

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: P252399

Luminaire Tested: **LE\_6B40D010 EC6B30509727 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B40D010 EC6B30509727 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3372.5 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

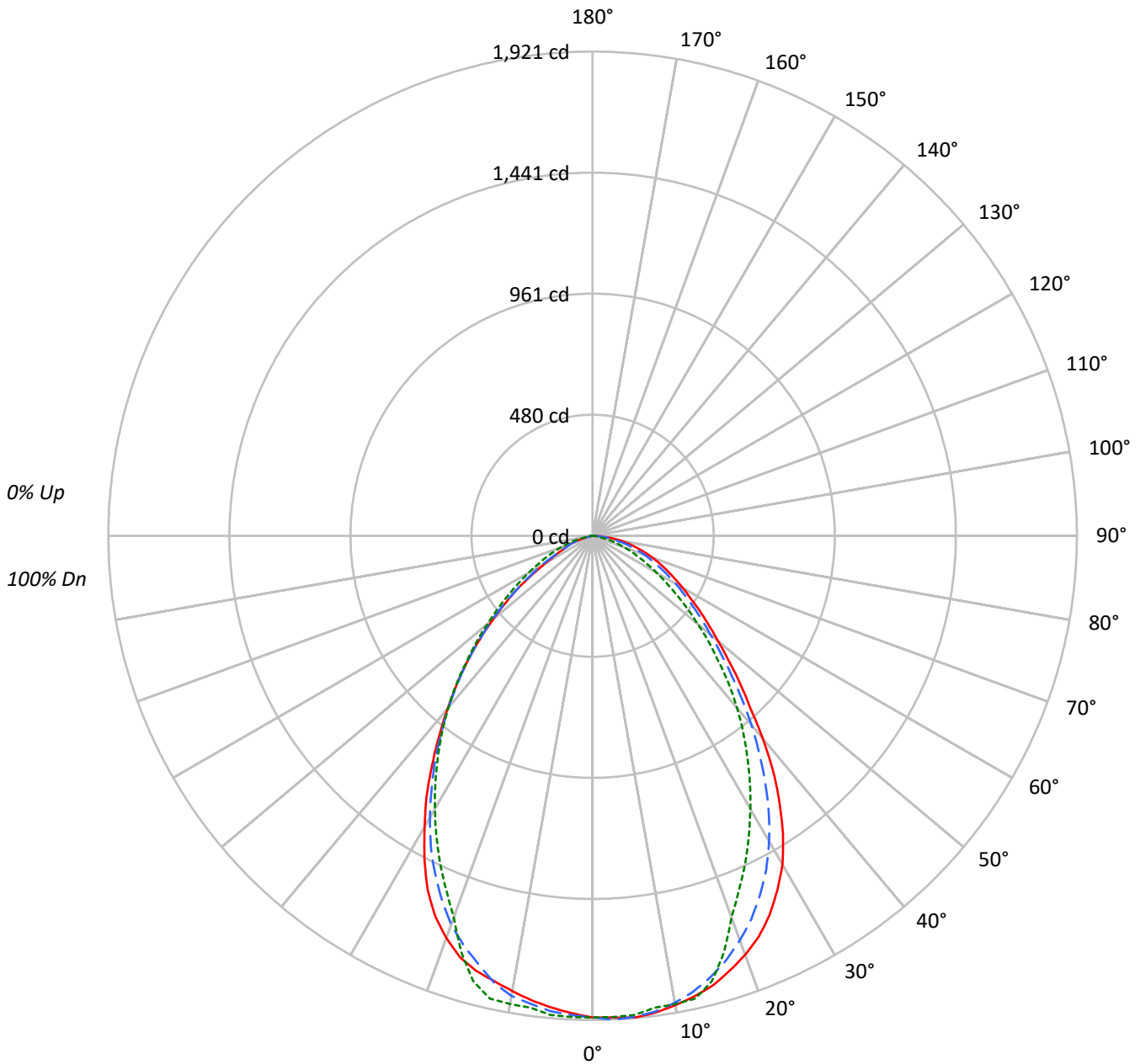
Input Watts (W): 43  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44			
8	67	55	47	42	66	54	47	42	53	46	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	40	35	45	39	35	44	39	35	33			

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

	0°	90°	180°
0°	124668	124668	124668
5°	125636	124981	123029
10°	125273	124949	121497
15°	124710	123534	120684
20°	122845	111820	117853
25°	119510	103075	111476
30°	113482	94227	100389
35°	102980	85187	88341
40°	89407	75874	76087
45°	76247	65249	64576
50°	65993	55163	52149
55°	58987	46009	40368
60°	53758	38218	27205
65°	50186	31415	20300
70°	47802	25561	17053
75°	45020	18149	5646
80°	42868	9355	1879
85°	35257	5614	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.4	5.4
10°-20°	504.7	15.0
20°-30°	696.6	20.7
30°-40°	708.9	21.0
40°-50°	569.7	16.9
50°-60°	378.8	11.2
60°-70°	215.9	6.4
70°-80°	97.0	2.9
80°-90°	20.4	0.6
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°	1381.8	41.0
0°-40°	2090.7	62.0
0°-60°	3039.3	90.1
0°-90°	3372.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3372.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1911	1911	1911	1911	1911	
5°	1918	1916	1908	1894	1879	182
15°	1846	1812	1829	1757	1787	520
25°	1660	1571	1432	1479	1549	761
35°	1293	1194	1070	1090	1109	804
45°	826	777	707	700	700	641
55°	519	484	404	360	355	466
65°	325	290	204	132	132	324
75°	179	149	72	30	22	191
85°	47	32	8	2	0	56
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°	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9
2.5°	1913.4	1923.2	1920.9	1918.4	1920.9	1918.4	1913.4	1913.4	1908.4	1908.4	1920.9
5°	1918.4	1923.2	1920.9	1918.4	1918.4	1920.9	1910.9	1910.9	1905.9	1903.5	1915.9
7.5°	1908.4	1915.9	1910.9	1910.9	1908.4	1910.9	1901.0	1901.0	1893.5	1891.0	1903.5
10°	1891.0	1901.0	1896.0	1896.0	1896.0	1891.0	1886.1	1883.6	1876.1	1873.6	1881.1
12.5°	1871.1	1878.6	1876.1	1871.1	1871.1	1871.1	1861.2	1858.8	1848.9	1843.9	1851.4
15°	1846.4	1851.4	1848.9	1846.4	1841.4	1841.4	1831.5	1826.5	1816.6	1806.6	1811.6
17.5°	1809.1	1816.6	1811.6	1809.1	1801.8	1801.8	1791.8	1786.8	1771.9	1762.0	1764.5
20°	1769.4	1771.9	1769.4	1764.5	1757.0	1754.5	1744.6	1734.8	1722.2	1709.9	1707.4
22.5°	1722.2	1724.8	1717.4	1712.4	1704.9	1702.4	1690.0	1682.6	1662.8	1647.9	1645.4
25°	1660.2	1662.8	1662.8	1650.2	1645.4	1640.4	1628.0	1615.6	1598.2	1578.4	1570.9
27.5°	1585.8	1593.2	1588.2	1575.9	1565.9	1563.5	1551.0	1541.1	1518.8	1501.4	1491.5
30°	1506.4	1503.9	1501.4	1494.0	1479.1	1476.6	1464.1	1451.8	1434.4	1412.1	1399.6
32.5°	1404.6	1404.6	1402.1	1394.8	1379.8	1374.9	1364.9	1350.0	1330.1	1312.8	1300.4
35°	1293.0	1295.4	1293.0	1278.0	1268.1	1263.1	1258.2	1240.9	1223.5	1203.6	1193.6
37.5°	1176.2	1168.9	1171.4	1159.0	1146.5	1151.5	1136.6	1129.1	1109.2	1094.4	1084.5
40°	1049.8	1054.8	1044.8	1039.9	1032.4	1024.9	1024.9	1012.5	1002.6	985.2	980.2
42.5°	925.6	933.1	930.6	925.6	915.8	918.2	905.8	900.9	888.5	881.0	873.5
45°	826.4	826.4	826.4	821.4	819.0	814.0	806.5	799.1	791.6	781.8	776.8
47.5°	729.6	729.6	732.1	727.1	722.1	719.6	714.8	714.8	702.4	692.4	687.4
50°	650.2	650.2	650.2	645.2	640.2	640.2	635.2	630.4	622.9	615.5	610.5
52.5°	578.2	578.2	578.2	573.2	570.8	568.2	565.9	563.4	553.4	548.5	543.5
55°	518.6	516.2	516.2	513.8	508.8	508.8	506.2	501.2	493.9	486.4	483.9
57.5°	459.1	461.6	459.1	459.1	454.1	454.1	449.1	446.8	439.2	434.2	429.4
60°	412.0	412.0	412.0	409.5	404.5	407.0	402.0	399.5	392.1	384.6	379.8
62.5°	364.8	367.2	367.2	364.8	359.9	359.9	357.4	354.9	347.4	340.0	332.5
65°	325.1	325.1	325.1	322.6	320.1	320.1	317.6	315.1	307.8	297.8	290.4
67.5°	287.9	285.4	285.4	285.4	282.9	280.4	278.0	275.5	268.0	260.6	250.6
70°	250.6	250.6	250.6	248.1	243.2	245.6	243.2	240.8	233.2	225.9	218.4
72.5°	215.9	215.9	213.4	211.0	211.0	208.5	208.5	206.0	198.5	188.6	181.1
75°	178.6	178.6	178.6	178.6	173.8	176.2	171.2	168.8	163.8	156.4	148.9
77.5°	146.4	146.4	146.4	143.9	141.5	141.5	139.0	136.5	129.0	124.1	114.1
80°	114.1	114.1	114.1	114.1	111.6	109.2	106.8	104.2	99.2	91.9	84.4
82.5°	84.4	84.4	81.9	81.9	81.9	79.4	76.9	74.5	69.5	64.5	59.5
85°	47.1	49.6	49.6	44.6	47.1	44.6	44.6	39.8	39.8	34.8	32.2
87.5°	17.4	14.9	14.9	14.9	14.9	14.9	14.9	12.4	12.4	12.4	9.9
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°	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9
2.5°	1910.9	1908.4	1918.4	1918.4	1903.5	1910.9	1913.4	1908.4	1908.4	1910.9	1903.5
5°	1905.9	1901.0	1910.9	1913.4	1898.5	1905.9	1908.4	1903.5	1905.9	1908.4	1898.5
7.5°	1888.5	1888.5	1896.0	1898.5	1883.6	1891.0	1891.0	1886.1	1888.5	1888.5	1881.1
10°	1871.1	1863.8	1871.1	1871.1	1858.8	1861.2	1866.2	1863.8	1873.6	1886.1	1886.1
12.5°	1838.9	1831.5	1843.9	1843.9	1836.4	1846.4	1858.8	1866.2	1876.1	1881.1	1866.2
15°	1799.2	1801.8	1824.0	1841.4	1834.0	1848.9	1861.2	1856.2	1843.9	1829.0	1806.6
17.5°	1747.1	1739.6	1759.5	1769.4	1759.5	1764.5	1774.4	1764.5	1744.6	1732.2	1702.4
20°	1687.5	1667.6	1667.6	1662.8	1645.4	1645.4	1642.9	1625.5	1618.0	1610.6	1598.2
22.5°	1620.5	1598.2	1590.8	1575.9	1561.0	1558.5	1551.0	1533.6	1523.8	1518.8	1503.9
25°	1543.6	1523.8	1511.4	1496.5	1474.1	1469.1	1461.8	1444.4	1439.4	1431.9	1419.5
27.5°	1464.1	1439.4	1422.0	1407.1	1387.2	1384.8	1369.9	1357.5	1347.5	1342.6	1332.6
30°	1372.4	1345.1	1332.6	1312.8	1297.9	1293.0	1280.5	1263.1	1255.8	1250.8	1243.4
32.5°	1270.6	1248.2	1235.9	1218.5	1198.6	1201.1	1186.2	1171.4	1166.4	1161.4	1154.0
35°	1171.4	1149.0	1134.1	1119.2	1106.9	1101.9	1091.9	1079.5	1072.1	1069.6	1064.6
37.5°	1062.1	1044.8	1032.4	1017.5	1007.5	1002.6	997.6	985.2	980.2	980.2	970.4
40°	955.5	940.5	930.6	923.1	910.8	908.2	903.4	895.9	893.4	890.9	883.5
42.5°	858.6	838.8	831.4	826.4	819.0	814.0	811.5	806.5	804.0	801.6	794.1
45°	766.9	749.5	742.0	737.0	729.6	727.1	724.6	717.2	712.2	707.2	704.8
47.5°	677.5	665.1	662.6	650.2	645.2	640.2	635.2	630.4	627.9	625.4	615.5
50°	600.6	593.1	580.8	573.2	568.2	565.9	555.9	548.5	546.0	543.5	536.0
52.5°	531.1	521.1	513.8	501.2	498.9	493.9	488.9	479.0	474.0	471.5	464.1
55°	469.0	461.6	451.6	441.8	434.2	431.8	424.4	414.5	409.5	404.5	399.5
57.5°	416.9	404.5	394.6	384.6	379.8	372.2	364.8	359.9	352.4	345.0	337.5
60°	367.2	357.4	345.0	335.0	330.0	325.1	315.1	307.8	300.2	292.9	285.4
62.5°	320.1	310.2	297.8	287.9	282.9	278.0	268.0	260.6	253.1	245.6	235.8
65°	278.0	268.0	258.1	248.1	243.2	238.2	228.4	218.4	211.0	203.5	193.6
67.5°	243.2	230.8	220.9	211.0	206.0	201.0	191.1	183.6	173.8	166.2	156.4
70°	206.0	196.0	188.6	178.6	173.8	168.8	158.9	148.9	141.5	134.0	124.1
72.5°	173.8	161.2	153.9	143.9	139.0	136.5	126.6	119.1	111.6	101.8	94.2
75°	139.0	129.0	119.1	111.6	106.8	104.2	94.2	86.9	79.4	72.0	64.5
77.5°	106.8	99.2	89.4	81.9	76.9	74.5	64.5	57.1	49.6	44.6	37.2
80°	79.4	69.5	64.5	57.1	54.6	49.6	44.6	37.2	32.2	24.9	19.9
82.5°	54.6	47.1	42.2	37.2	34.8	32.2	27.2	22.4	17.4	14.9	12.4
85°	29.8	24.9	22.4	19.9	17.4	17.4	14.9	12.4	9.9	7.5	5.0
87.5°	9.9	7.5	7.5	7.5	7.5	5.0	5.0	5.0	2.5	2.5	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9
2.5°	1908.4	1908.4	1908.4	1905.9	1905.9	1905.9	1903.5	1913.4	1903.5	1901.0	1908.4
5°	1905.9	1901.0	1901.0	1901.0	1901.0	1898.5	1896.0	1901.0	1893.5	1891.0	1891.0
7.5°	1891.0	1888.5	1888.5	1886.1	1883.6	1881.1	1878.6	1881.1	1873.6	1871.1	1871.1
10°	1893.5	1888.5	1888.5	1881.1	1876.1	1868.8	1861.2	1863.8	1853.8	1846.4	1846.4
12.5°	1863.8	1851.4	1843.9	1836.4	1831.5	1829.0	1819.1	1824.0	1814.1	1811.6	1811.6
15°	1796.8	1781.9	1769.4	1764.5	1764.5	1759.5	1752.0	1762.0	1757.0	1759.5	1771.9
17.5°	1692.5	1685.0	1677.6	1675.1	1677.6	1682.6	1687.5	1702.4	1702.4	1709.9	1722.2
20°	1600.6	1595.8	1600.6	1600.6	1603.1	1613.1	1623.0	1635.4	1640.4	1647.9	1665.2
22.5°	1511.4	1511.4	1516.2	1523.8	1521.2	1538.6	1541.1	1563.5	1563.5	1578.4	1593.2
25°	1424.5	1424.5	1429.5	1431.9	1436.9	1446.9	1456.8	1474.1	1479.1	1494.0	1506.4
27.5°	1340.1	1337.6	1337.6	1340.1	1345.1	1357.5	1362.4	1382.2	1389.8	1399.6	1412.1
30°	1245.8	1243.4	1248.2	1253.2	1250.8	1263.1	1270.6	1285.5	1290.5	1300.4	1310.4
32.5°	1156.5	1156.5	1156.5	1161.4	1161.4	1171.4	1171.4	1188.8	1188.8	1196.1	1206.1
35°	1064.6	1064.6	1067.1	1069.6	1072.1	1074.6	1077.0	1087.0	1089.5	1091.9	1096.9
37.5°	977.8	975.2	977.8	977.8	972.9	982.8	982.8	992.6	985.2	992.6	995.1
40°	888.5	888.5	886.0	886.0	886.0	890.9	886.0	893.4	888.5	893.4	890.9
42.5°	796.6	796.6	791.6	796.6	794.1	794.1	794.1	799.1	791.6	796.6	799.1
45°	704.8	702.4	702.4	699.9	699.9	699.9	702.4	702.4	699.9	704.8	704.8
47.5°	615.5	613.0	613.0	613.0	613.0	615.5	608.0	613.0	608.0	608.0	608.0
50°	538.5	536.0	533.5	531.1	528.6	528.6	526.1	526.1	521.1	518.6	516.2
52.5°	464.1	461.6	456.6	456.6	454.1	451.6	444.2	444.2	436.8	434.2	434.2
55°	397.1	389.6	387.1	382.1	382.1	377.2	372.2	367.2	359.9	354.9	354.9
57.5°	335.0	327.6	322.6	320.1	317.6	312.8	302.8	300.2	290.4	287.9	285.4
60°	280.4	273.0	265.5	260.6	258.1	250.6	240.8	235.8	230.8	223.4	215.9
62.5°	228.4	220.9	211.0	208.5	203.5	196.0	188.6	181.1	176.2	168.8	163.8
65°	183.6	176.2	168.8	163.8	158.9	151.4	143.9	136.5	131.5	129.0	126.6
67.5°	148.9	139.0	131.5	129.0	124.1	119.1	111.6	109.2	104.2	104.2	104.2
70°	116.6	109.2	101.8	99.2	96.8	91.9	86.9	86.9	86.9	86.9	86.9
72.5°	86.9	81.9	74.5	72.0	69.5	67.0	62.0	64.5	62.0	62.0	62.0
75°	54.6	49.6	44.6	42.2	39.8	37.2	34.8	32.2	29.8	27.2	27.2
77.5°	29.8	24.9	22.4	19.9	19.9	17.4	14.9	14.9	12.4	12.4	12.4
80°	17.4	14.9	12.4	9.9	9.9	7.5	7.5	7.5	7.5	5.0	5.0
82.5°	9.9	7.5	5.0	5.0	5.0	5.0	2.5	2.5	2.5	2.5	2.5
85°	5.0	5.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0.0
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	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	0.0	0.0	0.0





TEST NUMBER: P252399

CATALOG NUMBER: LE\_6B40D010 EC6B30509727 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9
2.5°	1896.0	1903.5	1896.0	1903.5	1903.5	1903.5	1903.5	1896.0
5°	1883.6	1888.5	1881.1	1886.1	1888.5	1886.1	1886.1	1878.6
7.5°	1861.2	1866.2	1858.8	1866.2	1868.8	1866.2	1863.8	1858.8
10°	1838.9	1841.4	1834.0	1838.9	1843.9	1843.9	1841.4	1834.0
12.5°	1804.1	1811.6	1804.1	1809.1	1814.1	1816.6	1816.6	1809.1
15°	1764.5	1776.9	1771.9	1779.4	1786.8	1789.2	1789.2	1786.8
17.5°	1724.8	1737.1	1729.8	1742.1	1749.6	1754.5	1757.0	1752.0
20°	1667.6	1682.6	1677.6	1687.5	1697.5	1704.9	1704.9	1697.5
22.5°	1593.2	1613.1	1610.6	1618.0	1630.5	1633.0	1637.9	1633.0
25°	1511.4	1526.2	1523.8	1531.2	1546.1	1546.1	1548.6	1548.6
27.5°	1417.0	1431.9	1429.5	1434.4	1444.4	1446.9	1449.2	1444.4
30°	1315.2	1322.8	1322.8	1330.1	1337.6	1340.1	1340.1	1332.6
32.5°	1203.6	1213.5	1218.5	1216.0	1223.5	1228.4	1226.0	1226.0
35°	1101.9	1104.4	1106.9	1109.2	1111.8	1116.8	1111.8	1109.2
37.5°	992.6	1000.1	995.1	1000.1	1005.1	1002.6	1000.1	1000.1
40°	893.4	895.9	890.9	895.9	898.4	898.4	898.4	893.4
42.5°	794.1	799.1	794.1	799.1	799.1	799.1	799.1	796.6
45°	694.9	699.9	699.9	702.4	702.4	699.9	699.9	699.9
47.5°	603.0	608.0	603.0	608.0	610.5	605.5	605.5	605.5
50°	516.2	513.8	513.8	516.2	516.2	516.2	516.2	513.8
52.5°	426.9	429.4	429.4	429.4	431.8	429.4	431.8	431.8
55°	349.9	349.9	349.9	352.4	349.9	349.9	352.4	354.9
57.5°	280.4	278.0	275.5	275.5	278.0	275.5	275.5	275.5
60°	215.9	213.4	211.0	211.0	211.0	211.0	211.0	208.5
62.5°	161.2	161.2	161.2	163.8	163.8	163.8	163.8	166.2
65°	129.0	129.0	129.0	129.0	129.0	129.0	129.0	131.5
67.5°	104.2	104.2	104.2	106.8	106.8	106.8	106.8	106.8
70°	86.9	86.9	89.4	86.9	89.4	89.4	89.4	89.4
72.5°	59.5	59.5	59.5	59.5	59.5	57.1	59.5	57.1
75°	24.9	24.9	24.9	24.9	24.9	24.9	24.9	22.4
77.5°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
80°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	2.5	2.5	2.5	2.5	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)