

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: P212816

Luminaire Tested: **LE_6B30D010 EC6B30509030 6LBSWL11**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29203)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B30D010 EC6B30509030 6LBSWL1
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3014.3 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

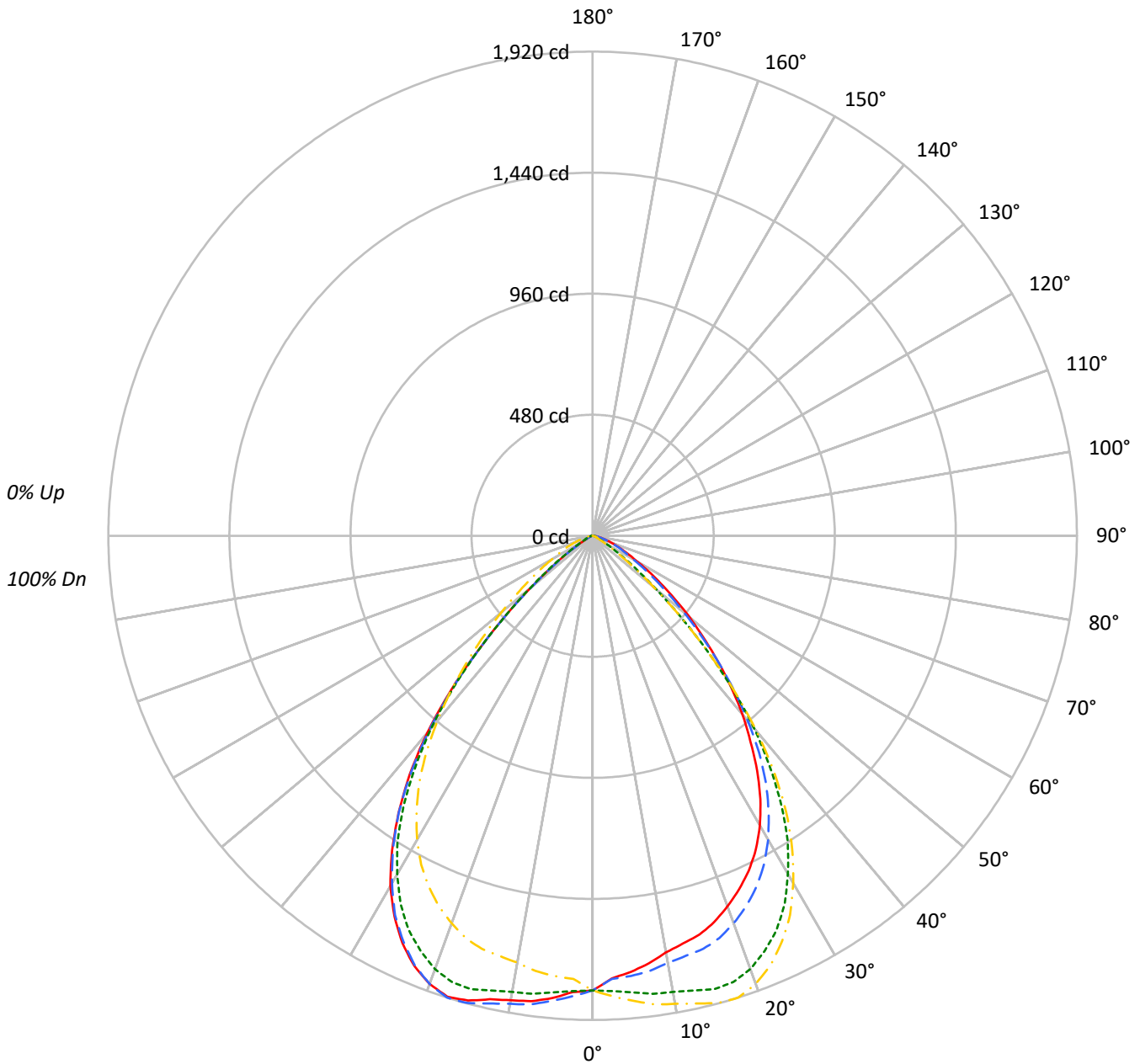
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	100	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82
3	98	91	84	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	98835	98835	98835	98835
5°	95520	100022	101287	100022
10°	93352	102230	104095	102230
15°	92912	105653	108281	105653
20°	91218	106648	110318	106648
25°	88614	104353	107909	104353
30°	83969	98047	101503	98047
35°	76125	87368	89751	87368
40°	66088	71198	72994	71198
45°	54184	49145	49462	49145
50°	42600	27564	27027	27564
55°	31492	13648	12234	13648
60°	22323	5986	4375	5986
65°	16604	3814	2724	3814
70°	12101	3029	2020	3029
75°	8896	2224	1313	2224
80°	5967	1957	663	1957
85°	3900	1321	1321	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.6	5.7
10°-20°	511.2	17.0
20°-30°	762.8	25.3
30°-40°	783.7	26.0
40°-50°	507.5	16.8
50°-60°	188.7	6.3
60°-70°	61.9	2.1
70°-80°	21.8	0.7
80°-90°	3.9	0.1
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°	1446.6	48.0
0°-40°	2230.3	74.0
0°-60°	2926.6	97.1
0°-90°	3014.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3014.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1803	1803	1803	1803	1803	
5°	1736	1818	1841	1818	1736	164
15°	1637	1862	1908	1862	1637	460
25°	1465	1725	1784	1725	1465	671
35°	1138	1306	1341	1306	1138	706
45°	699	634	638	634	699	540
55°	330	143	128	143	330	300
65°	128	29	21	29	128	130
75°	42	10	6	10	42	46
85°	6	2	2	2	6	8
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°	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9
2.5°	1756.8	1781.9	1765.1	1775.6	1758.8	1758.8	1792.4	1773.5	1788.2	1773.5	1758.8
5°	1735.8	1767.2	1746.2	1756.8	1742.0	1744.1	1775.6	1760.9	1775.6	1765.1	1752.5
7.5°	1710.5	1742.0	1723.1	1733.6	1718.9	1723.1	1756.8	1742.0	1758.8	1748.2	1739.9
10°	1677.0	1710.5	1693.8	1704.2	1691.6	1693.8	1727.4	1716.9	1731.5	1725.2	1718.9
12.5°	1656.0	1687.5	1668.5	1679.0	1670.6	1674.9	1706.4	1698.0	1716.9	1710.5	1706.4
15°	1637.1	1666.5	1649.6	1660.1	1653.9	1656.0	1689.5	1681.1	1702.1	1698.0	1695.9
17.5°	1605.6	1637.1	1618.1	1630.8	1624.5	1626.6	1660.1	1653.9	1674.9	1674.9	1672.8
20°	1563.6	1595.1	1580.4	1588.8	1584.6	1588.8	1618.1	1614.0	1635.0	1635.0	1635.0
22.5°	1517.5	1548.9	1532.1	1540.5	1536.4	1542.6	1569.9	1569.9	1586.8	1588.8	1590.9
25°	1465.0	1496.5	1479.6	1490.1	1486.0	1490.1	1515.4	1517.5	1532.1	1532.1	1536.4
27.5°	1402.0	1433.5	1416.8	1425.1	1423.0	1425.1	1452.4	1456.6	1465.0	1467.1	1471.2
30°	1326.5	1355.9	1339.0	1347.4	1347.4	1347.4	1374.8	1376.9	1385.2	1387.4	1391.5
32.5°	1238.2	1263.5	1250.9	1259.2	1257.2	1261.4	1280.2	1288.6	1299.1	1297.1	1299.1
35°	1137.5	1164.9	1152.2	1158.5	1160.6	1167.0	1179.5	1190.0	1192.1	1194.2	1198.4
37.5°	1028.4	1055.8	1043.1	1049.4	1051.5	1064.1	1068.2	1078.8	1083.0	1083.0	1083.0
40°	923.5	936.1	925.6	931.9	934.0	944.5	948.6	957.0	961.2	959.1	957.0
42.5°	810.1	820.6	810.1	816.5	816.5	824.9	826.9	837.4	837.4	833.2	826.9
45°	698.9	709.4	698.9	703.1	703.1	711.5	711.5	711.5	715.8	709.4	698.9
47.5°	594.0	604.5	594.0	598.1	596.1	602.4	600.2	602.4	596.1	591.9	579.2
50°	499.5	503.8	499.5	497.4	499.5	503.8	501.6	501.6	493.2	486.9	472.2
52.5°	407.1	413.5	407.1	407.1	407.1	411.4	411.4	409.2	400.9	392.5	377.8
55°	329.5	333.8	331.6	329.5	329.5	333.8	329.5	329.5	321.1	314.9	300.1
57.5°	262.4	264.5	262.4	262.4	262.4	264.5	264.5	260.2	254.0	247.6	237.1
60°	203.6	205.6	205.6	203.6	203.6	207.8	207.8	205.6	199.4	195.2	184.8
62.5°	161.6	161.6	161.6	161.6	161.6	163.8	163.8	163.8	159.5	155.2	146.9
65°	128.0	130.1	128.0	128.0	130.1	132.2	130.1	132.2	128.0	125.9	119.6
67.5°	98.6	100.8	98.6	100.8	100.8	102.9	100.8	102.9	98.6	96.5	92.4
70°	75.5	75.5	75.5	75.5	75.5	77.6	75.5	77.6	75.5	73.5	69.2
72.5°	56.6	56.6	58.8	58.8	56.6	58.8	56.6	56.6	56.6	54.6	52.5
75°	42.0	42.0	44.1	42.0	42.0	42.0	42.0	42.0	39.9	39.9	37.8
77.5°	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	27.2	27.2	25.1
80°	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	16.8	16.8
82.5°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	10.5	10.5
85°	6.2	6.2	6.2	8.4	6.2	6.2	6.2	6.2	6.2	6.2	6.2
87.5°	2.1	2.1	2.1	4.2	2.1	2.1	4.2	4.2	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9
2.5°	1775.6	1781.9	1781.9	1775.6	1790.2	1777.8	1802.9	1779.8	1786.1	1807.1	1805.0
5°	1769.2	1777.8	1779.8	1775.6	1794.5	1784.0	1809.1	1786.1	1796.6	1817.6	1817.6
7.5°	1760.9	1771.4	1775.6	1779.8	1796.6	1786.1	1815.5	1792.4	1807.1	1832.2	1830.1
10°	1742.0	1756.8	1765.1	1771.4	1788.2	1781.9	1813.4	1794.5	1807.1	1836.5	1834.4
12.5°	1731.5	1748.2	1760.9	1771.4	1790.2	1786.1	1817.6	1800.8	1817.6	1847.0	1847.0
15°	1723.1	1742.0	1756.8	1775.6	1794.5	1790.2	1823.9	1809.1	1826.0	1861.6	1859.5
17.5°	1702.1	1725.2	1739.9	1760.9	1779.8	1777.8	1813.4	1802.9	1821.8	1855.4	1857.5
20°	1666.5	1687.5	1704.2	1729.4	1750.4	1746.2	1784.0	1773.5	1792.4	1828.1	1830.1
22.5°	1620.2	1641.2	1658.0	1685.4	1704.2	1702.1	1739.9	1729.4	1748.2	1781.9	1784.0
25°	1565.8	1584.6	1601.4	1626.6	1647.6	1647.6	1681.1	1670.6	1691.6	1725.2	1725.2
27.5°	1498.5	1515.4	1530.0	1559.4	1576.2	1576.2	1607.8	1597.2	1618.1	1647.6	1645.5
30°	1416.8	1431.4	1444.0	1469.1	1483.9	1486.0	1513.2	1502.8	1523.8	1548.9	1548.9
32.5°	1318.0	1332.8	1341.1	1372.6	1383.1	1381.0	1402.0	1391.5	1412.5	1439.8	1433.5
35°	1213.1	1219.4	1225.8	1257.2	1261.4	1253.0	1274.0	1263.5	1278.1	1305.5	1301.2
37.5°	1093.5	1095.6	1095.6	1122.9	1125.0	1118.6	1131.2	1118.6	1129.1	1154.4	1152.2
40°	961.2	959.1	957.0	978.0	976.0	963.4	971.8	961.2	976.0	994.9	984.4
42.5°	826.9	820.6	812.2	822.8	814.4	803.9	808.0	791.2	801.8	816.5	803.9
45°	694.8	682.1	665.4	667.4	656.9	644.4	638.0	621.2	619.1	633.9	623.4
47.5°	570.9	545.8	531.0	522.6	505.9	495.4	482.8	463.9	455.5	463.9	453.4
50°	459.6	434.5	415.6	396.6	379.9	367.2	346.2	333.8	321.1	323.2	314.9
52.5°	363.1	346.2	314.9	300.1	283.4	268.6	249.8	235.1	220.4	220.4	212.0
55°	287.5	264.5	243.5	222.5	205.6	193.1	174.2	159.5	144.9	142.8	134.4
57.5°	222.5	205.6	182.6	161.6	151.1	138.5	119.6	102.9	94.5	88.1	81.9
60°	172.1	155.2	136.4	119.6	107.0	98.6	79.8	67.1	58.8	54.6	48.2
62.5°	138.5	123.9	107.0	90.2	81.9	73.5	58.8	48.2	39.9	35.6	31.5
65°	111.2	98.6	86.0	73.5	67.1	58.8	48.2	39.9	33.6	29.4	25.1
67.5°	86.0	77.6	67.1	58.8	52.5	46.1	37.8	31.5	27.2	23.1	21.0
70°	65.1	58.8	52.5	44.1	39.9	35.6	29.4	23.1	21.0	18.9	16.8
72.5°	50.4	44.1	37.8	33.6	29.4	27.2	23.1	18.9	16.8	14.8	12.6
75°	33.6	31.5	27.2	23.1	21.0	18.9	16.8	14.8	12.6	10.5	10.5
77.5°	23.1	21.0	18.9	16.8	14.8	14.8	12.6	10.5	8.4	8.4	6.2
80°	14.8	12.6	12.6	10.5	10.5	10.5	8.4	6.2	6.2	6.2	4.2
82.5°	10.5	8.4	8.4	6.2	6.2	6.2	6.2	4.2	4.2	4.2	2.1
85°	6.2	4.2	4.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	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°	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9
2.5°	1788.2	1807.1	1807.1	1823.9	1826.0	1821.8	1802.9	1802.9	1828.1	1842.8	1817.6
5°	1805.0	1823.9	1823.9	1840.6	1849.0	1842.8	1823.9	1826.0	1851.1	1868.0	1842.8
7.5°	1819.6	1838.5	1842.8	1861.6	1868.0	1861.6	1842.8	1847.0	1874.2	1888.9	1863.8
10°	1826.0	1844.9	1847.0	1868.0	1876.4	1868.0	1853.2	1855.4	1884.8	1895.2	1872.1
12.5°	1840.6	1859.5	1859.5	1882.6	1891.0	1884.8	1865.9	1870.0	1899.4	1909.9	1886.9
15°	1855.4	1874.2	1874.2	1899.4	1909.9	1901.5	1886.9	1888.9	1918.4	1928.8	1909.9
17.5°	1855.4	1872.1	1872.1	1899.4	1909.9	1903.6	1886.9	1888.9	1920.4	1928.8	1909.9
20°	1828.1	1847.0	1842.8	1870.0	1880.5	1874.2	1859.5	1859.5	1891.0	1899.4	1880.5
22.5°	1784.0	1800.8	1796.6	1821.8	1834.4	1826.0	1813.4	1811.2	1842.8	1851.1	1832.2
25°	1723.1	1739.9	1735.8	1760.9	1773.5	1763.0	1748.2	1750.4	1775.6	1788.2	1771.4
27.5°	1651.8	1662.2	1656.0	1681.1	1693.8	1683.2	1668.5	1670.6	1695.9	1704.2	1691.6
30°	1555.2	1563.6	1557.4	1578.2	1586.8	1580.4	1567.9	1567.9	1590.9	1601.4	1588.8
32.5°	1439.8	1446.1	1439.8	1456.6	1473.4	1460.8	1448.1	1448.1	1473.4	1481.8	1467.1
35°	1305.5	1311.8	1307.5	1324.4	1337.0	1320.1	1309.6	1305.5	1339.0	1334.9	1326.5
37.5°	1156.5	1160.6	1148.0	1177.4	1183.8	1164.9	1156.5	1152.2	1181.6	1179.5	1171.1
40°	988.5	992.8	984.4	1005.4	1007.4	992.8	986.5	980.1	1009.5	1007.4	1001.1
42.5°	810.1	812.2	801.8	818.5	822.8	808.0	806.0	797.5	824.9	820.6	818.5
45°	625.5	625.5	617.0	629.6	633.9	621.2	617.0	615.0	633.9	633.9	629.6
47.5°	453.4	447.0	436.5	455.5	457.5	449.1	447.0	440.8	459.6	459.6	455.5
50°	310.6	308.5	306.4	310.6	312.8	302.2	308.5	302.2	312.8	312.8	312.8
52.5°	207.8	205.6	201.5	205.6	205.6	199.4	199.4	197.2	205.6	205.6	201.5
55°	130.1	128.0	125.9	128.0	128.0	121.8	125.9	121.8	125.9	125.9	123.9
57.5°	79.8	75.5	75.5	73.5	73.5	69.2	71.4	71.4	71.4	71.4	71.4
60°	46.1	44.1	42.0	42.0	42.0	39.9	39.9	39.9	39.9	39.9	39.9
62.5°	29.4	29.4	27.2	27.2	27.2	27.2	27.2	25.1	27.2	27.2	27.2
65°	25.1	23.1	23.1	23.1	23.1	21.0	21.0	21.0	21.0	21.0	21.0
67.5°	21.0	18.9	18.9	18.9	18.9	16.8	16.8	16.8	16.8	16.8	16.8
70°	16.8	14.8	14.8	14.8	14.8	14.8	12.6	14.8	14.8	12.6	12.6
72.5°	12.6	12.6	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
75°	8.4	8.4	8.4	8.4	8.4	6.2	6.2	6.2	6.2	6.2	6.2
77.5°	6.2	6.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
80°	4.2	4.2	4.2	4.2	4.2	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	2.1	2.1	2.1	2.1	0.0	2.1	0.0	2.1	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



TEST NUMBER: P212816

CATALOG NUMBER: LE_6B30D010 EC6B30509030 6LBSWL11

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9
2.5°	1847.0	1826.0	1815.5	1836.5	1844.9	1834.4	1826.0	1811.2	1826.0	1834.4	1844.9
5°	1872.1	1853.2	1844.9	1859.5	1872.1	1861.6	1855.4	1840.6	1855.4	1861.6	1872.1
7.5°	1895.2	1876.4	1865.9	1880.5	1895.2	1880.5	1874.2	1861.6	1874.2	1880.5	1895.2
10°	1903.6	1882.6	1874.2	1886.9	1901.5	1886.9	1878.4	1870.0	1878.4	1886.9	1901.5
12.5°	1918.4	1897.4	1886.9	1897.4	1912.0	1897.4	1888.9	1882.6	1888.9	1897.4	1912.0
15°	1939.2	1920.4	1907.9	1918.4	1937.2	1920.4	1909.9	1907.9	1909.9	1920.4	1937.2
17.5°	1939.2	1924.6	1912.0	1920.4	1939.2	1926.8	1912.0	1916.2	1912.0	1926.8	1939.2
20°	1912.0	1897.4	1886.9	1886.9	1914.1	1897.4	1884.8	1891.0	1884.8	1897.4	1914.1
22.5°	1863.8	1851.1	1840.6	1838.5	1865.9	1851.1	1834.4	1847.0	1834.4	1851.1	1865.9
25°	1800.8	1788.2	1779.8	1775.6	1802.9	1786.1	1771.4	1784.0	1771.4	1786.1	1802.9
27.5°	1718.9	1708.4	1700.0	1693.8	1718.9	1704.2	1689.5	1702.1	1689.5	1704.2	1718.9
30°	1614.0	1607.8	1599.2	1590.9	1616.1	1601.4	1586.8	1603.5	1586.8	1601.4	1616.1
32.5°	1492.2	1488.0	1477.6	1469.1	1494.4	1477.6	1467.1	1479.6	1467.1	1477.6	1494.4
35°	1351.6	1345.4	1339.0	1324.4	1351.6	1337.0	1337.0	1341.1	1337.0	1337.0	1351.6
37.5°	1194.2	1190.0	1181.6	1169.0	1192.1	1181.6	1177.4	1190.0	1177.4	1181.6	1192.1
40°	1017.9	1015.9	1009.5	994.9	1020.0	1009.5	1003.2	1020.0	1003.2	1009.5	1020.0
42.5°	833.2	829.0	822.8	820.6	833.2	824.9	831.1	831.1	831.1	824.9	833.2
45°	642.2	638.0	633.9	625.5	640.1	636.0	633.9	638.0	633.9	636.0	640.1
47.5°	465.9	461.8	457.5	451.2	465.9	459.6	459.6	463.9	459.6	459.6	465.9
50°	312.8	314.9	312.8	308.5	312.8	310.6	312.8	316.9	312.8	310.6	312.8
52.5°	207.8	207.8	203.6	201.5	205.6	203.6	209.9	205.6	209.9	203.6	205.6
55°	125.9	128.0	125.9	123.9	125.9	123.9	130.1	128.0	130.1	123.9	125.9
57.5°	71.4	71.4	73.5	71.4	75.5	73.5	73.5	73.5	73.5	73.5	75.5
60°	39.9	39.9	39.9	39.9	39.9	39.9	42.0	39.9	42.0	39.9	39.9
62.5°	27.2	27.2	27.2	25.1	27.2	25.1	27.2	27.2	27.2	25.1	27.2
65°	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
67.5°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
70°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
72.5°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
75°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
77.5°	4.2	4.2	4.2	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	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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



TEST NUMBER: P212816

CATALOG NUMBER: LE_6B30D010 EC6B30509030 6LBSWL11

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9
2.5°	1836.5	1815.5	1826.0	1847.0	1817.6	1842.8	1828.1	1802.9	1802.9	1821.8	1826.0
5°	1859.5	1844.9	1853.2	1872.1	1842.8	1868.0	1851.1	1826.0	1823.9	1842.8	1849.0
7.5°	1880.5	1865.9	1876.4	1895.2	1863.8	1888.9	1874.2	1847.0	1842.8	1861.6	1868.0
10°	1886.9	1874.2	1882.6	1903.6	1872.1	1895.2	1884.8	1855.4	1853.2	1868.0	1876.4
12.5°	1897.4	1886.9	1897.4	1918.4	1886.9	1909.9	1899.4	1870.0	1865.9	1884.8	1891.0
15°	1918.4	1907.9	1920.4	1939.2	1909.9	1928.8	1918.4	1888.9	1886.9	1901.5	1909.9
17.5°	1920.4	1912.0	1924.6	1939.2	1909.9	1928.8	1920.4	1888.9	1886.9	1903.6	1909.9
20°	1886.9	1886.9	1897.4	1912.0	1880.5	1899.4	1891.0	1859.5	1859.5	1874.2	1880.5
22.5°	1838.5	1840.6	1851.1	1863.8	1832.2	1851.1	1842.8	1811.2	1813.4	1826.0	1834.4
25°	1775.6	1779.8	1788.2	1800.8	1771.4	1788.2	1775.6	1750.4	1748.2	1763.0	1773.5
27.5°	1693.8	1700.0	1708.4	1718.9	1691.6	1704.2	1695.9	1670.6	1668.5	1683.2	1693.8
30°	1590.9	1599.2	1607.8	1614.0	1588.8	1601.4	1590.9	1567.9	1567.9	1580.4	1586.8
32.5°	1469.1	1477.6	1488.0	1492.2	1467.1	1481.8	1473.4	1448.1	1448.1	1460.8	1473.4
35°	1324.4	1339.0	1345.4	1351.6	1326.5	1334.9	1339.0	1305.5	1309.6	1320.1	1337.0
37.5°	1169.0	1181.6	1190.0	1194.2	1171.1	1179.5	1181.6	1152.2	1156.5	1164.9	1183.8
40°	994.9	1009.5	1015.9	1017.9	1001.1	1007.4	1009.5	980.1	986.5	992.8	1007.4
42.5°	820.6	822.8	829.0	833.2	818.5	820.6	824.9	797.5	806.0	808.0	822.8
45°	625.5	633.9	638.0	642.2	629.6	633.9	633.9	615.0	617.0	621.2	633.9
47.5°	451.2	457.5	461.8	465.9	455.5	459.6	459.6	440.8	447.0	449.1	457.5
50°	308.5	312.8	314.9	312.8	312.8	312.8	312.8	302.2	308.5	302.2	312.8
52.5°	201.5	203.6	207.8	207.8	201.5	205.6	205.6	197.2	199.4	199.4	205.6
55°	123.9	125.9	128.0	125.9	123.9	125.9	125.9	121.8	125.9	121.8	128.0
57.5°	71.4	73.5	71.4	71.4	71.4	71.4	71.4	71.4	71.4	69.2	73.5
60°	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	42.0
62.5°	25.1	27.2	27.2	27.2	27.2	27.2	27.2	25.1	27.2	27.2	27.2
65°	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	23.1
67.5°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	18.9
70°	12.6	12.6	12.6	12.6	12.6	12.6	14.8	14.8	12.6	14.8	14.8
72.5°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
75°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	8.4
77.5°	4.2	4.2	4.2	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	2.1	2.1	4.2
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°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	2.1	0.0	2.1
87.5°	0.0	0.0	0.0	0.0	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



TEST NUMBER: P212816

CATALOG NUMBER: LE_6B30D010 EC6B30509030 6LBSWL11

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9
2.5°	1823.9	1807.1	1807.1	1788.2	1805.0	1807.1	1786.1	1779.8	1802.9	1777.8	1790.2
5°	1840.6	1823.9	1823.9	1805.0	1817.6	1817.6	1796.6	1786.1	1809.1	1784.0	1794.5
7.5°	1861.6	1842.8	1838.5	1819.6	1830.1	1832.2	1807.1	1792.4	1815.5	1786.1	1796.6
10°	1868.0	1847.0	1844.9	1826.0	1834.4	1836.5	1807.1	1794.5	1813.4	1781.9	1788.2
12.5°	1882.6	1859.5	1859.5	1840.6	1847.0	1847.0	1817.6	1800.8	1817.6	1786.1	1790.2
15°	1899.4	1874.2	1874.2	1855.4	1859.5	1861.6	1826.0	1809.1	1823.9	1790.2	1794.5
17.5°	1899.4	1872.1	1872.1	1855.4	1857.5	1855.4	1821.8	1802.9	1813.4	1777.8	1779.8
20°	1870.0	1842.8	1847.0	1828.1	1830.1	1828.1	1792.4	1773.5	1784.0	1746.2	1750.4
22.5°	1821.8	1796.6	1800.8	1784.0	1784.0	1781.9	1748.2	1729.4	1739.9	1702.1	1704.2
25°	1760.9	1735.8	1739.9	1723.1	1725.2	1725.2	1691.6	1670.6	1681.1	1647.6	1647.6
27.5°	1681.1	1656.0	1662.2	1651.8	1645.5	1647.6	1618.1	1597.2	1607.8	1576.2	1576.2
30°	1578.2	1557.4	1563.6	1555.2	1548.9	1548.9	1523.8	1502.8	1513.2	1486.0	1483.9
32.5°	1456.6	1439.8	1446.1	1439.8	1433.5	1439.8	1412.5	1391.5	1402.0	1381.0	1383.1
35°	1324.4	1307.5	1311.8	1305.5	1301.2	1305.5	1278.1	1263.5	1274.0	1253.0	1261.4
37.5°	1177.4	1148.0	1160.6	1156.5	1152.2	1154.4	1129.1	1118.6	1131.2	1118.6	1125.0
40°	1005.4	984.4	992.8	988.5	984.4	994.9	976.0	961.2	971.8	963.4	976.0
42.5°	818.5	801.8	812.2	810.1	803.9	816.5	801.8	791.2	808.0	803.9	814.4
45°	629.6	617.0	625.5	625.5	623.4	633.9	619.1	621.2	638.0	644.4	656.9
47.5°	455.5	436.5	447.0	453.4	453.4	463.9	455.5	463.9	482.8	495.4	505.9
50°	310.6	306.4	308.5	310.6	314.9	323.2	321.1	333.8	346.2	367.2	379.9
52.5°	205.6	201.5	205.6	207.8	212.0	220.4	220.4	235.1	249.8	268.6	283.4
55°	128.0	125.9	128.0	130.1	134.4	142.8	144.9	159.5	174.2	193.1	205.6
57.5°	73.5	75.5	75.5	79.8	81.9	88.1	94.5	102.9	119.6	138.5	151.1
60°	42.0	42.0	44.1	46.1	48.2	54.6	58.8	67.1	79.8	98.6	107.0
62.5°	27.2	27.2	29.4	29.4	31.5	35.6	39.9	48.2	58.8	73.5	81.9
65°	23.1	23.1	23.1	25.1	25.1	29.4	33.6	39.9	48.2	58.8	67.1
67.5°	18.9	18.9	18.9	21.0	21.0	23.1	27.2	31.5	37.8	46.1	52.5
70°	14.8	14.8	14.8	16.8	16.8	18.9	21.0	23.1	29.4	35.6	39.9
72.5°	10.5	10.5	12.6	12.6	12.6	14.8	16.8	18.9	23.1	27.2	29.4
75°	8.4	8.4	8.4	8.4	10.5	10.5	12.6	14.8	16.8	18.9	21.0
77.5°	4.2	4.2	6.2	6.2	6.2	8.4	8.4	10.5	12.6	14.8	14.8
80°	4.2	4.2	4.2	4.2	4.2	6.2	6.2	6.2	8.4	10.5	10.5
82.5°	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2	6.2	6.2	6.2
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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: P212816

CATALOG NUMBER: LE_6B30D010 EC6B30509030 6LBSWL11

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9	1802.9
2.5°	1775.6	1781.9	1781.9	1775.6	1758.8	1773.5	1788.2	1773.5	1792.4	1758.8	1758.8
5°	1775.6	1779.8	1777.8	1769.2	1752.5	1765.1	1775.6	1760.9	1775.6	1744.1	1742.0
7.5°	1779.8	1775.6	1771.4	1760.9	1739.9	1748.2	1758.8	1742.0	1756.8	1723.1	1718.9
10°	1771.4	1765.1	1756.8	1742.0	1718.9	1725.2	1731.5	1716.9	1727.4	1693.8	1691.6
12.5°	1771.4	1760.9	1748.2	1731.5	1706.4	1710.5	1716.9	1698.0	1706.4	1674.9	1670.6
15°	1775.6	1756.8	1742.0	1723.1	1695.9	1698.0	1702.1	1681.1	1689.5	1656.0	1653.9
17.5°	1760.9	1739.9	1725.2	1702.1	1672.8	1674.9	1674.9	1653.9	1660.1	1626.6	1624.5
20°	1729.4	1704.2	1687.5	1666.5	1635.0	1635.0	1635.0	1614.0	1618.1	1588.8	1584.6
22.5°	1685.4	1658.0	1641.2	1620.2	1590.9	1588.8	1586.8	1569.9	1569.9	1542.6	1536.4
25°	1626.6	1601.4	1584.6	1565.8	1536.4	1532.1	1532.1	1517.5	1515.4	1490.1	1486.0
27.5°	1559.4	1530.0	1515.4	1498.5	1471.2	1467.1	1465.0	1456.6	1452.4	1425.1	1423.0
30°	1469.1	1444.0	1431.4	1416.8	1391.5	1387.4	1385.2	1376.9	1374.8	1347.4	1347.4
32.5°	1372.6	1341.1	1332.8	1318.0	1299.1	1297.1	1299.1	1288.6	1280.2	1261.4	1257.2
35°	1257.2	1225.8	1219.4	1213.1	1198.4	1194.2	1192.1	1190.0	1179.5	1167.0	1160.6
37.5°	1122.9	1095.6	1095.6	1093.5	1083.0	1083.0	1083.0	1078.8	1068.2	1064.1	1051.5
40°	978.0	957.0	959.1	961.2	957.0	959.1	961.2	957.0	948.6	944.5	934.0
42.5°	822.8	812.2	820.6	826.9	826.9	833.2	837.4	837.4	826.9	824.9	816.5
45°	667.4	665.4	682.1	694.8	698.9	709.4	715.8	711.5	711.5	711.5	703.1
47.5°	522.6	531.0	545.8	570.9	579.2	591.9	596.1	602.4	600.2	602.4	596.1
50°	396.6	415.6	434.5	459.6	472.2	486.9	493.2	501.6	501.6	503.8	499.5
52.5°	300.1	314.9	346.2	363.1	377.8	392.5	400.9	409.2	411.4	411.4	407.1
55°	222.5	243.5	264.5	287.5	300.1	314.9	321.1	329.5	329.5	333.8	329.5
57.5°	161.6	182.6	205.6	222.5	237.1	247.6	254.0	260.2	264.5	264.5	262.4
60°	119.6	136.4	155.2	172.1	184.8	195.2	199.4	205.6	207.8	207.8	203.6
62.5°	90.2	107.0	123.9	138.5	146.9	155.2	159.5	163.8	163.8	163.8	161.6
65°	73.5	86.0	98.6	111.2	119.6	125.9	128.0	132.2	130.1	132.2	130.1
67.5°	58.8	67.1	77.6	86.0	92.4	96.5	98.6	102.9	100.8	102.9	100.8
70°	44.1	52.5	58.8	65.1	69.2	73.5	75.5	77.6	75.5	77.6	75.5
72.5°	33.6	37.8	44.1	50.4	52.5	54.6	56.6	56.6	56.6	58.8	56.6
75°	23.1	27.2	31.5	33.6	37.8	39.9	39.9	42.0	42.0	42.0	42.0
77.5°	16.8	18.9	21.0	23.1	25.1	27.2	27.2	29.4	29.4	29.4	29.4
80°	10.5	12.6	12.6	14.8	16.8	16.8	18.9	18.9	18.9	18.9	18.9
82.5°	6.2	8.4	8.4	10.5	10.5	10.5	12.6	12.6	12.6	12.6	12.6
85°	4.2	4.2	4.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	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: P212816

CATALOG NUMBER: LE_6B30D010 EC6B30509030 6LBSWL11

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1802.9	1802.9	1802.9	1802.9
2.5°	1775.6	1765.1	1781.9	1756.8
5°	1756.8	1746.2	1767.2	1735.8
7.5°	1733.6	1723.1	1742.0	1710.5
10°	1704.2	1693.8	1710.5	1677.0
12.5°	1679.0	1668.5	1687.5	1656.0
15°	1660.1	1649.6	1666.5	1637.1
17.5°	1630.8	1618.1	1637.1	1605.6
20°	1588.8	1580.4	1595.1	1563.6
22.5°	1540.5	1532.1	1548.9	1517.5
25°	1490.1	1479.6	1496.5	1465.0
27.5°	1425.1	1416.8	1433.5	1402.0
30°	1347.4	1339.0	1355.9	1326.5
32.5°	1259.2	1250.9	1263.5	1238.2
35°	1158.5	1152.2	1164.9	1137.5
37.5°	1049.4	1043.1	1055.8	1028.4
40°	931.9	925.6	936.1	923.5
42.5°	816.5	810.1	820.6	810.1
45°	703.1	698.9	709.4	698.9
47.5°	598.1	594.0	604.5	594.0
50°	497.4	499.5	503.8	499.5
52.5°	407.1	407.1	413.5	407.1
55°	329.5	331.6	333.8	329.5
57.5°	262.4	262.4	264.5	262.4
60°	203.6	205.6	205.6	203.6
62.5°	161.6	161.6	161.6	161.6
65°	128.0	128.0	130.1	128.0
67.5°	100.8	98.6	100.8	98.6
70°	75.5	75.5	75.5	75.5
72.5°	58.8	58.8	56.6	56.6
75°	42.0	44.1	42.0	42.0
77.5°	29.4	29.4	29.4	29.4
80°	18.9	18.9	18.9	18.9
82.5°	12.6	12.6	12.6	12.6
85°	8.4	6.2	6.2	6.2
87.5°	4.2	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°





















(END OF REPORT)