

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: P252377

Luminaire Tested: **LE_6B30D010 EC6B30508035 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B30D010 EC6B30508035 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3422.5 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

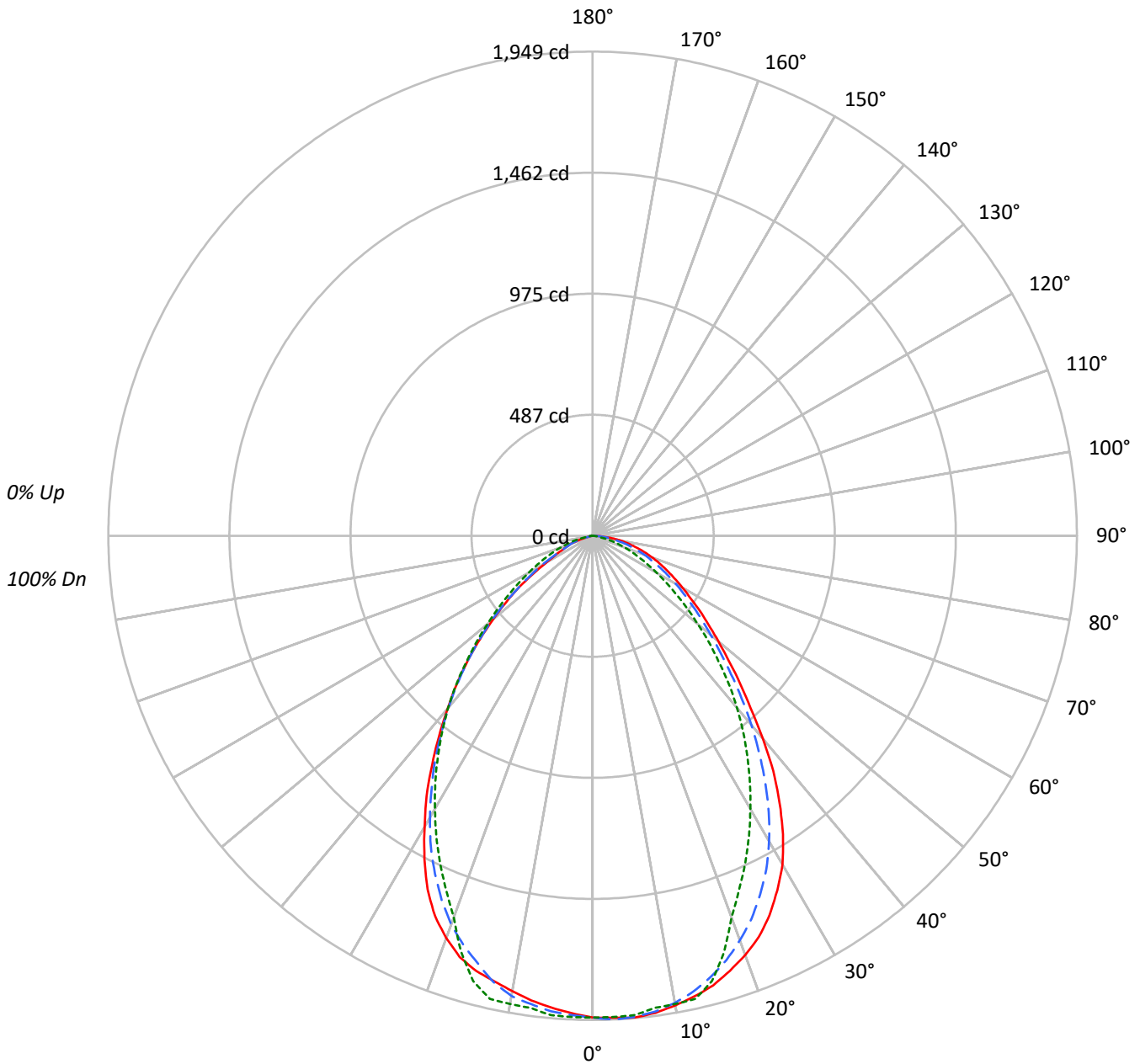
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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								
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68								
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60								
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54								
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48								
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44								
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40								
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36								
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	126515	126515	126515
5°	127496	126841	124856
10°	127135	126797	123292
15°	126560	125365	122467
20°	124664	113479	119596
25°	121288	104602	113125
30°	115170	95613	101881
35°	104501	86454	89663
40°	90718	76998	77211
45°	77373	66227	65526
50°	66977	55975	52920
55°	59875	46692	40959
60°	54554	38766	27597
65°	50927	31878	20609
70°	48527	25942	17282
75°	45726	18401	5697
80°	43544	9430	1879
85°	35856	5614	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.1	5.4
10°-20°	512.2	15.0
20°-30°	707.0	20.7
30°-40°	719.4	21.0
40°-50°	578.2	16.9
50°-60°	384.5	11.2
60°-70°	219.1	6.4
70°-80°	98.4	2.9
80°-90°	20.7	0.6
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°	1402.3	41.0
0°-40°	2121.7	62.0
0°-60°	3084.3	90.1
0°-90°	3422.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3422.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1939	1939	1939	1939	1939	
5°	1947	1944	1937	1922	1906	185
15°	1874	1838	1856	1783	1813	527
25°	1685	1594	1453	1501	1572	772
35°	1312	1211	1086	1106	1126	815
45°	839	788	718	710	710	650
55°	526	491	410	365	360	473
65°	330	295	206	134	134	329
75°	181	151	73	30	23	194
85°	48	33	8	2	0	57
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°	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2
2.5°	1941.8	1951.8	1949.2	1946.8	1949.2	1946.8	1941.8	1941.8	1936.8	1936.8	1949.2
5°	1946.8	1951.8	1949.2	1946.8	1946.8	1949.2	1939.2	1939.2	1934.1	1931.6	1944.2
7.5°	1936.8	1944.2	1939.2	1939.2	1936.8	1939.2	1929.1	1929.1	1921.6	1919.1	1931.6
10°	1919.1	1929.1	1924.1	1924.1	1924.1	1919.1	1914.0	1911.5	1904.0	1901.5	1909.0
12.5°	1898.9	1906.5	1904.0	1898.9	1898.9	1898.9	1888.9	1886.4	1876.2	1871.2	1878.8
15°	1873.8	1878.8	1876.2	1873.8	1868.8	1868.8	1858.6	1853.6	1843.5	1833.5	1838.5
17.5°	1836.0	1843.5	1838.5	1836.0	1828.4	1828.4	1818.4	1813.2	1798.1	1788.1	1790.6
20°	1795.6	1798.1	1795.6	1790.6	1783.1	1780.5	1770.5	1760.4	1747.9	1735.2	1732.8
22.5°	1747.9	1750.4	1742.8	1737.8	1730.1	1727.6	1715.1	1707.5	1687.4	1672.2	1669.8
25°	1684.9	1687.4	1687.4	1674.8	1669.8	1664.8	1652.1	1639.5	1621.9	1601.8	1594.2
27.5°	1609.2	1616.9	1611.9	1599.2	1589.1	1586.6	1574.0	1564.0	1541.2	1523.6	1513.6
30°	1528.8	1526.2	1523.6	1516.1	1501.0	1498.5	1485.9	1473.2	1455.6	1433.0	1420.4
32.5°	1425.5	1425.5	1422.9	1415.4	1400.2	1395.2	1385.1	1370.0	1349.9	1332.2	1319.6
35°	1312.1	1314.6	1312.1	1297.0	1286.9	1281.9	1276.9	1259.2	1241.6	1221.5	1211.4
37.5°	1193.8	1186.2	1188.8	1176.1	1163.5	1168.6	1153.5	1145.9	1125.8	1110.6	1100.6
40°	1065.2	1070.4	1060.2	1055.2	1047.6	1040.1	1040.1	1027.5	1017.5	999.9	994.8
42.5°	939.4	947.0	944.4	939.4	929.4	931.9	919.2	914.2	901.6	894.0	886.5
45°	838.6	838.6	838.6	833.6	831.1	826.0	818.5	811.0	803.4	793.4	788.2
47.5°	740.4	740.4	743.0	737.9	732.9	730.4	725.4	725.4	712.8	702.6	697.6
50°	659.9	659.9	659.9	654.8	649.8	649.8	644.8	639.8	632.1	624.6	619.5
52.5°	586.8	586.8	586.8	581.8	579.2	576.8	574.2	571.8	561.6	556.6	551.5
55°	526.4	523.9	523.9	521.4	516.2	516.2	513.8	508.8	501.1	493.6	491.1
57.5°	465.9	468.4	465.9	465.9	460.9	460.9	455.9	453.4	445.8	440.8	435.8
60°	418.1	418.1	418.1	415.5	410.5	413.0	408.0	405.5	397.9	390.4	385.4
62.5°	370.2	372.8	372.8	370.2	365.1	365.1	362.6	360.1	352.6	345.0	337.5
65°	329.9	329.9	329.9	327.4	324.9	324.9	322.4	319.9	312.2	302.2	294.6
67.5°	292.1	289.6	289.6	289.6	287.1	284.6	282.1	279.5	272.0	264.5	254.4
70°	254.4	254.4	254.4	251.9	246.8	249.4	246.8	244.2	236.8	229.1	221.6
72.5°	219.1	219.1	216.6	214.1	214.1	211.5	211.5	209.0	201.5	191.4	183.9
75°	181.4	181.4	181.4	181.4	176.2	178.8	173.8	171.2	166.2	158.6	151.1
77.5°	148.6	148.6	148.6	146.1	143.5	143.5	141.0	138.5	131.0	125.9	115.9
80°	115.9	115.9	115.9	115.9	113.4	110.8	108.2	105.8	100.8	93.1	85.6
82.5°	85.6	85.6	83.1	83.1	83.1	80.6	78.1	75.5	70.5	65.5	60.5
85°	47.9	50.4	50.4	45.4	47.9	45.4	45.4	40.2	40.2	35.2	32.8
87.5°	17.6	15.1	15.1	15.1	15.1	15.1	15.1	12.6	12.6	12.6	10.1
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°	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2
2.5°	1939.2	1936.8	1946.8	1946.8	1931.6	1939.2	1941.8	1936.8	1936.8	1939.2	1931.6
5°	1934.1	1929.1	1939.2	1941.8	1926.6	1934.1	1936.8	1931.6	1934.1	1936.8	1926.6
7.5°	1916.5	1916.5	1924.1	1926.6	1911.5	1919.1	1919.1	1914.0	1916.5	1916.5	1909.0
10°	1898.9	1891.4	1898.9	1898.9	1886.4	1888.9	1893.9	1891.4	1901.5	1914.0	1914.0
12.5°	1866.1	1858.6	1871.2	1871.2	1863.6	1873.8	1886.4	1893.9	1904.0	1909.0	1893.9
15°	1825.9	1828.4	1851.1	1868.8	1861.1	1876.2	1888.9	1883.8	1871.2	1856.1	1833.5
17.5°	1773.0	1765.5	1785.6	1795.6	1785.6	1790.6	1800.8	1790.6	1770.5	1757.9	1727.6
20°	1712.5	1692.4	1692.4	1687.4	1669.8	1669.8	1667.2	1649.6	1642.0	1634.5	1621.9
22.5°	1644.5	1621.9	1614.4	1599.2	1584.1	1581.6	1574.0	1556.4	1546.4	1541.2	1526.2
25°	1566.5	1546.4	1533.8	1518.6	1496.0	1490.9	1483.4	1465.8	1460.8	1453.1	1440.5
27.5°	1485.9	1460.8	1443.1	1428.0	1407.9	1405.2	1390.2	1377.6	1367.5	1362.5	1352.4
30°	1392.8	1365.0	1352.4	1332.2	1317.1	1312.1	1299.5	1281.9	1274.4	1269.2	1261.8
32.5°	1289.5	1266.8	1254.2	1236.6	1216.4	1218.9	1203.9	1188.8	1183.6	1178.6	1171.1
35°	1188.8	1166.0	1151.0	1135.9	1123.2	1118.2	1108.1	1095.5	1088.0	1085.5	1080.4
37.5°	1077.9	1060.2	1047.6	1032.6	1022.5	1017.5	1012.4	999.9	994.8	994.8	984.8
40°	969.6	954.5	944.4	936.9	924.2	921.8	916.8	909.1	906.6	904.1	896.6
42.5°	871.4	851.2	843.6	838.6	831.1	826.0	823.5	818.5	816.0	813.5	805.9
45°	778.2	760.6	753.0	748.0	740.4	737.9	735.4	727.9	722.8	717.8	715.2
47.5°	687.5	675.0	672.4	659.9	654.8	649.8	644.8	639.8	637.1	634.6	624.6
50°	609.5	601.9	589.4	581.8	576.8	574.2	564.1	556.6	554.0	551.5	544.0
52.5°	539.0	528.9	521.4	508.8	506.2	501.1	496.1	486.1	481.0	478.5	471.0
55°	476.0	468.4	458.4	448.2	440.8	438.2	430.6	420.6	415.5	410.5	405.5
57.5°	423.1	410.5	400.4	390.4	385.4	377.8	370.2	365.1	357.6	350.1	342.5
60°	372.8	362.6	350.1	340.0	335.0	329.9	319.9	312.2	304.8	297.1	289.6
62.5°	324.9	314.8	302.2	292.1	287.1	282.1	272.0	264.5	256.9	249.4	239.2
65°	282.1	272.0	261.9	251.9	246.8	241.8	231.8	221.6	214.1	206.5	196.5
67.5°	246.8	234.2	224.1	214.1	209.0	204.0	193.9	186.4	176.2	168.8	158.6
70°	209.0	199.0	191.4	181.4	176.2	171.2	161.1	151.1	143.5	136.0	125.9
72.5°	176.2	163.8	156.1	146.1	141.0	138.5	128.5	120.9	113.4	103.2	95.8
75°	141.0	131.0	120.9	113.4	108.2	105.8	95.8	88.1	80.6	73.0	65.5
77.5°	108.2	100.8	90.6	83.1	78.1	75.5	65.5	57.9	50.4	45.4	37.8
80°	80.6	70.5	65.5	57.9	55.4	50.4	45.4	37.8	32.8	25.1	20.1
82.5°	55.4	47.9	42.9	37.8	35.2	32.8	27.8	22.6	17.6	15.1	12.6
85°	30.2	25.1	22.6	20.1	17.6	17.6	15.1	12.6	10.1	7.5	5.0
87.5°	10.1	7.5	7.5	7.5	7.5	5.0	5.0	5.0	2.5	2.5	2.5
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°	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2
2.5°	1936.8	1936.8	1936.8	1934.1	1934.1	1934.1	1931.6	1941.8	1931.6	1929.1	1936.8
5°	1934.1	1929.1	1929.1	1929.1	1929.1	1926.6	1924.1	1929.1	1921.6	1919.1	1919.1
7.5°	1919.1	1916.5	1916.5	1914.0	1911.5	1909.0	1906.5	1909.0	1901.5	1898.9	1898.9
10°	1921.6	1916.5	1916.5	1909.0	1904.0	1896.4	1888.9	1891.4	1881.2	1873.8	1873.8
12.5°	1891.4	1878.8	1871.2	1863.6	1858.6	1856.1	1846.0	1851.1	1841.0	1838.5	1838.5
15°	1823.4	1808.2	1795.6	1790.6	1790.6	1785.6	1778.0	1788.1	1783.1	1785.6	1798.1
17.5°	1717.6	1710.0	1702.5	1700.0	1702.5	1707.5	1712.5	1727.6	1727.6	1735.2	1747.9
20°	1624.4	1619.4	1624.4	1624.4	1626.9	1637.0	1647.1	1659.6	1664.8	1672.2	1689.9
22.5°	1533.8	1533.8	1538.8	1546.4	1543.9	1561.5	1564.0	1586.6	1586.6	1601.8	1616.9
25°	1445.6	1445.6	1450.6	1453.1	1458.2	1468.2	1478.4	1496.0	1501.0	1516.1	1528.8
27.5°	1360.0	1357.5	1357.5	1360.0	1365.0	1377.6	1382.6	1402.8	1410.4	1420.4	1433.0
30°	1264.2	1261.8	1266.8	1271.9	1269.2	1281.9	1289.5	1304.6	1309.6	1319.6	1329.8
32.5°	1173.6	1173.6	1173.6	1178.6	1178.6	1188.8	1188.8	1206.4	1206.4	1213.9	1224.0
35°	1080.4	1080.4	1083.0	1085.5	1088.0	1090.5	1093.0	1103.1	1105.6	1108.1	1113.1
37.5°	992.2	989.8	992.2	992.2	987.2	997.2	997.2	1007.4	999.9	1007.4	1009.9
40°	901.6	901.6	899.1	899.1	899.1	904.1	899.1	906.6	901.6	906.6	904.1
42.5°	808.4	808.4	803.4	808.4	805.9	805.9	805.9	811.0	803.4	808.4	811.0
45°	715.2	712.8	712.8	710.2	710.2	710.2	712.8	712.8	710.2	715.2	715.2
47.5°	624.6	622.0	622.0	622.0	622.0	624.6	617.0	622.0	617.0	617.0	617.0
50°	546.5	544.0	541.5	539.0	536.4	536.4	533.9	533.9	528.9	526.4	523.9
52.5°	471.0	468.4	463.4	463.4	460.9	458.4	450.8	450.8	443.2	440.8	440.8
55°	403.0	395.4	392.9	387.9	387.9	382.8	377.8	372.8	365.1	360.1	360.1
57.5°	340.0	332.4	327.4	324.9	322.4	317.4	307.2	304.8	294.6	292.1	289.6
60°	284.6	277.0	269.5	264.5	261.9	254.4	244.2	239.2	234.2	226.6	219.1
62.5°	231.8	224.1	214.1	211.5	206.5	199.0	191.4	183.9	178.8	171.2	166.2
65°	186.4	178.8	171.2	166.2	161.1	153.6	146.1	138.5	133.5	131.0	128.5
67.5°	151.1	141.0	133.5	131.0	125.9	120.9	113.4	110.8	105.8	105.8	105.8
70°	118.4	110.8	103.2	100.8	98.2	93.1	88.1	88.1	88.1	88.1	88.1
72.5°	88.1	83.1	75.5	73.0	70.5	68.0	63.0	65.5	63.0	63.0	63.0
75°	55.4	50.4	45.4	42.9	40.2	37.8	35.2	32.8	30.2	27.8	27.8
77.5°	30.2	25.1	22.6	20.1	20.1	17.6	15.1	15.1	12.6	12.6	12.6
80°	17.6	15.1	12.6	10.1	10.1	7.5	7.5	7.5	7.5	5.0	5.0
82.5°	10.1	7.5	5.0	5.0	5.0	5.0	2.5	2.5	2.5	2.5	2.5
85°	5.0	5.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0.0
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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: P252377

CATALOG NUMBER: LE_6B30D010 EC6B30508035 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2
2.5°	1924.1	1931.6	1924.1	1931.6	1931.6	1931.6	1931.6	1924.1
5°	1911.5	1916.5	1909.0	1914.0	1916.5	1914.0	1914.0	1906.5
7.5°	1888.9	1893.9	1886.4	1893.9	1896.4	1893.9	1891.4	1886.4
10°	1866.1	1868.8	1861.1	1866.1	1871.2	1871.2	1868.8	1861.1
12.5°	1830.9	1838.5	1830.9	1836.0	1841.0	1843.5	1843.5	1836.0
15°	1790.6	1803.2	1798.1	1805.8	1813.2	1815.8	1815.8	1813.2
17.5°	1750.4	1762.9	1755.4	1768.0	1775.5	1780.5	1783.1	1778.0
20°	1692.4	1707.5	1702.5	1712.5	1722.6	1730.1	1730.1	1722.6
22.5°	1616.9	1637.0	1634.5	1642.0	1654.6	1657.1	1662.1	1657.1
25°	1533.8	1548.9	1546.4	1553.9	1569.0	1569.0	1571.5	1571.5
27.5°	1438.0	1453.1	1450.6	1455.6	1465.8	1468.2	1470.8	1465.8
30°	1334.8	1342.4	1342.4	1349.9	1357.5	1360.0	1360.0	1352.4
32.5°	1221.5	1231.5	1236.6	1234.0	1241.6	1246.6	1244.1	1244.1
35°	1118.2	1120.8	1123.2	1125.8	1128.2	1133.2	1128.2	1125.8
37.5°	1007.4	1015.0	1009.9	1015.0	1020.0	1017.5	1015.0	1015.0
40°	906.6	909.1	904.1	909.1	911.6	911.6	911.6	906.6
42.5°	805.9	811.0	805.9	811.0	811.0	811.0	811.0	808.4
45°	705.1	710.2	710.2	712.8	712.8	710.2	710.2	710.2
47.5°	612.0	617.0	612.0	617.0	619.5	614.5	614.5	614.5
50°	523.9	521.4	521.4	523.9	523.9	523.9	523.9	521.4
52.5°	433.1	435.8	435.8	435.8	438.2	435.8	438.2	438.2
55°	355.1	355.1	355.1	357.6	355.1	355.1	357.6	360.1
57.5°	284.6	282.1	279.5	279.5	282.1	279.5	279.5	279.5
60°	219.1	216.6	214.1	214.1	214.1	214.1	214.1	211.5
62.5°	163.8	163.8	163.8	166.2	166.2	166.2	166.2	168.8
65°	131.0	131.0	131.0	131.0	131.0	131.0	131.0	133.5
67.5°	105.8	105.8	105.8	108.2	108.2	108.2	108.2	108.2
70°	88.1	88.1	90.6	88.1	90.6	90.6	90.6	90.6
72.5°	60.5	60.5	60.5	60.5	60.5	57.9	60.5	57.9
75°	25.1	25.1	25.1	25.1	25.1	25.1	25.1	22.6
77.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
80°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	2.5	2.5	2.5	2.5	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)