

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: P252589

Luminaire Tested: **LE_6B30D010 EC6B30509027 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252589
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 EC6B30509027 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3023.7 lumens
Efficiency: N/A
Efficacy: 108.0 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

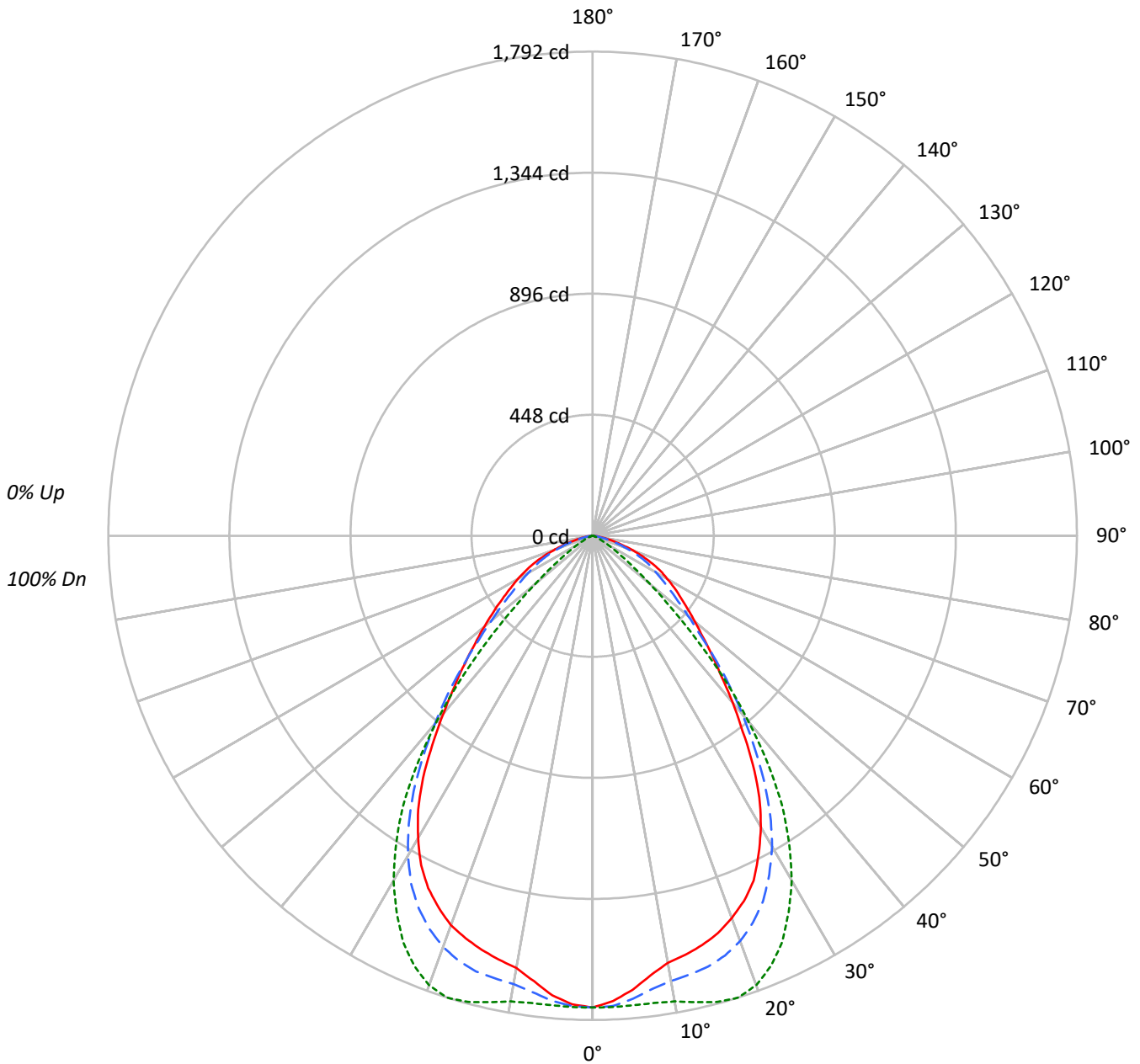
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252589

CATALOG NUMBER: LE_6B30D010 EC6B30509027 6LBDW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P252589

CATALOG NUMBER: LE_6B30D010 EC6B30509027 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°	113897	113897	113897
5°	110494	114201	111817
10°	106293	115919	107625
15°	105913	120637	107149
20°	104530	122887	106495
25°	101413	119423	103587
30°	93805	110981	97301
35°	82304	97564	87123
40°	68575	76487	73055
45°	57720	50469	61632
50°	49987	27658	53062
55°	45224	14684	46362
60°	41610	7633	41610
65°	37698	4045	36756
70°	30425	2308	28117
75°	20871	1512	19359
80°	13676	751	12098
85°	9057	1497	7560



TEST NUMBER: P252589

CATALOG NUMBER: LE_6B30D010 EC6B30509027 6LBDW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.8	5.4
10°-20°	470.7	15.6
20°-30°	695.5	23.0
30°-40°	702.5	23.2
40°-50°	484.2	16.0
50°-60°	278.1	9.2
60°-70°	161.9	5.4
70°-80°	59.0	2.0
80°-90°	9.0	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°	1329.0	44.0
0°-40°	2031.5	67.2
0°-60°	2793.8	92.4
0°-90°	3023.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3023.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1746	1746	1746	1746	1746	
5°	1687	1720	1744	1728	1707	158
15°	1568	1651	1786	1669	1586	442
25°	1409	1492	1659	1522	1439	642
35°	1033	1104	1225	1154	1094	641
45°	626	634	547	674	668	487
55°	398	349	129	363	408	358
65°	244	206	26	204	238	239
75°	83	67	6	65	77	93
85°	12	6	2	8	10	15
90°	0	0	0	0	0	



TEST NUMBER: P252589

CATALOG NUMBER: LE_6B30D010 EC6B30509027 6LBDW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1745.8	1745.8	1745.8	1745.8	1745.8	1745.8	1745.8	1745.8	1745.8	1745.8	1745.8
2.5°	1723.5	1725.6	1727.6	1725.6	1727.6	1735.6	1729.6	1733.6	1733.6	1735.6	1741.8
5°	1687.2	1687.2	1691.2	1689.2	1695.2	1703.4	1697.4	1703.4	1705.4	1709.4	1719.5
7.5°	1640.9	1640.9	1642.9	1642.9	1650.9	1659.0	1655.0	1663.0	1671.1	1679.1	1691.2
10°	1604.5	1608.5	1608.5	1610.5	1618.6	1628.8	1626.6	1636.8	1644.9	1657.0	1673.1
12.5°	1588.4	1590.4	1590.4	1594.4	1602.5	1612.5	1610.5	1620.6	1632.8	1646.9	1663.0
15°	1568.1	1572.2	1570.1	1574.2	1582.2	1592.4	1590.4	1600.5	1614.6	1628.8	1650.9
17.5°	1541.9	1544.0	1546.0	1546.0	1554.0	1562.1	1562.1	1572.2	1588.4	1604.5	1628.8
20°	1505.6	1509.6	1509.6	1511.6	1517.8	1529.8	1527.8	1537.9	1554.0	1570.1	1596.4
22.5°	1463.2	1465.2	1465.2	1467.2	1477.4	1483.4	1485.4	1493.5	1507.6	1525.8	1550.0
25°	1408.8	1410.8	1408.8	1414.8	1418.8	1430.9	1426.9	1437.0	1453.1	1467.2	1491.5
27.5°	1330.0	1334.0	1334.0	1336.1	1346.1	1356.2	1356.2	1366.4	1380.5	1390.5	1414.8
30°	1245.2	1251.2	1245.2	1255.4	1259.4	1267.5	1273.5	1279.5	1291.6	1305.8	1328.0
32.5°	1148.4	1146.4	1148.4	1152.4	1164.5	1170.6	1174.6	1180.6	1192.8	1204.9	1223.0
35°	1033.4	1037.4	1039.4	1047.5	1047.5	1057.5	1059.6	1063.6	1081.8	1089.9	1104.0
37.5°	912.2	916.2	918.2	922.4	930.4	934.4	940.5	946.5	958.6	972.8	980.9
40°	805.2	805.2	807.2	811.4	817.4	819.4	825.5	833.5	841.6	853.8	861.8
42.5°	704.4	706.4	704.4	708.4	714.5	722.5	720.5	730.6	732.6	740.6	746.8
45°	625.6	625.6	621.6	625.6	625.6	633.8	631.8	635.8	633.8	637.8	633.8
47.5°	551.0	553.0	551.0	553.0	553.0	553.0	555.0	551.0	553.0	547.0	534.9
50°	492.5	494.5	490.4	492.5	490.4	488.4	490.4	484.4	482.4	474.2	462.1
52.5°	442.0	440.0	438.0	438.0	438.0	435.9	433.9	427.9	421.8	413.8	399.6
55°	397.6	395.6	393.5	393.5	389.5	387.5	387.5	381.5	375.4	365.2	349.1
57.5°	357.2	355.2	353.2	353.2	351.1	347.1	347.1	341.1	333.0	320.9	306.8
60°	318.9	318.9	318.9	316.9	316.9	312.9	312.9	306.8	298.8	286.6	270.5
62.5°	284.6	282.5	282.5	282.5	282.5	280.5	278.5	274.5	266.4	254.2	240.1
65°	244.2	244.2	244.2	244.2	242.1	242.1	242.1	236.1	232.1	220.0	205.9
67.5°	199.8	199.8	199.8	199.8	197.8	199.8	199.8	195.8	191.8	179.6	167.5
70°	159.5	157.4	155.4	157.4	155.4	155.4	157.4	153.4	151.4	141.2	129.1
72.5°	117.0	119.1	117.0	117.0	117.0	115.0	117.0	115.0	111.0	102.9	94.9
75°	82.8	84.8	84.8	82.8	82.8	82.8	80.8	80.8	76.8	70.6	66.6
77.5°	56.5	56.5	56.5	56.5	54.5	54.5	54.5	52.5	50.5	46.4	42.4
80°	36.4	36.4	36.4	36.4	34.2	34.2	34.2	32.2	32.2	28.2	24.2
82.5°	22.2	22.2	22.2	22.2	22.2	22.2	20.1	20.1	18.1	16.1	14.1
85°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	10.1	10.1	8.1	6.0
87.5°	4.0	4.0	6.0	6.0	6.0	6.0	6.0	6.0	4.0	4.0	4.0
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: P252589

CATALOG NUMBER: LE_6B30D010 EC6B30509027 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1745.8	1745.8	1745.8	1745.8	1745.8	1745.8	1745.8	1745.8	1745.8	1745.8	1745.8
2.5°	1737.8	1739.8	1739.8	1739.8	1745.8	1747.8	1741.8	1735.6	1747.8	1745.8	1749.8
5°	1717.5	1723.5	1727.6	1729.6	1735.6	1739.8	1733.6	1731.6	1741.8	1743.8	1745.8
7.5°	1693.2	1703.4	1713.5	1717.5	1725.6	1729.6	1727.6	1727.6	1739.8	1743.8	1743.8
10°	1677.1	1691.2	1703.4	1713.5	1723.5	1729.6	1729.6	1731.6	1745.8	1749.8	1753.9
12.5°	1673.1	1691.2	1707.4	1721.5	1729.6	1739.8	1741.8	1747.8	1761.9	1768.0	1768.0
15°	1663.0	1687.2	1707.4	1725.6	1737.8	1749.8	1753.9	1766.0	1782.1	1786.1	1790.1
17.5°	1644.9	1669.1	1693.2	1715.5	1731.6	1741.8	1753.9	1766.0	1786.1	1792.1	1794.2
20°	1612.5	1640.9	1665.0	1687.2	1703.4	1717.5	1729.6	1743.8	1761.9	1770.0	1772.0
22.5°	1564.1	1592.4	1616.6	1640.9	1657.0	1669.1	1681.1	1697.4	1715.5	1723.5	1723.5
25°	1505.6	1531.9	1558.1	1576.2	1592.4	1606.5	1612.5	1630.8	1648.9	1659.0	1659.0
27.5°	1430.9	1455.1	1479.4	1499.5	1509.6	1521.8	1531.9	1548.0	1562.1	1570.1	1578.2
30°	1336.1	1360.2	1382.5	1402.6	1414.8	1426.9	1437.0	1449.1	1463.2	1473.2	1475.4
32.5°	1233.1	1253.4	1275.5	1295.8	1307.8	1311.9	1321.9	1334.0	1346.1	1354.2	1356.2
35°	1120.1	1134.2	1148.4	1166.5	1178.6	1178.6	1188.8	1196.8	1206.9	1225.0	1221.0
37.5°	986.9	1007.1	1017.1	1023.2	1031.2	1039.4	1041.4	1051.5	1063.6	1067.6	1073.8
40°	861.8	867.9	873.9	873.9	882.0	882.0	882.0	884.0	896.1	898.1	906.1
42.5°	736.6	736.6	730.6	724.5	726.5	724.5	714.5	714.5	720.5	728.6	728.6
45°	619.6	605.5	587.2	573.1	563.1	559.0	547.0	547.0	544.9	547.0	555.0
47.5°	520.8	496.5	466.2	438.0	427.9	419.8	401.6	393.5	389.5	391.5	395.6
50°	438.0	411.8	377.4	343.1	324.9	314.9	292.6	278.5	276.5	272.5	280.5
52.5°	377.4	345.1	308.8	268.4	250.2	234.1	209.9	197.8	189.8	189.8	191.8
55°	324.9	290.6	250.2	209.9	191.8	179.6	155.4	139.2	131.1	129.1	135.2
57.5°	280.5	248.2	207.9	167.5	149.4	135.2	111.0	96.9	90.9	86.8	88.8
60°	246.2	213.9	173.6	135.2	119.1	102.9	82.8	66.6	58.5	58.5	60.5
62.5°	213.9	183.6	147.4	111.0	96.9	82.8	60.5	46.4	40.4	38.4	40.4
65°	181.6	153.4	123.1	92.9	78.8	66.6	48.4	36.4	28.2	26.2	28.2
67.5°	147.4	125.1	98.9	74.6	62.6	52.5	36.4	26.2	20.1	18.1	20.1
70°	115.0	94.9	74.6	54.5	46.4	38.4	26.2	20.1	14.1	12.1	14.1
72.5°	82.8	68.6	52.5	38.4	32.2	26.2	18.1	14.1	10.1	8.1	10.1
75°	56.5	46.4	34.2	24.2	20.1	18.1	12.1	8.1	6.0	6.0	6.0
77.5°	36.4	28.2	22.2	16.1	12.1	10.1	6.0	4.0	4.0	4.0	4.0
80°	20.1	16.1	12.1	8.1	6.0	6.0	4.0	4.0	2.0	2.0	2.0
82.5°	12.1	8.1	6.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	6.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	2.0	2.0	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: P252589

CATALOG NUMBER: LE_6B30D010 EC6B30509027 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1745.8	1745.8	1745.8	1745.8	1745.8	1745.8	1745.8	1745.8	1745.8	1745.8	1745.8
2.5°	1741.8	1743.8	1737.8	1745.8	1739.8	1747.8	1747.8	1739.8	1741.8	1737.8	1745.8
5°	1737.8	1737.8	1733.6	1739.8	1731.6	1739.8	1737.8	1723.5	1727.6	1719.5	1727.6
7.5°	1737.8	1733.6	1727.6	1733.6	1723.5	1729.6	1721.5	1707.4	1703.4	1693.2	1693.2
10°	1743.8	1737.8	1729.6	1731.6	1721.5	1723.5	1711.5	1691.2	1685.2	1673.1	1669.1
12.5°	1757.9	1751.9	1739.8	1743.8	1729.6	1729.6	1713.5	1689.2	1677.1	1661.0	1657.0
15°	1778.0	1768.0	1753.9	1755.9	1741.8	1733.6	1713.5	1685.2	1669.1	1646.9	1640.9
17.5°	1782.1	1772.0	1753.9	1753.9	1735.6	1725.6	1701.4	1669.1	1648.9	1626.6	1614.6
20°	1759.9	1749.8	1729.6	1727.6	1711.5	1697.4	1671.1	1638.8	1618.6	1594.4	1584.2
22.5°	1713.5	1701.4	1683.2	1681.1	1665.0	1657.0	1628.8	1596.4	1576.2	1552.0	1544.0
25°	1644.9	1638.8	1620.6	1618.6	1604.5	1594.4	1570.1	1539.9	1521.8	1497.5	1489.5
27.5°	1564.1	1558.1	1539.9	1539.9	1523.8	1517.8	1495.5	1467.2	1453.1	1430.9	1420.9
30°	1467.2	1459.1	1449.1	1447.1	1432.9	1426.9	1406.8	1380.5	1366.4	1348.1	1344.1
32.5°	1352.2	1346.1	1340.1	1338.1	1324.0	1317.9	1303.8	1277.5	1265.4	1249.2	1243.2
35°	1219.0	1215.0	1208.9	1206.9	1200.9	1194.8	1180.6	1160.5	1154.4	1142.4	1136.2
37.5°	1065.6	1069.6	1065.6	1065.6	1059.6	1061.6	1049.5	1037.4	1031.2	1023.2	1019.2
40°	900.1	908.2	914.2	914.2	912.2	920.2	918.2	908.2	906.1	902.1	900.1
42.5°	732.6	736.6	748.8	756.9	754.9	775.0	777.0	785.1	791.1	787.1	789.1
45°	557.0	569.1	585.2	593.4	603.5	629.6	643.9	660.0	674.1	682.1	680.1
47.5°	401.6	415.8	433.9	446.0	464.2	496.5	532.8	553.0	573.1	583.2	593.4
50°	290.6	304.8	327.0	345.1	357.2	401.6	440.0	466.2	488.4	502.5	512.6
52.5°	203.9	220.0	244.2	260.4	278.5	320.9	365.2	395.6	419.8	438.0	448.0
55°	141.2	159.5	181.6	197.8	218.0	262.4	304.8	337.0	363.2	379.4	391.5
57.5°	98.9	115.0	137.2	151.4	171.5	213.9	256.4	288.6	314.9	331.0	345.1
60°	66.6	82.8	105.0	119.1	135.2	177.6	216.0	250.2	274.5	290.6	304.8
62.5°	46.4	60.5	82.8	96.9	111.0	147.4	183.6	213.9	238.1	256.4	268.4
65°	36.4	48.4	66.6	78.8	92.9	123.1	153.4	179.6	203.9	222.0	230.1
67.5°	26.2	38.4	52.5	62.6	72.6	98.9	125.1	145.2	167.5	181.6	191.8
70°	18.1	26.2	38.4	46.4	54.5	74.6	94.9	113.0	129.1	139.2	147.4
72.5°	14.1	18.1	26.2	32.2	38.4	52.5	68.6	82.8	94.9	102.9	111.0
75°	8.1	12.1	18.1	22.2	26.2	36.4	46.4	56.5	64.6	70.6	74.6
77.5°	4.0	6.0	10.1	12.1	16.1	22.2	30.2	36.4	42.4	46.4	50.5
80°	4.0	4.0	6.0	6.0	8.1	12.1	16.1	20.1	24.2	28.2	30.2
82.5°	2.0	2.0	4.0	4.0	4.0	6.0	8.1	12.1	14.1	16.1	18.1
85°	2.0	2.0	2.0	2.0	2.0	4.0	4.0	6.0	8.1	10.1	10.1
87.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	4.0	6.0
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: P252589

CATALOG NUMBER: LE_6B30D010 EC6B30509027 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1745.8	1745.8	1745.8	1745.8	1745.8	1745.8	1745.8	1745.8
2.5°	1739.8	1743.8	1741.8	1745.8	1739.8	1737.8	1741.8	1735.6
5°	1717.5	1719.5	1717.5	1717.5	1713.5	1709.4	1713.5	1707.4
7.5°	1683.2	1683.2	1677.1	1677.1	1669.1	1665.0	1665.0	1663.0
10°	1655.0	1648.9	1642.9	1644.9	1632.8	1628.8	1626.6	1624.6
12.5°	1640.9	1636.8	1626.6	1626.6	1614.6	1610.5	1608.5	1606.5
15°	1624.6	1616.6	1608.5	1606.5	1596.4	1592.4	1590.4	1586.4
17.5°	1596.4	1590.4	1580.2	1580.2	1570.1	1568.1	1564.1	1562.1
20°	1566.1	1558.1	1550.0	1550.0	1537.9	1537.9	1531.9	1533.9
22.5°	1523.8	1517.8	1509.6	1509.6	1499.5	1497.5	1491.5	1489.5
25°	1473.2	1465.2	1459.1	1457.1	1449.1	1445.0	1443.0	1439.0
27.5°	1406.8	1400.6	1394.6	1390.5	1380.5	1378.5	1372.4	1374.4
30°	1324.0	1319.9	1317.9	1313.9	1301.8	1297.8	1297.8	1291.6
32.5°	1233.1	1227.1	1223.0	1217.0	1206.9	1204.9	1198.9	1200.9
35°	1122.1	1114.0	1108.0	1110.0	1097.9	1095.9	1091.9	1093.9
37.5°	1007.1	999.0	991.0	988.9	978.9	978.9	972.8	972.8
40°	888.0	880.0	875.9	875.9	863.8	865.9	859.8	857.8
42.5°	781.0	773.0	771.0	769.0	762.9	760.9	754.9	756.9
45°	680.1	678.1	678.1	674.1	668.0	666.0	668.0	668.0
47.5°	591.4	593.4	591.4	591.4	587.2	591.4	587.2	589.4
50°	516.6	520.8	520.8	520.8	518.6	520.8	520.8	522.8
52.5°	454.1	460.1	458.1	460.1	458.1	462.1	460.1	462.1
55°	399.6	403.6	405.6	407.6	407.6	407.6	407.6	407.6
57.5°	349.1	355.2	357.2	359.2	359.2	363.2	359.2	359.2
60°	308.8	314.9	316.9	318.9	318.9	320.9	316.9	318.9
62.5°	272.5	278.5	278.5	280.5	280.5	280.5	276.5	278.5
65°	236.1	238.1	240.1	240.1	238.1	238.1	236.1	238.1
67.5°	195.8	197.8	195.8	195.8	193.8	193.8	189.8	191.8
70°	151.4	151.4	153.4	151.4	149.4	151.4	149.4	147.4
72.5°	113.0	113.0	113.0	111.0	111.0	109.0	111.0	111.0
75°	76.8	76.8	78.8	78.8	78.8	78.8	76.8	76.8
77.5°	50.5	50.5	50.5	50.5	52.5	50.5	50.5	50.5
80°	32.2	32.2	34.2	34.2	32.2	32.2	32.2	32.2
82.5°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
85°	12.1	12.1	12.1	12.1	10.1	10.1	10.1	10.1
87.5°	6.0	6.0	6.0	6.0	6.0	6.0	4.0	4.0
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)