

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: P252592

Luminaire Tested: **LE_6B30D010 EC6B30509040 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252592
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 EC6B30509040 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3195.0 lumens
Efficiency: N/A
Efficacy: 114.1 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

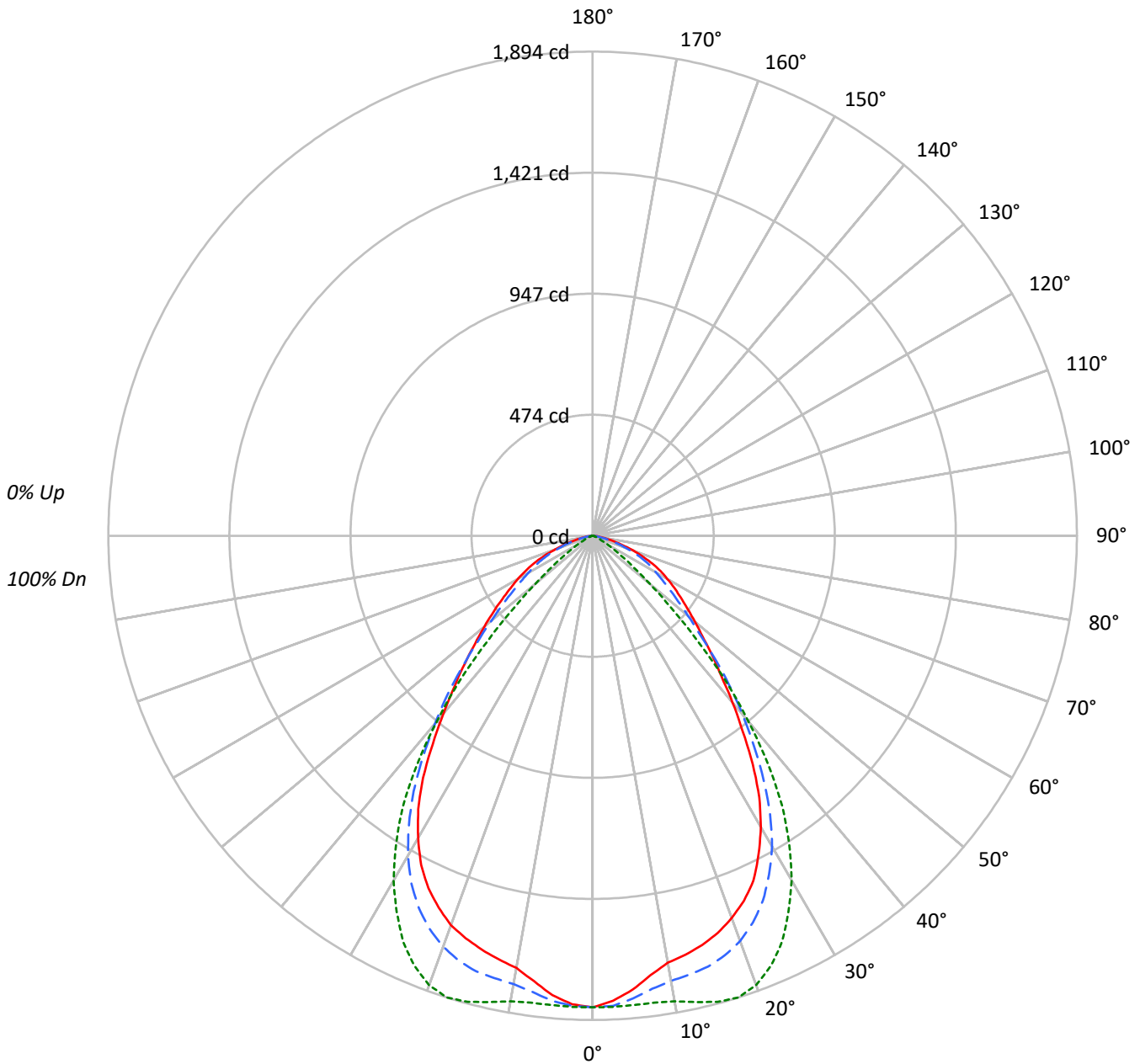
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	120343	120343	120343
5°	116755	120665	118150
10°	112315	122484	113720
15°	111917	127465	113207
20°	110452	129844	112528
25°	107150	126183	109453
30°	99124	117279	102823
35°	86963	103099	92061
40°	72467	80822	77194
45°	60996	53319	65129
50°	52819	29221	56067
55°	47784	15526	49001
60°	43972	8077	43972
65°	39828	4292	38840
70°	32142	2442	29681
75°	22031	1613	20418
80°	14427	789	12812
85°	9581	1572	7935



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	5.4
10°-20°	497.4	15.6
20°-30°	734.9	23.0
30°-40°	742.3	23.2
40°-50°	511.6	16.0
50°-60°	293.9	9.2
60°-70°	171.0	5.4
70°-80°	62.4	2.0
80°-90°	9.5	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°	1404.3	44.0
0°-40°	2146.6	67.2
0°-60°	2952.0	92.4
0°-90°	3195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3195.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1845	1845	1845	1845	1845	
5°	1783	1817	1842	1826	1804	167
15°	1657	1744	1887	1764	1676	467
25°	1488	1576	1753	1608	1520	678
35°	1092	1166	1294	1220	1156	678
45°	661	670	578	712	706	514
55°	420	369	136	384	431	378
65°	258	218	28	215	252	253
75°	87	70	6	68	81	98
85°	13	6	2	8	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°	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6
2.5°	1821.1	1823.2	1825.5	1823.2	1825.5	1834.0	1827.6	1831.9	1831.9	1834.0	1840.4
5°	1782.8	1782.8	1787.0	1784.9	1791.4	1799.9	1793.5	1799.9	1802.0	1806.2	1816.9
7.5°	1733.8	1733.8	1735.9	1735.9	1744.4	1752.9	1748.6	1757.2	1765.8	1774.2	1787.0
10°	1695.4	1699.6	1699.6	1701.8	1710.2	1721.0	1718.9	1729.5	1738.0	1750.8	1767.9
12.5°	1678.2	1680.4	1680.4	1684.8	1693.2	1703.9	1701.8	1712.4	1725.2	1740.1	1757.2
15°	1657.0	1661.2	1659.1	1663.4	1671.9	1682.5	1680.4	1691.1	1706.0	1721.0	1744.4
17.5°	1629.2	1631.4	1633.5	1633.5	1642.0	1650.6	1650.6	1661.2	1678.2	1695.4	1721.0
20°	1590.9	1595.1	1595.1	1597.2	1603.6	1616.5	1614.4	1625.0	1642.0	1659.1	1686.9
22.5°	1546.1	1548.2	1548.2	1550.4	1561.0	1567.4	1569.5	1578.1	1593.0	1612.2	1637.8
25°	1488.5	1490.6	1488.5	1494.9	1499.1	1512.0	1507.8	1518.4	1535.4	1550.4	1575.9
27.5°	1405.4	1409.6	1409.6	1411.8	1422.4	1433.0	1433.0	1443.8	1458.6	1469.2	1494.9
30°	1315.8	1322.1	1315.8	1326.4	1330.8	1339.2	1345.6	1352.0	1364.9	1379.8	1403.2
32.5°	1213.4	1211.2	1213.4	1217.6	1230.5	1236.9	1241.1	1247.5	1260.4	1273.1	1292.2
35°	1091.9	1096.1	1098.2	1106.8	1106.8	1117.5	1119.6	1123.9	1143.0	1151.6	1166.5
37.5°	963.9	968.1	970.2	974.6	983.1	987.4	993.8	1000.1	1013.0	1027.9	1036.4
40°	850.9	850.9	853.0	857.2	863.6	865.8	872.2	880.8	889.2	902.0	910.6
42.5°	744.2	746.4	744.2	748.5	754.9	763.5	761.2	772.0	774.1	782.6	789.0
45°	661.1	661.1	656.9	661.1	661.1	669.6	667.5	671.8	669.6	673.9	669.6
47.5°	582.1	584.2	582.1	584.2	584.2	584.2	586.5	582.1	584.2	577.9	565.1
50°	520.4	522.5	518.2	520.4	518.2	516.1	518.2	511.8	509.6	501.1	488.4
52.5°	467.0	464.9	462.8	462.8	462.8	460.6	458.5	452.1	445.8	437.1	422.2
55°	420.1	418.0	415.9	415.9	411.6	409.5	409.5	403.0	396.6	386.0	368.9
57.5°	377.5	375.4	373.2	373.2	371.0	366.8	366.8	360.4	351.9	339.1	324.1
60°	337.0	337.0	337.0	334.8	334.8	330.5	330.5	324.1	315.6	302.9	285.8
62.5°	300.6	298.5	298.5	298.5	298.5	296.4	294.2	290.0	281.5	268.8	253.8
65°	258.0	258.0	258.0	258.0	255.9	255.9	255.9	249.5	245.2	232.5	217.5
67.5°	211.1	211.1	211.1	211.1	209.0	211.1	211.1	206.9	202.6	189.8	177.0
70°	168.5	166.4	164.2	166.4	164.2	164.2	166.4	162.1	160.0	149.2	136.5
72.5°	123.6	125.9	123.6	123.6	123.6	121.5	123.6	121.5	117.2	108.8	100.2
75°	87.4	89.6	89.6	87.4	87.4	87.4	85.2	85.2	81.0	74.6	70.4
77.5°	59.8	59.8	59.8	59.8	57.6	57.6	57.6	55.5	53.4	49.0	44.8
80°	38.4	38.4	38.4	38.4	36.2	36.2	36.2	34.1	34.1	29.9	25.6
82.5°	23.5	23.5	23.5	23.5	23.5	23.5	21.4	21.4	19.2	17.0	14.9
85°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	10.6	10.6	8.5	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°	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6
2.5°	1836.1	1838.2	1838.2	1838.2	1844.6	1846.8	1840.4	1834.0	1846.8	1844.6	1848.9
5°	1814.8	1821.1	1825.5	1827.6	1834.0	1838.2	1831.9	1829.8	1840.4	1842.5	1844.6
7.5°	1789.1	1799.9	1810.5	1814.8	1823.2	1827.6	1825.5	1825.5	1838.2	1842.5	1842.5
10°	1772.1	1787.0	1799.9	1810.5	1821.1	1827.6	1827.6	1829.8	1844.6	1848.9	1853.1
12.5°	1767.9	1787.0	1804.1	1819.0	1827.6	1838.2	1840.4	1846.8	1861.8	1868.1	1868.1
15°	1757.2	1782.8	1804.1	1823.2	1836.1	1848.9	1853.1	1866.0	1883.0	1887.2	1891.5
17.5°	1738.0	1763.6	1789.1	1812.6	1829.8	1840.4	1853.1	1866.0	1887.2	1893.6	1895.9
20°	1703.9	1733.8	1759.4	1782.8	1799.9	1814.8	1827.6	1842.5	1861.8	1870.2	1872.4
22.5°	1652.8	1682.5	1708.1	1733.8	1750.8	1763.6	1776.4	1793.5	1812.6	1821.1	1821.1
25°	1590.9	1618.6	1646.2	1665.5	1682.5	1697.5	1703.9	1723.1	1742.2	1752.9	1752.9
27.5°	1512.0	1537.5	1563.1	1584.5	1595.1	1607.9	1618.6	1635.6	1650.6	1659.1	1667.6
30°	1411.8	1437.4	1460.8	1482.1	1494.9	1507.8	1518.4	1531.1	1546.1	1556.8	1558.9
32.5°	1303.0	1324.2	1347.8	1369.1	1381.9	1386.1	1396.8	1409.6	1422.4	1430.9	1433.0
35°	1183.5	1198.5	1213.4	1232.6	1245.4	1245.4	1256.0	1264.6	1275.2	1294.5	1290.1
37.5°	1042.8	1064.1	1074.8	1081.2	1089.8	1098.2	1100.4	1111.0	1123.9	1128.1	1134.5
40°	910.6	917.0	923.4	923.4	931.9	931.9	931.9	934.0	946.9	949.0	957.5
42.5°	778.4	778.4	772.0	765.6	767.8	765.6	754.9	754.9	761.2	769.9	769.9
45°	654.6	639.8	620.6	605.6	595.0	590.8	577.9	577.9	575.8	577.9	586.5
47.5°	550.2	524.6	492.6	462.8	452.1	443.6	424.4	415.9	411.6	413.8	418.0
50°	462.8	435.0	398.8	362.5	343.4	332.6	309.2	294.2	292.1	287.9	296.4
52.5°	398.8	364.6	326.2	283.6	264.4	247.4	221.8	209.0	200.5	200.5	202.6
55°	343.4	307.1	264.4	221.8	202.6	189.8	164.2	147.1	138.6	136.5	142.9
57.5°	296.4	262.2	219.6	177.0	157.8	142.9	117.2	102.4	96.0	91.8	93.9
60°	260.1	226.0	183.4	142.9	125.9	108.8	87.4	70.4	61.9	61.9	64.0
62.5°	226.0	194.0	155.6	117.2	102.4	87.4	64.0	49.0	42.6	40.5	42.6
65°	191.9	162.1	130.1	98.1	83.1	70.4	51.1	38.4	29.9	27.8	29.9
67.5°	155.6	132.2	104.5	78.9	66.1	55.5	38.4	27.8	21.4	19.2	21.4
70°	121.5	100.2	78.9	57.6	49.0	40.5	27.8	21.4	14.9	12.8	14.9
72.5°	87.4	72.5	55.5	40.5	34.1	27.8	19.2	14.9	10.6	8.5	10.6
75°	59.8	49.0	36.2	25.6	21.4	19.2	12.8	8.5	6.4	6.4	6.4
77.5°	38.4	29.9	23.5	17.0	12.8	10.6	6.4	4.2	4.2	4.2	4.2
80°	21.4	17.0	12.8	8.5	6.4	6.4	4.2	4.2	2.1	2.1	2.1
82.5°	12.8	8.5	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°	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6
2.5°	1840.4	1842.5	1836.1	1844.6	1838.2	1846.8	1846.8	1838.2	1840.4	1836.1	1844.6
5°	1836.1	1836.1	1831.9	1838.2	1829.8	1838.2	1836.1	1821.1	1825.5	1816.9	1825.5
7.5°	1836.1	1831.9	1825.5	1831.9	1821.1	1827.6	1819.0	1804.1	1799.9	1789.1	1789.1
10°	1842.5	1836.1	1827.6	1829.8	1819.0	1821.1	1808.4	1787.0	1780.6	1767.9	1763.6
12.5°	1857.4	1851.0	1838.2	1842.5	1827.6	1827.6	1810.5	1784.9	1772.1	1755.1	1750.8
15°	1878.8	1868.1	1853.1	1855.2	1840.4	1831.9	1810.5	1780.6	1763.6	1740.1	1733.8
17.5°	1883.0	1872.4	1853.1	1853.1	1834.0	1823.2	1797.8	1763.6	1742.2	1718.9	1706.0
20°	1859.5	1848.9	1827.6	1825.5	1808.4	1793.5	1765.8	1731.6	1710.2	1684.8	1674.0
22.5°	1810.5	1797.8	1778.5	1776.4	1759.4	1750.8	1721.0	1686.9	1665.5	1639.9	1631.4
25°	1738.0	1731.6	1712.4	1710.2	1695.4	1684.8	1659.1	1627.1	1607.9	1582.4	1573.8
27.5°	1652.8	1646.2	1627.1	1627.1	1610.0	1603.6	1580.2	1550.4	1535.4	1512.0	1501.2
30°	1550.4	1541.9	1531.1	1529.0	1514.1	1507.8	1486.4	1458.6	1443.8	1424.5	1420.2
32.5°	1428.8	1422.4	1416.0	1413.9	1398.9	1392.5	1377.6	1349.9	1337.1	1320.0	1313.6
35°	1288.0	1283.8	1277.4	1275.2	1268.9	1262.5	1247.5	1226.2	1219.8	1207.0	1200.6
37.5°	1126.0	1130.2	1126.0	1126.0	1119.6	1121.8	1108.9	1096.1	1089.8	1081.2	1076.9
40°	951.1	959.6	966.0	966.0	963.9	972.4	970.2	959.6	957.5	953.2	951.1
42.5°	774.1	778.4	791.1	799.8	797.6	818.9	821.0	829.5	836.0	831.6	833.9
45°	588.6	601.4	618.4	627.0	637.6	665.4	680.2	697.4	712.2	720.8	718.6
47.5°	424.4	439.2	458.5	471.2	490.5	524.6	563.0	584.2	605.6	616.2	627.0
50°	307.1	322.0	345.5	364.6	377.5	424.4	464.9	492.6	516.1	531.0	541.6
52.5°	215.4	232.5	258.0	275.1	294.2	339.1	386.0	418.0	443.6	462.8	473.4
55°	149.2	168.5	191.9	209.0	230.4	277.2	322.0	356.1	383.9	400.9	413.8
57.5°	104.5	121.5	145.0	160.0	181.2	226.0	270.9	305.0	332.6	349.8	364.6
60°	70.4	87.4	110.9	125.9	142.9	187.6	228.1	264.4	290.0	307.1	322.0
62.5°	49.0	64.0	87.4	102.4	117.2	155.6	194.0	226.0	251.6	270.9	283.6
65°	38.4	51.1	70.4	83.1	98.1	130.1	162.1	189.8	215.4	234.6	243.1
67.5°	27.8	40.5	55.5	66.1	76.8	104.5	132.2	153.5	177.0	191.9	202.6
70°	19.2	27.8	40.5	49.0	57.6	78.9	100.2	119.4	136.5	147.1	155.6
72.5°	14.9	19.2	27.8	34.1	40.5	55.5	72.5	87.4	100.2	108.8	117.2
75°	8.5	12.8	19.2	23.5	27.8	38.4	49.0	59.8	68.2	74.6	78.9
77.5°	4.2	6.4	10.6	12.8	17.0	23.5	32.0	38.4	44.8	49.0	53.4
80°	4.2	4.2	6.4	6.4	8.5	12.8	17.0	21.4	25.6	29.9	32.0
82.5°	2.1	2.1	4.2	4.2	4.2	6.4	8.5	12.8	14.9	17.0	19.2
85°	2.1	2.1	2.1	2.1	2.1	4.2	4.2	6.4	8.5	10.6	10.6
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: P252592

CATALOG NUMBER: LE_6B30D010 EC6B30509040 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6
2.5°	1838.2	1842.5	1840.4	1844.6	1838.2	1836.1	1840.4	1834.0
5°	1814.8	1816.9	1814.8	1814.8	1810.5	1806.2	1810.5	1804.1
7.5°	1778.5	1778.5	1772.1	1772.1	1763.6	1759.4	1759.4	1757.2
10°	1748.6	1742.2	1735.9	1738.0	1725.2	1721.0	1718.9	1716.6
12.5°	1733.8	1729.5	1718.9	1718.9	1706.0	1701.8	1699.6	1697.5
15°	1716.6	1708.1	1699.6	1697.5	1686.9	1682.5	1680.4	1676.1
17.5°	1686.9	1680.4	1669.8	1669.8	1659.1	1657.0	1652.8	1650.6
20°	1654.9	1646.2	1637.8	1637.8	1625.0	1625.0	1618.6	1620.8
22.5°	1610.0	1603.6	1595.1	1595.1	1584.5	1582.4	1575.9	1573.8
25°	1556.8	1548.2	1541.9	1539.6	1531.1	1526.9	1524.8	1520.5
27.5°	1486.4	1480.0	1473.6	1469.2	1458.6	1456.5	1450.1	1452.2
30°	1398.9	1394.6	1392.5	1388.2	1375.5	1371.2	1371.2	1364.9
32.5°	1303.0	1296.6	1292.2	1285.9	1275.2	1273.1	1266.8	1268.9
35°	1185.6	1177.1	1170.8	1172.9	1160.1	1158.0	1153.8	1155.9
37.5°	1064.1	1055.6	1047.1	1044.9	1034.2	1034.2	1027.9	1027.9
40°	938.2	929.8	925.5	925.5	912.8	914.9	908.5	906.4
42.5°	825.2	816.8	814.6	812.5	806.1	804.0	797.6	799.8
45°	718.6	716.5	716.5	712.2	705.9	703.8	705.9	705.9
47.5°	624.9	627.0	624.9	624.9	620.6	624.9	620.6	622.8
50°	545.9	550.2	550.2	550.2	548.0	550.2	550.2	552.4
52.5°	479.9	486.2	484.1	486.2	484.1	488.4	486.2	488.4
55°	422.2	426.5	428.6	430.8	430.8	430.8	430.8	430.8
57.5°	368.9	375.4	377.5	379.6	379.6	383.9	379.6	379.6
60°	326.2	332.6	334.8	337.0	337.0	339.1	334.8	337.0
62.5°	287.9	294.2	294.2	296.4	296.4	296.4	292.1	294.2
65°	249.5	251.6	253.8	253.8	251.6	251.6	249.5	251.6
67.5°	206.9	209.0	206.9	206.9	204.8	204.8	200.5	202.6
70°	160.0	160.0	162.1	160.0	157.8	160.0	157.8	155.6
72.5°	119.4	119.4	119.4	117.2	117.2	115.1	117.2	117.2
75°	81.0	81.0	83.1	83.1	83.1	83.1	81.0	81.0
77.5°	53.4	53.4	53.4	53.4	55.5	53.4	53.4	53.4
80°	34.1	34.1	36.2	36.2	34.1	34.1	34.1	34.1
82.5°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
85°	12.8	12.8	12.8	12.8	10.6	10.6	10.6	10.6
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)