

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: P252275

Luminaire Tested: **LE_6B30D010 EC6B30508050 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B30D010 EC6B30508050 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3533.7 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

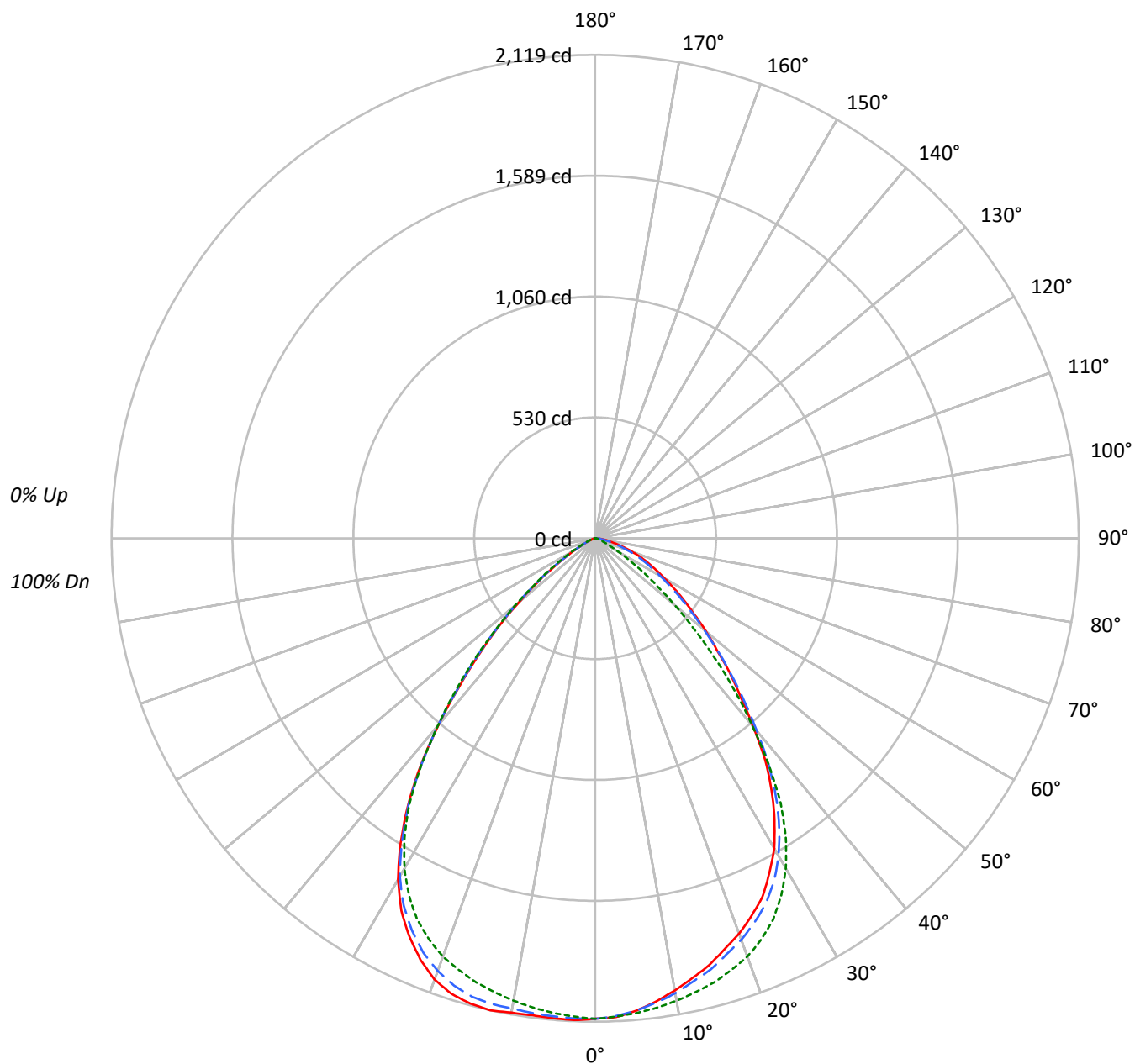
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90						
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80						
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72						
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64						
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58						
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52						
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47						
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43						
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40						
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37						

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	137423	137423	137423
5°	136114	136776	138275
10°	133302	136336	139874
15°	130755	136084	142608
20°	128052	135460	142882
25°	124887	132769	138629
30°	118243	125912	130116
35°	107376	112856	113859
40°	91638	91212	90778
45°	76985	68294	66190
50°	64288	46221	43897
55°	54119	28345	25752
60°	45799	14940	12944
65°	39658	7858	6298
70°	33000	4864	3395
75°	24350	3227	1916
80°	19123	1916	939
85°	15270	1871	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.5	5.6
10°-20°	568.4	16.1
20°-30°	839.3	23.8
30°-40°	865.0	24.5
40°-50°	597.4	16.9
50°-60°	294.5	8.3
60°-70°	119.3	3.4
70°-80°	42.5	1.2
80°-90°	8.8	0.2
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°	1606.2	45.5
0°-40°	2471.2	69.9
0°-60°	3363.1	95.2
0°-90°	3533.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3533.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2106	2106	2106	2106	2106	
5°	2078	2078	2088	2104	2111	196
15°	1936	1956	2015	2081	2111	545
25°	1735	1768	1844	1898	1926	793
35°	1348	1381	1417	1425	1430	835
45°	834	840	740	730	717	645
55°	476	458	249	234	226	430
65°	257	232	51	41	41	255
75°	97	81	13	8	8	108
85°	20	15	2	0	0	25
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°	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4
2.5°	2101.2	2093.6	2098.8	2088.5	2101.2	2088.5	2091.1	2093.6	2091.1	2093.6	2096.1
5°	2078.4	2070.8	2078.4	2065.6	2078.4	2070.8	2070.8	2073.2	2073.2	2075.8	2078.4
7.5°	2047.9	2040.2	2047.9	2035.1	2050.4	2042.8	2042.8	2047.9	2045.2	2047.9	2052.9
10°	2012.2	2002.0	2009.6	2002.0	2017.2	2007.1	2012.2	2012.2	2012.2	2019.9	2024.9
12.5°	1974.0	1963.9	1974.0	1961.4	1976.6	1969.0	1971.5	1979.1	1981.6	1986.8	1989.4
15°	1935.9	1923.1	1928.2	1920.6	1935.9	1928.2	1930.8	1941.0	1941.0	1948.6	1956.2
17.5°	1887.5	1877.4	1887.5	1877.4	1890.1	1885.0	1890.1	1897.8	1897.8	1905.4	1913.0
20°	1844.4	1834.1	1841.8	1834.1	1849.4	1841.8	1844.4	1854.5	1857.0	1864.6	1872.2
22.5°	1790.9	1783.2	1788.4	1780.8	1796.0	1790.9	1793.4	1803.6	1806.1	1811.2	1824.0
25°	1734.9	1719.6	1727.2	1722.2	1737.5	1729.9	1734.9	1745.1	1750.2	1757.9	1768.0
27.5°	1653.5	1645.9	1651.0	1651.0	1663.8	1656.1	1658.6	1668.8	1676.4	1684.0	1696.8
30°	1569.6	1556.9	1562.0	1564.5	1574.6	1569.6	1574.6	1584.9	1587.4	1597.5	1607.8
32.5°	1462.8	1457.6	1467.9	1462.8	1467.9	1467.9	1470.4	1478.0	1483.1	1488.1	1500.9
35°	1348.2	1338.1	1348.2	1343.1	1355.9	1348.2	1355.9	1363.5	1363.5	1373.8	1381.4
37.5°	1223.6	1210.9	1216.0	1216.0	1221.0	1218.5	1218.5	1231.2	1233.8	1241.4	1249.0
40°	1076.0	1071.0	1081.1	1078.6	1081.1	1081.1	1083.8	1091.4	1096.4	1099.0	1101.5
42.5°	943.8	946.4	948.9	948.9	948.9	948.9	948.9	959.0	956.5	964.1	966.6
45°	834.4	824.2	829.2	826.8	834.4	826.8	834.4	842.0	836.9	844.6	839.5
47.5°	722.5	722.5	722.5	719.9	725.0	722.5	727.5	730.1	730.1	730.1	727.5
50°	633.4	625.8	628.4	628.4	630.9	628.4	633.4	636.0	636.0	630.9	620.8
52.5°	546.9	544.4	544.4	549.5	549.5	546.9	546.9	546.9	546.9	539.2	534.2
55°	475.8	470.6	473.1	473.1	473.1	473.1	475.8	473.1	473.1	465.5	457.9
57.5°	412.1	407.0	407.0	407.0	409.6	407.0	407.0	407.0	404.5	396.9	386.6
60°	351.0	348.5	351.0	351.0	353.6	351.0	351.0	351.0	346.0	338.4	328.1
62.5°	300.1	300.1	300.1	302.8	302.8	300.1	300.1	297.6	295.1	284.9	274.8
65°	256.9	254.4	256.9	256.9	259.5	259.5	256.9	254.4	251.9	241.6	231.5
67.5°	213.6	211.1	213.6	213.6	216.2	213.6	213.6	213.6	206.0	201.0	190.8
70°	173.0	170.5	170.5	170.5	173.0	167.9	170.5	170.5	165.4	157.8	147.5
72.5°	132.2	132.2	132.2	132.2	132.2	132.2	129.8	129.8	124.6	117.0	111.9
75°	96.6	96.6	99.2	99.2	96.6	96.6	96.6	94.1	91.6	86.5	81.4
77.5°	71.2	71.2	71.2	71.2	68.6	68.6	68.6	66.1	63.6	61.0	56.0
80°	50.9	50.9	50.9	48.4	50.9	48.4	48.4	48.4	43.2	40.8	38.1
82.5°	35.6	33.1	33.1	33.1	33.1	33.1	33.1	30.5	30.5	28.0	25.5
85°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	17.8	15.2	15.2
87.5°	10.1	12.8	12.8	12.8	12.8	12.8	12.8	10.1	10.1	10.1	7.6
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°	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4
2.5°	2096.1	2096.1	2101.2	2093.6	2106.4	2098.8	2096.1	2108.9	2101.2	2098.8	2103.8
5°	2078.4	2080.9	2083.5	2078.4	2091.1	2083.5	2083.5	2096.1	2091.1	2088.5	2096.1
7.5°	2055.5	2058.0	2063.1	2060.5	2070.8	2065.6	2068.1	2080.9	2075.8	2075.8	2083.5
10°	2027.5	2032.5	2037.6	2037.6	2050.4	2045.2	2045.2	2060.5	2055.5	2058.0	2068.1
12.5°	1994.4	2002.0	2009.6	2012.2	2024.9	2017.2	2019.9	2037.6	2035.1	2037.6	2047.9
15°	1958.8	1969.0	1976.6	1976.6	1991.9	1984.2	1991.9	2009.6	2004.6	2014.8	2027.5
17.5°	1918.1	1928.2	1938.4	1941.0	1956.2	1951.1	1961.4	1979.1	1979.1	1984.2	1999.5
20°	1879.9	1892.6	1897.8	1905.4	1920.6	1918.1	1923.1	1943.5	1943.5	1951.1	1966.4
22.5°	1829.0	1841.8	1852.0	1859.6	1872.2	1872.2	1879.9	1897.8	1897.8	1902.9	1918.1
25°	1773.1	1788.4	1796.0	1803.6	1816.4	1813.8	1821.4	1836.6	1839.2	1844.4	1859.6
27.5°	1701.9	1714.6	1724.8	1729.9	1747.6	1737.5	1745.1	1762.9	1760.4	1765.5	1778.1
30°	1612.9	1625.5	1635.8	1635.8	1651.0	1651.0	1658.6	1666.2	1666.2	1671.4	1681.5
32.5°	1508.5	1523.8	1523.8	1531.4	1541.6	1531.4	1541.6	1551.8	1546.6	1554.2	1562.0
35°	1389.0	1396.6	1399.1	1399.1	1406.8	1404.2	1401.6	1409.2	1404.2	1417.0	1424.6
37.5°	1244.0	1254.1	1249.0	1254.1	1251.6	1244.0	1244.0	1256.6	1246.5	1249.0	1256.6
40°	1104.0	1104.0	1101.5	1088.8	1091.4	1083.8	1081.1	1083.8	1073.5	1071.0	1081.1
42.5°	959.0	956.5	948.9	931.0	933.6	920.9	910.8	910.8	905.6	903.1	905.6
45°	829.2	821.6	809.0	788.6	783.5	773.4	753.0	747.9	740.2	740.2	742.9
47.5°	709.8	699.6	679.2	656.4	643.6	630.9	610.5	602.9	590.1	585.1	590.1
50°	610.5	592.8	567.2	534.2	521.5	506.2	485.9	473.1	460.5	455.4	452.8
52.5°	519.0	493.5	468.1	427.4	417.2	401.9	374.0	361.2	348.5	338.4	338.4
55°	440.1	417.2	381.6	343.4	328.1	312.9	284.9	267.1	254.4	249.2	244.2
57.5°	368.9	343.4	310.4	269.6	254.4	239.1	211.1	193.4	180.6	173.0	167.9
60°	310.4	282.4	249.2	213.6	195.9	180.6	152.6	134.9	122.1	114.5	109.4
62.5°	254.4	231.5	198.4	165.4	150.1	134.9	111.9	94.1	81.4	76.4	68.6
65°	213.6	190.8	160.2	132.2	119.5	104.2	84.0	68.6	58.5	50.9	45.8
67.5°	173.0	155.1	129.8	104.2	91.6	81.4	63.6	50.9	40.8	35.6	33.1
70°	137.4	119.5	99.2	78.9	71.2	61.0	48.4	35.6	30.5	25.5	22.9
72.5°	101.8	89.0	73.8	58.5	50.9	45.8	33.1	28.0	20.4	17.8	15.2
75°	73.8	63.6	53.4	40.8	35.6	33.1	25.5	17.8	15.2	12.8	10.1
77.5°	50.9	45.8	35.6	28.0	25.5	22.9	17.8	12.8	10.1	7.6	7.6
80°	33.1	28.0	22.9	17.8	17.8	15.2	10.1	7.6	7.6	5.1	5.1
82.5°	20.4	17.8	15.2	12.8	10.1	10.1	7.6	5.1	5.1	2.5	2.5
85°	12.8	10.1	7.6	7.6	5.1	5.1	5.1	2.5	2.5	2.5	2.5
87.5°	5.1	5.1	5.1	2.5	2.5	2.5	2.5	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°	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4
2.5°	2103.8	2103.8	2108.9	2101.2	2106.4	2106.4	2111.4	2101.2	2106.4	2108.9	2114.0
5°	2093.6	2096.1	2101.2	2098.8	2101.2	2101.2	2106.4	2093.6	2103.8	2103.8	2111.4
7.5°	2083.5	2083.5	2088.5	2086.0	2091.1	2093.6	2098.8	2088.5	2098.8	2098.8	2106.4
10°	2070.8	2070.8	2078.4	2075.8	2083.5	2086.0	2093.6	2083.5	2093.6	2096.1	2103.8
12.5°	2052.9	2055.5	2063.1	2063.1	2070.8	2075.8	2083.5	2078.4	2091.1	2093.6	2103.8
15°	2032.5	2037.6	2047.9	2045.2	2052.9	2060.5	2070.8	2063.1	2080.9	2086.0	2096.1
17.5°	2007.1	2012.2	2019.9	2019.9	2027.5	2032.5	2045.2	2040.2	2055.5	2058.0	2070.8
20°	1969.0	1976.6	1986.8	1984.2	1991.9	1997.0	2007.1	2002.0	2017.2	2022.4	2035.1
22.5°	1923.1	1928.2	1935.9	1935.9	1943.5	1948.6	1958.8	1951.1	1966.4	1969.0	1979.1
25°	1862.1	1867.2	1872.2	1874.9	1882.5	1885.0	1890.1	1885.0	1897.8	1900.2	1913.0
27.5°	1783.2	1785.8	1793.4	1793.4	1798.5	1801.1	1808.8	1798.5	1816.4	1816.4	1824.0
30°	1689.1	1686.6	1696.8	1691.6	1696.8	1696.8	1704.4	1699.2	1712.0	1707.0	1714.6
32.5°	1564.5	1569.6	1569.6	1564.5	1574.6	1572.1	1572.1	1567.0	1574.6	1577.2	1582.2
35°	1419.5	1427.1	1427.1	1429.6	1432.2	1424.6	1427.1	1411.9	1424.6	1427.1	1429.6
37.5°	1261.8	1254.1	1259.2	1251.6	1264.2	1249.0	1249.0	1238.9	1249.0	1249.0	1251.6
40°	1081.1	1078.6	1083.8	1078.6	1076.0	1073.5	1068.4	1060.8	1071.0	1065.9	1073.5
42.5°	910.8	908.1	908.1	903.1	900.5	900.5	895.5	890.4	887.9	887.9	900.5
45°	735.1	740.2	735.1	732.6	737.8	732.6	735.1	725.0	730.1	725.0	730.1
47.5°	587.6	590.1	585.1	580.0	587.6	580.0	580.0	572.4	582.5	582.5	577.5
50°	455.4	452.8	447.8	452.8	450.2	450.2	450.2	442.6	447.8	440.1	445.1
52.5°	335.8	333.2	333.2	330.8	333.2	330.8	330.8	328.1	328.1	325.6	328.1
55°	244.2	241.6	236.6	236.6	236.6	239.1	236.6	234.0	234.0	231.5	234.0
57.5°	165.4	160.2	160.2	160.2	160.2	157.8	157.8	155.1	157.8	155.1	157.8
60°	106.9	106.9	101.8	101.8	101.8	101.8	101.8	99.2	101.8	101.8	101.8
62.5°	66.1	66.1	63.6	61.0	63.6	61.0	61.0	61.0	63.6	61.0	63.6
65°	43.2	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
67.5°	30.5	28.0	28.0	28.0	28.0	28.0	28.0	25.5	28.0	28.0	28.0
70°	20.4	20.4	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
72.5°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
75°	10.1	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
77.5°	7.6	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
80°	5.1	5.1	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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: P252275

CATALOG NUMBER: LE_6B30D010 EC6B30508050 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4
2.5°	2106.4	2108.9	2103.8	2106.4	2101.2	2106.4	2108.9	2114.0
5°	2101.2	2103.8	2098.8	2103.8	2098.8	2103.8	2106.4	2111.4
7.5°	2096.1	2101.2	2096.1	2101.2	2096.1	2101.2	2103.8	2108.9
10°	2096.1	2103.8	2098.8	2106.4	2098.8	2103.8	2108.9	2111.4
12.5°	2096.1	2103.8	2101.2	2106.4	2103.8	2108.9	2114.0	2119.0
15°	2091.1	2098.8	2093.6	2101.2	2098.8	2101.2	2111.4	2111.4
17.5°	2063.1	2070.8	2070.8	2075.8	2075.8	2083.5	2088.5	2093.6
20°	2027.5	2035.1	2032.5	2040.2	2040.2	2047.9	2052.9	2058.0
22.5°	1974.0	1984.2	1981.6	1989.4	1986.8	1991.9	2002.0	1999.5
25°	1905.4	1918.1	1915.5	1920.6	1918.1	1918.1	1923.1	1925.8
27.5°	1821.4	1829.0	1826.5	1831.6	1826.5	1831.6	1836.6	1839.2
30°	1712.0	1717.1	1714.6	1717.1	1714.6	1719.6	1722.2	1727.2
32.5°	1579.8	1587.4	1579.8	1584.9	1582.2	1582.2	1592.5	1587.4
35°	1422.0	1424.6	1427.1	1427.1	1422.0	1424.6	1429.6	1429.6
37.5°	1246.5	1259.2	1244.0	1251.6	1249.0	1249.0	1249.0	1256.6
40°	1063.4	1065.9	1060.8	1060.8	1060.8	1058.2	1068.4	1065.9
42.5°	890.4	892.9	890.4	882.8	885.2	885.2	892.9	882.8
45°	722.5	727.5	725.0	725.0	719.9	719.9	722.5	717.4
47.5°	572.4	577.5	569.9	572.4	567.2	572.4	569.9	574.9
50°	435.0	440.1	437.5	440.1	440.1	435.0	442.6	432.5
52.5°	325.6	328.1	325.6	323.1	320.5	320.5	325.6	323.1
55°	231.5	229.0	229.0	229.0	231.5	231.5	229.0	226.4
57.5°	155.1	155.1	152.6	152.6	155.1	150.1	152.6	150.1
60°	99.2	99.2	99.2	99.2	96.6	99.2	99.2	99.2
62.5°	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
65°	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
67.5°	25.5	28.0	28.0	28.0	25.5	25.5	25.5	25.5
70°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
72.5°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
75°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
77.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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)