

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: P1213178

Luminaire Tested: 4SNLED-LD5-76SL-RW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213178
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-LD5-76SL-RW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

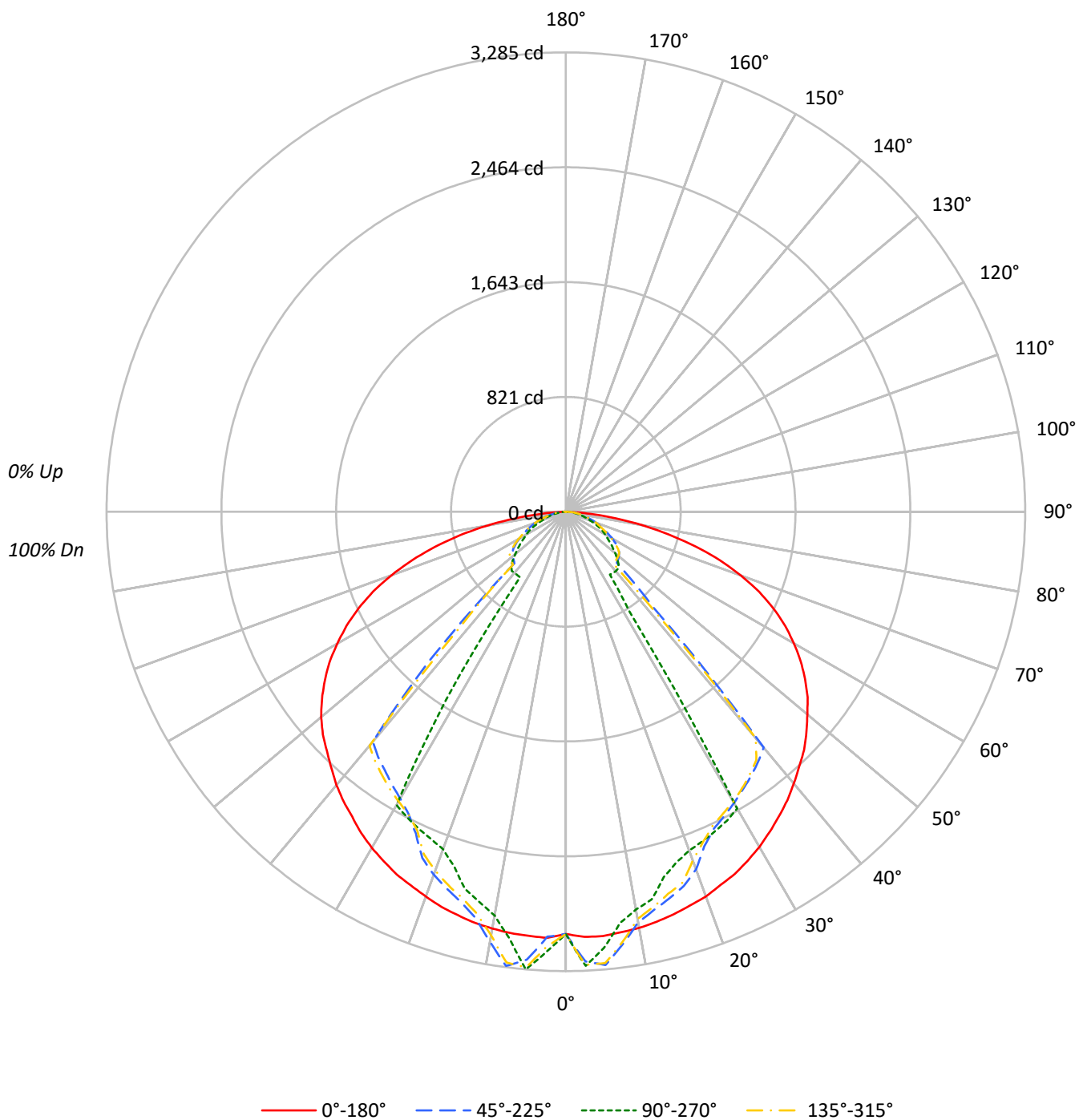
Lumens per Lamp: N/A
Luminaire Lumens: 6046.0 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 70
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	24398	24398	24398	24398
5°	24637	24582	24626	25799
10°	24662	22225	24695	22565
15°	24716	20563	24774	21215
20°	24896	19503	24896	19430
25°	25111	19131	25148	18952
30°	25365	18793	25429	18571
35°	25661	4280	25714	4464
40°	26072	4452	26228	4595
45°	26696	4426	26788	4588
50°	27319	4003	27689	4110
55°	28161	3553	28385	3605
60°	28874	3158	28938	3199
65°	29384	2755	29309	2712
70°	28964	2220	28874	2140
75°	26891	1710	27084	1637
80°	21825	1214	22699	1111
85°	11819	727	12475	557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 29585 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.1	4.9
10°-20°	816.8	13.5
20°-30°	1209.8	20.0
30°-40°	1218.9	20.2
40°-50°	952.2	15.7
50°-60°	735.5	12.2
60°-70°	493.8	8.2
70°-80°	251.9	4.2
80°-90°	70.1	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°	2323.6	38.4
0°-40°	3542.5	58.6
0°-60°	5230.2	86.5
0°-90°	6046.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6046.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3019	3019	3019	3019	3019	
5°	3046	3130	3044	3285	3046	290
15°	2979	2705	2986	2791	2979	843
25°	2857	2521	2862	2498	2857	1318
35°	2658	548	2664	572	2658	1666
45°	2409	533	2417	552	2409	1858
55°	2088	387	2105	393	2088	1865
65°	1640	260	1636	256	1640	1613
75°	962	132	969	126	962	1006
85°	173	42	183	32	173	238
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°	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2
2.5°	3042.7	3053.8	3062.1	3067.6	3070.4	3070.4	3071.8	3073.2	3091.2	3099.5	3105.0
5°	3045.5	3056.6	3073.2	3095.3	3114.7	3131.3	3145.1	3164.5	3183.9	3204.6	3211.6
7.5°	3033.1	3046.9	3080.1	3120.2	3157.6	3183.9	3201.9	3214.3	3224.0	3225.4	3232.3
10°	3022.0	3046.9	3092.6	3145.1	3192.2	3224.0	3224.0	3217.1	3226.8	3189.4	3152.1
12.5°	3002.6	3030.3	3092.6	3161.7	3206.0	3218.5	3212.9	3185.3	3128.5	3082.9	3062.1
15°	2979.1	3016.4	3093.9	3171.4	3208.8	3212.9	3160.4	3089.8	3046.9	3019.2	2984.6
17.5°	2952.8	3002.6	3095.3	3172.8	3186.6	3167.3	3067.6	3023.4	2979.1	2914.1	2867.0
20°	2927.9	2976.3	3084.3	3153.4	3161.7	3074.6	2997.1	2950.0	2875.3	2818.6	2797.8
22.5°	2889.1	2945.9	3074.6	3127.1	3095.3	2994.3	2919.6	2844.9	2777.1	2760.5	2735.6
25°	2857.3	2916.8	3052.4	3095.3	3010.9	2921.0	2833.8	2746.6	2714.8	2691.3	2669.1
27.5°	2814.4	2887.8	3023.4	3037.2	2921.0	2842.1	2714.8	2676.1	2647.0	2620.7	2611.0
30°	2767.4	2857.3	2983.2	2957.0	2846.3	2730.0	2635.9	2600.0	2579.2	2551.5	2540.5
32.5°	2713.4	2811.7	2939.0	2864.2	2766.0	2620.7	2559.8	2532.2	2504.5	2483.7	2414.5
35°	2658.1	2771.5	2886.4	2775.7	2669.1	2537.7	2483.7	2458.8	2432.5	2356.4	2284.5
37.5°	2601.3	2727.3	2822.7	2680.2	2540.5	2451.9	2406.2	2378.6	2319.1	2222.2	2186.2
40°	2536.3	2673.3	2741.1	2582.0	2428.4	2364.7	2321.8	2294.2	2159.9	2117.0	2106.0
42.5°	2471.3	2620.7	2641.5	2486.5	2335.7	2272.0	2236.0	2144.7	2053.4	2031.3	2035.4
45°	2409.0	2564.0	2532.2	2350.9	2238.8	2186.2	2125.4	1999.4	1951.0	1962.1	1964.8
47.5°	2334.3	2496.2	2417.3	2215.3	2139.2	2086.6	1951.0	1874.9	1868.0	1883.2	1891.5
50°	2254.0	2420.1	2295.5	2092.1	2031.3	1969.0	1815.4	1776.7	1785.0	1800.2	1809.9
52.5°	2179.3	2334.3	2169.6	1977.3	1924.7	1782.2	1678.4	1685.3	1699.2	1717.2	1722.7
55°	2088.0	2230.5	2035.4	1861.1	1811.3	1624.5	1577.4	1594.0	1607.9	1623.1	1634.1
57.5°	1992.5	2111.5	1876.3	1731.0	1650.7	1484.7	1488.9	1499.9	1509.6	1527.6	631.0
60°	1883.2	1975.9	1701.9	1610.6	1451.5	1374.0	1378.2	1397.5	1407.2	785.9	434.5
62.5°	1769.7	1818.2	1544.2	1473.6	1268.8	1263.3	1282.7	1291.0	878.6	415.1	406.8
65°	1639.7	1630.0	1389.2	1277.1	1144.3	1149.8	1170.6	1129.1	388.8	388.8	386.1
67.5°	1495.8	1437.7	1238.4	1057.1	1023.9	1036.4	1058.5	369.4	359.8	362.5	352.8
70°	1331.1	1249.5	1082.0	895.2	906.3	918.8	357.0	334.9	330.7	323.8	304.4
72.5°	1156.8	1044.7	885.6	777.6	784.6	492.6	312.7	301.6	287.8	274.0	253.2
75°	961.7	816.4	650.3	650.3	660.0	280.9	272.6	254.6	239.4	221.4	208.9
77.5°	754.1	628.2	505.0	524.4	256.0	235.2	220.0	200.6	188.2	177.1	170.2
80°	552.1	438.6	380.5	340.4	199.3	178.5	163.3	152.2	146.7	139.8	131.5
82.5°	362.5	264.3	264.3	160.5	139.8	123.1	119.0	110.7	105.2	101.0	96.9
85°	173.0	153.6	116.2	98.2	87.2	78.9	76.1	72.0	72.0	70.6	69.2
87.5°	63.6	69.2	51.2	49.8	47.0	45.7	47.0	47.0	48.4	47.0	45.7
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°	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2
2.5°	3118.8	3129.9	3138.2	3152.1	3170.0	3185.3	3199.1	3218.5	3248.9	3257.2	3264.1
5°	3211.6	3215.7	3225.4	3236.5	3239.2	3246.1	3244.8	3253.1	3257.2	3266.9	3246.1
7.5°	3217.1	3194.9	3168.7	3145.1	3128.5	3113.3	3103.6	3118.8	3127.1	3134.1	3113.3
10°	3100.9	3074.6	3059.3	3045.5	3028.9	3005.4	2973.6	2980.5	2977.7	2977.7	2970.8
12.5°	3027.5	2990.2	2951.4	2916.8	2901.6	2900.2	2901.6	2916.8	2916.8	2915.4	2907.1
15°	2912.7	2876.7	2857.3	2849.0	2849.0	2844.9	2844.9	2861.5	2857.3	2857.3	2853.2
17.5°	2836.6	2811.7	2797.8	2788.1	2784.0	2790.9	2799.2	2806.1	2807.5	2802.0	2779.8
20°	2774.3	2750.8	2734.2	2736.9	2735.6	2739.7	2743.9	2720.3	2691.3	2652.5	2634.6
22.5°	2709.3	2691.3	2678.8	2678.8	2662.2	2635.9	2597.2	2588.9	2584.7	2566.7	2551.5
25°	2647.0	2626.2	2608.3	2552.9	2518.3	2522.5	2515.6	2501.7	2500.3	2498.9	2504.5
27.5°	2584.7	2530.8	2461.6	2453.3	2439.4	2438.1	2446.4	2453.3	2453.3	2458.8	2465.7
30°	2456.1	2393.8	2381.3	2366.1	2371.6	2391.0	2395.2	2404.9	2407.6	2417.3	2422.8
32.5°	2338.4	2310.8	2299.7	2306.6	2324.6	2341.2	2350.9	2355.0	2362.0	2370.3	2377.2
35°	2243.0	2234.7	2244.3	2259.6	2277.6	2291.4	2299.7	2308.0	2314.9	2321.8	2327.4
37.5°	2172.4	2177.9	2191.8	2211.1	2229.1	2240.2	2247.1	2256.8	2266.5	2274.8	2241.6
40°	2106.0	2119.8	2135.0	2155.8	2171.0	2182.1	2189.0	2201.5	2118.4	958.9	525.8
42.5°	2047.9	2063.1	2074.2	2090.8	2107.4	2115.7	2054.8	917.4	518.9	516.1	523.0
45°	1977.3	1989.7	2007.7	2020.2	2035.4	1336.6	510.6	516.1	507.8	513.3	516.1
47.5°	1905.3	1924.7	1934.4	1845.8	549.3	507.8	502.3	507.8	502.3	509.2	505.0
50°	1823.7	1847.2	1314.5	496.7	492.6	489.8	495.4	492.6	496.7	502.3	491.2
52.5°	1740.7	1077.9	481.5	478.8	481.5	478.8	488.4	481.5	482.9	477.4	463.5
55°	589.5	466.3	462.2	460.8	469.1	469.1	469.1	458.0	451.1	437.2	427.6
57.5°	451.1	451.1	449.7	451.1	448.3	445.5	433.1	423.4	413.7	394.4	388.8
60°	427.6	427.6	427.6	427.6	415.1	409.6	390.2	381.9	365.3	355.6	350.1
62.5°	408.2	405.4	393.0	388.8	375.0	359.8	348.7	340.4	323.8	318.2	314.1
65°	380.5	370.8	355.6	339.0	332.1	315.5	309.9	297.5	289.2	285.0	282.3
67.5°	334.9	321.0	308.6	297.5	285.0	279.5	272.6	262.9	257.4	254.6	251.8
70°	286.4	276.7	264.3	257.4	249.1	244.9	235.2	232.5	228.3	224.2	220.0
72.5°	239.4	233.8	228.3	218.6	215.9	213.1	203.4	197.9	192.3	186.8	184.0
75°	200.6	196.5	193.7	185.4	181.3	173.0	166.0	161.9	157.7	153.6	150.8
77.5°	164.7	161.9	153.6	148.1	145.3	138.4	135.6	137.0	134.2	128.7	125.9
80°	128.7	125.9	119.0	119.0	116.2	113.5	110.7	107.9	105.2	101.0	98.2
82.5°	98.2	95.5	92.7	89.9	87.2	85.8	84.4	81.6	78.9	76.1	74.7
85°	69.2	67.8	66.4	65.0	63.6	62.3	60.9	58.1	55.3	54.0	52.6
87.5°	47.0	45.7	44.3	42.9	41.5	40.1	38.7	37.4	34.6	33.2	31.8
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°	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2
2.5°	3264.1	3271.0	3264.1	3248.9	3239.2	3235.1	3243.4	3243.4	3248.9	3255.8	3257.2
5°	3212.9	3196.3	3177.0	3157.6	3147.9	3142.4	3127.1	3129.9	3134.1	3136.8	3139.6
7.5°	3085.6	3063.5	3037.2	3012.3	3002.6	2994.3	2976.3	2976.3	2976.3	2977.7	2986.0
10°	2955.6	2945.9	2934.8	2918.2	2905.8	2901.6	2886.4	2890.5	2887.8	2891.9	2901.6
12.5°	2894.7	2883.6	2873.9	2857.3	2843.5	2838.0	2831.0	2835.2	2833.8	2840.7	2849.0
15°	2839.3	2833.8	2822.7	2810.3	2797.8	2786.8	2761.9	2753.5	2748.0	2741.1	2750.8
17.5°	2748.0	2709.3	2683.0	2663.6	2649.8	2640.1	2633.2	2633.2	2637.3	2641.5	2649.8
20°	2623.5	2612.4	2600.0	2579.2	2565.4	2559.8	2555.7	2555.7	2562.6	2568.1	2583.4
22.5°	2537.7	2536.3	2532.2	2522.5	2515.6	2515.6	2516.9	2519.7	2529.4	2537.7	2552.9
25°	2497.6	2503.1	2500.3	2494.8	2490.6	2492.0	2489.3	2492.0	2501.7	2510.0	2522.5
27.5°	2465.7	2474.0	2471.3	2463.0	2456.1	2458.8	2463.0	2460.2	2468.5	2478.2	2487.9
30°	2422.8	2424.2	2429.8	2420.1	2417.3	2421.5	2422.8	2425.6	2433.9	2440.8	2449.1
32.5°	2374.4	2385.5	2384.1	2374.4	2374.4	2378.6	2380.0	2287.2	2114.3	1820.9	1740.7
35°	2327.4	2339.8	2319.1	1955.2	1353.3	722.3	557.6	538.3	542.4	545.2	547.9
37.5°	1721.3	816.4	520.3	524.4	528.6	532.7	536.9	541.0	545.2	549.3	550.7
40°	517.5	516.1	520.3	525.8	530.0	532.7	538.3	542.4	546.6	550.7	552.1
42.5°	512.0	514.7	518.9	524.4	530.0	535.5	539.6	545.2	547.9	550.7	552.1
45°	509.2	514.7	520.3	524.4	528.6	531.3	534.1	535.5	534.1	534.1	536.9
47.5°	505.0	510.6	512.0	510.6	512.0	510.6	510.6	510.6	506.4	505.0	505.0
50°	489.8	489.8	487.1	481.5	480.1	478.8	476.0	474.6	469.1	467.7	467.7
52.5°	458.0	456.6	452.5	445.5	442.8	440.0	438.6	437.2	431.7	428.9	430.3
55°	420.6	417.9	413.7	405.4	404.0	401.3	399.9	398.5	393.0	395.7	391.6
57.5°	386.1	380.5	375.0	373.6	368.1	366.7	365.3	363.9	359.8	361.1	358.4
60°	344.5	343.2	340.4	334.9	334.9	333.5	333.5	330.7	327.9	326.6	326.6
62.5°	314.1	309.9	307.2	307.2	303.0	303.0	303.0	300.3	297.5	298.9	297.5
65°	280.9	279.5	278.1	275.4	275.4	274.0	274.0	271.2	267.1	268.4	265.7
67.5°	253.2	250.4	247.7	246.3	240.8	238.0	236.6	235.2	229.7	231.1	228.3
70°	218.6	214.5	211.7	208.9	204.8	202.0	202.0	199.3	195.1	196.5	193.7
72.5°	182.6	179.9	177.1	175.7	171.6	170.2	168.8	167.4	163.3	164.7	163.3
75°	152.2	152.2	150.8	149.4	145.3	141.1	138.4	137.0	134.2	135.6	132.8
77.5°	125.9	123.1	120.4	120.4	116.2	113.5	110.7	110.7	110.7	109.3	107.9
80°	98.2	95.5	95.5	94.1	91.3	88.6	87.2	87.2	85.8	85.8	84.4
82.5°	74.7	72.0	70.6	70.6	67.8	66.4	65.0	63.6	63.6	63.6	62.3
85°	52.6	49.8	48.4	48.4	45.7	44.3	44.3	42.9	42.9	41.5	41.5
87.5°	31.8	30.4	29.1	29.1	26.3	24.9	24.9	24.9	23.5	23.5	22.1
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: P1213178

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2
2.5°	3257.2	3257.2	3247.5	3250.3	3246.1	3251.7	3244.8	3244.8	3253.1	3253.1	3258.6
5°	3141.0	3134.1	3132.7	3129.9	3116.1	3121.6	3114.7	3107.8	3117.5	3117.5	3129.9
7.5°	2981.9	2969.4	2974.9	2966.6	2958.3	2945.9	2950.0	2944.5	2951.4	2961.1	2973.6
10°	2900.2	2889.1	2896.1	2887.8	2891.9	2873.9	2875.3	2876.7	2883.6	2886.4	2897.5
12.5°	2847.6	2844.9	2842.1	2839.3	2842.1	2832.4	2826.9	2828.3	2831.0	2832.4	2840.7
15°	2736.9	2719.0	2724.5	2705.1	2706.5	2707.9	2696.8	2707.9	2706.5	2724.5	2741.1
17.5°	2647.0	2647.0	2637.3	2629.0	2623.5	2622.1	2613.8	2619.3	2613.8	2624.9	2629.0
20°	2584.7	2583.4	2582.0	2577.8	2564.0	2565.4	2569.5	2557.1	2555.7	2554.3	2562.6
22.5°	2555.7	2557.1	2551.5	2551.5	2539.1	2541.8	2543.2	2529.4	2530.8	2526.6	2530.8
25°	2525.2	2528.0	2521.1	2521.1	2518.3	2516.9	2510.0	2512.8	2504.5	2497.6	2504.5
27.5°	2489.3	2494.8	2489.3	2492.0	2486.5	2483.7	2479.6	2476.8	2468.5	2467.1	2471.3
30°	2456.1	2458.8	2457.4	2450.5	2449.1	2440.8	2445.0	2436.7	2428.4	2429.8	2432.5
32.5°	1259.2	1202.4	927.1	837.1	828.8	859.3	1018.4	1239.8	1606.5	1962.1	2218.1
35°	549.3	549.3	549.3	547.9	547.9	546.6	545.2	543.8	542.4	541.0	539.6
37.5°	552.1	552.1	552.1	552.1	550.7	549.3	549.3	546.6	545.2	543.8	542.4
40°	553.5	554.9	554.9	554.9	553.5	553.5	552.1	549.3	547.9	545.2	542.4
42.5°	552.1	553.5	553.5	552.1	552.1	550.7	550.7	549.3	547.9	546.6	545.2
45°	534.1	535.5	532.7	532.7	531.3	531.3	531.3	531.3	531.3	532.7	532.7
47.5°	502.3	502.3	500.9	499.5	499.5	498.1	499.5	498.1	500.9	502.3	505.0
50°	464.9	464.9	462.2	460.8	460.8	460.8	460.8	462.2	463.5	466.3	469.1
52.5°	426.2	426.2	424.8	423.4	422.0	422.0	426.2	424.8	426.2	427.6	431.7
55°	388.8	390.2	387.4	387.4	386.1	386.1	386.1	387.4	388.8	390.2	394.4
57.5°	357.0	357.0	354.2	354.2	354.2	352.8	357.0	354.2	355.6	357.0	359.8
60°	325.2	323.8	323.8	322.4	322.4	322.4	325.2	323.8	323.8	325.2	327.9
62.5°	296.1	296.1	294.7	294.7	293.3	293.3	296.1	294.7	294.7	296.1	297.5
65°	262.9	262.9	261.5	260.1	264.3	260.1	264.3	261.5	264.3	265.7	268.4
67.5°	225.5	225.5	225.5	224.2	224.2	226.9	228.3	225.5	226.9	229.7	231.1
70°	192.3	192.3	190.9	190.9	190.9	193.7	195.1	192.3	193.7	195.1	197.9
72.5°	163.3	160.5	160.5	159.1	161.9	161.9	163.3	161.9	163.3	163.3	166.0
75°	134.2	131.5	131.5	131.5	134.2	132.8	134.2	132.8	134.2	134.2	135.6
77.5°	107.9	106.5	105.2	105.2	107.9	107.9	107.9	106.5	107.9	109.3	110.7
80°	84.4	83.0	81.6	81.6	84.4	84.4	84.4	85.8	84.4	85.8	87.2
82.5°	62.3	60.9	59.5	62.3	62.3	62.3	62.3	63.6	62.3	63.6	65.0
85°	41.5	40.1	38.7	41.5	41.5	41.5	41.5	42.9	41.5	42.9	44.3
87.5°	22.1	20.8	20.8	22.1	22.1	22.1	23.5	23.5	23.5	24.9	24.9
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: P1213178

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2
2.5°	3266.9	3271.0	3269.7	3261.4	3253.1	3243.4	3236.5	3237.8	3251.7	3255.8	3243.4
5°	3129.9	3156.2	3156.2	3174.2	3164.5	3156.2	3161.7	3192.2	3207.4	3230.9	3239.2
7.5°	2988.8	3001.2	2999.8	3017.8	3015.1	3015.1	3019.2	3059.3	3078.7	3098.1	3103.6
10°	2909.9	2922.4	2921.0	2922.4	2918.2	2908.5	2908.5	2926.5	2943.1	2952.8	2955.6
12.5°	2853.2	2860.1	2858.7	2858.7	2855.9	2847.6	2846.3	2861.5	2879.5	2891.9	2893.3
15°	2768.8	2788.1	2792.3	2810.3	2806.1	2795.1	2797.8	2810.3	2821.3	2832.4	2828.3
17.5°	2642.9	2652.5	2653.9	2660.8	2658.1	2658.1	2674.7	2720.3	2750.8	2777.1	2779.8
20°	2570.9	2577.8	2575.1	2590.3	2583.4	2582.0	2586.1	2605.5	2619.3	2631.8	2653.9
22.5°	2536.3	2541.8	2537.7	2539.1	2526.6	2515.6	2512.8	2528.0	2543.2	2559.8	2559.8
25°	2507.3	2511.4	2510.0	2507.3	2497.6	2482.3	2479.6	2482.3	2487.9	2489.3	2479.6
27.5°	2472.7	2475.4	2475.4	2476.8	2464.4	2450.5	2447.8	2445.0	2450.5	2449.1	2433.9
30°	2436.7	2432.5	2433.9	2435.3	2424.2	2411.8	2406.2	2404.9	2410.4	2409.0	2393.8
32.5°	2350.9	2382.7	2385.5	2388.3	2378.6	2367.5	2362.0	2357.8	2360.6	2359.2	2345.4
35°	538.3	547.9	671.1	1519.3	2063.1	2284.5	2308.0	2302.5	2303.8	2303.8	2292.8
37.5°	539.6	538.3	536.9	532.7	528.6	525.8	909.1	1938.6	2245.7	2247.1	2237.4
40°	539.6	538.3	536.9	534.1	528.6	524.4	517.5	512.0	524.4	1154.0	2111.5
42.5°	542.4	539.6	536.9	534.1	528.6	523.0	517.5	510.6	514.7	512.0	505.0
45°	534.1	532.7	532.7	531.3	528.6	523.0	516.1	507.8	503.7	507.8	500.9
47.5°	507.8	509.2	513.3	514.7	514.7	516.1	512.0	506.4	499.5	503.7	495.4
50°	471.8	474.6	476.0	482.9	485.7	491.2	492.6	492.6	491.2	496.7	491.2
52.5°	433.1	435.9	442.8	445.5	448.3	456.6	459.4	463.5	466.3	474.6	480.1
55°	395.7	397.1	399.9	405.4	409.6	416.5	420.6	424.8	431.7	435.9	452.5
57.5°	361.1	362.5	368.1	369.4	372.2	377.7	381.9	387.4	393.0	395.7	415.1
60°	327.9	329.3	333.5	334.9	336.2	341.8	345.9	350.1	354.2	357.0	370.8
62.5°	298.9	298.9	303.0	303.0	304.4	308.6	311.3	314.1	318.2	319.6	326.6
65°	269.8	271.2	274.0	274.0	275.4	278.1	279.5	280.9	285.0	285.0	290.6
67.5°	233.8	235.2	239.4	242.1	243.5	249.1	250.4	251.8	254.6	256.0	258.8
70°	199.3	200.6	204.8	206.2	207.6	211.7	214.5	218.6	222.8	226.9	229.7
72.5°	167.4	168.8	173.0	173.0	177.1	178.5	181.3	182.6	186.8	189.6	193.7
75°	137.0	138.4	142.5	142.5	146.7	148.1	149.4	150.8	153.6	156.4	159.1
77.5°	112.1	112.1	117.6	120.4	123.1	123.1	124.5	124.5	124.5	125.9	128.7
80°	88.6	88.6	92.7	95.5	98.2	98.2	99.6	101.0	102.4	102.4	103.8
82.5°	66.4	66.4	70.6	72.0	74.7	74.7	74.7	76.1	77.5	76.1	78.9
85°	45.7	45.7	48.4	49.8	52.6	52.6	52.6	54.0	55.3	54.0	55.3
87.5°	26.3	27.7	29.1	30.4	31.8	33.2	33.2	33.2	34.6	34.6	36.0
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: P1213178

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2
2.5°	3229.5	3212.9	3211.6	3192.2	3186.6	3188.0	3172.8	3167.3	3142.4	3136.8	3110.5
5°	3242.0	3250.3	3246.1	3244.8	3248.9	3246.1	3235.1	3229.5	3225.4	3214.3	3192.2
7.5°	3105.0	3110.5	3114.7	3132.7	3147.9	3174.2	3201.9	3219.9	3233.7	3236.5	3218.5
10°	2965.3	2991.5	3009.5	3037.2	3059.3	3074.6	3091.2	3106.4	3146.5	3186.6	3210.2
12.5°	2893.3	2900.2	2898.8	2914.1	2929.3	2969.4	3008.1	3030.3	3060.7	3078.7	3121.6
15°	2832.4	2833.8	2838.0	2849.0	2857.3	2871.2	2889.1	2922.4	2983.2	3010.9	3034.4
17.5°	2777.1	2777.1	2779.8	2789.5	2800.6	2813.0	2824.1	2838.0	2868.4	2914.1	2972.2
20°	2688.5	2727.3	2731.4	2730.0	2735.6	2759.1	2761.9	2786.8	2802.0	2820.0	2876.7
22.5°	2557.1	2580.6	2613.8	2665.0	2684.4	2695.4	2703.7	2714.8	2738.3	2759.1	2782.6
25°	2485.1	2500.3	2510.0	2525.2	2565.4	2630.4	2642.9	2655.3	2670.5	2685.7	2714.8
27.5°	2421.5	2420.1	2427.0	2440.8	2451.9	2486.5	2547.4	2595.8	2598.6	2620.7	2645.6
30°	2375.8	2367.5	2357.8	2355.0	2370.3	2388.3	2406.2	2482.3	2534.9	2546.0	2572.3
32.5°	2332.9	2319.1	2305.2	2294.2	2284.5	2299.7	2310.8	2344.0	2411.8	2475.4	2489.3
35°	2280.3	2266.5	2249.9	2237.4	2222.2	2220.8	2219.4	2251.3	2273.4	2349.5	2415.9
37.5°	2226.4	2211.1	2197.3	2183.5	2168.2	2157.2	2150.3	2158.6	2179.3	2212.5	2323.2
40°	2169.6	2151.6	2137.8	2126.7	2106.0	2097.7	2083.8	2078.3	2079.7	2108.7	2166.9
42.5°	1296.5	2067.2	2074.2	2061.7	2043.7	2032.6	2017.4	2010.5	1996.7	2010.5	2043.7
45°	499.5	505.0	1512.4	1998.1	1975.9	1962.1	1948.2	1941.3	1926.1	1915.0	1945.5
47.5°	489.8	495.4	484.3	686.3	1886.0	1890.1	1873.5	1866.6	1851.4	1843.1	1834.8
50°	482.9	487.1	478.8	481.5	471.8	1728.2	1797.4	1789.1	1772.5	1762.8	1746.2
52.5°	476.0	476.0	470.5	463.5	460.8	462.2	1454.3	1710.2	1690.9	1681.2	1659.0
55°	453.9	456.6	462.2	451.1	448.3	446.9	442.8	1385.1	1600.9	1589.9	1570.5
57.5°	420.6	426.2	441.4	438.6	438.6	427.6	424.8	424.8	1285.5	1497.2	1477.8
60°	381.9	387.4	404.0	409.6	413.7	411.0	408.2	406.8	401.3	1354.6	1379.5
62.5°	341.8	347.3	352.8	370.8	376.4	383.3	391.6	387.4	381.9	381.9	1275.8
65°	298.9	307.2	309.9	326.6	333.5	345.9	352.8	362.5	359.8	358.4	365.3
67.5°	261.5	271.2	272.6	279.5	292.0	297.5	305.8	323.8	332.1	334.9	337.6
70°	229.7	235.2	239.4	242.1	250.4	251.8	267.1	279.5	292.0	305.8	309.9
72.5°	197.9	202.0	210.3	207.6	210.3	215.9	224.2	232.5	244.9	264.3	276.7
75°	161.9	164.7	170.2	173.0	178.5	182.6	188.2	195.1	206.2	215.9	232.5
77.5°	130.1	131.5	135.6	137.0	142.5	146.7	156.4	160.5	167.4	174.3	184.0
80°	105.2	105.2	106.5	106.5	110.7	114.8	121.8	125.9	134.2	139.8	139.8
82.5°	80.3	80.3	84.4	84.4	87.2	87.2	91.3	91.3	95.5	98.2	101.0
85°	56.7	58.1	60.9	59.5	62.3	60.9	63.6	66.4	67.8	66.4	65.0
87.5°	37.4	37.4	40.1	38.7	40.1	40.1	42.9	42.9	44.3	44.3	42.9
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: P1213178

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2
2.5°	3100.9	3080.1	3067.6	3052.4	3048.3	3044.1	3049.7	3049.7	3041.4	3034.4	3022.0
5°	3172.8	3150.7	3127.1	3102.2	3078.7	3053.8	3044.1	3042.7	3027.5	3019.2	3015.1
7.5°	3210.2	3199.1	3172.8	3138.2	3102.2	3058.0	3038.6	3027.5	3012.3	3009.5	3009.5
10°	3214.3	3201.9	3188.0	3163.1	3121.6	3063.5	3026.1	3004.0	2990.2	2999.8	3017.8
12.5°	3174.2	3197.7	3185.3	3168.7	3135.4	3064.9	3010.9	2977.7	2973.6	2998.5	3045.5
15°	3071.8	3141.0	3175.6	3159.0	3132.7	3062.1	2986.0	2947.3	2947.3	2998.5	3059.3
17.5°	2994.3	3048.3	3132.7	3146.5	3116.1	3056.6	2962.5	2916.8	2929.3	3004.0	3069.0
20°	2930.7	2963.9	3045.5	3123.0	3093.9	3044.1	2927.9	2880.8	2905.8	2995.7	3082.9
22.5°	2831.0	2897.5	2947.3	3062.1	3071.8	3020.6	2893.3	2836.6	2886.4	2995.7	3075.9
25°	2734.2	2814.4	2867.0	2979.1	3038.6	2991.5	2861.5	2789.5	2865.6	2991.5	3070.4
27.5°	2666.4	2703.7	2799.2	2879.5	2988.8	2952.8	2818.6	2738.3	2839.3	2969.4	3038.6
30°	2594.4	2619.3	2713.4	2789.5	2922.4	2908.5	2774.3	2681.6	2806.1	2948.6	2955.6
32.5°	2515.6	2543.2	2591.7	2702.4	2829.7	2867.0	2724.5	2624.9	2770.2	2916.8	2858.7
35°	2435.3	2456.1	2494.8	2613.8	2721.7	2804.7	2663.6	2559.8	2745.2	2868.4	2766.0
37.5°	2355.0	2377.2	2410.4	2510.0	2608.3	2746.6	2611.0	2494.8	2699.6	2782.6	2669.1
40°	2278.9	2291.4	2326.0	2388.3	2514.2	2687.1	2551.5	2427.0	2652.5	2673.3	2537.7
42.5°	2139.2	2201.5	2233.3	2283.1	2407.6	2605.5	2482.3	2355.0	2600.0	2564.0	2406.2
45°	1988.4	2124.0	2137.8	2187.6	2313.5	2518.3	2417.3	2284.5	2550.1	2469.9	2281.7
47.5°	1865.2	1963.5	2043.7	2085.2	2201.5	2415.9	2356.4	2225.0	2475.4	2350.9	2159.9
50°	1755.9	1808.5	1953.8	1984.2	2067.2	2292.8	2284.5	2155.8	2371.6	2201.5	2040.9
52.5°	1649.4	1686.7	1818.2	1883.2	1951.0	2159.9	2198.7	2088.0	2258.2	2052.0	1920.6
55°	1556.7	1569.1	1641.1	1778.0	1838.9	2025.7	2104.6	2009.1	2114.3	1909.5	1804.3
57.5°	1461.2	1450.1	1502.7	1678.4	1722.7	1888.7	2005.0	1928.9	1998.1	1764.2	1684.0
60°	1361.6	1346.3	1368.5	1484.7	1599.5	1753.1	1887.4	1840.3	1856.9	1620.3	1549.7
62.5°	1257.8	1242.6	1235.6	1309.0	1479.2	1613.4	1768.4	1742.1	1684.0	1488.9	1383.7
65°	1149.8	1134.6	1123.6	1152.6	1346.3	1432.1	1635.5	1628.6	1494.4	1350.5	1165.1
67.5°	350.1	1032.2	1008.7	1007.3	1134.6	1267.5	1491.6	1480.6	1303.4	1202.4	1003.2
70°	315.5	837.1	889.7	877.3	932.6	1100.0	1327.0	1318.7	1118.0	964.4	886.9
72.5°	289.2	296.1	785.9	772.1	784.6	935.4	1155.4	1133.2	947.8	761.0	766.6
75°	247.7	260.1	271.2	651.7	635.1	774.9	968.6	934.0	781.8	628.2	640.6
77.5°	202.0	217.2	225.5	474.6	513.3	552.1	773.5	727.8	538.3	502.3	239.4
80°	150.8	163.3	177.1	189.6	390.2	386.1	574.2	528.6	375.0	312.7	186.8
82.5°	110.7	114.8	123.1	137.0	155.0	258.8	369.4	325.2	260.1	142.5	128.7
85°	69.2	74.7	78.9	83.0	94.1	155.0	182.6	145.3	109.3	87.2	81.6
87.5°	44.3	44.3	42.9	44.3	45.7	55.3	62.3	59.5	47.0	44.3	44.3
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: P1213178

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2
2.5°	3008.1	2988.8	2988.8	2983.2	2987.4	2987.4	2986.0	2987.4	2997.1	3002.6	3012.3
5°	3006.8	3001.2	3013.7	3028.9	3046.9	3069.0	3074.6	3093.9	3111.9	3135.4	3160.4
7.5°	3024.8	3044.1	3067.6	3092.6	3128.5	3154.8	3178.3	3201.9	3218.5	3240.6	3254.4
10°	3051.0	3089.8	3129.9	3161.7	3200.5	3222.6	3237.8	3240.6	3217.1	3179.7	3149.3
12.5°	3088.4	3134.1	3171.4	3201.9	3219.9	3211.6	3167.3	3121.6	3095.3	3056.6	3002.6
15°	3120.2	3161.7	3200.5	3188.0	3139.6	3093.9	3059.3	3005.4	2952.8	2916.8	2893.3
17.5°	3134.1	3174.2	3160.4	3095.3	3049.7	2997.1	2926.5	2885.0	2850.4	2822.7	2808.9
20°	3142.4	3135.4	3060.7	3013.7	2925.1	2876.7	2831.0	2792.3	2766.0	2752.2	2749.4
22.5°	3120.2	3035.8	2972.2	2887.8	2822.7	2782.6	2746.6	2714.8	2696.8	2685.7	2678.8
25°	3046.9	2948.6	2854.6	2788.1	2732.8	2698.2	2670.5	2644.2	2622.1	2616.6	2602.7
27.5°	2944.5	2864.2	2739.7	2688.5	2640.1	2623.5	2593.0	2566.7	2547.4	2530.8	2486.5
30°	2860.1	2732.8	2642.9	2595.8	2566.7	2547.4	2512.8	2485.1	2451.9	2391.0	2366.1
32.5°	2756.3	2630.4	2544.6	2518.3	2482.3	2465.7	2427.0	2366.1	2314.9	2290.0	2288.6
35°	2622.1	2518.3	2456.1	2432.5	2403.5	2375.8	2295.5	2240.2	2215.3	2218.1	2238.8
37.5°	2510.0	2417.3	2377.2	2344.0	2310.8	2240.2	2172.4	2146.1	2153.0	2166.9	2176.5
40°	2396.6	2326.0	2280.3	2254.0	2179.3	2110.1	2074.2	2083.8	2096.3	2106.0	2118.4
42.5°	2285.9	2236.0	2190.4	2139.2	2036.8	1999.4	2007.7	2020.2	2031.3	2045.1	2057.6
45°	2180.7	2136.4	2083.8	1967.6	1916.4	1926.1	1938.6	1948.2	1964.8	1974.5	1987.0
47.5°	2081.1	2034.0	1941.3	1838.9	1833.4	1852.8	1863.8	1876.3	1888.7	1863.8	1028.1
50°	1969.0	1920.6	1779.4	1740.7	1753.1	1771.1	1785.0	1797.4	1600.9	636.5	489.8
52.5°	1858.3	1735.2	1645.2	1656.3	1668.7	1689.5	1699.2	1261.9	502.3	478.8	480.1
55°	1735.2	1577.4	1551.1	1565.0	1576.0	1596.8	1058.5	463.5	460.8	459.4	470.5
57.5°	1541.4	1446.0	1457.0	1470.9	1481.9	1046.1	451.1	448.3	449.7	451.1	452.5
60°	1368.5	1347.7	1360.2	1372.6	971.4	435.9	427.6	428.9	434.5	430.3	419.3
62.5°	1231.5	1248.1	1260.5	1104.2	413.7	409.6	413.7	409.6	399.9	393.0	379.1
65°	1126.3	1142.9	1152.6	388.8	387.4	393.0	388.8	375.0	359.8	340.4	336.2
67.5°	1015.6	1032.2	369.4	359.8	365.3	358.4	341.8	325.2	314.1	297.5	290.6
70°	900.8	386.1	334.9	333.5	323.8	312.7	294.7	278.1	264.3	257.4	250.4
72.5°	650.3	305.8	301.6	290.6	274.0	258.8	243.5	233.8	226.9	222.8	218.6
75°	271.2	265.7	253.2	233.8	217.2	210.3	199.3	192.3	189.6	181.3	178.5
77.5°	226.9	215.9	197.9	184.0	174.3	170.2	161.9	153.6	149.4	148.1	142.5
80°	174.3	159.1	150.8	143.9	141.1	131.5	121.8	117.6	114.8	113.5	109.3
82.5°	119.0	113.5	107.9	98.2	98.2	94.1	89.9	87.2	84.4	84.4	81.6
85°	77.5	73.3	72.0	67.8	67.8	65.0	63.6	62.3	60.9	59.5	58.1
87.5°	44.3	44.3	45.7	44.3	44.3	42.9	41.5	40.1	38.7	38.7	36.0
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: P1213178

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2
2.5°	3024.8	3038.6	3041.4	3088.4	3114.7	3113.3	3105.0	3129.9	3114.7	3106.4	3114.7
5°	3185.3	3201.9	3215.7	3266.9	3284.9	3293.2	3291.8	3305.6	3294.6	3284.9	3284.9
7.5°	3264.1	3269.7	3275.2	3262.7	3254.4	3240.6	3219.9	3189.4	3174.2	3157.6	3136.8
10°	3134.1	3116.1	3123.0	3098.1	3077.3	3062.1	3042.7	3017.8	2997.1	2981.9	2958.3
12.5°	2974.9	2973.6	2976.3	2980.5	2959.7	2947.3	2932.0	2914.1	2898.8	2882.2	2862.9
15°	2878.1	2879.5	2890.5	2886.4	2879.5	2872.5	2855.9	2850.4	2836.6	2818.6	2807.5
17.5°	2808.9	2815.8	2826.9	2821.3	2810.3	2803.4	2790.9	2778.5	2766.0	2752.2	2735.6
20°	2748.0	2754.9	2761.9	2754.9	2734.2	2724.5	2707.9	2669.1	2641.5	2613.8	2588.9
22.5°	2681.6	2685.7	2680.2	2658.1	2605.5	2580.6	2561.2	2550.1	2526.6	2511.4	2496.2
25°	2598.6	2575.1	2539.1	2514.2	2493.4	2482.3	2474.0	2472.7	2469.9	2467.1	2460.2
27.5°	2463.0	2454.7	2435.3	2425.6	2427.0	2431.1	2432.5	2436.7	2432.5	2427.0	2421.5
30°	2362.0	2366.1	2367.5	2370.3	2377.2	2381.3	2382.7	2388.3	2385.5	2381.3	2378.6
32.5°	2298.3	2308.0	2313.5	2321.8	2326.0	2332.9	2332.9	2341.2	2332.9	2331.5	2328.8
35°	2245.7	2254.0	2256.8	2269.3	2273.4	2280.3	2280.3	2287.2	2280.3	2209.8	1744.8
37.5°	2193.2	2201.5	2207.0	2218.1	2219.4	2223.6	2052.0	1501.3	968.6	750.0	572.8
40°	2130.9	2140.6	2146.1	2150.3	1511.0	958.9	660.0	536.9	536.9	541.0	545.2
42.5°	2064.5	2071.4	1443.2	839.9	523.0	521.7	525.8	530.0	534.1	539.6	545.2
45°	1623.1	819.1	520.3	507.8	512.0	517.5	523.0	528.6	535.5	541.0	543.8
47.5°	532.7	499.5	506.4	500.9	507.8	514.7	520.3	525.8	527.2	528.6	527.2
50°	492.6	492.6	496.7	496.7	502.3	505.0	505.0	505.0	499.5	498.1	494.0
52.5°	476.0	487.1	481.5	484.3	481.5	477.4	473.2	469.1	460.8	458.0	452.5
55°	467.7	471.8	458.0	453.9	448.3	437.2	431.7	426.2	419.3	416.5	409.6
57.5°	448.3	438.6	423.4	416.5	406.8	395.7	390.2	386.1	379.1	376.4	372.2
60°	412.3	393.0	383.3	375.0	363.9	354.2	350.1	347.3	341.8	340.4	336.2
62.5°	368.1	351.5	343.2	332.1	323.8	318.2	314.1	312.7	307.2	307.2	304.4
65°	319.6	311.3	304.4	293.3	289.2	283.7	282.3	280.9	278.1	276.7	274.0
67.5°	280.9	275.4	265.7	260.1	257.4	253.2	250.4	247.7	242.1	239.4	235.2
70°	246.3	242.1	232.5	228.3	222.8	215.9	211.7	208.9	204.8	202.0	197.9
72.5°	213.1	200.6	193.7	189.6	185.4	178.5	177.1	174.3	170.2	168.8	164.7
75°	171.6	161.9	157.7	155.0	150.8	146.7	146.7	146.7	142.5	141.1	139.8
77.5°	137.0	131.5	128.7	125.9	124.5	121.8	117.6	116.2	112.1	112.1	110.7
80°	105.2	102.4	99.6	98.2	96.9	94.1	91.3	89.9	85.8	85.8	84.4
82.5°	77.5	76.1	74.7	73.3	72.0	70.6	66.4	65.0	62.3	62.3	60.9
85°	55.3	54.0	51.2	49.8	49.8	48.4	44.3	42.9	40.1	40.1	40.1
87.5°	34.6	33.2	31.8	30.4	29.1	27.7	24.9	23.5	23.5	20.8	19.4
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: P1213178

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2
2.5°	3098.1	3121.6	3118.8	3135.4	3139.6	3147.9	3150.7	3152.1	3131.3	3147.9	3149.3
5°	3280.7	3284.9	3287.7	3294.6	3301.5	3302.9	3296.0	3287.7	3290.4	3284.9	3271.0
7.5°	3134.1	3113.3	3109.2	3103.6	3100.9	3098.1	3085.6	3096.7	3084.3	3078.7	3059.3
10°	2954.2	2934.8	2933.4	2933.4	2937.6	2936.2	2933.4	2927.9	2939.0	2932.0	2927.9
12.5°	2860.1	2853.2	2857.3	2854.6	2865.6	2868.4	2865.6	2865.6	2862.9	2857.3	2860.1
15°	2803.4	2797.8	2802.0	2797.8	2806.1	2807.5	2800.6	2804.7	2797.8	2790.9	2788.1
17.5°	2728.6	2716.2	2706.5	2692.7	2694.0	2691.3	2683.0	2683.0	2676.1	2658.1	2659.5
20°	2584.7	2572.3	2566.7	2566.7	2573.7	2576.4	2575.1	2577.8	2570.9	2568.1	2557.1
22.5°	2494.8	2493.4	2496.2	2503.1	2514.2	2529.4	2530.8	2530.8	2530.8	2529.4	2515.6
25°	2463.0	2463.0	2465.7	2475.4	2483.7	2494.8	2497.6	2500.3	2497.6	2497.6	2485.1
27.5°	2427.0	2424.2	2429.8	2439.4	2449.1	2457.4	2464.4	2465.7	2461.6	2461.6	2465.7
30°	2382.7	2381.3	2388.3	2397.9	2406.2	2414.5	2421.5	2427.0	2421.5	2421.5	2417.3
32.5°	2337.1	2337.1	2339.8	2281.7	2115.7	1905.3	1909.5	1787.7	1703.3	1596.8	1737.9
35°	1458.4	1061.3	911.9	772.1	673.9	610.2	608.8	588.1	578.4	571.5	570.1
37.5°	550.7	553.5	559.0	561.8	565.9	568.7	570.1	570.1	570.1	570.1	568.7
40°	549.3	554.9	559.0	563.2	567.3	570.1	570.1	571.5	572.8	572.8	572.8
42.5°	550.7	556.2	561.8	565.9	568.7	570.1	571.5	572.8	572.8	572.8	572.8
45°	549.3	552.1	552.1	553.5	553.5	553.5	554.9	554.9	553.5	552.1	554.9
47.5°	528.6	528.6	524.4	523.0	521.7	518.9	520.3	518.9	517.5	516.1	518.9
50°	492.6	487.1	484.3	481.5	480.1	477.4	478.8	477.4	476.0	473.2	477.4
52.5°	449.7	448.3	442.8	440.0	438.6	440.0	437.2	435.9	434.5	433.1	434.5
55°	408.2	402.7	401.3	398.5	397.1	398.5	397.1	395.7	394.4	393.0	394.4
57.5°	370.8	366.7	365.3	362.5	362.5	362.5	362.5	361.1	359.8	358.4	359.8
60°	334.9	332.1	330.7	330.7	329.3	329.3	329.3	327.9	326.6	326.6	327.9
62.5°	304.4	304.4	300.3	298.9	298.9	300.3	298.9	297.5	296.1	294.7	297.5
65°	272.6	267.1	265.7	262.9	260.1	261.5	260.1	258.8	257.4	256.0	258.8
67.5°	233.8	232.5	226.9	224.2	222.8	224.2	222.8	221.4	220.0	218.6	221.4
70°	196.5	196.5	190.9	189.6	188.2	188.2	186.8	186.8	185.4	184.0	186.8
72.5°	163.3	163.3	161.9	159.1	157.7	156.4	155.0	153.6	153.6	155.0	155.0
75°	135.6	132.8	127.3	128.7	127.3	125.9	125.9	124.5	123.1	125.9	124.5
77.5°	106.5	105.2	101.0	102.4	101.0	99.6	99.6	98.2	96.9	98.2	98.2
80°	80.3	80.3	78.9	77.5	77.5	76.1	74.7	74.7	73.3	74.7	74.7
82.5°	58.1	58.1	56.7	55.3	54.0	54.0	52.6	52.6	52.6	52.6	52.6
85°	37.4	36.0	36.0	33.2	33.2	33.2	31.8	31.8	31.8	31.8	31.8
87.5°	18.0	18.0	16.6	16.6	15.2	13.8	13.8	12.5	12.5	13.8	13.8
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: P1213178

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2
2.5°	3124.4	3142.4	3127.1	3134.1	3135.4	3159.0	3157.6	3163.1	3153.4	3142.4	3127.1
5°	3283.5	3275.2	3264.1	3290.4	3276.6	3293.2	3298.7	3309.8	3309.8	3308.4	3296.0
7.5°	3080.1	3062.1	3075.9	3085.6	3089.8	3078.7	3100.9	3125.8	3146.5	3159.0	3160.4
10°	2921.0	2926.5	2925.1	2929.3	2939.0	2937.6	2951.4	2965.3	2970.8	2979.1	2981.9
12.5°	2846.3	2844.9	2847.6	2857.3	2862.9	2861.5	2875.3	2883.6	2886.4	2887.8	2886.4
15°	2786.8	2777.1	2784.0	2785.4	2789.5	2789.5	2806.1	2818.6	2824.1	2826.9	2824.1
17.5°	2674.7	2651.2	2673.3	2673.3	2688.5	2685.7	2712.0	2732.8	2743.9	2752.2	2752.2
20°	2564.0	2552.9	2561.2	2558.4	2569.5	2568.1	2584.7	2598.6	2608.3	2615.2	2623.5
22.5°	2519.7	2522.5	2510.0	2511.4	2511.4	2510.0	2518.3	2525.2	2528.0	2532.2	2529.4
25°	2490.6	2493.4	2489.3	2482.3	2479.6	2482.3	2486.5	2494.8	2496.2	2493.4	2483.7
27.5°	2461.6	2453.3	2460.2	2447.8	2445.0	2450.5	2456.1	2457.4	2458.8	2458.8	2450.5
30°	2417.3	2410.4	2417.3	2411.8	2406.2	2411.8	2415.9	2415.9	2418.7	2420.1	2410.4
32.5°	1689.5	1703.3	1927.5	2063.1	2254.0	2350.9	2368.9	2368.9	2371.6	2371.6	2363.3
35°	575.6	577.0	624.0	676.6	788.7	927.1	1108.3	1202.4	1520.7	1901.2	2269.3
37.5°	568.7	567.3	565.9	564.5	563.2	561.8	559.0	557.6	565.9	671.1	910.5
40°	571.5	570.1	567.3	565.9	564.5	561.8	560.4	557.6	554.9	552.1	549.3
42.5°	571.5	570.1	568.7	567.3	565.9	564.5	561.8	559.0	556.2	552.1	547.9
45°	552.1	552.1	553.5	553.5	554.9	554.9	554.9	553.5	553.5	552.1	546.6
47.5°	516.1	516.1	520.3	520.3	523.0	525.8	525.8	528.6	532.7	535.5	536.9
50°	474.6	474.6	478.8	480.1	482.9	487.1	491.2	492.6	496.7	502.3	507.8
52.5°	433.1	433.1	437.2	437.2	440.0	444.2	448.3	449.7	455.2	460.8	467.7
55°	394.4	394.4	397.1	398.5	399.9	402.7	406.8	406.8	412.3	416.5	423.4
57.5°	359.8	362.5	362.5	362.5	363.9	366.7	369.4	369.4	373.6	377.7	383.3
60°	326.6	329.3	329.3	329.3	330.7	332.1	334.9	334.9	337.6	340.4	345.9
62.5°	296.1	298.9	298.9	300.3	300.3	301.6	304.4	303.0	305.8	307.2	311.3
65°	257.4	260.1	261.5	262.9	264.3	267.1	271.2	269.8	274.0	276.7	280.9
67.5°	220.0	222.8	222.8	224.2	225.5	228.3	231.1	231.1	235.2	238.0	243.5
70°	185.4	188.2	188.2	189.6	190.9	193.7	196.5	195.1	199.3	202.0	206.2
72.5°	153.6	156.4	156.4	157.7	157.7	160.5	163.3	166.0	166.0	168.8	171.6
75°	124.5	125.9	127.3	127.3	128.7	130.1	132.8	135.6	137.0	138.4	141.1
77.5°	98.2	99.6	101.0	101.0	102.4	103.8	105.2	110.7	113.5	114.8	114.8
80°	74.7	76.1	76.1	76.1	77.5	78.9	81.6	81.6	87.2	87.2	88.6
82.5°	52.6	54.0	54.0	54.0	55.3	58.1	59.5	60.9	63.6	65.0	65.0
85°	31.8	33.2	33.2	33.2	34.6	36.0	38.7	40.1	41.5	41.5	42.9
87.5°	12.5	13.8	15.2	15.2	16.6	18.0	19.4	20.8	22.1	22.1	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

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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°	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2
2.5°	3110.5	3120.2	3110.5	3116.1	3123.0	3110.5	3081.5	3070.4	3066.3	3049.7	3038.6
5°	3283.5	3283.5	3279.4	3290.4	3289.0	3269.7	3239.2	3225.4	3211.6	3193.6	3179.7
7.5°	3160.4	3171.4	3178.3	3221.2	3248.9	3251.7	3271.0	3275.2	3280.7	3275.2	3266.9
10°	2983.2	2979.1	2998.5	3038.6	3062.1	3074.6	3111.9	3129.9	3145.1	3175.6	3207.4
12.5°	2883.6	2889.1	2897.5	2926.5	2948.6	2943.1	2958.3	2970.8	2988.8	3019.2	3064.9
15°	2817.2	2822.7	2831.0	2853.2	2867.0	2860.1	2868.4	2876.7	2889.1	2904.4	2932.0
17.5°	2745.2	2754.9	2764.6	2788.1	2800.6	2799.2	2806.1	2808.9	2813.0	2822.7	2842.1
20°	2633.2	2663.6	2683.0	2714.8	2732.8	2730.0	2742.5	2746.6	2752.2	2761.9	2770.2
22.5°	2530.8	2539.1	2548.8	2583.4	2613.8	2651.2	2659.5	2670.5	2684.4	2694.0	2702.4
25°	2472.7	2467.1	2471.3	2494.8	2511.4	2514.2	2526.6	2562.6	2600.0	2616.6	2635.9
27.5°	2438.1	2432.5	2431.1	2442.2	2445.0	2438.1	2435.3	2446.4	2474.0	2501.7	2559.8
30°	2400.7	2393.8	2388.3	2397.9	2402.1	2392.4	2374.4	2364.7	2381.3	2388.3	2411.8
32.5°	2356.4	2349.5	2346.7	2352.3	2355.0	2346.7	2327.4	2316.3	2313.5	2308.0	2313.5
35°	2306.6	2299.7	2295.5	2296.9	2302.5	2295.5	2278.9	2265.1	2258.2	2243.0	2231.9
37.5°	1188.6	1684.0	2186.2	2238.8	2244.3	2243.0	2226.4	2211.1	2204.2	2186.2	2180.7
40°	543.8	607.4	911.9	1191.4	1718.5	2183.5	2168.2	2153.0	2140.6	2135.0	2114.3
42.5°	542.4	543.8	545.2	538.3	666.9	1136.0	1677.0	2093.5	2085.2	2071.4	2056.2
45°	542.4	535.5	541.0	532.7	535.5	534.1	665.6	1073.7	1910.9	1996.7	1989.7
47.5°	536.9	532.7	538.3	531.3	523.0	527.2	521.7	528.6	824.7	1398.9	1916.4
50°	512.0	514.7	524.4	523.0	516.1	521.7	512.0	520.3	513.3	563.2	1084.8
52.5°	474.6	480.1	489.8	498.1	500.9	507.8	505.0	507.8	502.3	503.7	505.0
55°	430.3	437.2	445.5	458.0	463.5	474.6	482.9	487.1	494.0	492.6	481.5
57.5°	388.8	395.7	402.7	415.1	427.6	433.1	448.3	456.6	474.6	470.5	467.7
60°	350.1	355.6	362.5	365.3	380.5	390.2	404.0	412.3	435.9	441.4	449.7
62.5°	315.5	318.2	323.8	327.9	337.6	347.3	354.2	368.1	380.5	398.5	411.0
65°	283.7	286.4	290.6	293.3	294.7	308.6	312.7	327.9	332.1	351.5	362.5
67.5°	247.7	253.2	258.8	261.5	264.3	272.6	275.4	282.3	292.0	300.3	314.1
70°	210.3	214.5	220.0	224.2	229.7	235.2	243.5	247.7	254.6	260.1	271.2
72.5°	175.7	179.9	182.6	186.8	190.9	195.1	202.0	211.7	217.2	226.9	229.7
75°	142.5	146.7	149.4	152.2	156.4	159.1	161.9	171.6	177.1	185.4	193.7
77.5°	117.6	117.6	120.4	128.7	127.3	127.3	130.1	135.6	139.8	145.3	153.6
80°	91.3	92.7	94.1	101.0	102.4	103.8	102.4	106.5	110.7	112.1	117.6
82.5°	67.8	69.2	69.2	73.3	77.5	77.5	77.5	78.9	83.0	84.4	87.2
85°	45.7	47.0	48.4	49.8	52.6	54.0	55.3	55.3	58.1	59.5	60.9
87.5°	24.9	27.7	29.1	30.4	31.8	33.2	34.6	36.0	37.4	38.7	40.1
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):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2
2.5°	3034.4	3027.5	3023.4	3012.3	3009.5	2991.5	2994.3	2991.5	2991.5	2995.7	3009.5
5°	3164.5	3131.3	3123.0	3099.5	3080.1	3046.9	3026.1	3015.1	2998.5	2991.5	3001.2
7.5°	3253.1	3228.2	3207.4	3186.6	3159.0	3120.2	3091.2	3058.0	3030.3	3004.0	2997.1
10°	3237.8	3265.5	3265.5	3253.1	3226.8	3188.0	3153.4	3111.9	3063.5	3022.0	2997.1
12.5°	3109.2	3157.6	3196.3	3225.4	3251.7	3225.4	3190.8	3157.6	3103.6	3042.7	2997.1
15°	2968.0	3017.8	3066.3	3127.1	3190.8	3217.1	3215.7	3177.0	3128.5	3064.9	3001.2
17.5°	2868.4	2903.0	2929.3	2995.7	3073.2	3141.0	3186.6	3189.4	3142.4	3085.6	3002.6
20°	2793.7	2818.6	2840.7	2878.1	2945.9	3028.9	3113.3	3160.4	3152.1	3089.8	3006.8
22.5°	2725.9	2743.9	2761.9	2789.5	2843.5	2897.5	2995.7	3092.6	3134.1	3082.9	3002.6
25°	2658.1	2677.4	2691.3	2710.7	2753.5	2797.8	2867.0	2987.4	3080.1	3077.3	2994.3
27.5°	2577.8	2604.1	2620.7	2647.0	2676.1	2709.3	2756.3	2869.8	3002.6	3049.7	2972.2
30°	2481.0	2519.7	2544.6	2573.7	2598.6	2627.6	2665.0	2734.2	2898.8	2995.7	2948.6
32.5°	2341.2	2410.4	2465.7	2493.4	2521.1	2546.0	2579.2	2637.3	2771.5	2922.4	2922.4
35°	2241.6	2273.4	2323.2	2403.5	2438.1	2463.0	2493.4	2539.1	2624.9	2835.2	2879.5
37.5°	2164.1	2176.5	2201.5	2280.3	2345.4	2385.5	2415.9	2445.0	2529.4	2716.2	2824.1
40°	2106.0	2101.8	2099.1	2136.4	2229.1	2292.8	2327.4	2356.4	2421.5	2573.7	2750.8
42.5°	2038.2	2034.0	2020.2	2029.9	2075.5	2182.1	2234.7	2266.5	2320.5	2424.2	2670.5
45°	1967.6	1960.7	1955.2	1945.5	1962.1	2021.6	2129.5	2176.5	2207.0	2299.7	2569.5
47.5°	1895.7	1886.0	1879.1	1870.8	1861.1	1888.7	1991.1	2075.5	2128.1	2186.2	2447.8
50°	1793.3	1805.7	1797.4	1787.7	1779.4	1773.9	1816.8	1955.2	2020.2	2067.2	2299.7
52.5°	845.4	1643.8	1713.0	1703.3	1692.3	1682.6	1692.3	1797.4	1915.0	1952.4	2121.2
55°	481.5	732.0	1523.4	1610.6	1600.9	1587.1	1578.8	1614.8	1790.5	1840.3	1957.9
57.5°	463.5	464.9	672.5	1451.5	1505.5	1493.0	1483.3	1491.6	1641.1	1725.5	1815.4
60°	448.3	448.3	448.3	642.0	1387.8	1392.0	1379.5	1365.7	1430.7	1596.8	1671.5
62.5°	415.1	423.4	427.6	427.6	633.7	1285.5	1273.0	1268.8	1271.6	1441.8	1527.6
65°	372.2	391.6	399.9	405.4	405.4	665.6	1163.7	1156.8	1147.1	1212.1	1382.3
67.5°	325.2	344.5	362.5	373.6	375.0	387.4	694.6	1041.9	1028.1	1029.5	1227.3
70°	276.7	293.3	312.7	329.3	344.5	351.5	362.5	864.8	910.5	891.1	1051.6
72.5°	239.4	246.3	260.1	276.7	294.7	311.3	321.0	344.5	790.1	769.3	799.8
75°	199.3	204.8	214.5	225.5	239.4	258.8	275.4	292.0	419.3	644.8	640.6
77.5°	155.0	164.7	175.7	182.6	189.6	203.4	225.5	242.1	258.8	435.9	513.3
80°	119.0	125.9	131.5	138.4	146.7	156.4	164.7	184.0	203.4	218.6	393.0
82.5°	88.6	92.7	96.9	99.6	102.4	107.9	123.1	130.1	142.5	156.4	185.4
85°	62.3	65.0	67.8	69.2	70.6	72.0	77.5	78.9	91.3	94.1	112.1
87.5°	40.1	41.5	44.3	45.7	45.7	47.0	48.4	48.4	48.4	45.7	55.3
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: P1213178

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CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	3019.2	3019.2
2.5°	3020.6	3042.7
5°	3016.4	3045.5
7.5°	3005.4	3033.1
10°	2988.8	3022.0
12.5°	2970.8	3002.6
15°	2955.6	2979.1
17.5°	2939.0	2952.8
20°	2916.8	2927.9
22.5°	2894.7	2889.1
25°	2869.8	2857.3
27.5°	2838.0	2814.4
30°	2808.9	2767.4
32.5°	2781.2	2713.4
35°	2743.9	2658.1
37.5°	2705.1	2601.3
40°	2659.5	2536.3
42.5°	2611.0	2471.3
45°	2550.1	2409.0
47.5°	2496.2	2334.3
50°	2421.5	2254.0
52.5°	2330.1	2179.3
55°	2222.2	2088.0
57.5°	2106.0	1992.5
60°	1981.4	1883.2
62.5°	1830.6	1769.7
65°	1653.5	1639.7
67.5°	1422.4	1495.8
70°	1166.5	1331.1
72.5°	975.5	1156.8
75°	799.8	961.7
77.5°	633.7	754.1
80°	395.7	552.1
82.5°	265.7	362.5
85°	160.5	173.0
87.5°	62.3	63.6
90°	0.0	0.0

(END OF REPORT)