

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1214198

Luminaire Tested: 4SNLED-LD5-62SL-RW-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-62SL-RW-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

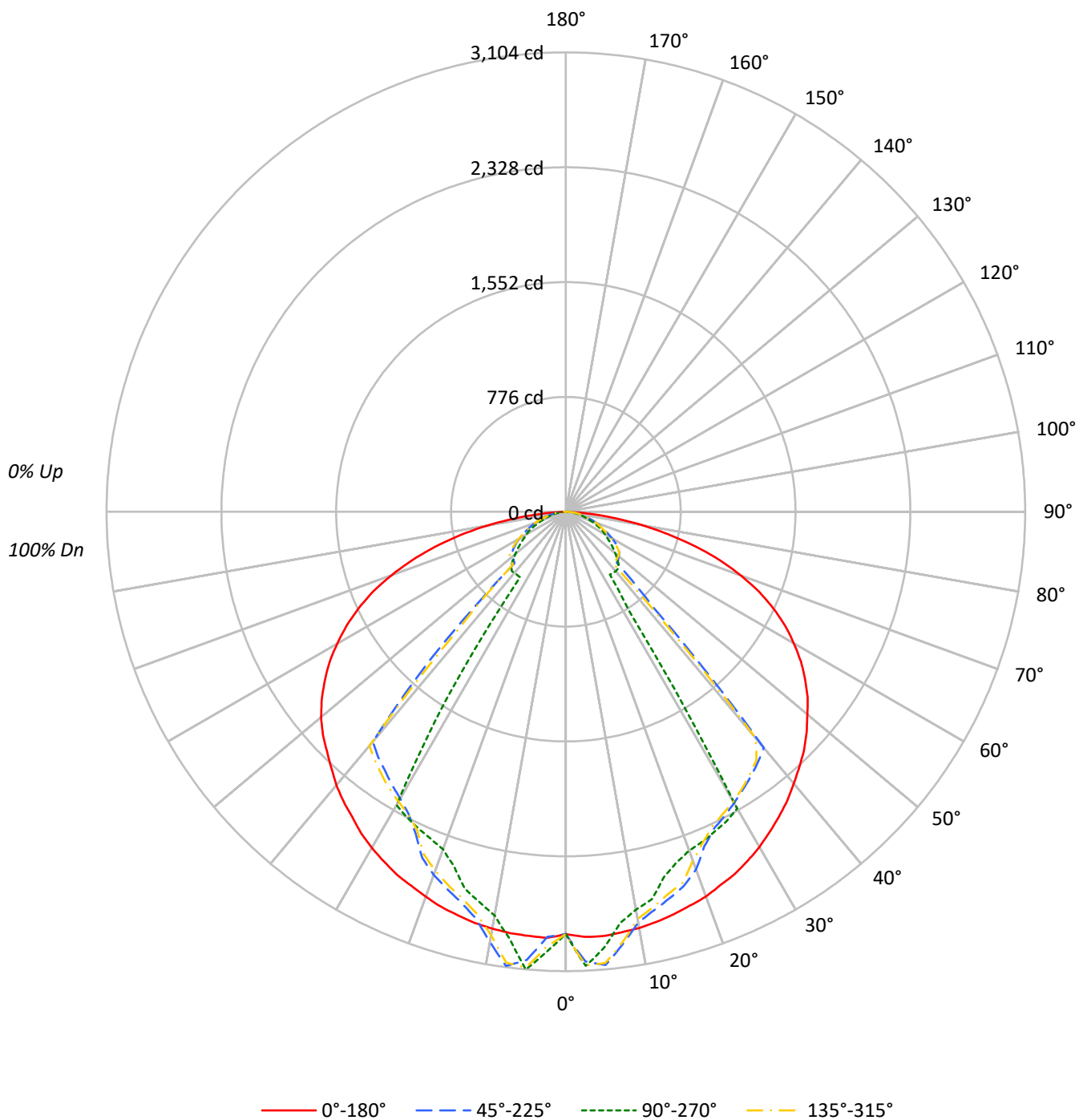
Lumens per Lamp: N/A
Luminaire Lumens: 5714.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 52
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: 24 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	110	106	102	99	108	104	101	98	100	97	94		96	94	92		92	91	89	87
2	102	94	88	83	99	93	87	82	89	85	81		86	82	79		83	80	77	75
3	94	84	77	72	91	83	76	71	80	74	70		77	73	69		75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61		70	65	60		68	63	59	57
5	81	69	61	55	79	68	60	55	66	59	54		64	58	53		62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48		59	53	48		57	52	47	46
7	70	58	50	44	68	57	49	44	55	48	43		54	48	43		53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39		50	44	39		49	43	39	37
9	62	49	41	36	60	48	41	36	47	41	36		46	40	36		45	40	36	34
10	58	46	38	33	57	45	38	33	44	38	33		43	37	33		42	37	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	23058	23058	23058	23058
5°	23285	23232	23274	24383
10°	23307	21005	23340	21326
15°	23359	19434	23413	20051
20°	23528	18433	23528	18363
25°	23732	18080	23766	17911
30°	23972	17762	24033	17551
35°	24251	4046	24302	4219
40°	24640	4207	24788	4343
45°	25230	4184	25318	4336
50°	25820	3783	26168	3884
55°	26614	3359	26825	3406
60°	27288	2984	27348	3022
65°	27769	2604	27700	2563
70°	27373	2099	27288	2023
75°	25414	1615	25596	1548
80°	20627	1148	21453	1050
85°	11170	687	11792	528

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 27960 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.7	4.9
10°-20°	771.9	13.5
20°-30°	1143.3	20.0
30°-40°	1152.0	20.2
40°-50°	899.9	15.7
50°-60°	695.1	12.2
60°-70°	466.7	8.2
70°-80°	238.1	4.2
80°-90°	66.2	1.2
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°	2196.0	38.4
0°-40°	3348.0	58.6
0°-60°	4943.0	86.5
0°-90°	5714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5714.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2853	2853	2853	2853	2853	
5°	2878	2958	2877	3104	2878	274
15°	2816	2557	2822	2638	2816	796
25°	2700	2383	2704	2360	2700	1246
35°	2512	518	2517	540	2512	1574
45°	2277	504	2285	522	2277	1756
55°	1973	366	1989	371	1973	1762
65°	1550	246	1546	242	1550	1524
75°	909	124	915	119	909	950
85°	164	39	173	30	164	225
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4
2.5°	2875.7	2886.1	2894.0	2899.2	2901.8	2901.8	2903.1	2904.4	2921.4	2929.3	2934.5
5°	2878.3	2888.7	2904.4	2925.3	2943.7	2959.3	2972.4	2990.7	3009.0	3028.7	3035.2
7.5°	2866.5	2879.6	2911.0	2948.9	2984.2	3009.0	3026.0	3037.8	3047.0	3048.3	3054.8
10°	2856.0	2879.6	2922.7	2972.4	3016.9	3047.0	3047.0	3040.4	3049.6	3014.3	2979.0
12.5°	2837.7	2863.9	2922.7	2988.1	3030.0	3041.7	3036.5	3010.3	2956.7	2913.6	2894.0
15°	2815.5	2850.8	2924.0	2997.3	3032.6	3036.5	2986.8	2920.1	2879.6	2853.4	2820.7
17.5°	2790.7	2837.7	2925.3	2998.6	3011.7	2993.3	2899.2	2857.3	2815.5	2754.0	2709.6
20°	2767.1	2812.9	2914.9	2980.3	2988.1	2905.7	2832.5	2788.0	2717.4	2663.8	2644.2
22.5°	2730.5	2784.1	2905.7	2955.4	2925.3	2829.9	2759.3	2688.7	2624.6	2608.9	2585.3
25°	2700.4	2756.7	2884.8	2925.3	2845.6	2760.6	2678.2	2595.8	2565.7	2543.5	2522.6
27.5°	2659.9	2729.2	2857.3	2870.4	2760.6	2686.0	2565.7	2529.1	2501.7	2476.8	2467.6
30°	2615.4	2700.4	2819.4	2794.6	2690.0	2580.1	2491.2	2457.2	2437.6	2411.4	2401.0
32.5°	2564.4	2657.3	2777.6	2707.0	2614.1	2476.8	2419.3	2393.1	2367.0	2347.3	2282.0
35°	2512.1	2619.3	2727.9	2623.3	2522.6	2398.3	2347.3	2323.8	2299.0	2227.0	2159.0
37.5°	2458.5	2577.5	2667.7	2533.0	2401.0	2317.3	2274.1	2248.0	2191.7	2100.2	2066.2
40°	2397.0	2526.5	2590.6	2440.2	2295.0	2234.9	2194.3	2168.2	2041.3	2000.8	1990.3
42.5°	2335.6	2476.8	2496.4	2350.0	2207.4	2147.3	2113.3	2027.0	1940.6	1919.7	1923.6
45°	2276.7	2423.2	2393.1	2221.8	2115.9	2066.2	2008.6	1889.6	1843.9	1854.3	1856.9
47.5°	2206.1	2359.1	2284.6	2093.6	2021.7	1972.0	1843.9	1771.9	1765.4	1779.8	1787.6
50°	2130.3	2287.2	2169.5	1977.3	1919.7	1860.9	1715.7	1679.1	1686.9	1701.3	1710.5
52.5°	2059.6	2206.1	2050.5	1868.7	1819.0	1684.3	1586.3	1592.8	1605.9	1622.9	1628.1
55°	1973.3	2108.0	1923.6	1758.9	1711.8	1535.3	1490.8	1506.5	1519.6	1533.9	1544.4
57.5°	1883.1	1995.6	1773.3	1635.9	1560.1	1403.2	1407.1	1417.6	1426.7	1443.7	596.3
60°	1779.8	1867.4	1608.5	1522.2	1371.8	1298.6	1302.5	1320.8	1329.9	742.8	410.6
62.5°	1672.6	1718.3	1459.4	1392.7	1199.2	1193.9	1212.2	1220.1	830.4	392.3	384.5
65°	1549.6	1540.5	1312.9	1207.0	1081.5	1086.7	1106.3	1067.1	367.5	367.5	364.9
67.5°	1413.6	1358.7	1170.4	999.1	967.7	979.5	1000.4	349.2	340.0	342.6	333.5
70°	1258.0	1180.9	1022.6	846.1	856.6	868.3	337.4	316.5	312.5	306.0	287.7
72.5°	1093.2	987.3	836.9	734.9	741.5	465.5	295.5	285.1	272.0	258.9	239.3
75°	908.9	771.5	614.6	614.6	623.8	265.5	257.6	240.6	226.2	209.2	197.5
77.5°	712.7	593.7	477.3	495.6	241.9	222.3	207.9	189.6	177.8	167.4	160.8
80°	521.8	414.5	359.6	321.7	188.3	168.7	154.3	143.8	138.6	132.1	124.2
82.5°	342.6	249.8	249.8	151.7	132.1	116.4	112.5	104.6	99.4	95.5	91.5
85°	163.5	145.2	109.8	92.8	82.4	74.5	71.9	68.0	68.0	66.7	65.4
87.5°	60.2	65.4	48.4	47.1	44.5	43.2	44.5	44.5	45.8	44.5	43.2
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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4
2.5°	2947.6	2958.0	2965.9	2979.0	2996.0	3010.3	3023.4	3041.7	3070.5	3078.4	3084.9
5°	3035.2	3039.1	3048.3	3058.7	3061.4	3067.9	3066.6	3074.4	3078.4	3087.5	3067.9
7.5°	3040.4	3019.5	2994.7	2972.4	2956.7	2942.3	2933.2	2947.6	2955.4	2962.0	2942.3
10°	2930.6	2905.7	2891.3	2878.3	2862.6	2840.3	2810.3	2816.8	2814.2	2814.2	2807.7
12.5°	2861.3	2826.0	2789.3	2756.7	2742.3	2741.0	2742.3	2756.7	2756.7	2755.3	2747.5
15°	2752.7	2718.7	2700.4	2692.6	2692.6	2688.7	2688.7	2704.3	2700.4	2700.4	2696.5
17.5°	2680.8	2657.3	2644.2	2635.0	2631.1	2637.7	2645.5	2652.0	2653.3	2648.1	2627.2
20°	2622.0	2599.7	2584.0	2586.7	2585.3	2589.3	2593.2	2571.0	2543.5	2506.9	2489.9
22.5°	2560.5	2543.5	2531.7	2531.7	2516.0	2491.2	2454.6	2446.7	2442.8	2425.8	2411.4
25°	2501.7	2482.0	2465.0	2412.7	2380.0	2384.0	2377.4	2364.3	2363.0	2361.7	2367.0
27.5°	2442.8	2391.8	2326.4	2318.6	2305.5	2304.2	2312.0	2318.6	2318.6	2323.8	2330.3
30°	2321.2	2262.3	2250.6	2236.2	2241.4	2259.7	2263.6	2272.8	2275.4	2284.6	2289.8
32.5°	2210.0	2183.9	2173.4	2180.0	2197.0	2212.6	2221.8	2225.7	2232.3	2240.1	2246.6
35°	2119.8	2112.0	2121.1	2135.5	2152.5	2165.6	2173.4	2181.3	2187.8	2194.3	2199.6
37.5°	2053.1	2058.3	2071.4	2089.7	2106.7	2117.2	2123.7	2132.9	2142.0	2149.9	2118.5
40°	1990.3	2003.4	2017.8	2037.4	2051.8	2062.3	2068.8	2080.6	2002.1	906.2	496.9
42.5°	1935.4	1949.8	1960.3	1976.0	1991.6	1999.5	1942.0	867.0	490.4	487.8	494.3
45°	1868.7	1880.5	1897.5	1909.3	1923.6	1263.2	482.5	487.8	479.9	485.2	487.8
47.5°	1800.7	1819.0	1828.2	1744.5	519.2	479.9	474.7	479.9	474.7	481.2	477.3
50°	1723.6	1745.8	1242.3	469.5	465.5	462.9	468.2	465.5	469.5	474.7	464.2
52.5°	1645.1	1018.7	455.1	452.5	455.1	452.5	461.6	455.1	456.4	451.2	438.1
55°	557.1	440.7	436.8	435.5	443.3	443.3	443.3	432.9	426.3	413.2	404.1
57.5°	426.3	426.3	425.0	426.3	423.7	421.1	409.3	400.2	391.0	372.7	367.5
60°	404.1	404.1	404.1	404.1	392.3	387.1	368.8	360.9	345.2	336.1	330.9
62.5°	385.8	383.2	371.4	367.5	354.4	340.0	329.5	321.7	306.0	300.8	296.9
65°	359.6	350.5	336.1	320.4	313.9	298.2	292.9	281.2	273.3	269.4	266.8
67.5°	316.5	303.4	291.6	281.2	269.4	264.2	257.6	248.5	243.2	240.6	238.0
70°	270.7	261.5	249.8	243.2	235.4	231.5	222.3	219.7	215.8	211.8	207.9
72.5°	226.2	221.0	215.8	206.6	204.0	201.4	192.2	187.0	181.8	176.5	173.9
75°	189.6	185.7	183.1	175.2	171.3	163.5	156.9	153.0	149.1	145.2	142.5
77.5°	155.6	153.0	145.2	139.9	137.3	130.8	128.2	129.5	126.8	121.6	119.0
80°	121.6	119.0	112.5	112.5	109.8	107.2	104.6	102.0	99.4	95.5	92.8
82.5°	92.8	90.2	87.6	85.0	82.4	81.1	79.8	77.2	74.5	71.9	70.6
85°	65.4	64.1	62.8	61.5	60.2	58.8	57.5	54.9	52.3	51.0	49.7
87.5°	44.5	43.2	41.8	40.5	39.2	37.9	36.6	35.3	32.7	31.4	30.1
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):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4
2.5°	3084.9	3091.4	3084.9	3070.5	3061.4	3057.4	3065.3	3065.3	3070.5	3077.0	3078.4
5°	3036.5	3020.8	3002.5	2984.2	2975.0	2969.8	2955.4	2958.0	2962.0	2964.6	2967.2
7.5°	2916.2	2895.3	2870.4	2846.9	2837.7	2829.9	2812.9	2812.9	2812.9	2814.2	2822.0
10°	2793.3	2784.1	2773.7	2758.0	2746.2	2742.3	2727.9	2731.8	2729.2	2733.1	2742.3
12.5°	2735.7	2725.3	2716.1	2700.4	2687.3	2682.1	2675.6	2679.5	2678.2	2684.7	2692.6
15°	2683.4	2678.2	2667.7	2656.0	2644.2	2633.7	2610.2	2602.3	2597.1	2590.6	2599.7
17.5°	2597.1	2560.5	2535.7	2517.3	2504.3	2495.1	2488.6	2488.6	2492.5	2496.4	2504.3
20°	2479.4	2469.0	2457.2	2437.6	2424.5	2419.3	2415.3	2415.3	2421.9	2427.1	2441.5
22.5°	2398.3	2397.0	2393.1	2384.0	2377.4	2377.4	2378.7	2381.3	2390.5	2398.3	2412.7
25°	2360.4	2365.6	2363.0	2357.8	2353.9	2355.2	2352.6	2355.2	2364.3	2372.2	2384.0
27.5°	2330.3	2338.2	2335.6	2327.7	2321.2	2323.8	2327.7	2325.1	2333.0	2342.1	2351.3
30°	2289.8	2291.1	2296.3	2287.2	2284.6	2288.5	2289.8	2292.4	2300.3	2306.8	2314.6
32.5°	2244.0	2254.5	2253.2	2244.0	2244.0	2248.0	2249.3	2161.6	1998.2	1720.9	1645.1
35°	2199.6	2211.3	2191.7	1847.8	1278.9	682.6	527.0	508.7	512.6	515.2	517.9
37.5°	1626.8	771.5	491.7	495.6	499.5	503.5	507.4	511.3	515.2	519.2	520.5
40°	489.1	487.8	491.7	496.9	500.9	503.5	508.7	512.6	516.5	520.5	521.8
42.5°	483.9	486.5	490.4	495.6	500.9	506.1	510.0	515.2	517.9	520.5	521.8
45°	481.2	486.5	491.7	495.6	499.5	502.2	504.8	506.1	504.8	504.8	507.4
47.5°	477.3	482.5	483.9	482.5	483.9	482.5	482.5	482.5	478.6	477.3	477.3
50°	462.9	462.9	460.3	455.1	453.8	452.5	449.9	448.5	443.3	442.0	442.0
52.5°	432.9	431.5	427.6	421.1	418.5	415.9	414.5	413.2	408.0	405.4	406.7
55°	397.5	394.9	391.0	383.2	381.9	379.2	377.9	376.6	371.4	374.0	370.1
57.5°	364.9	359.6	354.4	353.1	347.9	346.5	345.2	343.9	340.0	341.3	338.7
60°	325.6	324.3	321.7	316.5	316.5	315.2	315.2	312.5	309.9	308.6	308.6
62.5°	296.9	292.9	290.3	290.3	286.4	286.4	286.4	283.8	281.2	282.5	281.2
65°	265.5	264.2	262.8	260.2	260.2	258.9	258.9	256.3	252.4	253.7	251.1
67.5°	239.3	236.7	234.1	232.8	227.5	224.9	223.6	222.3	217.1	218.4	215.8
70°	206.6	202.7	200.1	197.5	193.5	190.9	190.9	188.3	184.4	185.7	183.1
72.5°	172.6	170.0	167.4	166.1	162.2	160.8	159.5	158.2	154.3	155.6	154.3
75°	143.8	143.8	142.5	141.2	137.3	133.4	130.8	129.5	126.8	128.2	125.5
77.5°	119.0	116.4	113.8	113.8	109.8	107.2	104.6	104.6	104.6	103.3	102.0
80°	92.8	90.2	90.2	88.9	86.3	83.7	82.4	82.4	81.1	81.1	79.8
82.5°	70.6	68.0	66.7	66.7	64.1	62.8	61.5	60.2	60.2	60.2	58.8
85°	49.7	47.1	45.8	45.8	43.2	41.8	41.8	40.5	40.5	39.2	39.2
87.5°	30.1	28.8	27.5	27.5	24.8	23.5	23.5	23.5	22.2	22.2	20.9
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: P1214198

CATALOG NUMBER: 4SNLED-LD5-62SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4
2.5°	3078.4	3078.4	3069.2	3071.8	3067.9	3073.1	3066.6	3066.6	3074.4	3074.4	3079.7
5°	2968.5	2962.0	2960.7	2958.0	2945.0	2950.2	2943.7	2937.1	2946.3	2946.3	2958.0
7.5°	2818.1	2806.3	2811.6	2803.7	2795.9	2784.1	2788.0	2782.8	2789.3	2798.5	2810.3
10°	2741.0	2730.5	2737.0	2729.2	2733.1	2716.1	2717.4	2718.7	2725.3	2727.9	2738.3
12.5°	2691.3	2688.7	2686.0	2683.4	2686.0	2676.9	2671.7	2673.0	2675.6	2676.9	2684.7
15°	2586.7	2569.7	2574.9	2556.6	2557.9	2559.2	2548.7	2559.2	2557.9	2574.9	2590.6
17.5°	2501.7	2501.7	2492.5	2484.7	2479.4	2478.1	2470.3	2475.5	2470.3	2480.7	2484.7
20°	2442.8	2441.5	2440.2	2436.3	2423.2	2424.5	2428.4	2416.6	2415.3	2414.0	2421.9
22.5°	2415.3	2416.6	2411.4	2411.4	2399.6	2402.3	2403.6	2390.5	2391.8	2387.9	2391.8
25°	2386.6	2389.2	2382.6	2382.6	2380.0	2378.7	2372.2	2374.8	2367.0	2360.4	2367.0
27.5°	2352.6	2357.8	2352.6	2355.2	2350.0	2347.3	2343.4	2340.8	2333.0	2331.6	2335.6
30°	2321.2	2323.8	2322.5	2316.0	2314.6	2306.8	2310.7	2302.9	2295.0	2296.3	2299.0
32.5°	1190.0	1136.4	876.2	791.2	783.3	812.1	962.5	1171.7	1518.3	1854.3	2096.3
35°	519.2	519.2	519.2	517.9	517.9	516.5	515.2	513.9	512.6	511.3	510.0
37.5°	521.8	521.8	521.8	521.8	520.5	519.2	519.2	516.5	515.2	513.9	512.6
40°	523.1	524.4	524.4	524.4	523.1	523.1	521.8	519.2	517.9	515.2	512.6
42.5°	521.8	523.1	523.1	521.8	521.8	520.5	520.5	519.2	517.9	516.5	515.2
45°	504.8	506.1	503.5	503.5	502.2	502.2	502.2	502.2	502.2	503.5	503.5
47.5°	474.7	474.7	473.4	472.1	472.1	470.8	472.1	470.8	473.4	474.7	477.3
50°	439.4	439.4	436.8	435.5	435.5	435.5	435.5	436.8	438.1	440.7	443.3
52.5°	402.8	402.8	401.5	400.2	398.9	398.9	402.8	401.5	402.8	404.1	408.0
55°	367.5	368.8	366.2	366.2	364.9	364.9	364.9	366.2	367.5	368.8	372.7
57.5°	337.4	337.4	334.8	334.8	334.8	333.5	337.4	334.8	336.1	337.4	340.0
60°	307.3	306.0	306.0	304.7	304.7	304.7	307.3	306.0	306.0	307.3	309.9
62.5°	279.9	279.9	278.5	278.5	277.2	277.2	279.9	278.5	278.5	279.9	281.2
65°	248.5	248.5	247.2	245.8	249.8	245.8	249.8	247.2	249.8	251.1	253.7
67.5°	213.2	213.2	213.2	211.8	211.8	214.5	215.8	213.2	214.5	217.1	218.4
70°	181.8	181.8	180.5	180.5	180.5	183.1	184.4	181.8	183.1	184.4	187.0
72.5°	154.3	151.7	151.7	150.4	153.0	153.0	154.3	153.0	154.3	154.3	156.9
75°	126.8	124.2	124.2	124.2	126.8	125.5	126.8	125.5	126.8	126.8	128.2
77.5°	102.0	100.7	99.4	99.4	102.0	102.0	102.0	100.7	102.0	103.3	104.6
80°	79.8	78.5	77.2	77.2	79.8	79.8	79.8	81.1	79.8	81.1	82.4
82.5°	58.8	57.5	56.2	58.8	58.8	58.8	58.8	60.2	58.8	60.2	61.5
85°	39.2	37.9	36.6	39.2	39.2	39.2	39.2	40.5	39.2	40.5	41.8
87.5°	20.9	19.6	19.6	20.9	20.9	20.9	22.2	22.2	22.2	23.5	23.5
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: P1214198

CATALOG NUMBER: 4SNLED-LD5-62SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4
2.5°	3087.5	3091.4	3090.1	3082.3	3074.4	3065.3	3058.7	3060.0	3073.1	3077.0	3065.3
5°	2958.0	2982.9	2982.9	2999.9	2990.7	2982.9	2988.1	3016.9	3031.3	3053.5	3061.4
7.5°	2824.7	2836.4	2835.1	2852.1	2849.5	2849.5	2853.4	2891.3	2909.7	2928.0	2933.2
10°	2750.1	2761.9	2760.6	2761.9	2758.0	2748.8	2748.8	2765.8	2781.5	2790.7	2793.3
12.5°	2696.5	2703.0	2701.7	2701.7	2699.1	2691.3	2690.0	2704.3	2721.3	2733.1	2734.4
15°	2616.7	2635.0	2639.0	2656.0	2652.0	2641.6	2644.2	2656.0	2666.4	2676.9	2673.0
17.5°	2497.7	2506.9	2508.2	2514.7	2512.1	2512.1	2527.8	2571.0	2599.7	2624.6	2627.2
20°	2429.7	2436.3	2433.6	2448.0	2441.5	2440.2	2444.1	2462.4	2475.5	2487.3	2508.2
22.5°	2397.0	2402.3	2398.3	2399.6	2387.9	2377.4	2374.8	2389.2	2403.6	2419.3	2419.3
25°	2369.6	2373.5	2372.2	2369.6	2360.4	2346.0	2343.4	2346.0	2351.3	2352.6	2343.4
27.5°	2336.9	2339.5	2339.5	2340.8	2329.0	2316.0	2313.3	2310.7	2316.0	2314.6	2300.3
30°	2302.9	2299.0	2300.3	2301.6	2291.1	2279.3	2274.1	2272.8	2278.0	2276.7	2262.3
32.5°	2221.8	2251.9	2254.5	2257.1	2248.0	2237.5	2232.3	2228.3	2231.0	2229.6	2216.6
35°	508.7	517.9	634.2	1435.9	1949.8	2159.0	2181.3	2176.0	2177.3	2177.3	2166.9
37.5°	510.0	508.7	507.4	503.5	499.5	496.9	859.2	1832.1	2122.4	2123.7	2114.6
40°	510.0	508.7	507.4	504.8	499.5	495.6	489.1	483.9	495.6	1090.6	1995.6
42.5°	512.6	510.0	507.4	504.8	499.5	494.3	489.1	482.5	486.5	483.9	477.3
45°	504.8	503.5	503.5	502.2	499.5	494.3	487.8	479.9	476.0	479.9	473.4
47.5°	479.9	481.2	485.2	486.5	486.5	487.8	483.9	478.6	472.1	476.0	468.2
50°	445.9	448.5	449.9	456.4	459.0	464.2	465.5	465.5	464.2	469.5	464.2
52.5°	409.3	411.9	418.5	421.1	423.7	431.5	434.2	438.1	440.7	448.5	453.8
55°	374.0	375.3	377.9	383.2	387.1	393.6	397.5	401.5	408.0	411.9	427.6
57.5°	341.3	342.6	347.9	349.2	351.8	357.0	360.9	366.2	371.4	374.0	392.3
60°	309.9	311.2	315.2	316.5	317.8	323.0	326.9	330.9	334.8	337.4	350.5
62.5°	282.5	282.5	286.4	286.4	287.7	291.6	294.2	296.9	300.8	302.1	308.6
65°	255.0	256.3	258.9	258.9	260.2	262.8	264.2	265.5	269.4	269.4	274.6
67.5°	221.0	222.3	226.2	228.8	230.2	235.4	236.7	238.0	240.6	241.9	244.5
70°	188.3	189.6	193.5	194.8	196.2	200.1	202.7	206.6	210.5	214.5	217.1
72.5°	158.2	159.5	163.5	163.5	167.4	168.7	171.3	172.6	176.5	179.2	183.1
75°	129.5	130.8	134.7	134.7	138.6	139.9	141.2	142.5	145.2	147.8	150.4
77.5°	105.9	105.9	111.2	113.8	116.4	116.4	117.7	117.7	117.7	119.0	121.6
80°	83.7	83.7	87.6	90.2	92.8	92.8	94.2	95.5	96.8	96.8	98.1
82.5°	62.8	62.8	66.7	68.0	70.6	70.6	70.6	71.9	73.2	71.9	74.5
85°	43.2	43.2	45.8	47.1	49.7	49.7	49.7	51.0	52.3	51.0	52.3
87.5°	24.8	26.2	27.5	28.8	30.1	31.4	31.4	31.4	32.7	32.7	34.0
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: P1214198

CATALOG NUMBER: 4SNLED-LD5-62SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4
2.5°	3052.2	3036.5	3035.2	3016.9	3011.7	3013.0	2998.6	2993.3	2969.8	2964.6	2939.7
5°	3064.0	3071.8	3067.9	3066.6	3070.5	3067.9	3057.4	3052.2	3048.3	3037.8	3016.9
7.5°	2934.5	2939.7	2943.7	2960.7	2975.0	2999.9	3026.0	3043.0	3056.1	3058.7	3041.7
10°	2802.4	2827.3	2844.3	2870.4	2891.3	2905.7	2921.4	2935.8	2973.7	3011.7	3033.9
12.5°	2734.4	2741.0	2739.7	2754.0	2768.4	2806.3	2843.0	2863.9	2892.7	2909.7	2950.2
15°	2676.9	2678.2	2682.1	2692.6	2700.4	2713.5	2730.5	2761.9	2819.4	2845.6	2867.8
17.5°	2624.6	2624.6	2627.2	2636.3	2646.8	2658.6	2669.0	2682.1	2710.9	2754.0	2809.0
20°	2540.9	2577.5	2581.4	2580.1	2585.3	2607.6	2610.2	2633.7	2648.1	2665.1	2718.7
22.5°	2416.6	2438.9	2470.3	2518.7	2537.0	2547.4	2555.3	2565.7	2588.0	2607.6	2629.8
25°	2348.6	2363.0	2372.2	2386.6	2424.5	2486.0	2497.7	2509.5	2523.9	2538.3	2565.7
27.5°	2288.5	2287.2	2293.7	2306.8	2317.3	2350.0	2407.5	2453.3	2455.9	2476.8	2500.3
30°	2245.3	2237.5	2228.3	2225.7	2240.1	2257.1	2274.1	2346.0	2395.7	2406.2	2431.0
32.5°	2204.8	2191.7	2178.6	2168.2	2159.0	2173.4	2183.9	2215.3	2279.3	2339.5	2352.6
35°	2155.1	2142.0	2126.3	2114.6	2100.2	2098.9	2097.6	2127.6	2148.6	2220.5	2283.3
37.5°	2104.1	2089.7	2076.6	2063.6	2049.2	2038.7	2032.2	2040.0	2059.6	2091.0	2195.6
40°	2050.5	2033.5	2020.4	2010.0	1990.3	1982.5	1969.4	1964.2	1965.5	1993.0	2047.9
42.5°	1225.3	1953.7	1960.3	1948.5	1931.5	1921.0	1906.6	1900.1	1887.0	1900.1	1931.5
45°	472.1	477.3	1429.3	1888.3	1867.4	1854.3	1841.3	1834.7	1820.3	1809.9	1838.6
47.5°	462.9	468.2	457.7	648.6	1782.4	1786.3	1770.6	1764.1	1749.7	1741.9	1734.0
50°	456.4	460.3	452.5	455.1	445.9	1633.3	1698.7	1690.9	1675.2	1666.0	1650.3
52.5°	449.9	449.9	444.6	438.1	435.5	436.8	1374.4	1616.3	1598.0	1588.9	1567.9
55°	428.9	431.5	436.8	426.3	423.7	422.4	418.5	1309.0	1513.0	1502.6	1484.3
57.5°	397.5	402.8	417.2	414.5	414.5	404.1	401.5	401.5	1214.9	1414.9	1396.6
60°	360.9	366.2	381.9	387.1	391.0	388.4	385.8	384.5	379.2	1280.2	1303.8
62.5°	323.0	328.2	333.5	350.5	355.7	362.2	370.1	366.2	360.9	360.9	1205.7
65°	282.5	290.3	292.9	308.6	315.2	326.9	333.5	342.6	340.0	338.7	345.2
67.5°	247.2	256.3	257.6	264.2	275.9	281.2	289.0	306.0	313.9	316.5	319.1
70°	217.1	222.3	226.2	228.8	236.7	238.0	252.4	264.2	275.9	289.0	292.9
72.5°	187.0	190.9	198.8	196.2	198.8	204.0	211.8	219.7	231.5	249.8	261.5
75°	153.0	155.6	160.8	163.5	168.7	172.6	177.8	184.4	194.8	204.0	219.7
77.5°	122.9	124.2	128.2	129.5	134.7	138.6	147.8	151.7	158.2	164.8	173.9
80°	99.4	99.4	100.7	100.7	104.6	108.5	115.1	119.0	126.8	132.1	132.1
82.5°	75.8	75.8	79.8	79.8	82.4	82.4	86.3	86.3	90.2	92.8	95.5
85°	53.6	54.9	57.5	56.2	58.8	57.5	60.2	62.8	64.1	62.8	61.5
87.5°	35.3	35.3	37.9	36.6	37.9	37.9	40.5	40.5	41.8	41.8	40.5
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: P1214198

CATALOG NUMBER: 4SNLED-LD5-62SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4
2.5°	2930.6	2911.0	2899.2	2884.8	2880.9	2877.0	2882.2	2882.2	2874.3	2867.8	2856.0
5°	2998.6	2977.7	2955.4	2931.9	2909.7	2886.1	2877.0	2875.7	2861.3	2853.4	2849.5
7.5°	3033.9	3023.4	2998.6	2965.9	2931.9	2890.0	2871.7	2861.3	2846.9	2844.3	2844.3
10°	3037.8	3026.0	3013.0	2989.4	2950.2	2895.3	2860.0	2839.0	2826.0	2835.1	2852.1
12.5°	2999.9	3022.1	3010.3	2994.7	2963.3	2896.6	2845.6	2814.2	2810.3	2833.8	2878.3
15°	2903.1	2968.5	3001.2	2985.5	2960.7	2894.0	2822.0	2785.4	2785.4	2833.8	2891.3
17.5°	2829.9	2880.9	2960.7	2973.7	2945.0	2888.7	2799.8	2756.7	2768.4	2839.0	2900.5
20°	2769.7	2801.1	2878.3	2951.5	2924.0	2877.0	2767.1	2722.7	2746.2	2831.2	2913.6
22.5°	2675.6	2738.3	2785.4	2894.0	2903.1	2854.7	2734.4	2680.8	2727.9	2831.2	2907.0
25°	2584.0	2659.9	2709.6	2815.5	2871.7	2827.3	2704.3	2636.3	2708.3	2827.3	2901.8
27.5°	2520.0	2555.3	2645.5	2721.3	2824.7	2790.7	2663.8	2588.0	2683.4	2806.3	2871.7
30°	2452.0	2475.5	2564.4	2636.3	2761.9	2748.8	2622.0	2534.3	2652.0	2786.7	2793.3
32.5°	2377.4	2403.6	2449.3	2554.0	2674.3	2709.6	2574.9	2480.7	2618.0	2756.7	2701.7
35°	2301.6	2321.2	2357.8	2470.3	2572.3	2650.7	2517.3	2419.3	2594.5	2710.9	2614.1
37.5°	2225.7	2246.6	2278.0	2372.2	2465.0	2595.8	2467.6	2357.8	2551.3	2629.8	2522.6
40°	2153.8	2165.6	2198.3	2257.1	2376.1	2539.6	2411.4	2293.7	2506.9	2526.5	2398.3
42.5°	2021.7	2080.6	2110.6	2157.7	2275.4	2462.4	2346.0	2225.7	2457.2	2423.2	2274.1
45°	1879.2	2007.3	2020.4	2067.5	2186.5	2380.0	2284.6	2159.0	2410.1	2334.3	2156.4
47.5°	1762.8	1855.6	1931.5	1970.7	2080.6	2283.3	2227.0	2102.8	2339.5	2221.8	2041.3
50°	1659.5	1709.2	1846.5	1875.3	1953.7	2166.9	2159.0	2037.4	2241.4	2080.6	1928.9
52.5°	1558.8	1594.1	1718.3	1779.8	1843.9	2041.3	2078.0	1973.3	2134.2	1939.3	1815.1
55°	1471.2	1482.9	1550.9	1680.4	1737.9	1914.5	1989.0	1898.8	1998.2	1804.6	1705.3
57.5°	1380.9	1370.5	1420.2	1586.3	1628.1	1785.0	1894.9	1822.9	1888.3	1667.3	1591.5
60°	1286.8	1272.4	1293.3	1403.2	1511.7	1656.9	1783.7	1739.3	1754.9	1531.3	1464.6
62.5°	1188.7	1174.3	1167.8	1237.1	1397.9	1524.8	1671.3	1646.4	1591.5	1407.1	1307.7
65°	1086.7	1072.3	1061.9	1089.3	1272.4	1353.5	1545.7	1539.2	1412.3	1276.3	1101.1
67.5°	330.9	975.6	953.3	952.0	1072.3	1197.9	1409.7	1399.3	1231.9	1136.4	948.1
70°	298.2	791.2	840.9	829.1	881.4	1039.6	1254.1	1246.2	1056.6	911.5	838.2
72.5°	273.3	279.9	742.8	729.7	741.5	884.0	1091.9	1071.0	895.8	719.2	724.5
75°	234.1	245.8	256.3	615.9	600.2	732.3	915.4	882.7	738.9	593.7	605.5
77.5°	190.9	205.3	213.2	448.5	485.2	521.8	731.0	687.9	508.7	474.7	226.2
80°	142.5	154.3	167.4	179.2	368.8	364.9	542.7	499.5	354.4	295.5	176.5
82.5°	104.6	108.5	116.4	129.5	146.5	244.5	349.2	307.3	245.8	134.7	121.6
85°	65.4	70.6	74.5	78.5	88.9	146.5	172.6	137.3	103.3	82.4	77.2
87.5°	41.8	41.8	40.5	41.8	43.2	52.3	58.8	56.2	44.5	41.8	41.8
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: P1214198

CATALOG NUMBER: 4SNLED-LD5-62SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4
2.5°	2843.0	2824.7	2824.7	2819.4	2823.3	2823.3	2822.0	2823.3	2832.5	2837.7	2846.9
5°	2841.7	2836.4	2848.2	2862.6	2879.6	2900.5	2905.7	2924.0	2941.0	2963.3	2986.8
7.5°	2858.7	2877.0	2899.2	2922.7	2956.7	2981.6	3003.8	3026.0	3041.7	3062.7	3075.7
10°	2883.5	2920.1	2958.0	2988.1	3024.7	3045.7	3060.0	3062.7	3040.4	3005.1	2976.3
12.5°	2918.8	2962.0	2997.3	3026.0	3043.0	3035.2	2993.3	2950.2	2925.3	2888.7	2837.7
15°	2948.9	2988.1	3024.7	3013.0	2967.2	2924.0	2891.3	2840.3	2790.7	2756.7	2734.4
17.5°	2962.0	2999.9	2986.8	2925.3	2882.2	2832.5	2765.8	2726.6	2693.9	2667.7	2654.7
20°	2969.8	2963.3	2892.7	2848.2	2764.5	2718.7	2675.6	2639.0	2614.1	2601.0	2598.4
22.5°	2948.9	2869.1	2809.0	2729.2	2667.7	2629.8	2595.8	2565.7	2548.7	2538.3	2531.7
25°	2879.6	2786.7	2697.8	2635.0	2582.7	2550.0	2523.9	2499.0	2478.1	2472.9	2459.8
27.5°	2782.8	2707.0	2589.3	2540.9	2495.1	2479.4	2450.6	2425.8	2407.5	2391.8	2350.0
30°	2703.0	2582.7	2497.7	2453.3	2425.8	2407.5	2374.8	2348.6	2317.3	2259.7	2236.2
32.5°	2605.0	2486.0	2404.9	2380.0	2346.0	2330.3	2293.7	2236.2	2187.8	2164.3	2163.0
35°	2478.1	2380.0	2321.2	2299.0	2271.5	2245.3	2169.5	2117.2	2093.6	2096.3	2115.9
37.5°	2372.2	2284.6	2246.6	2215.3	2183.9	2117.2	2053.1	2028.3	2034.8	2047.9	2057.0
40°	2265.0	2198.3	2155.1	2130.3	2059.6	1994.3	1960.3	1969.4	1981.2	1990.3	2002.1
42.5°	2160.3	2113.3	2070.1	2021.7	1925.0	1889.6	1897.5	1909.3	1919.7	1932.8	1944.6
45°	2061.0	2019.1	1969.4	1859.6	1811.2	1820.3	1832.1	1841.3	1856.9	1866.1	1877.9
47.5°	1966.8	1922.3	1834.7	1737.9	1732.7	1751.0	1761.5	1773.3	1785.0	1761.5	971.6
50°	1860.9	1815.1	1681.7	1645.1	1656.9	1673.9	1686.9	1698.7	1513.0	601.5	462.9
52.5°	1756.3	1639.9	1554.9	1565.3	1577.1	1596.7	1605.9	1192.6	474.7	452.5	453.8
55°	1639.9	1490.8	1465.9	1479.0	1489.5	1509.1	1000.4	438.1	435.5	434.2	444.6
57.5°	1456.8	1366.6	1377.0	1390.1	1400.6	988.6	426.3	423.7	425.0	426.3	427.6
60°	1293.3	1273.7	1285.5	1297.2	918.0	411.9	404.1	405.4	410.6	406.7	396.2
62.5°	1163.9	1179.6	1191.3	1043.6	391.0	387.1	391.0	387.1	377.9	371.4	358.3
65°	1064.5	1080.2	1089.3	367.5	366.2	371.4	367.5	354.4	340.0	321.7	317.8
67.5°	959.9	975.6	349.2	340.0	345.2	338.7	323.0	307.3	296.9	281.2	274.6
70°	851.3	364.9	316.5	315.2	306.0	295.5	278.5	262.8	249.8	243.2	236.7
72.5°	614.6	289.0	285.1	274.6	258.9	244.5	230.2	221.0	214.5	210.5	206.6
75°	256.3	251.1	239.3	221.0	205.3	198.8	188.3	181.8	179.2	171.3	168.7
77.5°	214.5	204.0	187.0	173.9	164.8	160.8	153.0	145.2	141.2	139.9	134.7
80°	164.8	150.4	142.5	136.0	133.4	124.2	115.1	111.2	108.5	107.2	103.3
82.5°	112.5	107.2	102.0	92.8	92.8	88.9	85.0	82.4	79.8	79.8	77.2
85°	73.2	69.3	68.0	64.1	64.1	61.5	60.2	58.8	57.5	56.2	54.9
87.5°	41.8	41.8	43.2	41.8	41.8	40.5	39.2	37.9	36.6	36.6	34.0
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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CATALOG NUMBER: 4SNLED-LD5-62SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4
2.5°	2858.7	2871.7	2874.3	2918.8	2943.7	2942.3	2934.5	2958.0	2943.7	2935.8	2943.7
5°	3010.3	3026.0	3039.1	3087.5	3104.5	3112.4	3111.0	3124.1	3113.7	3104.5	3104.5
7.5°	3084.9	3090.1	3095.4	3083.6	3075.7	3062.7	3043.0	3014.3	2999.9	2984.2	2964.6
10°	2962.0	2945.0	2951.5	2928.0	2908.3	2894.0	2875.7	2852.1	2832.5	2818.1	2795.9
12.5°	2811.6	2810.3	2812.9	2816.8	2797.2	2785.4	2771.0	2754.0	2739.7	2724.0	2705.7
15°	2720.0	2721.3	2731.8	2727.9	2721.3	2714.8	2699.1	2693.9	2680.8	2663.8	2653.3
17.5°	2654.7	2661.2	2671.7	2666.4	2656.0	2649.4	2637.7	2625.9	2614.1	2601.0	2585.3
20°	2597.1	2603.7	2610.2	2603.7	2584.0	2574.9	2559.2	2522.6	2496.4	2470.3	2446.7
22.5°	2534.3	2538.3	2533.0	2512.1	2462.4	2438.9	2420.6	2410.1	2387.9	2373.5	2359.1
25°	2455.9	2433.6	2399.6	2376.1	2356.5	2346.0	2338.2	2336.9	2334.3	2331.6	2325.1
27.5°	2327.7	2319.9	2301.6	2292.4	2293.7	2297.6	2299.0	2302.9	2299.0	2293.7	2288.5
30°	2232.3	2236.2	2237.5	2240.1	2246.6	2250.6	2251.9	2257.1	2254.5	2250.6	2248.0
32.5°	2172.1	2181.3	2186.5	2194.3	2198.3	2204.8	2204.8	2212.6	2204.8	2203.5	2200.9
35°	2122.4	2130.3	2132.9	2144.6	2148.6	2155.1	2155.1	2161.6	2155.1	2088.4	1649.0
37.5°	2072.7	2080.6	2085.8	2096.3	2097.6	2101.5	1939.3	1418.9	915.4	708.8	541.4
40°	2013.9	2023.0	2028.3	2032.2	1428.0	906.2	623.8	507.4	507.4	511.3	515.2
42.5°	1951.1	1957.6	1363.9	793.8	494.3	493.0	496.9	500.9	504.8	510.0	515.2
45°	1533.9	774.2	491.7	479.9	483.9	489.1	494.3	499.5	506.1	511.3	513.9
47.5°	503.5	472.1	478.6	473.4	479.9	486.5	491.7	496.9	498.2	499.5	498.2
50°	465.5	465.5	469.5	469.5	474.7	477.3	477.3	477.3	472.1	470.8	466.9
52.5°	449.9	460.3	455.1	457.7	455.1	451.2	447.2	443.3	435.5	432.9	427.6
55°	442.0	445.9	432.9	428.9	423.7	413.2	408.0	402.8	396.2	393.6	387.1
57.5°	423.7	414.5	400.2	393.6	384.5	374.0	368.8	364.9	358.3	355.7	351.8
60°	389.7	371.4	362.2	354.4	343.9	334.8	330.9	328.2	323.0	321.7	317.8
62.5°	347.9	332.2	324.3	313.9	306.0	300.8	296.9	295.5	290.3	290.3	287.7
65°	302.1	294.2	287.7	277.2	273.3	268.1	266.8	265.5	262.8	261.5	258.9
67.5°	265.5	260.2	251.1	245.8	243.2	239.3	236.7	234.1	228.8	226.2	222.3
70°	232.8	228.8	219.7	215.8	210.5	204.0	200.1	197.5	193.5	190.9	187.0
72.5°	201.4	189.6	183.1	179.2	175.2	168.7	167.4	164.8	160.8	159.5	155.6
75°	162.2	153.0	149.1	146.5	142.5	138.6	138.6	138.6	134.7	133.4	132.1
77.5°	129.5	124.2	121.6	119.0	117.7	115.1	111.2	109.8	105.9	105.9	104.6
80°	99.4	96.8	94.2	92.8	91.5	88.9	86.3	85.0	81.1	81.1	79.8
82.5°	73.2	71.9	70.6	69.3	68.0	66.7	62.8	61.5	58.8	58.8	57.5
85°	52.3	51.0	48.4	47.1	47.1	45.8	41.8	40.5	37.9	37.9	37.9
87.5°	32.7	31.4	30.1	28.8	27.5	26.2	23.5	22.2	22.2	19.6	18.3
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: P1214198

CATALOG NUMBER: 4SNLED-LD5-62SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4
2.5°	2928.0	2950.2	2947.6	2963.3	2967.2	2975.0	2977.7	2979.0	2959.3	2975.0	2976.3
5°	3100.6	3104.5	3107.1	3113.7	3120.2	3121.5	3115.0	3107.1	3109.7	3104.5	3091.4
7.5°	2962.0	2942.3	2938.4	2933.2	2930.6	2928.0	2916.2	2926.7	2914.9	2909.7	2891.3
10°	2792.0	2773.7	2772.3	2772.3	2776.3	2775.0	2772.3	2767.1	2777.6	2771.0	2767.1
12.5°	2703.0	2696.5	2700.4	2697.8	2708.3	2710.9	2708.3	2708.3	2705.7	2700.4	2703.0
15°	2649.4	2644.2	2648.1	2644.2	2652.0	2653.3	2646.8	2650.7	2644.2	2637.7	2635.0
17.5°	2578.8	2567.0	2557.9	2544.8	2546.1	2543.5	2535.7	2535.7	2529.1	2512.1	2513.4
20°	2442.8	2431.0	2425.8	2425.8	2432.3	2435.0	2433.6	2436.3	2429.7	2427.1	2416.6
22.5°	2357.8	2356.5	2359.1	2365.6	2376.1	2390.5	2391.8	2391.8	2391.8	2390.5	2377.4
25°	2327.7	2327.7	2330.3	2339.5	2347.3	2357.8	2360.4	2363.0	2360.4	2360.4	2348.6
27.5°	2293.7	2291.1	2296.3	2305.5	2314.6	2322.5	2329.0	2330.3	2326.4	2326.4	2330.3
30°	2251.9	2250.6	2257.1	2266.3	2274.1	2282.0	2288.5	2293.7	2288.5	2288.5	2284.6
32.5°	2208.7	2208.7	2211.3	2156.4	1999.5	1800.7	1804.6	1689.6	1609.8	1509.1	1642.5
35°	1378.3	1003.0	861.8	729.7	636.9	576.7	575.4	555.8	546.6	540.1	538.8
37.5°	520.5	523.1	528.3	530.9	534.9	537.5	538.8	538.8	538.8	538.8	537.5
40°	519.2	524.4	528.3	532.2	536.2	538.8	538.8	540.1	541.4	541.4	541.4
42.5°	520.5	525.7	530.9	534.9	537.5	538.8	540.1	541.4	541.4	541.4	541.4
45°	519.2	521.8	521.8	523.1	523.1	523.1	524.4	524.4	523.1	521.8	524.4
47.5°	499.5	499.5	495.6	494.3	493.0	490.4	491.7	490.4	489.1	487.8	490.4
50°	465.5	460.3	457.7	455.1	453.8	451.2	452.5	451.2	449.9	447.2	451.2
52.5°	425.0	423.7	418.5	415.9	414.5	415.9	413.2	411.9	410.6	409.3	410.6
55°	385.8	380.5	379.2	376.6	375.3	376.6	375.3	374.0	372.7	371.4	372.7
57.5°	350.5	346.5	345.2	342.6	342.6	342.6	342.6	341.3	340.0	338.7	340.0
60°	316.5	313.9	312.5	312.5	311.2	311.2	311.2	309.9	308.6	308.6	309.9
62.5°	287.7	287.7	283.8	282.5	282.5	283.8	282.5	281.2	279.9	278.5	281.2
65°	257.6	252.4	251.1	248.5	245.8	247.2	245.8	244.5	243.2	241.9	244.5
67.5°	221.0	219.7	214.5	211.8	210.5	211.8	210.5	209.2	207.9	206.6	209.2
70°	185.7	185.7	180.5	179.2	177.8	177.8	176.5	176.5	175.2	173.9	176.5
72.5°	154.3	154.3	153.0	150.4	149.1	147.8	146.5	145.2	145.2	146.5	146.5
75°	128.2	125.5	120.3	121.6	120.3	119.0	119.0	117.7	116.4	119.0	117.7
77.5°	100.7	99.4	95.5	96.8	95.5	94.2	94.2	92.8	91.5	92.8	92.8
80°	75.8	75.8	74.5	73.2	73.2	71.9	70.6	70.6	69.3	70.6	70.6
82.5°	54.9	54.9	53.6	52.3	51.0	51.0	49.7	49.7	49.7	49.7	49.7
85°	35.3	34.0	34.0	31.4	31.4	31.4	30.1	30.1	30.1	30.1	30.1
87.5°	17.0	17.0	15.7	15.7	14.4	13.1	13.1	11.8	11.8	13.1	13.1
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: P1214198

CATALOG NUMBER: 4SNLED-LD5-62SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4
2.5°	2952.8	2969.8	2955.4	2962.0	2963.3	2985.5	2984.2	2989.4	2980.3	2969.8	2955.4
5°	3103.2	3095.4	3084.9	3109.7	3096.7	3112.4	3117.6	3128.0	3128.0	3126.7	3115.0
7.5°	2911.0	2894.0	2907.0	2916.2	2920.1	2909.7	2930.6	2954.1	2973.7	2985.5	2986.8
10°	2760.6	2765.8	2764.5	2768.4	2777.6	2776.3	2789.3	2802.4	2807.7	2815.5	2818.1
12.5°	2690.0	2688.7	2691.3	2700.4	2705.7	2704.3	2717.4	2725.3	2727.9	2729.2	2727.9
15°	2633.7	2624.6	2631.1	2632.4	2636.3	2636.3	2652.0	2663.8	2669.0	2671.7	2669.0
17.5°	2527.8	2505.6	2526.5	2526.5	2540.9	2538.3	2563.1	2582.7	2593.2	2601.0	2601.0
20°	2423.2	2412.7	2420.6	2418.0	2428.4	2427.1	2442.8	2455.9	2465.0	2471.6	2479.4
22.5°	2381.3	2384.0	2372.2	2373.5	2373.5	2372.2	2380.0	2386.6	2389.2	2393.1	2390.5
25°	2353.9	2356.5	2352.6	2346.0	2343.4	2346.0	2350.0	2357.8	2359.1	2356.5	2347.3
27.5°	2326.4	2318.6	2325.1	2313.3	2310.7	2316.0	2321.2	2322.5	2323.8	2323.8	2316.0
30°	2284.6	2278.0	2284.6	2279.3	2274.1	2279.3	2283.3	2283.3	2285.9	2287.2	2278.0
32.5°	1596.7	1609.8	1821.6	1949.8	2130.3	2221.8	2238.8	2238.8	2241.4	2241.4	2233.6
35°	544.0	545.3	589.8	639.5	745.4	876.2	1047.5	1136.4	1437.2	1796.8	2144.6
37.5°	537.5	536.2	534.9	533.5	532.2	530.9	528.3	527.0	534.9	634.2	860.5
40°	540.1	538.8	536.2	534.9	533.5	530.9	529.6	527.0	524.4	521.8	519.2
42.5°	540.1	538.8	537.5	536.2	534.9	533.5	530.9	528.3	525.7	521.8	517.9
45°	521.8	521.8	523.1	523.1	524.4	524.4	524.4	523.1	523.1	521.8	516.5
47.5°	487.8	487.8	491.7	491.7	494.3	496.9	496.9	499.5	503.5	506.1	507.4
50°	448.5	448.5	452.5	453.8	456.4	460.3	464.2	465.5	469.5	474.7	479.9
52.5°	409.3	409.3	413.2	413.2	415.9	419.8	423.7	425.0	430.2	435.5	442.0
55°	372.7	372.7	375.3	376.6	377.9	380.5	384.5	384.5	389.7	393.6	400.2
57.5°	340.0	342.6	342.6	342.6	343.9	346.5	349.2	349.2	353.1	357.0	362.2
60°	308.6	311.2	311.2	311.2	312.5	313.9	316.5	316.5	319.1	321.7	326.9
62.5°	279.9	282.5	282.5	283.8	283.8	285.1	287.7	286.4	289.0	290.3	294.2
65°	243.2	245.8	247.2	248.5	249.8	252.4	256.3	255.0	258.9	261.5	265.5
67.5°	207.9	210.5	210.5	211.8	213.2	215.8	218.4	218.4	222.3	224.9	230.2
70°	175.2	177.8	177.8	179.2	180.5	183.1	185.7	184.4	188.3	190.9	194.8
72.5°	145.2	147.8	147.8	149.1	149.1	151.7	154.3	156.9	156.9	159.5	162.2
75°	117.7	119.0	120.3	120.3	121.6	122.9	125.5	128.2	129.5	130.8	133.4
77.5°	92.8	94.2	95.5	95.5	96.8	98.1	99.4	104.6	107.2	108.5	108.5
80°	70.6	71.9	71.9	71.9	73.2	74.5	77.2	77.2	82.4	82.4	83.7
82.5°	49.7	51.0	51.0	51.0	52.3	54.9	56.2	57.5	60.2	61.5	61.5
85°	30.1	31.4	31.4	31.4	32.7	34.0	36.6	37.9	39.2	39.2	40.5
87.5°	11.8	13.1	14.4	14.4	15.7	17.0	18.3	19.6	20.9	20.9	22.2
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):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4
2.5°	2939.7	2948.9	2939.7	2945.0	2951.5	2939.7	2912.3	2901.8	2897.9	2882.2	2871.7
5°	3103.2	3103.2	3099.3	3109.7	3108.4	3090.1	3061.4	3048.3	3035.2	3018.2	3005.1
7.5°	2986.8	2997.3	3003.8	3044.4	3070.5	3073.1	3091.4	3095.4	3100.6	3095.4	3087.5
10°	2819.4	2815.5	2833.8	2871.7	2894.0	2905.7	2941.0	2958.0	2972.4	3001.2	3031.3
12.5°	2725.3	2730.5	2738.3	2765.8	2786.7	2781.5	2795.9	2807.7	2824.7	2853.4	2896.6
15°	2662.5	2667.7	2675.6	2696.5	2709.6	2703.0	2710.9	2718.7	2730.5	2744.9	2771.0
17.5°	2594.5	2603.7	2612.8	2635.0	2646.8	2645.5	2652.0	2654.7	2658.6	2667.7	2686.0
20°	2488.6	2517.3	2535.7	2565.7	2582.7	2580.1	2591.9	2595.8	2601.0	2610.2	2618.0
22.5°	2391.8	2399.6	2408.8	2441.5	2470.3	2505.6	2513.4	2523.9	2537.0	2546.1	2554.0
25°	2336.9	2331.6	2335.6	2357.8	2373.5	2376.1	2387.9	2421.9	2457.2	2472.9	2491.2
27.5°	2304.2	2299.0	2297.6	2308.1	2310.7	2304.2	2301.6	2312.0	2338.2	2364.3	2419.3
30°	2268.9	2262.3	2257.1	2266.3	2270.2	2261.0	2244.0	2234.9	2250.6	2257.1	2279.3
32.5°	2227.0	2220.5	2217.9	2223.1	2225.7	2217.9	2199.6	2189.1	2186.5	2181.3	2186.5
35°	2180.0	2173.4	2169.5	2170.8	2176.0	2169.5	2153.8	2140.7	2134.2	2119.8	2109.3
37.5°	1123.3	1591.5	2066.2	2115.9	2121.1	2119.8	2104.1	2089.7	2083.2	2066.2	2061.0
40°	513.9	574.1	861.8	1125.9	1624.2	2063.6	2049.2	2034.8	2023.0	2017.8	1998.2
42.5°	512.6	513.9	515.2	508.7	630.3	1073.6	1584.9	1978.6	1970.7	1957.6	1943.3
45°	512.6	506.1	511.3	503.5	506.1	504.8	629.0	1014.8	1805.9	1887.0	1880.5
47.5°	507.4	503.5	508.7	502.2	494.3	498.2	493.0	499.5	779.4	1322.1	1811.2
50°	483.9	486.5	495.6	494.3	487.8	493.0	483.9	491.7	485.2	532.2	1025.2
52.5°	448.5	453.8	462.9	470.8	473.4	479.9	477.3	479.9	474.7	476.0	477.3
55°	406.7	413.2	421.1	432.9	438.1	448.5	456.4	460.3	466.9	465.5	455.1
57.5°	367.5	374.0	380.5	392.3	404.1	409.3	423.7	431.5	448.5	444.6	442.0
60°	330.9	336.1	342.6	345.2	359.6	368.8	381.9	389.7	411.9	417.2	425.0
62.5°	298.2	300.8	306.0	309.9	319.1	328.2	334.8	347.9	359.6	376.6	388.4
65°	268.1	270.7	274.6	277.2	278.5	291.6	295.5	309.9	313.9	332.2	342.6
67.5°	234.1	239.3	244.5	247.2	249.8	257.6	260.2	266.8	275.9	283.8	296.9
70°	198.8	202.7	207.9	211.8	217.1	222.3	230.2	234.1	240.6	245.8	256.3
72.5°	166.1	170.0	172.6	176.5	180.5	184.4	190.9	200.1	205.3	214.5	217.1
75°	134.7	138.6	141.2	143.8	147.8	150.4	153.0	162.2	167.4	175.2	183.1
77.5°	111.2	111.2	113.8	121.6	120.3	120.3	122.9	128.2	132.1	137.3	145.2
80°	86.3	87.6	88.9	95.5	96.8	98.1	96.8	100.7	104.6	105.9	111.2
82.5°	64.1	65.4	65.4	69.3	73.2	73.2	73.2	74.5	78.5	79.8	82.4
85°	43.2	44.5	45.8	47.1	49.7	51.0	52.3	52.3	54.9	56.2	57.5
87.5°	23.5	26.2	27.5	28.8	30.1	31.4	32.7	34.0	35.3	36.6	37.9
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):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4	2853.4
2.5°	2867.8	2861.3	2857.3	2846.9	2844.3	2827.3	2829.9	2827.3	2827.3	2831.2	2844.3
5°	2990.7	2959.3	2951.5	2929.3	2911.0	2879.6	2860.0	2849.5	2833.8	2827.3	2836.4
7.5°	3074.4	3050.9	3031.3	3011.7	2985.5	2948.9	2921.4	2890.0	2863.9	2839.0	2832.5
10°	3060.0	3086.2	3086.2	3074.4	3049.6	3013.0	2980.3	2941.0	2895.3	2856.0	2832.5
12.5°	2938.4	2984.2	3020.8	3048.3	3073.1	3048.3	3015.6	2984.2	2933.2	2875.7	2832.5
15°	2805.0	2852.1	2897.9	2955.4	3015.6	3040.4	3039.1	3002.5	2956.7	2896.6	2836.4
17.5°	2710.9	2743.6	2768.4	2831.2	2904.4	2968.5	3011.7	3014.3	2969.8	2916.2	2837.7
20°	2640.3	2663.8	2684.7	2720.0	2784.1	2862.6	2942.3	2986.8	2979.0	2920.1	2841.7
22.5°	2576.2	2593.2	2610.2	2636.3	2687.3	2738.3	2831.2	2922.7	2962.0	2913.6	2837.7
25°	2512.1	2530.4	2543.5	2561.8	2602.3	2644.2	2709.6	2823.3	2911.0	2908.3	2829.9
27.5°	2436.3	2461.1	2476.8	2501.7	2529.1	2560.5	2605.0	2712.2	2837.7	2882.2	2809.0
30°	2344.7	2381.3	2404.9	2432.3	2455.9	2483.3	2518.7	2584.0	2739.7	2831.2	2786.7
32.5°	2212.6	2278.0	2330.3	2356.5	2382.6	2406.2	2437.6	2492.5	2619.3	2761.9	2761.9
35°	2118.5	2148.6	2195.6	2271.5	2304.2	2327.7	2356.5	2399.6	2480.7	2679.5	2721.3
37.5°	2045.3	2057.0	2080.6	2155.1	2216.6	2254.5	2283.3	2310.7	2390.5	2567.0	2669.0
40°	1990.3	1986.4	1983.8	2019.1	2106.7	2166.9	2199.6	2227.0	2288.5	2432.3	2599.7
42.5°	1926.3	1922.3	1909.3	1918.4	1961.6	2062.3	2112.0	2142.0	2193.0	2291.1	2523.9
45°	1859.6	1853.0	1847.8	1838.6	1854.3	1910.6	2012.6	2057.0	2085.8	2173.4	2428.4
47.5°	1791.6	1782.4	1775.9	1768.0	1758.9	1785.0	1881.8	1961.6	2011.3	2066.2	2313.3
50°	1694.8	1706.6	1698.7	1689.6	1681.7	1676.5	1717.0	1847.8	1909.3	1953.7	2173.4
52.5°	799.0	1553.6	1618.9	1609.8	1599.3	1590.2	1599.3	1698.7	1809.9	1845.2	2004.7
55°	455.1	691.8	1439.8	1522.2	1513.0	1499.9	1492.1	1526.1	1692.2	1739.3	1850.4
57.5°	438.1	439.4	635.5	1371.8	1422.8	1411.0	1401.9	1409.7	1550.9	1630.7	1715.7
60°	423.7	423.7	423.7	606.8	1311.6	1315.6	1303.8	1290.7	1352.2	1509.1	1579.7
62.5°	392.3	400.2	404.1	404.1	598.9	1214.9	1203.1	1199.2	1201.8	1362.6	1443.7
65°	351.8	370.1	377.9	383.2	383.2	629.0	1099.8	1093.2	1084.1	1145.6	1306.4
67.5°	307.3	325.6	342.6	353.1	354.4	366.2	656.5	984.7	971.6	972.9	1159.9
70°	261.5	277.2	295.5	311.2	325.6	332.2	342.6	817.3	860.5	842.2	993.9
72.5°	226.2	232.8	245.8	261.5	278.5	294.2	303.4	325.6	746.7	727.1	755.9
75°	188.3	193.5	202.7	213.2	226.2	244.5	260.2	275.9	396.2	609.4	605.5
77.5°	146.5	155.6	166.1	172.6	179.2	192.2	213.2	228.8	244.5	411.9	485.2
80°	112.5	119.0	124.2	130.8	138.6	147.8	155.6	173.9	192.2	206.6	371.4
82.5°	83.7	87.6	91.5	94.2	96.8	102.0	116.4	122.9	134.7	147.8	175.2
85°	58.8	61.5	64.1	65.4	66.7	68.0	73.2	74.5	86.3	88.9	105.9
87.5°	37.9	39.2	41.8	43.2	43.2	44.5	45.8	45.8	45.8	43.2	52.3
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):

	357.5°	360°
0°	2853.4	2853.4
2.5°	2854.7	2875.7
5°	2850.8	2878.3
7.5°	2840.3	2866.5
10°	2824.7	2856.0
12.5°	2807.7	2837.7
15°	2793.3	2815.5
17.5°	2777.6	2790.7
20°	2756.7	2767.1
22.5°	2735.7	2730.5
25°	2712.2	2700.4
27.5°	2682.1	2659.9
30°	2654.7	2615.4
32.5°	2628.5	2564.4
35°	2593.2	2512.1
37.5°	2556.6	2458.5
40°	2513.4	2397.0
42.5°	2467.6	2335.6
45°	2410.1	2276.7
47.5°	2359.1	2206.1
50°	2288.5	2130.3
52.5°	2202.2	2059.6
55°	2100.2	1973.3
57.5°	1990.3	1883.1
60°	1872.6	1779.8
62.5°	1730.1	1672.6
65°	1562.7	1549.6
67.5°	1344.3	1413.6
70°	1102.4	1258.0
72.5°	921.9	1093.2
75°	755.9	908.9
77.5°	598.9	712.7
80°	374.0	521.8
82.5°	251.1	342.6
85°	151.7	163.5
87.5°	58.8	60.2
90°	0.0	0.0

(END OF REPORT)