

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: P252590

Luminaire Tested: **LE_6B30D010 EC6B30509030 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B30D010 EC6B30509030 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3145.0 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

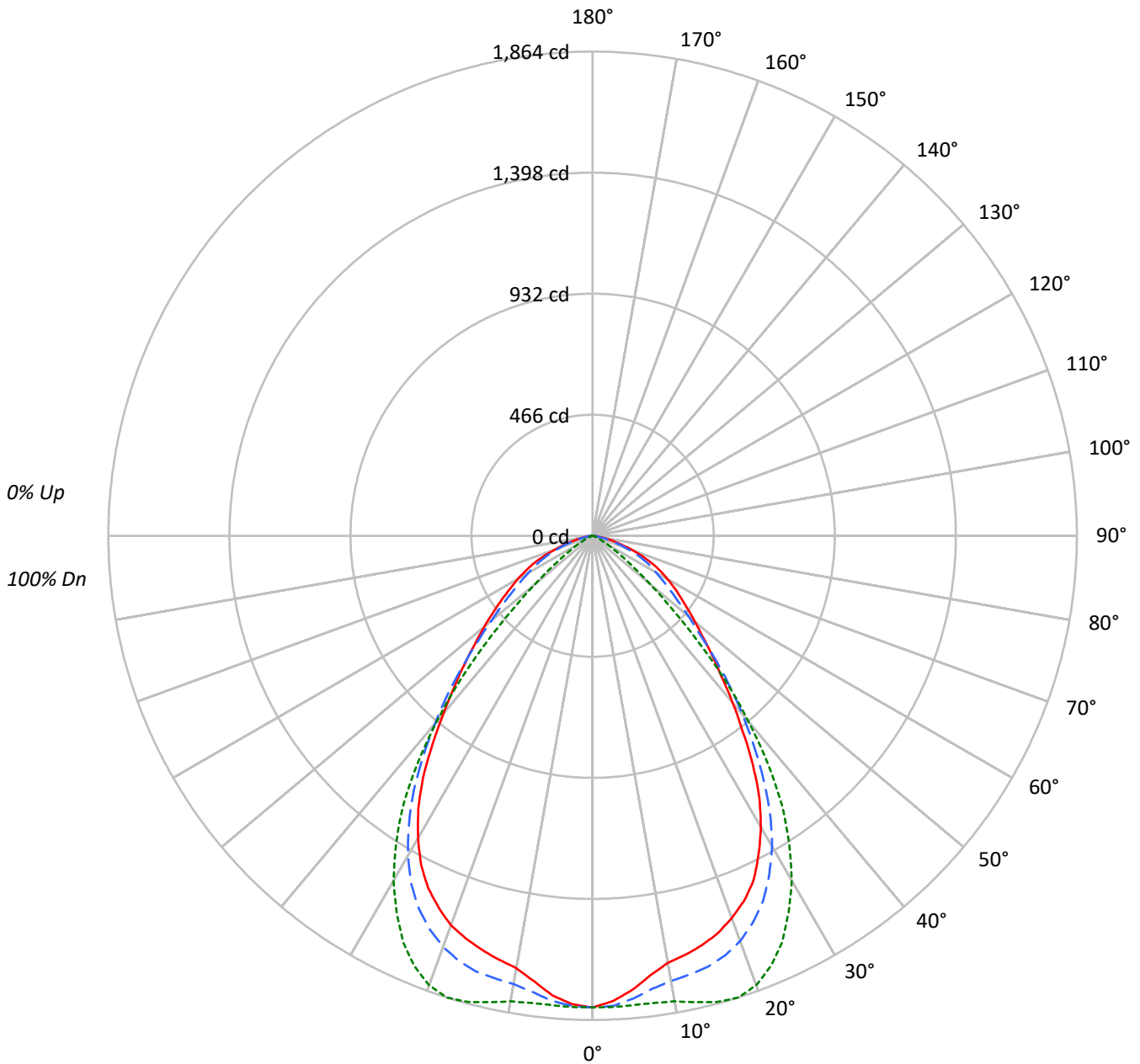
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252590

CATALOG NUMBER: LE_6B30D010 EC6B30509030 6LBDW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P252590

CATALOG NUMBER: LE_6B30D010 EC6B30509030 6LBDW1LI

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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	118464	118464	118464
5°	114928	118772	116303
10°	110560	120570	111951
15°	110161	125480	111438
20°	108724	127816	110765
25°	105473	124210	107747
30°	97564	115441	101210
35°	85601	101475	90619
40°	71326	79553	75976
45°	60046	52489	64114
50°	51986	28764	55173
55°	47033	15287	48227
60°	43268	7946	43268
65°	39211	4199	38253
70°	31646	2403	29223
75°	21703	1563	20115
80°	14202	789	12624
85°	9432	1572	7860



TEST NUMBER: P252590

CATALOG NUMBER: LE_6B30D010 EC6B30509030 6LBDW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	5.4
10°-20°	489.6	15.6
20°-30°	723.4	23.0
30°-40°	730.7	23.2
40°-50°	503.6	16.0
50°-60°	289.2	9.2
60°-70°	168.3	5.4
70°-80°	61.4	2.0
80°-90°	9.4	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°	1382.3	44.0
0°-40°	2113.0	67.2
0°-60°	2905.8	92.4
0°-90°	3145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3145.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1816	1816	1816	1816	1816	
5°	1755	1788	1814	1797	1776	165
15°	1631	1717	1858	1736	1650	459
25°	1465	1551	1726	1583	1497	668
35°	1075	1148	1274	1201	1138	667
45°	651	659	569	701	695	506
55°	414	363	134	378	424	372
65°	254	214	27	212	248	249
75°	86	69	6	67	80	97
85°	13	6	2	8	10	16
90°	0	0	0	0	0	



TEST NUMBER: P252590

CATALOG NUMBER: LE_6B30D010 EC6B30509030 6LBDW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1815.8	1815.8	1815.8	1815.8	1815.8	1815.8	1815.8	1815.8	1815.8	1815.8	1815.8
2.5°	1792.6	1794.8	1796.9	1794.8	1796.9	1805.2	1799.0	1803.1	1803.1	1805.2	1811.6
5°	1754.9	1754.9	1759.1	1757.0	1763.2	1771.6	1765.4	1771.6	1773.8	1778.0	1788.5
7.5°	1706.6	1706.6	1708.8	1708.8	1717.1	1725.5	1721.2	1729.8	1738.1	1746.5	1759.1
10°	1668.9	1673.0	1673.0	1675.1	1683.5	1694.0	1691.9	1702.4	1710.8	1723.4	1740.2
12.5°	1652.0	1654.1	1654.1	1658.4	1666.8	1677.2	1675.1	1685.6	1698.2	1712.9	1729.8
15°	1631.0	1635.2	1633.1	1637.4	1645.8	1656.2	1654.1	1664.6	1679.4	1694.0	1717.1
17.5°	1603.8	1605.9	1608.0	1608.0	1616.4	1624.8	1624.8	1635.2	1652.0	1668.9	1694.0
20°	1566.0	1570.1	1570.1	1572.2	1578.5	1591.1	1589.0	1599.5	1616.4	1633.1	1660.4
22.5°	1521.9	1524.0	1524.0	1526.1	1536.6	1542.9	1545.0	1553.4	1568.1	1587.0	1612.1
25°	1465.2	1467.2	1465.2	1471.5	1475.8	1488.2	1484.1	1494.6	1511.4	1526.1	1551.2
27.5°	1383.4	1387.5	1387.5	1389.6	1400.1	1410.6	1410.6	1421.1	1435.9	1446.4	1471.5
30°	1295.1	1301.5	1295.1	1305.6	1309.9	1318.2	1324.6	1330.9	1343.5	1358.1	1381.2
32.5°	1194.4	1192.4	1194.4	1198.6	1211.2	1217.5	1221.8	1228.0	1240.6	1253.2	1272.1
35°	1074.8	1079.0	1081.1	1089.5	1089.5	1100.0	1102.0	1106.2	1125.1	1133.5	1148.2
37.5°	948.9	953.0	955.1	959.2	967.8	971.9	978.2	984.5	997.1	1011.8	1020.1
40°	837.5	837.5	839.6	843.9	850.1	852.2	858.5	867.0	875.4	888.0	896.4
42.5°	732.6	734.8	732.6	736.8	743.1	751.5	749.4	759.9	762.0	770.4	776.6
45°	650.8	650.8	646.5	650.8	650.8	659.1	657.0	661.2	659.1	663.4	659.1
47.5°	573.1	575.1	573.1	575.1	575.1	575.1	577.2	573.1	575.1	568.9	556.2
50°	512.2	514.2	510.1	512.2	510.1	508.0	510.1	503.8	501.8	493.2	480.8
52.5°	459.8	457.6	455.5	455.5	455.5	453.4	451.4	445.0	438.8	430.4	415.6
55°	413.5	411.4	409.4	409.4	405.1	403.0	403.0	396.8	390.5	380.0	363.1
57.5°	371.5	369.5	367.4	367.4	365.2	361.0	361.0	354.8	346.4	333.8	319.1
60°	331.6	331.6	331.6	329.6	329.6	325.4	325.4	319.1	310.6	298.1	281.2
62.5°	296.0	293.9	293.9	293.9	293.9	291.8	289.6	285.5	277.1	264.5	249.8
65°	254.0	254.0	254.0	254.0	251.9	251.9	251.9	245.6	241.4	228.8	214.1
67.5°	207.9	207.9	207.9	207.9	205.8	207.9	207.9	203.6	199.4	186.9	174.2
70°	165.9	163.8	161.6	163.8	161.6	161.6	163.8	159.5	157.4	147.0	134.4
72.5°	121.8	123.9	121.8	121.8	121.8	119.6	121.8	119.6	115.5	107.0	98.6
75°	86.1	88.1	88.1	86.1	86.1	86.1	84.0	84.0	79.8	73.5	69.2
77.5°	58.8	58.8	58.8	58.8	56.6	56.6	56.6	54.6	52.5	48.2	44.1
80°	37.8	37.8	37.8	37.8	35.6	35.6	35.6	33.6	33.6	29.4	25.2
82.5°	23.1	23.1	23.1	23.1	23.1	23.1	21.0	21.0	18.9	16.8	14.8
85°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	10.5	10.5	8.4	6.2
87.5°	4.2	4.2	6.2	6.2	6.2	6.2	6.2	6.2	4.2	4.2	4.2
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: P252590

CATALOG NUMBER: LE_6B30D010 EC6B30509030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1815.8	1815.8	1815.8	1815.8	1815.8	1815.8	1815.8	1815.8	1815.8	1815.8	1815.8
2.5°	1807.4	1809.5	1809.5	1809.5	1815.8	1817.9	1811.6	1805.2	1817.9	1815.8	1820.0
5°	1786.4	1792.6	1796.9	1799.0	1805.2	1809.5	1803.1	1801.1	1811.6	1813.6	1815.8
7.5°	1761.1	1771.6	1782.1	1786.4	1794.8	1799.0	1796.9	1796.9	1809.5	1813.6	1813.6
10°	1744.4	1759.1	1771.6	1782.1	1792.6	1799.0	1799.0	1801.1	1815.8	1820.0	1824.1
12.5°	1740.2	1759.1	1775.9	1790.6	1799.0	1809.5	1811.6	1817.9	1832.5	1838.9	1838.9
15°	1729.8	1754.9	1775.9	1794.8	1807.4	1820.0	1824.1	1836.8	1853.5	1857.8	1862.0
17.5°	1710.8	1736.0	1761.1	1784.2	1801.1	1811.6	1824.1	1836.8	1857.8	1864.0	1866.1
20°	1677.2	1706.6	1731.8	1754.9	1771.6	1786.4	1799.0	1813.6	1832.5	1841.0	1843.0
22.5°	1626.9	1656.2	1681.4	1706.6	1723.4	1736.0	1748.6	1765.4	1784.2	1792.6	1792.6
25°	1566.0	1593.2	1620.5	1639.4	1656.2	1670.9	1677.2	1696.1	1715.0	1725.5	1725.5
27.5°	1488.2	1513.5	1538.6	1559.6	1570.1	1582.8	1593.2	1610.0	1624.8	1633.1	1641.5
30°	1389.6	1414.9	1437.9	1458.9	1471.5	1484.1	1494.6	1507.2	1521.9	1532.4	1534.5
32.5°	1282.6	1303.6	1326.6	1347.6	1360.2	1364.5	1375.0	1387.5	1400.1	1408.5	1410.6
35°	1165.0	1179.8	1194.4	1213.2	1225.9	1225.9	1236.4	1244.8	1255.2	1274.1	1270.0
37.5°	1026.5	1047.5	1058.0	1064.2	1072.6	1081.1	1083.1	1093.6	1106.2	1110.5	1116.8
40°	896.4	902.6	908.9	908.9	917.4	917.4	917.4	919.4	932.0	934.1	942.5
42.5°	766.2	766.2	759.9	753.6	755.8	753.6	743.1	743.1	749.4	757.8	757.8
45°	644.5	629.8	610.9	596.1	585.6	581.5	568.9	568.9	566.8	568.9	577.2
47.5°	541.6	516.4	484.9	455.5	445.0	436.6	417.8	409.4	405.1	407.2	411.4
50°	455.5	428.2	392.5	356.9	338.0	327.5	304.4	289.6	287.6	283.4	291.8
52.5°	392.5	359.0	321.1	279.1	260.2	243.5	218.2	205.8	197.4	197.4	199.4
55°	338.0	302.2	260.2	218.2	199.4	186.9	161.6	144.9	136.5	134.4	140.6
57.5°	291.8	258.2	216.2	174.2	155.4	140.6	115.5	100.8	94.5	90.2	92.4
60°	256.1	222.5	180.5	140.6	123.9	107.0	86.1	69.2	60.9	60.9	63.0
62.5°	222.5	191.0	153.2	115.5	100.8	86.1	63.0	48.2	42.0	39.9	42.0
65°	188.9	159.5	128.0	96.5	81.9	69.2	50.4	37.8	29.4	27.2	29.4
67.5°	153.2	130.1	102.9	77.6	65.1	54.6	37.8	27.2	21.0	18.9	21.0
70°	119.6	98.6	77.6	56.6	48.2	39.9	27.2	21.0	14.8	12.6	14.8
72.5°	86.1	71.4	54.6	39.9	33.6	27.2	18.9	14.8	10.5	8.4	10.5
75°	58.8	48.2	35.6	25.2	21.0	18.9	12.6	8.4	6.2	6.2	6.2
77.5°	37.8	29.4	23.1	16.8	12.6	10.5	6.2	4.2	4.2	4.2	4.2
80°	21.0	16.8	12.6	8.4	6.2	6.2	4.2	4.2	2.1	2.1	2.1
82.5°	12.6	8.4	6.2	4.2	4.2	2.1	2.1	2.1	2.1	2.1	2.1
85°	6.2	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	2.1	2.1	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: P252590

CATALOG NUMBER: LE_6B30D010 EC6B30509030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1815.8	1815.8	1815.8	1815.8	1815.8	1815.8	1815.8	1815.8	1815.8	1815.8	1815.8
2.5°	1811.6	1813.6	1807.4	1815.8	1809.5	1817.9	1817.9	1809.5	1811.6	1807.4	1815.8
5°	1807.4	1807.4	1803.1	1809.5	1801.1	1809.5	1807.4	1792.6	1796.9	1788.5	1796.9
7.5°	1807.4	1803.1	1796.9	1803.1	1792.6	1799.0	1790.6	1775.9	1771.6	1761.1	1761.1
10°	1813.6	1807.4	1799.0	1801.1	1790.6	1792.6	1780.1	1759.1	1752.8	1740.2	1736.0
12.5°	1828.4	1822.1	1809.5	1813.6	1799.0	1799.0	1782.1	1757.0	1744.4	1727.6	1723.4
15°	1849.4	1838.9	1824.1	1826.2	1811.6	1803.1	1782.1	1752.8	1736.0	1712.9	1706.6
17.5°	1853.5	1843.0	1824.1	1824.1	1805.2	1794.8	1769.6	1736.0	1715.0	1691.9	1679.4
20°	1830.5	1820.0	1799.0	1796.9	1780.1	1765.4	1738.1	1704.5	1683.5	1658.4	1647.9
22.5°	1782.1	1769.6	1750.8	1748.6	1731.8	1723.4	1694.0	1660.4	1639.4	1614.2	1605.9
25°	1710.8	1704.5	1685.6	1683.5	1668.9	1658.4	1633.1	1601.6	1582.8	1557.6	1549.1
27.5°	1626.9	1620.5	1601.6	1601.6	1584.9	1578.5	1555.5	1526.1	1511.4	1488.2	1477.8
30°	1526.1	1517.6	1507.2	1505.1	1490.4	1484.1	1463.1	1435.9	1421.1	1402.2	1398.0
32.5°	1406.4	1400.1	1393.9	1391.8	1377.0	1370.8	1356.0	1328.8	1316.1	1299.4	1293.1
35°	1267.9	1263.8	1257.4	1255.2	1249.0	1242.8	1228.0	1207.0	1200.8	1188.1	1181.9
37.5°	1108.4	1112.5	1108.4	1108.4	1102.0	1104.1	1091.5	1079.0	1072.6	1064.2	1060.1
40°	936.2	944.6	950.9	950.9	948.9	957.2	955.1	944.6	942.5	938.4	936.2
42.5°	762.0	766.2	778.8	787.1	785.1	806.1	808.1	816.6	822.9	818.6	820.8
45°	579.4	592.0	608.8	617.1	627.6	654.9	669.6	686.4	701.1	709.5	707.4
47.5°	417.8	432.4	451.4	463.9	482.8	516.4	554.1	575.1	596.1	606.6	617.1
50°	302.2	317.0	340.0	359.0	371.5	417.8	457.6	484.9	508.0	522.8	533.1
52.5°	212.0	228.8	254.0	270.8	289.6	333.8	380.0	411.4	436.6	455.5	466.0
55°	147.0	165.9	188.9	205.8	226.8	272.9	317.0	350.5	377.9	394.6	407.2
57.5°	102.9	119.6	142.8	157.4	178.4	222.5	266.6	300.1	327.5	344.2	359.0
60°	69.2	86.1	109.1	123.9	140.6	184.8	224.6	260.2	285.5	302.2	317.0
62.5°	48.2	63.0	86.1	100.8	115.5	153.2	191.0	222.5	247.8	266.6	279.1
65°	37.8	50.4	69.2	81.9	96.5	128.0	159.5	186.9	212.0	230.9	239.2
67.5°	27.2	39.9	54.6	65.1	75.6	102.9	130.1	151.1	174.2	188.9	199.4
70°	18.9	27.2	39.9	48.2	56.6	77.6	98.6	117.5	134.4	144.9	153.2
72.5°	14.8	18.9	27.2	33.6	39.9	54.6	71.4	86.1	98.6	107.0	115.5
75°	8.4	12.6	18.9	23.1	27.2	37.8	48.2	58.8	67.1	73.5	77.6
77.5°	4.2	6.2	10.5	12.6	16.8	23.1	31.5	37.8	44.1	48.2	52.5
80°	4.2	4.2	6.2	6.2	8.4	12.6	16.8	21.0	25.2	29.4	31.5
82.5°	2.1	2.1	4.2	4.2	4.2	6.2	8.4	12.6	14.8	16.8	18.9
85°	2.1	2.1	2.1	2.1	2.1	4.2	4.2	6.2	8.4	10.5	10.5
87.5°	0.0	0.0	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2	6.2
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: P252590

CATALOG NUMBER: LE_6B30D010 EC6B30509030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1815.8	1815.8	1815.8	1815.8	1815.8	1815.8	1815.8	1815.8
2.5°	1809.5	1813.6	1811.6	1815.8	1809.5	1807.4	1811.6	1805.2
5°	1786.4	1788.5	1786.4	1786.4	1782.1	1778.0	1782.1	1775.9
7.5°	1750.8	1750.8	1744.4	1744.4	1736.0	1731.8	1731.8	1729.8
10°	1721.2	1715.0	1708.8	1710.8	1698.2	1694.0	1691.9	1689.9
12.5°	1706.6	1702.4	1691.9	1691.9	1679.4	1675.1	1673.0	1670.9
15°	1689.9	1681.4	1673.0	1670.9	1660.4	1656.2	1654.1	1649.9
17.5°	1660.4	1654.1	1643.6	1643.6	1633.1	1631.0	1626.9	1624.8
20°	1629.0	1620.5	1612.1	1612.1	1599.5	1599.5	1593.2	1595.4
22.5°	1584.9	1578.5	1570.1	1570.1	1559.6	1557.6	1551.2	1549.1
25°	1532.4	1524.0	1517.6	1515.6	1507.2	1503.0	1500.9	1496.8
27.5°	1463.1	1456.8	1450.5	1446.4	1435.9	1433.8	1427.4	1429.5
30°	1377.0	1372.9	1370.8	1366.5	1354.0	1349.8	1349.8	1343.5
32.5°	1282.6	1276.2	1272.1	1265.8	1255.2	1253.2	1246.9	1249.0
35°	1167.1	1158.8	1152.4	1154.5	1142.0	1139.9	1135.6	1137.8
37.5°	1047.5	1039.1	1030.6	1028.6	1018.1	1018.1	1011.8	1011.8
40°	923.6	915.2	911.0	911.0	898.4	900.5	894.2	892.1
42.5°	812.4	804.0	801.9	799.8	793.5	791.4	785.1	787.1
45°	707.4	705.4	705.4	701.1	694.9	692.8	694.9	694.9
47.5°	615.0	617.1	615.0	615.0	610.9	615.0	610.9	613.0
50°	537.4	541.6	541.6	541.6	539.5	541.6	541.6	543.6
52.5°	472.2	478.6	476.5	478.6	476.5	480.8	478.6	480.8
55°	415.6	419.9	421.9	424.0	424.0	424.0	424.0	424.0
57.5°	363.1	369.5	371.5	373.6	373.6	377.9	373.6	373.6
60°	321.1	327.5	329.6	331.6	331.6	333.8	329.6	331.6
62.5°	283.4	289.6	289.6	291.8	291.8	291.8	287.6	289.6
65°	245.6	247.8	249.8	249.8	247.8	247.8	245.6	247.8
67.5°	203.6	205.8	203.6	203.6	201.5	201.5	197.4	199.4
70°	157.4	157.4	159.5	157.4	155.4	157.4	155.4	153.2
72.5°	117.5	117.5	117.5	115.5	115.5	113.4	115.5	115.5
75°	79.8	79.8	81.9	81.9	81.9	81.9	79.8	79.8
77.5°	52.5	52.5	52.5	52.5	54.6	52.5	52.5	52.5
80°	33.6	33.6	35.6	35.6	33.6	33.6	33.6	33.6
82.5°	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
85°	12.6	12.6	12.6	12.6	10.5	10.5	10.5	10.5
87.5°	6.2	6.2	6.2	6.2	6.2	6.2	4.2	4.2
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)