

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: P252379

Luminaire Tested: **LE\_6B30D010 EC6B30508050 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252379  
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\_6B30D010 EC6B30508050 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3457.5 lumens  
Efficiency: N/A  
Efficacy: 123.5 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

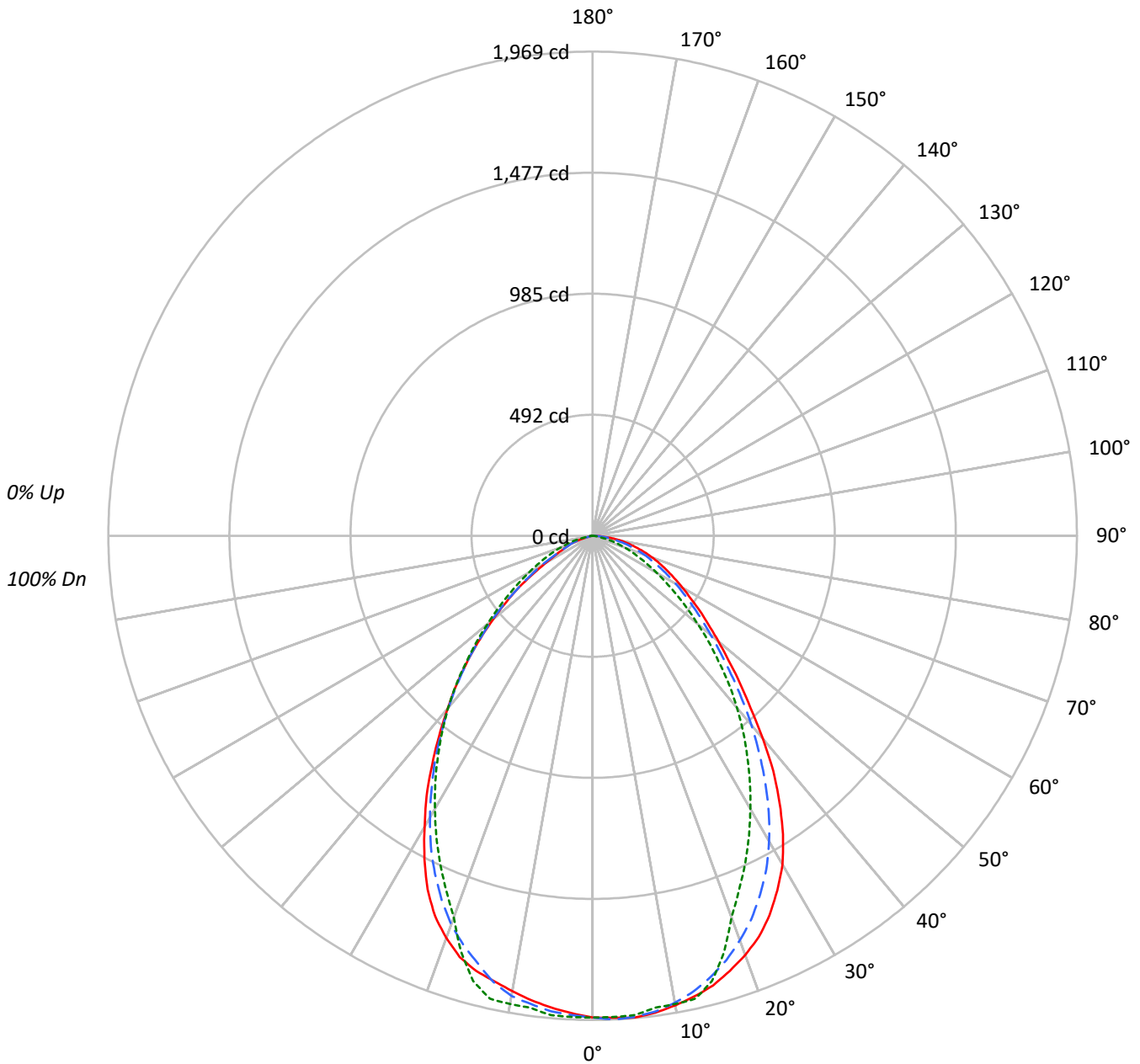
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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	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°	127806	127806	127806
5°	128792	128131	126133
10°	128440	128095	124551
15°	127850	126648	123730
20°	125942	114639	120818
25°	122526	105674	114283
30°	116345	96592	102920
35°	105568	87330	90571
40°	91655	77790	78003
45°	78166	66901	66200
50°	67657	56544	53448
55°	60489	47181	41391
60°	55115	39170	27897
65°	51437	32202	20825
70°	49023	26209	17473
75°	46154	18603	5772
80°	43958	9580	1916
85°	36230	5689	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.0	5.4
10°-20°	517.4	15.0
20°-30°	714.2	20.7
30°-40°	726.8	21.0
40°-50°	584.1	16.9
50°-60°	388.4	11.2
60°-70°	221.3	6.4
70°-80°	99.4	2.9
80°-90°	20.9	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°	1416.6	41.0
0°-40°	2143.4	62.0
0°-60°	3115.9	90.1
0°-90°	3457.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3457.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1959	1959	1959	1959	1959	
5°	1967	1964	1956	1941	1926	187
15°	1893	1857	1875	1801	1832	533
25°	1702	1610	1468	1516	1588	780
35°	1326	1224	1096	1117	1137	824
45°	847	796	725	718	718	657
55°	532	496	415	369	364	478
65°	333	298	209	135	135	332
75°	183	153	74	30	23	196
85°	48	33	8	2	0	57
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°	1959.0	1959.0	1959.0	1959.0	1959.0	1959.0	1959.0	1959.0	1959.0	1959.0	1959.0
2.5°	1961.6	1971.8	1969.2	1966.6	1969.2	1966.6	1961.6	1961.6	1956.5	1956.5	1969.2
5°	1966.6	1971.8	1969.2	1966.6	1966.6	1969.2	1959.0	1959.0	1954.0	1951.4	1964.1
7.5°	1956.5	1964.1	1959.0	1959.0	1956.5	1959.0	1948.9	1948.9	1941.2	1938.8	1951.4
10°	1938.8	1948.9	1943.8	1943.8	1943.8	1938.8	1933.6	1931.0	1923.4	1920.9	1928.5
12.5°	1918.4	1926.0	1923.4	1918.4	1918.4	1918.4	1908.1	1905.6	1895.5	1890.4	1898.0
15°	1892.9	1898.0	1895.5	1892.9	1887.8	1887.8	1877.6	1872.5	1862.4	1852.2	1857.2
17.5°	1854.8	1862.4	1857.2	1854.8	1847.1	1847.1	1836.9	1831.9	1816.6	1806.4	1809.0
20°	1814.0	1816.6	1814.0	1809.0	1801.2	1798.8	1788.6	1778.4	1765.8	1753.0	1750.4
22.5°	1765.8	1768.2	1760.6	1755.5	1747.9	1745.4	1732.6	1725.0	1704.6	1689.4	1686.9
25°	1702.1	1704.6	1704.6	1691.9	1686.9	1681.8	1669.0	1656.2	1638.5	1618.1	1610.5
27.5°	1625.8	1633.4	1628.2	1615.6	1605.4	1602.9	1590.1	1580.0	1557.0	1539.2	1529.1
30°	1544.4	1541.8	1539.2	1531.6	1516.4	1513.8	1501.1	1488.4	1470.5	1447.6	1435.0
32.5°	1440.0	1440.0	1437.5	1429.9	1414.6	1409.5	1399.4	1384.0	1363.8	1345.9	1333.1
35°	1325.5	1328.1	1325.5	1310.2	1300.1	1295.0	1289.9	1272.1	1254.2	1234.0	1223.8
37.5°	1206.0	1198.4	1200.9	1188.1	1175.4	1180.5	1165.2	1157.6	1137.2	1122.0	1111.9
40°	1076.2	1081.2	1071.1	1066.0	1058.4	1050.8	1050.8	1038.0	1027.9	1010.0	1005.0
42.5°	949.0	956.6	954.1	949.0	938.9	941.4	928.6	923.5	910.9	903.2	895.6
45°	847.2	847.2	847.2	842.1	839.6	834.5	826.9	819.2	811.6	801.4	796.4
47.5°	748.0	748.0	750.5	745.5	740.4	737.9	732.8	732.8	720.0	709.9	704.8
50°	666.6	666.6	666.6	661.5	656.4	656.4	651.4	646.2	638.6	631.0	625.9
52.5°	592.8	592.8	592.8	587.8	585.1	582.6	580.1	577.5	567.4	562.2	557.1
55°	531.8	529.2	529.2	526.6	521.6	521.6	519.0	513.9	506.2	498.6	496.1
57.5°	470.6	473.2	470.6	470.6	465.6	465.6	460.5	458.0	450.4	445.2	440.1
60°	422.4	422.4	422.4	419.8	414.8	417.2	412.1	409.6	402.0	394.4	389.2
62.5°	374.0	376.5	376.5	374.0	368.9	368.9	366.4	363.9	356.2	348.5	340.9
65°	333.2	333.2	333.2	330.8	328.2	328.2	325.6	323.1	315.5	305.2	297.6
67.5°	295.1	292.6	292.6	292.6	290.0	287.5	285.0	282.4	274.8	267.1	257.0
70°	257.0	257.0	257.0	254.4	249.4	251.9	249.4	246.8	239.1	231.5	223.9
72.5°	221.4	221.4	218.8	216.2	216.2	213.8	213.8	211.1	203.5	193.4	185.8
75°	183.1	183.1	183.1	183.1	178.1	180.6	175.5	173.0	167.9	160.2	152.6
77.5°	150.1	150.1	150.1	147.6	145.0	145.0	142.5	139.9	132.2	127.2	117.0
80°	117.0	117.0	117.0	117.0	114.5	112.0	109.4	106.9	101.8	94.1	86.5
82.5°	86.5	86.5	84.0	84.0	84.0	81.4	78.9	76.4	71.2	66.1	61.0
85°	48.4	50.9	50.9	45.8	48.4	45.8	45.8	40.8	40.8	35.6	33.1
87.5°	17.8	15.2	15.2	15.2	15.2	15.2	15.2	12.8	12.8	12.8	10.1
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°	1959.0	1959.0	1959.0	1959.0	1959.0	1959.0	1959.0	1959.0	1959.0	1959.0	1959.0
2.5°	1959.0	1956.5	1966.6	1966.6	1951.4	1959.0	1961.6	1956.5	1956.5	1959.0	1951.4
5°	1954.0	1948.9	1959.0	1961.6	1946.4	1954.0	1956.5	1951.4	1954.0	1956.5	1946.4
7.5°	1936.1	1936.1	1943.8	1946.4	1931.0	1938.8	1938.8	1933.6	1936.1	1936.1	1928.5
10°	1918.4	1910.8	1918.4	1918.4	1905.6	1908.1	1913.2	1910.8	1920.9	1933.6	1933.6
12.5°	1885.2	1877.6	1890.4	1890.4	1882.8	1892.9	1905.6	1913.2	1923.4	1928.5	1913.2
15°	1844.5	1847.1	1870.0	1887.8	1880.1	1895.5	1908.1	1903.1	1890.4	1875.1	1852.2
17.5°	1791.1	1783.5	1803.9	1814.0	1803.9	1809.0	1819.1	1809.0	1788.6	1775.9	1745.4
20°	1730.1	1709.8	1709.8	1704.6	1686.9	1686.9	1684.2	1666.5	1658.9	1651.2	1638.5
22.5°	1661.4	1638.5	1630.9	1615.6	1600.4	1597.8	1590.1	1572.4	1562.1	1557.0	1541.8
25°	1582.5	1562.1	1549.4	1534.1	1511.2	1506.1	1498.5	1480.8	1475.6	1468.0	1455.2
27.5°	1501.1	1475.6	1457.9	1442.6	1422.2	1419.6	1404.4	1391.8	1381.5	1376.4	1366.2
30°	1407.0	1379.0	1366.2	1345.9	1330.6	1325.5	1312.9	1295.0	1287.4	1282.2	1274.6
32.5°	1302.6	1279.8	1267.0	1249.2	1228.9	1231.4	1216.1	1200.9	1195.8	1190.8	1183.0
35°	1200.9	1178.0	1162.8	1147.5	1134.8	1129.6	1119.5	1106.8	1099.1	1096.5	1091.5
37.5°	1088.9	1071.1	1058.4	1043.1	1033.0	1027.9	1022.8	1010.0	1005.0	1005.0	994.8
40°	979.5	964.2	954.1	946.5	933.8	931.1	926.1	918.5	915.9	913.4	905.8
42.5°	880.2	860.0	852.4	847.2	839.6	834.5	832.0	826.9	824.4	821.8	814.1
45°	786.1	768.4	760.8	755.6	748.0	745.5	742.9	735.2	730.2	725.1	722.5
47.5°	694.6	681.9	679.2	666.6	661.5	656.4	651.4	646.2	643.6	641.1	631.0
50°	615.8	608.1	595.4	587.8	582.6	580.1	569.9	562.2	559.8	557.1	549.5
52.5°	544.5	534.2	526.6	513.9	511.4	506.2	501.2	491.0	486.0	483.4	475.8
55°	480.9	473.2	463.0	452.9	445.2	442.8	435.0	424.9	419.8	414.8	409.6
57.5°	427.4	414.8	404.5	394.4	389.2	381.6	374.0	368.9	361.2	353.6	346.0
60°	376.5	366.4	353.6	343.5	338.4	333.2	323.1	315.5	307.9	300.2	292.6
62.5°	328.2	318.0	305.2	295.1	290.0	285.0	274.8	267.1	259.5	251.9	241.8
65°	285.0	274.8	264.6	254.4	249.4	244.2	234.1	223.9	216.2	208.6	198.5
67.5°	249.4	236.6	226.4	216.2	211.1	206.1	195.9	188.2	178.1	170.5	160.2
70°	211.1	201.0	193.4	183.1	178.1	173.0	162.9	152.6	145.0	137.4	127.2
72.5°	178.1	165.4	157.8	147.6	142.5	139.9	129.8	122.1	114.5	104.4	96.6
75°	142.5	132.2	122.1	114.5	109.4	106.9	96.6	89.0	81.4	73.8	66.1
77.5°	109.4	101.8	91.6	84.0	78.9	76.4	66.1	58.5	50.9	45.8	38.1
80°	81.4	71.2	66.1	58.5	56.0	50.9	45.8	38.1	33.1	25.5	20.4
82.5°	56.0	48.4	43.2	38.1	35.6	33.1	28.0	22.9	17.8	15.2	12.8
85°	30.5	25.5	22.9	20.4	17.8	17.8	15.2	12.8	10.1	7.6	5.1
87.5°	10.1	7.6	7.6	7.6	7.6	5.1	5.1	5.1	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°	1959.0	1959.0	1959.0	1959.0	1959.0	1959.0	1959.0	1959.0	1959.0	1959.0	1959.0
2.5°	1956.5	1956.5	1956.5	1954.0	1954.0	1954.0	1951.4	1961.6	1951.4	1948.9	1956.5
5°	1954.0	1948.9	1948.9	1948.9	1948.9	1946.4	1943.8	1948.9	1941.2	1938.8	1938.8
7.5°	1938.8	1936.1	1936.1	1933.6	1931.0	1928.5	1926.0	1928.5	1920.9	1918.4	1918.4
10°	1941.2	1936.1	1936.1	1928.5	1923.4	1915.8	1908.1	1910.8	1900.5	1892.9	1892.9
12.5°	1910.8	1898.0	1890.4	1882.8	1877.6	1875.1	1864.9	1870.0	1859.9	1857.2	1857.2
15°	1842.0	1826.8	1814.0	1809.0	1809.0	1803.9	1796.2	1806.4	1801.2	1803.9	1816.6
17.5°	1735.1	1727.5	1719.9	1717.4	1719.9	1725.0	1730.1	1745.4	1745.4	1753.0	1765.8
20°	1641.0	1635.9	1641.0	1641.0	1643.6	1653.8	1663.9	1676.6	1681.8	1689.4	1707.1
22.5°	1549.4	1549.4	1554.5	1562.1	1559.6	1577.4	1580.0	1602.9	1602.9	1618.1	1633.4
25°	1460.4	1460.4	1465.5	1468.0	1473.1	1483.2	1493.5	1511.2	1516.4	1531.6	1544.4
27.5°	1373.9	1371.4	1371.4	1373.9	1379.0	1391.8	1396.8	1417.1	1424.8	1435.0	1447.6
30°	1277.2	1274.6	1279.8	1284.9	1282.2	1295.0	1302.6	1317.9	1323.0	1333.1	1343.4
32.5°	1185.6	1185.6	1185.6	1190.8	1190.8	1200.9	1200.9	1218.6	1218.6	1226.4	1236.5
35°	1091.5	1091.5	1094.0	1096.5	1099.1	1101.6	1104.2	1114.4	1116.9	1119.5	1124.5
37.5°	1002.4	999.9	1002.4	1002.4	997.4	1007.5	1007.5	1017.6	1010.0	1017.6	1020.2
40°	910.9	910.9	908.2	908.2	908.2	913.4	908.2	915.9	910.9	915.9	913.4
42.5°	816.8	816.8	811.6	816.8	814.1	814.1	814.1	819.2	811.6	816.8	819.2
45°	722.5	720.0	720.0	717.5	717.5	717.5	720.0	720.0	717.5	722.5	722.5
47.5°	631.0	628.4	628.4	628.4	628.4	631.0	623.4	628.4	623.4	623.4	623.4
50°	552.1	549.5	547.0	544.5	541.9	541.9	539.4	539.4	534.2	531.8	529.2
52.5°	475.8	473.2	468.1	468.1	465.6	463.0	455.4	455.4	447.8	445.2	445.2
55°	407.1	399.5	396.9	391.8	391.8	386.8	381.6	376.5	368.9	363.9	363.9
57.5°	343.5	335.9	330.8	328.2	325.6	320.6	310.4	307.9	297.6	295.1	292.6
60°	287.5	279.9	272.2	267.1	264.6	257.0	246.8	241.8	236.6	229.0	221.4
62.5°	234.1	226.4	216.2	213.8	208.6	201.0	193.4	185.8	180.6	173.0	167.9
65°	188.2	180.6	173.0	167.9	162.9	155.2	147.6	139.9	134.9	132.2	129.8
67.5°	152.6	142.5	134.9	132.2	127.2	122.1	114.5	112.0	106.9	106.9	106.9
70°	119.6	112.0	104.4	101.8	99.2	94.1	89.0	89.0	89.0	89.0	89.0
72.5°	89.0	84.0	76.4	73.8	71.2	68.8	63.6	66.1	63.6	63.6	63.6
75°	56.0	50.9	45.8	43.2	40.8	38.1	35.6	33.1	30.5	28.0	28.0
77.5°	30.5	25.5	22.9	20.4	20.4	17.8	15.2	15.2	12.8	12.8	12.8
80°	17.8	15.2	12.8	10.1	10.1	7.6	7.6	7.6	7.6	5.1	5.1
82.5°	10.1	7.6	5.1	5.1	5.1	5.1	2.5	2.5	2.5	2.5	2.5
85°	5.1	5.1	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: P252379

CATALOG NUMBER: LE\_6B30D010 EC6B30508050 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1959.0	1959.0	1959.0	1959.0	1959.0	1959.0	1959.0	1959.0
2.5°	1943.8	1951.4	1943.8	1951.4	1951.4	1951.4	1951.4	1943.8
5°	1931.0	1936.1	1928.5	1933.6	1936.1	1933.6	1933.6	1926.0
7.5°	1908.1	1913.2	1905.6	1913.2	1915.8	1913.2	1910.8	1905.6
10°	1885.2	1887.8	1880.1	1885.2	1890.4	1890.4	1887.8	1880.1
12.5°	1849.6	1857.2	1849.6	1854.8	1859.9	1862.4	1862.4	1854.8
15°	1809.0	1821.6	1816.6	1824.2	1831.9	1834.4	1834.4	1831.9
17.5°	1768.2	1781.0	1773.4	1786.0	1793.6	1798.8	1801.2	1796.2
20°	1709.8	1725.0	1719.9	1730.1	1740.2	1747.9	1747.9	1740.2
22.5°	1633.4	1653.8	1651.2	1658.9	1671.5	1674.1	1679.1	1674.1
25°	1549.4	1564.8	1562.1	1569.8	1585.0	1585.0	1587.6	1587.6
27.5°	1452.8	1468.0	1465.5	1470.5	1480.8	1483.2	1485.9	1480.8
30°	1348.4	1356.1	1356.1	1363.8	1371.4	1373.9	1373.9	1366.2
32.5°	1234.0	1244.1	1249.2	1246.6	1254.2	1259.4	1256.9	1256.9
35°	1129.6	1132.1	1134.8	1137.2	1139.8	1144.9	1139.8	1137.2
37.5°	1017.6	1025.4	1020.2	1025.4	1030.4	1027.9	1025.4	1025.4
40°	915.9	918.5	913.4	918.5	921.0	921.0	921.0	915.9
42.5°	814.1	819.2	814.1	819.2	819.2	819.2	819.2	816.8
45°	712.4	717.5	717.5	720.0	720.0	717.5	717.5	717.5
47.5°	618.2	623.4	618.2	623.4	625.9	620.8	620.8	620.8
50°	529.2	526.6	526.6	529.2	529.2	529.2	529.2	526.6
52.5°	437.6	440.1	440.1	440.1	442.8	440.1	442.8	442.8
55°	358.8	358.8	358.8	361.2	358.8	358.8	361.2	363.9
57.5°	287.5	285.0	282.4	282.4	285.0	282.4	282.4	282.4
60°	221.4	218.8	216.2	216.2	216.2	216.2	216.2	213.8
62.5°	165.4	165.4	165.4	167.9	167.9	167.9	167.9	170.5
65°	132.2	132.2	132.2	132.2	132.2	132.2	132.2	134.9
67.5°	106.9	106.9	106.9	109.4	109.4	109.4	109.4	109.4
70°	89.0	89.0	91.6	89.0	91.6	91.6	91.6	91.6
72.5°	61.0	61.0	61.0	61.0	61.0	58.5	61.0	58.5
75°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	22.9
77.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
80°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
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)