

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: P1213187

Luminaire Tested: 4SNLED-LD5-84SL-RW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213187
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-LD5-84SL-RW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

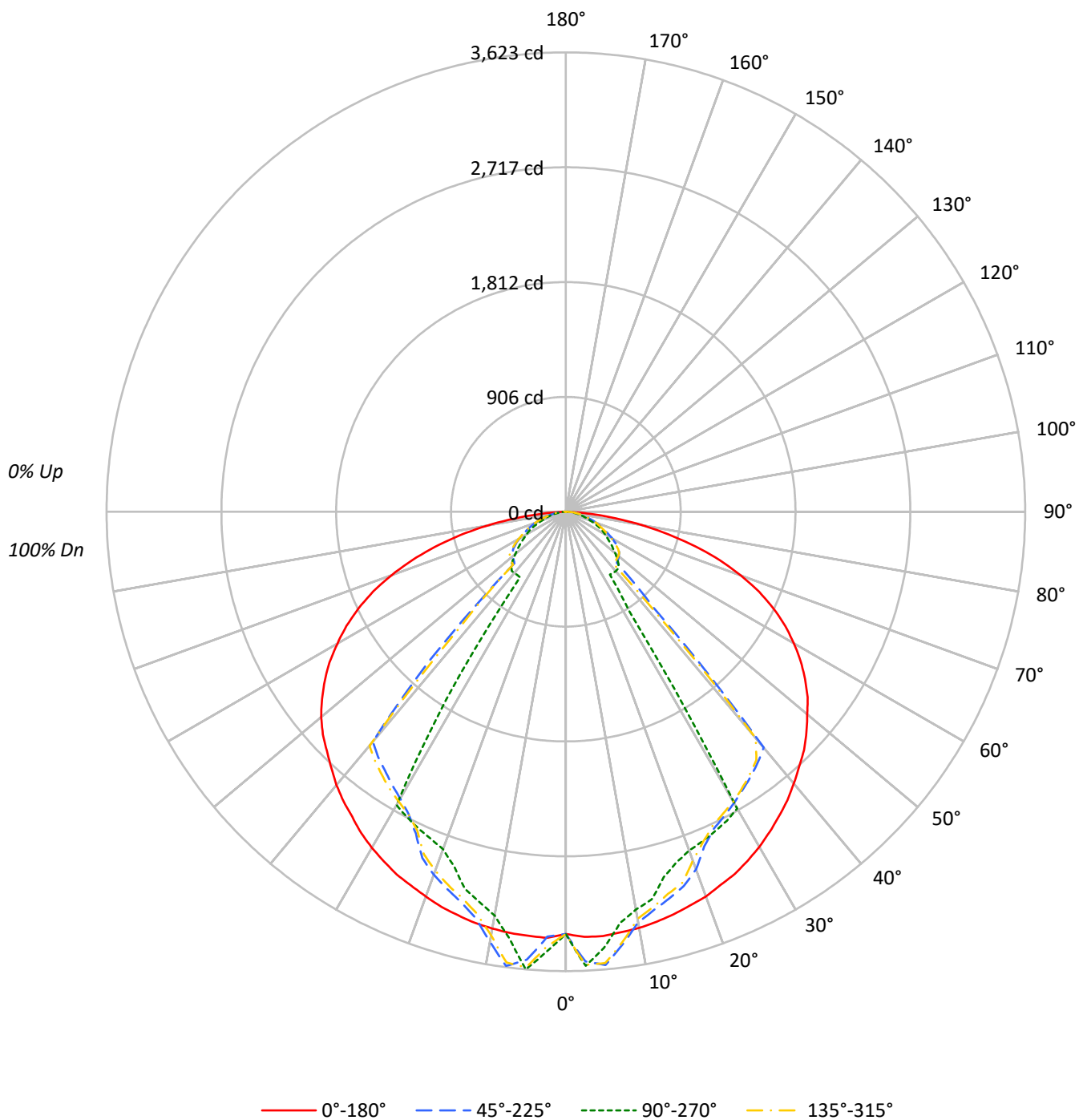
Lumens per Lamp: N/A
Luminaire Lumens: 6668.0 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 85
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°	26908	26908	26908	26908
5°	27172	27111	27160	28453
10°	27199	24512	27236	24887
15°	27259	22678	27322	23397
20°	27457	21510	27457	21429
25°	27695	21099	27735	20902
30°	27975	20726	28045	20481
35°	28300	4721	28359	4924
40°	28754	4909	28926	5068
45°	29443	4882	29545	5059
50°	30130	4414	30537	4533
55°	31058	3919	31304	3975
60°	31843	3483	31914	3527
65°	32407	3039	32325	2991
70°	31945	2450	31844	2361
75°	29656	1886	29869	1806
80°	24070	1339	25035	1226
85°	13035	803	13759	615

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 32629 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.6	4.9
10°-20°	900.8	13.5
20°-30°	1334.2	20.0
30°-40°	1344.3	20.2
40°-50°	1050.1	15.7
50°-60°	811.2	12.2
60°-70°	544.6	8.2
70°-80°	277.8	4.2
80°-90°	77.3	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°	2562.6	38.4
0°-40°	3907.0	58.6
0°-60°	5768.3	86.5
0°-90°	6668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6668.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3330	3330	3330	3330	3330	
5°	3359	3452	3357	3623	3359	319
15°	3286	2983	3293	3078	3286	929
25°	3151	2780	3156	2754	3151	1454
35°	2932	604	2938	630	2932	1837
45°	2657	588	2666	609	2657	2049
55°	2303	427	2321	433	2303	2057
65°	1808	287	1804	282	1808	1779
75°	1061	145	1068	139	1061	1109
85°	191	46	201	35	191	262
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°	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8
2.5°	3355.8	3368.0	3377.1	3383.2	3386.3	3386.3	3387.8	3389.3	3409.2	3418.3	3424.4
5°	3358.8	3371.0	3389.3	3413.8	3435.1	3453.4	3468.7	3490.1	3511.4	3534.3	3541.9
7.5°	3345.1	3360.3	3397.0	3441.2	3482.4	3511.4	3531.3	3545.0	3555.7	3557.2	3564.8
10°	3332.9	3360.3	3410.7	3468.7	3520.6	3555.7	3555.7	3548.1	3558.7	3517.5	3476.3
12.5°	3311.5	3342.0	3410.7	3487.0	3535.8	3549.6	3543.5	3513.0	3450.4	3400.0	3377.1
15°	3285.6	3326.8	3412.2	3497.7	3538.9	3543.5	3485.5	3407.7	3360.3	3329.8	3291.7
17.5°	3256.6	3311.5	3413.8	3499.2	3514.5	3493.1	3383.2	3334.4	3285.6	3213.8	3162.0
20°	3229.1	3282.5	3401.6	3477.9	3487.0	3390.9	3305.4	3253.5	3171.1	3108.6	3085.7
22.5°	3186.4	3248.9	3390.9	3448.9	3413.8	3302.4	3220.0	3137.5	3062.8	3044.5	3017.0
25°	3151.3	3216.9	3366.5	3413.8	3320.7	3221.5	3125.3	3029.2	2994.1	2968.2	2943.7
27.5°	3104.0	3184.9	3334.4	3349.7	3221.5	3134.5	2994.1	2951.4	2919.3	2890.3	2879.6
30°	3052.1	3151.3	3290.2	3261.2	3139.1	3010.9	2907.1	2867.4	2844.5	2814.0	2801.8
32.5°	2992.6	3100.9	3241.3	3158.9	3050.6	2890.3	2823.2	2792.7	2762.1	2739.2	2662.9
35°	2931.5	3056.7	3183.3	3061.2	2943.7	2798.8	2739.2	2711.8	2682.8	2598.9	2519.5
37.5°	2869.0	3007.8	3113.1	2955.9	2801.8	2704.1	2653.8	2623.3	2557.6	2450.8	2411.1
40°	2797.2	2948.3	3023.1	2847.6	2678.2	2608.0	2560.7	2530.2	2382.2	2334.8	2322.6
42.5°	2725.5	2890.3	2913.2	2742.3	2576.0	2505.8	2466.1	2365.4	2264.6	2240.2	2244.8
45°	2656.8	2827.8	2792.7	2592.7	2469.1	2411.1	2344.0	2205.1	2151.7	2163.9	2167.0
47.5°	2574.4	2753.0	2666.0	2443.2	2359.3	2301.3	2151.7	2067.8	2060.2	2076.9	2086.1
50°	2485.9	2669.1	2531.7	2307.4	2240.2	2171.6	2002.2	1959.4	1968.6	1985.4	1996.1
52.5°	2403.5	2574.4	2392.8	2180.7	2122.7	1965.5	1851.1	1858.7	1874.0	1893.8	1899.9
55°	2302.8	2460.0	2244.8	2052.5	1997.6	1791.6	1739.7	1758.0	1773.3	1790.0	1802.3
57.5°	2197.5	2328.7	2069.3	1909.1	1820.6	1637.4	1642.0	1654.2	1664.9	1684.8	695.9
60°	2076.9	2179.2	1877.0	1776.3	1600.8	1515.4	1519.9	1541.3	1552.0	866.8	479.2
62.5°	1951.8	2005.2	1703.1	1625.2	1399.4	1393.3	1414.6	1423.8	969.0	457.8	448.7
65°	1808.4	1797.7	1532.1	1408.5	1262.0	1268.1	1291.0	1245.3	428.8	428.8	425.8
67.5°	1649.7	1585.6	1365.8	1165.9	1129.3	1143.0	1167.4	407.5	396.8	399.8	389.1
70°	1468.1	1378.0	1193.4	987.4	999.6	1013.3	393.7	369.3	364.7	357.1	335.7
72.5°	1275.8	1152.2	976.7	857.6	865.3	543.3	344.9	332.7	317.4	302.2	279.3
75°	1060.6	900.4	717.2	717.2	727.9	309.8	300.6	280.8	264.0	244.2	230.4
77.5°	831.7	692.8	557.0	578.4	282.3	259.4	242.6	221.3	207.5	195.3	187.7
80°	608.9	483.8	419.7	375.4	219.8	196.9	180.1	167.9	161.8	154.1	145.0
82.5°	399.8	291.5	291.5	177.0	154.1	135.8	131.2	122.1	116.0	111.4	106.8
85°	190.8	169.4	128.2	108.3	96.1	87.0	83.9	79.4	79.4	77.8	76.3
87.5°	70.2	76.3	56.5	54.9	51.9	50.4	51.9	51.9	53.4	51.9	50.4
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°	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8
2.5°	3439.7	3451.9	3461.1	3476.3	3496.2	3513.0	3528.2	3549.6	3583.2	3592.3	3599.9
5°	3541.9	3546.5	3557.2	3569.4	3572.5	3580.1	3578.6	3587.7	3592.3	3603.0	3580.1
7.5°	3548.1	3523.6	3494.6	3468.7	3450.4	3433.6	3422.9	3439.7	3448.9	3456.5	3433.6
10°	3419.9	3390.9	3374.1	3358.8	3340.5	3314.6	3279.5	3287.1	3284.0	3284.0	3276.4
12.5°	3339.0	3297.8	3255.1	3216.9	3200.1	3198.6	3200.1	3216.9	3216.9	3215.4	3206.2
15°	3212.3	3172.6	3151.3	3142.1	3142.1	3137.5	3137.5	3155.9	3151.3	3151.3	3146.7
17.5°	3128.4	3100.9	3085.7	3075.0	3070.4	3078.0	3087.2	3094.8	3096.3	3090.2	3065.8
20°	3059.7	3033.8	3015.5	3018.5	3017.0	3021.6	3026.1	3000.2	2968.2	2925.4	2905.6
22.5°	2988.0	2968.2	2954.4	2954.4	2936.1	2907.1	2864.4	2855.2	2850.6	2830.8	2814.0
25°	2919.3	2896.4	2876.6	2815.6	2777.4	2782.0	2774.3	2759.1	2757.6	2756.0	2762.1
27.5°	2850.6	2791.1	2714.8	2705.7	2690.4	2688.9	2698.0	2705.7	2705.7	2711.8	2719.4
30°	2708.7	2640.1	2626.3	2609.5	2615.6	2637.0	2641.6	2652.3	2655.3	2666.0	2672.1
32.5°	2579.0	2548.5	2536.3	2543.9	2563.8	2582.1	2592.7	2597.3	2605.0	2614.1	2621.7
35°	2473.7	2464.6	2475.2	2492.0	2511.9	2527.1	2536.3	2545.4	2553.1	2560.7	2566.8
37.5°	2395.9	2402.0	2417.3	2438.6	2458.5	2470.7	2478.3	2489.0	2499.7	2508.8	2472.2
40°	2322.6	2337.9	2354.7	2377.6	2394.4	2406.6	2414.2	2427.9	2336.4	1057.5	579.9
42.5°	2258.5	2275.3	2287.5	2305.9	2324.2	2333.3	2266.2	1011.8	572.3	569.2	576.8
45°	2180.7	2194.5	2214.3	2228.0	2244.8	1474.2	563.1	569.2	560.1	566.2	569.2
47.5°	2101.4	2122.7	2133.4	2035.7	605.8	560.1	554.0	560.1	554.0	561.6	557.0
50°	2011.3	2037.3	1449.7	547.8	543.3	540.2	546.3	543.3	547.8	554.0	541.7
52.5°	1919.8	1188.8	531.1	528.0	531.1	528.0	538.7	531.1	532.6	526.5	511.2
55°	650.1	514.3	509.7	508.2	517.3	517.3	517.3	505.1	497.5	482.2	471.5
57.5°	497.5	497.5	496.0	497.5	494.4	491.4	477.7	467.0	456.3	434.9	428.8
60°	471.5	471.5	471.5	471.5	457.8	451.7	430.3	421.2	402.9	392.2	386.1
62.5°	450.2	447.1	433.4	428.8	413.6	396.8	384.6	375.4	357.1	351.0	346.4
65°	419.7	409.0	392.2	373.9	366.3	347.9	341.8	328.1	318.9	314.4	311.3
67.5°	369.3	354.0	340.3	328.1	314.4	308.3	300.6	289.9	283.8	280.8	277.7
70°	315.9	305.2	291.5	283.8	274.7	270.1	259.4	256.4	251.8	247.2	242.6
72.5°	264.0	257.9	251.8	241.1	238.1	235.0	224.3	218.2	212.1	206.0	203.0
75°	221.3	216.7	213.6	204.5	199.9	190.8	183.1	178.5	174.0	169.4	166.3
77.5°	181.6	178.5	169.4	163.3	160.2	152.6	149.6	151.1	148.0	141.9	138.9
80°	141.9	138.9	131.2	131.2	128.2	125.1	122.1	119.0	116.0	111.4	108.3
82.5°	108.3	105.3	102.2	99.2	96.1	94.6	93.1	90.0	87.0	83.9	82.4
85°	76.3	74.8	73.3	71.7	70.2	68.7	67.1	64.1	61.0	59.5	58.0
87.5°	51.9	50.4	48.8	47.3	45.8	44.3	42.7	41.2	38.2	36.6	35.1
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°	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8
2.5°	3599.9	3607.6	3599.9	3583.2	3572.5	3567.9	3577.0	3577.0	3583.2	3590.8	3592.3
5°	3543.5	3525.2	3503.8	3482.4	3471.7	3465.6	3448.9	3451.9	3456.5	3459.5	3462.6
7.5°	3403.1	3378.7	3349.7	3322.2	3311.5	3302.4	3282.5	3282.5	3282.5	3284.0	3293.2
10°	3259.6	3248.9	3236.7	3218.4	3204.7	3200.1	3183.3	3187.9	3184.9	3189.4	3200.1
12.5°	3192.5	3180.3	3169.6	3151.3	3136.0	3129.9	3122.3	3126.9	3125.3	3133.0	3142.1
15°	3131.4	3125.3	3113.1	3099.4	3085.7	3073.5	3046.0	3036.8	3030.7	3023.1	3033.8
17.5°	3030.7	2988.0	2959.0	2937.6	2922.4	2911.7	2904.1	2904.1	2908.6	2913.2	2922.4
20°	2893.4	2881.2	2867.4	2844.5	2829.3	2823.2	2818.6	2818.6	2826.2	2832.3	2849.1
22.5°	2798.8	2797.2	2792.7	2782.0	2774.3	2774.3	2775.9	2778.9	2789.6	2798.8	2815.6
25°	2754.5	2760.6	2757.6	2751.5	2746.9	2748.4	2745.4	2748.4	2759.1	2768.2	2782.0
27.5°	2719.4	2728.6	2725.5	2716.4	2708.7	2711.8	2716.4	2713.3	2722.5	2733.1	2743.8
30°	2672.1	2673.6	2679.7	2669.1	2666.0	2670.6	2672.1	2675.2	2684.3	2691.9	2701.1
32.5°	2618.7	2630.9	2629.4	2618.7	2618.7	2623.3	2624.8	2522.6	2331.8	2008.3	1919.8
35°	2566.8	2580.5	2557.6	2156.3	1492.5	796.6	615.0	593.6	598.2	601.3	604.3
37.5°	1898.4	900.4	573.8	578.4	582.9	587.5	592.1	596.7	601.3	605.8	607.4
40°	570.7	569.2	573.8	579.9	584.5	587.5	593.6	598.2	602.8	607.4	608.9
42.5°	564.6	567.7	572.3	578.4	584.5	590.6	595.2	601.3	604.3	607.4	608.9
45°	561.6	567.7	573.8	578.4	582.9	586.0	589.1	590.6	589.1	589.1	592.1
47.5°	557.0	563.1	564.6	563.1	564.6	563.1	563.1	563.1	558.5	557.0	557.0
50°	540.2	540.2	537.2	531.1	529.5	528.0	525.0	523.4	517.3	515.8	515.8
52.5°	505.1	503.6	499.0	491.4	488.3	485.3	483.8	482.2	476.1	473.1	474.6
55°	463.9	460.9	456.3	447.1	445.6	442.6	441.0	439.5	433.4	436.4	431.9
57.5°	425.8	419.7	413.6	412.0	405.9	404.4	402.9	401.3	396.8	398.3	395.2
60°	380.0	378.5	375.4	369.3	369.3	367.8	367.8	364.7	361.7	360.1	360.1
62.5°	346.4	341.8	338.8	338.8	334.2	334.2	334.2	331.2	328.1	329.6	328.1
65°	309.8	308.3	306.7	303.7	303.7	302.2	302.2	299.1	294.5	296.1	293.0
67.5°	279.3	276.2	273.2	271.6	265.5	262.5	261.0	259.4	253.3	254.8	251.8
70°	241.1	236.5	233.5	230.4	225.9	222.8	222.8	219.8	215.2	216.7	213.6
72.5°	201.4	198.4	195.3	193.8	189.2	187.7	186.2	184.7	180.1	181.6	180.1
75°	167.9	167.9	166.3	164.8	160.2	155.7	152.6	151.1	148.0	149.6	146.5
77.5°	138.9	135.8	132.8	132.8	128.2	125.1	122.1	122.1	122.1	120.6	119.0
80°	108.3	105.3	105.3	103.8	100.7	97.7	96.1	96.1	94.6	94.6	93.1
82.5°	82.4	79.4	77.8	77.8	74.8	73.3	71.7	70.2	70.2	70.2	68.7
85°	58.0	54.9	53.4	53.4	50.4	48.8	48.8	47.3	47.3	45.8	45.8
87.5°	35.1	33.6	32.0	32.0	29.0	27.5	27.5	27.5	25.9	25.9	24.4
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: P1213187

CATALOG NUMBER: 4SNLED-LD5-84SL-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°	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8
2.5°	3592.3	3592.3	3581.6	3584.7	3580.1	3586.2	3578.6	3578.6	3587.7	3587.7	3593.8
5°	3464.1	3456.5	3455.0	3451.9	3436.7	3442.8	3435.1	3427.5	3438.2	3438.2	3451.9
7.5°	3288.6	3274.9	3281.0	3271.8	3262.7	3248.9	3253.5	3247.4	3255.1	3265.7	3279.5
10°	3198.6	3186.4	3194.0	3184.9	3189.4	3169.6	3171.1	3172.6	3180.3	3183.3	3195.5
12.5°	3140.6	3137.5	3134.5	3131.4	3134.5	3123.8	3117.7	3119.2	3122.3	3123.8	3133.0
15°	3018.5	2998.7	3004.8	2983.4	2984.9	2986.5	2974.3	2986.5	2984.9	3004.8	3023.1
17.5°	2919.3	2919.3	2908.6	2899.5	2893.4	2891.9	2882.7	2888.8	2882.7	2894.9	2899.5
20°	2850.6	2849.1	2847.6	2843.0	2827.8	2829.3	2833.9	2820.1	2818.6	2817.1	2826.2
22.5°	2818.6	2820.1	2814.0	2814.0	2800.3	2803.3	2804.9	2789.6	2791.1	2786.6	2791.1
25°	2785.0	2788.1	2780.5	2780.5	2777.4	2775.9	2768.2	2771.3	2762.1	2754.5	2762.1
27.5°	2745.4	2751.5	2745.4	2748.4	2742.3	2739.2	2734.7	2731.6	2722.5	2720.9	2725.5
30°	2708.7	2711.8	2710.3	2702.6	2701.1	2691.9	2696.5	2687.4	2678.2	2679.7	2682.8
32.5°	1388.7	1326.1	1022.4	923.3	914.1	947.7	1123.2	1367.3	1771.7	2163.9	2446.2
35°	605.8	605.8	605.8	604.3	604.3	602.8	601.3	599.7	598.2	596.7	595.2
37.5°	608.9	608.9	608.9	608.9	607.4	605.8	605.8	602.8	601.3	599.7	598.2
40°	610.4	611.9	611.9	611.9	610.4	610.4	608.9	605.8	604.3	601.3	598.2
42.5°	608.9	610.4	610.4	608.9	608.9	607.4	607.4	605.8	604.3	602.8	601.3
45°	589.1	590.6	587.5	587.5	586.0	586.0	586.0	586.0	586.0	587.5	587.5
47.5°	554.0	554.0	552.4	550.9	550.9	549.4	550.9	549.4	552.4	554.0	557.0
50°	512.8	512.8	509.7	508.2	508.2	508.2	508.2	509.7	511.2	514.3	517.3
52.5°	470.0	470.0	468.5	467.0	465.4	465.4	470.0	468.5	470.0	471.5	476.1
55°	428.8	430.3	427.3	427.3	425.8	425.8	425.8	427.3	428.8	430.3	434.9
57.5°	393.7	393.7	390.7	390.7	390.7	389.1	393.7	390.7	392.2	393.7	396.8
60°	358.6	357.1	357.1	355.6	355.6	355.6	358.6	357.1	357.1	358.6	361.7
62.5°	326.6	326.6	325.0	325.0	323.5	323.5	326.6	325.0	325.0	326.6	328.1
65°	289.9	289.9	288.4	286.9	291.5	286.9	291.5	288.4	291.5	293.0	296.1
67.5°	248.7	248.7	248.7	247.2	247.2	250.3	251.8	248.7	250.3	253.3	254.8
70°	212.1	212.1	210.6	210.6	210.6	213.6	215.2	212.1	213.6	215.2	218.2
72.5°	180.1	177.0	177.0	175.5	178.5	178.5	180.1	178.5	180.1	180.1	183.1
75°	148.0	145.0	145.0	145.0	148.0	146.5	148.0	146.5	148.0	148.0	149.6
77.5°	119.0	117.5	116.0	116.0	119.0	119.0	119.0	117.5	119.0	120.6	122.1
80°	93.1	91.6	90.0	90.0	93.1	93.1	93.1	94.6	93.1	94.6	96.1
82.5°	68.7	67.1	65.6	68.7	68.7	68.7	68.7	70.2	68.7	70.2	71.7
85°	45.8	44.3	42.7	45.8	45.8	45.8	45.8	47.3	45.8	47.3	48.8
87.5°	24.4	22.9	22.9	24.4	24.4	24.4	25.9	25.9	25.9	27.5	27.5
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: P1213187

CATALOG NUMBER: 4SNLED-LD5-84SL-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°	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8
2.5°	3603.0	3607.6	3606.0	3596.9	3587.7	3577.0	3569.4	3570.9	3586.2	3590.8	3577.0
5°	3451.9	3480.9	3480.9	3500.7	3490.1	3480.9	3487.0	3520.6	3537.4	3563.3	3572.5
7.5°	3296.3	3310.0	3308.5	3328.3	3325.2	3325.2	3329.8	3374.1	3395.4	3416.8	3422.9
10°	3209.3	3223.0	3221.5	3223.0	3218.4	3207.7	3207.7	3227.6	3245.9	3256.6	3259.6
12.5°	3146.7	3154.3	3152.8	3152.8	3149.8	3140.6	3139.1	3155.9	3175.7	3189.4	3191.0
15°	3053.6	3075.0	3079.6	3099.4	3094.8	3082.6	3085.7	3099.4	3111.6	3123.8	3119.2
17.5°	2914.7	2925.4	2927.0	2934.6	2931.5	2931.5	2949.8	3000.2	3033.8	3062.8	3065.8
20°	2835.4	2843.0	2840.0	2856.8	2849.1	2847.6	2852.2	2873.5	2888.8	2902.5	2927.0
22.5°	2797.2	2803.3	2798.8	2800.3	2786.6	2774.3	2771.3	2788.1	2804.9	2823.2	2823.2
25°	2765.2	2769.8	2768.2	2765.2	2754.5	2737.7	2734.7	2737.7	2743.8	2745.4	2734.7
27.5°	2727.0	2730.1	2730.1	2731.6	2717.9	2702.6	2699.6	2696.5	2702.6	2701.1	2684.3
30°	2687.4	2682.8	2684.3	2685.8	2673.6	2659.9	2653.8	2652.3	2658.4	2656.8	2640.1
32.5°	2592.7	2627.8	2630.9	2634.0	2623.3	2611.1	2605.0	2600.4	2603.4	2601.9	2586.6
35°	593.6	604.3	740.1	1675.6	2275.3	2519.5	2545.4	2539.3	2540.9	2540.9	2528.7
37.5°	595.2	593.6	592.1	587.5	582.9	579.9	1002.6	2138.0	2476.8	2478.3	2467.6
40°	595.2	593.6	592.1	589.1	582.9	578.4	570.7	564.6	578.4	1272.7	2328.7
42.5°	598.2	595.2	592.1	589.1	582.9	576.8	570.7	563.1	567.7	564.6	557.0
45°	589.1	587.5	587.5	586.0	582.9	576.8	569.2	560.1	555.5	560.1	552.4
47.5°	560.1	561.6	566.2	567.7	567.7	569.2	564.6	558.5	550.9	555.5	546.3
50°	520.4	523.4	525.0	532.6	535.6	541.7	543.3	543.3	541.7	547.8	541.7
52.5°	477.7	480.7	488.3	491.4	494.4	503.6	506.6	511.2	514.3	523.4	529.5
55°	436.4	438.0	441.0	447.1	451.7	459.3	463.9	468.5	476.1	480.7	499.0
57.5°	398.3	399.8	405.9	407.5	410.5	416.6	421.2	427.3	433.4	436.4	457.8
60°	361.7	363.2	367.8	369.3	370.8	376.9	381.5	386.1	390.7	393.7	409.0
62.5°	329.6	329.6	334.2	334.2	335.7	340.3	343.4	346.4	351.0	352.5	360.1
65°	297.6	299.1	302.2	302.2	303.7	306.7	308.3	309.8	314.4	314.4	320.5
67.5°	257.9	259.4	264.0	267.1	268.6	274.7	276.2	277.7	280.8	282.3	285.4
70°	219.8	221.3	225.9	227.4	228.9	233.5	236.5	241.1	245.7	250.3	253.3
72.5°	184.7	186.2	190.8	190.8	195.3	196.9	199.9	201.4	206.0	209.1	213.6
75°	151.1	152.6	157.2	157.2	161.8	163.3	164.8	166.3	169.4	172.4	175.5
77.5°	123.6	123.6	129.7	132.8	135.8	135.8	137.3	137.3	137.3	138.9	141.9
80°	97.7	97.7	102.2	105.3	108.3	108.3	109.9	111.4	112.9	112.9	114.5
82.5°	73.3	73.3	77.8	79.4	82.4	82.4	82.4	83.9	85.5	83.9	87.0
85°	50.4	50.4	53.4	54.9	58.0	58.0	58.0	59.5	61.0	59.5	61.0
87.5°	29.0	30.5	32.0	33.6	35.1	36.6	36.6	36.6	38.2	38.2	39.7
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: P1213187

CATALOG NUMBER: 4SNLED-LD5-84SL-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°	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8
2.5°	3561.8	3543.5	3541.9	3520.6	3514.5	3516.0	3499.2	3493.1	3465.6	3459.5	3430.5
5°	3575.5	3584.7	3580.1	3578.6	3583.2	3580.1	3567.9	3561.8	3557.2	3545.0	3520.6
7.5°	3424.4	3430.5	3435.1	3455.0	3471.7	3500.7	3531.3	3551.1	3566.4	3569.4	3549.6
10°	3270.3	3299.3	3319.1	3349.7	3374.1	3390.9	3409.2	3426.0	3470.2	3514.5	3540.4
12.5°	3191.0	3198.6	3197.1	3213.8	3230.6	3274.9	3317.6	3342.0	3375.6	3395.4	3442.8
15°	3123.8	3125.3	3129.9	3142.1	3151.3	3166.5	3186.4	3223.0	3290.2	3320.7	3346.6
17.5°	3062.8	3062.8	3065.8	3076.5	3088.7	3102.4	3114.7	3129.9	3163.5	3213.8	3277.9
20°	2965.1	3007.8	3012.4	3010.9	3017.0	3042.9	3046.0	3073.5	3090.2	3110.1	3172.6
22.5°	2820.1	2846.1	2882.7	2939.2	2960.5	2972.7	2981.9	2994.1	3020.0	3042.9	3068.9
25°	2740.8	2757.6	2768.2	2785.0	2829.3	2901.0	2914.7	2928.5	2945.3	2962.1	2994.1
27.5°	2670.6	2669.1	2676.7	2691.9	2704.1	2742.3	2809.4	2862.9	2865.9	2890.3	2917.8
30°	2620.2	2611.1	2600.4	2597.3	2614.1	2634.0	2653.8	2737.7	2795.7	2807.9	2836.9
32.5°	2572.9	2557.6	2542.4	2530.2	2519.5	2536.3	2548.5	2585.1	2659.9	2730.1	2745.4
35°	2514.9	2499.7	2481.3	2467.6	2450.8	2449.3	2447.8	2482.9	2507.3	2591.2	2664.5
37.5°	2455.4	2438.6	2423.4	2408.1	2391.3	2379.1	2371.5	2380.6	2403.5	2440.1	2562.2
40°	2392.8	2373.0	2357.7	2345.5	2322.6	2313.5	2298.2	2292.1	2293.6	2325.7	2389.8
42.5°	1429.9	2279.9	2287.5	2273.8	2254.0	2241.8	2225.0	2217.3	2202.1	2217.3	2254.0
45°	550.9	557.0	1668.0	2203.6	2179.2	2163.9	2148.7	2141.0	2124.3	2112.0	2145.6
47.5°	540.2	546.3	534.1	756.9	2080.0	2084.6	2066.3	2058.6	2041.8	2032.7	2023.5
50°	532.6	537.2	528.0	531.1	520.4	1906.0	1982.3	1973.2	1954.9	1944.2	1925.9
52.5°	525.0	525.0	518.9	511.2	508.2	509.7	1603.9	1886.2	1864.8	1854.1	1829.7
55°	500.5	503.6	509.7	497.5	494.4	492.9	488.3	1527.6	1765.6	1753.4	1732.1
57.5°	463.9	470.0	486.8	483.8	483.8	471.5	468.5	468.5	1417.7	1651.2	1629.8
60°	421.2	427.3	445.6	451.7	456.3	453.2	450.2	448.7	442.6	1494.0	1521.5
62.5°	376.9	383.0	389.1	409.0	415.1	422.7	431.9	427.3	421.2	421.2	1407.0
65°	329.6	338.8	341.8	360.1	367.8	381.5	389.1	399.8	396.8	395.2	402.9
67.5°	288.4	299.1	300.6	308.3	322.0	328.1	337.3	357.1	366.3	369.3	372.4
70°	253.3	259.4	264.0	267.1	276.2	277.7	294.5	308.3	322.0	337.3	341.8
72.5°	218.2	222.8	232.0	228.9	232.0	238.1	247.2	256.4	270.1	291.5	305.2
75°	178.5	181.6	187.7	190.8	196.9	201.4	207.5	215.2	227.4	238.1	256.4
77.5°	143.4	145.0	149.6	151.1	157.2	161.8	172.4	177.0	184.7	192.3	203.0
80°	116.0	116.0	117.5	117.5	122.1	126.7	134.3	138.9	148.0	154.1	154.1
82.5°	88.5	88.5	93.1	93.1	96.1	96.1	100.7	100.7	105.3	108.3	111.4
85°	62.6	64.1	67.1	65.6	68.7	67.1	70.2	73.3	74.8	73.3	71.7
87.5°	41.2	41.2	44.3	42.7	44.3	44.3	47.3	47.3	48.8	48.8	47.3
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: P1213187

CATALOG NUMBER: 4SNLED-LD5-84SL-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°	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8
2.5°	3419.9	3397.0	3383.2	3366.5	3361.9	3357.3	3363.4	3363.4	3354.2	3346.6	3332.9
5°	3499.2	3474.8	3448.9	3421.4	3395.4	3368.0	3357.3	3355.8	3339.0	3329.8	3325.2
7.5°	3540.4	3528.2	3499.2	3461.1	3421.4	3372.6	3351.2	3339.0	3322.2	3319.1	3319.1
10°	3545.0	3531.3	3516.0	3488.5	3442.8	3378.7	3337.5	3313.0	3297.8	3308.5	3328.3
12.5°	3500.7	3526.7	3513.0	3494.6	3458.0	3380.2	3320.7	3284.0	3279.5	3306.9	3358.8
15°	3387.8	3464.1	3502.3	3484.0	3455.0	3377.1	3293.2	3250.5	3250.5	3306.9	3374.1
17.5°	3302.4	3361.9	3455.0	3470.2	3436.7	3371.0	3267.3	3216.9	3230.6	3313.0	3384.8
20°	3232.2	3268.8	3358.8	3444.3	3412.2	3357.3	3229.1	3177.2	3204.7	3303.9	3400.0
22.5°	3122.3	3195.5	3250.5	3377.1	3387.8	3331.4	3191.0	3128.4	3183.3	3303.9	3392.4
25°	3015.5	3104.0	3162.0	3285.6	3351.2	3299.3	3155.9	3076.5	3160.4	3299.3	3386.3
27.5°	2940.7	2981.9	3087.2	3175.7	3296.3	3256.6	3108.6	3020.0	3131.4	3274.9	3351.2
30°	2861.3	2888.8	2992.6	3076.5	3223.0	3207.7	3059.7	2957.5	3094.8	3252.0	3259.6
32.5°	2774.3	2804.9	2858.3	2980.4	3120.8	3162.0	3004.8	2894.9	3055.1	3216.9	3152.8
35°	2685.8	2708.7	2751.5	2882.7	3001.7	3093.3	2937.6	2823.2	3027.7	3163.5	3050.6
37.5°	2597.3	2621.7	2658.4	2768.2	2876.6	3029.2	2879.6	2751.5	2977.3	3068.9	2943.7
40°	2513.4	2527.1	2565.3	2634.0	2772.8	2963.6	2814.0	2676.7	2925.4	2948.3	2798.8
42.5°	2359.3	2427.9	2463.0	2518.0	2655.3	2873.5	2737.7	2597.3	2867.4	2827.8	2653.8
45°	2192.9	2342.5	2357.7	2412.7	2551.5	2777.4	2666.0	2519.5	2812.5	2724.0	2516.4
47.5°	2057.1	2165.5	2254.0	2299.7	2427.9	2664.5	2598.9	2453.9	2730.1	2592.7	2382.2
50°	1936.5	1994.5	2154.8	2188.3	2279.9	2528.7	2519.5	2377.6	2615.6	2427.9	2250.9
52.5°	1819.0	1860.2	2005.2	2076.9	2151.7	2382.2	2424.9	2302.8	2490.5	2263.1	2118.1
55°	1716.8	1730.5	1809.9	1961.0	2028.1	2234.1	2321.1	2215.8	2331.8	2105.9	1990.0
57.5°	1611.5	1599.3	1657.3	1851.1	1899.9	2083.0	2211.2	2127.3	2203.6	1945.7	1857.2
60°	1501.6	1484.8	1509.3	1637.4	1764.1	1933.5	2081.5	2029.6	2048.0	1787.0	1709.2
62.5°	1387.2	1370.4	1362.8	1443.6	1631.3	1779.4	1950.3	1921.3	1857.2	1642.0	1526.0
65°	1268.1	1251.4	1239.1	1271.2	1484.8	1579.5	1803.8	1796.2	1648.1	1489.4	1284.9
67.5°	386.1	1138.4	1112.5	1111.0	1251.4	1397.9	1645.1	1632.9	1437.5	1326.1	1106.4
70°	347.9	923.3	981.2	967.5	1028.6	1213.2	1463.5	1454.3	1233.0	1063.7	978.2
72.5°	318.9	326.6	866.8	851.5	865.3	1031.6	1274.2	1249.8	1045.3	839.3	845.4
75°	273.2	286.9	299.1	718.8	700.5	854.6	1068.2	1030.1	862.2	692.8	706.6
77.5°	222.8	239.6	248.7	523.4	566.2	608.9	853.1	802.7	593.6	554.0	264.0
80°	166.3	180.1	195.3	209.1	430.3	425.8	633.3	582.9	413.6	344.9	206.0
82.5°	122.1	126.7	135.8	151.1	170.9	285.4	407.5	358.6	286.9	157.2	141.9
85°	76.3	82.4	87.0	91.6	103.8	170.9	201.4	160.2	120.6	96.1	90.0
87.5°	48.8	48.8	47.3	48.8	50.4	61.0	68.7	65.6	51.9	48.8	48.8
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: P1213187

CATALOG NUMBER: 4SNLED-LD5-84SL-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°	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8
2.5°	3317.6	3296.3	3296.3	3290.2	3294.7	3294.7	3293.2	3294.7	3305.4	3311.5	3322.2
5°	3316.1	3310.0	3323.7	3340.5	3360.3	3384.8	3390.9	3412.2	3432.1	3458.0	3485.5
7.5°	3335.9	3357.3	3383.2	3410.7	3450.4	3479.4	3505.3	3531.3	3549.6	3574.0	3589.3
10°	3364.9	3407.7	3451.9	3487.0	3529.7	3554.2	3570.9	3574.0	3548.1	3506.8	3473.3
12.5°	3406.1	3456.5	3497.7	3531.3	3551.1	3541.9	3493.1	3442.8	3413.8	3371.0	3311.5
15°	3441.2	3487.0	3529.7	3516.0	3462.6	3412.2	3374.1	3314.6	3256.6	3216.9	3191.0
17.5°	3456.5	3500.7	3485.5	3413.8	3363.4	3305.4	3227.6	3181.8	3143.7	3113.1	3097.9
20°	3465.6	3458.0	3375.6	3323.7	3226.1	3172.6	3122.3	3079.6	3050.6	3035.3	3032.2
22.5°	3441.2	3348.1	3277.9	3184.9	3113.1	3068.9	3029.2	2994.1	2974.3	2962.1	2954.4
25°	3360.3	3252.0	3148.2	3075.0	3013.9	2975.8	2945.3	2916.3	2891.9	2885.7	2870.5
27.5°	3247.4	3158.9	3021.6	2965.1	2911.7	2893.4	2859.8	2830.8	2809.4	2791.1	2742.3
30°	3154.3	3013.9	2914.7	2862.9	2830.8	2809.4	2771.3	2740.8	2704.1	2637.0	2609.5
32.5°	3039.9	2901.0	2806.4	2777.4	2737.7	2719.4	2676.7	2609.5	2553.1	2525.6	2524.1
35°	2891.9	2777.4	2708.7	2682.8	2650.7	2620.2	2531.7	2470.7	2443.2	2446.2	2469.1
37.5°	2768.2	2666.0	2621.7	2585.1	2548.5	2470.7	2395.9	2366.9	2374.5	2389.8	2400.5
40°	2643.1	2565.3	2514.9	2485.9	2403.5	2327.2	2287.5	2298.2	2312.0	2322.6	2336.4
42.5°	2521.0	2466.1	2415.7	2359.3	2246.3	2205.1	2214.3	2228.0	2240.2	2255.5	2269.2
45°	2405.0	2356.2	2298.2	2170.0	2113.6	2124.3	2138.0	2148.7	2167.0	2177.7	2191.4
47.5°	2295.2	2243.3	2141.0	2028.1	2022.0	2043.4	2055.6	2069.3	2083.0	2055.6	1133.9
50°	2171.6	2118.1	1962.5	1919.8	1933.5	1953.3	1968.6	1982.3	1765.6	702.0	540.2
52.5°	2049.5	1913.7	1814.5	1826.7	1840.4	1863.3	1874.0	1391.8	554.0	528.0	529.5
55°	1913.7	1739.7	1710.7	1726.0	1738.2	1761.1	1167.4	511.2	508.2	506.6	518.9
57.5°	1700.0	1594.7	1606.9	1622.2	1634.4	1153.7	497.5	494.4	496.0	497.5	499.0
60°	1509.3	1486.4	1500.1	1513.8	1071.3	480.7	471.5	473.1	479.2	474.6	462.4
62.5°	1358.2	1376.5	1390.2	1217.8	456.3	451.7	456.3	451.7	441.0	433.4	418.1
65°	1242.2	1260.5	1271.2	428.8	427.3	433.4	428.8	413.6	396.8	375.4	370.8
67.5°	1120.1	1138.4	407.5	396.8	402.9	395.2	376.9	358.6	346.4	328.1	320.5
70°	993.5	425.8	369.3	367.8	357.1	344.9	325.0	306.7	291.5	283.8	276.2
72.5°	717.2	337.3	332.7	320.5	302.2	285.4	268.6	257.9	250.3	245.7	241.1
75°	299.1	293.0	279.3	257.9	239.6	232.0	219.8	212.1	209.1	199.9	196.9
77.5°	250.3	238.1	218.2	203.0	192.3	187.7	178.5	169.4	164.8	163.3	157.2
80°	192.3	175.5	166.3	158.7	155.7	145.0	134.3	129.7	126.7	125.1	120.6
82.5°	131.2	125.1	119.0	108.3	108.3	103.8	99.2	96.1	93.1	93.1	90.0
85°	85.5	80.9	79.4	74.8	74.8	71.7	70.2	68.7	67.1	65.6	64.1
87.5°	48.8	48.8	50.4	48.8	48.8	47.3	45.8	44.3	42.7	42.7	39.7
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: P1213187

CATALOG NUMBER: 4SNLED-LD5-84SL-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°	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8
2.5°	3335.9	3351.2	3354.2	3406.1	3435.1	3433.6	3424.4	3451.9	3435.1	3426.0	3435.1
5°	3513.0	3531.3	3546.5	3603.0	3622.8	3632.0	3630.5	3645.7	3633.5	3622.8	3622.8
7.5°	3599.9	3606.0	3612.1	3598.4	3589.3	3574.0	3551.1	3517.5	3500.7	3482.4	3459.5
10°	3456.5	3436.7	3444.3	3416.8	3393.9	3377.1	3355.8	3328.3	3305.4	3288.6	3262.7
12.5°	3281.0	3279.5	3282.5	3287.1	3264.2	3250.5	3233.7	3213.8	3197.1	3178.7	3157.4
15°	3174.2	3175.7	3187.9	3183.3	3175.7	3168.1	3149.8	3143.7	3128.4	3108.6	3096.3
17.5°	3097.9	3105.5	3117.7	3111.6	3099.4	3091.8	3078.0	3064.3	3050.6	3035.3	3017.0
20°	3030.7	3038.4	3046.0	3038.4	3015.5	3004.8	2986.5	2943.7	2913.2	2882.7	2855.2
22.5°	2957.5	2962.1	2955.9	2931.5	2873.5	2846.1	2824.7	2812.5	2786.6	2769.8	2753.0
25°	2865.9	2840.0	2800.3	2772.8	2749.9	2737.7	2728.6	2727.0	2724.0	2720.9	2713.3
27.5°	2716.4	2707.2	2685.8	2675.2	2676.7	2681.3	2682.8	2687.4	2682.8	2676.7	2670.6
30°	2605.0	2609.5	2611.1	2614.1	2621.7	2626.3	2627.8	2634.0	2630.9	2626.3	2623.3
32.5°	2534.8	2545.4	2551.5	2560.7	2565.3	2572.9	2572.9	2582.1	2572.9	2571.4	2568.3
35°	2476.8	2485.9	2489.0	2502.7	2507.3	2514.9	2514.9	2522.6	2514.9	2437.1	1924.3
37.5°	2418.8	2427.9	2434.0	2446.2	2447.8	2452.4	2263.1	1655.8	1068.2	827.1	631.8
40°	2350.1	2360.8	2366.9	2371.5	1666.4	1057.5	727.9	592.1	592.1	596.7	601.3
42.5°	2276.9	2284.5	1591.7	926.3	576.8	575.3	579.9	584.5	589.1	595.2	601.3
45°	1790.0	903.4	573.8	560.1	564.6	570.7	576.8	582.9	590.6	596.7	599.7
47.5°	587.5	550.9	558.5	552.4	560.1	567.7	573.8	579.9	581.4	582.9	581.4
50°	543.3	543.3	547.8	547.8	554.0	557.0	557.0	557.0	550.9	549.4	544.8
52.5°	525.0	537.2	531.1	534.1	531.1	526.5	521.9	517.3	508.2	505.1	499.0
55°	515.8	520.4	505.1	500.5	494.4	482.2	476.1	470.0	462.4	459.3	451.7
57.5°	494.4	483.8	467.0	459.3	448.7	436.4	430.3	425.8	418.1	415.1	410.5
60°	454.8	433.4	422.7	413.6	401.3	390.7	386.1	383.0	376.9	375.4	370.8
62.5°	405.9	387.6	378.5	366.3	357.1	351.0	346.4	344.9	338.8	338.8	335.7
65°	352.5	343.4	335.7	323.5	318.9	312.8	311.3	309.8	306.7	305.2	302.2
67.5°	309.8	303.7	293.0	286.9	283.8	279.3	276.2	273.2	267.1	264.0	259.4
70°	271.6	267.1	256.4	251.8	245.7	238.1	233.5	230.4	225.9	222.8	218.2
72.5°	235.0	221.3	213.6	209.1	204.5	196.9	195.3	192.3	187.7	186.2	181.6
75°	189.2	178.5	174.0	170.9	166.3	161.8	161.8	161.8	157.2	155.7	154.1
77.5°	151.1	145.0	141.9	138.9	137.3	134.3	129.7	128.2	123.6	123.6	122.1
80°	116.0	112.9	109.9	108.3	106.8	103.8	100.7	99.2	94.6	94.6	93.1
82.5°	85.5	83.9	82.4	80.9	79.4	77.8	73.3	71.7	68.7	68.7	67.1
85°	61.0	59.5	56.5	54.9	54.9	53.4	48.8	47.3	44.3	44.3	44.3
87.5°	38.2	36.6	35.1	33.6	32.0	30.5	27.5	25.9	25.9	22.9	21.4
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: P1213187

CATALOG NUMBER: 4SNLED-LD5-84SL-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°	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8
2.5°	3416.8	3442.8	3439.7	3458.0	3462.6	3471.7	3474.8	3476.3	3453.4	3471.7	3473.3
5°	3618.2	3622.8	3625.9	3633.5	3641.1	3642.7	3635.0	3625.9	3628.9	3622.8	3607.6
7.5°	3456.5	3433.6	3429.0	3422.9	3419.9	3416.8	3403.1	3415.3	3401.6	3395.4	3374.1
10°	3258.1	3236.7	3235.2	3235.2	3239.8	3238.3	3235.2	3229.1	3241.3	3233.7	3229.1
12.5°	3154.3	3146.7	3151.3	3148.2	3160.4	3163.5	3160.4	3160.4	3157.4	3151.3	3154.3
15°	3091.8	3085.7	3090.2	3085.7	3094.8	3096.3	3088.7	3093.3	3085.7	3078.0	3075.0
17.5°	3009.4	2995.6	2984.9	2969.7	2971.2	2968.2	2959.0	2959.0	2951.4	2931.5	2933.1
20°	2850.6	2836.9	2830.8	2830.8	2838.4	2841.5	2840.0	2843.0	2835.4	2832.3	2820.1
22.5°	2751.5	2749.9	2753.0	2760.6	2772.8	2789.6	2791.1	2791.1	2791.1	2789.6	2774.3
25°	2716.4	2716.4	2719.4	2730.1	2739.2	2751.5	2754.5	2757.6	2754.5	2754.5	2740.8
27.5°	2676.7	2673.6	2679.7	2690.4	2701.1	2710.3	2717.9	2719.4	2714.8	2714.8	2719.4
30°	2627.8	2626.3	2634.0	2644.6	2653.8	2662.9	2670.6	2676.7	2670.6	2670.6	2666.0
32.5°	2577.5	2577.5	2580.5	2516.4	2333.3	2101.4	2105.9	1971.6	1878.6	1761.1	1916.7
35°	1608.5	1170.5	1005.7	851.5	743.2	673.0	671.5	648.6	637.9	630.3	628.7
37.5°	607.4	610.4	616.5	619.6	624.2	627.2	628.7	628.7	628.7	628.7	627.2
40°	605.8	611.9	616.5	621.1	625.7	628.7	628.7	630.3	631.8	631.8	631.8
42.5°	607.4	613.5	619.6	624.2	627.2	628.7	630.3	631.8	631.8	631.8	631.8
45°	605.8	608.9	608.9	610.4	610.4	610.4	611.9	611.9	610.4	608.9	611.9
47.5°	582.9	582.9	578.4	576.8	575.3	572.3	573.8	572.3	570.7	569.2	572.3
50°	543.3	537.2	534.1	531.1	529.5	526.5	528.0	526.5	525.0	521.9	526.5
52.5°	496.0	494.4	488.3	485.3	483.8	485.3	482.2	480.7	479.2	477.7	479.2
55°	450.2	444.1	442.6	439.5	438.0	439.5	438.0	436.4	434.9	433.4	434.9
57.5°	409.0	404.4	402.9	399.8	399.8	399.8	399.8	398.3	396.8	395.2	396.8
60°	369.3	366.3	364.7	364.7	363.2	363.2	363.2	361.7	360.1	360.1	361.7
62.5°	335.7	335.7	331.2	329.6	329.6	331.2	329.6	328.1	326.6	325.0	328.1
65°	300.6	294.5	293.0	289.9	286.9	288.4	286.9	285.4	283.8	282.3	285.4
67.5°	257.9	256.4	250.3	247.2	245.7	247.2	245.7	244.2	242.6	241.1	244.2
70°	216.7	216.7	210.6	209.1	207.5	207.5	206.0	206.0	204.5	203.0	206.0
72.5°	180.1	180.1	178.5	175.5	174.0	172.4	170.9	169.4	169.4	170.9	170.9
75°	149.6	146.5	140.4	141.9	140.4	138.9	138.9	137.3	135.8	138.9	137.3
77.5°	117.5	116.0	111.4	112.9	111.4	109.9	109.9	108.3	106.8	108.3	108.3
80°	88.5	88.5	87.0	85.5	85.5	83.9	82.4	82.4	80.9	82.4	82.4
82.5°	64.1	64.1	62.6	61.0	59.5	59.5	58.0	58.0	58.0	58.0	58.0
85°	41.2	39.7	39.7	36.6	36.6	36.6	35.1	35.1	35.1	35.1	35.1
87.5°	19.8	19.8	18.3	18.3	16.8	15.3	15.3	13.7	13.7	15.3	15.3
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: P1213187

CATALOG NUMBER: 4SNLED-LD5-84SL-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°	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8
2.5°	3445.8	3465.6	3448.9	3456.5	3458.0	3484.0	3482.4	3488.5	3477.9	3465.6	3448.9
5°	3621.3	3612.1	3599.9	3628.9	3613.7	3632.0	3638.1	3650.3	3650.3	3648.8	3635.0
7.5°	3397.0	3377.1	3392.4	3403.1	3407.7	3395.4	3419.9	3447.3	3470.2	3484.0	3485.5
10°	3221.5	3227.6	3226.1	3230.6	3241.3	3239.8	3255.1	3270.3	3276.4	3285.6	3288.6
12.5°	3139.1	3137.5	3140.6	3151.3	3157.4	3155.9	3171.1	3180.3	3183.3	3184.9	3183.3
15°	3073.5	3062.8	3070.4	3071.9	3076.5	3076.5	3094.8	3108.6	3114.7	3117.7	3114.7
17.5°	2949.8	2923.9	2948.3	2948.3	2965.1	2962.1	2991.0	3013.9	3026.1	3035.3	3035.3
20°	2827.8	2815.6	2824.7	2821.7	2833.9	2832.3	2850.6	2865.9	2876.6	2884.2	2893.4
22.5°	2778.9	2782.0	2768.2	2769.8	2769.8	2768.2	2777.4	2785.0	2788.1	2792.7	2789.6
25°	2746.9	2749.9	2745.4	2737.7	2734.7	2737.7	2742.3	2751.5	2753.0	2749.9	2739.2
27.5°	2714.8	2705.7	2713.3	2699.6	2696.5	2702.6	2708.7	2710.3	2711.8	2711.8	2702.6
30°	2666.0	2658.4	2666.0	2659.9	2653.8	2659.9	2664.5	2664.5	2667.5	2669.1	2658.4
32.5°	1863.3	1878.6	2125.8	2275.3	2485.9	2592.7	2612.6	2612.6	2615.6	2615.6	2606.5
35°	634.8	636.4	688.2	746.2	869.8	1022.4	1222.4	1326.1	1677.1	2096.8	2502.7
37.5°	627.2	625.7	624.2	622.6	621.1	619.6	616.5	615.0	624.2	740.1	1004.1
40°	630.3	628.7	625.7	624.2	622.6	619.6	618.0	615.0	611.9	608.9	605.8
42.5°	630.3	628.7	627.2	625.7	624.2	622.6	619.6	616.5	613.5	608.9	604.3
45°	608.9	608.9	610.4	610.4	611.9	611.9	611.9	610.4	610.4	608.9	602.8
47.5°	569.2	569.2	573.8	573.8	576.8	579.9	579.9	582.9	587.5	590.6	592.1
50°	523.4	523.4	528.0	529.5	532.6	537.2	541.7	543.3	547.8	554.0	560.1
52.5°	477.7	477.7	482.2	482.2	485.3	489.9	494.4	496.0	502.1	508.2	515.8
55°	434.9	434.9	438.0	439.5	441.0	444.1	448.7	448.7	454.8	459.3	467.0
57.5°	396.8	399.8	399.8	399.8	401.3	404.4	407.5	407.5	412.0	416.6	422.7
60°	360.1	363.2	363.2	363.2	364.7	366.3	369.3	369.3	372.4	375.4	381.5
62.5°	326.6	329.6	329.6	331.2	331.2	332.7	335.7	334.2	337.3	338.8	343.4
65°	283.8	286.9	288.4	289.9	291.5	294.5	299.1	297.6	302.2	305.2	309.8
67.5°	242.6	245.7	245.7	247.2	248.7	251.8	254.8	254.8	259.4	262.5	268.6
70°	204.5	207.5	207.5	209.1	210.6	213.6	216.7	215.2	219.8	222.8	227.4
72.5°	169.4	172.4	172.4	174.0	174.0	177.0	180.1	183.1	183.1	186.2	189.2
75°	137.3	138.9	140.4	140.4	141.9	143.4	146.5	149.6	151.1	152.6	155.7
77.5°	108.3	109.9	111.4	111.4	112.9	114.5	116.0	122.1	125.1	126.7	126.7
80°	82.4	83.9	83.9	83.9	85.5	87.0	90.0	90.0	96.1	96.1	97.7
82.5°	58.0	59.5	59.5	59.5	61.0	64.1	65.6	67.1	70.2	71.7	71.7
85°	35.1	36.6	36.6	36.6	38.2	39.7	42.7	44.3	45.8	45.8	47.3
87.5°	13.7	15.3	16.8	16.8	18.3	19.8	21.4	22.9	24.4	24.4	25.9
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):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8
2.5°	3430.5	3441.2	3430.5	3436.7	3444.3	3430.5	3398.5	3386.3	3381.7	3363.4	3351.2
5°	3621.3	3621.3	3616.7	3628.9	3627.4	3606.0	3572.5	3557.2	3541.9	3522.1	3506.8
7.5°	3485.5	3497.7	3505.3	3552.6	3583.2	3586.2	3607.6	3612.1	3618.2	3612.1	3603.0
10°	3290.2	3285.6	3306.9	3351.2	3377.1	3390.9	3432.1	3451.9	3468.7	3502.3	3537.4
12.5°	3180.3	3186.4	3195.5	3227.6	3252.0	3245.9	3262.7	3276.4	3296.3	3329.8	3380.2
15°	3107.0	3113.1	3122.3	3146.7	3162.0	3154.3	3163.5	3172.6	3186.4	3203.2	3233.7
17.5°	3027.7	3038.4	3049.0	3075.0	3088.7	3087.2	3094.8	3097.9	3102.4	3113.1	3134.5
20°	2904.1	2937.6	2959.0	2994.1	3013.9	3010.9	3024.6	3029.2	3035.3	3046.0	3055.1
22.5°	2791.1	2800.3	2811.0	2849.1	2882.7	2923.9	2933.1	2945.3	2960.5	2971.2	2980.4
25°	2727.0	2720.9	2725.5	2751.5	2769.8	2772.8	2786.6	2826.2	2867.4	2885.7	2907.1
27.5°	2688.9	2682.8	2681.3	2693.5	2696.5	2688.9	2685.8	2698.0	2728.6	2759.1	2823.2
30°	2647.7	2640.1	2634.0	2644.6	2649.2	2638.5	2618.7	2608.0	2626.3	2634.0	2659.9
32.5°	2598.9	2591.2	2588.2	2594.3	2597.3	2588.2	2566.8	2554.6	2551.5	2545.4	2551.5
35°	2543.9	2536.3	2531.7	2533.2	2539.3	2531.7	2513.4	2498.1	2490.5	2473.7	2461.5
37.5°	1310.9	1857.2	2411.1	2469.1	2475.2	2473.7	2455.4	2438.6	2431.0	2411.1	2405.0
40°	599.7	669.9	1005.7	1313.9	1895.3	2408.1	2391.3	2374.5	2360.8	2354.7	2331.8
42.5°	598.2	599.7	601.3	593.6	735.6	1252.9	1849.6	2308.9	2299.7	2284.5	2267.7
45°	598.2	590.6	596.7	587.5	590.6	589.1	734.0	1184.2	2107.5	2202.1	2194.5
47.5°	592.1	587.5	593.6	586.0	576.8	581.4	575.3	582.9	909.5	1542.8	2113.6
50°	564.6	567.7	578.4	576.8	569.2	575.3	564.6	573.8	566.2	621.1	1196.4
52.5°	523.4	529.5	540.2	549.4	552.4	560.1	557.0	560.1	554.0	555.5	557.0
55°	474.6	482.2	491.4	505.1	511.2	523.4	532.6	537.2	544.8	543.3	531.1
57.5°	428.8	436.4	444.1	457.8	471.5	477.7	494.4	503.6	523.4	518.9	515.8
60°	386.1	392.2	399.8	402.9	419.7	430.3	445.6	454.8	480.7	486.8	496.0
62.5°	347.9	351.0	357.1	361.7	372.4	383.0	390.7	405.9	419.7	439.5	453.2
65°	312.8	315.9	320.5	323.5	325.0	340.3	344.9	361.7	366.3	387.6	399.8
67.5°	273.2	279.3	285.4	288.4	291.5	300.6	303.7	311.3	322.0	331.2	346.4
70°	232.0	236.5	242.6	247.2	253.3	259.4	268.6	273.2	280.8	286.9	299.1
72.5°	193.8	198.4	201.4	206.0	210.6	215.2	222.8	233.5	239.6	250.3	253.3
75°	157.2	161.8	164.8	167.9	172.4	175.5	178.5	189.2	195.3	204.5	213.6
77.5°	129.7	129.7	132.8	141.9	140.4	140.4	143.4	149.6	154.1	160.2	169.4
80°	100.7	102.2	103.8	111.4	112.9	114.5	112.9	117.5	122.1	123.6	129.7
82.5°	74.8	76.3	76.3	80.9	85.5	85.5	85.5	87.0	91.6	93.1	96.1
85°	50.4	51.9	53.4	54.9	58.0	59.5	61.0	61.0	64.1	65.6	67.1
87.5°	27.5	30.5	32.0	33.6	35.1	36.6	38.2	39.7	41.2	42.7	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

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CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8	3329.8
2.5°	3346.6	3339.0	3334.4	3322.2	3319.1	3299.3	3302.4	3299.3	3299.3	3303.9	3319.1
5°	3490.1	3453.4	3444.3	3418.3	3397.0	3360.3	3337.5	3325.2	3306.9	3299.3	3310.0
7.5°	3587.7	3560.3	3537.4	3514.5	3484.0	3441.2	3409.2	3372.6	3342.0	3313.0	3305.4
10°	3570.9	3601.5	3601.5	3587.7	3558.7	3516.0	3477.9	3432.1	3378.7	3332.9	3305.4
12.5°	3429.0	3482.4	3525.2	3557.2	3586.2	3557.2	3519.1	3482.4	3422.9	3355.8	3305.4
15°	3273.4	3328.3	3381.7	3448.9	3519.1	3548.1	3546.5	3503.8	3450.4	3380.2	3310.0
17.5°	3163.5	3201.6	3230.6	3303.9	3389.3	3464.1	3514.5	3517.5	3465.6	3403.1	3311.5
20°	3081.1	3108.6	3133.0	3174.2	3248.9	3340.5	3433.6	3485.5	3476.3	3407.7	3316.1
22.5°	3006.3	3026.1	3046.0	3076.5	3136.0	3195.5	3303.9	3410.7	3456.5	3400.0	3311.5
25°	2931.5	2952.9	2968.2	2989.5	3036.8	3085.7	3162.0	3294.7	3397.0	3393.9	3302.4
27.5°	2843.0	2872.0	2890.3	2919.3	2951.4	2988.0	3039.9	3165.0	3311.5	3363.4	3277.9
30°	2736.2	2778.9	2806.4	2838.4	2865.9	2898.0	2939.2	3015.5	3197.1	3303.9	3252.0
32.5°	2582.1	2658.4	2719.4	2749.9	2780.5	2807.9	2844.5	2908.6	3056.7	3223.0	3223.0
35°	2472.2	2507.3	2562.2	2650.7	2688.9	2716.4	2749.9	2800.3	2894.9	3126.9	3175.7
37.5°	2386.7	2400.5	2427.9	2514.9	2586.6	2630.9	2664.5	2696.5	2789.6	2995.6	3114.7
40°	2322.6	2318.1	2315.0	2356.2	2458.5	2528.7	2566.8	2598.9	2670.6	2838.4	3033.8
42.5°	2247.9	2243.3	2228.0	2238.7	2289.1	2406.6	2464.6	2499.7	2559.2	2673.6	2945.3
45°	2170.0	2162.4	2156.3	2145.6	2163.9	2229.6	2348.6	2400.5	2434.0	2536.3	2833.9
47.5°	2090.7	2080.0	2072.4	2063.2	2052.5	2083.0	2196.0	2289.1	2347.1	2411.1	2699.6
50°	1977.8	1991.5	1982.3	1971.6	1962.5	1956.4	2003.7	2156.3	2228.0	2279.9	2536.3
52.5°	932.4	1812.9	1889.2	1878.6	1866.4	1855.7	1866.4	1982.3	2112.0	2153.2	2339.4
55°	531.1	807.3	1680.2	1776.3	1765.6	1750.4	1741.2	1780.9	1974.7	2029.6	2159.4
57.5°	511.2	512.8	741.7	1600.8	1660.3	1646.6	1635.9	1645.1	1809.9	1903.0	2002.2
60°	494.4	494.4	494.4	708.1	1530.6	1535.2	1521.5	1506.2	1577.9	1761.1	1843.5
62.5°	457.8	467.0	471.5	471.5	698.9	1417.7	1404.0	1399.4	1402.4	1590.1	1684.8
65°	410.5	431.9	441.0	447.1	447.1	734.0	1283.4	1275.8	1265.1	1336.8	1524.5
67.5°	358.6	380.0	399.8	412.0	413.6	427.3	766.1	1149.1	1133.9	1135.4	1353.6
70°	305.2	323.5	344.9	363.2	380.0	387.6	399.8	953.8	1004.1	982.8	1159.8
72.5°	264.0	271.6	286.9	305.2	325.0	343.4	354.0	380.0	871.4	848.5	882.1
75°	219.8	225.9	236.5	248.7	264.0	285.4	303.7	322.0	462.4	711.1	706.6
77.5°	170.9	181.6	193.8	201.4	209.1	224.3	248.7	267.1	285.4	480.7	566.2
80°	131.2	138.9	145.0	152.6	161.8	172.4	181.6	203.0	224.3	241.1	433.4
82.5°	97.7	102.2	106.8	109.9	112.9	119.0	135.8	143.4	157.2	172.4	204.5
85°	68.7	71.7	74.8	76.3	77.8	79.4	85.5	87.0	100.7	103.8	123.6
87.5°	44.3	45.8	48.8	50.4	50.4	51.9	53.4	53.4	53.4	50.4	61.0
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: P1213187

CATALOG NUMBER: 4SNLED-LD5-84SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	3329.8	3329.8
2.5°	3331.4	3355.8
5°	3326.8	3358.8
7.5°	3314.6	3345.1
10°	3296.3	3332.9
12.5°	3276.4	3311.5
15°	3259.6	3285.6
17.5°	3241.3	3256.6
20°	3216.9	3229.1
22.5°	3192.5	3186.4
25°	3165.0	3151.3
27.5°	3129.9	3104.0
30°	3097.9	3052.1
32.5°	3067.3	2992.6
35°	3026.1	2931.5
37.5°	2983.4	2869.0
40°	2933.1	2797.2
42.5°	2879.6	2725.5
45°	2812.5	2656.8
47.5°	2753.0	2574.4
50°	2670.6	2485.9
52.5°	2569.9	2403.5
55°	2450.8	2302.8
57.5°	2322.6	2197.5
60°	2185.3	2076.9
62.5°	2019.0	1951.8
65°	1823.6	1808.4
67.5°	1568.8	1649.7
70°	1286.5	1468.1
72.5°	1075.9	1275.8
75°	882.1	1060.6
77.5°	698.9	831.7
80°	436.4	608.9
82.5°	293.0	399.8
85°	177.0	190.8
87.5°	68.7	70.2
90°	0.0	0.0

(END OF REPORT)