

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: P252483

Luminaire Tested: **LE_6B30D010 EC6B30508050 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252483
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 EC6B30508050 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3246.3 lumens
Efficiency: N/A
Efficacy: 115.9 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

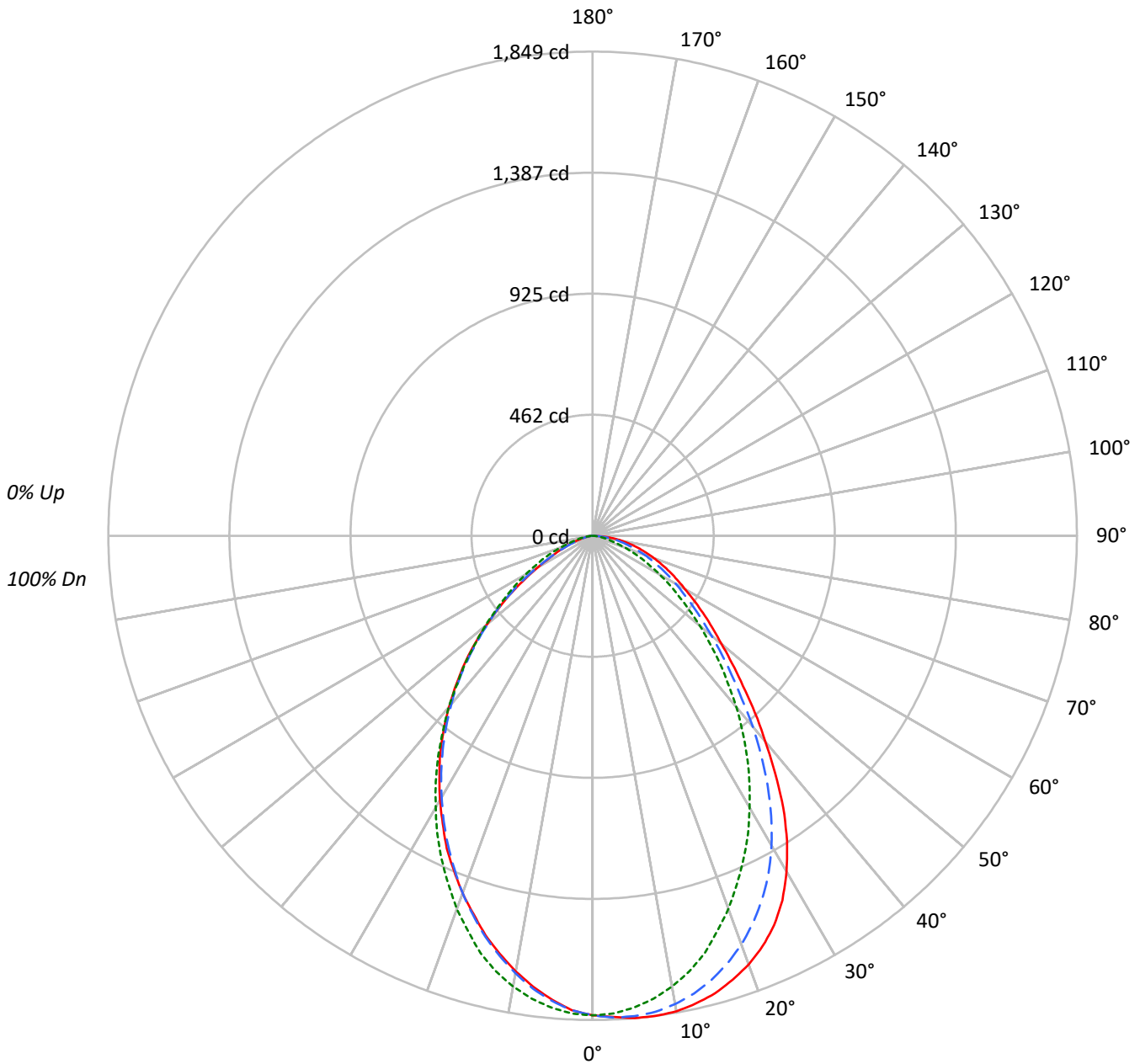
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	119482	119482	119482
5°	121097	118438	116441
10°	122166	115760	111885
15°	122150	111498	106683
20°	120971	105252	100837
25°	118099	98144	94848
30°	111524	90249	87763
35°	101084	81842	80831
40°	87295	72783	72570
45°	74863	63367	63838
50°	65059	54209	53438
55°	58441	45714	42824
60°	53106	38492	31524
65°	49862	31801	23171
70°	47535	24759	16977
75°	45524	17947	11545
80°	43018	12436	7664
85°	38101	7560	3818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.3	5.3
10°-20°	469.2	14.5
20°-30°	651.4	20.1
30°-40°	674.7	20.8
40°-50°	554.4	17.1
50°-60°	381.0	11.7
60°-70°	219.0	6.7
70°-80°	100.7	3.1
80°-90°	24.5	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°	1291.9	39.8
0°-40°	1966.5	60.6
0°-60°	2902.0	89.4
0°-90°	3246.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3246.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1831	1831	1831	1831	1831	
5°	1849	1842	1808	1783	1778	176
15°	1808	1755	1651	1585	1580	509
25°	1641	1531	1363	1305	1318	751
35°	1269	1165	1028	997	1015	787
45°	811	750	687	679	692	632
55°	514	466	402	379	376	462
65°	323	282	206	145	150	322
75°	181	142	71	46	46	191
85°	51	36	10	5	5	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°	1831.4	1831.4	1831.4	1831.4	1831.4	1831.4	1831.4	1831.4	1831.4	1831.4	1831.4
2.5°	1839.0	1854.2	1844.1	1841.5	1846.6	1846.6	1846.6	1839.0	1844.1	1836.5	1841.5
5°	1849.1	1861.9	1851.8	1846.6	1851.8	1854.2	1846.6	1841.5	1849.1	1839.0	1841.5
7.5°	1849.1	1861.9	1851.8	1849.1	1851.8	1851.8	1849.1	1839.0	1844.1	1833.9	1833.9
10°	1844.1	1854.2	1844.1	1839.0	1841.5	1839.0	1839.0	1826.2	1828.9	1816.1	1816.1
12.5°	1828.9	1841.5	1828.9	1823.8	1823.8	1823.8	1816.1	1805.9	1808.5	1793.2	1790.6
15°	1808.5	1818.6	1805.9	1800.9	1800.9	1798.2	1793.2	1778.0	1778.0	1762.8	1755.0
17.5°	1778.0	1788.1	1778.0	1770.4	1767.8	1762.8	1757.6	1742.4	1737.2	1719.5	1711.9
20°	1742.4	1750.0	1739.8	1732.1	1727.1	1722.0	1711.9	1696.5	1691.5	1673.6	1661.0
22.5°	1696.5	1706.8	1691.5	1683.9	1678.8	1671.1	1661.0	1645.6	1638.0	1615.1	1599.9
25°	1640.6	1645.6	1633.0	1625.4	1615.1	1610.1	1602.5	1582.1	1574.5	1549.0	1531.2
27.5°	1569.4	1574.5	1559.2	1554.1	1541.4	1536.2	1526.1	1508.4	1498.1	1472.8	1454.9
30°	1480.4	1485.5	1475.2	1467.6	1457.5	1447.2	1439.6	1421.9	1406.6	1381.1	1365.9
32.5°	1381.1	1388.8	1378.6	1368.4	1350.6	1353.1	1340.5	1322.6	1309.9	1287.0	1269.2
35°	1269.2	1274.4	1261.6	1259.1	1248.9	1238.8	1226.0	1213.2	1205.6	1180.2	1165.0
37.5°	1144.6	1157.4	1144.6	1134.4	1129.4	1121.8	1114.1	1096.2	1091.2	1075.9	1055.6
40°	1025.0	1032.6	1025.0	1014.9	1007.2	1007.2	997.1	986.9	974.1	958.9	951.2
42.5°	918.2	913.1	910.6	905.5	895.4	892.8	890.2	877.5	869.9	854.6	841.9
45°	811.4	814.0	808.9	806.2	798.6	793.6	788.5	778.4	775.8	760.5	750.4
47.5°	722.4	719.9	714.8	714.8	709.6	704.6	699.5	691.9	689.2	676.6	666.4
50°	641.0	643.5	641.0	638.4	630.8	628.2	623.1	618.1	613.0	600.2	590.1
52.5°	574.9	572.2	569.8	569.8	562.1	559.6	554.5	549.4	544.4	531.6	524.0
55°	513.8	513.8	511.2	508.8	501.1	498.5	496.0	490.9	483.2	473.1	465.5
57.5°	457.9	457.9	455.2	452.8	447.6	447.6	442.6	437.5	432.4	422.2	412.0
60°	407.0	409.5	407.0	404.4	399.4	399.4	396.8	389.1	386.6	373.9	366.2
62.5°	363.8	363.8	363.8	361.1	358.6	353.5	353.5	345.9	340.9	333.2	323.0
65°	323.0	323.0	323.0	320.5	315.4	312.9	310.4	305.2	300.1	292.5	282.4
67.5°	284.9	284.9	284.9	282.4	277.2	274.8	272.1	269.6	262.0	254.4	244.1
70°	249.2	249.2	246.8	244.1	241.6	239.1	236.5	231.5	226.4	216.2	208.6
72.5°	213.6	213.6	213.6	208.6	206.0	206.0	201.0	198.4	193.2	183.1	175.5
75°	180.6	178.0	178.0	175.5	173.0	170.4	167.9	165.4	157.8	152.6	142.5
77.5°	147.5	147.5	145.0	142.5	142.5	139.9	137.4	132.2	129.8	122.1	114.5
80°	114.5	114.5	114.5	114.5	111.9	109.4	109.4	104.2	101.8	94.1	89.0
82.5°	86.5	84.0	84.0	84.0	81.4	78.9	78.9	76.2	73.8	68.6	63.6
85°	50.9	48.4	48.4	48.4	45.8	45.8	43.2	43.2	40.8	35.6	35.6
87.5°	15.2	15.2	17.8	17.8	15.2	15.2	15.2	15.2	15.2	12.8	12.8
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°	1831.4	1831.4	1831.4	1831.4	1831.4	1831.4	1831.4	1831.4	1831.4	1831.4	1831.4
2.5°	1836.5	1844.1	1833.9	1831.4	1841.5	1836.5	1833.9	1828.9	1831.4	1826.2	1818.6
5°	1833.9	1844.1	1831.4	1823.8	1836.5	1828.9	1823.8	1818.6	1818.6	1808.5	1803.4
7.5°	1826.2	1831.4	1818.6	1811.0	1818.6	1811.0	1805.9	1798.2	1795.8	1783.0	1775.4
10°	1805.9	1811.0	1795.8	1785.6	1793.2	1783.0	1775.4	1767.8	1762.8	1747.4	1737.2
12.5°	1778.0	1780.5	1762.8	1750.0	1755.0	1747.4	1734.8	1724.5	1719.5	1704.1	1691.5
15°	1739.8	1742.4	1722.0	1704.1	1709.2	1699.1	1683.9	1673.6	1666.0	1650.8	1633.0
17.5°	1694.0	1691.5	1668.6	1650.8	1653.4	1640.6	1625.4	1610.1	1599.9	1582.1	1569.4
20°	1643.1	1635.5	1610.1	1589.8	1592.2	1577.0	1559.2	1544.0	1531.2	1516.0	1498.1
22.5°	1579.5	1569.4	1546.5	1521.0	1523.6	1510.9	1485.5	1472.8	1460.0	1439.6	1424.4
25°	1510.9	1495.6	1472.8	1447.2	1447.2	1432.0	1411.6	1396.4	1383.8	1363.4	1345.5
27.5°	1429.5	1421.9	1391.4	1371.0	1368.4	1353.1	1335.4	1317.6	1302.2	1284.5	1266.8
30°	1340.5	1327.8	1304.9	1282.0	1276.9	1264.1	1246.4	1226.0	1215.9	1198.0	1182.8
32.5°	1246.4	1233.6	1208.2	1185.2	1182.8	1172.6	1157.4	1137.0	1126.8	1114.1	1103.9
35°	1139.5	1134.4	1109.0	1091.2	1091.2	1081.0	1065.8	1048.0	1040.4	1027.6	1014.9
37.5°	1037.8	1030.1	1007.2	992.0	992.0	979.2	964.0	956.4	948.8	938.6	931.0
40°	931.0	925.9	908.0	892.8	895.4	885.1	875.0	864.8	859.8	854.6	847.0
42.5°	831.8	826.6	814.0	801.2	801.2	793.6	783.4	775.8	770.8	763.1	760.5
45°	742.8	735.1	724.9	712.2	712.2	704.6	699.5	694.4	691.9	686.8	679.1
47.5°	656.2	651.1	641.0	628.2	628.2	628.2	618.1	610.5	610.5	605.4	602.9
50°	582.5	574.9	567.2	557.0	557.0	552.0	544.4	536.8	536.8	534.1	529.0
52.5°	513.8	508.8	498.5	488.4	488.4	483.2	475.6	473.1	470.5	462.9	460.4
55°	455.2	450.2	442.6	429.9	427.4	424.8	417.1	412.0	409.5	401.9	401.9
57.5°	401.9	396.8	384.1	376.5	373.9	368.9	361.1	356.1	353.5	348.5	343.4
60°	356.1	348.5	338.2	328.1	325.6	320.5	312.9	307.8	305.2	295.0	290.0
62.5°	312.9	305.2	295.0	284.9	282.4	277.2	267.1	262.0	256.9	246.8	241.6
65°	272.1	264.5	254.4	244.1	239.1	236.5	226.4	218.8	213.6	206.0	195.9
67.5°	234.0	226.4	216.2	203.5	203.5	195.9	188.2	180.6	173.0	165.4	157.8
70°	198.4	190.8	180.6	170.4	167.9	162.8	155.1	145.0	139.9	129.8	122.1
72.5°	165.4	157.8	147.5	137.4	134.8	129.8	122.1	111.9	104.2	96.6	89.0
75°	134.8	127.1	117.0	109.4	106.9	101.8	94.1	84.0	76.2	71.2	63.6
77.5°	106.9	99.2	91.6	84.0	81.4	76.2	68.6	63.6	56.0	50.9	43.2
80°	81.4	76.2	68.6	63.6	61.0	56.0	50.9	43.2	38.1	33.1	30.5
82.5°	58.5	53.4	48.4	40.8	40.8	35.6	33.1	28.0	22.9	20.4	17.8
85°	33.1	28.0	25.4	22.9	20.4	20.4	17.8	15.2	12.8	10.1	10.1
87.5°	10.1	10.1	7.6	7.6	7.6	7.6	5.1	5.1	5.1	5.1	5.1
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1831.4	1831.4	1831.4	1831.4	1831.4	1831.4	1831.4	1831.4	1831.4	1831.4	1831.4
2.5°	1818.6	1821.2	1816.1	1821.2	1816.1	1818.6	1813.5	1818.6	1813.5	1818.6	1808.5
5°	1800.9	1800.9	1793.2	1798.2	1793.2	1795.8	1785.6	1788.1	1783.0	1788.1	1778.0
7.5°	1770.4	1772.9	1760.1	1765.2	1757.6	1757.6	1750.0	1752.5	1744.9	1747.4	1739.8
10°	1734.8	1732.1	1719.5	1724.5	1714.4	1714.4	1706.8	1706.8	1696.5	1699.1	1688.9
12.5°	1683.9	1681.2	1666.0	1671.1	1661.0	1661.0	1653.4	1653.4	1643.1	1648.2	1638.0
15°	1625.4	1622.8	1607.5	1610.1	1599.9	1599.9	1589.8	1592.2	1584.6	1589.8	1579.5
17.5°	1559.2	1556.6	1541.4	1544.0	1531.2	1533.8	1526.1	1523.6	1518.5	1521.0	1513.4
20°	1490.5	1485.5	1470.1	1472.8	1467.6	1460.0	1454.9	1457.5	1452.4	1457.5	1449.9
22.5°	1419.2	1409.1	1396.4	1396.4	1391.4	1391.4	1383.8	1388.8	1378.6	1386.2	1381.1
25°	1337.9	1330.2	1320.1	1325.2	1315.0	1315.0	1307.4	1309.9	1304.9	1309.9	1304.9
27.5°	1259.1	1254.0	1238.8	1243.8	1236.1	1238.8	1231.1	1233.6	1231.1	1236.1	1231.1
30°	1175.1	1172.6	1162.4	1162.4	1159.9	1157.4	1154.8	1154.8	1152.2	1159.9	1154.8
32.5°	1096.2	1088.6	1078.5	1086.1	1073.4	1081.0	1075.9	1081.0	1075.9	1081.0	1078.5
35°	1014.9	1012.4	999.6	1002.1	999.6	999.6	997.1	997.1	997.1	1004.8	1004.8
37.5°	928.4	925.9	918.2	920.8	915.6	913.1	913.1	918.2	918.2	923.4	923.4
40°	844.5	847.0	839.4	839.4	836.9	836.9	836.9	841.9	839.4	844.5	841.9
42.5°	760.5	760.5	752.9	755.5	752.9	755.5	755.5	760.5	760.5	763.1	760.5
45°	681.6	681.6	679.1	681.6	676.6	679.1	676.6	681.6	679.1	681.6	681.6
47.5°	602.9	602.9	602.9	600.2	600.2	600.2	600.2	600.2	597.8	602.9	600.2
50°	529.0	531.6	529.0	529.0	526.5	529.0	526.5	526.5	521.4	524.0	524.0
52.5°	462.9	462.9	457.9	457.9	457.9	455.2	455.2	455.2	452.8	452.8	447.6
55°	399.4	399.4	394.2	394.2	391.8	389.1	386.6	386.6	379.0	379.0	371.4
57.5°	340.9	338.2	330.6	330.6	325.6	323.0	320.5	318.0	312.9	307.8	305.2
60°	287.4	282.4	277.2	274.8	269.6	264.5	259.5	254.4	249.2	246.8	244.1
62.5°	236.5	228.9	223.9	221.2	216.2	208.6	203.5	198.4	193.2	190.8	185.6
65°	190.8	183.1	175.5	173.0	167.9	162.8	155.1	150.1	145.0	142.5	142.5
67.5°	150.1	142.5	132.2	132.2	127.1	122.1	117.0	111.9	109.4	111.9	111.9
70°	111.9	106.9	99.2	96.6	91.6	86.5	84.0	84.0	84.0	86.5	84.0
72.5°	84.0	76.2	71.2	68.6	66.1	63.6	63.6	63.6	61.0	63.6	63.6
75°	58.5	53.4	48.4	48.4	45.8	45.8	45.8	45.8	45.8	45.8	45.8
77.5°	40.8	35.6	33.1	33.1	33.1	30.5	30.5	30.5	30.5	30.5	30.5
80°	25.4	25.4	22.9	22.9	20.4	20.4	20.4	20.4	20.4	20.4	20.4
82.5°	15.2	15.2	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
85°	7.6	7.6	7.6	7.6	7.6	5.1	5.1	5.1	5.1	5.1	5.1
87.5°	2.5	2.5	2.5	2.5	2.5	5.1	5.1	5.1	5.1	5.1	5.1
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: P252483

CATALOG NUMBER: LE_6B30D010 EC6B30508050 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1831.4	1831.4	1831.4	1831.4	1831.4	1831.4	1831.4	1831.4
2.5°	1808.5	1816.1	1805.9	1813.5	1811.0	1808.5	1803.4	1813.5
5°	1778.0	1780.5	1770.4	1780.5	1778.0	1772.9	1767.8	1778.0
7.5°	1734.8	1742.4	1729.6	1739.8	1737.2	1732.1	1727.1	1737.2
10°	1686.4	1694.0	1683.9	1691.5	1691.5	1686.4	1678.8	1688.9
12.5°	1633.0	1638.0	1627.9	1638.0	1635.5	1630.4	1627.9	1635.5
15°	1574.5	1582.1	1571.9	1579.5	1577.0	1574.5	1571.9	1579.5
17.5°	1510.9	1518.5	1510.9	1518.5	1518.5	1510.9	1508.4	1513.4
20°	1447.2	1452.4	1444.8	1452.4	1449.9	1449.9	1444.8	1452.4
22.5°	1376.1	1383.8	1378.6	1383.8	1381.1	1381.1	1378.6	1383.8
25°	1304.9	1312.5	1304.9	1312.5	1309.9	1309.9	1304.9	1317.6
27.5°	1233.6	1238.8	1231.1	1241.2	1238.8	1233.6	1236.1	1238.8
30°	1157.4	1162.4	1157.4	1165.0	1165.0	1165.0	1159.9	1165.0
32.5°	1081.0	1088.6	1081.0	1088.6	1086.1	1086.1	1083.5	1088.6
35°	1004.8	1007.2	1002.1	1009.8	1009.8	1012.4	1007.2	1014.9
37.5°	925.9	928.4	925.9	928.4	933.5	925.9	931.0	933.5
40°	844.5	849.5	847.0	849.5	849.5	852.1	849.5	852.1
42.5°	763.1	768.1	763.1	770.8	768.1	768.1	770.8	770.8
45°	679.1	686.8	681.6	686.8	689.2	686.8	686.8	691.9
47.5°	600.2	605.4	602.9	605.4	605.4	605.4	605.4	610.5
50°	521.4	524.0	524.0	526.5	526.5	529.0	524.0	526.5
52.5°	442.6	447.6	447.6	447.6	445.1	447.6	447.6	447.6
55°	371.4	373.9	368.9	373.9	373.9	371.4	371.4	376.5
57.5°	302.6	302.6	302.6	302.6	302.6	300.1	302.6	302.6
60°	239.1	241.6	239.1	239.1	239.1	239.1	236.5	241.6
62.5°	185.6	185.6	183.1	185.6	185.6	185.6	188.2	188.2
65°	145.0	147.5	145.0	147.5	147.5	147.5	147.5	150.1
67.5°	114.5	114.5	114.5	114.5	114.5	114.5	114.5	114.5
70°	86.5	86.5	86.5	89.0	86.5	86.5	86.5	89.0
72.5°	63.6	63.6	63.6	63.6	63.6	63.6	66.1	66.1
75°	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
77.5°	30.5	30.5	30.5	33.1	30.5	33.1	30.5	30.5
80°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
82.5°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
85°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
87.5°	5.1	5.1	5.1	5.1	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)