

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: P252480

Luminaire Tested: **LE\_6B30D010 EC6B30508030 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252480  
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\_6B30D010 EC6B30508030 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3136.2 lumens  
Efficiency: N/A  
Efficacy: 112.0 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

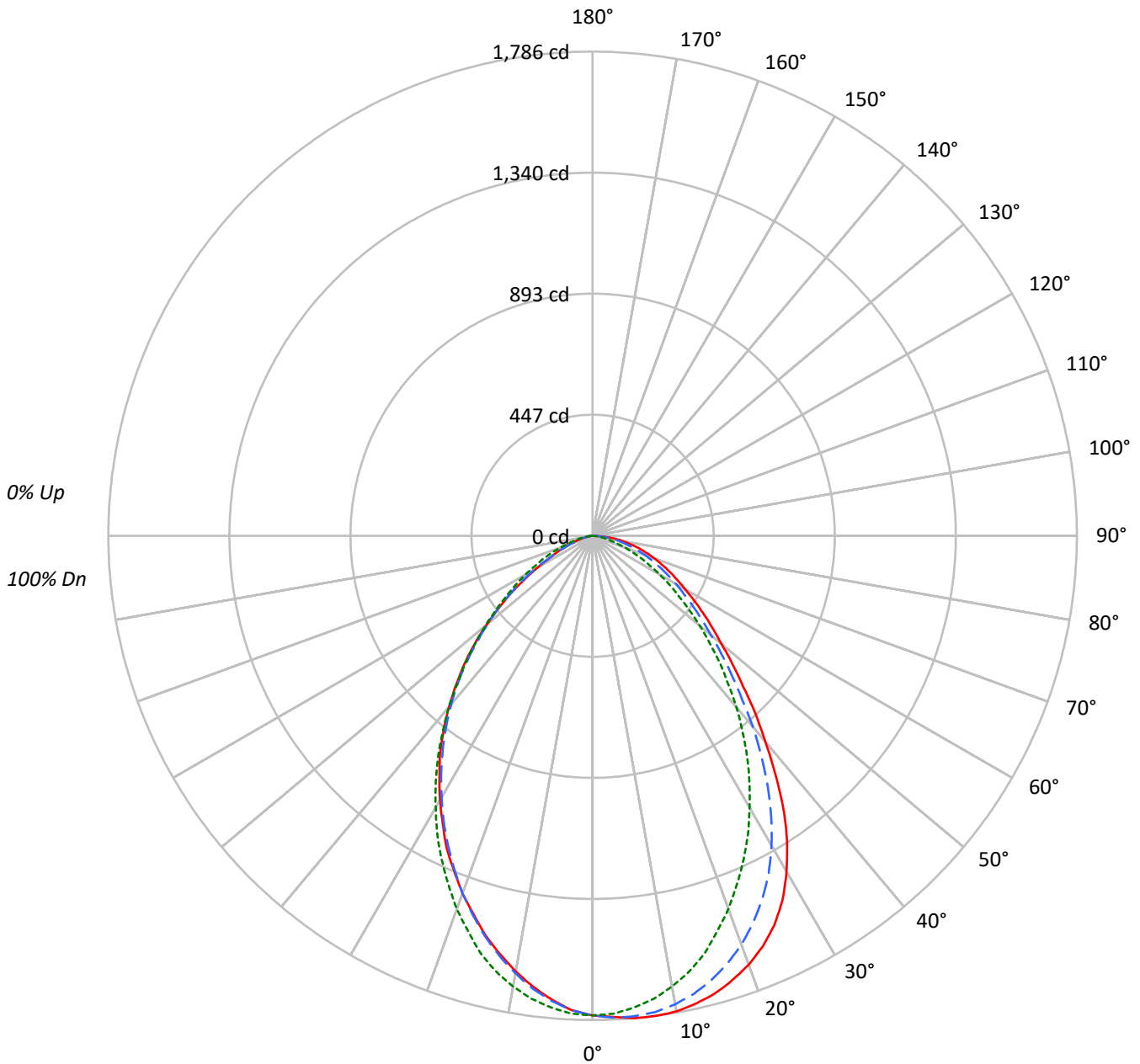
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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				100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33

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

	0°	90°	180°
0°	115424	115424	115424
5°	116998	114424	112498
10°	118026	111838	108102
15°	118009	107723	103069
20°	116861	101684	97414
25°	114096	94812	91630
30°	107742	87191	84788
35°	97660	79071	78091
40°	84348	70313	70108
45°	72326	61217	61669
50°	62847	52372	51621
55°	56462	44155	41380
60°	51292	37187	30467
65°	48180	30720	22384
70°	45952	23920	16405
75°	43986	17342	11142
80°	41553	12023	7364
85°	36754	7411	3668



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.5	5.3
10°-20°	453.3	14.5
20°-30°	629.3	20.1
30°-40°	651.8	20.8
40°-50°	535.6	17.1
50°-60°	368.1	11.7
60°-70°	211.6	6.7
70°-80°	97.3	3.1
80°-90°	23.7	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°	1248.1	39.8
0°-40°	1899.9	60.6
0°-60°	2803.7	89.4
0°-90°	3136.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3136.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1769	1769	1769	1769	1769	
5°	1786	1779	1747	1723	1718	170
15°	1747	1696	1595	1531	1526	492
25°	1585	1479	1317	1261	1273	725
35°	1226	1126	993	963	980	760
45°	784	725	664	656	668	611
55°	496	450	388	366	364	447
65°	312	273	199	140	145	311
75°	174	138	69	44	44	184
85°	49	34	10	5	5	55
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°	1769.2	1769.2	1769.2	1769.2	1769.2	1769.2	1769.2	1769.2	1769.2	1769.2	1769.2
2.5°	1776.6	1791.4	1781.6	1779.1	1784.0	1784.0	1784.0	1776.6	1781.6	1774.2	1779.1
5°	1786.5	1798.8	1789.0	1784.0	1789.0	1791.4	1784.0	1779.1	1786.5	1776.6	1779.1
7.5°	1786.5	1798.8	1789.0	1786.5	1789.0	1789.0	1786.5	1776.6	1781.6	1771.8	1771.8
10°	1781.6	1791.4	1781.6	1776.6	1779.1	1776.6	1776.6	1764.4	1766.9	1754.6	1754.6
12.5°	1766.9	1779.1	1766.9	1761.9	1761.9	1761.9	1754.6	1744.8	1747.2	1732.5	1730.0
15°	1747.2	1757.0	1744.8	1739.9	1739.9	1737.4	1732.5	1717.8	1717.8	1703.0	1695.6
17.5°	1717.8	1727.5	1717.8	1710.4	1707.9	1703.0	1698.0	1683.2	1678.4	1661.1	1653.9
20°	1683.2	1690.6	1680.9	1673.5	1668.5	1663.6	1653.9	1639.1	1634.1	1617.0	1604.6
22.5°	1639.1	1648.9	1634.1	1626.8	1621.9	1614.5	1604.6	1589.9	1582.5	1560.4	1545.8
25°	1585.0	1589.9	1577.6	1570.2	1560.4	1555.5	1548.1	1528.5	1521.1	1496.5	1479.4
27.5°	1516.2	1521.1	1506.4	1501.5	1489.1	1484.2	1474.4	1457.2	1447.4	1422.9	1405.6
30°	1430.2	1435.1	1425.2	1417.9	1408.1	1398.2	1390.9	1373.6	1358.9	1334.4	1319.6
32.5°	1334.4	1341.8	1331.9	1322.1	1304.9	1307.4	1295.0	1277.9	1265.5	1243.4	1226.2
35°	1226.2	1231.1	1218.9	1216.4	1206.6	1196.8	1184.5	1172.1	1164.8	1140.2	1125.5
37.5°	1105.9	1118.1	1105.9	1096.0	1091.1	1083.8	1076.4	1059.1	1054.2	1039.5	1019.8
40°	990.4	997.8	990.4	980.5	973.1	973.1	963.2	953.5	941.1	926.4	919.0
42.5°	887.1	882.2	879.8	874.9	865.0	862.5	860.1	847.8	840.4	825.6	813.4
45°	783.9	786.4	781.5	779.0	771.6	766.8	761.8	752.0	749.5	734.8	724.9
47.5°	697.9	695.4	690.5	690.5	685.6	680.8	675.8	668.4	666.0	653.6	643.9
50°	619.2	621.8	619.2	616.8	609.4	607.0	602.0	597.1	592.2	580.0	570.1
52.5°	555.4	552.9	550.5	550.5	543.1	540.6	535.8	530.8	525.9	513.6	506.2
55°	496.4	496.4	493.9	491.5	484.1	481.6	479.2	474.2	466.9	457.1	449.8
57.5°	442.4	442.4	439.9	437.4	432.5	432.5	427.6	422.6	417.8	407.9	398.1
60°	393.1	395.6	393.1	390.8	385.8	385.8	383.4	376.0	373.5	361.2	353.9
62.5°	351.4	351.4	351.4	349.0	346.5	341.6	341.6	334.2	329.2	321.9	312.1
65°	312.1	312.1	312.1	309.6	304.8	302.2	299.8	294.9	290.0	282.6	272.8
67.5°	275.2	275.2	275.2	272.8	267.9	265.4	263.0	260.5	253.1	245.8	235.9
70°	240.9	240.9	238.4	235.9	233.5	231.0	228.5	223.6	218.8	208.9	201.5
72.5°	206.4	206.4	206.4	201.5	199.0	199.0	194.1	191.6	186.8	176.9	169.5
75°	174.5	172.0	172.0	169.5	167.1	164.6	162.1	159.8	152.4	147.5	137.6
77.5°	142.5	142.5	140.1	137.6	137.6	135.1	132.8	127.8	125.4	118.0	110.6
80°	110.6	110.6	110.6	110.6	108.1	105.6	105.6	100.8	98.2	90.9	86.0
82.5°	83.5	81.1	81.1	81.1	78.6	76.1	76.1	73.8	71.2	66.4	61.4
85°	49.1	46.8	46.8	46.8	44.2	44.2	41.8	41.8	39.4	34.4	34.4
87.5°	14.8	14.8	17.2	17.2	14.8	14.8	14.8	14.8	14.8	12.2	12.2
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°	1769.2	1769.2	1769.2	1769.2	1769.2	1769.2	1769.2	1769.2	1769.2	1769.2	1769.2
2.5°	1774.2	1781.6	1771.8	1769.2	1779.1	1774.2	1771.8	1766.9	1769.2	1764.4	1757.0
5°	1771.8	1781.6	1769.2	1761.9	1774.2	1766.9	1761.9	1757.0	1757.0	1747.2	1742.2
7.5°	1764.4	1769.2	1757.0	1749.6	1757.0	1749.6	1744.8	1737.4	1734.9	1722.6	1715.2
10°	1744.8	1749.6	1734.9	1725.1	1732.5	1722.6	1715.2	1707.9	1703.0	1688.2	1678.4
12.5°	1717.8	1720.1	1703.0	1690.6	1695.6	1688.2	1675.9	1666.1	1661.1	1646.5	1634.1
15°	1680.9	1683.2	1663.6	1646.5	1651.4	1641.5	1626.8	1617.0	1609.6	1594.9	1577.6
17.5°	1636.6	1634.1	1612.0	1594.9	1597.2	1585.0	1570.2	1555.5	1545.8	1528.5	1516.2
20°	1587.5	1580.1	1555.5	1535.9	1538.4	1523.6	1506.4	1491.6	1479.4	1464.6	1447.4
22.5°	1526.0	1516.2	1494.1	1469.5	1472.0	1459.6	1435.1	1422.9	1410.5	1390.9	1376.1
25°	1459.6	1444.9	1422.9	1398.2	1398.2	1383.5	1363.9	1349.1	1336.8	1317.1	1300.0
27.5°	1381.0	1373.6	1344.1	1324.5	1322.1	1307.4	1290.1	1272.9	1258.1	1241.0	1223.8
30°	1295.0	1282.8	1260.6	1238.5	1233.6	1221.4	1204.1	1184.5	1174.6	1157.4	1142.6
32.5°	1204.1	1191.9	1167.2	1145.1	1142.6	1132.9	1118.1	1098.5	1088.6	1076.4	1066.5
35°	1100.9	1096.0	1071.4	1054.2	1054.2	1044.4	1029.6	1012.5	1005.1	992.8	980.5
37.5°	1002.6	995.2	973.1	958.4	958.4	946.1	931.4	924.0	916.6	906.8	899.4
40°	899.4	894.5	877.2	862.5	865.0	855.1	845.4	835.5	830.6	825.6	818.2
42.5°	803.5	798.6	786.4	774.1	774.1	766.8	756.9	749.5	744.6	737.2	734.8
45°	717.5	710.1	700.4	688.1	688.1	680.8	675.8	670.9	668.4	663.5	656.1
47.5°	634.0	629.1	619.2	607.0	607.0	607.0	597.1	589.8	589.8	584.9	582.4
50°	562.8	555.4	548.0	538.1	538.1	533.2	525.9	518.5	518.5	516.0	511.1
52.5°	496.4	491.5	481.6	471.9	471.9	466.9	459.5	457.1	454.6	447.2	444.8
55°	439.9	435.0	427.6	415.2	412.9	410.4	403.0	398.1	395.6	388.2	388.2
57.5°	388.2	383.4	371.1	363.8	361.2	356.4	349.0	344.0	341.6	336.6	331.8
60°	344.0	336.6	326.9	317.0	314.5	309.6	302.2	297.4	294.9	285.0	280.1
62.5°	302.2	294.9	285.0	275.2	272.8	267.9	258.0	253.1	248.2	238.4	233.5
65°	263.0	255.6	245.8	235.9	231.0	228.5	218.8	211.4	206.4	199.0	189.2
67.5°	226.1	218.8	208.9	196.6	196.6	189.2	181.9	174.5	167.1	159.8	152.4
70°	191.6	184.2	174.5	164.6	162.1	157.2	149.9	140.1	135.1	125.4	118.0
72.5°	159.8	152.4	142.5	132.8	130.2	125.4	118.0	108.1	100.8	93.4	86.0
75°	130.2	122.9	113.0	105.6	103.2	98.2	90.9	81.1	73.8	68.8	61.4
77.5°	103.2	95.9	88.5	81.1	78.6	73.8	66.4	61.4	54.0	49.1	41.8
80°	78.6	73.8	66.4	61.4	59.0	54.0	49.1	41.8	36.9	32.0	29.5
82.5°	56.5	51.6	46.8	39.4	39.4	34.4	32.0	27.0	22.1	19.6	17.2
85°	32.0	27.0	24.6	22.1	19.6	19.6	17.2	14.8	12.2	9.9	9.9
87.5°	9.9	9.9	7.4	7.4	7.4	7.4	4.9	4.9	4.9	4.9	4.9
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1769.2	1769.2	1769.2	1769.2	1769.2	1769.2	1769.2	1769.2	1769.2	1769.2	1769.2
2.5°	1757.0	1759.5	1754.6	1759.5	1754.6	1757.0	1752.1	1757.0	1752.1	1757.0	1747.2
5°	1739.9	1739.9	1732.5	1737.4	1732.5	1734.9	1725.1	1727.5	1722.6	1727.5	1717.8
7.5°	1710.4	1712.8	1700.5	1705.4	1698.0	1698.0	1690.6	1693.1	1685.8	1688.2	1680.9
10°	1675.9	1673.5	1661.1	1666.1	1656.2	1656.2	1648.9	1648.9	1639.1	1641.5	1631.8
12.5°	1626.8	1624.4	1609.6	1614.5	1604.6	1604.6	1597.2	1597.2	1587.5	1592.4	1582.5
15°	1570.2	1567.8	1553.0	1555.5	1545.8	1545.8	1535.9	1538.4	1531.0	1535.9	1526.0
17.5°	1506.4	1503.9	1489.1	1491.6	1479.4	1481.8	1474.4	1472.0	1467.0	1469.5	1462.1
20°	1440.0	1435.1	1420.4	1422.9	1417.9	1410.5	1405.6	1408.1	1403.1	1408.1	1400.8
22.5°	1371.2	1361.4	1349.1	1349.1	1344.1	1344.1	1336.8	1341.8	1331.9	1339.2	1334.4
25°	1292.6	1285.2	1275.4	1280.2	1270.5	1270.5	1263.1	1265.5	1260.6	1265.5	1260.6
27.5°	1216.4	1211.5	1196.8	1201.6	1194.2	1196.8	1189.4	1191.9	1189.4	1194.2	1189.4
30°	1135.2	1132.9	1123.0	1123.0	1120.6	1118.1	1115.6	1115.6	1113.2	1120.6	1115.6
32.5°	1059.1	1051.8	1041.9	1049.2	1037.0	1044.4	1039.5	1044.4	1039.5	1044.4	1041.9
35°	980.5	978.0	965.8	968.2	965.8	965.8	963.2	963.2	963.2	970.6	970.6
37.5°	897.0	894.5	887.1	889.6	884.6	882.2	882.2	887.1	887.1	892.0	892.0
40°	815.9	818.2	810.9	810.9	808.5	808.5	808.5	813.4	810.9	815.9	813.4
42.5°	734.8	734.8	727.4	729.9	727.4	729.9	729.9	734.8	734.8	737.2	734.8
45°	658.6	658.6	656.1	658.6	653.6	656.1	653.6	658.6	656.1	658.6	658.6
47.5°	582.4	582.4	582.4	580.0	580.0	580.0	580.0	580.0	577.5	582.4	580.0
50°	511.1	513.6	511.1	511.1	508.6	511.1	508.6	508.6	503.8	506.2	506.2
52.5°	447.2	447.2	442.4	442.4	442.4	439.9	439.9	439.9	437.4	437.4	432.5
55°	385.8	385.8	380.9	380.9	378.4	376.0	373.5	373.5	366.1	366.1	358.8
57.5°	329.2	326.9	319.5	319.5	314.5	312.1	309.6	307.1	302.2	297.4	294.9
60°	277.6	272.8	267.9	265.4	260.5	255.6	250.6	245.8	240.9	238.4	235.9
62.5°	228.5	221.1	216.2	213.8	208.9	201.5	196.6	191.6	186.8	184.2	179.4
65°	184.2	176.9	169.5	167.1	162.1	157.2	149.9	145.0	140.1	137.6	137.6
67.5°	145.0	137.6	127.8	127.8	122.9	118.0	113.0	108.1	105.6	108.1	108.1
70°	108.1	103.2	95.9	93.4	88.5	83.5	81.1	81.1	81.1	83.5	81.1
72.5°	81.1	73.8	68.8	66.4	63.9	61.4	61.4	61.4	59.0	61.4	61.4
75°	56.5	51.6	46.8	46.8	44.2	44.2	44.2	44.2	44.2	44.2	44.2
77.5°	39.4	34.4	32.0	32.0	32.0	29.5	29.5	29.5	29.5	29.5	29.5
80°	24.6	24.6	22.1	22.1	19.6	19.6	19.6	19.6	19.6	19.6	19.6
82.5°	14.8	14.8	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
85°	7.4	7.4	7.4	7.4	7.4	4.9	4.9	4.9	4.9	4.9	4.9
87.5°	2.5	2.5	2.5	2.5	2.5	4.9	4.9	4.9	4.9	4.9	4.9
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: P252480

CATALOG NUMBER: LE\_6B30D010 EC6B30508030 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1769.2	1769.2	1769.2	1769.2	1769.2	1769.2	1769.2	1769.2
2.5°	1747.2	1754.6	1744.8	1752.1	1749.6	1747.2	1742.2	1752.1
5°	1717.8	1720.1	1710.4	1720.1	1717.8	1712.8	1707.9	1717.8
7.5°	1675.9	1683.2	1671.0	1680.9	1678.4	1673.5	1668.5	1678.4
10°	1629.2	1636.6	1626.8	1634.1	1634.1	1629.2	1621.9	1631.8
12.5°	1577.6	1582.5	1572.8	1582.5	1580.1	1575.1	1572.8	1580.1
15°	1521.1	1528.5	1518.6	1526.0	1523.6	1521.1	1518.6	1526.0
17.5°	1459.6	1467.0	1459.6	1467.0	1467.0	1459.6	1457.2	1462.1
20°	1398.2	1403.1	1395.8	1403.1	1400.8	1400.8	1395.8	1403.1
22.5°	1329.5	1336.8	1331.9	1336.8	1334.4	1334.4	1331.9	1336.8
25°	1260.6	1268.0	1260.6	1268.0	1265.5	1265.5	1260.6	1272.9
27.5°	1191.9	1196.8	1189.4	1199.2	1196.8	1191.9	1194.2	1196.8
30°	1118.1	1123.0	1118.1	1125.5	1125.5	1125.5	1120.6	1125.5
32.5°	1044.4	1051.8	1044.4	1051.8	1049.2	1049.2	1046.9	1051.8
35°	970.6	973.1	968.2	975.6	975.6	978.0	973.1	980.5
37.5°	894.5	897.0	894.5	897.0	901.9	894.5	899.4	901.9
40°	815.9	820.8	818.2	820.8	820.8	823.2	820.8	823.2
42.5°	737.2	742.1	737.2	744.6	742.1	742.1	744.6	744.6
45°	656.1	663.5	658.6	663.5	666.0	663.5	663.5	668.4
47.5°	580.0	584.9	582.4	584.9	584.9	584.9	584.9	589.8
50°	503.8	506.2	506.2	508.6	508.6	511.1	506.2	508.6
52.5°	427.6	432.5	432.5	432.5	430.0	432.5	432.5	432.5
55°	358.8	361.2	356.4	361.2	361.2	358.8	358.8	363.8
57.5°	292.4	292.4	292.4	292.4	292.4	290.0	292.4	292.4
60°	231.0	233.5	231.0	231.0	231.0	231.0	228.5	233.5
62.5°	179.4	179.4	176.9	179.4	179.4	179.4	181.9	181.9
65°	140.1	142.5	140.1	142.5	142.5	142.5	142.5	145.0
67.5°	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6
70°	83.5	83.5	83.5	86.0	83.5	83.5	83.5	86.0
72.5°	61.4	61.4	61.4	61.4	61.4	61.4	63.9	63.9
75°	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
77.5°	29.5	29.5	29.5	32.0	29.5	32.0	29.5	29.5
80°	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
82.5°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
85°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
87.5°	4.9	4.9	4.9	4.9	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



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— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)