

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: P252280

Luminaire Tested: **LE_6B30D010 EC6B30509040 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B30D010 EC6B30509040 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2962.4 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

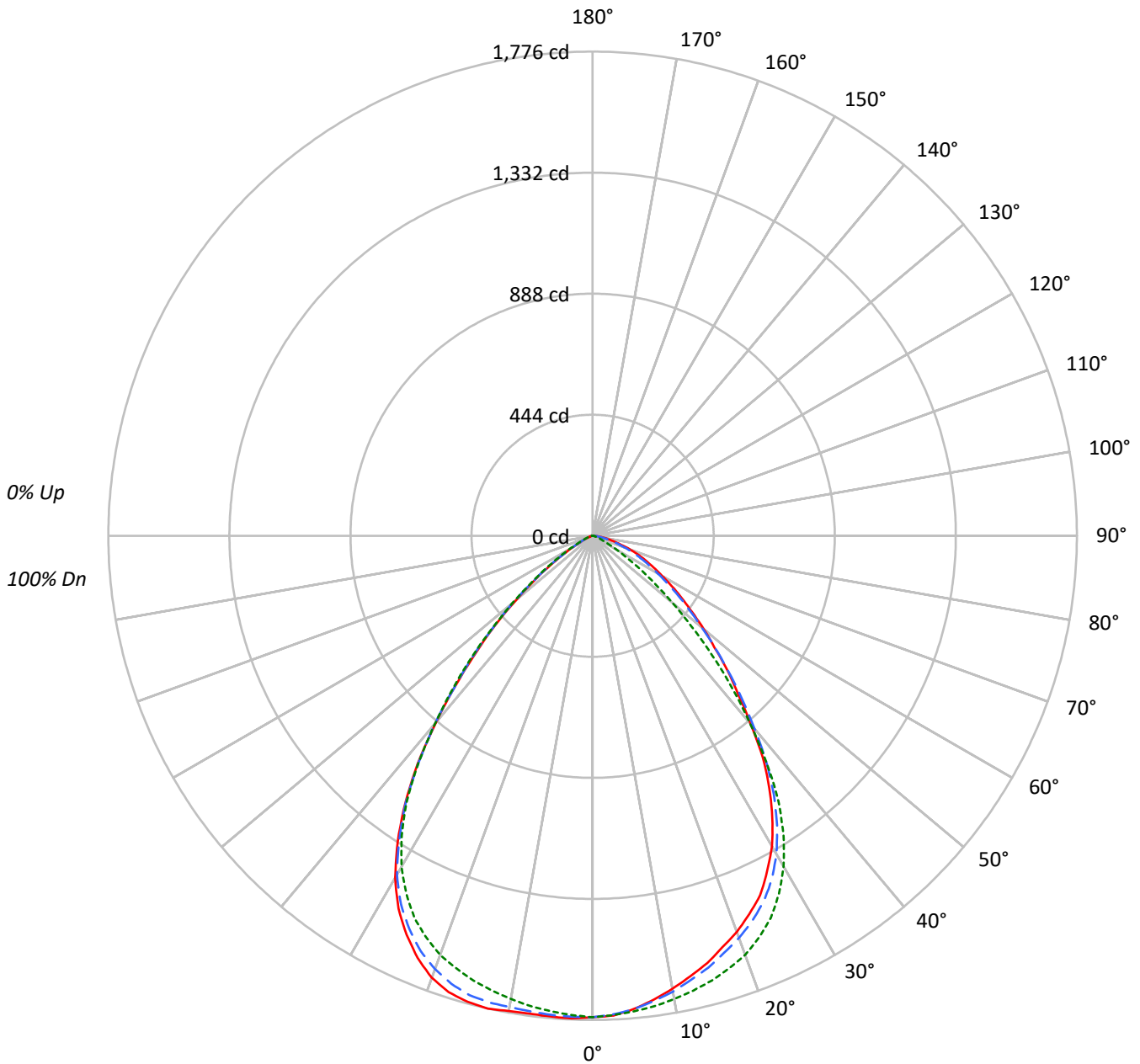
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80			80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64			64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58			58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43			43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40			40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	115208	115208	115208
5°	114109	114666	115924
10°	111752	114289	117264
15°	109621	114079	119556
20°	107342	113570	119777
25°	104702	111296	116213
30°	99131	105550	109090
35°	90014	94609	95453
40°	76828	76470	76104
45°	64539	57259	55488
50°	53895	38751	36792
55°	45361	23772	21589
60°	38388	12526	10843
65°	33252	6576	5264
70°	27659	4082	2842
75°	20418	2672	1613
80°	16005	1578	789
85°	12725	1572	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	5.6
10°-20°	476.5	16.1
20°-30°	703.6	23.8
30°-40°	725.2	24.5
40°-50°	500.9	16.9
50°-60°	246.9	8.3
60°-70°	100.0	3.4
70°-80°	35.6	1.2
80°-90°	7.3	0.2
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°	1346.6	45.5
0°-40°	2071.7	69.9
0°-60°	2819.4	95.2
0°-90°	2962.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2962.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1766	1766	1766	1766	1766	
5°	1742	1742	1751	1764	1770	165
15°	1623	1640	1689	1744	1770	457
25°	1454	1482	1546	1591	1614	665
35°	1130	1158	1188	1194	1198	700
45°	700	704	621	612	601	541
55°	399	384	209	196	190	360
65°	215	194	43	34	34	214
75°	81	68	11	6	6	91
85°	17	13	2	0	0	21
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°	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9
2.5°	1761.6	1755.1	1759.4	1750.9	1761.6	1750.9	1753.0	1755.1	1753.0	1755.1	1757.2
5°	1742.4	1736.0	1742.4	1731.8	1742.4	1736.0	1736.0	1738.1	1738.1	1740.2	1742.4
7.5°	1716.8	1710.4	1716.8	1706.1	1718.9	1712.5	1712.5	1716.8	1714.6	1716.8	1721.0
10°	1686.9	1678.4	1684.8	1678.4	1691.2	1682.6	1686.9	1686.9	1686.9	1693.4	1697.6
12.5°	1654.9	1646.4	1654.9	1644.2	1657.1	1650.6	1652.8	1659.2	1661.4	1665.6	1667.8
15°	1623.0	1612.2	1616.5	1610.1	1623.0	1616.5	1618.6	1627.2	1627.2	1633.6	1640.0
17.5°	1582.4	1573.9	1582.4	1573.9	1584.5	1580.2	1584.5	1591.0	1591.0	1597.4	1603.8
20°	1546.1	1537.6	1544.0	1537.6	1550.4	1544.0	1546.1	1554.8	1556.9	1563.2	1569.6
22.5°	1501.4	1495.0	1499.2	1492.9	1505.6	1501.4	1503.5	1512.0	1514.1	1518.5	1529.1
25°	1454.5	1441.6	1448.1	1443.8	1456.6	1450.2	1454.5	1463.0	1467.2	1473.6	1482.2
27.5°	1386.2	1379.9	1384.1	1384.1	1394.8	1388.4	1390.5	1399.0	1405.4	1411.9	1422.5
30°	1315.9	1305.1	1309.5	1311.6	1320.1	1315.9	1320.1	1328.6	1330.8	1339.2	1347.9
32.5°	1226.2	1222.0	1230.5	1226.2	1230.5	1230.5	1232.6	1239.1	1243.4	1247.6	1258.2
35°	1130.2	1121.8	1130.2	1126.0	1136.8	1130.2	1136.8	1143.1	1143.1	1151.6	1158.0
37.5°	1025.8	1015.1	1019.4	1019.4	1023.6	1021.5	1021.5	1032.2	1034.4	1040.8	1047.1
40°	902.1	897.9	906.4	904.2	906.4	906.4	908.5	914.9	919.1	921.2	923.4
42.5°	791.2	793.4	795.5	795.5	795.5	795.5	795.5	804.0	801.9	808.2	810.4
45°	699.5	691.0	695.2	693.1	699.5	693.1	699.5	705.9	701.6	708.0	703.8
47.5°	605.6	605.6	605.6	603.5	607.8	605.6	609.9	612.1	612.1	612.1	609.9
50°	531.0	524.6	526.8	526.8	528.9	526.8	531.0	533.1	533.1	528.9	520.4
52.5°	458.5	456.4	456.4	460.6	460.6	458.5	458.5	458.5	458.5	452.1	447.9
55°	398.8	394.5	396.6	396.6	396.6	396.6	398.8	396.6	396.6	390.2	383.9
57.5°	345.5	341.2	341.2	341.2	343.4	341.2	341.2	341.2	339.1	332.8	324.1
60°	294.2	292.1	294.2	294.2	296.5	294.2	294.2	294.2	290.0	283.6	275.1
62.5°	251.6	251.6	251.6	253.8	253.8	251.6	251.6	249.5	247.4	238.9	230.4
65°	215.4	213.2	215.4	215.4	217.5	217.5	215.4	213.2	211.1	202.6	194.1
67.5°	179.1	177.0	179.1	179.1	181.2	179.1	179.1	179.1	172.8	168.5	160.0
70°	145.0	142.9	142.9	142.9	145.0	140.8	142.9	142.9	138.6	132.2	123.8
72.5°	110.9	110.9	110.9	110.9	110.9	110.9	108.8	108.8	104.5	98.1	93.9
75°	81.0	81.0	83.1	83.1	81.0	81.0	81.0	78.9	76.8	72.5	68.2
77.5°	59.8	59.8	59.8	59.8	57.6	57.6	57.6	55.5	53.4	51.1	46.9
80°	42.6	42.6	42.6	40.5	42.6	40.5	40.5	40.5	36.2	34.1	32.0
82.5°	29.9	27.8	27.8	27.8	27.8	27.8	27.8	25.6	25.6	23.5	21.4
85°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	14.9	12.8	12.8
87.5°	8.5	10.6	10.6	10.6	10.6	10.6	10.6	8.5	8.5	8.5	6.4
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°	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9
2.5°	1757.2	1757.2	1761.6	1755.1	1765.9	1759.4	1757.2	1768.0	1761.6	1759.4	1763.8
5°	1742.4	1744.5	1746.6	1742.4	1753.0	1746.6	1746.6	1757.2	1753.0	1750.9	1757.2
7.5°	1723.1	1725.2	1729.6	1727.5	1736.0	1731.8	1733.9	1744.5	1740.2	1740.2	1746.6
10°	1699.8	1704.0	1708.2	1708.2	1718.9	1714.6	1714.6	1727.5	1723.1	1725.2	1733.9
12.5°	1672.0	1678.4	1684.8	1686.9	1697.6	1691.2	1693.4	1708.2	1706.1	1708.2	1716.8
15°	1642.1	1650.6	1657.1	1657.1	1669.9	1663.5	1669.9	1684.8	1680.5	1689.0	1699.8
17.5°	1608.0	1616.5	1625.1	1627.2	1640.0	1635.8	1644.2	1659.2	1659.2	1663.5	1676.2
20°	1576.0	1586.8	1591.0	1597.4	1610.1	1608.0	1612.2	1629.4	1629.4	1635.8	1648.5
22.5°	1533.4	1544.0	1552.6	1559.0	1569.6	1569.6	1576.0	1591.0	1591.0	1595.2	1608.0
25°	1486.5	1499.2	1505.6	1512.0	1522.8	1520.6	1527.0	1539.8	1541.9	1546.1	1559.0
27.5°	1426.8	1437.4	1445.9	1450.2	1465.1	1456.6	1463.0	1477.9	1475.8	1480.0	1490.8
30°	1352.1	1362.8	1371.2	1371.2	1384.1	1384.1	1390.5	1396.9	1396.9	1401.1	1409.6
32.5°	1264.6	1277.5	1277.5	1283.9	1292.4	1283.9	1292.4	1300.9	1296.6	1303.0	1309.5
35°	1164.4	1170.9	1173.0	1173.0	1179.4	1177.2	1175.1	1181.5	1177.2	1187.9	1194.2
37.5°	1042.9	1051.4	1047.1	1051.4	1049.2	1042.9	1042.9	1053.5	1045.0	1047.1	1053.5
40°	925.6	925.6	923.4	912.8	914.9	908.5	906.4	908.5	900.0	897.9	906.4
42.5°	804.0	801.9	795.5	780.5	782.6	772.0	763.5	763.5	759.2	757.1	759.2
45°	695.2	688.9	678.1	661.1	656.9	648.4	631.2	627.0	620.6	620.6	622.8
47.5°	595.0	586.5	569.4	550.2	539.5	528.9	511.9	505.5	494.8	490.5	494.8
50°	511.9	496.9	475.6	447.9	437.2	424.4	407.4	396.6	386.0	381.8	379.6
52.5°	435.0	413.8	392.4	358.2	349.8	337.0	313.5	302.9	292.1	283.6	283.6
55°	369.0	349.8	319.9	287.9	275.1	262.4	238.9	223.9	213.2	209.0	204.8
57.5°	309.2	287.9	260.1	226.0	213.2	200.5	177.0	162.1	151.4	145.0	140.8
60°	260.1	236.8	209.0	179.1	164.2	151.4	128.0	113.0	102.4	96.0	91.8
62.5°	213.2	194.1	166.4	138.6	125.9	113.0	93.9	78.9	68.2	64.0	57.6
65°	179.1	160.0	134.4	110.9	100.2	87.5	70.4	57.6	49.0	42.6	38.4
67.5°	145.0	130.1	108.8	87.5	76.8	68.2	53.4	42.6	34.1	29.9	27.8
70°	115.1	100.2	83.1	66.1	59.8	51.1	40.5	29.9	25.6	21.4	19.2
72.5°	85.2	74.6	61.9	49.0	42.6	38.4	27.8	23.5	17.0	14.9	12.8
75°	61.9	53.4	44.8	34.1	29.9	27.8	21.4	14.9	12.8	10.6	8.5
77.5°	42.6	38.4	29.9	23.5	21.4	19.2	14.9	10.6	8.5	6.4	6.4
80°	27.8	23.5	19.2	14.9	14.9	12.8	8.5	6.4	6.4	4.2	4.2
82.5°	17.0	14.9	12.8	10.6	8.5	8.5	6.4	4.2	4.2	2.1	2.1
85°	10.6	8.5	6.4	6.4	4.2	4.2	4.2	2.1	2.1	2.1	2.1
87.5°	4.2	4.2	4.2	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
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°	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9
2.5°	1763.8	1763.8	1768.0	1761.6	1765.9	1765.9	1770.1	1761.6	1765.9	1768.0	1772.2
5°	1755.1	1757.2	1761.6	1759.4	1761.6	1761.6	1765.9	1755.1	1763.8	1763.8	1770.1
7.5°	1746.6	1746.6	1750.9	1748.8	1753.0	1755.1	1759.4	1750.9	1759.4	1759.4	1765.9
10°	1736.0	1736.0	1742.4	1740.2	1746.6	1748.8	1755.1	1746.6	1755.1	1757.2	1763.8
12.5°	1721.0	1723.1	1729.6	1729.6	1736.0	1740.2	1746.6	1742.4	1753.0	1755.1	1763.8
15°	1704.0	1708.2	1716.8	1714.6	1721.0	1727.5	1736.0	1729.6	1744.5	1748.8	1757.2
17.5°	1682.6	1686.9	1693.4	1693.4	1699.8	1704.0	1714.6	1710.4	1723.1	1725.2	1736.0
20°	1650.6	1657.1	1665.6	1663.5	1669.9	1674.1	1682.6	1678.4	1691.2	1695.5	1706.1
22.5°	1612.2	1616.5	1623.0	1623.0	1629.4	1633.6	1642.1	1635.8	1648.5	1650.6	1659.2
25°	1561.1	1565.4	1569.6	1571.8	1578.1	1580.2	1584.5	1580.2	1591.0	1593.1	1603.8
27.5°	1495.0	1497.1	1503.5	1503.5	1507.8	1509.9	1516.4	1507.8	1522.8	1522.8	1529.1
30°	1416.1	1414.0	1422.5	1418.2	1422.5	1422.5	1428.9	1424.6	1435.2	1431.0	1437.4
32.5°	1311.6	1315.9	1315.9	1311.6	1320.1	1318.0	1318.0	1313.8	1320.1	1322.2	1326.5
35°	1190.0	1196.4	1196.4	1198.5	1200.6	1194.2	1196.4	1183.6	1194.2	1196.4	1198.5
37.5°	1057.8	1051.4	1055.6	1049.2	1059.9	1047.1	1047.1	1038.6	1047.1	1047.1	1049.2
40°	906.4	904.2	908.5	904.2	902.1	900.0	895.8	889.4	897.9	893.6	900.0
42.5°	763.5	761.4	761.4	757.1	755.0	755.0	750.8	746.4	744.2	744.2	755.0
45°	616.4	620.6	616.4	614.2	618.5	614.2	616.4	607.8	612.1	607.8	612.1
47.5°	492.6	494.8	490.5	486.2	492.6	486.2	486.2	479.9	488.4	488.4	484.1
50°	381.8	379.6	375.4	379.6	377.5	377.5	377.5	371.1	375.4	369.0	373.2
52.5°	281.5	279.4	279.4	277.2	279.4	277.2	277.2	275.1	275.1	273.0	275.1
55°	204.8	202.6	198.4	198.4	198.4	200.5	198.4	196.2	196.2	194.1	196.2
57.5°	138.6	134.4	134.4	134.4	134.4	132.2	132.2	130.1	132.2	130.1	132.2
60°	89.6	89.6	85.2	85.2	85.2	85.2	85.2	83.1	85.2	85.2	85.2
62.5°	55.5	55.5	53.4	51.1	53.4	51.1	51.1	51.1	53.4	51.1	53.4
65°	36.2	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1
67.5°	25.6	23.5	23.5	23.5	23.5	23.5	23.5	21.4	23.5	23.5	23.5
70°	17.0	17.0	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
72.5°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
75°	8.5	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
77.5°	6.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
80°	4.2	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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: P252280

CATALOG NUMBER: LE_6B30D010 EC6B30509040 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9
2.5°	1765.9	1768.0	1763.8	1765.9	1761.6	1765.9	1768.0	1772.2
5°	1761.6	1763.8	1759.4	1763.8	1759.4	1763.8	1765.9	1770.1
7.5°	1757.2	1761.6	1757.2	1761.6	1757.2	1761.6	1763.8	1768.0
10°	1757.2	1763.8	1759.4	1765.9	1759.4	1763.8	1768.0	1770.1
12.5°	1757.2	1763.8	1761.6	1765.9	1763.8	1768.0	1772.2	1776.5
15°	1753.0	1759.4	1755.1	1761.6	1759.4	1761.6	1770.1	1770.1
17.5°	1729.6	1736.0	1736.0	1740.2	1740.2	1746.6	1750.9	1755.1
20°	1699.8	1706.1	1704.0	1710.4	1710.4	1716.8	1721.0	1725.2
22.5°	1654.9	1663.5	1661.4	1667.8	1665.6	1669.9	1678.4	1676.2
25°	1597.4	1608.0	1605.9	1610.1	1608.0	1608.0	1612.2	1614.4
27.5°	1527.0	1533.4	1531.2	1535.5	1531.2	1535.5	1539.8	1541.9
30°	1435.2	1439.5	1437.4	1439.5	1437.4	1441.6	1443.8	1448.1
32.5°	1324.4	1330.8	1324.4	1328.6	1326.5	1326.5	1335.0	1330.8
35°	1192.1	1194.2	1196.4	1196.4	1192.1	1194.2	1198.5	1198.5
37.5°	1045.0	1055.6	1042.9	1049.2	1047.1	1047.1	1047.1	1053.5
40°	891.5	893.6	889.4	889.4	889.4	887.1	895.8	893.6
42.5°	746.4	748.5	746.4	740.0	742.1	742.1	748.5	740.0
45°	605.6	609.9	607.8	607.8	603.5	603.5	605.6	601.4
47.5°	479.9	484.1	477.8	479.9	475.6	479.9	477.8	482.0
50°	364.6	369.0	366.9	369.0	369.0	364.6	371.1	362.5
52.5°	273.0	275.1	273.0	270.9	268.8	268.8	273.0	270.9
55°	194.1	192.0	192.0	192.0	194.1	194.1	192.0	189.8
57.5°	130.1	130.1	128.0	128.0	130.1	125.9	128.0	125.9
60°	83.1	83.1	83.1	83.1	81.0	83.1	83.1	83.1
62.5°	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
65°	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1
67.5°	21.4	23.5	23.5	23.5	21.4	21.4	21.4	21.4
70°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
72.5°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
75°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	2.1	2.1	2.1	2.1	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)