

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: P252503

Luminaire Tested: **LE\_6B40D010 EC6B30509727 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252503  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B40D010 EC6B30509727 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3166.3 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

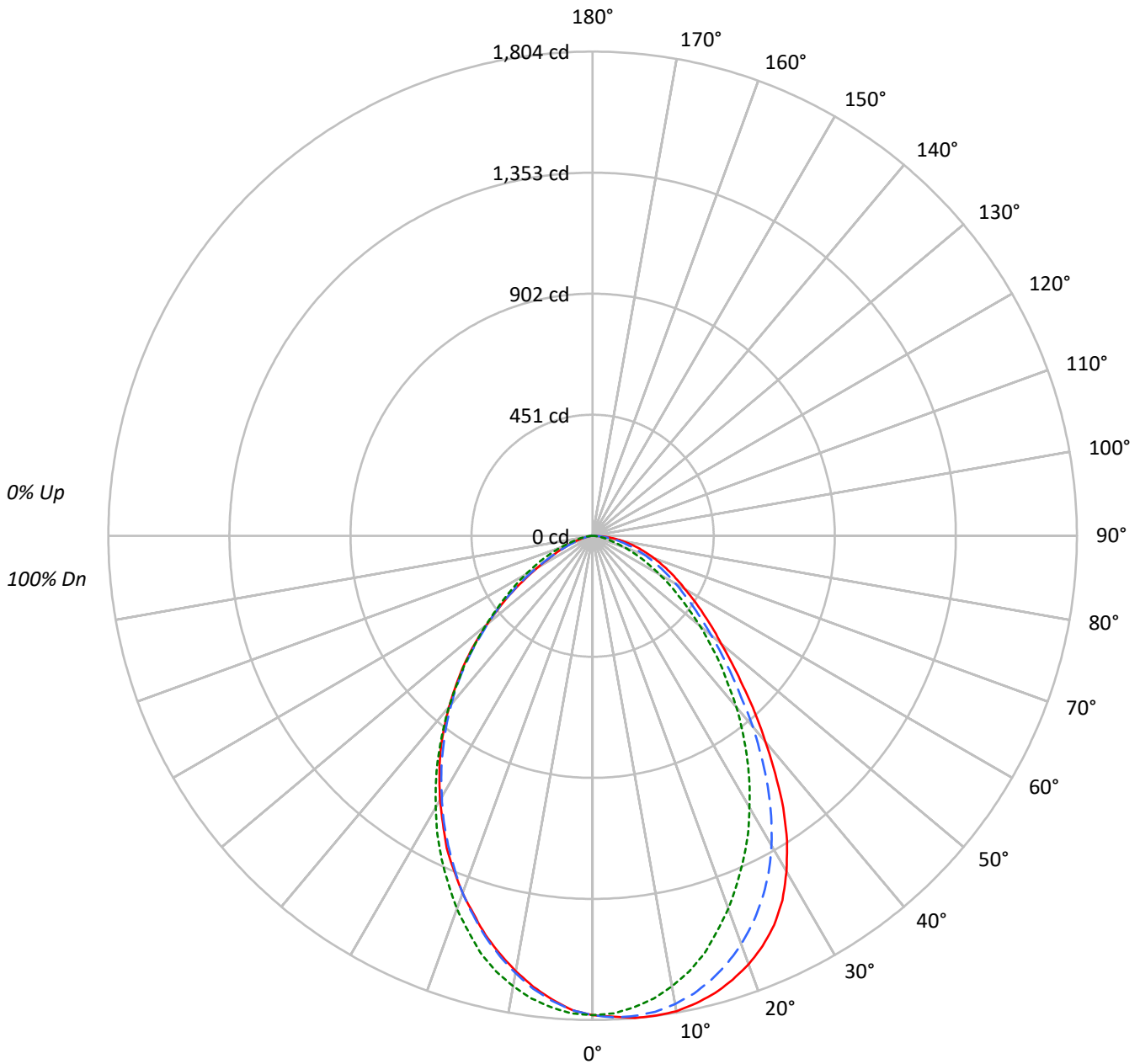
Input Watts (W): 43  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P252503

CATALOG NUMBER: LE\_6B40D010 EC6B30509727 6LBLWW1H

### Luminous Intensity Polar Plot





TEST NUMBER: P252503

CATALOG NUMBER: LE\_6B40D010 EC6B30509727 6LBLWW1H

**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	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88								
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77								
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67								
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59								
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53								
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47								
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43								
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39								
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35								
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	116533	116533	116533
5°	118117	115518	113566
10°	119152	112912	109122
15°	119137	108749	104055
20°	117985	102656	98351
25°	115183	95726	92508
30°	108774	88027	85594
35°	98599	79819	78840
40°	85149	70994	70781
45°	73018	61808	62260
50°	63445	52880	52118
55°	56997	44587	41755
60°	51801	37553	30741
65°	48643	31029	22600
70°	46372	24130	16576
75°	44390	17519	11242
80°	41929	12098	7477
85°	37128	7411	3743



TEST NUMBER: P252503

CATALOG NUMBER: LE\_6B40D010 EC6B30509727 6LBLWW1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.1	5.3
10°-20°	457.6	14.5
20°-30°	635.3	20.1
30°-40°	658.1	20.8
40°-50°	540.8	17.1
50°-60°	371.7	11.7
60°-70°	213.6	6.7
70°-80°	98.2	3.1
80°-90°	23.9	0.8
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°	1260.0	39.8
0°-40°	1918.1	60.6
0°-60°	2830.5	89.4
0°-90°	3166.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3166.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1786	1786	1786	1786	1786	
5°	1804	1796	1764	1739	1734	172
15°	1764	1712	1610	1546	1541	497
25°	1600	1494	1330	1273	1285	732
35°	1238	1136	1002	972	990	768
45°	791	732	670	662	675	616
55°	501	454	392	370	367	451
65°	315	275	201	141	146	314
75°	176	139	70	45	45	186
85°	50	35	10	5	5	56
90°	0	0	0	0	0	



TEST NUMBER: P252503

CATALOG NUMBER: LE\_6B40D010 EC6B30509727 6LBLWW1H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2
2.5°	1793.6	1808.5	1798.6	1796.1	1801.1	1801.1	1801.1	1793.6	1798.6	1791.2	1796.1
5°	1803.6	1816.0	1806.1	1801.1	1806.1	1808.5	1801.1	1796.1	1803.6	1793.6	1796.1
7.5°	1803.6	1816.0	1806.1	1803.6	1806.1	1806.1	1803.6	1793.6	1798.6	1788.8	1788.8
10°	1798.6	1808.5	1798.6	1793.6	1796.1	1793.6	1793.6	1781.2	1783.8	1771.4	1771.4
12.5°	1783.8	1796.1	1783.8	1778.8	1778.8	1778.8	1771.4	1761.4	1763.9	1749.0	1746.5
15°	1763.9	1773.9	1761.4	1756.5	1756.5	1754.0	1749.0	1734.1	1734.1	1719.2	1711.8
17.5°	1734.1	1744.0	1734.1	1726.8	1724.2	1719.2	1714.2	1699.4	1694.5	1677.1	1669.6
20°	1699.4	1706.9	1696.9	1689.5	1684.5	1679.5	1669.6	1654.8	1649.8	1632.4	1620.0
22.5°	1654.8	1664.6	1649.8	1642.4	1637.4	1630.0	1620.0	1605.1	1597.6	1575.4	1560.5
25°	1600.1	1605.1	1592.8	1585.2	1575.4	1570.4	1563.0	1543.1	1535.6	1510.9	1493.5
27.5°	1530.8	1535.6	1520.8	1515.9	1503.4	1498.5	1488.5	1471.1	1461.2	1436.4	1419.1
30°	1443.9	1448.9	1438.9	1431.5	1421.5	1411.6	1404.1	1386.8	1371.9	1347.1	1332.2
32.5°	1347.1	1354.5	1344.6	1334.8	1317.4	1319.9	1307.4	1290.0	1277.6	1255.4	1238.0
35°	1238.0	1242.9	1230.5	1228.0	1218.1	1208.2	1195.8	1183.4	1175.9	1151.1	1136.2
37.5°	1116.4	1128.8	1116.4	1106.5	1101.5	1094.1	1086.6	1069.2	1064.2	1049.4	1029.6
40°	999.8	1007.2	999.8	989.9	982.4	982.4	972.5	962.6	950.1	935.2	927.9
42.5°	895.6	890.6	888.1	883.2	873.2	870.8	868.2	855.9	848.5	833.6	821.1
45°	791.4	793.9	788.9	786.5	779.0	774.0	769.1	759.1	756.6	741.8	731.9
47.5°	704.6	702.1	697.1	697.1	692.1	687.2	682.2	674.8	672.4	659.9	650.0
50°	625.1	627.6	625.1	622.8	615.2	612.8	607.9	602.9	597.9	585.5	575.6
52.5°	560.6	558.2	555.8	555.8	548.2	545.8	540.9	535.9	530.9	518.5	511.0
55°	501.1	501.1	498.6	496.1	488.8	486.2	483.8	478.8	471.4	461.5	454.0
57.5°	446.5	446.5	444.1	441.6	436.6	436.6	431.6	426.8	421.8	411.9	401.9
60°	397.0	399.4	397.0	394.5	389.5	389.5	387.0	379.6	377.1	364.8	357.2
62.5°	354.8	354.8	354.8	352.2	349.8	344.9	344.9	337.4	332.5	325.0	315.1
65°	315.1	315.1	315.1	312.6	307.6	305.1	302.6	297.8	292.8	285.2	275.4
67.5°	277.9	277.9	277.9	275.4	270.4	267.9	265.5	263.0	255.5	248.1	238.1
70°	243.1	243.1	240.6	238.1	235.6	233.2	230.8	225.8	220.8	210.9	203.4
72.5°	208.4	208.4	208.4	203.4	201.0	201.0	196.0	193.5	188.5	178.6	171.1
75°	176.1	173.6	173.6	171.1	168.8	166.2	163.8	161.2	153.9	148.9	138.9
77.5°	143.9	143.9	141.4	138.9	138.9	136.5	134.0	129.0	126.5	119.1	111.6
80°	111.6	111.6	111.6	111.6	109.1	106.6	106.6	101.8	99.2	91.8	86.9
82.5°	84.4	81.9	81.9	81.9	79.4	76.9	76.9	74.4	72.0	67.0	62.0
85°	49.6	47.1	47.1	47.1	44.6	44.6	42.1	42.1	39.8	34.8	34.8
87.5°	14.9	14.9	17.4	17.4	14.9	14.9	14.9	14.9	14.9	12.4	12.4
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: P252503

CATALOG NUMBER: LE\_6B40D010 EC6B30509727 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2
2.5°	1791.2	1798.6	1788.8	1786.2	1796.1	1791.2	1788.8	1783.8	1786.2	1781.2	1773.9
5°	1788.8	1798.6	1786.2	1778.8	1791.2	1783.8	1778.8	1773.9	1773.9	1763.9	1759.0
7.5°	1781.2	1786.2	1773.9	1766.4	1773.9	1766.4	1761.4	1754.0	1751.5	1739.1	1731.6
10°	1761.4	1766.4	1751.5	1741.6	1749.0	1739.1	1731.6	1724.2	1719.2	1704.4	1694.5
12.5°	1734.1	1736.6	1719.2	1706.9	1711.8	1704.4	1692.0	1682.0	1677.1	1662.2	1649.8
15°	1696.9	1699.4	1679.5	1662.2	1667.1	1657.2	1642.4	1632.4	1625.0	1610.1	1592.8
17.5°	1652.2	1649.8	1627.5	1610.1	1612.6	1600.1	1585.2	1570.4	1560.5	1543.1	1530.8
20°	1602.6	1595.2	1570.4	1550.5	1553.0	1538.1	1520.8	1505.9	1493.5	1478.6	1461.2
22.5°	1540.6	1530.8	1508.4	1483.6	1486.0	1473.6	1448.9	1436.4	1424.0	1404.1	1389.2
25°	1473.6	1458.8	1436.4	1411.6	1411.6	1396.8	1376.9	1362.0	1349.6	1329.8	1312.4
27.5°	1394.2	1386.8	1357.0	1337.2	1334.8	1319.9	1302.5	1285.1	1270.2	1252.9	1235.5
30°	1307.4	1295.0	1272.8	1250.4	1245.4	1233.0	1215.6	1195.8	1185.9	1168.5	1153.6
32.5°	1215.6	1203.2	1178.4	1156.1	1153.6	1143.6	1128.8	1109.0	1099.0	1086.6	1076.8
35°	1111.4	1106.5	1081.6	1064.2	1064.2	1054.4	1039.5	1022.1	1014.6	1002.2	989.9
37.5°	1012.2	1004.8	982.4	967.5	967.5	955.1	940.2	932.8	925.4	915.5	908.0
40°	908.0	903.0	885.6	870.8	873.2	863.4	853.4	843.5	838.5	833.6	826.1
42.5°	811.2	806.2	793.9	781.5	781.5	774.0	764.1	756.6	751.8	744.2	741.8
45°	724.4	717.0	707.0	694.6	694.6	687.2	682.2	677.2	674.8	669.9	662.4
47.5°	640.1	635.1	625.1	612.8	612.8	612.8	602.9	595.4	595.4	590.5	588.0
50°	568.1	560.6	553.2	543.4	543.4	538.4	530.9	523.5	523.5	521.0	516.0
52.5°	501.1	496.1	486.2	476.4	476.4	471.4	463.9	461.5	459.0	451.5	449.0
55°	444.1	439.1	431.6	419.2	416.8	414.2	406.9	401.9	399.4	392.0	392.0
57.5°	392.0	387.0	374.6	367.1	364.8	359.8	352.2	347.4	344.9	339.9	334.9
60°	347.4	339.9	330.0	320.0	317.5	312.6	305.1	300.1	297.8	287.8	282.9
62.5°	305.1	297.8	287.8	277.9	275.4	270.4	260.5	255.5	250.6	240.6	235.6
65°	265.5	258.0	248.1	238.1	233.2	230.8	220.8	213.4	208.4	201.0	191.0
67.5°	228.2	220.8	210.9	198.5	198.5	191.0	183.6	176.1	168.8	161.2	153.9
70°	193.5	186.1	176.1	166.2	163.8	158.8	151.4	141.4	136.5	126.5	119.1
72.5°	161.2	153.9	143.9	134.0	131.5	126.5	119.1	109.1	101.8	94.2	86.9
75°	131.5	124.0	114.1	106.6	104.2	99.2	91.8	81.9	74.4	69.5	62.0
77.5°	104.2	96.8	89.2	81.9	79.4	74.4	67.0	62.0	54.6	49.6	42.1
80°	79.4	74.4	67.0	62.0	59.5	54.6	49.6	42.1	37.2	32.2	29.8
82.5°	57.0	52.1	47.1	39.8	39.8	34.8	32.2	27.2	22.4	19.9	17.4
85°	32.2	27.2	24.8	22.4	19.9	19.9	17.4	14.9	12.4	9.9	9.9
87.5°	9.9	9.9	7.5	7.5	7.5	7.5	5.0	5.0	5.0	5.0	5.0
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: P252503

CATALOG NUMBER: LE\_6B40D010 EC6B30509727 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2
2.5°	1773.9	1776.2	1771.4	1776.2	1771.4	1773.9	1768.9	1773.9	1768.9	1773.9	1763.9
5°	1756.5	1756.5	1749.0	1754.0	1749.0	1751.5	1741.6	1744.0	1739.1	1744.0	1734.1
7.5°	1726.8	1729.1	1716.8	1721.8	1714.2	1714.2	1706.9	1709.4	1701.9	1704.4	1696.9
10°	1692.0	1689.5	1677.1	1682.0	1672.1	1672.1	1664.6	1664.6	1654.8	1657.2	1647.2
12.5°	1642.4	1639.9	1625.0	1630.0	1620.0	1620.0	1612.6	1612.6	1602.6	1607.6	1597.6
15°	1585.2	1582.8	1567.9	1570.4	1560.5	1560.5	1550.5	1553.0	1545.6	1550.5	1540.6
17.5°	1520.8	1518.2	1503.4	1505.9	1493.5	1496.0	1488.5	1486.0	1481.1	1483.6	1476.1
20°	1453.8	1448.9	1434.0	1436.4	1431.5	1424.0	1419.1	1421.5	1416.6	1421.5	1414.1
22.5°	1384.4	1374.4	1362.0	1362.0	1357.0	1357.0	1349.6	1354.5	1344.6	1352.1	1347.1
25°	1305.0	1297.5	1287.6	1292.5	1282.6	1282.6	1275.1	1277.6	1272.8	1277.6	1272.8
27.5°	1228.0	1223.1	1208.2	1213.1	1205.8	1208.2	1200.8	1203.2	1200.8	1205.8	1200.8
30°	1146.1	1143.6	1133.8	1133.8	1131.2	1128.8	1126.4	1126.4	1123.9	1131.2	1126.4
32.5°	1069.2	1061.9	1051.9	1059.4	1046.9	1054.4	1049.4	1054.4	1049.4	1054.4	1051.9
35°	989.9	987.4	975.0	977.5	975.0	975.0	972.5	972.5	972.5	980.0	980.0
37.5°	905.5	903.0	895.6	898.1	893.1	890.6	890.6	895.6	895.6	900.5	900.5
40°	823.6	826.1	818.8	818.8	816.2	816.2	816.2	821.1	818.8	823.6	821.1
42.5°	741.8	741.8	734.4	736.9	734.4	736.9	736.9	741.8	741.8	744.2	741.8
45°	664.9	664.9	662.4	664.9	659.9	662.4	659.9	664.9	662.4	664.9	664.9
47.5°	588.0	588.0	588.0	585.5	585.5	585.5	585.5	585.5	583.0	588.0	585.5
50°	516.0	518.5	516.0	516.0	513.5	516.0	513.5	513.5	508.6	511.0	511.0
52.5°	451.5	451.5	446.5	446.5	446.5	444.1	444.1	444.1	441.6	441.6	436.6
55°	389.5	389.5	384.5	384.5	382.0	379.6	377.1	377.1	369.6	369.6	362.2
57.5°	332.5	330.0	322.5	322.5	317.5	315.1	312.6	310.1	305.1	300.1	297.8
60°	280.4	275.4	270.4	267.9	263.0	258.0	253.0	248.1	243.1	240.6	238.1
62.5°	230.8	223.2	218.4	215.9	210.9	203.4	198.5	193.5	188.5	186.1	181.1
65°	186.1	178.6	171.1	168.8	163.8	158.8	151.4	146.4	141.4	138.9	138.9
67.5°	146.4	138.9	129.0	129.0	124.0	119.1	114.1	109.1	106.6	109.1	109.1
70°	109.1	104.2	96.8	94.2	89.2	84.4	81.9	81.9	81.9	84.4	81.9
72.5°	81.9	74.4	69.5	67.0	64.5	62.0	62.0	62.0	59.5	62.0	62.0
75°	57.0	52.1	47.1	47.1	44.6	44.6	44.6	44.6	44.6	44.6	44.6
77.5°	39.8	34.8	32.2	32.2	32.2	29.8	29.8	29.8	29.8	29.8	29.8
80°	24.8	24.8	22.4	22.4	19.9	19.9	19.9	19.9	19.9	19.9	19.9
82.5°	14.9	14.9	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
85°	7.5	7.5	7.5	7.5	7.5	5.0	5.0	5.0	5.0	5.0	5.0
87.5°	2.5	2.5	2.5	2.5	2.5	5.0	5.0	5.0	5.0	5.0	5.0
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: P252503

CATALOG NUMBER: LE\_6B40D010 EC6B30509727 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2	1786.2
2.5°	1763.9	1771.4	1761.4	1768.9	1766.4	1763.9	1759.0	1768.9
5°	1734.1	1736.6	1726.8	1736.6	1734.1	1729.1	1724.2	1734.1
7.5°	1692.0	1699.4	1687.0	1696.9	1694.5	1689.5	1684.5	1694.5
10°	1644.9	1652.2	1642.4	1649.8	1649.8	1644.9	1637.4	1647.2
12.5°	1592.8	1597.6	1587.8	1597.6	1595.2	1590.2	1587.8	1595.2
15°	1535.6	1543.1	1533.1	1540.6	1538.1	1535.6	1533.1	1540.6
17.5°	1473.6	1481.1	1473.6	1481.1	1481.1	1473.6	1471.1	1476.1
20°	1411.6	1416.6	1409.1	1416.6	1414.1	1414.1	1409.1	1416.6
22.5°	1342.1	1349.6	1344.6	1349.6	1347.1	1347.1	1344.6	1349.6
25°	1272.8	1280.1	1272.8	1280.1	1277.6	1277.6	1272.8	1285.1
27.5°	1203.2	1208.2	1200.8	1210.6	1208.2	1203.2	1205.8	1208.2
30°	1128.8	1133.8	1128.8	1136.2	1136.2	1136.2	1131.2	1136.2
32.5°	1054.4	1061.9	1054.4	1061.9	1059.4	1059.4	1056.9	1061.9
35°	980.0	982.4	977.5	984.9	984.9	987.4	982.4	989.9
37.5°	903.0	905.5	903.0	905.5	910.5	903.0	908.0	910.5
40°	823.6	828.6	826.1	828.6	828.6	831.1	828.6	831.1
42.5°	744.2	749.2	744.2	751.8	749.2	749.2	751.8	751.8
45°	662.4	669.9	664.9	669.9	672.4	669.9	669.9	674.8
47.5°	585.5	590.5	588.0	590.5	590.5	590.5	590.5	595.4
50°	508.6	511.0	511.0	513.5	513.5	516.0	511.0	513.5
52.5°	431.6	436.6	436.6	436.6	434.1	436.6	436.6	436.6
55°	362.2	364.8	359.8	364.8	364.8	362.2	362.2	367.1
57.5°	295.2	295.2	295.2	295.2	295.2	292.8	295.2	295.2
60°	233.2	235.6	233.2	233.2	233.2	233.2	230.8	235.6
62.5°	181.1	181.1	178.6	181.1	181.1	181.1	183.6	183.6
65°	141.4	143.9	141.4	143.9	143.9	143.9	143.9	146.4
67.5°	111.6	111.6	111.6	111.6	111.6	111.6	111.6	111.6
70°	84.4	84.4	84.4	86.9	84.4	84.4	84.4	86.9
72.5°	62.0	62.0	62.0	62.0	62.0	62.0	64.5	64.5
75°	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
77.5°	29.8	29.8	29.8	32.2	29.8	32.2	29.8	29.8
80°	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
82.5°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
85°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
87.5°	5.0	5.0	5.0	5.0	2.5	2.5	2.5	2.5
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)