

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: P252481

Luminaire Tested: **LE_6B30D010 EC6B30508035 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252481
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 EC6B30508035 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3213.7 lumens
Efficiency: N/A
Efficacy: 114.8 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

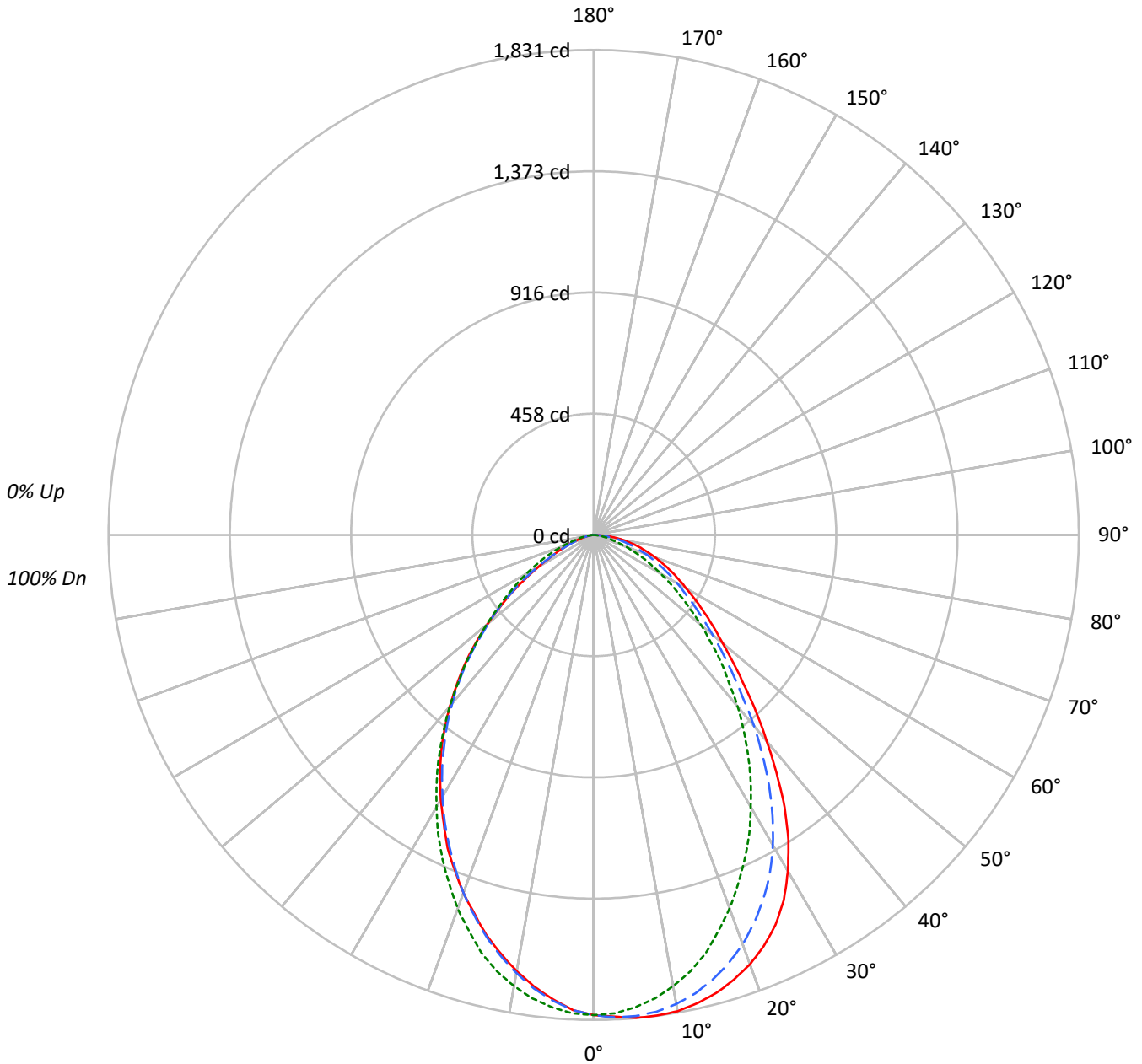
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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°	118281	118281	118281
5°	119886	117253	115269
10°	120941	114601	110765
15°	120927	110377	105622
20°	119756	104197	99830
25°	116911	97165	93897
30°	110401	89345	86874
35°	100073	81014	80026
40°	86426	72059	71846
45°	74107	62730	63192
50°	64399	53671	52900
55°	57850	45259	42381
60°	52571	38114	31211
65°	49368	31492	22940
70°	47077	24492	16805
75°	45070	17771	11444
80°	42605	12323	7552
85°	37727	7560	3743



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.6	5.3
10°-20°	464.5	14.5
20°-30°	644.8	20.1
30°-40°	667.9	20.8
40°-50°	548.9	17.1
50°-60°	377.2	11.7
60°-70°	216.9	6.7
70°-80°	99.7	3.1
80°-90°	24.3	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°	1278.9	39.8
0°-40°	1946.8	60.6
0°-60°	2872.9	89.4
0°-90°	3213.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3213.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1813	1813	1813	1813	1813	
5°	1831	1823	1790	1765	1760	174
15°	1790	1738	1634	1569	1564	504
25°	1624	1516	1350	1292	1304	743
35°	1256	1153	1017	987	1005	779
45°	803	743	680	672	685	626
55°	509	461	398	375	373	458
65°	320	280	204	144	149	318
75°	179	141	70	45	45	189
85°	50	35	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°	1813.0	1813.0	1813.0	1813.0	1813.0	1813.0	1813.0	1813.0	1813.0	1813.0	1813.0
2.5°	1820.6	1835.8	1825.6	1823.1	1828.1	1828.1	1828.1	1820.6	1825.6	1818.1	1823.1
5°	1830.6	1843.2	1833.1	1828.1	1833.1	1835.8	1828.1	1823.1	1830.6	1820.6	1823.1
7.5°	1830.6	1843.2	1833.1	1830.6	1833.1	1833.1	1830.6	1820.6	1825.6	1815.5	1815.5
10°	1825.6	1835.8	1825.6	1820.6	1823.1	1820.6	1820.6	1808.0	1810.5	1797.9	1797.9
12.5°	1810.5	1823.1	1810.5	1805.5	1805.5	1805.5	1797.9	1787.9	1790.4	1775.2	1772.8
15°	1790.4	1800.5	1787.9	1782.9	1782.9	1780.2	1775.2	1760.1	1760.1	1745.0	1737.5
17.5°	1760.1	1770.2	1760.1	1752.6	1750.1	1745.0	1740.0	1724.9	1719.9	1702.2	1694.6
20°	1724.9	1732.5	1722.4	1714.9	1709.8	1704.8	1694.6	1679.6	1674.5	1656.9	1644.4
22.5°	1679.6	1689.6	1674.5	1667.0	1662.0	1654.4	1644.4	1629.2	1621.6	1599.0	1583.9
25°	1624.1	1629.2	1616.6	1609.1	1599.0	1594.0	1586.4	1566.2	1558.8	1533.5	1515.9
27.5°	1553.6	1558.8	1543.6	1538.5	1526.0	1520.9	1510.9	1493.2	1483.1	1458.0	1440.4
30°	1465.5	1470.6	1460.5	1453.0	1442.9	1432.8	1425.2	1407.6	1392.5	1367.4	1352.2
32.5°	1367.4	1374.9	1364.8	1354.8	1337.1	1339.6	1327.0	1309.4	1296.9	1274.1	1256.5
35°	1256.5	1261.6	1249.0	1246.5	1236.4	1226.4	1213.8	1201.1	1193.6	1168.4	1153.2
37.5°	1133.1	1145.8	1133.1	1123.1	1118.0	1110.5	1102.9	1085.2	1080.2	1065.1	1045.0
40°	1014.8	1022.4	1014.8	1004.8	997.1	997.1	987.1	977.0	964.4	949.4	941.8
42.5°	909.0	904.0	901.5	896.5	886.4	883.9	881.4	868.8	861.2	846.1	833.5
45°	803.2	805.8	800.8	798.2	790.6	785.6	780.6	770.5	768.0	752.9	742.9
47.5°	715.1	712.6	707.6	707.6	702.5	697.5	692.5	684.9	682.4	669.9	659.8
50°	634.5	637.1	634.5	632.0	624.5	622.0	616.9	611.9	606.9	594.2	584.2
52.5°	569.1	566.6	564.0	564.0	556.5	554.0	549.0	543.9	538.9	526.2	518.8
55°	508.6	508.6	506.1	503.6	496.1	493.5	491.0	486.0	478.5	468.4	460.8
57.5°	453.2	453.2	450.8	448.2	443.1	443.1	438.1	433.1	428.1	418.0	407.9
60°	402.9	405.4	402.9	400.4	395.4	395.4	392.9	385.2	382.8	370.1	362.6
62.5°	360.1	360.1	360.1	357.6	355.0	350.0	350.0	342.5	337.4	329.9	319.8
65°	319.8	319.8	319.8	317.2	312.2	309.8	307.2	302.1	297.1	289.6	279.5
67.5°	282.0	282.0	282.0	279.5	274.5	272.0	269.4	266.9	259.4	251.8	241.8
70°	246.8	246.8	244.2	241.8	239.2	236.8	234.1	229.1	224.1	214.0	206.5
72.5°	211.5	211.5	211.5	206.5	204.0	204.0	198.9	196.4	191.4	181.2	173.8
75°	178.8	176.2	176.2	173.8	171.2	168.8	166.2	163.6	156.1	151.1	141.0
77.5°	146.0	146.0	143.5	141.0	141.0	138.5	136.0	131.0	128.4	120.9	113.4
80°	113.4	113.4	113.4	113.4	110.8	108.2	108.2	103.2	100.8	93.1	88.1
82.5°	85.6	83.1	83.1	83.1	80.6	78.0	78.0	75.5	73.0	68.0	63.0
85°	50.4	47.9	47.9	47.9	45.4	45.4	42.8	42.8	40.2	35.2	35.2
87.5°	15.1	15.1	17.6	17.6	15.1	15.1	15.1	15.1	15.1	12.6	12.6
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°	1813.0	1813.0	1813.0	1813.0	1813.0	1813.0	1813.0	1813.0	1813.0	1813.0	1813.0
2.5°	1818.1	1825.6	1815.5	1813.0	1823.1	1818.1	1815.5	1810.5	1813.0	1808.0	1800.5
5°	1815.5	1825.6	1813.0	1805.5	1818.1	1810.5	1805.5	1800.5	1800.5	1790.4	1785.4
7.5°	1808.0	1813.0	1800.5	1792.9	1800.5	1792.9	1787.9	1780.2	1777.8	1765.1	1757.6
10°	1787.9	1792.9	1777.8	1767.8	1775.2	1765.1	1757.6	1750.1	1745.0	1729.9	1719.9
12.5°	1760.1	1762.6	1745.0	1732.5	1737.5	1729.9	1717.4	1707.2	1702.2	1687.1	1674.5
15°	1722.4	1724.9	1704.8	1687.1	1692.1	1682.1	1667.0	1656.9	1649.4	1634.2	1616.6
17.5°	1677.0	1674.5	1651.9	1634.2	1636.8	1624.1	1609.1	1594.0	1583.9	1566.2	1553.6
20°	1626.8	1619.1	1594.0	1573.8	1576.4	1561.2	1543.6	1528.5	1515.9	1500.8	1483.1
22.5°	1563.8	1553.6	1531.0	1505.9	1508.4	1495.8	1470.6	1458.0	1445.4	1425.2	1410.1
25°	1495.8	1480.6	1458.0	1432.8	1432.8	1417.8	1397.5	1382.4	1369.9	1349.8	1332.1
27.5°	1415.1	1407.6	1377.4	1357.2	1354.8	1339.6	1322.0	1304.4	1289.2	1271.6	1254.0
30°	1327.0	1314.5	1291.8	1269.1	1264.1	1251.5	1233.9	1213.8	1203.6	1186.0	1170.9
32.5°	1233.9	1221.2	1196.1	1173.4	1170.9	1160.9	1145.8	1125.6	1115.5	1102.9	1092.9
35°	1128.1	1123.1	1097.9	1080.2	1080.2	1070.2	1055.1	1037.5	1029.9	1017.2	1004.8
37.5°	1027.4	1019.9	997.1	982.0	982.0	969.5	954.4	946.8	939.2	929.1	921.6
40°	921.6	916.6	899.0	883.9	886.4	876.2	866.2	856.1	851.1	846.1	838.5
42.5°	823.4	818.4	805.8	793.2	793.2	785.6	775.6	768.0	763.0	755.4	752.9
45°	735.2	727.8	717.6	705.1	705.1	697.5	692.5	687.5	684.9	679.9	672.4
47.5°	649.6	644.6	634.5	622.0	622.0	622.0	611.9	604.4	604.4	599.2	596.8
50°	576.6	569.1	561.5	551.5	551.5	546.4	538.9	531.4	531.4	528.8	523.8
52.5°	508.6	503.6	493.5	483.5	483.5	478.5	470.9	468.4	465.9	458.2	455.8
55°	450.8	445.8	438.1	425.5	423.0	420.5	413.0	407.9	405.4	397.9	397.9
57.5°	397.9	392.9	380.2	372.6	370.1	365.1	357.6	352.5	350.0	345.0	340.0
60°	352.5	345.0	334.9	324.9	322.4	317.2	309.8	304.8	302.1	292.1	287.1
62.5°	309.8	302.1	292.1	282.0	279.5	274.5	264.4	259.4	254.4	244.2	239.2
65°	269.4	261.9	251.8	241.8	236.8	234.1	224.1	216.5	211.5	204.0	193.9
67.5°	231.6	224.1	214.0	201.5	201.5	193.9	186.4	178.8	171.2	163.6	156.1
70°	196.4	188.9	178.8	168.8	166.2	161.1	153.6	143.5	138.5	128.4	120.9
72.5°	163.6	156.1	146.0	136.0	133.5	128.4	120.9	110.8	103.2	95.8	88.1
75°	133.5	125.9	115.9	108.2	105.8	100.8	93.1	83.1	75.5	70.5	63.0
77.5°	105.8	98.2	90.6	83.1	80.6	75.5	68.0	63.0	55.4	50.4	42.8
80°	80.6	75.5	68.0	63.0	60.4	55.4	50.4	42.8	37.8	32.8	30.2
82.5°	57.9	52.9	47.9	40.2	40.2	35.2	32.8	27.8	22.6	20.1	17.6
85°	32.8	27.8	25.1	22.6	20.1	20.1	17.6	15.1	12.6	10.1	10.1
87.5°	10.1	10.1	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1813.0	1813.0	1813.0	1813.0	1813.0	1813.0	1813.0	1813.0	1813.0	1813.0	1813.0
2.5°	1800.5	1803.0	1797.9	1803.0	1797.9	1800.5	1795.4	1800.5	1795.4	1800.5	1790.4
5°	1782.9	1782.9	1775.2	1780.2	1775.2	1777.8	1767.8	1770.2	1765.1	1770.2	1760.1
7.5°	1752.6	1755.1	1742.5	1747.5	1740.0	1740.0	1732.5	1735.0	1727.4	1729.9	1722.4
10°	1717.4	1714.9	1702.2	1707.2	1697.2	1697.2	1689.6	1689.6	1679.6	1682.1	1672.0
12.5°	1667.0	1664.5	1649.4	1654.4	1644.4	1644.4	1636.8	1636.8	1626.8	1631.8	1621.6
15°	1609.1	1606.5	1591.5	1594.0	1583.9	1583.9	1573.8	1576.4	1568.8	1573.8	1563.8
17.5°	1543.6	1541.1	1526.0	1528.5	1515.9	1518.4	1510.9	1508.4	1503.2	1505.9	1498.2
20°	1475.6	1470.6	1455.5	1458.0	1453.0	1445.4	1440.4	1442.9	1437.9	1442.9	1435.4
22.5°	1405.1	1395.0	1382.4	1382.4	1377.4	1377.4	1369.9	1374.9	1364.8	1372.4	1367.4
25°	1324.5	1317.0	1306.9	1311.9	1301.9	1301.9	1294.2	1296.9	1291.8	1296.9	1291.8
27.5°	1246.5	1241.4	1226.4	1231.4	1223.8	1226.4	1218.8	1221.2	1218.8	1223.8	1218.8
30°	1163.4	1160.9	1150.8	1150.8	1148.2	1145.8	1143.2	1143.2	1140.8	1148.2	1143.2
32.5°	1085.2	1077.8	1067.6	1075.2	1062.6	1070.2	1065.1	1070.2	1065.1	1070.2	1067.6
35°	1004.8	1002.2	989.6	992.1	989.6	989.6	987.1	987.1	987.1	994.6	994.6
37.5°	919.1	916.6	909.0	911.5	906.5	904.0	904.0	909.0	909.0	914.1	914.1
40°	836.0	838.5	831.0	831.0	828.5	828.5	828.5	833.5	831.0	836.0	833.5
42.5°	752.9	752.9	745.4	747.9	745.4	747.9	747.9	752.9	752.9	755.4	752.9
45°	674.9	674.9	672.4	674.9	669.9	672.4	669.9	674.9	672.4	674.9	674.9
47.5°	596.8	596.8	596.8	594.2	594.2	594.2	594.2	594.2	591.8	596.8	594.2
50°	523.8	526.2	523.8	523.8	521.2	523.8	521.2	521.2	516.2	518.8	518.8
52.5°	458.2	458.2	453.2	453.2	453.2	450.8	450.8	450.8	448.2	448.2	443.1
55°	395.4	395.4	390.2	390.2	387.8	385.2	382.8	382.8	375.2	375.2	367.6
57.5°	337.4	334.9	327.4	327.4	322.4	319.8	317.2	314.8	309.8	304.8	302.1
60°	284.5	279.5	274.5	272.0	266.9	261.9	256.9	251.8	246.8	244.2	241.8
62.5°	234.1	226.6	221.6	219.1	214.0	206.5	201.5	196.4	191.4	188.9	183.9
65°	188.9	181.2	173.8	171.2	166.2	161.1	153.6	148.6	143.5	141.0	141.0
67.5°	148.6	141.0	131.0	131.0	125.9	120.9	115.9	110.8	108.2	110.8	110.8
70°	110.8	105.8	98.2	95.8	90.6	85.6	83.1	83.1	83.1	85.6	83.1
72.5°	83.1	75.5	70.5	68.0	65.5	63.0	63.0	63.0	60.4	63.0	63.0
75°	57.9	52.9	47.9	47.9	45.4	45.4	45.4	45.4	45.4	45.4	45.4
77.5°	40.2	35.2	32.8	32.8	32.8	30.2	30.2	30.2	30.2	30.2	30.2
80°	25.1	25.1	22.6	22.6	20.1	20.1	20.1	20.1	20.1	20.1	20.1
82.5°	15.1	15.1	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
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: P252481

CATALOG NUMBER: LE_6B30D010 EC6B30508035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1813.0	1813.0	1813.0	1813.0	1813.0	1813.0	1813.0	1813.0
2.5°	1790.4	1797.9	1787.9	1795.4	1792.9	1790.4	1785.4	1795.4
5°	1760.1	1762.6	1752.6	1762.6	1760.1	1755.1	1750.1	1760.1
7.5°	1717.4	1724.9	1712.2	1722.4	1719.9	1714.9	1709.8	1719.9
10°	1669.5	1677.0	1667.0	1674.5	1674.5	1669.5	1662.0	1672.0
12.5°	1616.6	1621.6	1611.6	1621.6	1619.1	1614.1	1611.6	1619.1
15°	1558.8	1566.2	1556.1	1563.8	1561.2	1558.8	1556.1	1563.8
17.5°	1495.8	1503.2	1495.8	1503.2	1503.2	1495.8	1493.2	1498.2
20°	1432.8	1437.9	1430.2	1437.9	1435.4	1435.4	1430.2	1437.9
22.5°	1362.2	1369.9	1364.8	1369.9	1367.4	1367.4	1364.8	1369.9
25°	1291.8	1299.4	1291.8	1299.4	1296.9	1296.9	1291.8	1304.4
27.5°	1221.2	1226.4	1218.8	1228.9	1226.4	1221.2	1223.8	1226.4
30°	1145.8	1150.8	1145.8	1153.2	1153.2	1153.2	1148.2	1153.2
32.5°	1070.2	1077.8	1070.2	1077.8	1075.2	1075.2	1072.8	1077.8
35°	994.6	997.1	992.1	999.6	999.6	1002.2	997.1	1004.8
37.5°	916.6	919.1	916.6	919.1	924.1	916.6	921.6	924.1
40°	836.0	841.0	838.5	841.0	841.0	843.6	841.0	843.6
42.5°	755.4	760.5	755.4	763.0	760.5	760.5	763.0	763.0
45°	672.4	679.9	674.9	679.9	682.4	679.9	679.9	684.9
47.5°	594.2	599.2	596.8	599.2	599.2	599.2	599.2	604.4
50°	516.2	518.8	518.8	521.2	521.2	523.8	518.8	521.2
52.5°	438.1	443.1	443.1	443.1	440.6	443.1	443.1	443.1
55°	367.6	370.1	365.1	370.1	370.1	367.6	367.6	372.6
57.5°	299.6	299.6	299.6	299.6	299.6	297.1	299.6	299.6
60°	236.8	239.2	236.8	236.8	236.8	236.8	234.1	239.2
62.5°	183.9	183.9	181.2	183.9	183.9	183.9	186.4	186.4
65°	143.5	146.0	143.5	146.0	146.0	146.0	146.0	148.6
67.5°	113.4	113.4	113.4	113.4	113.4	113.4	113.4	113.4
70°	85.6	85.6	85.6	88.1	85.6	85.6	85.6	88.1
72.5°	63.0	63.0	63.0	63.0	63.0	63.0	65.5	65.5
75°	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
77.5°	30.2	30.2	30.2	32.8	30.2	32.8	30.2	30.2
80°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
82.5°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
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



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













(END OF REPORT)