

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: P252273

Luminaire Tested: **LE_6B30D010 EC6B30508035 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252273
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 EC6B30508035 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3498.7 lumens
Efficiency: N/A
Efficacy: 125.0 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

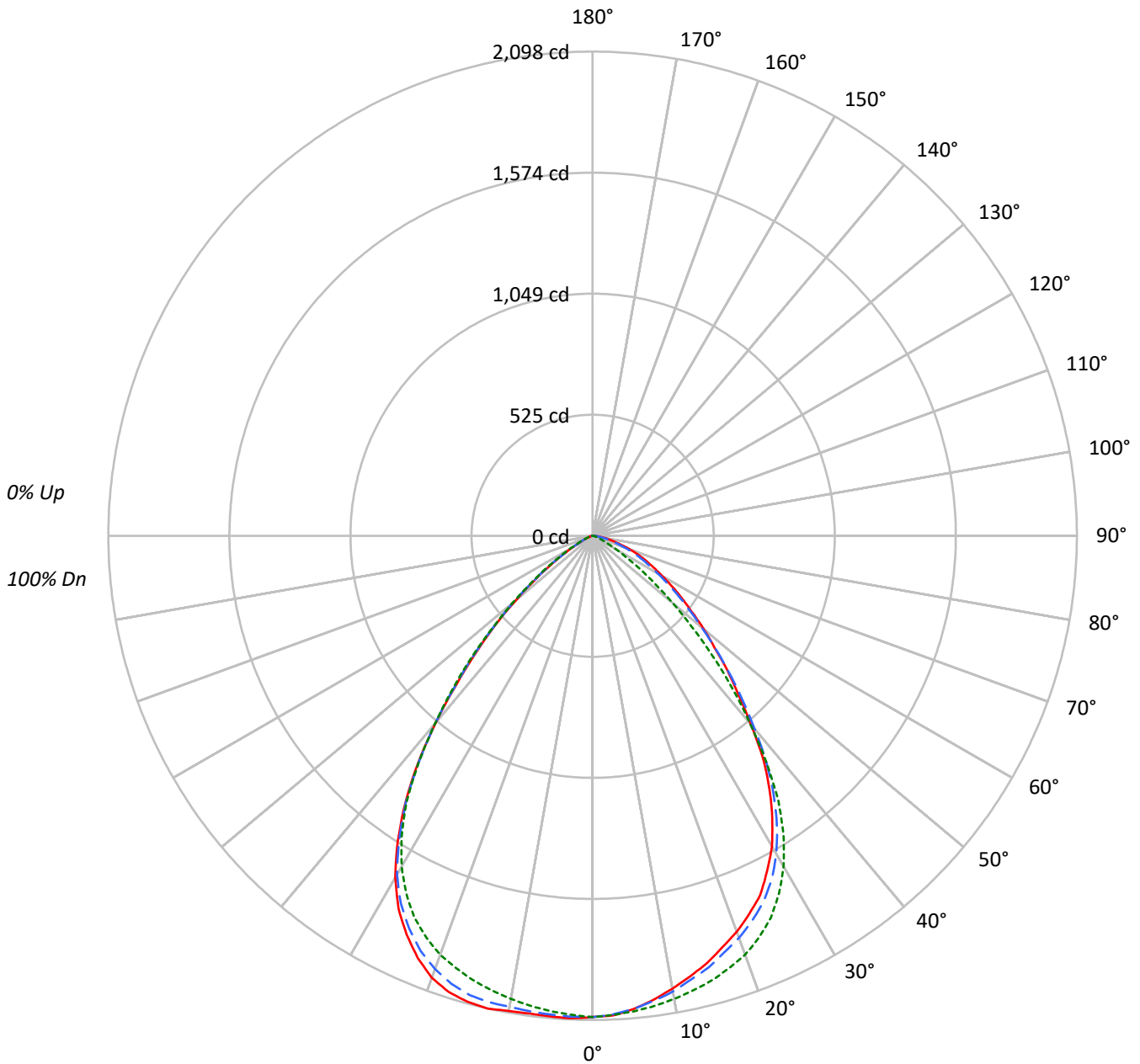
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252273

CATALOG NUMBER: LE_6B30D010 EC6B30508035 6LBSW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252273

CATALOG NUMBER: LE_6B30D010 EC6B30508035 6LBSW1H

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	136059	136059	136059
5°	134765	135426	136907
10°	131977	134985	138489
15°	129465	134733	141197
20°	126775	134127	141466
25°	123656	131445	137247
30°	117068	124662	128828
35°	106317	111733	112736
40°	90735	90310	89884
45°	76219	67620	65526
50°	63648	45765	43451
55°	53573	28083	25490
60°	45355	14797	12813
65°	39272	7780	6206
70°	32657	4788	3357
75°	24148	3176	1891
80°	18936	1879	939
85°	15046	1871	0



TEST NUMBER: P252273

CATALOG NUMBER: LE_6B30D010 EC6B30508035 6LBSW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.5	5.6
10°-20°	562.8	16.1
20°-30°	831.0	23.8
30°-40°	856.4	24.5
40°-50°	591.5	16.9
50°-60°	291.6	8.3
60°-70°	118.1	3.4
70°-80°	42.1	1.2
80°-90°	8.7	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°	1590.3	45.5
0°-40°	2446.7	69.9
0°-60°	3329.8	95.2
0°-90°	3498.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3498.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2086	2086	2086	2086	2086	
5°	2058	2058	2068	2083	2090	194
15°	1917	1937	1995	2060	2090	540
25°	1718	1750	1826	1879	1907	785
35°	1335	1368	1403	1410	1416	827
45°	826	831	733	723	710	639
55°	471	453	247	232	224	426
65°	254	229	50	40	40	253
75°	96	81	13	8	8	107
85°	20	15	2	0	0	25
90°	0	0	0	0	0	



TEST NUMBER: P252273

CATALOG NUMBER: LE_6B30D010 EC6B30508035 6LBSW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2085.5	2085.5	2085.5	2085.5	2085.5	2085.5	2085.5	2085.5	2085.5	2085.5	2085.5
2.5°	2080.4	2072.9	2077.9	2067.9	2080.4	2067.9	2070.4	2072.9	2070.4	2072.9	2075.4
5°	2057.8	2050.2	2057.8	2045.1	2057.8	2050.2	2050.2	2052.8	2052.8	2055.2	2057.8
7.5°	2027.5	2020.0	2027.5	2015.0	2030.0	2022.5	2022.5	2027.5	2025.0	2027.5	2032.6
10°	1992.2	1982.2	1989.8	1982.2	1997.4	1987.2	1992.2	1992.2	1992.2	1999.9	2004.9
12.5°	1954.5	1944.4	1954.5	1941.9	1957.0	1949.5	1952.0	1959.5	1962.0	1967.1	1969.6
15°	1916.8	1904.1	1909.1	1901.6	1916.8	1909.1	1911.6	1921.8	1921.8	1929.2	1936.9
17.5°	1868.9	1858.8	1868.9	1858.8	1871.4	1866.4	1871.4	1879.0	1879.0	1886.5	1894.0
20°	1826.0	1816.0	1823.5	1816.0	1831.1	1823.5	1826.0	1836.1	1838.6	1846.2	1853.8
22.5°	1773.1	1765.6	1770.6	1763.1	1778.2	1773.1	1775.6	1785.8	1788.2	1793.2	1805.9
25°	1717.8	1702.6	1710.1	1705.1	1720.2	1712.8	1717.8	1727.9	1732.9	1740.4	1750.5
27.5°	1637.1	1629.6	1634.6	1634.6	1647.2	1639.6	1642.1	1652.2	1659.9	1667.4	1680.0
30°	1554.0	1541.4	1546.5	1549.0	1559.1	1554.0	1559.1	1569.1	1571.6	1581.8	1591.8
32.5°	1448.2	1443.2	1453.2	1448.2	1453.2	1453.2	1455.8	1463.4	1468.4	1473.4	1486.0
35°	1334.9	1324.9	1334.9	1329.9	1342.5	1334.9	1342.5	1350.0	1350.0	1360.1	1367.6
37.5°	1211.5	1198.9	1203.9	1203.9	1209.0	1206.5	1206.5	1219.0	1221.5	1229.1	1236.6
40°	1065.4	1060.4	1070.5	1067.9	1070.5	1070.5	1073.0	1080.5	1085.5	1088.1	1090.6
42.5°	934.4	937.0	939.5	939.5	939.5	939.5	939.5	949.5	947.0	954.6	957.1
45°	826.1	816.0	821.1	818.6	826.1	818.6	826.1	833.6	828.6	836.2	831.1
47.5°	715.2	715.2	715.2	712.8	717.9	715.2	720.4	722.9	722.9	722.9	720.4
50°	627.1	619.6	622.1	622.1	624.6	622.1	627.1	629.6	629.6	624.6	614.5
52.5°	541.5	539.0	539.0	544.0	544.0	541.5	541.5	541.5	541.5	534.0	528.9
55°	471.0	466.0	468.5	468.5	468.5	468.5	471.0	468.5	468.5	460.9	453.4
57.5°	408.0	403.0	403.0	403.0	405.5	403.0	403.0	403.0	400.5	392.9	382.9
60°	347.6	345.0	347.6	347.6	350.1	347.6	347.6	347.6	342.5	335.0	324.9
62.5°	297.2	297.2	297.2	299.8	299.8	297.2	297.2	294.6	292.1	282.1	272.0
65°	254.4	251.9	254.4	254.4	256.9	256.9	254.4	251.9	249.4	239.2	229.2
67.5°	211.6	209.0	211.6	211.6	214.1	211.6	211.6	211.6	204.0	199.0	188.9
70°	171.2	168.8	168.8	168.8	171.2	166.2	168.8	168.8	163.8	156.1	146.1
72.5°	131.0	131.0	131.0	131.0	131.0	131.0	128.5	128.5	123.4	115.9	110.9
75°	95.8	95.8	98.2	98.2	95.8	95.8	95.8	93.2	90.6	85.6	80.6
77.5°	70.5	70.5	70.5	70.5	68.0	68.0	68.0	65.5	63.0	60.5	55.4
80°	50.4	50.4	50.4	47.9	50.4	47.9	47.9	47.9	42.9	40.2	37.8
82.5°	35.2	32.8	32.8	32.8	32.8	32.8	32.8	30.2	30.2	27.8	25.1
85°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	17.6	15.1	15.1
87.5°	10.1	12.6	12.6	12.6	12.6	12.6	12.6	10.1	10.1	10.1	7.5
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: P252273

CATALOG NUMBER: LE_6B30D010 EC6B30508035 6LBSW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2085.5	2085.5	2085.5	2085.5	2085.5	2085.5	2085.5	2085.5	2085.5	2085.5	2085.5
2.5°	2075.4	2075.4	2080.4	2072.9	2085.5	2077.9	2075.4	2088.0	2080.4	2077.9	2083.0
5°	2057.8	2060.2	2062.8	2057.8	2070.4	2062.8	2062.8	2075.4	2070.4	2067.9	2075.4
7.5°	2035.1	2037.6	2042.6	2040.1	2050.2	2045.1	2047.8	2060.2	2055.2	2055.2	2062.8
10°	2007.4	2012.4	2017.5	2017.5	2030.0	2025.0	2025.0	2040.1	2035.1	2037.6	2047.8
12.5°	1974.6	1982.2	1989.8	1992.2	2004.9	1997.4	1999.9	2017.5	2015.0	2017.5	2027.5
15°	1939.4	1949.5	1957.0	1957.0	1972.1	1964.6	1972.1	1989.8	1984.8	1994.8	2007.4
17.5°	1899.1	1909.1	1919.2	1921.8	1936.9	1931.9	1941.9	1959.5	1959.5	1964.6	1979.6
20°	1861.2	1873.9	1879.0	1886.5	1901.6	1899.1	1904.1	1924.2	1924.2	1931.9	1947.0
22.5°	1810.9	1823.5	1833.6	1841.1	1853.8	1853.8	1861.2	1879.0	1879.0	1884.0	1899.1
25°	1755.5	1770.6	1778.2	1785.8	1798.4	1795.9	1803.4	1818.5	1821.0	1826.0	1841.1
27.5°	1685.0	1697.6	1707.6	1712.8	1730.4	1720.2	1727.9	1745.5	1742.9	1748.0	1760.5
30°	1596.9	1609.5	1619.5	1619.5	1634.6	1634.6	1642.1	1649.8	1649.8	1654.8	1664.9
32.5°	1493.6	1508.8	1508.8	1516.2	1526.4	1516.2	1526.4	1536.4	1531.4	1538.9	1546.5
35°	1375.2	1382.8	1385.2	1385.2	1392.9	1390.4	1387.8	1395.4	1390.4	1402.9	1410.5
37.5°	1231.6	1241.8	1236.6	1241.8	1239.2	1231.6	1231.6	1244.2	1234.1	1236.6	1244.2
40°	1093.1	1093.1	1090.6	1078.0	1080.5	1073.0	1070.5	1073.0	1062.9	1060.4	1070.5
42.5°	949.5	947.0	939.5	921.9	924.4	911.8	901.8	901.8	896.6	894.1	896.6
45°	821.1	813.5	801.0	780.8	775.8	765.6	745.5	740.5	732.9	732.9	735.5
47.5°	702.8	692.6	672.5	649.9	637.2	624.6	604.5	596.9	584.4	579.2	584.4
50°	604.5	586.9	561.6	528.9	516.4	501.2	481.1	468.5	455.9	450.9	448.4
52.5°	513.8	488.6	463.5	423.1	413.1	398.0	370.2	357.6	345.0	335.0	335.0
55°	435.8	413.1	377.8	340.0	324.9	309.8	282.1	264.5	251.9	246.9	241.8
57.5°	365.2	340.0	307.2	267.0	251.9	236.8	209.0	191.4	178.9	171.2	166.2
60°	307.2	279.6	246.9	211.6	194.0	178.9	151.1	133.5	120.9	113.4	108.2
62.5°	251.9	229.2	196.5	163.8	148.6	133.5	110.9	93.2	80.6	75.5	68.0
65°	211.6	188.9	158.6	131.0	118.4	103.2	83.1	68.0	57.9	50.4	45.4
67.5°	171.2	153.6	128.5	103.2	90.6	80.6	63.0	50.4	40.2	35.2	32.8
70°	136.0	118.4	98.2	78.1	70.5	60.5	47.9	35.2	30.2	25.1	22.6
72.5°	100.8	88.1	73.0	57.9	50.4	45.4	32.8	27.8	20.1	17.6	15.1
75°	73.0	63.0	52.9	40.2	35.2	32.8	25.1	17.6	15.1	12.6	10.1
77.5°	50.4	45.4	35.2	27.8	25.1	22.6	17.6	12.6	10.1	7.5	7.5
80°	32.8	27.8	22.6	17.6	17.6	15.1	10.1	7.5	7.5	5.0	5.0
82.5°	20.1	17.6	15.1	12.6	10.1	10.1	7.5	5.0	5.0	2.5	2.5
85°	12.6	10.1	7.5	7.5	5.0	5.0	5.0	2.5	2.5	2.5	2.5
87.5°	5.0	5.0	5.0	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



TEST NUMBER: P252273

CATALOG NUMBER: LE_6B30D010 EC6B30508035 6LBSW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2085.5	2085.5	2085.5	2085.5	2085.5	2085.5	2085.5	2085.5	2085.5	2085.5	2085.5
2.5°	2083.0	2083.0	2088.0	2080.4	2085.5	2085.5	2090.5	2080.4	2085.5	2088.0	2093.0
5°	2072.9	2075.4	2080.4	2077.9	2080.4	2080.4	2085.5	2072.9	2083.0	2083.0	2090.5
7.5°	2062.8	2062.8	2067.9	2065.4	2070.4	2072.9	2077.9	2067.9	2077.9	2077.9	2085.5
10°	2050.2	2050.2	2057.8	2055.2	2062.8	2065.4	2072.9	2062.8	2072.9	2075.4	2083.0
12.5°	2032.6	2035.1	2042.6	2042.6	2050.2	2055.2	2062.8	2057.8	2070.4	2072.9	2083.0
15°	2012.4	2017.5	2027.5	2025.0	2032.6	2040.1	2050.2	2042.6	2060.2	2065.4	2075.4
17.5°	1987.2	1992.2	1999.9	1999.9	2007.4	2012.4	2025.0	2020.0	2035.1	2037.6	2050.2
20°	1949.5	1957.0	1967.1	1964.6	1972.1	1977.1	1987.2	1982.2	1997.4	2002.4	2015.0
22.5°	1904.1	1909.1	1916.8	1916.8	1924.2	1929.2	1939.4	1931.9	1947.0	1949.5	1959.5
25°	1843.6	1848.8	1853.8	1856.2	1863.9	1866.4	1871.4	1866.4	1879.0	1881.5	1894.0
27.5°	1765.6	1768.1	1775.6	1775.6	1780.8	1783.2	1790.8	1780.8	1798.4	1798.4	1805.9
30°	1672.4	1669.9	1680.0	1674.9	1680.0	1680.0	1687.5	1682.5	1695.1	1690.0	1697.6
32.5°	1549.0	1554.0	1554.0	1549.0	1559.1	1556.5	1556.5	1551.5	1559.1	1561.6	1566.6
35°	1405.4	1413.0	1413.0	1415.5	1418.0	1410.5	1413.0	1397.9	1410.5	1413.0	1415.5
37.5°	1249.2	1241.8	1246.8	1239.2	1251.8	1236.6	1236.6	1226.6	1236.6	1236.6	1239.2
40°	1070.5	1067.9	1073.0	1067.9	1065.4	1062.9	1057.9	1050.2	1060.4	1055.4	1062.9
42.5°	901.8	899.1	899.1	894.1	891.6	891.6	886.6	881.5	879.0	879.0	891.6
45°	727.9	732.9	727.9	725.4	730.4	725.4	727.9	717.9	722.9	717.9	722.9
47.5°	581.9	584.4	579.2	574.2	581.9	574.2	574.2	566.8	576.8	576.8	571.8
50°	450.9	448.4	443.2	448.4	445.8	445.8	445.8	438.2	443.2	435.8	440.8
52.5°	332.5	330.0	330.0	327.4	330.0	327.4	327.4	324.9	324.9	322.4	324.9
55°	241.8	239.2	234.2	234.2	234.2	236.8	234.2	231.8	231.8	229.2	231.8
57.5°	163.8	158.6	158.6	158.6	158.6	156.1	156.1	153.6	156.1	153.6	156.1
60°	105.8	105.8	100.8	100.8	100.8	100.8	100.8	98.2	100.8	100.8	100.8
62.5°	65.5	65.5	63.0	60.5	63.0	60.5	60.5	60.5	63.0	60.5	63.0
65°	42.9	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
67.5°	30.2	27.8	27.8	27.8	27.8	27.8	27.8	25.1	27.8	27.8	27.8
70°	20.1	20.1	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
72.5°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
75°	10.1	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
77.5°	7.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
80°	5.0	5.0	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: P252273

CATALOG NUMBER: LE_6B30D010 EC6B30508035 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2085.5	2085.5	2085.5	2085.5	2085.5	2085.5	2085.5	2085.5
2.5°	2085.5	2088.0	2083.0	2085.5	2080.4	2085.5	2088.0	2093.0
5°	2080.4	2083.0	2077.9	2083.0	2077.9	2083.0	2085.5	2090.5
7.5°	2075.4	2080.4	2075.4	2080.4	2075.4	2080.4	2083.0	2088.0
10°	2075.4	2083.0	2077.9	2085.5	2077.9	2083.0	2088.0	2090.5
12.5°	2075.4	2083.0	2080.4	2085.5	2083.0	2088.0	2093.0	2098.1
15°	2070.4	2077.9	2072.9	2080.4	2077.9	2080.4	2090.5	2090.5
17.5°	2042.6	2050.2	2050.2	2055.2	2055.2	2062.8	2067.9	2072.9
20°	2007.4	2015.0	2012.4	2020.0	2020.0	2027.5	2032.6	2037.6
22.5°	1954.5	1964.6	1962.0	1969.6	1967.1	1972.1	1982.2	1979.6
25°	1886.5	1899.1	1896.6	1901.6	1899.1	1899.1	1904.1	1906.6
27.5°	1803.4	1810.9	1808.4	1813.5	1808.4	1813.5	1818.5	1821.0
30°	1695.1	1700.1	1697.6	1700.1	1697.6	1702.6	1705.1	1710.1
32.5°	1564.1	1571.6	1564.1	1569.1	1566.6	1566.6	1576.8	1571.6
35°	1408.0	1410.5	1413.0	1413.0	1408.0	1410.5	1415.5	1415.5
37.5°	1234.1	1246.8	1231.6	1239.2	1236.6	1236.6	1236.6	1244.2
40°	1052.8	1055.4	1050.2	1050.2	1050.2	1047.8	1057.9	1055.4
42.5°	881.5	884.0	881.5	874.0	876.5	876.5	884.0	874.0
45°	715.2	720.4	717.9	717.9	712.8	712.8	715.2	710.2
47.5°	566.8	571.8	564.1	566.8	561.6	566.8	564.1	569.2
50°	430.8	435.8	433.2	435.8	435.8	430.8	438.2	428.1
52.5°	322.4	324.9	322.4	319.9	317.4	317.4	322.4	319.9
55°	229.2	226.6	226.6	226.6	229.2	229.2	226.6	224.1
57.5°	153.6	153.6	151.1	151.1	153.6	148.6	151.1	148.6
60°	98.2	98.2	98.2	98.2	95.8	98.2	98.2	98.2
62.5°	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
65°	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
67.5°	25.1	27.8	27.8	27.8	25.1	25.1	25.1	25.1
70°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
72.5°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
75°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
77.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)