

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: P212829

Luminaire Tested: **LE\_6B40D010 EC6B30509030 6LBSWL11**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212829  
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: PORTFOLIO  
Catalog Number: LE\_6B40D010 EC6B30509030 6LBSWL11  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4261.5 lumens  
Efficiency: N/A  
Efficacy: 99.1 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

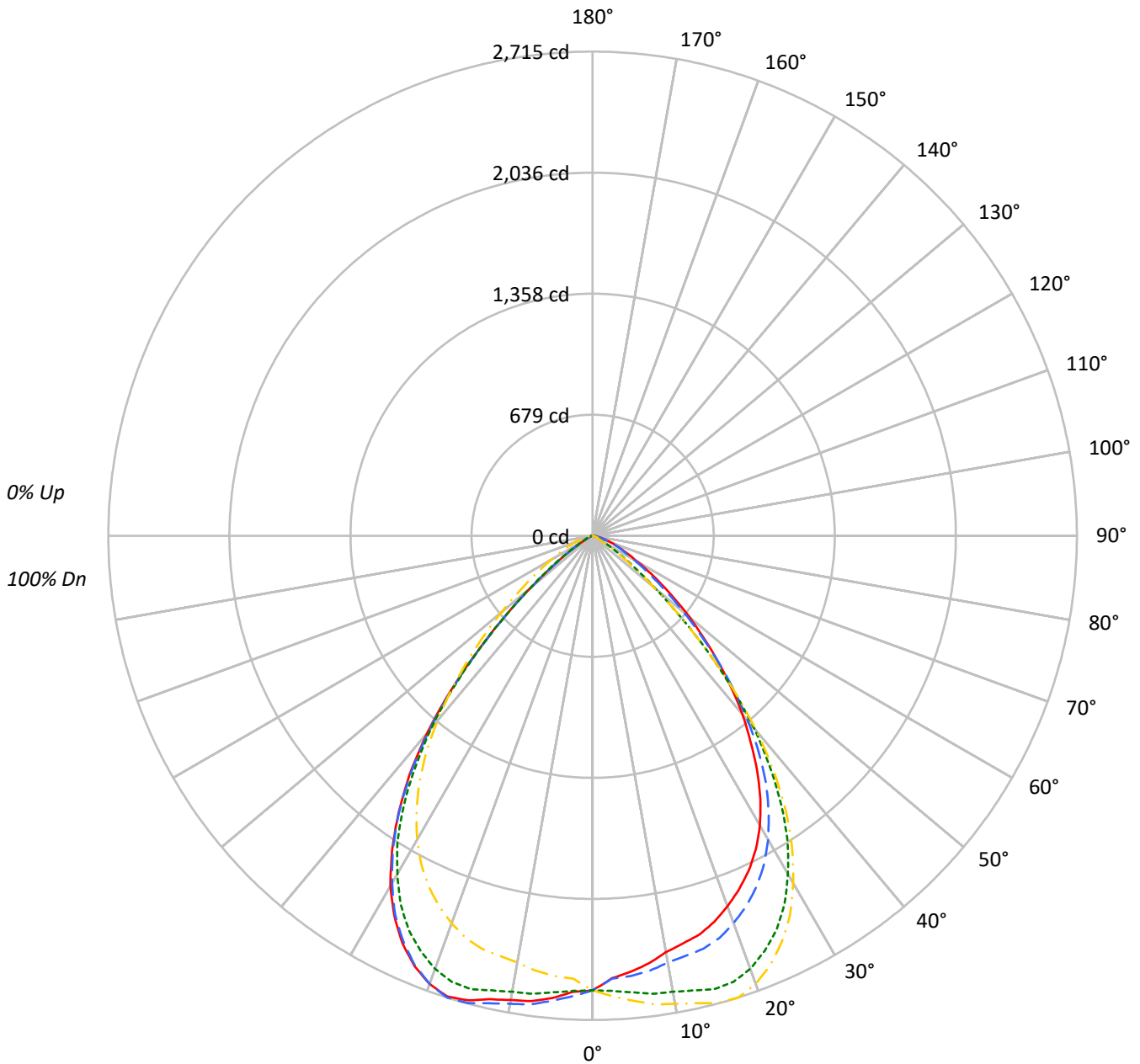
Input Watts (W): 43  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	139726	139726	139726	139726
5°	135037	141404	143198	141404
10°	131973	144520	147169	144520
15°	131351	149371	153071	149371
20°	128957	150770	155962	150770
25°	125275	147529	152555	147529
30°	118702	138616	143497	138616
35°	107626	123513	126886	123513
40°	93425	100653	103193	100653
45°	76605	69472	69930	69472
50°	60228	38975	38208	38975
55°	44529	19287	17299	19287
60°	31565	8453	6184	8453
65°	23479	5383	3840	5383
70°	17134	4296	2853	4296
75°	12581	3156	1885	3156
80°	8461	2810	947	2810
85°	5598	1887	1887	1887



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.0	5.7
10°-20°	722.7	17.0
20°-30°	1078.4	25.3
30°-40°	1108.0	26.0
40°-50°	717.5	16.8
50°-60°	266.8	6.3
60°-70°	87.6	2.1
70°-80°	30.9	0.7
80°-90°	5.6	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°	2045.1	48.0
0°-40°	3153.1	74.0
0°-60°	4137.5	97.1
0°-90°	4261.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4261.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2549	2549	2549	2549	2549	
5°	2454	2570	2602	2570	2454	232
15°	2314	2632	2697	2632	2314	651
25°	2071	2439	2522	2439	2071	949
35°	1608	1846	1896	1846	1608	999
45°	988	896	902	896	988	764
55°	466	202	181	202	466	425
65°	181	42	30	42	181	184
75°	59	15	9	15	59	65
85°	9	3	3	3	9	12
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°	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8
2.5°	2483.5	2519.1	2495.4	2510.2	2486.5	2486.5	2534.0	2507.2	2528.0	2507.2	2486.5
5°	2453.9	2498.4	2468.8	2483.5	2462.8	2465.8	2510.2	2489.5	2510.2	2495.4	2477.6
7.5°	2418.2	2462.8	2436.0	2450.9	2430.1	2436.0	2483.5	2462.8	2486.5	2471.6	2459.8
10°	2370.8	2418.2	2394.5	2409.4	2391.5	2394.5	2442.0	2427.1	2447.9	2439.0	2430.1
12.5°	2341.1	2385.6	2358.9	2373.8	2361.9	2367.9	2412.4	2400.5	2427.1	2418.2	2412.4
15°	2314.4	2356.0	2332.2	2347.0	2338.1	2341.1	2388.6	2376.8	2406.4	2400.5	2397.5
17.5°	2269.9	2314.4	2287.8	2305.5	2296.6	2299.6	2347.0	2338.1	2367.9	2367.9	2364.9
20°	2210.5	2255.0	2234.2	2246.1	2240.2	2246.1	2287.8	2281.8	2311.4	2311.4	2311.4
22.5°	2145.2	2189.8	2166.0	2177.9	2172.0	2180.9	2219.5	2219.5	2243.2	2246.1	2249.1
25°	2071.1	2115.6	2091.9	2106.8	2100.8	2106.8	2142.2	2145.2	2166.0	2166.0	2172.0
27.5°	1982.1	2026.6	2002.9	2014.8	2011.8	2014.8	2053.2	2059.2	2071.1	2074.0	2080.0
30°	1875.2	1916.8	1893.1	1904.9	1904.9	1904.9	1943.5	1946.5	1958.4	1961.2	1967.2
32.5°	1750.6	1786.2	1768.5	1780.2	1777.4	1783.2	1810.0	1821.9	1836.6	1833.8	1836.6
35°	1608.2	1646.8	1629.0	1637.9	1640.9	1649.8	1667.5	1682.4	1685.4	1688.4	1694.2
37.5°	1453.9	1492.5	1474.8	1483.6	1486.5	1504.4	1510.2	1525.1	1531.1	1531.1	1531.1
40°	1305.5	1323.4	1308.5	1317.4	1320.4	1335.2	1341.1	1353.0	1359.0	1356.0	1353.0
42.5°	1145.4	1160.1	1145.4	1154.2	1154.2	1166.1	1169.1	1183.9	1183.9	1178.0	1169.1
45°	988.1	1002.9	988.1	994.0	994.0	1005.9	1005.9	1005.9	1011.8	1002.9	988.1
47.5°	839.8	854.5	839.8	845.6	842.6	851.6	848.6	851.6	842.6	836.8	819.0
50°	706.2	712.1	706.2	703.2	706.2	712.1	709.1	709.1	697.2	688.4	667.6
52.5°	575.6	584.5	575.6	575.6	575.6	581.6	581.6	578.6	566.8	554.9	534.1
55°	465.9	471.8	468.9	465.9	465.9	471.8	465.9	465.9	454.0	445.1	424.2
57.5°	370.9	373.9	370.9	370.9	370.9	373.9	373.9	367.9	359.0	350.1	335.2
60°	287.9	290.8	290.8	287.9	287.9	293.8	293.8	290.8	281.9	276.0	261.1
62.5°	228.5	228.5	228.5	228.5	228.5	231.5	231.5	231.5	225.5	219.6	207.8
65°	181.0	184.0	181.0	181.0	184.0	186.9	184.0	186.9	181.0	178.0	169.1
67.5°	139.5	142.4	139.5	142.4	142.4	145.4	142.4	145.4	139.5	136.5	130.5
70°	106.9	106.9	106.9	106.9	106.9	109.8	106.9	109.8	106.9	103.9	97.9
72.5°	80.1	80.1	83.1	83.1	80.1	83.1	80.1	80.1	80.1	77.1	74.1
75°	59.4	59.4	62.2	59.4	59.4	59.4	59.4	59.4	56.4	56.4	53.4
77.5°	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	38.6	38.6	35.6
80°	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	23.8	23.8
82.5°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	14.9	14.9
85°	8.9	8.9	8.9	11.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
87.5°	3.0	3.0	3.0	5.9	3.0	3.0	5.9	5.9	3.0	3.0	3.0
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8
2.5°	2510.2	2519.1	2519.1	2510.2	2531.0	2513.2	2548.8	2516.1	2525.1	2554.8	2551.8
5°	2501.4	2513.2	2516.1	2510.2	2537.0	2522.1	2557.8	2525.1	2539.9	2569.6	2569.6
7.5°	2489.5	2504.2	2510.2	2516.1	2539.9	2525.1	2566.6	2534.0	2554.8	2590.4	2587.4
10°	2462.8	2483.5	2495.4	2504.2	2528.0	2519.1	2563.6	2537.0	2554.8	2596.2	2593.4
12.5°	2447.9	2471.6	2489.5	2504.2	2531.0	2525.1	2569.6	2545.9	2569.6	2611.1	2611.1
15°	2436.0	2462.8	2483.5	2510.2	2537.0	2531.0	2578.5	2557.8	2581.5	2631.9	2628.9
17.5°	2406.4	2439.0	2459.8	2489.5	2516.1	2513.2	2563.6	2548.8	2575.5	2623.0	2626.0
20°	2356.0	2385.6	2409.4	2445.0	2474.6	2468.8	2522.1	2507.2	2534.0	2584.4	2587.4
22.5°	2290.6	2320.4	2344.1	2382.6	2409.4	2406.4	2459.8	2445.0	2471.6	2519.1	2522.1
25°	2213.5	2240.2	2264.0	2299.6	2329.2	2329.2	2376.8	2361.9	2391.5	2439.0	2439.0
27.5°	2118.6	2142.2	2163.1	2204.6	2228.4	2228.4	2272.9	2258.0	2287.8	2329.2	2326.2
30°	2002.9	2023.6	2041.4	2077.0	2097.8	2100.8	2139.4	2124.5	2154.1	2189.8	2189.8
32.5°	1863.4	1884.1	1896.0	1940.5	1955.4	1952.4	1982.1	1967.2	1996.9	2035.5	2026.6
35°	1715.0	1723.9	1732.9	1777.4	1783.2	1771.4	1801.1	1786.2	1807.0	1845.6	1839.6
37.5°	1545.9	1548.9	1548.9	1587.5	1590.4	1581.5	1599.2	1581.5	1596.4	1632.0	1629.0
40°	1359.0	1356.0	1353.0	1382.8	1379.8	1361.9	1373.8	1359.0	1379.8	1406.5	1391.6
42.5°	1169.1	1160.1	1148.2	1163.1	1151.2	1136.4	1142.4	1118.6	1133.5	1154.2	1136.4
45°	982.1	964.4	940.6	943.6	928.8	910.9	902.0	878.2	875.4	896.1	881.2
47.5°	807.1	771.5	750.8	738.9	715.1	700.2	682.5	655.8	643.9	655.8	640.9
50°	649.9	614.2	587.5	560.8	537.0	519.2	489.6	471.8	454.0	457.0	445.1
52.5°	513.4	489.6	445.1	424.2	400.6	379.8	353.1	332.4	311.5	311.5	299.6
55°	406.5	373.9	344.2	314.5	290.8	273.0	246.2	225.5	204.8	201.8	189.9
57.5°	314.5	290.8	258.1	228.5	213.6	195.9	169.1	145.4	133.5	124.6	115.8
60°	243.2	219.6	192.9	169.1	151.4	139.5	112.8	95.0	83.1	77.1	68.2
62.5°	195.9	175.1	151.4	127.6	115.8	103.9	83.1	68.2	56.4	50.5	44.5
65°	157.2	139.5	121.6	103.9	95.0	83.1	68.2	56.4	47.5	41.5	35.6
67.5°	121.6	109.8	95.0	83.1	74.1	65.2	53.4	44.5	38.6	32.6	29.6
70°	92.0	83.1	74.1	62.2	56.4	50.5	41.5	32.6	29.6	26.8	23.8
72.5°	71.2	62.2	53.4	47.5	41.5	38.6	32.6	26.8	23.8	20.8	17.8
75°	47.5	44.5	38.6	32.6	29.6	26.8	23.8	20.8	17.8	14.9	14.9
77.5°	32.6	29.6	26.8	23.8	20.8	20.8	17.8	14.9	11.9	11.9	8.9
80°	20.8	17.8	17.8	14.9	14.9	14.9	11.9	8.9	8.9	8.9	5.9
82.5°	14.9	11.9	11.9	8.9	8.9	8.9	8.9	5.9	5.9	5.9	3.0
85°	8.9	5.9	5.9	5.9	5.9	5.9	5.9	3.0	3.0	3.0	3.0
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	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°	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8
2.5°	2528.0	2554.8	2554.8	2578.5	2581.5	2575.5	2548.8	2548.8	2584.4	2605.1	2569.6
5°	2551.8	2578.5	2578.5	2602.2	2614.1	2605.1	2578.5	2581.5	2617.0	2640.8	2605.1
7.5°	2572.5	2599.2	2605.1	2631.9	2640.8	2631.9	2605.1	2611.1	2649.8	2670.5	2634.9
10°	2581.5	2608.1	2611.1	2640.8	2652.6	2640.8	2620.0	2623.0	2664.5	2679.4	2646.8
12.5°	2602.2	2628.9	2628.9	2661.6	2673.4	2664.5	2637.9	2643.8	2685.2	2700.1	2667.5
15°	2623.0	2649.8	2649.8	2685.2	2700.1	2688.2	2667.5	2670.5	2712.0	2726.9	2700.1
17.5°	2623.0	2646.8	2646.8	2685.2	2700.1	2691.2	2667.5	2670.5	2715.0	2726.9	2700.1
20°	2584.4	2611.1	2605.1	2643.8	2658.6	2649.8	2628.9	2628.9	2673.4	2685.2	2658.6
22.5°	2522.1	2545.9	2539.9	2575.5	2593.4	2581.5	2563.6	2560.6	2605.1	2617.0	2590.4
25°	2436.0	2459.8	2453.9	2489.5	2507.2	2492.4	2471.6	2474.6	2510.2	2528.0	2504.2
27.5°	2335.1	2350.0	2341.1	2376.8	2394.5	2379.6	2358.9	2361.9	2397.5	2409.4	2391.5
30°	2198.6	2210.5	2201.6	2231.4	2243.2	2234.2	2216.5	2216.5	2249.1	2264.0	2246.1
32.5°	2035.5	2044.4	2035.5	2059.2	2083.0	2065.1	2047.4	2047.4	2083.0	2094.9	2074.0
35°	1845.6	1854.5	1848.5	1872.2	1890.1	1866.4	1851.5	1845.6	1893.1	1887.1	1875.2
37.5°	1634.9	1640.9	1623.0	1664.6	1673.5	1646.8	1634.9	1629.0	1670.5	1667.5	1655.8
40°	1397.5	1403.5	1391.6	1421.2	1424.2	1403.5	1394.6	1385.6	1427.2	1424.2	1415.4
42.5°	1145.4	1148.2	1133.5	1157.2	1163.1	1142.4	1139.4	1127.5	1166.1	1160.1	1157.2
45°	884.2	884.2	872.4	890.1	896.1	878.2	872.4	869.4	896.1	896.1	890.1
47.5°	640.9	632.0	617.1	643.9	646.9	635.0	632.0	623.1	649.9	649.9	643.9
50°	439.1	436.1	433.2	439.1	442.1	427.2	436.1	427.2	442.1	442.1	442.1
52.5°	293.8	290.8	284.9	290.8	290.8	281.9	281.9	278.9	290.8	290.8	284.9
55°	184.0	181.0	178.0	181.0	181.0	172.1	178.0	172.1	178.0	178.0	175.1
57.5°	112.8	106.9	106.9	103.9	103.9	97.9	100.9	100.9	100.9	100.9	100.9
60°	65.2	62.2	59.4	59.4	59.4	56.4	56.4	56.4	56.4	56.4	56.4
62.5°	41.5	41.5	38.6	38.6	38.6	38.6	38.6	35.6	38.6	38.6	38.6
65°	35.6	32.6	32.6	32.6	32.6	29.6	29.6	29.6	29.6	29.6	29.6
67.5°	29.6	26.8	26.8	26.8	26.8	23.8	23.8	23.8	23.8	23.8	23.8
70°	23.8	20.8	20.8	20.8	20.8	20.8	17.8	20.8	20.8	17.8	17.8
72.5°	17.8	17.8	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
75°	11.9	11.9	11.9	11.9	11.9	8.9	8.9	8.9	8.9	8.9	8.9
77.5°	8.9	8.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
80°	5.9	5.9	5.9	5.9	5.9	3.0	3.0	3.0	3.0	3.0	3.0
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	3.0	3.0	3.0	3.0	3.0	0.0	3.0	0.0	3.0	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: P212829

CATALOG NUMBER: LE\_6B40D010 EC6B30509030 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8
2.5°	2611.1	2581.5	2566.6	2596.2	2608.1	2593.4	2581.5	2560.6	2581.5	2593.4	2608.1
5°	2646.8	2620.0	2608.1	2628.9	2646.8	2631.9	2623.0	2602.2	2623.0	2631.9	2646.8
7.5°	2679.4	2652.6	2637.9	2658.6	2679.4	2658.6	2649.8	2631.9	2649.8	2658.6	2679.4
10°	2691.2	2661.6	2649.8	2667.5	2688.2	2667.5	2655.6	2643.8	2655.6	2667.5	2688.2
12.5°	2712.0	2682.4	2667.5	2682.4	2703.1	2682.4	2670.5	2661.6	2670.5	2682.4	2703.1
15°	2741.6	2715.0	2697.1	2712.0	2738.8	2715.0	2700.1	2697.1	2700.1	2715.0	2738.8
17.5°	2741.6	2720.9	2703.1	2715.0	2741.6	2723.9	2703.1	2709.0	2703.1	2723.9	2741.6
20°	2703.1	2682.4	2667.5	2667.5	2706.1	2682.4	2664.5	2673.4	2664.5	2682.4	2706.1
22.5°	2634.9	2617.0	2602.2	2599.2	2637.9	2617.0	2593.4	2611.1	2593.4	2617.0	2637.9
25°	2545.9	2528.0	2516.1	2510.2	2548.8	2525.1	2504.2	2522.1	2504.2	2525.1	2548.8
27.5°	2430.1	2415.2	2403.4	2394.5	2430.1	2409.4	2388.6	2406.4	2388.6	2409.4	2430.1
30°	2281.8	2272.9	2261.0	2249.1	2284.8	2264.0	2243.2	2266.9	2243.2	2264.0	2284.8
32.5°	2109.6	2103.8	2088.9	2077.0	2112.6	2088.9	2074.0	2091.9	2074.0	2088.9	2112.6
35°	1910.9	1902.0	1893.1	1872.2	1910.9	1890.1	1890.1	1896.0	1890.1	1890.1	1910.9
37.5°	1688.4	1682.4	1670.5	1652.8	1685.4	1670.5	1664.6	1682.4	1664.6	1670.5	1685.4
40°	1439.1	1436.1	1427.2	1406.5	1442.0	1427.2	1418.4	1442.0	1418.4	1427.2	1442.0
42.5°	1178.0	1172.0	1163.1	1160.1	1178.0	1166.1	1175.0	1175.0	1175.0	1166.1	1178.0
45°	908.0	902.0	896.1	884.2	905.0	899.0	896.1	902.0	896.1	899.0	905.0
47.5°	658.8	652.8	646.9	638.0	658.8	649.9	649.9	655.8	649.9	649.9	658.8
50°	442.1	445.1	442.1	436.1	442.1	439.1	442.1	448.0	442.1	439.1	442.1
52.5°	293.8	293.8	287.9	284.9	290.8	287.9	296.8	290.8	296.8	287.9	290.8
55°	178.0	181.0	178.0	175.1	178.0	175.1	184.0	181.0	184.0	175.1	178.0
57.5°	100.9	100.9	103.9	100.9	106.9	103.9	103.9	103.9	103.9	103.9	106.9
60°	56.4	56.4	56.4	56.4	56.4	56.4	59.4	56.4	59.4	56.4	56.4
62.5°	38.6	38.6	38.6	35.6	38.6	35.6	38.6	38.6	38.6	35.6	38.6
65°	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
67.5°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
70°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
72.5°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
75°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
77.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	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: P212829

CATALOG NUMBER: LE\_6B40D010 EC6B30509030 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8
2.5°	2596.2	2566.6	2581.5	2611.1	2569.6	2605.1	2584.4	2548.8	2548.8	2575.5	2581.5
5°	2628.9	2608.1	2620.0	2646.8	2605.1	2640.8	2617.0	2581.5	2578.5	2605.1	2614.1
7.5°	2658.6	2637.9	2652.6	2679.4	2634.9	2670.5	2649.8	2611.1	2605.1	2631.9	2640.8
10°	2667.5	2649.8	2661.6	2691.2	2646.8	2679.4	2664.5	2623.0	2620.0	2640.8	2652.6
12.5°	2682.4	2667.5	2682.4	2712.0	2667.5	2700.1	2685.2	2643.8	2637.9	2664.5	2673.4
15°	2712.0	2697.1	2715.0	2741.6	2700.1	2726.9	2712.0	2670.5	2667.5	2688.2	2700.1
17.5°	2715.0	2703.1	2720.9	2741.6	2700.1	2726.9	2715.0	2670.5	2667.5	2691.2	2700.1
20°	2667.5	2667.5	2682.4	2703.1	2658.6	2685.2	2673.4	2628.9	2628.9	2649.8	2658.6
22.5°	2599.2	2602.2	2617.0	2634.9	2590.4	2617.0	2605.1	2560.6	2563.6	2581.5	2593.4
25°	2510.2	2516.1	2528.0	2545.9	2504.2	2528.0	2510.2	2474.6	2471.6	2492.4	2507.2
27.5°	2394.5	2403.4	2415.2	2430.1	2391.5	2409.4	2397.5	2361.9	2358.9	2379.6	2394.5
30°	2249.1	2261.0	2272.9	2281.8	2246.1	2264.0	2249.1	2216.5	2216.5	2234.2	2243.2
32.5°	2077.0	2088.9	2103.8	2109.6	2074.0	2094.9	2083.0	2047.4	2047.4	2065.1	2083.0
35°	1872.2	1893.1	1902.0	1910.9	1875.2	1887.1	1893.1	1845.6	1851.5	1866.4	1890.1
37.5°	1652.8	1670.5	1682.4	1688.4	1655.8	1667.5	1670.5	1629.0	1634.9	1646.8	1673.5
40°	1406.5	1427.2	1436.1	1439.1	1415.4	1424.2	1427.2	1385.6	1394.6	1403.5	1424.2
42.5°	1160.1	1163.1	1172.0	1178.0	1157.2	1160.1	1166.1	1127.5	1139.4	1142.4	1163.1
45°	884.2	896.1	902.0	908.0	890.1	896.1	896.1	869.4	872.4	878.2	896.1
47.5°	638.0	646.9	652.8	658.8	643.9	649.9	649.9	623.1	632.0	635.0	646.9
50°	436.1	442.1	445.1	442.1	442.1	442.1	442.1	427.2	436.1	427.2	442.1
52.5°	284.9	287.9	293.8	293.8	284.9	290.8	290.8	278.9	281.9	281.9	290.8
55°	175.1	178.0	181.0	178.0	175.1	178.0	178.0	172.1	178.0	172.1	181.0
57.5°	100.9	103.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	97.9	103.9
60°	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	59.4
62.5°	35.6	38.6	38.6	38.6	38.6	38.6	38.6	35.6	38.6	38.6	38.6
65°	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	32.6
67.5°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	26.8
70°	17.8	17.8	17.8	17.8	17.8	17.8	20.8	20.8	17.8	20.8	20.8
72.5°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
75°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	11.9
77.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	5.9
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	3.0	0.0	3.0
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: P212829

CATALOG NUMBER: LE\_6B40D010 EC6B30509030 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8
2.5°	2578.5	2554.8	2554.8	2528.0	2551.8	2554.8	2525.1	2516.1	2548.8	2513.2	2531.0
5°	2602.2	2578.5	2578.5	2551.8	2569.6	2569.6	2539.9	2525.1	2557.8	2522.1	2537.0
7.5°	2631.9	2605.1	2599.2	2572.5	2587.4	2590.4	2554.8	2534.0	2566.6	2525.1	2539.9
10°	2640.8	2611.1	2608.1	2581.5	2593.4	2596.2	2554.8	2537.0	2563.6	2519.1	2528.0
12.5°	2661.6	2628.9	2628.9	2602.2	2611.1	2611.1	2569.6	2545.9	2569.6	2525.1	2531.0
15°	2685.2	2649.8	2649.8	2623.0	2628.9	2631.9	2581.5	2557.8	2578.5	2531.0	2537.0
17.5°	2685.2	2646.8	2646.8	2623.0	2626.0	2623.0	2575.5	2548.8	2563.6	2513.2	2516.1
20°	2643.8	2605.1	2611.1	2584.4	2587.4	2584.4	2534.0	2507.2	2522.1	2468.8	2474.6
22.5°	2575.5	2539.9	2545.9	2522.1	2522.1	2519.1	2471.6	2445.0	2459.8	2406.4	2409.4
25°	2489.5	2453.9	2459.8	2436.0	2439.0	2439.0	2391.5	2361.9	2376.8	2329.2	2329.2
27.5°	2376.8	2341.1	2350.0	2335.1	2326.2	2329.2	2287.8	2258.0	2272.9	2228.4	2228.4
30°	2231.4	2201.6	2210.5	2198.6	2189.8	2189.8	2154.1	2124.5	2139.4	2100.8	2097.8
32.5°	2059.2	2035.5	2044.4	2035.5	2026.6	2035.5	1996.9	1967.2	1982.1	1952.4	1955.4
35°	1872.2	1848.5	1854.5	1845.6	1839.6	1845.6	1807.0	1786.2	1801.1	1771.4	1783.2
37.5°	1664.6	1623.0	1640.9	1634.9	1629.0	1632.0	1596.4	1581.5	1599.2	1581.5	1590.4
40°	1421.2	1391.6	1403.5	1397.5	1391.6	1406.5	1379.8	1359.0	1373.8	1361.9	1379.8
42.5°	1157.2	1133.5	1148.2	1145.4	1136.4	1154.2	1133.5	1118.6	1142.4	1136.4	1151.2
45°	890.1	872.4	884.2	884.2	881.2	896.1	875.4	878.2	902.0	910.9	928.8
47.5°	643.9	617.1	632.0	640.9	640.9	655.8	643.9	655.8	682.5	700.2	715.1
50°	439.1	433.2	436.1	439.1	445.1	457.0	454.0	471.8	489.6	519.2	537.0
52.5°	290.8	284.9	290.8	293.8	299.6	311.5	311.5	332.4	353.1	379.8	400.6
55°	181.0	178.0	181.0	184.0	189.9	201.8	204.8	225.5	246.2	273.0	290.8
57.5°	103.9	106.9	106.9	112.8	115.8	124.6	133.5	145.4	169.1	195.9	213.6
60°	59.4	59.4	62.2	65.2	68.2	77.1	83.1	95.0	112.8	139.5	151.4
62.5°	38.6	38.6	41.5	41.5	44.5	50.5	56.4	68.2	83.1	103.9	115.8
65°	32.6	32.6	32.6	35.6	35.6	41.5	47.5	56.4	68.2	83.1	95.0
67.5°	26.8	26.8	26.8	29.6	29.6	32.6	38.6	44.5	53.4	65.2	74.1
70°	20.8	20.8	20.8	23.8	23.8	26.8	29.6	32.6	41.5	50.5	56.4
72.5°	14.9	14.9	17.8	17.8	17.8	20.8	23.8	26.8	32.6	38.6	41.5
75°	11.9	11.9	11.9	11.9	14.9	14.9	17.8	20.8	23.8	26.8	29.6
77.5°	5.9	5.9	8.9	8.9	8.9	11.9	11.9	14.9	17.8	20.8	20.8
80°	5.9	5.9	5.9	5.9	5.9	8.9	8.9	8.9	11.9	14.9	14.9
82.5°	3.0	3.0	3.0	3.0	3.0	5.9	5.9	5.9	8.9	8.9	8.9
85°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	5.9	5.9	5.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	3.0	3.0
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: P212829

CATALOG NUMBER: LE\_6B40D010 EC6B30509030 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8	2548.8
2.5°	2510.2	2519.1	2519.1	2510.2	2486.5	2507.2	2528.0	2507.2	2534.0	2486.5	2486.5
5°	2510.2	2516.1	2513.2	2501.4	2477.6	2495.4	2510.2	2489.5	2510.2	2465.8	2462.8
7.5°	2516.1	2510.2	2504.2	2489.5	2459.8	2471.6	2486.5	2462.8	2483.5	2436.0	2430.1
10°	2504.2	2495.4	2483.5	2462.8	2430.1	2439.0	2447.9	2427.1	2442.0	2394.5	2391.5
12.5°	2504.2	2489.5	2471.6	2447.9	2412.4	2418.2	2427.1	2400.5	2412.4	2367.9	2361.9
15°	2510.2	2483.5	2462.8	2436.0	2397.5	2400.5	2406.4	2376.8	2388.6	2341.1	2338.1
17.5°	2489.5	2459.8	2439.0	2406.4	2364.9	2367.9	2367.9	2338.1	2347.0	2299.6	2296.6
20°	2445.0	2409.4	2385.6	2356.0	2311.4	2311.4	2311.4	2281.8	2287.8	2246.1	2240.2
22.5°	2382.6	2344.1	2320.4	2290.6	2249.1	2246.1	2243.2	2219.5	2219.5	2180.9	2172.0
25°	2299.6	2264.0	2240.2	2213.5	2172.0	2166.0	2166.0	2145.2	2142.2	2106.8	2100.8
27.5°	2204.6	2163.1	2142.2	2118.6	2080.0	2074.0	2071.1	2059.2	2053.2	2014.8	2011.8
30°	2077.0	2041.4	2023.6	2002.9	1967.2	1961.2	1958.4	1946.5	1943.5	1904.9	1904.9
32.5°	1940.5	1896.0	1884.1	1863.4	1836.6	1833.8	1836.6	1821.9	1810.0	1783.2	1777.4
35°	1777.4	1732.9	1723.9	1715.0	1694.2	1688.4	1685.4	1682.4	1667.5	1649.8	1640.9
37.5°	1587.5	1548.9	1548.9	1545.9	1531.1	1531.1	1531.1	1525.1	1510.2	1504.4	1486.5
40°	1382.8	1353.0	1356.0	1359.0	1353.0	1356.0	1359.0	1353.0	1341.1	1335.2	1320.4
42.5°	1163.1	1148.2	1160.1	1169.1	1169.1	1178.0	1183.9	1183.9	1169.1	1166.1	1154.2
45°	943.6	940.6	964.4	982.1	988.1	1002.9	1011.8	1005.9	1005.9	1005.9	994.0
47.5°	738.9	750.8	771.5	807.1	819.0	836.8	842.6	851.6	848.6	851.6	842.6
50°	560.8	587.5	614.2	649.9	667.6	688.4	697.2	709.1	709.1	712.1	706.2
52.5°	424.2	445.1	489.6	513.4	534.1	554.9	566.8	578.6	581.6	581.6	575.6
55°	314.5	344.2	373.9	406.5	424.2	445.1	454.0	465.9	465.9	471.8	465.9
57.5°	228.5	258.1	290.8	314.5	335.2	350.1	359.0	367.9	373.9	373.9	370.9
60°	169.1	192.9	219.6	243.2	261.1	276.0	281.9	290.8	293.8	293.8	287.9
62.5°	127.6	151.4	175.1	195.9	207.8	219.6	225.5	231.5	231.5	231.5	228.5
65°	103.9	121.6	139.5	157.2	169.1	178.0	181.0	186.9	184.0	186.9	184.0
67.5°	83.1	95.0	109.8	121.6	130.5	136.5	139.5	145.4	142.4	145.4	142.4
70°	62.2	74.1	83.1	92.0	97.9	103.9	106.9	109.8	106.9	109.8	106.9
72.5°	47.5	53.4	62.2	71.2	74.1	77.1	80.1	80.1	80.1	83.1	80.1
75°	32.6	38.6	44.5	47.5	53.4	56.4	56.4	59.4	59.4	59.4	59.4
77.5°	23.8	26.8	29.6	32.6	35.6	38.6	38.6	41.5	41.5	41.5	41.5
80°	14.9	17.8	17.8	20.8	23.8	23.8	26.8	26.8	26.8	26.8	26.8
82.5°	8.9	11.9	11.9	14.9	14.9	14.9	17.8	17.8	17.8	17.8	17.8
85°	5.9	5.9	5.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	5.9	5.9	3.0	3.0
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: P212829

CATALOG NUMBER: LE\_6B40D010 EC6B30509030 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	345°	350°	355°	360°
0°	2548.8	2548.8	2548.8	2548.8
2.5°	2510.2	2495.4	2519.1	2483.5
5°	2483.5	2468.8	2498.4	2453.9
7.5°	2450.9	2436.0	2462.8	2418.2
10°	2409.4	2394.5	2418.2	2370.8
12.5°	2373.8	2358.9	2385.6	2341.1
15°	2347.0	2332.2	2356.0	2314.4
17.5°	2305.5	2287.8	2314.4	2269.9
20°	2246.1	2234.2	2255.0	2210.5
22.5°	2177.9	2166.0	2189.8	2145.2
25°	2106.8	2091.9	2115.6	2071.1
27.5°	2014.8	2002.9	2026.6	1982.1
30°	1904.9	1893.1	1916.8	1875.2
32.5°	1780.2	1768.5	1786.2	1750.6
35°	1637.9	1629.0	1646.8	1608.2
37.5°	1483.6	1474.8	1492.5	1453.9
40°	1317.4	1308.5	1323.4	1305.5
42.5°	1154.2	1145.4	1160.1	1145.4
45°	994.0	988.1	1002.9	988.1
47.5°	845.6	839.8	854.5	839.8
50°	703.2	706.2	712.1	706.2
52.5°	575.6	575.6	584.5	575.6
55°	465.9	468.9	471.8	465.9
57.5°	370.9	370.9	373.9	370.9
60°	287.9	290.8	290.8	287.9
62.5°	228.5	228.5	228.5	228.5
65°	181.0	181.0	184.0	181.0
67.5°	142.4	139.5	142.4	139.5
70°	106.9	106.9	106.9	106.9
72.5°	83.1	83.1	80.1	80.1
75°	59.4	62.2	59.4	59.4
77.5°	41.5	41.5	41.5	41.5
80°	26.8	26.8	26.8	26.8
82.5°	17.8	17.8	17.8	17.8
85°	11.9	8.9	8.9	8.9
87.5°	5.9	3.0	3.0	3.0
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)