

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: P252591

Luminaire Tested: **LE_6B30D010 EC6B30509035 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252591
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 EC6B30509035 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3190.0 lumens
Efficiency: N/A
Efficacy: 113.9 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

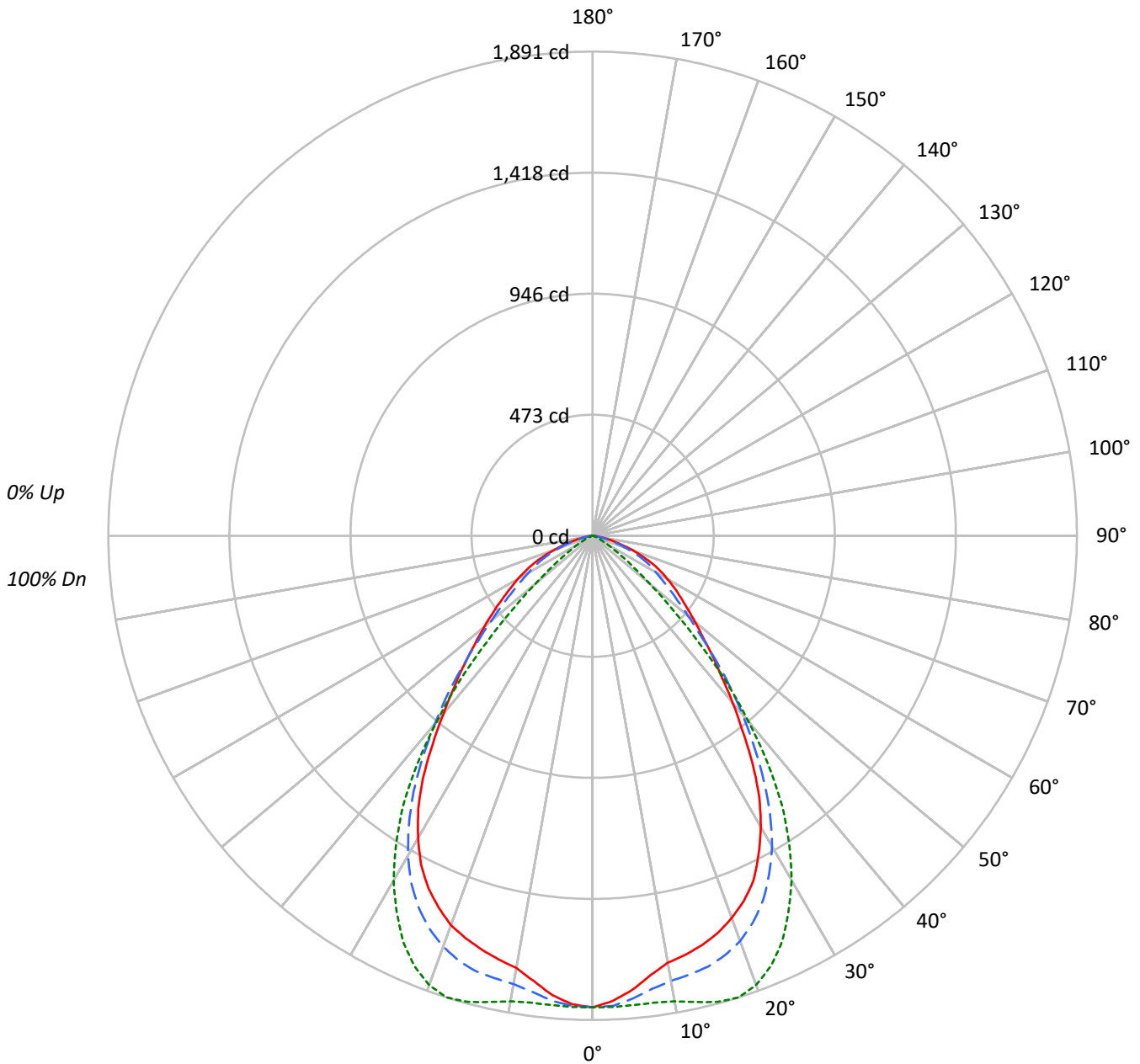
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	120160	120160	120160
5°	116572	120475	117960
10°	112143	122292	113547
15°	111742	127276	113032
20°	110279	129635	112341
25°	106977	125988	109281
30°	98973	117083	102649
35°	86820	102932	91909
40°	72348	80694	77066
45°	60894	53236	65028
50°	52727	29180	55975
55°	47715	15492	48921
60°	43894	8064	43894
65°	39766	4261	38778
70°	32084	2442	29643
75°	21981	1613	20392
80°	14427	789	12812
85°	9581	1572	7935



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.7	5.4
10°-20°	496.6	15.6
20°-30°	733.7	23.0
30°-40°	741.1	23.2
40°-50°	510.8	16.0
50°-60°	293.4	9.2
60°-70°	170.8	5.4
70°-80°	62.3	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°	1402.1	44.0
0°-40°	2143.2	67.2
0°-60°	2947.4	92.4
0°-90°	3190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3190.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1842	1842	1842	1842	1842	
5°	1780	1814	1840	1823	1801	167
15°	1654	1742	1884	1761	1674	466
25°	1486	1574	1750	1605	1518	677
35°	1090	1165	1292	1218	1154	677
45°	660	669	577	711	705	513
55°	420	368	136	383	430	378
65°	258	217	28	215	251	252
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°	1841.8	1841.8	1841.8	1841.8	1841.8	1841.8	1841.8	1841.8	1841.8	1841.8	1841.8
2.5°	1818.4	1820.5	1822.6	1820.5	1822.6	1831.1	1824.8	1829.0	1829.0	1831.1	1837.5
5°	1780.0	1780.0	1784.2	1782.1	1788.5	1797.0	1790.6	1797.0	1799.1	1803.4	1814.1
7.5°	1731.0	1731.0	1733.1	1733.1	1741.6	1750.2	1745.9	1754.5	1763.0	1771.5	1784.2
10°	1692.8	1697.0	1697.0	1699.1	1707.6	1718.2	1716.1	1726.8	1735.2	1748.0	1765.1
12.5°	1675.6	1677.8	1677.8	1682.0	1690.6	1701.2	1699.1	1709.8	1722.5	1737.4	1754.5
15°	1654.4	1658.6	1656.5	1660.8	1669.2	1679.9	1677.8	1688.5	1703.4	1718.2	1741.6
17.5°	1626.8	1628.9	1631.0	1631.0	1639.5	1648.0	1648.0	1658.6	1675.6	1692.8	1718.2
20°	1588.4	1592.6	1592.6	1594.8	1601.1	1613.9	1611.8	1622.5	1639.5	1656.5	1684.1
22.5°	1543.6	1545.8	1545.8	1547.9	1558.6	1565.0	1567.1	1575.6	1590.5	1609.6	1635.2
25°	1486.1	1488.2	1486.1	1492.5	1496.9	1509.6	1505.4	1516.0	1533.0	1547.9	1573.5
27.5°	1403.1	1407.4	1407.4	1409.5	1420.1	1430.9	1430.9	1441.5	1456.4	1467.0	1492.5
30°	1313.8	1320.1	1313.8	1324.4	1328.6	1337.1	1343.5	1349.9	1362.6	1377.6	1401.0
32.5°	1211.5	1209.4	1211.5	1215.8	1228.5	1234.9	1239.1	1245.6	1258.4	1271.1	1290.2
35°	1090.1	1094.4	1096.5	1105.0	1105.0	1115.8	1117.9	1122.1	1141.2	1149.8	1164.6
37.5°	962.4	966.6	968.8	973.0	981.5	985.9	992.2	998.6	1011.4	1026.2	1034.8
40°	849.5	849.5	851.6	855.9	862.4	864.5	870.9	879.4	887.9	900.6	909.1
42.5°	743.1	745.2	743.1	747.4	753.8	762.2	760.1	770.8	772.9	781.4	787.8
45°	660.0	660.0	655.8	660.0	660.0	668.6	666.4	670.8	668.6	672.9	668.6
47.5°	581.2	583.4	581.2	583.4	583.4	583.4	585.5	581.2	583.4	577.0	564.2
50°	519.5	521.6	517.4	519.5	517.4	515.2	517.4	511.0	508.9	500.4	487.6
52.5°	466.2	464.1	462.0	462.0	462.0	459.9	457.8	451.4	445.0	436.5	421.6
55°	419.5	417.4	415.2	415.2	410.9	408.8	408.8	402.4	396.0	385.4	368.4
57.5°	376.9	374.8	372.6	372.6	370.5	366.2	366.2	359.9	351.4	338.5	323.6
60°	336.4	336.4	336.4	334.2	334.2	330.0	330.0	323.6	315.1	302.4	285.2
62.5°	300.2	298.1	298.1	298.1	298.1	296.0	293.9	289.6	281.0	268.2	253.4
65°	257.6	257.6	257.6	257.6	255.5	255.5	255.5	249.1	244.9	232.1	217.1
67.5°	210.8	210.8	210.8	210.8	208.6	210.8	210.8	206.5	202.2	189.5	176.8
70°	168.2	166.1	164.0	166.1	164.0	164.0	166.1	161.9	159.8	149.0	136.2
72.5°	123.5	125.6	123.5	123.5	123.5	121.4	123.5	121.4	117.1	108.6	100.1
75°	87.2	89.4	89.4	87.2	87.2	87.2	85.1	85.1	80.9	74.5	70.2
77.5°	59.6	59.6	59.6	59.6	57.5	57.5	57.5	55.4	53.2	49.0	44.8
80°	38.4	38.4	38.4	38.4	36.2	36.2	36.2	34.1	34.1	29.8	25.5
82.5°	23.4	23.4	23.4	23.4	23.4	23.4	21.2	21.2	19.1	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°	1841.8	1841.8	1841.8	1841.8	1841.8	1841.8	1841.8	1841.8	1841.8	1841.8	1841.8
2.5°	1833.2	1835.4	1835.4	1835.4	1841.8	1843.9	1837.5	1831.1	1843.9	1841.8	1846.0
5°	1811.9	1818.4	1822.6	1824.8	1831.1	1835.4	1829.0	1826.9	1837.5	1839.6	1841.8
7.5°	1786.4	1797.0	1807.6	1811.9	1820.5	1824.8	1822.6	1822.6	1835.4	1839.6	1839.6
10°	1769.4	1784.2	1797.0	1807.6	1818.4	1824.8	1824.8	1826.9	1841.8	1846.0	1850.2
12.5°	1765.1	1784.2	1801.2	1816.2	1824.8	1835.4	1837.5	1843.9	1858.8	1865.1	1865.1
15°	1754.5	1780.0	1801.2	1820.5	1833.2	1846.0	1850.2	1863.0	1880.1	1884.4	1888.6
17.5°	1735.2	1760.9	1786.4	1809.8	1826.9	1837.5	1850.2	1863.0	1884.4	1890.8	1892.9
20°	1701.2	1731.0	1756.6	1780.0	1797.0	1811.9	1824.8	1839.6	1858.8	1867.2	1869.4
22.5°	1650.1	1679.9	1705.5	1731.0	1748.0	1760.9	1773.6	1790.6	1809.8	1818.4	1818.4
25°	1588.4	1616.0	1643.8	1662.9	1679.9	1694.9	1701.2	1720.4	1739.5	1750.2	1750.2
27.5°	1509.6	1535.1	1560.8	1582.0	1592.6	1605.4	1616.0	1633.1	1648.0	1656.5	1665.0
30°	1409.5	1435.1	1458.5	1479.8	1492.5	1505.4	1516.0	1528.8	1543.6	1554.2	1556.4
32.5°	1300.9	1322.2	1345.6	1366.9	1379.8	1384.0	1394.6	1407.4	1420.1	1428.6	1430.9
35°	1181.8	1196.6	1211.5	1230.6	1243.5	1243.5	1254.1	1262.6	1273.2	1292.4	1288.1
37.5°	1041.1	1062.5	1073.1	1079.5	1088.0	1096.5	1098.6	1109.2	1122.1	1126.4	1132.8
40°	909.1	915.5	922.0	922.0	930.5	930.5	930.5	932.6	945.4	947.5	956.0
42.5°	777.1	777.1	770.8	764.4	766.5	764.4	753.8	753.8	760.1	768.6	768.6
45°	653.6	638.8	619.6	604.8	594.0	589.8	577.0	577.0	574.9	577.0	585.5
47.5°	549.4	523.8	491.9	462.0	451.4	442.9	423.8	415.2	410.9	413.0	417.4
50°	462.0	434.4	398.1	362.0	342.8	332.1	308.8	293.9	291.8	287.5	296.0
52.5°	398.1	364.1	325.8	283.1	264.0	247.0	221.4	208.6	200.1	200.1	202.2
55°	342.8	306.6	264.0	221.4	202.2	189.5	164.0	146.9	138.4	136.2	142.6
57.5°	296.0	261.9	219.2	176.8	157.5	142.6	117.1	102.2	95.9	91.5	93.6
60°	259.8	225.8	183.1	142.6	125.6	108.6	87.2	70.2	61.8	61.8	63.9
62.5°	225.8	193.8	155.4	117.1	102.2	87.2	63.9	49.0	42.6	40.5	42.6
65°	191.6	161.9	129.9	98.0	83.0	70.2	51.1	38.4	29.8	27.6	29.8
67.5°	155.4	132.0	104.4	78.8	66.0	55.4	38.4	27.6	21.2	19.1	21.2
70°	121.4	100.1	78.8	57.5	49.0	40.5	27.6	21.2	14.9	12.8	14.9
72.5°	87.2	72.4	55.4	40.5	34.1	27.6	19.1	14.9	10.6	8.5	10.6
75°	59.6	49.0	36.2	25.5	21.2	19.1	12.8	8.5	6.4	6.4	6.4
77.5°	38.4	29.8	23.4	17.0	12.8	10.6	6.4	4.2	4.2	4.2	4.2
80°	21.2	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°	1841.8	1841.8	1841.8	1841.8	1841.8	1841.8	1841.8	1841.8	1841.8	1841.8	1841.8
2.5°	1837.5	1839.6	1833.2	1841.8	1835.4	1843.9	1843.9	1835.4	1837.5	1833.2	1841.8
5°	1833.2	1833.2	1829.0	1835.4	1826.9	1835.4	1833.2	1818.4	1822.6	1814.1	1822.6
7.5°	1833.2	1829.0	1822.6	1829.0	1818.4	1824.8	1816.2	1801.2	1797.0	1786.4	1786.4
10°	1839.6	1833.2	1824.8	1826.9	1816.2	1818.4	1805.5	1784.2	1777.9	1765.1	1760.9
12.5°	1854.5	1848.1	1835.4	1839.6	1824.8	1824.8	1807.6	1782.1	1769.4	1752.4	1748.0
15°	1875.9	1865.1	1850.2	1852.4	1837.5	1829.0	1807.6	1777.9	1760.9	1737.4	1731.0
17.5°	1880.1	1869.4	1850.2	1850.2	1831.1	1820.5	1794.9	1760.9	1739.5	1716.1	1703.4
20°	1856.6	1846.0	1824.8	1822.6	1805.5	1790.6	1763.0	1728.9	1707.6	1682.0	1671.4
22.5°	1807.6	1794.9	1775.8	1773.6	1756.6	1748.0	1718.2	1684.1	1662.9	1637.4	1628.9
25°	1735.2	1728.9	1709.8	1707.6	1692.8	1682.0	1656.5	1624.6	1605.4	1579.9	1571.4
27.5°	1650.1	1643.8	1624.6	1624.6	1607.5	1601.1	1577.8	1547.9	1533.0	1509.6	1499.0
30°	1547.9	1539.4	1528.8	1526.6	1511.8	1505.4	1484.0	1456.4	1441.5	1422.2	1418.0
32.5°	1426.5	1420.1	1413.8	1411.6	1396.8	1390.4	1375.5	1347.8	1335.0	1318.0	1311.6
35°	1286.0	1281.8	1275.4	1273.2	1266.9	1260.5	1245.6	1224.2	1217.9	1205.1	1198.8
37.5°	1124.2	1128.5	1124.2	1124.2	1117.9	1120.0	1107.1	1094.4	1088.0	1079.5	1075.2
40°	949.6	958.1	964.5	964.5	962.4	970.9	968.8	958.1	956.0	951.8	949.6
42.5°	772.9	777.1	789.9	798.5	796.4	817.6	819.8	828.2	834.6	830.4	832.5
45°	587.6	600.4	617.5	626.0	636.6	664.2	679.2	696.2	711.1	719.6	717.5
47.5°	423.8	438.6	457.8	470.5	489.8	523.8	562.1	583.4	604.8	615.4	626.0
50°	306.6	321.5	344.9	364.1	376.9	423.8	464.1	491.9	515.2	530.1	540.9
52.5°	215.0	232.1	257.6	274.6	293.9	338.5	385.4	417.4	442.9	462.0	472.6
55°	149.0	168.2	191.6	208.6	230.0	276.8	321.5	355.6	383.2	400.2	413.0
57.5°	104.4	121.4	144.8	159.8	181.0	225.8	270.4	304.5	332.1	349.1	364.1
60°	70.2	87.2	110.8	125.6	142.6	187.4	227.9	264.0	289.6	306.6	321.5
62.5°	49.0	63.9	87.2	102.2	117.1	155.4	193.8	225.8	251.2	270.4	283.1
65°	38.4	51.1	70.2	83.0	98.0	129.9	161.9	189.5	215.0	234.2	242.8
67.5°	27.6	40.5	55.4	66.0	76.6	104.4	132.0	153.2	176.8	191.6	202.2
70°	19.1	27.6	40.5	49.0	57.5	78.8	100.1	119.2	136.2	146.9	155.4
72.5°	14.9	19.1	27.6	34.1	40.5	55.4	72.4	87.2	100.1	108.6	117.1
75°	8.5	12.8	19.1	23.4	27.6	38.4	49.0	59.6	68.1	74.5	78.8
77.5°	4.2	6.4	10.6	12.8	17.0	23.4	32.0	38.4	44.8	49.0	53.2
80°	4.2	4.2	6.4	6.4	8.5	12.8	17.0	21.2	25.5	29.8	32.0
82.5°	2.1	2.1	4.2	4.2	4.2	6.4	8.5	12.8	14.9	17.0	19.1
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: P252591

CATALOG NUMBER: LE_6B30D010 EC6B30509035 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1841.8	1841.8	1841.8	1841.8	1841.8	1841.8	1841.8	1841.8
2.5°	1835.4	1839.6	1837.5	1841.8	1835.4	1833.2	1837.5	1831.1
5°	1811.9	1814.1	1811.9	1811.9	1807.6	1803.4	1807.6	1801.2
7.5°	1775.8	1775.8	1769.4	1769.4	1760.9	1756.6	1756.6	1754.5
10°	1745.9	1739.5	1733.1	1735.2	1722.5	1718.2	1716.1	1714.0
12.5°	1731.0	1726.8	1716.1	1716.1	1703.4	1699.1	1697.0	1694.9
15°	1714.0	1705.5	1697.0	1694.9	1684.1	1679.9	1677.8	1673.5
17.5°	1684.1	1677.8	1667.1	1667.1	1656.5	1654.4	1650.1	1648.0
20°	1652.2	1643.8	1635.2	1635.2	1622.5	1622.5	1616.0	1618.1
22.5°	1607.5	1601.1	1592.6	1592.6	1582.0	1579.9	1573.5	1571.4
25°	1554.2	1545.8	1539.4	1537.2	1528.8	1524.5	1522.4	1518.1
27.5°	1484.0	1477.6	1471.2	1467.0	1456.4	1454.2	1447.9	1450.0
30°	1396.8	1392.5	1390.4	1386.1	1373.4	1369.1	1369.1	1362.6
32.5°	1300.9	1294.5	1290.2	1283.9	1273.2	1271.1	1264.8	1266.9
35°	1183.9	1175.2	1168.9	1171.0	1158.2	1156.1	1151.9	1154.0
37.5°	1062.5	1054.0	1045.4	1043.2	1032.6	1032.6	1026.2	1026.2
40°	936.9	928.4	924.1	924.1	911.2	913.4	907.0	904.9
42.5°	824.0	815.5	813.4	811.2	804.9	802.8	796.4	798.5
45°	717.5	715.4	715.4	711.1	704.8	702.6	704.8	704.8
47.5°	623.9	626.0	623.9	623.9	619.6	623.9	619.6	621.8
50°	545.1	549.4	549.4	549.4	547.2	549.4	549.4	551.5
52.5°	479.1	485.5	483.4	485.5	483.4	487.6	485.5	487.6
55°	421.6	425.9	428.0	430.1	430.1	430.1	430.1	430.1
57.5°	368.4	374.8	376.9	379.0	379.0	383.2	379.0	379.0
60°	325.8	332.1	334.2	336.4	336.4	338.5	334.2	336.4
62.5°	287.5	293.9	293.9	296.0	296.0	296.0	291.8	293.9
65°	249.1	251.2	253.4	253.4	251.2	251.2	249.1	251.2
67.5°	206.5	208.6	206.5	206.5	204.4	204.4	200.1	202.2
70°	159.8	159.8	161.9	159.8	157.5	159.8	157.5	155.4
72.5°	119.2	119.2	119.2	117.1	117.1	115.0	117.1	117.1
75°	80.9	80.9	83.0	83.0	83.0	83.0	80.9	80.9
77.5°	53.2	53.2	53.2	53.2	55.4	53.2	53.2	53.2
80°	34.1	34.1	36.2	36.2	34.1	34.1	34.1	34.1
82.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
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)