

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: P252593

Luminaire Tested: **LE_6B30D010 EC6B30509050 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B30D010 EC6B30509050 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3208.7 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

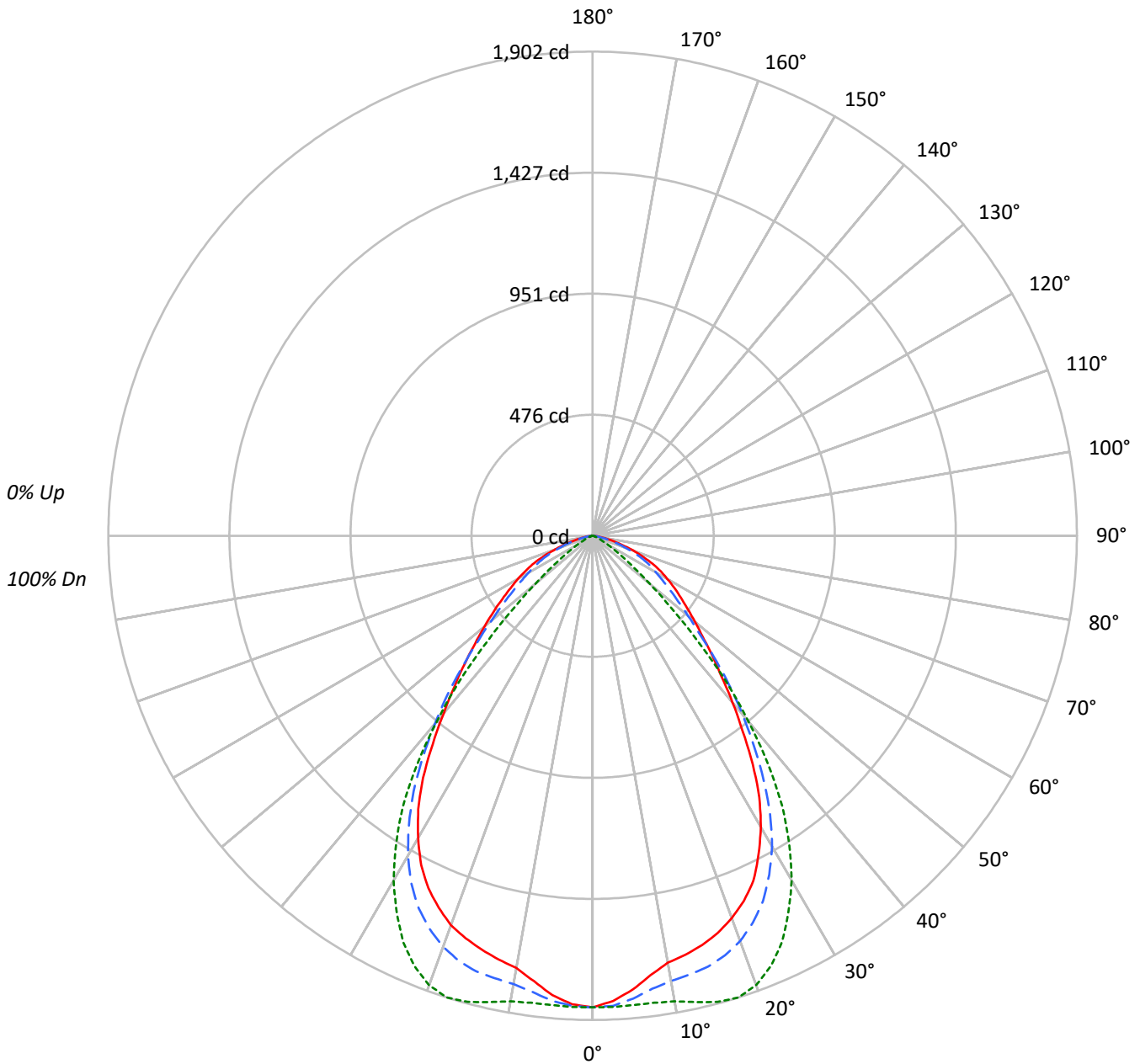
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89			89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79			79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70			70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50			50
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46			46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42			42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38			38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35			35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	120865	120865	120865
5°	117260	121182	118661
10°	112792	123014	114217
15°	112397	128019	113700
20°	110931	130399	113014
25°	107610	126730	109921
30°	99546	117784	103267
35°	87330	103537	92451
40°	72774	81163	77518
45°	61254	53550	65406
50°	53042	29343	56310
55°	47988	15594	49205
60°	44155	8103	44155
65°	39998	4307	39025
70°	32275	2461	29833
75°	22132	1613	20519
80°	14465	789	12849
85°	9656	1572	8084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.8	5.4
10°-20°	499.5	15.6
20°-30°	738.0	23.0
30°-40°	745.5	23.2
40°-50°	513.8	16.0
50°-60°	295.1	9.2
60°-70°	171.8	5.4
70°-80°	62.7	2.0
80°-90°	9.6	0.3
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°	1410.3	44.0
0°-40°	2155.8	67.2
0°-60°	2964.7	92.4
0°-90°	3208.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3208.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1853	1853	1853	1853	1853	
5°	1790	1825	1850	1833	1812	168
15°	1664	1752	1895	1771	1683	469
25°	1495	1583	1760	1615	1527	681
35°	1096	1172	1300	1225	1161	681
45°	664	672	580	715	709	516
55°	422	370	137	386	433	380
65°	259	218	28	216	253	254
75°	88	71	6	68	81	99
85°	13	6	2	9	11	16
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°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6
2.5°	1829.0	1831.1	1833.2	1831.1	1833.2	1841.9	1835.5	1839.8	1839.8	1841.9	1848.2
5°	1790.5	1790.5	1794.8	1792.6	1799.0	1807.6	1801.1	1807.6	1809.8	1814.0	1824.8
7.5°	1741.2	1741.2	1743.4	1743.4	1751.9	1760.5	1756.2	1764.8	1773.4	1781.9	1794.8
10°	1702.6	1706.9	1706.9	1709.1	1717.6	1728.4	1726.2	1736.9	1745.5	1758.4	1775.5
12.5°	1685.5	1687.6	1687.6	1692.0	1700.5	1711.2	1709.1	1719.8	1732.6	1747.6	1764.8
15°	1664.1	1668.4	1666.2	1670.5	1679.1	1689.8	1687.6	1698.4	1713.4	1728.4	1751.9
17.5°	1636.2	1638.4	1640.5	1640.5	1649.1	1657.6	1657.6	1668.4	1685.5	1702.6	1728.4
20°	1597.8	1602.0	1602.0	1604.1	1610.5	1623.4	1621.2	1632.0	1649.1	1666.2	1694.1
22.5°	1552.8	1554.9	1554.9	1557.0	1567.8	1574.1	1576.2	1584.9	1599.9	1619.1	1644.9
25°	1494.9	1497.0	1494.9	1501.4	1505.6	1518.5	1514.1	1524.9	1542.0	1557.0	1582.8
27.5°	1411.4	1415.6	1415.6	1417.8	1428.5	1439.2	1439.2	1449.9	1464.9	1475.6	1501.4
30°	1321.4	1327.9	1321.4	1332.1	1336.4	1345.0	1351.4	1357.9	1370.8	1385.6	1409.2
32.5°	1218.6	1216.5	1218.6	1222.9	1235.8	1242.1	1246.5	1252.9	1265.8	1278.6	1297.9
35°	1096.5	1100.9	1103.0	1111.5	1111.5	1122.2	1124.4	1128.6	1148.0	1156.5	1171.5
37.5°	968.0	972.4	974.5	978.8	987.4	991.6	998.0	1004.5	1017.2	1032.2	1040.9
40°	854.5	854.5	856.6	861.0	867.4	869.5	876.0	884.5	893.1	906.0	914.5
42.5°	747.5	749.6	747.5	751.8	758.1	766.8	764.6	775.2	777.4	786.0	792.4
45°	663.9	663.9	659.6	663.9	663.9	672.5	670.4	674.6	672.5	676.8	672.5
47.5°	584.6	586.9	584.6	586.9	586.9	586.9	589.0	584.6	586.9	580.4	567.5
50°	522.6	524.8	520.4	522.6	520.4	518.2	520.4	514.0	511.9	503.2	490.5
52.5°	469.0	466.9	464.8	464.8	464.8	462.6	460.5	454.0	447.6	439.0	424.0
55°	421.9	419.8	417.6	417.6	413.4	411.2	411.2	404.8	398.4	387.6	370.5
57.5°	379.1	377.0	374.8	374.8	372.6	368.4	368.4	362.0	353.4	340.5	325.5
60°	338.4	338.4	338.4	336.2	336.2	332.0	332.0	325.5	317.0	304.1	287.0
62.5°	302.0	299.9	299.9	299.9	299.9	297.8	295.5	291.2	282.8	269.9	254.9
65°	259.1	259.1	259.1	259.1	257.0	257.0	257.0	250.6	246.2	233.5	218.5
67.5°	212.0	212.0	212.0	212.0	209.9	212.0	212.0	207.8	203.5	190.6	177.8
70°	169.2	167.0	164.9	167.0	164.9	164.9	167.0	162.8	160.6	149.9	137.1
72.5°	124.2	126.4	124.2	124.2	124.2	122.1	124.2	122.1	117.8	109.2	100.6
75°	87.8	90.0	90.0	87.8	87.8	87.8	85.6	85.6	81.4	75.0	70.6
77.5°	60.0	60.0	60.0	60.0	57.9	57.9	57.9	55.6	53.5	49.2	45.0
80°	38.5	38.5	38.5	38.5	36.4	36.4	36.4	34.2	34.2	30.0	25.8
82.5°	23.5	23.5	23.5	23.5	23.5	23.5	21.4	21.4	19.2	17.1	15.0
85°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	10.8	10.8	8.6	6.4
87.5°	4.2	4.2	6.4	6.4	6.4	6.4	6.4	6.4	4.2	4.2	4.2
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°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6
2.5°	1844.0	1846.1	1846.1	1846.1	1852.6	1854.8	1848.2	1841.9	1854.8	1852.6	1856.9
5°	1822.6	1829.0	1833.2	1835.5	1841.9	1846.1	1839.8	1837.6	1848.2	1850.4	1852.6
7.5°	1796.9	1807.6	1818.2	1822.6	1831.1	1835.5	1833.2	1833.2	1846.1	1850.4	1850.4
10°	1779.8	1794.8	1807.6	1818.2	1829.0	1835.5	1835.5	1837.6	1852.6	1856.9	1861.1
12.5°	1775.5	1794.8	1811.9	1826.9	1835.5	1846.1	1848.2	1854.8	1869.8	1876.1	1876.1
15°	1764.8	1790.5	1811.9	1831.1	1844.0	1856.9	1861.1	1874.0	1891.1	1895.4	1899.8
17.5°	1745.5	1771.1	1796.9	1820.5	1837.6	1848.2	1861.1	1874.0	1895.4	1901.9	1904.0
20°	1711.2	1741.2	1766.9	1790.5	1807.6	1822.6	1835.5	1850.4	1869.8	1878.2	1880.4
22.5°	1659.9	1689.8	1715.5	1741.2	1758.4	1771.1	1784.0	1801.1	1820.5	1829.0	1829.0
25°	1597.8	1625.5	1653.4	1672.6	1689.8	1704.8	1711.2	1730.5	1749.8	1760.5	1760.5
27.5°	1518.5	1544.1	1569.9	1591.2	1602.0	1614.9	1625.5	1642.6	1657.6	1666.2	1674.8
30°	1417.8	1443.5	1467.1	1488.5	1501.4	1514.1	1524.9	1537.8	1552.8	1563.5	1565.6
32.5°	1308.6	1330.0	1353.5	1375.0	1387.9	1392.1	1402.9	1415.6	1428.5	1437.1	1439.2
35°	1188.6	1203.6	1218.6	1237.9	1250.8	1250.8	1261.5	1270.0	1280.8	1300.0	1295.8
37.5°	1047.2	1068.8	1079.4	1085.9	1094.4	1103.0	1105.1	1115.9	1128.6	1133.0	1139.4
40°	914.5	920.9	927.4	927.4	935.9	935.9	935.9	938.1	950.9	953.0	961.6
42.5°	781.8	781.8	775.2	768.9	771.0	768.9	758.1	758.1	764.6	773.1	773.1
45°	657.5	642.5	623.2	608.2	597.5	593.2	580.4	580.4	578.2	580.4	589.0
47.5°	552.5	526.9	494.8	464.8	454.0	445.5	426.2	417.6	413.4	415.5	419.8
50°	464.8	436.9	400.5	364.1	344.9	334.1	310.5	295.5	293.4	289.1	297.8
52.5°	400.5	366.2	327.6	284.9	265.6	248.4	222.8	209.9	201.4	201.4	203.5
55°	344.9	308.4	265.6	222.8	203.5	190.6	164.9	147.8	139.2	137.1	143.5
57.5°	297.8	263.4	220.6	177.8	158.5	143.5	117.8	102.8	96.4	92.1	94.2
60°	261.2	227.0	184.1	143.5	126.4	109.2	87.8	70.6	62.1	62.1	64.2
62.5°	227.0	194.9	156.4	117.8	102.8	87.8	64.2	49.2	42.9	40.8	42.9
65°	192.8	162.8	130.6	98.5	83.5	70.6	51.4	38.5	30.0	27.9	30.0
67.5°	156.4	132.8	105.0	79.2	66.4	55.6	38.5	27.9	21.4	19.2	21.4
70°	122.1	100.6	79.2	57.9	49.2	40.8	27.9	21.4	15.0	12.9	15.0
72.5°	87.8	72.9	55.6	40.8	34.2	27.9	19.2	15.0	10.8	8.6	10.8
75°	60.0	49.2	36.4	25.8	21.4	19.2	12.9	8.6	6.4	6.4	6.4
77.5°	38.5	30.0	23.5	17.1	12.9	10.8	6.4	4.2	4.2	4.2	4.2
80°	21.4	17.1	12.9	8.6	6.4	6.4	4.2	4.2	2.1	2.1	2.1
82.5°	12.9	8.6	6.4	4.2	4.2	2.1	2.1	2.1	2.1	2.1	2.1
85°	6.4	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	2.1	2.1	0.0	0.0	0.0	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°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6
2.5°	1848.2	1850.4	1844.0	1852.6	1846.1	1854.8	1854.8	1846.1	1848.2	1844.0	1852.6
5°	1844.0	1844.0	1839.8	1846.1	1837.6	1846.1	1844.0	1829.0	1833.2	1824.8	1833.2
7.5°	1844.0	1839.8	1833.2	1839.8	1829.0	1835.5	1826.9	1811.9	1807.6	1796.9	1796.9
10°	1850.4	1844.0	1835.5	1837.6	1826.9	1829.0	1816.1	1794.8	1788.4	1775.5	1771.1
12.5°	1865.4	1859.0	1846.1	1850.4	1835.5	1835.5	1818.2	1792.6	1779.8	1762.6	1758.4
15°	1886.9	1876.1	1861.1	1863.2	1848.2	1839.8	1818.2	1788.4	1771.1	1747.6	1741.2
17.5°	1891.1	1880.4	1861.1	1861.1	1841.9	1831.1	1805.5	1771.1	1749.8	1726.2	1713.4
20°	1867.6	1856.9	1835.5	1833.2	1816.1	1801.1	1773.4	1739.0	1717.6	1692.0	1681.2
22.5°	1818.2	1805.5	1786.1	1784.0	1766.9	1758.4	1728.4	1694.1	1672.6	1647.0	1638.4
25°	1745.5	1739.0	1719.8	1717.6	1702.6	1692.0	1666.2	1634.1	1614.9	1589.1	1580.6
27.5°	1659.9	1653.4	1634.1	1634.1	1617.0	1610.5	1587.0	1557.0	1542.0	1518.5	1507.8
30°	1557.0	1548.5	1537.8	1535.6	1520.6	1514.1	1492.8	1464.9	1449.9	1430.6	1426.4
32.5°	1435.0	1428.5	1422.1	1420.0	1405.0	1398.5	1383.5	1355.8	1342.9	1325.8	1319.2
35°	1293.6	1289.2	1282.9	1280.8	1274.2	1267.9	1252.9	1231.5	1225.0	1212.2	1205.8
37.5°	1130.9	1135.1	1130.9	1130.9	1124.4	1126.5	1113.6	1100.9	1094.4	1085.9	1081.5
40°	955.2	963.8	970.2	970.2	968.0	976.6	974.5	963.8	961.6	957.4	955.2
42.5°	777.4	781.8	794.6	803.1	801.0	822.4	824.5	833.1	839.5	835.2	837.4
45°	591.1	604.0	621.1	629.6	640.4	668.2	683.2	700.4	715.4	723.9	721.8
47.5°	426.2	441.2	460.5	473.4	492.6	526.9	565.4	586.9	608.2	619.0	629.6
50°	308.4	323.4	347.0	366.2	379.1	426.2	466.9	494.8	518.2	533.2	544.0
52.5°	216.2	233.5	259.1	276.2	295.5	340.5	387.6	419.8	445.5	464.8	475.5
55°	149.9	169.2	192.8	209.9	231.2	278.4	323.4	357.6	385.5	402.6	415.5
57.5°	105.0	122.1	145.6	160.6	182.0	227.0	272.0	306.2	334.1	351.2	366.2
60°	70.6	87.8	111.4	126.4	143.5	188.5	229.1	265.6	291.2	308.4	323.4
62.5°	49.2	64.2	87.8	102.8	117.8	156.4	194.9	227.0	252.8	272.0	284.9
65°	38.5	51.4	70.6	83.5	98.5	130.6	162.8	190.6	216.2	235.6	244.1
67.5°	27.9	40.8	55.6	66.4	77.1	105.0	132.8	154.2	177.8	192.8	203.5
70°	19.2	27.9	40.8	49.2	57.9	79.2	100.6	119.9	137.1	147.8	156.4
72.5°	15.0	19.2	27.9	34.2	40.8	55.6	72.9	87.8	100.6	109.2	117.8
75°	8.6	12.9	19.2	23.5	27.9	38.5	49.2	60.0	68.5	75.0	79.2
77.5°	4.2	6.4	10.8	12.9	17.1	23.5	32.1	38.5	45.0	49.2	53.5
80°	4.2	4.2	6.4	6.4	8.6	12.9	17.1	21.4	25.8	30.0	32.1
82.5°	2.1	2.1	4.2	4.2	4.2	6.4	8.6	12.9	15.0	17.1	19.2
85°	2.1	2.1	2.1	2.1	2.1	4.2	4.2	6.4	8.6	10.8	10.8
87.5°	0.0	0.0	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2	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



TEST NUMBER: P252593

CATALOG NUMBER: LE_6B30D010 EC6B30509050 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6
2.5°	1846.1	1850.4	1848.2	1852.6	1846.1	1844.0	1848.2	1841.9
5°	1822.6	1824.8	1822.6	1822.6	1818.2	1814.0	1818.2	1811.9
7.5°	1786.1	1786.1	1779.8	1779.8	1771.1	1766.9	1766.9	1764.8
10°	1756.2	1749.8	1743.4	1745.5	1732.6	1728.4	1726.2	1724.1
12.5°	1741.2	1736.9	1726.2	1726.2	1713.4	1709.1	1706.9	1704.8
15°	1724.1	1715.5	1706.9	1704.8	1694.1	1689.8	1687.6	1683.4
17.5°	1694.1	1687.6	1677.0	1677.0	1666.2	1664.1	1659.9	1657.6
20°	1662.0	1653.4	1644.9	1644.9	1632.0	1632.0	1625.5	1627.8
22.5°	1617.0	1610.5	1602.0	1602.0	1591.2	1589.1	1582.8	1580.6
25°	1563.5	1554.9	1548.5	1546.2	1537.8	1533.5	1531.4	1527.0
27.5°	1492.8	1486.4	1479.9	1475.6	1464.9	1462.8	1456.4	1458.5
30°	1405.0	1400.6	1398.5	1394.2	1381.4	1377.1	1377.1	1370.8
32.5°	1308.6	1302.1	1297.9	1291.5	1280.8	1278.6	1272.1	1274.2
35°	1190.8	1182.2	1175.8	1177.9	1165.1	1163.0	1158.6	1160.8
37.5°	1068.8	1060.1	1051.6	1049.4	1038.8	1038.8	1032.2	1032.2
40°	942.4	933.8	929.5	929.5	916.6	918.8	912.4	910.2
42.5°	828.9	820.2	818.1	816.0	809.6	807.4	801.0	803.1
45°	721.8	719.6	719.6	715.4	708.9	706.8	708.9	708.9
47.5°	627.5	629.6	627.5	627.5	623.2	627.5	623.2	625.4
50°	548.2	552.5	552.5	552.5	550.4	552.5	552.5	554.8
52.5°	481.9	488.2	486.1	488.2	486.1	490.5	488.2	490.5
55°	424.0	428.4	430.5	432.6	432.6	432.6	432.6	432.6
57.5°	370.5	377.0	379.1	381.2	381.2	385.5	381.2	381.2
60°	327.6	334.1	336.2	338.4	338.4	340.5	336.2	338.4
62.5°	289.1	295.5	295.5	297.8	297.8	297.8	293.4	295.5
65°	250.6	252.8	254.9	254.9	252.8	252.8	250.6	252.8
67.5°	207.8	209.9	207.8	207.8	205.6	205.6	201.4	203.5
70°	160.6	160.6	162.8	160.6	158.5	160.6	158.5	156.4
72.5°	119.9	119.9	119.9	117.8	117.8	115.6	117.8	117.8
75°	81.4	81.4	83.5	83.5	83.5	83.5	81.4	81.4
77.5°	53.5	53.5	53.5	53.5	55.6	53.5	53.5	53.5
80°	34.2	34.2	36.4	36.4	34.2	34.2	34.2	34.2
82.5°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
85°	12.9	12.9	12.9	12.9	10.8	10.8	10.8	10.8
87.5°	6.4	6.4	6.4	6.4	6.4	6.4	4.2	4.2
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)