2	244.2
70°	193.4	198.4	195.9	198.4	198.4	198.4	198.4	198.4
72.5°	147.5	150.1	152.6	152.6	155.1	152.6	152.6	152.6
75°	106.9	112.0	112.0	112.0	112.0	114.5	114.5	114.5
77.5°	76.4	78.9	78.9	81.4	81.4	81.4	81.4	84.0
80°	53.4	53.4	56.0	56.0	58.5	58.5	58.5	58.5
82.5°	35.6	38.1	38.1	38.1	38.1	38.1	38.1	38.1
85°	20.4	22.9	22.9	22.9	22.9	25.5	25.5	25.5
87.5°	12.8	12.8	12.8	12.8	12.8	12.8	10.1	10.1
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)