

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: io LED

Report Number: P212840

Luminaire Tested: **LD6B50D010TE EU6B30509024 6LBSWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212840
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: io LED
Catalog Number: LD6B50D010TE EU6B30509024 6LBSWL11
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3690.6 lumens
Efficiency: N/A
Efficacy: 62.8 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

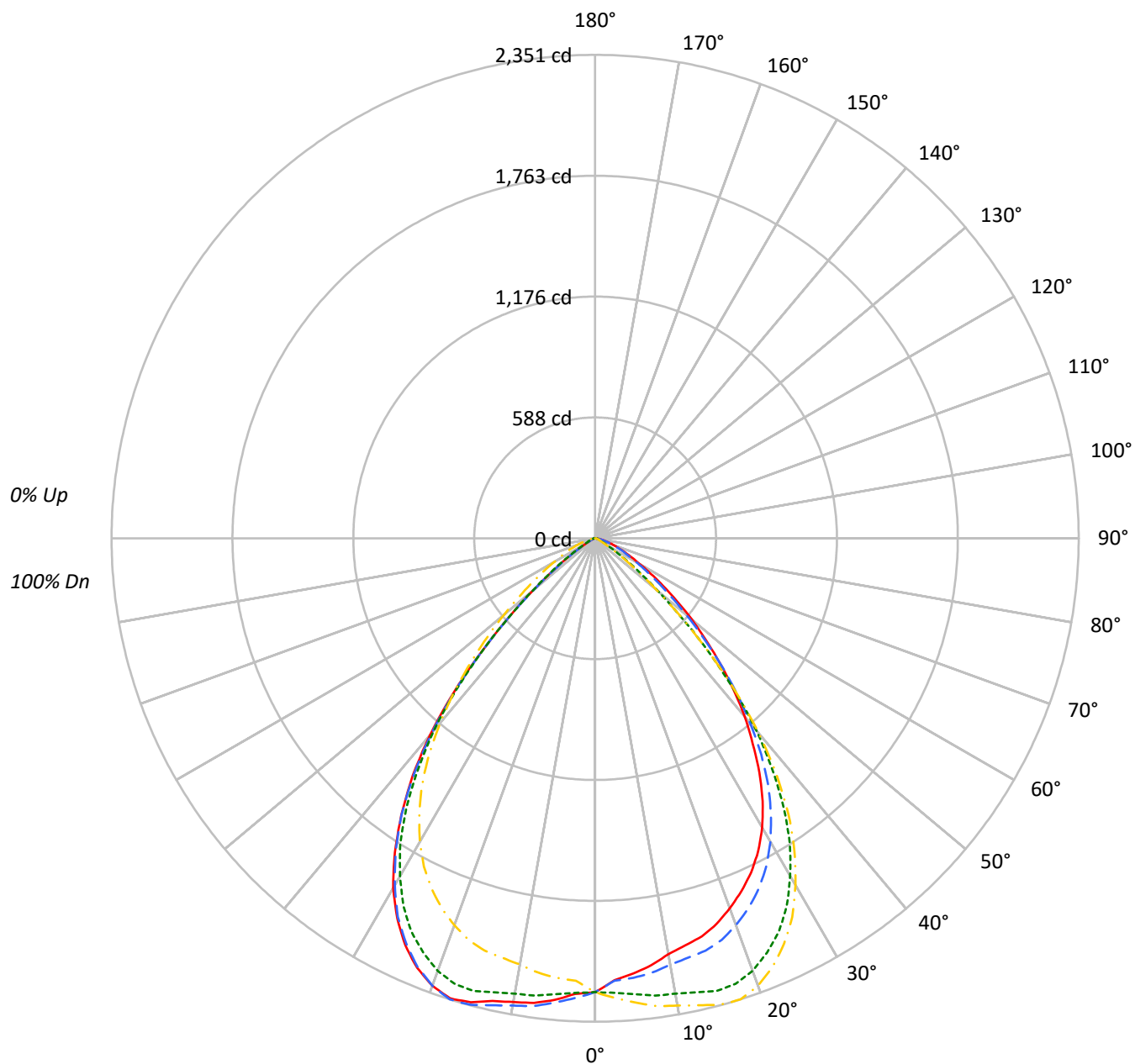
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	98	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	70	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°	121010	121010	121010	121010
5°	116949	122463	124020	122463
10°	114293	125165	127453	125165
15°	113758	129359	132572	129359
20°	111683	130573	135071	130573
25°	108496	127767	132123	127767
30°	102807	120050	124279	120050
35°	93210	106970	109894	106970
40°	80916	87170	89375	87170
45°	66340	60169	60564	60169
50°	52160	33747	33091	33747
55°	38555	16697	14986	16697
60°	27333	7324	5350	7324
65°	20339	4670	3334	4670
70°	14826	3703	2468	3703
75°	10887	2711	1631	2711
80°	7293	2431	821	2431
85°	4843	1635	1635	1635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.3	5.7
10°-20°	625.9	17.0
20°-30°	934.0	25.3
30°-40°	959.6	26.0
40°-50°	621.4	16.8
50°-60°	231.1	6.3
60°-70°	75.8	2.1
70°-80°	26.7	0.7
80°-90°	4.8	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°	1771.2	48.0
0°-40°	2730.8	74.0
0°-60°	3583.2	97.1
0°-90°	3690.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3690.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2207	2207	2207	2207	2207	
5°	2125	2225	2254	2225	2125	201
15°	2004	2279	2336	2279	2004	564
25°	1794	2112	2184	2112	1794	822
35°	1393	1598	1642	1598	1393	865
45°	856	776	781	776	856	662
55°	403	175	157	175	403	368
65°	157	36	26	36	157	159
75°	51	13	8	13	51	56
85°	8	3	3	3	8	10
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°	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4
2.5°	2150.9	2181.7	2161.1	2174.0	2153.4	2153.4	2194.5	2171.4	2189.4	2171.4	2153.4
5°	2125.2	2163.7	2138.0	2150.9	2132.9	2135.4	2174.0	2156.0	2174.0	2161.1	2145.7
7.5°	2094.3	2132.9	2109.7	2122.6	2104.6	2109.7	2150.9	2132.9	2153.4	2140.6	2130.3
10°	2053.2	2094.3	2073.8	2086.6	2071.2	2073.8	2114.9	2102.0	2120.0	2112.3	2104.6
12.5°	2027.5	2066.1	2042.9	2055.8	2045.5	2050.6	2089.2	2078.9	2102.0	2094.3	2089.2
15°	2004.4	2040.4	2019.8	2032.7	2024.9	2027.5	2068.6	2058.4	2084.1	2078.9	2076.3
17.5°	1965.8	2004.4	1981.3	1996.7	1989.0	1991.5	2032.7	2024.9	2050.6	2050.6	2048.1
20°	1914.4	1953.0	1935.0	1945.3	1940.1	1945.3	1981.3	1976.1	2001.8	2001.8	2001.8
22.5°	1857.9	1896.5	1875.9	1886.2	1881.0	1888.8	1922.2	1922.2	1942.7	1945.3	1947.9
25°	1793.7	1832.2	1811.7	1824.5	1819.4	1824.5	1855.3	1857.9	1875.9	1875.9	1881.0
27.5°	1716.6	1755.1	1734.6	1744.8	1742.3	1744.8	1778.3	1783.4	1793.7	1796.2	1801.4
30°	1624.1	1660.0	1639.5	1649.8	1649.8	1649.8	1683.2	1685.7	1696.0	1698.6	1703.7
32.5°	1516.1	1547.0	1531.6	1541.8	1539.3	1544.4	1567.5	1577.8	1590.7	1588.1	1590.7
35°	1392.8	1426.2	1410.8	1418.5	1421.1	1428.8	1444.2	1457.0	1459.6	1462.2	1467.3
37.5°	1259.2	1292.6	1277.2	1284.9	1287.4	1302.9	1308.0	1320.8	1326.0	1326.0	1326.0
40°	1130.7	1146.1	1133.3	1141.0	1143.5	1156.4	1161.5	1171.8	1176.9	1174.4	1171.8
42.5°	991.9	1004.8	991.9	999.6	999.6	1009.9	1012.5	1025.3	1025.3	1020.2	1012.5
45°	855.7	868.6	855.7	860.9	860.9	871.1	871.1	871.1	876.3	868.6	855.7
47.5°	727.2	740.1	727.2	732.4	729.8	737.5	734.9	737.5	729.8	724.7	709.2
50°	611.6	616.7	611.6	609.0	611.6	616.7	614.2	614.2	603.9	596.2	578.2
52.5°	498.5	506.2	498.5	498.5	498.5	503.7	503.7	501.1	490.8	480.5	462.6
55°	403.4	408.6	406.0	403.4	403.4	408.6	403.4	403.4	393.2	385.5	367.5
57.5°	321.2	323.8	321.2	321.2	321.2	323.8	323.8	318.6	310.9	303.2	290.4
60°	249.3	251.8	251.8	249.3	249.3	254.4	254.4	251.8	244.1	239.0	226.1
62.5°	197.9	197.9	197.9	197.9	197.9	200.4	200.4	200.4	195.3	190.2	179.9
65°	156.8	159.3	156.8	156.8	159.3	161.9	159.3	161.9	156.8	154.2	146.5
67.5°	120.8	123.3	120.8	123.3	123.3	125.9	123.3	125.9	120.8	118.2	113.1
70°	92.5	92.5	92.5	92.5	92.5	95.1	92.5	95.1	92.5	89.9	84.8
72.5°	69.4	69.4	72.0	72.0	69.4	72.0	69.4	69.4	69.4	66.8	64.2
75°	51.4	51.4	54.0	51.4	51.4	51.4	51.4	51.4	48.8	48.8	46.3
77.5°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	33.4	33.4	30.8
80°	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	20.6	20.6
82.5°	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	12.8	12.8
85°	7.7	7.7	7.7	10.3	7.7	7.7	7.7	7.7	7.7	7.7	7.7
87.5°	2.6	2.6	2.6	5.1	2.6	2.6	5.1	5.1	2.6	2.6	2.6
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°	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4
2.5°	2174.0	2181.7	2181.7	2174.0	2192.0	2176.6	2207.4	2179.1	2186.8	2212.5	2210.0
5°	2166.3	2176.6	2179.1	2174.0	2197.1	2184.3	2215.1	2186.8	2199.7	2225.4	2225.4
7.5°	2156.0	2168.9	2174.0	2179.1	2199.7	2186.8	2222.8	2194.5	2212.5	2243.4	2240.8
10°	2132.9	2150.9	2161.1	2168.9	2189.4	2181.7	2220.2	2197.1	2212.5	2248.5	2245.9
12.5°	2120.0	2140.6	2156.0	2168.9	2192.0	2186.8	2225.4	2204.8	2225.4	2261.4	2261.4
15°	2109.7	2132.9	2150.9	2174.0	2197.1	2192.0	2233.1	2215.1	2235.7	2279.3	2276.8
17.5°	2084.1	2112.3	2130.3	2156.0	2179.1	2176.6	2220.2	2207.4	2230.5	2271.6	2274.2
20°	2040.4	2066.1	2086.6	2117.5	2143.2	2138.0	2184.3	2171.4	2194.5	2238.2	2240.8
22.5°	1983.8	2009.5	2030.1	2063.5	2086.6	2084.1	2130.3	2117.5	2140.6	2181.7	2184.3
25°	1917.0	1940.1	1960.7	1991.5	2017.2	2017.2	2058.4	2045.5	2071.2	2112.3	2112.3
27.5°	1834.8	1855.3	1873.3	1909.3	1929.9	1929.9	1968.4	1955.6	1981.3	2017.2	2014.7
30°	1734.6	1752.6	1768.0	1798.8	1816.8	1819.4	1852.8	1839.9	1865.6	1896.5	1896.5
32.5°	1613.8	1631.8	1642.1	1680.6	1693.5	1690.9	1716.6	1703.7	1729.4	1762.8	1755.1
35°	1485.3	1493.0	1500.7	1539.3	1544.4	1534.1	1559.8	1547.0	1565.0	1598.4	1593.2
37.5°	1338.8	1341.4	1341.4	1374.8	1377.4	1369.7	1385.1	1369.7	1382.5	1413.4	1410.8
40°	1176.9	1174.4	1171.8	1197.5	1194.9	1179.5	1189.8	1176.9	1194.9	1218.1	1205.2
42.5°	1012.5	1004.8	994.5	1007.3	997.1	984.2	989.3	968.8	981.6	999.6	984.2
45°	850.6	835.2	814.6	817.2	804.3	788.9	781.2	760.6	758.1	776.1	763.2
47.5°	699.0	668.1	650.1	639.9	619.3	606.5	591.0	567.9	557.6	567.9	555.1
50°	562.8	531.9	508.8	485.7	465.1	449.7	424.0	408.6	393.2	395.7	385.5
52.5°	444.6	424.0	385.5	367.5	346.9	328.9	305.8	287.8	269.8	269.8	259.5
55°	352.1	323.8	298.1	272.4	251.8	236.4	213.3	195.3	177.3	174.7	164.5
57.5°	272.4	251.8	223.6	197.9	185.0	169.6	146.5	125.9	115.6	107.9	100.2
60°	210.7	190.2	167.0	146.5	131.1	120.8	97.6	82.2	72.0	66.8	59.1
62.5°	169.6	151.6	131.1	110.5	100.2	89.9	72.0	59.1	48.8	43.7	38.5
65°	136.2	120.8	105.4	89.9	82.2	72.0	59.1	48.8	41.1	36.0	30.8
67.5°	105.4	95.1	82.2	72.0	64.2	56.5	46.3	38.5	33.4	28.3	25.7
70°	79.7	72.0	64.2	54.0	48.8	43.7	36.0	28.3	25.7	23.1	20.6
72.5°	61.7	54.0	46.3	41.1	36.0	33.4	28.3	23.1	20.6	18.0	15.4
75°	41.1	38.5	33.4	28.3	25.7	23.1	20.6	18.0	15.4	12.8	12.8
77.5°	28.3	25.7	23.1	20.6	18.0	18.0	15.4	12.8	10.3	10.3	7.7
80°	18.0	15.4	15.4	12.8	12.8	12.8	10.3	7.7	7.7	7.7	5.1
82.5°	12.8	10.3	10.3	7.7	7.7	7.7	7.7	5.1	5.1	5.1	2.6
85°	7.7	5.1	5.1	5.1	5.1	5.1	5.1	2.6	2.6	2.6	2.6
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	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°	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4
2.5°	2189.4	2212.5	2212.5	2233.1	2235.7	2230.5	2207.4	2207.4	2238.2	2256.2	2225.4
5°	2210.0	2233.1	2233.1	2253.7	2263.9	2256.2	2233.1	2235.7	2266.5	2287.1	2256.2
7.5°	2228.0	2251.1	2256.2	2279.3	2287.1	2279.3	2256.2	2261.4	2294.8	2312.8	2281.9
10°	2235.7	2258.8	2261.4	2287.1	2297.3	2287.1	2269.1	2271.6	2307.6	2320.5	2292.2
12.5°	2253.7	2276.8	2276.8	2305.0	2315.3	2307.6	2284.5	2289.6	2325.6	2338.5	2310.2
15°	2271.6	2294.8	2294.8	2325.6	2338.5	2328.2	2310.2	2312.8	2348.7	2361.6	2338.5
17.5°	2271.6	2292.2	2292.2	2325.6	2338.5	2330.7	2310.2	2312.8	2351.3	2361.6	2338.5
20°	2238.2	2261.4	2256.2	2289.6	2302.5	2294.8	2276.8	2276.8	2315.3	2325.6	2302.5
22.5°	2184.3	2204.8	2199.7	2230.5	2245.9	2235.7	2220.2	2217.7	2256.2	2266.5	2243.4
25°	2109.7	2130.3	2125.2	2156.0	2171.4	2158.6	2140.6	2143.2	2174.0	2189.4	2168.9
27.5°	2022.4	2035.2	2027.5	2058.4	2073.8	2060.9	2042.9	2045.5	2076.3	2086.6	2071.2
30°	1904.2	1914.4	1906.7	1932.4	1942.7	1935.0	1919.6	1919.6	1947.9	1960.7	1945.3
32.5°	1762.8	1770.5	1762.8	1783.4	1803.9	1788.5	1773.1	1773.1	1803.9	1814.2	1796.2
35°	1598.4	1606.1	1600.9	1621.5	1636.9	1616.4	1603.5	1598.4	1639.5	1634.3	1624.1
37.5°	1415.9	1421.1	1405.6	1441.6	1449.3	1426.2	1415.9	1410.8	1446.8	1444.2	1433.9
40°	1210.3	1215.5	1205.2	1230.9	1233.5	1215.5	1207.8	1200.1	1236.0	1233.5	1225.8
42.5°	991.9	994.5	981.6	1002.2	1007.3	989.3	986.8	976.5	1009.9	1004.8	1002.2
45°	765.8	765.8	755.5	770.9	776.1	760.6	755.5	752.9	776.1	776.1	770.9
47.5°	555.1	547.4	534.5	557.6	560.2	549.9	547.4	539.6	562.8	562.8	557.6
50°	380.3	377.8	375.2	380.3	382.9	370.0	377.8	370.0	382.9	382.9	382.9
52.5°	254.4	251.8	246.7	251.8	251.8	244.1	244.1	241.6	251.8	251.8	246.7
55°	159.3	156.8	154.2	156.8	156.8	149.0	154.2	149.0	154.2	154.2	151.6
57.5°	97.6	92.5	92.5	89.9	89.9	84.8	87.4	87.4	87.4	87.4	87.4
60°	56.5	54.0	51.4	51.4	51.4	48.8	48.8	48.8	48.8	48.8	48.8
62.5°	36.0	36.0	33.4	33.4	33.4	33.4	33.4	30.8	33.4	33.4	33.4
65°	30.8	28.3	28.3	28.3	28.3	25.7	25.7	25.7	25.7	25.7	25.7
67.5°	25.7	23.1	23.1	23.1	23.1	20.6	20.6	20.6	20.6	20.6	20.6
70°	20.6	18.0	18.0	18.0	18.0	18.0	15.4	18.0	18.0	15.4	15.4
72.5°	15.4	15.4	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
75°	10.3	10.3	10.3	10.3	10.3	7.7	7.7	7.7	7.7	7.7	7.7
77.5°	7.7	7.7	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
80°	5.1	5.1	5.1	5.1	5.1	2.6	2.6	2.6	2.6	2.6	2.6
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
85°	2.6	2.6	2.6	2.6	2.6	0.0	2.6	0.0	2.6	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: P212840

CATALOG NUMBER: LD6B50D010TE EU6B30509024 6LBSWL11

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4
2.5°	2261.4	2235.7	2222.8	2248.5	2258.8	2245.9	2235.7	2217.7	2235.7	2245.9	2258.8
5°	2292.2	2269.1	2258.8	2276.8	2292.2	2279.3	2271.6	2253.7	2271.6	2279.3	2292.2
7.5°	2320.5	2297.3	2284.5	2302.5	2320.5	2302.5	2294.8	2279.3	2294.8	2302.5	2320.5
10°	2330.7	2305.0	2294.8	2310.2	2328.2	2310.2	2299.9	2289.6	2299.9	2310.2	2328.2
12.5°	2348.7	2323.0	2310.2	2323.0	2341.0	2323.0	2312.8	2305.0	2312.8	2323.0	2341.0
15°	2374.4	2351.3	2335.9	2348.7	2371.9	2351.3	2338.5	2335.9	2338.5	2351.3	2371.9
17.5°	2374.4	2356.4	2341.0	2351.3	2374.4	2359.0	2341.0	2346.2	2341.0	2359.0	2374.4
20°	2341.0	2323.0	2310.2	2310.2	2343.6	2323.0	2307.6	2315.3	2307.6	2323.0	2343.6
22.5°	2281.9	2266.5	2253.7	2251.1	2284.5	2266.5	2245.9	2261.4	2245.9	2266.5	2284.5
25°	2204.8	2189.4	2179.1	2174.0	2207.4	2186.8	2168.9	2184.3	2168.9	2186.8	2207.4
27.5°	2104.6	2091.8	2081.5	2073.8	2104.6	2086.6	2068.6	2084.1	2068.6	2086.6	2104.6
30°	1976.1	1968.4	1958.1	1947.9	1978.7	1960.7	1942.7	1963.3	1942.7	1960.7	1978.7
32.5°	1827.1	1821.9	1809.1	1798.8	1829.6	1809.1	1796.2	1811.7	1796.2	1809.1	1829.6
35°	1654.9	1647.2	1639.5	1621.5	1654.9	1636.9	1636.9	1642.1	1636.9	1636.9	1654.9
37.5°	1462.2	1457.0	1446.8	1431.3	1459.6	1446.8	1441.6	1457.0	1441.6	1446.8	1459.6
40°	1246.3	1243.7	1236.0	1218.1	1248.9	1236.0	1228.3	1248.9	1228.3	1236.0	1248.9
42.5°	1020.2	1015.0	1007.3	1004.8	1020.2	1009.9	1017.6	1017.6	1017.6	1009.9	1020.2
45°	786.3	781.2	776.1	765.8	783.8	778.6	776.1	781.2	776.1	778.6	783.8
47.5°	570.5	565.3	560.2	552.5	570.5	562.8	562.8	567.9	562.8	562.8	570.5
50°	382.9	385.5	382.9	377.8	382.9	380.3	382.9	388.0	382.9	380.3	382.9
52.5°	254.4	254.4	249.3	246.7	251.8	249.3	257.0	251.8	257.0	249.3	251.8
55°	154.2	156.8	154.2	151.6	154.2	151.6	159.3	156.8	159.3	151.6	154.2
57.5°	87.4	87.4	89.9	87.4	92.5	89.9	89.9	89.9	89.9	89.9	92.5
60°	48.8	48.8	48.8	48.8	48.8	48.8	51.4	48.8	51.4	48.8	48.8
62.5°	33.4	33.4	33.4	30.8	33.4	30.8	33.4	33.4	33.4	30.8	33.4
65°	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
67.5°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
70°	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
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°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
77.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
80°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	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: P212840

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CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4
2.5°	2248.5	2222.8	2235.7	2261.4	2225.4	2256.2	2238.2	2207.4	2207.4	2230.5	2235.7
5°	2276.8	2258.8	2269.1	2292.2	2256.2	2287.1	2266.5	2235.7	2233.1	2256.2	2263.9
7.5°	2302.5	2284.5	2297.3	2320.5	2281.9	2312.8	2294.8	2261.4	2256.2	2279.3	2287.1
10°	2310.2	2294.8	2305.0	2330.7	2292.2	2320.5	2307.6	2271.6	2269.1	2287.1	2297.3
12.5°	2323.0	2310.2	2323.0	2348.7	2310.2	2338.5	2325.6	2289.6	2284.5	2307.6	2315.3
15°	2348.7	2335.9	2351.3	2374.4	2338.5	2361.6	2348.7	2312.8	2310.2	2328.2	2338.5
17.5°	2351.3	2341.0	2356.4	2374.4	2338.5	2361.6	2351.3	2312.8	2310.2	2330.7	2338.5
20°	2310.2	2310.2	2323.0	2341.0	2302.5	2325.6	2315.3	2276.8	2276.8	2294.8	2302.5
22.5°	2251.1	2253.7	2266.5	2281.9	2243.4	2266.5	2256.2	2217.7	2220.2	2235.7	2245.9
25°	2174.0	2179.1	2189.4	2204.8	2168.9	2189.4	2174.0	2143.2	2140.6	2158.6	2171.4
27.5°	2073.8	2081.5	2091.8	2104.6	2071.2	2086.6	2076.3	2045.5	2042.9	2060.9	2073.8
30°	1947.9	1958.1	1968.4	1976.1	1945.3	1960.7	1947.9	1919.6	1919.6	1935.0	1942.7
32.5°	1798.8	1809.1	1821.9	1827.1	1796.2	1814.2	1803.9	1773.1	1773.1	1788.5	1803.9
35°	1621.5	1639.5	1647.2	1654.9	1624.1	1634.3	1639.5	1598.4	1603.5	1616.4	1636.9
37.5°	1431.3	1446.8	1457.0	1462.2	1433.9	1444.2	1446.8	1410.8	1415.9	1426.2	1449.3
40°	1218.1	1236.0	1243.7	1246.3	1225.8	1233.5	1236.0	1200.1	1207.8	1215.5	1233.5
42.5°	1004.8	1007.3	1015.0	1020.2	1002.2	1004.8	1009.9	976.5	986.8	989.3	1007.3
45°	765.8	776.1	781.2	786.3	770.9	776.1	776.1	752.9	755.5	760.6	776.1
47.5°	552.5	560.2	565.3	570.5	557.6	562.8	562.8	539.6	547.4	549.9	560.2
50°	377.8	382.9	385.5	382.9	382.9	382.9	382.9	370.0	377.8	370.0	382.9
52.5°	246.7	249.3	254.4	254.4	246.7	251.8	251.8	241.6	244.1	244.1	251.8
55°	151.6	154.2	156.8	154.2	151.6	154.2	154.2	149.0	154.2	149.0	156.8
57.5°	87.4	89.9	87.4	87.4	87.4	87.4	87.4	87.4	87.4	84.8	89.9
60°	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	51.4
62.5°	30.8	33.4	33.4	33.4	33.4	33.4	33.4	30.8	33.4	33.4	33.4
65°	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	28.3
67.5°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	23.1
70°	15.4	15.4	15.4	15.4	15.4	15.4	18.0	18.0	15.4	18.0	18.0
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°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	10.3
77.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
80°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	5.1
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	2.6	0.0	2.6
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: P212840

CATALOG NUMBER: LD6B50D010TE EU6B30509024 6LBSWL11

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4
2.5°	2233.1	2212.5	2212.5	2189.4	2210.0	2212.5	2186.8	2179.1	2207.4	2176.6	2192.0
5°	2253.7	2233.1	2233.1	2210.0	2225.4	2225.4	2199.7	2186.8	2215.1	2184.3	2197.1
7.5°	2279.3	2256.2	2251.1	2228.0	2240.8	2243.4	2212.5	2194.5	2222.8	2186.8	2199.7
10°	2287.1	2261.4	2258.8	2235.7	2245.9	2248.5	2212.5	2197.1	2220.2	2181.7	2189.4
12.5°	2305.0	2276.8	2276.8	2253.7	2261.4	2261.4	2225.4	2204.8	2225.4	2186.8	2192.0
15°	2325.6	2294.8	2294.8	2271.6	2276.8	2279.3	2235.7	2215.1	2233.1	2192.0	2197.1
17.5°	2325.6	2292.2	2292.2	2271.6	2274.2	2271.6	2230.5	2207.4	2220.2	2176.6	2179.1
20°	2289.6	2256.2	2261.4	2238.2	2240.8	2238.2	2194.5	2171.4	2184.3	2138.0	2143.2
22.5°	2230.5	2199.7	2204.8	2184.3	2184.3	2181.7	2140.6	2117.5	2130.3	2084.1	2086.6
25°	2156.0	2125.2	2130.3	2109.7	2112.3	2112.3	2071.2	2045.5	2058.4	2017.2	2017.2
27.5°	2058.4	2027.5	2035.2	2022.4	2014.7	2017.2	1981.3	1955.6	1968.4	1929.9	1929.9
30°	1932.4	1906.7	1914.4	1904.2	1896.5	1896.5	1865.6	1839.9	1852.8	1819.4	1816.8
32.5°	1783.4	1762.8	1770.5	1762.8	1755.1	1762.8	1729.4	1703.7	1716.6	1690.9	1693.5
35°	1621.5	1600.9	1606.1	1598.4	1593.2	1598.4	1565.0	1547.0	1559.8	1534.1	1544.4
37.5°	1441.6	1405.6	1421.1	1415.9	1410.8	1413.4	1382.5	1369.7	1385.1	1369.7	1377.4
40°	1230.9	1205.2	1215.5	1210.3	1205.2	1218.1	1194.9	1176.9	1189.8	1179.5	1194.9
42.5°	1002.2	981.6	994.5	991.9	984.2	999.6	981.6	968.8	989.3	984.2	997.1
45°	770.9	755.5	765.8	765.8	763.2	776.1	758.1	760.6	781.2	788.9	804.3
47.5°	557.6	534.5	547.4	555.1	555.1	567.9	557.6	567.9	591.0	606.5	619.3
50°	380.3	375.2	377.8	380.3	385.5	395.7	393.2	408.6	424.0	449.7	465.1
52.5°	251.8	246.7	251.8	254.4	259.5	269.8	269.8	287.8	305.8	328.9	346.9
55°	156.8	154.2	156.8	159.3	164.5	174.7	177.3	195.3	213.3	236.4	251.8
57.5°	89.9	92.5	92.5	97.6	100.2	107.9	115.6	125.9	146.5	169.6	185.0
60°	51.4	51.4	54.0	56.5	59.1	66.8	72.0	82.2	97.6	120.8	131.1
62.5°	33.4	33.4	36.0	36.0	38.5	43.7	48.8	59.1	72.0	89.9	100.2
65°	28.3	28.3	28.3	30.8	30.8	36.0	41.1	48.8	59.1	72.0	82.2
67.5°	23.1	23.1	23.1	25.7	25.7	28.3	33.4	38.5	46.3	56.5	64.2
70°	18.0	18.0	18.0	20.6	20.6	23.1	25.7	28.3	36.0	43.7	48.8
72.5°	12.8	12.8	15.4	15.4	15.4	18.0	20.6	23.1	28.3	33.4	36.0
75°	10.3	10.3	10.3	10.3	12.8	12.8	15.4	18.0	20.6	23.1	25.7
77.5°	5.1	5.1	7.7	7.7	7.7	10.3	10.3	12.8	15.4	18.0	18.0
80°	5.1	5.1	5.1	5.1	5.1	7.7	7.7	7.7	10.3	12.8	12.8
82.5°	2.6	2.6	2.6	2.6	2.6	5.1	5.1	5.1	7.7	7.7	7.7
85°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	5.1	5.1	5.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6	2.6	2.6	2.6
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: P212840

CATALOG NUMBER: LD6B50D010TE EU6B30509024 6LBSWL11

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4	2207.4
2.5°	2174.0	2181.7	2181.7	2174.0	2153.4	2171.4	2189.4	2171.4	2194.5	2153.4	2153.4
5°	2174.0	2179.1	2176.6	2166.3	2145.7	2161.1	2174.0	2156.0	2174.0	2135.4	2132.9
7.5°	2179.1	2174.0	2168.9	2156.0	2130.3	2140.6	2153.4	2132.9	2150.9	2109.7	2104.6
10°	2168.9	2161.1	2150.9	2132.9	2104.6	2112.3	2120.0	2102.0	2114.9	2073.8	2071.2
12.5°	2168.9	2156.0	2140.6	2120.0	2089.2	2094.3	2102.0	2078.9	2089.2	2050.6	2045.5
15°	2174.0	2150.9	2132.9	2109.7	2076.3	2078.9	2084.1	2058.4	2068.6	2027.5	2024.9
17.5°	2156.0	2130.3	2112.3	2084.1	2048.1	2050.6	2050.6	2024.9	2032.7	1991.5	1989.0
20°	2117.5	2086.6	2066.1	2040.4	2001.8	2001.8	2001.8	1976.1	1981.3	1945.3	1940.1
22.5°	2063.5	2030.1	2009.5	1983.8	1947.9	1945.3	1942.7	1922.2	1922.2	1888.8	1881.0
25°	1991.5	1960.7	1940.1	1917.0	1881.0	1875.9	1875.9	1857.9	1855.3	1824.5	1819.4
27.5°	1909.3	1873.3	1855.3	1834.8	1801.4	1796.2	1793.7	1783.4	1778.3	1744.8	1742.3
30°	1798.8	1768.0	1752.6	1734.6	1703.7	1698.6	1696.0	1685.7	1683.2	1649.8	1649.8
32.5°	1680.6	1642.1	1631.8	1613.8	1590.7	1588.1	1590.7	1577.8	1567.5	1544.4	1539.3
35°	1539.3	1500.7	1493.0	1485.3	1467.3	1462.2	1459.6	1457.0	1444.2	1428.8	1421.1
37.5°	1374.8	1341.4	1341.4	1338.8	1326.0	1326.0	1326.0	1320.8	1308.0	1302.9	1287.4
40°	1197.5	1171.8	1174.4	1176.9	1171.8	1174.4	1176.9	1171.8	1161.5	1156.4	1143.5
42.5°	1007.3	994.5	1004.8	1012.5	1012.5	1020.2	1025.3	1025.3	1012.5	1009.9	999.6
45°	817.2	814.6	835.2	850.6	855.7	868.6	876.3	871.1	871.1	871.1	860.9
47.5°	639.9	650.1	668.1	699.0	709.2	724.7	729.8	737.5	734.9	737.5	729.8
50°	485.7	508.8	531.9	562.8	578.2	596.2	603.9	614.2	614.2	616.7	611.6
52.5°	367.5	385.5	424.0	444.6	462.6	480.5	490.8	501.1	503.7	503.7	498.5
55°	272.4	298.1	323.8	352.1	367.5	385.5	393.2	403.4	403.4	408.6	403.4
57.5°	197.9	223.6	251.8	272.4	290.4	303.2	310.9	318.6	323.8	323.8	321.2
60°	146.5	167.0	190.2	210.7	226.1	239.0	244.1	251.8	254.4	254.4	249.3
62.5°	110.5	131.1	151.6	169.6	179.9	190.2	195.3	200.4	200.4	200.4	197.9
65°	89.9	105.4	120.8	136.2	146.5	154.2	156.8	161.9	159.3	161.9	159.3
67.5°	72.0	82.2	95.1	105.4	113.1	118.2	120.8	125.9	123.3	125.9	123.3
70°	54.0	64.2	72.0	79.7	84.8	89.9	92.5	95.1	92.5	95.1	92.5
72.5°	41.1	46.3	54.0	61.7	64.2	66.8	69.4	69.4	69.4	72.0	69.4
75°	28.3	33.4	38.5	41.1	46.3	48.8	48.8	51.4	51.4	51.4	51.4
77.5°	20.6	23.1	25.7	28.3	30.8	33.4	33.4	36.0	36.0	36.0	36.0
80°	12.8	15.4	15.4	18.0	20.6	20.6	23.1	23.1	23.1	23.1	23.1
82.5°	7.7	10.3	10.3	12.8	12.8	12.8	15.4	15.4	15.4	15.4	15.4
85°	5.1	5.1	5.1	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	5.1	5.1	2.6	2.6
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: P212840

CATALOG NUMBER: LD6B50D010TE EU6B30509024 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	2207.4	2207.4	2207.4	2207.4
2.5°	2174.0	2161.1	2181.7	2150.9
5°	2150.9	2138.0	2163.7	2125.2
7.5°	2122.6	2109.7	2132.9	2094.3
10°	2086.6	2073.8	2094.3	2053.2
12.5°	2055.8	2042.9	2066.1	2027.5
15°	2032.7	2019.8	2040.4	2004.4
17.5°	1996.7	1981.3	2004.4	1965.8
20°	1945.3	1935.0	1953.0	1914.4
22.5°	1886.2	1875.9	1896.5	1857.9
25°	1824.5	1811.7	1832.2	1793.7
27.5°	1744.8	1734.6	1755.1	1716.6
30°	1649.8	1639.5	1660.0	1624.1
32.5°	1541.8	1531.6	1547.0	1516.1
35°	1418.5	1410.8	1426.2	1392.8
37.5°	1284.9	1277.2	1292.6	1259.2
40°	1141.0	1133.3	1146.1	1130.7
42.5°	999.6	991.9	1004.8	991.9
45°	860.9	855.7	868.6	855.7
47.5°	732.4	727.2	740.1	727.2
50°	609.0	611.6	616.7	611.6
52.5°	498.5	498.5	506.2	498.5
55°	403.4	406.0	408.6	403.4
57.5°	321.2	321.2	323.8	321.2
60°	249.3	251.8	251.8	249.3
62.5°	197.9	197.9	197.9	197.9
65°	156.8	156.8	159.3	156.8
67.5°	123.3	120.8	123.3	120.8
70°	92.5	92.5	92.5	92.5
72.5°	72.0	72.0	69.4	69.4
75°	51.4	54.0	51.4	51.4
77.5°	36.0	36.0	36.0	36.0
80°	23.1	23.1	23.1	23.1
82.5°	15.4	15.4	15.4	15.4
85°	10.3	7.7	7.7	7.7
87.5°	5.1	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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





















(END OF REPORT)