

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: P252585

Luminaire Tested: **LE_6B30D010 EC6B30508035 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252585
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 EC6B30508035 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE 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: 3772.5 lumens
Efficiency: N/A
Efficacy: 134.7 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

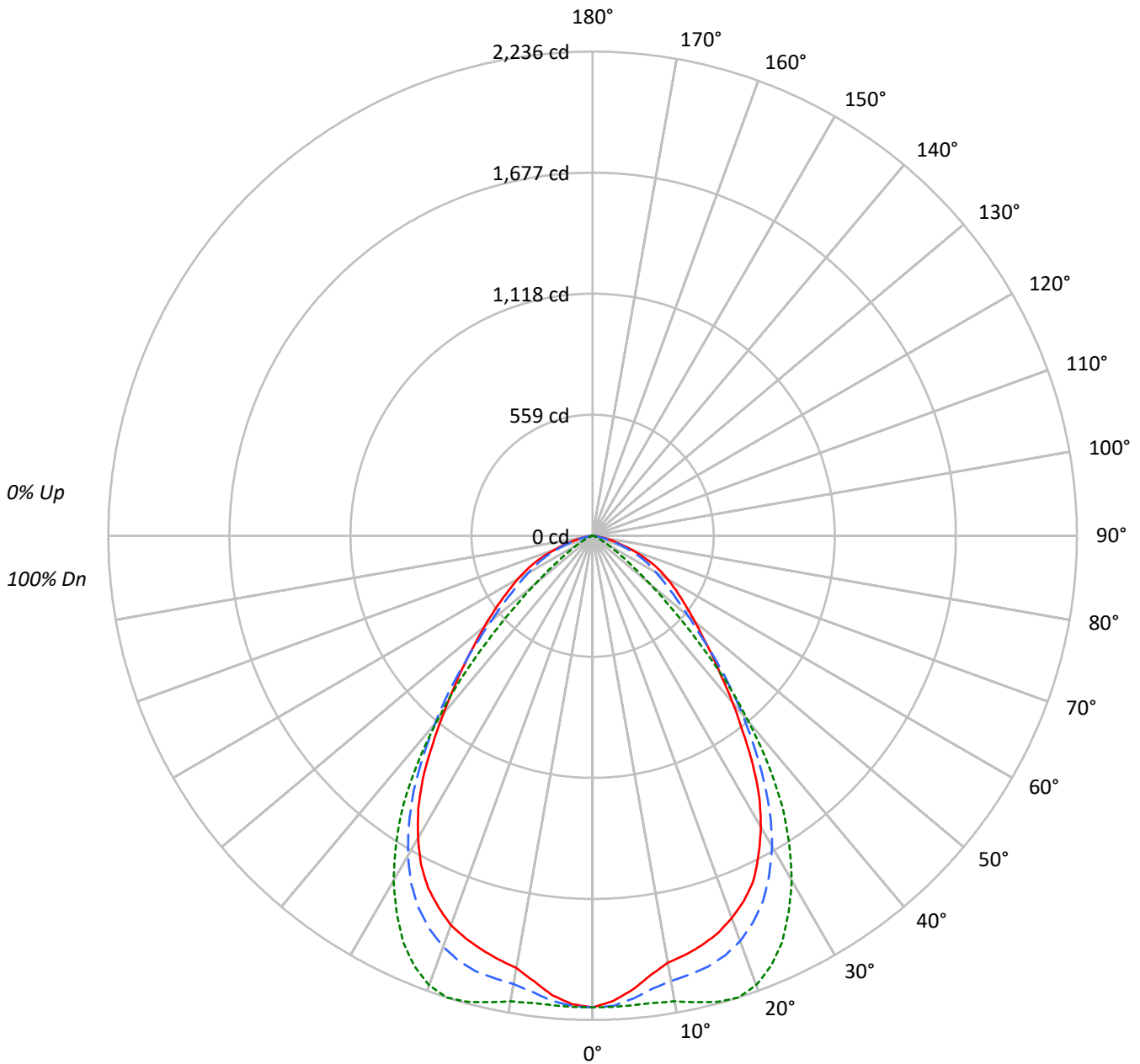
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252585

CATALOG NUMBER: LE_6B30D010 EC6B30508035 6LBDW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P252585

CATALOG NUMBER: LE_6B30D010 EC6B30508035 6LBDW1LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	142094	142094	142094
5°	137856	142473	139506
10°	132613	144624	134283
15°	132146	150511	133673
20°	130413	153310	132857
25°	126514	148995	129242
30°	117038	138470	121400
35°	102677	121728	108698
40°	85557	95428	91136
45°	72021	62961	76902
50°	62359	34499	66186
55°	56417	18324	57850
60°	51918	9525	51918
65°	47022	5063	45864
70°	37940	2880	35060
75°	26014	1891	24098
80°	17057	939	15103
85°	11303	1871	9432



TEST NUMBER: P252585

CATALOG NUMBER: LE_6B30D010 EC6B30508035 6LBDW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.1	5.4
10°-20°	587.3	15.6
20°-30°	867.7	23.0
30°-40°	876.5	23.2
40°-50°	604.1	16.0
50°-60°	347.0	9.2
60°-70°	201.9	5.4
70°-80°	73.7	2.0
80°-90°	11.2	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°	1658.1	44.0
0°-40°	2534.6	67.2
0°-60°	3485.6	92.4
0°-90°	3772.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3772.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2178	2178	2178	2178	2178	
5°	2105	2145	2176	2155	2130	197
15°	1956	2060	2228	2082	1979	551
25°	1758	1861	2070	1898	1795	801
35°	1289	1377	1528	1440	1365	800
45°	781	791	682	841	834	607
55°	496	436	161	453	509	447
65°	305	257	33	254	297	298
75°	103	83	8	81	96	116
85°	15	8	2	10	13	19
90°	0	0	0	0	0	



TEST NUMBER: P252585

CATALOG NUMBER: LE_6B30D010 EC6B30508035 6LBDW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0
2.5°	2150.4	2152.9	2155.4	2152.9	2155.4	2165.5	2157.9	2163.0	2163.0	2165.5	2173.0
5°	2105.0	2105.0	2110.1	2107.5	2115.1	2125.1	2117.6	2125.1	2127.8	2132.8	2145.4
7.5°	2047.1	2047.1	2049.6	2049.6	2059.8	2069.8	2064.8	2074.9	2084.9	2095.0	2110.1
10°	2001.8	2006.9	2006.9	2009.4	2019.4	2032.0	2029.5	2042.1	2052.1	2067.2	2087.4
12.5°	1981.6	1984.1	1984.1	1989.2	1999.2	2011.9	2009.4	2021.9	2037.0	2054.6	2074.9
15°	1956.5	1961.5	1959.0	1964.0	1974.1	1986.6	1984.1	1996.8	2014.4	2032.0	2059.8
17.5°	1923.8	1926.2	1928.8	1928.8	1938.9	1948.9	1948.9	1961.5	1981.6	2001.8	2032.0
20°	1878.4	1883.5	1883.5	1886.0	1893.5	1908.6	1906.1	1918.8	1938.9	1959.0	1991.8
22.5°	1825.5	1828.0	1828.0	1830.6	1843.1	1850.8	1853.2	1863.2	1880.9	1903.6	1933.8
25°	1757.5	1760.1	1757.5	1765.1	1770.1	1785.2	1780.2	1792.8	1813.0	1830.6	1860.8
27.5°	1659.4	1664.4	1664.4	1666.9	1679.5	1692.1	1692.1	1704.6	1722.2	1734.9	1765.1
30°	1553.6	1561.1	1553.6	1566.1	1571.2	1581.2	1588.9	1596.4	1611.5	1629.1	1656.9
32.5°	1432.8	1430.2	1432.8	1437.8	1452.9	1460.4	1465.5	1473.0	1488.1	1503.2	1525.9
35°	1289.2	1294.2	1296.8	1306.9	1306.9	1319.4	1322.0	1327.0	1349.6	1359.8	1377.4
37.5°	1138.1	1143.1	1145.6	1150.8	1160.8	1165.9	1173.4	1180.9	1196.0	1213.6	1223.8
40°	1004.6	1004.6	1007.2	1012.2	1019.8	1022.2	1029.9	1039.9	1050.0	1065.1	1075.1
42.5°	878.8	881.2	878.8	883.8	891.4	901.4	898.9	911.5	914.0	924.1	931.6
45°	780.6	780.6	775.5	780.6	780.6	790.6	788.1	793.1	790.6	795.6	790.6
47.5°	687.4	689.9	687.4	689.9	689.9	689.9	692.5	687.4	689.9	682.4	667.2
50°	614.4	616.9	611.9	614.4	611.9	609.4	611.9	604.4	601.8	591.8	576.6
52.5°	551.4	548.9	546.4	546.4	546.4	543.9	541.4	533.8	526.2	516.1	498.5
55°	496.0	493.5	491.0	491.0	486.0	483.5	483.5	475.9	468.4	455.8	435.6
57.5°	445.6	443.1	440.6	440.6	438.1	433.1	433.1	425.5	415.5	400.4	382.8
60°	397.9	397.9	397.9	395.4	395.4	390.2	390.2	382.8	372.6	357.5	337.4
62.5°	355.0	352.5	352.5	352.5	352.5	350.0	347.5	342.5	332.4	317.2	299.6
65°	304.6	304.6	304.6	304.6	302.1	302.1	302.1	294.6	289.6	274.5	256.9
67.5°	249.2	249.2	249.2	249.2	246.8	249.2	249.2	244.2	239.2	224.1	209.0
70°	198.9	196.4	193.9	196.4	193.9	193.9	196.4	191.4	188.9	176.2	161.1
72.5°	146.0	148.5	146.0	146.0	146.0	143.5	146.0	143.5	138.5	128.4	118.4
75°	103.2	105.8	105.8	103.2	103.2	103.2	100.8	100.8	95.6	88.1	83.1
77.5°	70.5	70.5	70.5	70.5	68.0	68.0	68.0	65.5	63.0	57.9	52.9
80°	45.4	45.4	45.4	45.4	42.8	42.8	42.8	40.2	40.2	35.2	30.2
82.5°	27.8	27.8	27.8	27.8	27.8	27.8	25.1	25.1	22.6	20.1	17.6
85°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	12.6	12.6	10.1	7.5
87.5°	5.0	5.0	7.5	7.5	7.5	7.5	7.5	7.5	5.0	5.0	5.0
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: P252585

CATALOG NUMBER: LE_6B30D010 EC6B30508035 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0
2.5°	2168.0	2170.5	2170.5	2170.5	2178.0	2180.6	2173.0	2165.5	2180.6	2178.0	2183.1
5°	2142.8	2150.4	2155.4	2157.9	2165.5	2170.5	2163.0	2160.4	2173.0	2175.5	2178.0
7.5°	2112.6	2125.1	2137.8	2142.8	2152.9	2157.9	2155.4	2155.4	2170.5	2175.5	2175.5
10°	2092.5	2110.1	2125.1	2137.8	2150.4	2157.9	2157.9	2160.4	2178.0	2183.1	2188.1
12.5°	2087.4	2110.1	2130.2	2147.9	2157.9	2170.5	2173.0	2180.6	2198.2	2205.8	2205.8
15°	2074.9	2105.0	2130.2	2152.9	2168.0	2183.1	2188.1	2203.2	2223.4	2228.4	2233.5
17.5°	2052.1	2082.4	2112.6	2140.2	2160.4	2173.0	2188.1	2203.2	2228.4	2236.0	2238.5
20°	2011.9	2047.1	2077.4	2105.0	2125.1	2142.8	2157.9	2175.5	2198.2	2208.2	2210.8
22.5°	1951.4	1986.6	2016.9	2047.1	2067.2	2082.4	2097.5	2117.6	2140.2	2150.4	2150.4
25°	1878.4	1911.1	1943.9	1966.5	1986.6	2004.2	2011.9	2034.5	2057.2	2069.8	2069.8
27.5°	1785.2	1815.5	1845.6	1870.9	1883.5	1898.5	1911.1	1931.2	1948.9	1959.0	1969.0
30°	1666.9	1697.1	1724.9	1750.0	1765.1	1780.2	1792.8	1807.9	1825.5	1838.1	1840.6
32.5°	1538.5	1563.6	1591.4	1616.5	1631.6	1636.6	1649.2	1664.4	1679.5	1689.6	1692.1
35°	1397.5	1415.1	1432.8	1455.4	1470.5	1470.5	1483.1	1493.1	1505.8	1528.4	1523.4
37.5°	1231.2	1256.5	1269.0	1276.6	1286.6	1296.8	1299.2	1311.9	1327.0	1332.0	1339.6
40°	1075.1	1082.8	1090.2	1090.2	1100.4	1100.4	1100.4	1102.9	1118.0	1120.5	1130.6
42.5°	919.0	919.0	911.5	904.0	906.5	904.0	891.4	891.4	898.9	909.0	909.0
45°	773.0	755.4	732.8	715.1	702.5	697.5	682.4	682.4	679.9	682.4	692.5
47.5°	649.6	619.4	581.6	546.4	533.8	523.8	501.1	491.0	486.0	488.5	493.5
50°	546.4	513.6	470.9	428.0	405.4	392.8	365.1	347.5	345.0	339.9	350.0
52.5°	470.9	430.6	385.2	334.9	312.2	292.1	261.9	246.8	236.8	236.8	239.2
55°	405.4	362.6	312.2	261.9	239.2	224.1	193.9	173.8	163.6	161.1	168.8
57.5°	350.0	309.8	259.4	209.0	186.4	168.8	138.5	120.9	113.2	108.2	110.8
60°	307.2	266.9	216.5	168.8	148.5	128.4	103.2	83.1	73.0	73.0	75.5
62.5°	266.9	229.1	183.8	138.5	120.9	103.2	75.5	57.9	50.4	47.9	50.4
65°	226.6	191.4	153.6	115.9	98.2	83.1	60.4	45.4	35.2	32.8	35.2
67.5°	183.8	156.1	123.4	93.1	78.0	65.5	45.4	32.8	25.1	22.6	25.1
70°	143.5	118.4	93.1	68.0	57.9	47.9	32.8	25.1	17.6	15.1	17.6
72.5°	103.2	85.6	65.5	47.9	40.2	32.8	22.6	17.6	12.6	10.1	12.6
75°	70.5	57.9	42.8	30.2	25.1	22.6	15.1	10.1	7.5	7.5	7.5
77.5°	45.4	35.2	27.8	20.1	15.1	12.6	7.5	5.0	5.0	5.0	5.0
80°	25.1	20.1	15.1	10.1	7.5	7.5	5.0	5.0	2.5	2.5	2.5
82.5°	15.1	10.1	7.5	5.0	5.0	2.5	2.5	2.5	2.5	2.5	2.5
85°	7.5	5.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	2.5	2.5	2.5	2.5	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: P252585

CATALOG NUMBER: LE_6B30D010 EC6B30508035 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0
2.5°	2173.0	2175.5	2168.0	2178.0	2170.5	2180.6	2180.6	2170.5	2173.0	2168.0	2178.0
5°	2168.0	2168.0	2163.0	2170.5	2160.4	2170.5	2168.0	2150.4	2155.4	2145.4	2155.4
7.5°	2168.0	2163.0	2155.4	2163.0	2150.4	2157.9	2147.9	2130.2	2125.1	2112.6	2112.6
10°	2175.5	2168.0	2157.9	2160.4	2147.9	2150.4	2135.2	2110.1	2102.5	2087.4	2082.4
12.5°	2193.1	2185.6	2170.5	2175.5	2157.9	2157.9	2137.8	2107.5	2092.5	2072.2	2067.2
15°	2218.4	2205.8	2188.1	2190.6	2173.0	2163.0	2137.8	2102.5	2082.4	2054.6	2047.1
17.5°	2223.4	2210.8	2188.1	2188.1	2165.5	2152.9	2122.6	2082.4	2057.2	2029.5	2014.4
20°	2195.6	2183.1	2157.9	2155.4	2135.2	2117.6	2084.9	2044.6	2019.4	1989.2	1976.6
22.5°	2137.8	2122.6	2100.0	2097.5	2077.4	2067.2	2032.0	1991.8	1966.5	1936.4	1926.2
25°	2052.1	2044.6	2021.9	2019.4	2001.8	1989.2	1959.0	1921.2	1898.5	1868.4	1858.2
27.5°	1951.4	1943.9	1921.2	1921.2	1901.1	1893.5	1865.9	1830.6	1813.0	1785.2	1772.6
30°	1830.6	1820.5	1807.9	1805.4	1787.8	1780.2	1755.0	1722.2	1704.6	1682.0	1677.0
32.5°	1687.0	1679.5	1672.0	1669.4	1651.8	1644.2	1626.6	1593.9	1578.8	1558.6	1551.1
35°	1520.9	1515.9	1508.2	1505.8	1498.2	1490.6	1473.0	1447.9	1440.2	1425.1	1417.6
37.5°	1329.5	1334.5	1329.5	1329.5	1322.0	1324.5	1309.4	1294.2	1286.6	1276.6	1271.6
40°	1123.0	1133.1	1140.6	1140.6	1138.1	1148.2	1145.6	1133.1	1130.6	1125.5	1123.0
42.5°	914.0	919.0	934.1	944.2	941.8	966.9	969.4	979.5	987.0	982.0	984.5
45°	695.0	710.1	730.2	740.2	752.9	785.6	803.2	823.4	841.0	851.1	848.5
47.5°	501.1	518.8	541.4	556.5	579.1	619.4	664.8	689.9	715.1	727.8	740.2
50°	362.6	380.2	407.9	430.6	445.6	501.1	548.9	581.6	609.4	627.0	639.6
52.5°	254.4	274.5	304.6	324.9	347.5	400.4	455.8	493.5	523.8	546.4	559.0
55°	176.2	198.9	226.6	246.8	272.0	327.4	380.2	420.5	453.2	473.4	488.5
57.5°	123.4	143.5	171.2	188.9	214.0	266.9	319.8	360.1	392.8	413.0	430.6
60°	83.1	103.2	130.9	148.5	168.8	221.6	269.4	312.2	342.5	362.6	380.2
62.5°	57.9	75.5	103.2	120.9	138.5	183.8	229.1	266.9	297.1	319.8	334.9
65°	45.4	60.4	83.1	98.2	115.9	153.6	191.4	224.1	254.4	277.0	287.0
67.5°	32.8	47.9	65.5	78.0	90.6	123.4	156.1	181.2	209.0	226.6	239.2
70°	22.6	32.8	47.9	57.9	68.0	93.1	118.4	141.0	161.1	173.8	183.8
72.5°	17.6	22.6	32.8	40.2	47.9	65.5	85.6	103.2	118.4	128.4	138.5
75°	10.1	15.1	22.6	27.8	32.8	45.4	57.9	70.5	80.6	88.1	93.1
77.5°	5.0	7.5	12.6	15.1	20.1	27.8	37.8	45.4	52.9	57.9	63.0
80°	5.0	5.0	7.5	7.5	10.1	15.1	20.1	25.1	30.2	35.2	37.8
82.5°	2.5	2.5	5.0	5.0	5.0	7.5	10.1	15.1	17.6	20.1	22.6
85°	2.5	2.5	2.5	2.5	2.5	5.0	5.0	7.5	10.1	12.6	12.6
87.5°	0.0	0.0	2.5	2.5	2.5	2.5	2.5	5.0	5.0	5.0	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: P252585

CATALOG NUMBER: LE_6B30D010 EC6B30508035 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0
2.5°	2170.5	2175.5	2173.0	2178.0	2170.5	2168.0	2173.0	2165.5
5°	2142.8	2145.4	2142.8	2142.8	2137.8	2132.8	2137.8	2130.2
7.5°	2100.0	2100.0	2092.5	2092.5	2082.4	2077.4	2077.4	2074.9
10°	2064.8	2057.2	2049.6	2052.1	2037.0	2032.0	2029.5	2027.0
12.5°	2047.1	2042.1	2029.5	2029.5	2014.4	2009.4	2006.9	2004.2
15°	2027.0	2016.9	2006.9	2004.2	1991.8	1986.6	1984.1	1979.1
17.5°	1991.8	1984.1	1971.6	1971.6	1959.0	1956.5	1951.4	1948.9
20°	1954.0	1943.9	1933.8	1933.8	1918.8	1918.8	1911.1	1913.6
22.5°	1901.1	1893.5	1883.5	1883.5	1870.9	1868.4	1860.8	1858.2
25°	1838.1	1828.0	1820.5	1818.0	1807.9	1802.9	1800.4	1795.4
27.5°	1755.0	1747.5	1739.9	1734.9	1722.2	1719.8	1712.2	1714.8
30°	1651.8	1646.8	1644.2	1639.2	1624.1	1619.0	1619.0	1611.5
32.5°	1538.5	1530.9	1525.9	1518.4	1505.8	1503.2	1495.6	1498.2
35°	1400.0	1389.9	1382.4	1384.9	1369.8	1367.2	1362.2	1364.8
37.5°	1256.5	1246.4	1236.4	1233.8	1221.2	1221.2	1213.6	1213.6
40°	1107.9	1097.9	1092.8	1092.8	1077.8	1080.2	1072.6	1070.1
42.5°	974.5	964.4	961.9	959.4	951.8	949.2	941.8	944.2
45°	848.5	846.0	846.0	841.0	833.5	830.9	833.5	833.5
47.5°	737.8	740.2	737.8	737.8	732.8	737.8	732.8	735.2
50°	644.6	649.6	649.6	649.6	647.1	649.6	649.6	652.1
52.5°	566.5	574.1	571.6	574.1	571.6	576.6	574.1	576.6
55°	498.5	503.6	506.1	508.6	508.6	508.6	508.6	508.6
57.5°	435.6	443.1	445.6	448.2	448.2	453.2	448.2	448.2
60°	385.2	392.8	395.4	397.9	397.9	400.4	395.4	397.9
62.5°	339.9	347.5	347.5	350.0	350.0	350.0	345.0	347.5
65°	294.6	297.1	299.6	299.6	297.1	297.1	294.6	297.1
67.5°	244.2	246.8	244.2	244.2	241.8	241.8	236.8	239.2
70°	188.9	188.9	191.4	188.9	186.4	188.9	186.4	183.8
72.5°	141.0	141.0	141.0	138.5	138.5	136.0	138.5	138.5
75°	95.6	95.6	98.2	98.2	98.2	98.2	95.6	95.6
77.5°	63.0	63.0	63.0	63.0	65.5	63.0	63.0	63.0
80°	40.2	40.2	42.8	42.8	40.2	40.2	40.2	40.2
82.5°	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
85°	15.1	15.1	15.1	15.1	12.6	12.6	12.6	12.6
87.5°	7.5	7.5	7.5	7.5	7.5	7.5	5.0	5.0
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)