

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: P1213536

Luminaire Tested: 4SNLED-LD5-80HL-RW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213536
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-LD5-80HL-RW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

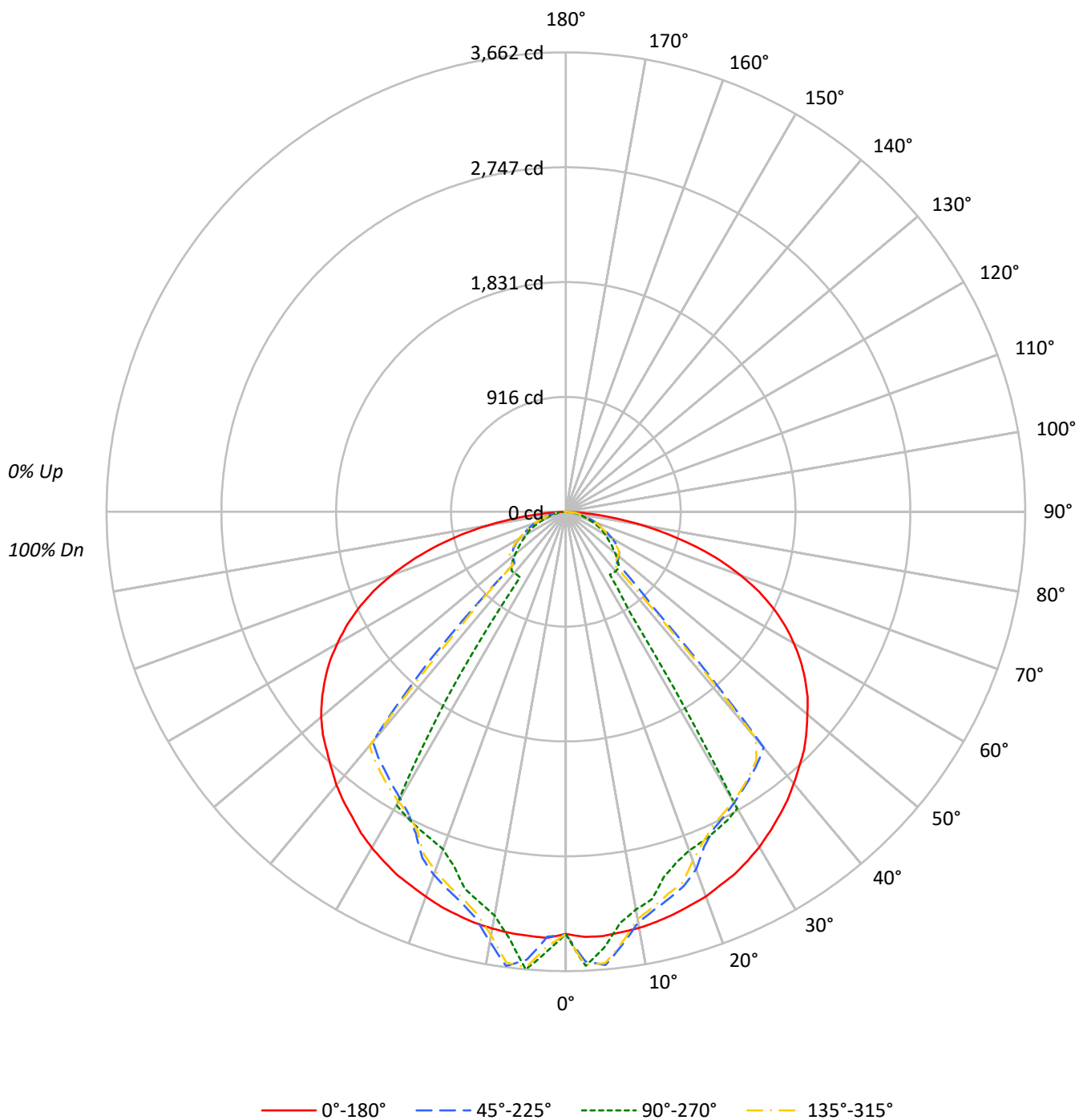
Lumens per Lamp: N/A
Luminaire Lumens: 6740.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 79
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	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°	27199	27199	27199	27199
5°	27466	27404	27453	28760
10°	27493	24776	27530	25156
15°	27553	22923	27618	23651
20°	27754	21742	27754	21661
25°	27994	21327	28034	21128
30°	28276	20950	28348	20702
35°	28606	4771	28666	4977
40°	29064	4963	29239	5123
45°	29761	4935	29864	5114
50°	30456	4462	30867	4582
55°	31393	3961	31643	4018
60°	32188	3520	32259	3565
65°	32757	3072	32674	3023
70°	32288	2476	32188	2387
75°	29978	1905	30193	1826
80°	24331	1353	25304	1239
85°	13172	811	13909	622

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 32981 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.2	4.9
10°-20°	910.5	13.5
20°-30°	1348.6	20.0
30°-40°	1358.9	20.2
40°-50°	1061.5	15.7
50°-60°	819.9	12.2
60°-70°	550.5	8.2
70°-80°	280.8	4.2
80°-90°	78.1	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°	2590.3	38.4
0°-40°	3949.2	58.6
0°-60°	5830.6	86.5
0°-90°	6740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6740.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3366	3366	3366	3366	3366	
5°	3395	3489	3394	3662	3395	323
15°	3321	3016	3329	3111	3321	939
25°	3185	2810	3190	2784	3185	1469
35°	2963	611	2969	637	2963	1857
45°	2686	594	2695	616	2686	2071
55°	2328	432	2346	438	2328	2079
65°	1828	290	1823	285	1828	1798
75°	1072	146	1080	140	1072	1121
85°	193	46	204	36	193	265
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°	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8
2.5°	3392.0	3404.3	3413.6	3419.8	3422.9	3422.9	3424.4	3425.9	3446.0	3455.2	3461.4
5°	3395.1	3407.4	3425.9	3450.6	3472.2	3490.7	3506.2	3527.7	3549.3	3572.5	3580.2
7.5°	3381.2	3396.6	3433.7	3478.4	3520.0	3549.3	3569.4	3583.3	3594.1	3595.6	3603.3
10°	3368.9	3396.6	3447.5	3506.2	3558.6	3594.1	3594.1	3586.4	3597.2	3555.5	3513.9
12.5°	3347.3	3378.1	3447.5	3524.7	3574.0	3587.9	3581.7	3550.9	3487.6	3436.7	3413.6
15°	3321.0	3362.7	3449.1	3535.5	3577.1	3581.7	3523.1	3444.5	3396.6	3365.8	3327.2
17.5°	3291.7	3347.3	3450.6	3537.0	3552.4	3530.8	3419.8	3370.4	3321.0	3248.6	3196.1
20°	3264.0	3318.0	3438.3	3515.4	3524.7	3427.5	3341.1	3288.7	3205.4	3142.1	3119.0
22.5°	3220.8	3284.0	3427.5	3486.1	3450.6	3338.0	3254.7	3171.4	3095.8	3077.3	3049.6
25°	3185.3	3251.6	3402.8	3450.6	3356.5	3256.3	3159.1	3061.9	3026.4	3000.2	2975.5
27.5°	3137.5	3219.2	3370.4	3385.8	3256.3	3168.3	3026.4	2983.2	2950.8	2921.5	2910.7
30°	3085.0	3185.3	3325.7	3296.4	3173.0	3043.4	2938.5	2898.4	2875.3	2844.4	2832.1
32.5°	3024.9	3134.4	3276.3	3193.0	3083.5	2921.5	2853.7	2822.8	2792.0	2768.8	2691.7
35°	2963.2	3089.7	3217.7	3094.3	2975.5	2829.0	2768.8	2741.1	2711.8	2626.9	2546.7
37.5°	2899.9	3040.3	3146.7	2987.9	2832.1	2733.3	2682.4	2651.6	2585.3	2477.3	2437.2
40°	2827.4	2980.2	3055.7	2878.3	2707.1	2636.2	2588.4	2557.5	2407.9	2360.1	2347.7
42.5°	2754.9	2921.5	2944.7	2771.9	2603.8	2532.8	2492.7	2390.9	2289.1	2264.4	2269.0
45°	2685.5	2858.3	2822.8	2620.7	2495.8	2437.2	2369.3	2228.9	2175.0	2187.3	2190.4
47.5°	2602.2	2782.7	2694.8	2469.6	2384.7	2326.1	2175.0	2090.1	2082.4	2099.4	2108.6
50°	2512.8	2697.9	2559.0	2332.3	2264.4	2195.0	2023.8	1980.6	1989.9	2006.8	2017.6
52.5°	2429.5	2602.2	2418.7	2204.3	2145.6	1986.8	1871.1	1878.8	1894.2	1914.3	1920.4
55°	2327.7	2486.5	2269.0	2074.7	2019.2	1810.9	1758.5	1777.0	1792.4	1809.4	1821.7
57.5°	2221.2	2353.9	2091.7	1929.7	1840.2	1655.1	1659.8	1672.1	1682.9	1702.9	703.4
60°	2099.4	2202.7	1897.3	1795.5	1618.1	1531.7	1536.4	1557.9	1568.7	876.2	484.4
62.5°	1972.9	2026.9	1721.5	1642.8	1414.5	1408.3	1429.9	1439.2	979.5	462.8	453.5
65°	1827.9	1817.1	1548.7	1423.7	1275.7	1281.8	1305.0	1258.7	433.4	433.4	430.4
67.5°	1667.5	1602.7	1380.6	1178.5	1141.5	1155.3	1180.0	411.9	401.1	404.1	393.3
70°	1483.9	1392.9	1206.3	998.0	1010.4	1024.2	398.0	373.3	368.7	361.0	339.4
72.5°	1289.5	1164.6	987.2	866.9	874.6	549.1	348.6	336.3	320.8	305.4	282.3
75°	1072.1	910.1	725.0	725.0	735.8	313.1	303.9	283.8	266.9	246.8	232.9
77.5°	840.7	700.3	563.0	584.6	285.4	262.2	245.3	223.7	209.8	197.4	189.7
80°	615.5	489.0	424.2	379.5	222.1	199.0	182.0	169.7	163.5	155.8	146.5
82.5°	404.1	294.6	294.6	178.9	155.8	137.3	132.7	123.4	117.2	112.6	108.0
85°	192.8	171.2	129.6	109.5	97.2	87.9	84.8	80.2	80.2	78.7	77.1
87.5°	71.0	77.1	57.1	55.5	52.4	50.9	52.4	52.4	54.0	52.4	50.9
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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8
2.5°	3476.8	3489.2	3498.4	3513.9	3533.9	3550.9	3566.3	3587.9	3621.8	3631.1	3638.8
5°	3580.2	3584.8	3595.6	3608.0	3611.0	3618.8	3617.2	3626.5	3631.1	3641.9	3618.8
7.5°	3586.4	3561.7	3532.4	3506.2	3487.6	3470.7	3459.9	3476.8	3486.1	3493.8	3470.7
10°	3456.8	3427.5	3410.5	3395.1	3376.6	3350.4	3314.9	3322.6	3319.5	3319.5	3311.8
12.5°	3375.0	3333.4	3290.2	3251.6	3234.7	3233.1	3234.7	3251.6	3251.6	3250.1	3240.8
15°	3247.0	3206.9	3185.3	3176.1	3176.1	3171.4	3171.4	3189.9	3185.3	3185.3	3180.7
17.5°	3162.2	3134.4	3119.0	3108.2	3103.6	3111.3	3120.5	3128.2	3129.8	3123.6	3098.9
20°	3092.8	3066.5	3048.0	3051.1	3049.6	3054.2	3058.8	3032.6	3000.2	2957.0	2937.0
22.5°	3020.3	3000.2	2986.3	2986.3	2967.8	2938.5	2895.3	2886.1	2881.4	2861.4	2844.4
25°	2950.8	2927.7	2907.7	2846.0	2807.4	2812.0	2804.3	2788.9	2787.3	2785.8	2792.0
27.5°	2881.4	2821.3	2744.1	2734.9	2719.5	2717.9	2727.2	2734.9	2734.9	2741.1	2748.8
30°	2738.0	2668.6	2654.7	2637.7	2643.9	2665.5	2670.1	2680.9	2684.0	2694.8	2701.0
32.5°	2606.9	2576.0	2563.7	2571.4	2591.4	2609.9	2620.7	2625.4	2633.1	2642.3	2650.1
35°	2500.4	2491.2	2502.0	2518.9	2539.0	2554.4	2563.7	2572.9	2580.6	2588.4	2594.5
37.5°	2421.8	2427.9	2443.4	2464.9	2485.0	2497.3	2505.1	2515.9	2526.7	2535.9	2498.9
40°	2347.7	2363.1	2380.1	2403.2	2420.2	2432.6	2440.3	2454.2	2361.6	1069.0	586.2
42.5°	2282.9	2299.9	2312.2	2330.8	2349.3	2358.5	2290.6	1022.7	578.4	575.4	583.1
45°	2204.3	2218.1	2238.2	2252.1	2269.0	1490.1	569.2	575.4	566.1	572.3	575.4
47.5°	2124.1	2145.6	2156.4	2057.7	612.4	566.1	559.9	566.1	559.9	567.6	563.0
50°	2033.0	2059.3	1465.4	553.8	549.1	546.1	552.2	549.1	553.8	559.9	547.6
52.5°	1940.5	1201.6	536.8	533.7	536.8	533.7	544.5	536.8	538.3	532.2	516.7
55°	657.1	519.8	515.2	513.7	522.9	522.9	522.9	510.6	502.9	487.4	476.6
57.5°	502.9	502.9	501.3	502.9	499.8	496.7	482.8	472.0	461.2	439.6	433.4
60°	476.6	476.6	476.6	476.6	462.8	456.6	435.0	425.7	407.2	396.4	390.3
62.5°	455.0	452.0	438.1	433.4	418.0	401.1	388.7	379.5	361.0	354.8	350.2
65°	424.2	413.4	396.4	377.9	370.2	351.7	345.5	331.6	322.4	317.8	314.7
67.5°	373.3	357.9	344.0	331.6	317.8	311.6	303.9	293.1	286.9	283.8	280.7
70°	319.3	308.5	294.6	286.9	277.7	273.0	262.2	259.1	254.5	249.9	245.3
72.5°	266.9	260.7	254.5	243.7	240.6	237.5	226.8	220.6	214.4	208.2	205.2
75°	223.7	219.0	216.0	206.7	202.1	192.8	185.1	180.5	175.8	171.2	168.1
77.5°	183.6	180.5	171.2	165.0	162.0	154.3	151.2	152.7	149.6	143.5	140.4
80°	143.5	140.4	132.7	132.7	129.6	126.5	123.4	120.3	117.2	112.6	109.5
82.5°	109.5	106.4	103.3	100.3	97.2	95.6	94.1	91.0	87.9	84.8	83.3
85°	77.1	75.6	74.0	72.5	71.0	69.4	67.9	64.8	61.7	60.2	58.6
87.5°	52.4	50.9	49.4	47.8	46.3	44.7	43.2	41.6	38.6	37.0	35.5
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):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8
2.5°	3638.8	3646.5	3638.8	3621.8	3611.0	3606.4	3615.7	3615.7	3621.8	3629.6	3631.1
5°	3581.7	3563.2	3541.6	3520.0	3509.2	3503.1	3486.1	3489.2	3493.8	3496.9	3500.0
7.5°	3439.8	3415.1	3385.8	3358.1	3347.3	3338.0	3318.0	3318.0	3318.0	3319.5	3328.8
10°	3294.8	3284.0	3271.7	3253.2	3239.3	3234.7	3217.7	3222.3	3219.2	3223.9	3234.7
12.5°	3227.0	3214.6	3203.8	3185.3	3169.9	3163.7	3156.0	3160.6	3159.1	3166.8	3176.1
15°	3165.3	3159.1	3146.7	3132.9	3119.0	3106.6	3078.9	3069.6	3063.4	3055.7	3066.5
17.5°	3063.4	3020.3	2990.9	2969.4	2953.9	2943.1	2935.4	2935.4	2940.0	2944.7	2953.9
20°	2924.6	2912.3	2898.4	2875.3	2859.8	2853.7	2849.0	2849.0	2856.8	2862.9	2879.9
22.5°	2829.0	2827.4	2822.8	2812.0	2804.3	2804.3	2805.8	2808.9	2819.7	2829.0	2846.0
25°	2784.3	2790.4	2787.3	2781.2	2776.5	2778.1	2775.0	2778.1	2788.9	2798.1	2812.0
27.5°	2748.8	2758.0	2754.9	2745.7	2738.0	2741.1	2745.7	2742.6	2751.9	2762.7	2773.5
30°	2701.0	2702.5	2708.7	2697.9	2694.8	2699.4	2701.0	2704.0	2713.3	2721.0	2730.3
32.5°	2647.0	2659.3	2657.8	2647.0	2647.0	2651.6	2653.1	2549.8	2357.0	2030.0	1940.5
35°	2594.5	2608.4	2585.3	2179.6	1508.6	805.2	621.6	600.0	604.7	607.8	610.8
37.5°	1918.9	910.1	580.0	584.6	589.2	593.9	598.5	603.1	607.8	612.4	613.9
40°	576.9	575.4	580.0	586.2	590.8	593.9	600.0	604.7	609.3	613.9	615.5
42.5°	570.7	573.8	578.4	584.6	590.8	597.0	601.6	607.8	610.8	613.9	615.5
45°	567.6	573.8	580.0	584.6	589.2	592.3	595.4	597.0	595.4	595.4	598.5
47.5°	563.0	569.2	570.7	569.2	570.7	569.2	569.2	569.2	564.6	563.0	563.0
50°	546.1	546.1	543.0	536.8	535.3	533.7	530.6	529.1	522.9	521.4	521.4
52.5°	510.6	509.0	504.4	496.7	493.6	490.5	489.0	487.4	481.3	478.2	479.7
55°	468.9	465.8	461.2	452.0	450.4	447.3	445.8	444.2	438.1	441.2	436.5
57.5°	430.4	424.2	418.0	416.5	410.3	408.8	407.2	405.7	401.1	402.6	399.5
60°	384.1	382.5	379.5	373.3	373.3	371.7	371.7	368.7	365.6	364.0	364.0
62.5°	350.2	345.5	342.4	342.4	337.8	337.8	337.8	334.7	331.6	333.2	331.6
65°	313.1	311.6	310.0	307.0	307.0	305.4	305.4	302.3	297.7	299.2	296.2
67.5°	282.3	279.2	276.1	274.6	268.4	265.3	263.8	262.2	256.1	257.6	254.5
70°	243.7	239.1	236.0	232.9	228.3	225.2	225.2	222.1	217.5	219.0	216.0
72.5°	203.6	200.5	197.4	195.9	191.3	189.7	188.2	186.6	182.0	183.6	182.0
75°	169.7	169.7	168.1	166.6	162.0	157.3	154.3	152.7	149.6	151.2	148.1
77.5°	140.4	137.3	134.2	134.2	129.6	126.5	123.4	123.4	123.4	121.9	120.3
80°	109.5	106.4	106.4	104.9	101.8	98.7	97.2	97.2	95.6	95.6	94.1
82.5°	83.3	80.2	78.7	78.7	75.6	74.0	72.5	71.0	71.0	71.0	69.4
85°	58.6	55.5	54.0	54.0	50.9	49.4	49.4	47.8	47.8	46.3	46.3
87.5°	35.5	33.9	32.4	32.4	29.3	27.8	27.8	27.8	26.2	26.2	24.7
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: P1213536

CATALOG NUMBER: 4SNLED-LD5-80HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8
2.5°	3631.1	3631.1	3620.3	3623.4	3618.8	3624.9	3617.2	3617.2	3626.5	3626.5	3632.6
5°	3501.5	3493.8	3492.3	3489.2	3473.8	3479.9	3472.2	3464.5	3475.3	3475.3	3489.2
7.5°	3324.1	3310.3	3316.4	3307.2	3297.9	3284.0	3288.7	3282.5	3290.2	3301.0	3314.9
10°	3233.1	3220.8	3228.5	3219.2	3223.9	3203.8	3205.4	3206.9	3214.6	3217.7	3230.0
12.5°	3174.5	3171.4	3168.3	3165.3	3168.3	3157.5	3151.4	3152.9	3156.0	3157.5	3166.8
15°	3051.1	3031.1	3037.2	3015.6	3017.2	3018.7	3006.4	3018.7	3017.2	3037.2	3055.7
17.5°	2950.8	2950.8	2940.0	2930.8	2924.6	2923.1	2913.8	2920.0	2913.8	2926.2	2930.8
20°	2881.4	2879.9	2878.3	2873.7	2858.3	2859.8	2864.5	2850.6	2849.0	2847.5	2856.8
22.5°	2849.0	2850.6	2844.4	2844.4	2830.5	2833.6	2835.2	2819.7	2821.3	2816.6	2821.3
25°	2815.1	2818.2	2810.5	2810.5	2807.4	2805.8	2798.1	2801.2	2792.0	2784.3	2792.0
27.5°	2775.0	2781.2	2775.0	2778.1	2771.9	2768.8	2764.2	2761.1	2751.9	2750.3	2754.9
30°	2738.0	2741.1	2739.5	2731.8	2730.3	2721.0	2725.6	2716.4	2707.1	2708.7	2711.8
32.5°	1403.7	1340.5	1033.5	933.2	924.0	957.9	1135.3	1382.1	1790.9	2187.3	2472.7
35°	612.4	612.4	612.4	610.8	610.8	609.3	607.8	606.2	604.7	603.1	601.6
37.5°	615.5	615.5	615.5	615.5	613.9	612.4	612.4	609.3	607.8	606.2	604.7
40°	617.0	618.6	618.6	618.6	617.0	617.0	615.5	612.4	610.8	607.8	604.7
42.5°	615.5	617.0	617.0	615.5	615.5	613.9	613.9	612.4	610.8	609.3	607.8
45°	595.4	597.0	593.9	593.9	592.3	592.3	592.3	592.3	592.3	593.9	593.9
47.5°	559.9	559.9	558.4	556.9	556.9	555.3	556.9	555.3	558.4	559.9	563.0
50°	518.3	518.3	515.2	513.7	513.7	513.7	513.7	515.2	516.7	519.8	522.9
52.5°	475.1	475.1	473.6	472.0	470.5	470.5	475.1	473.6	475.1	476.6	481.3
55°	433.4	435.0	431.9	431.9	430.4	430.4	430.4	431.9	433.4	435.0	439.6
57.5°	398.0	398.0	394.9	394.9	394.9	393.3	398.0	394.9	396.4	398.0	401.1
60°	362.5	361.0	361.0	359.4	359.4	359.4	362.5	361.0	361.0	362.5	365.6
62.5°	330.1	330.1	328.6	328.6	327.0	327.0	330.1	328.6	328.6	330.1	331.6
65°	293.1	293.1	291.5	290.0	294.6	290.0	294.6	291.5	294.6	296.2	299.2
67.5°	251.4	251.4	251.4	249.9	249.9	253.0	254.5	251.4	253.0	256.1	257.6
70°	214.4	214.4	212.9	212.9	212.9	216.0	217.5	214.4	216.0	217.5	220.6
72.5°	182.0	178.9	178.9	177.4	180.5	180.5	182.0	180.5	182.0	182.0	185.1
75°	149.6	146.5	146.5	146.5	149.6	148.1	149.6	148.1	149.6	149.6	151.2
77.5°	120.3	118.8	117.2	117.2	120.3	120.3	120.3	118.8	120.3	121.9	123.4
80°	94.1	92.6	91.0	91.0	94.1	94.1	94.1	95.6	94.1	95.6	97.2
82.5°	69.4	67.9	66.3	69.4	69.4	69.4	69.4	71.0	69.4	71.0	72.5
85°	46.3	44.7	43.2	46.3	46.3	46.3	46.3	47.8	46.3	47.8	49.4
87.5°	24.7	23.1	23.1	24.7	24.7	24.7	26.2	26.2	26.2	27.8	27.8
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: P1213536

CATALOG NUMBER: 4SNLED-LD5-80HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8
2.5°	3641.9	3646.5	3645.0	3635.7	3626.5	3615.7	3608.0	3609.5	3624.9	3629.6	3615.7
5°	3489.2	3518.5	3518.5	3538.5	3527.7	3518.5	3524.7	3558.6	3575.6	3601.8	3611.0
7.5°	3331.8	3345.7	3344.2	3364.2	3361.2	3361.2	3365.8	3410.5	3432.1	3453.7	3459.9
10°	3243.9	3257.8	3256.3	3257.8	3253.2	3242.4	3242.4	3262.4	3280.9	3291.7	3294.8
12.5°	3180.7	3188.4	3186.9	3186.9	3183.8	3174.5	3173.0	3189.9	3210.0	3223.9	3225.4
15°	3086.6	3108.2	3112.8	3132.9	3128.2	3115.9	3119.0	3132.9	3145.2	3157.5	3152.9
17.5°	2946.2	2957.0	2958.6	2966.3	2963.2	2963.2	2981.7	3032.6	3066.5	3095.8	3098.9
20°	2866.0	2873.7	2870.6	2887.6	2879.9	2878.3	2883.0	2904.6	2920.0	2933.9	2958.6
22.5°	2827.4	2833.6	2829.0	2830.5	2816.6	2804.3	2801.2	2818.2	2835.2	2853.7	2853.7
25°	2795.0	2799.7	2798.1	2795.0	2784.3	2767.3	2764.2	2767.3	2773.5	2775.0	2764.2
27.5°	2756.5	2759.6	2759.6	2761.1	2747.2	2731.8	2728.7	2725.6	2731.8	2730.3	2713.3
30°	2716.4	2711.8	2713.3	2714.8	2702.5	2688.6	2682.4	2680.9	2687.1	2685.5	2668.6
32.5°	2620.7	2656.2	2659.3	2662.4	2651.6	2639.3	2633.1	2628.5	2631.5	2630.0	2614.6
35°	600.0	610.8	748.1	1693.7	2299.9	2546.7	2572.9	2566.8	2568.3	2568.3	2556.0
37.5°	601.6	600.0	598.5	593.9	589.2	586.2	1013.4	2161.1	2503.5	2505.1	2494.3
40°	601.6	600.0	598.5	595.4	589.2	584.6	576.9	570.7	584.6	1286.5	2353.9
42.5°	604.7	601.6	598.5	595.4	589.2	583.1	576.9	569.2	573.8	570.7	563.0
45°	595.4	593.9	593.9	592.3	589.2	583.1	575.4	566.1	561.5	566.1	558.4
47.5°	566.1	567.6	572.3	573.8	573.8	575.4	570.7	564.6	556.9	561.5	552.2
50°	526.0	529.1	530.6	538.3	541.4	547.6	549.1	549.1	547.6	553.8	547.6
52.5°	482.8	485.9	493.6	496.7	499.8	509.0	512.1	516.7	519.8	529.1	535.3
55°	441.2	442.7	445.8	452.0	456.6	464.3	468.9	473.6	481.3	485.9	504.4
57.5°	402.6	404.1	410.3	411.9	414.9	421.1	425.7	431.9	438.1	441.2	462.8
60°	365.6	367.1	371.7	373.3	374.8	381.0	385.6	390.3	394.9	398.0	413.4
62.5°	333.2	333.2	337.8	337.8	339.4	344.0	347.1	350.2	354.8	356.3	364.0
65°	300.8	302.3	305.4	305.4	307.0	310.0	311.6	313.1	317.8	317.8	323.9
67.5°	260.7	262.2	266.9	269.9	271.5	277.7	279.2	280.7	283.8	285.4	288.5
70°	222.1	223.7	228.3	229.8	231.4	236.0	239.1	243.7	248.3	253.0	256.1
72.5°	186.6	188.2	192.8	192.8	197.4	199.0	202.1	203.6	208.2	211.3	216.0
75°	152.7	154.3	158.9	158.9	163.5	165.0	166.6	168.1	171.2	174.3	177.4
77.5°	124.9	124.9	131.1	134.2	137.3	137.3	138.8	138.8	138.8	140.4	143.5
80°	98.7	98.7	103.3	106.4	109.5	109.5	111.1	112.6	114.1	114.1	115.7
82.5°	74.0	74.0	78.7	80.2	83.3	83.3	83.3	84.8	86.4	84.8	87.9
85°	50.9	50.9	54.0	55.5	58.6	58.6	58.6	60.2	61.7	60.2	61.7
87.5°	29.3	30.9	32.4	33.9	35.5	37.0	37.0	37.0	38.6	38.6	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

TEST NUMBER: P1213536

CATALOG NUMBER: 4SNLED-LD5-80HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8
2.5°	3600.2	3581.7	3580.2	3558.6	3552.4	3554.0	3537.0	3530.8	3503.1	3496.9	3467.6
5°	3614.1	3623.4	3618.8	3617.2	3621.8	3618.8	3606.4	3600.2	3595.6	3583.3	3558.6
7.5°	3461.4	3467.6	3472.2	3492.3	3509.2	3538.5	3569.4	3589.4	3604.9	3608.0	3587.9
10°	3305.6	3334.9	3355.0	3385.8	3410.5	3427.5	3446.0	3463.0	3507.7	3552.4	3578.7
12.5°	3225.4	3233.1	3231.6	3248.6	3265.5	3310.3	3353.4	3378.1	3412.1	3432.1	3479.9
15°	3157.5	3159.1	3163.7	3176.1	3185.3	3200.7	3220.8	3257.8	3325.7	3356.5	3382.8
17.5°	3095.8	3095.8	3098.9	3109.7	3122.1	3135.9	3148.3	3163.7	3197.6	3248.6	3313.3
20°	2997.1	3040.3	3044.9	3043.4	3049.6	3075.8	3078.9	3106.6	3123.6	3143.7	3206.9
22.5°	2850.6	2876.8	2913.8	2970.9	2992.5	3004.8	3014.1	3026.4	3052.7	3075.8	3102.0
25°	2770.4	2787.3	2798.1	2815.1	2859.8	2932.3	2946.2	2960.1	2977.1	2994.0	3026.4
27.5°	2699.4	2697.9	2705.6	2721.0	2733.3	2771.9	2839.8	2893.8	2896.9	2921.5	2949.3
30°	2648.5	2639.3	2628.5	2625.4	2642.3	2662.4	2682.4	2767.3	2825.9	2838.2	2867.5
32.5°	2600.7	2585.3	2569.8	2557.5	2546.7	2563.7	2576.0	2613.0	2688.6	2759.6	2775.0
35°	2542.1	2526.7	2508.1	2494.3	2477.3	2475.7	2474.2	2509.7	2534.4	2619.2	2693.2
37.5°	2481.9	2464.9	2449.5	2434.1	2417.1	2404.8	2397.1	2406.3	2429.5	2466.5	2589.9
40°	2418.7	2398.6	2383.2	2370.9	2347.7	2338.5	2323.0	2316.9	2318.4	2350.8	2415.6
42.5°	1445.3	2304.5	2312.2	2298.4	2278.3	2266.0	2249.0	2241.3	2225.9	2241.3	2278.3
45°	556.9	563.0	1686.0	2227.4	2202.7	2187.3	2171.9	2164.2	2147.2	2134.9	2168.8
47.5°	546.1	552.2	539.9	765.1	2102.5	2107.1	2088.6	2080.9	2063.9	2054.6	2045.4
50°	538.3	543.0	533.7	536.8	526.0	1926.6	2003.7	1994.5	1976.0	1965.2	1946.7
52.5°	530.6	530.6	524.5	516.7	513.7	515.2	1621.2	1906.6	1885.0	1874.2	1849.5
55°	505.9	509.0	515.2	502.9	499.8	498.2	493.6	1544.1	1784.7	1772.4	1750.8
57.5°	468.9	475.1	492.1	489.0	489.0	476.6	473.6	473.6	1433.0	1669.0	1647.4
60°	425.7	431.9	450.4	456.6	461.2	458.1	455.0	453.5	447.3	1510.1	1537.9
62.5°	381.0	387.2	393.3	413.4	419.6	427.3	436.5	431.9	425.7	425.7	1422.2
65°	333.2	342.4	345.5	364.0	371.7	385.6	393.3	404.1	401.1	399.5	407.2
67.5°	291.5	302.3	303.9	311.6	325.5	331.6	340.9	361.0	370.2	373.3	376.4
70°	256.1	262.2	266.9	269.9	279.2	280.7	297.7	311.6	325.5	340.9	345.5
72.5°	220.6	225.2	234.5	231.4	234.5	240.6	249.9	259.1	273.0	294.6	308.5
75°	180.5	183.6	189.7	192.8	199.0	203.6	209.8	217.5	229.8	240.6	259.1
77.5°	145.0	146.5	151.2	152.7	158.9	163.5	174.3	178.9	186.6	194.4	205.2
80°	117.2	117.2	118.8	118.8	123.4	128.0	135.7	140.4	149.6	155.8	155.8
82.5°	89.5	89.5	94.1	94.1	97.2	97.2	101.8	101.8	106.4	109.5	112.6
85°	63.2	64.8	67.9	66.3	69.4	67.9	71.0	74.0	75.6	74.0	72.5
87.5°	41.6	41.6	44.7	43.2	44.7	44.7	47.8	47.8	49.4	49.4	47.8
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: P1213536

CATALOG NUMBER: 4SNLED-LD5-80HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8
2.5°	3456.8	3433.7	3419.8	3402.8	3398.2	3393.5	3399.7	3399.7	3390.5	3382.8	3368.9
5°	3537.0	3512.3	3486.1	3458.3	3432.1	3404.3	3393.5	3392.0	3375.0	3365.8	3361.2
7.5°	3578.7	3566.3	3537.0	3498.4	3458.3	3409.0	3387.4	3375.0	3358.1	3355.0	3355.0
10°	3583.3	3569.4	3554.0	3526.2	3479.9	3415.1	3373.5	3348.8	3333.4	3344.2	3364.2
12.5°	3538.5	3564.8	3550.9	3532.4	3495.4	3416.7	3356.5	3319.5	3314.9	3342.6	3395.1
15°	3424.4	3501.5	3540.1	3521.6	3492.3	3413.6	3328.8	3285.6	3285.6	3342.6	3410.5
17.5°	3338.0	3398.2	3492.3	3507.7	3473.8	3407.4	3302.5	3251.6	3265.5	3348.8	3421.3
20°	3267.1	3304.1	3395.1	3481.5	3449.1	3393.5	3264.0	3211.5	3239.3	3339.6	3436.7
22.5°	3156.0	3230.0	3285.6	3413.6	3424.4	3367.3	3225.4	3162.2	3217.7	3339.6	3429.0
25°	3048.0	3137.5	3196.1	3321.0	3387.4	3334.9	3189.9	3109.7	3194.6	3334.9	3422.9
27.5°	2972.4	3014.1	3120.5	3210.0	3331.8	3291.7	3142.1	3052.7	3165.3	3310.3	3387.4
30°	2892.2	2920.0	3024.9	3109.7	3257.8	3242.4	3092.8	2989.4	3128.2	3287.1	3294.8
32.5°	2804.3	2835.2	2889.1	3012.5	3154.5	3196.1	3037.2	2926.2	3088.1	3251.6	3186.9
35°	2714.8	2738.0	2781.2	2913.8	3034.1	3126.7	2969.4	2853.7	3060.4	3197.6	3083.5
37.5°	2625.4	2650.1	2687.1	2798.1	2907.7	3061.9	2910.7	2781.2	3009.5	3102.0	2975.5
40°	2540.5	2554.4	2593.0	2662.4	2802.8	2995.6	2844.4	2705.6	2957.0	2980.2	2829.0
42.5°	2384.7	2454.2	2489.6	2545.2	2684.0	2904.6	2767.3	2625.4	2898.4	2858.3	2682.4
45°	2216.6	2367.8	2383.2	2438.7	2579.1	2807.4	2694.8	2546.7	2842.9	2753.4	2543.6
47.5°	2079.3	2188.8	2278.3	2324.6	2454.2	2693.2	2626.9	2480.4	2759.6	2620.7	2407.9
50°	1957.5	2016.1	2178.0	2212.0	2304.5	2556.0	2546.7	2403.2	2643.9	2454.2	2275.2
52.5°	1838.7	1880.3	2026.9	2099.4	2175.0	2407.9	2451.1	2327.7	2517.4	2287.6	2141.0
55°	1735.3	1749.2	1829.4	1982.1	2050.0	2258.3	2346.2	2239.7	2357.0	2128.7	2011.4
57.5°	1628.9	1616.6	1675.2	1871.1	1920.4	2105.5	2235.1	2150.3	2227.4	1966.7	1877.2
60°	1517.8	1500.9	1525.6	1655.1	1783.2	1954.4	2104.0	2051.6	2070.1	1806.3	1727.6
62.5°	1402.2	1385.2	1377.5	1459.2	1649.0	1798.6	1971.3	1942.0	1877.2	1659.8	1542.5
65°	1281.8	1264.9	1252.5	1284.9	1500.9	1596.5	1823.3	1815.5	1665.9	1505.5	1298.8
67.5°	390.3	1150.7	1124.5	1123.0	1264.9	1412.9	1662.8	1650.5	1453.1	1340.5	1118.3
70°	351.7	933.2	991.8	978.0	1039.7	1226.3	1479.3	1470.0	1246.4	1075.1	988.8
72.5°	322.4	330.1	876.2	860.7	874.6	1042.7	1288.0	1263.3	1056.6	848.4	854.6
75°	276.1	290.0	302.3	726.5	708.0	863.8	1079.8	1041.2	871.5	700.3	714.2
77.5°	225.2	242.2	251.4	529.1	572.3	615.5	862.3	811.4	600.0	559.9	266.9
80°	168.1	182.0	197.4	211.3	435.0	430.4	640.1	589.2	418.0	348.6	208.2
82.5°	123.4	128.0	137.3	152.7	172.8	288.5	411.9	362.5	290.0	158.9	143.5
85°	77.1	83.3	87.9	92.6	104.9	172.8	203.6	162.0	121.9	97.2	91.0
87.5°	49.4	49.4	47.8	49.4	50.9	61.7	69.4	66.3	52.4	49.4	49.4
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: P1213536

CATALOG NUMBER: 4SNLED-LD5-80HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8
2.5°	3353.4	3331.8	3331.8	3325.7	3330.3	3330.3	3328.8	3330.3	3341.1	3347.3	3358.1
5°	3351.9	3345.7	3359.6	3376.6	3396.6	3421.3	3427.5	3449.1	3469.1	3495.4	3523.1
7.5°	3372.0	3393.5	3419.8	3447.5	3487.6	3516.9	3543.2	3569.4	3587.9	3612.6	3628.0
10°	3401.3	3444.5	3489.2	3524.7	3567.9	3592.5	3609.5	3612.6	3586.4	3544.7	3510.8
12.5°	3442.9	3493.8	3535.5	3569.4	3589.4	3580.2	3530.8	3479.9	3450.6	3407.4	3347.3
15°	3478.4	3524.7	3567.9	3554.0	3500.0	3449.1	3410.5	3350.4	3291.7	3251.6	3225.4
17.5°	3493.8	3538.5	3523.1	3450.6	3399.7	3341.1	3262.4	3216.2	3177.6	3146.7	3131.3
20°	3503.1	3495.4	3412.1	3359.6	3260.9	3206.9	3156.0	3112.8	3083.5	3068.1	3065.0
22.5°	3478.4	3384.3	3313.3	3219.2	3146.7	3102.0	3061.9	3026.4	3006.4	2994.0	2986.3
25°	3396.6	3287.1	3182.2	3108.2	3046.5	3007.9	2977.1	2947.8	2923.1	2916.9	2901.5
27.5°	3282.5	3193.0	3054.2	2997.1	2943.1	2924.6	2890.7	2861.4	2839.8	2821.3	2771.9
30°	3188.4	3046.5	2946.2	2893.8	2861.4	2839.8	2801.2	2770.4	2733.3	2665.5	2637.7
32.5°	3072.7	2932.3	2836.7	2807.4	2767.3	2748.8	2705.6	2637.7	2580.6	2552.9	2551.3
35°	2923.1	2807.4	2738.0	2711.8	2679.4	2648.5	2559.0	2497.3	2469.6	2472.7	2495.8
37.5°	2798.1	2694.8	2650.1	2613.0	2576.0	2497.3	2421.8	2392.5	2400.2	2415.6	2426.4
40°	2671.6	2593.0	2542.1	2512.8	2429.5	2352.3	2312.2	2323.0	2336.9	2347.7	2361.6
42.5°	2548.2	2492.7	2441.8	2384.7	2270.6	2228.9	2238.2	2252.1	2264.4	2279.8	2293.7
45°	2431.0	2381.7	2323.0	2193.5	2136.4	2147.2	2161.1	2171.9	2190.4	2201.2	2215.1
47.5°	2320.0	2267.5	2164.2	2050.0	2043.8	2065.4	2077.8	2091.7	2105.5	2077.8	1146.1
50°	2195.0	2141.0	1983.7	1940.5	1954.4	1974.4	1989.9	2003.7	1784.7	709.6	546.1
52.5°	2071.6	1934.3	1834.1	1846.4	1860.3	1883.4	1894.2	1406.8	559.9	533.7	535.3
55°	1934.3	1758.5	1729.2	1744.6	1756.9	1780.1	1180.0	516.7	513.7	512.1	524.5
57.5°	1718.4	1611.9	1624.3	1639.7	1652.0	1166.1	502.9	499.8	501.3	502.9	504.4
60°	1525.6	1502.4	1516.3	1530.2	1082.9	485.9	476.6	478.2	484.4	479.7	467.4
62.5°	1372.8	1391.4	1405.2	1230.9	461.2	456.6	461.2	456.6	445.8	438.1	422.7
65°	1255.6	1274.1	1284.9	433.4	431.9	438.1	433.4	418.0	401.1	379.5	374.8
67.5°	1132.2	1150.7	411.9	401.1	407.2	399.5	381.0	362.5	350.2	331.6	323.9
70°	1004.2	430.4	373.3	371.7	361.0	348.6	328.6	310.0	294.6	286.9	279.2
72.5°	725.0	340.9	336.3	323.9	305.4	288.5	271.5	260.7	253.0	248.3	243.7
75°	302.3	296.2	282.3	260.7	242.2	234.5	222.1	214.4	211.3	202.1	199.0
77.5°	253.0	240.6	220.6	205.2	194.4	189.7	180.5	171.2	166.6	165.0	158.9
80°	194.4	177.4	168.1	160.4	157.3	146.5	135.7	131.1	128.0	126.5	121.9
82.5°	132.7	126.5	120.3	109.5	109.5	104.9	100.3	97.2	94.1	94.1	91.0
85°	86.4	81.8	80.2	75.6	75.6	72.5	71.0	69.4	67.9	66.3	64.8
87.5°	49.4	49.4	50.9	49.4	49.4	47.8	46.3	44.7	43.2	43.2	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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CATALOG NUMBER: 4SNLED-LD5-80HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8
2.5°	3372.0	3387.4	3390.5	3442.9	3472.2	3470.7	3461.4	3489.2	3472.2	3463.0	3472.2
5°	3550.9	3569.4	3584.8	3641.9	3661.9	3671.2	3669.7	3685.1	3672.7	3661.9	3661.9
7.5°	3638.8	3645.0	3651.1	3637.3	3628.0	3612.6	3589.4	3555.5	3538.5	3520.0	3496.9
10°	3493.8	3473.8	3481.5	3453.7	3430.6	3413.6	3392.0	3364.2	3341.1	3324.1	3297.9
12.5°	3316.4	3314.9	3318.0	3322.6	3299.5	3285.6	3268.6	3248.6	3231.6	3213.1	3191.5
15°	3208.4	3210.0	3222.3	3217.7	3210.0	3202.3	3183.8	3177.6	3162.2	3142.1	3129.8
17.5°	3131.3	3139.0	3151.4	3145.2	3132.9	3125.1	3111.3	3097.4	3083.5	3068.1	3049.6
20°	3063.4	3071.2	3078.9	3071.2	3048.0	3037.2	3018.7	2975.5	2944.7	2913.8	2886.1
22.5°	2989.4	2994.0	2987.9	2963.2	2904.6	2876.8	2855.2	2842.9	2816.6	2799.7	2782.7
25°	2896.9	2870.6	2830.5	2802.8	2779.6	2767.3	2758.0	2756.5	2753.4	2750.3	2742.6
27.5°	2745.7	2736.4	2714.8	2704.0	2705.6	2710.2	2711.8	2716.4	2711.8	2705.6	2699.4
30°	2633.1	2637.7	2639.3	2642.3	2650.1	2654.7	2656.2	2662.4	2659.3	2654.7	2651.6
32.5°	2562.1	2572.9	2579.1	2588.4	2593.0	2600.7	2600.7	2609.9	2600.7	2599.1	2596.1
35°	2503.5	2512.8	2515.9	2529.7	2534.4	2542.1	2542.1	2549.8	2542.1	2463.4	1945.1
37.5°	2444.9	2454.2	2460.3	2472.7	2474.2	2478.8	2287.6	1673.6	1079.8	836.0	638.6
40°	2375.5	2386.3	2392.5	2397.1	1684.4	1069.0	735.8	598.5	598.5	603.1	607.8
42.5°	2301.4	2309.2	1608.9	936.3	583.1	581.5	586.2	590.8	595.4	601.6	607.8
45°	1809.4	913.2	580.0	566.1	570.7	576.9	583.1	589.2	597.0	603.1	606.2
47.5°	593.9	556.9	564.6	558.4	566.1	573.8	580.0	586.2	587.7	589.2	587.7
50°	549.1	549.1	553.8	553.8	559.9	563.0	563.0	563.0	556.9	555.3	550.7
52.5°	530.6	543.0	536.8	539.9	536.8	532.2	527.5	522.9	513.7	510.6	504.4
55°	521.4	526.0	510.6	505.9	499.8	487.4	481.3	475.1	467.4	464.3	456.6
57.5°	499.8	489.0	472.0	464.3	453.5	441.2	435.0	430.4	422.7	419.6	414.9
60°	459.7	438.1	427.3	418.0	405.7	394.9	390.3	387.2	381.0	379.5	374.8
62.5°	410.3	391.8	382.5	370.2	361.0	354.8	350.2	348.6	342.4	342.4	339.4
65°	356.3	347.1	339.4	327.0	322.4	316.2	314.7	313.1	310.0	308.5	305.4
67.5°	313.1	307.0	296.2	290.0	286.9	282.3	279.2	276.1	269.9	266.9	262.2
70°	274.6	269.9	259.1	254.5	248.3	240.6	236.0	232.9	228.3	225.2	220.6
72.5°	237.5	223.7	216.0	211.3	206.7	199.0	197.4	194.4	189.7	188.2	183.6
75°	191.3	180.5	175.8	172.8	168.1	163.5	163.5	163.5	158.9	157.3	155.8
77.5°	152.7	146.5	143.5	140.4	138.8	135.7	131.1	129.6	124.9	124.9	123.4
80°	117.2	114.1	111.1	109.5	108.0	104.9	101.8	100.3	95.6	95.6	94.1
82.5°	86.4	84.8	83.3	81.8	80.2	78.7	74.0	72.5	69.4	69.4	67.9
85°	61.7	60.2	57.1	55.5	55.5	54.0	49.4	47.8	44.7	44.7	44.7
87.5°	38.6	37.0	35.5	33.9	32.4	30.9	27.8	26.2	26.2	23.1	21.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: 4SNLED-LD5-80HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8
2.5°	3453.7	3479.9	3476.8	3495.4	3500.0	3509.2	3512.3	3513.9	3490.7	3509.2	3510.8
5°	3657.3	3661.9	3665.0	3672.7	3680.5	3682.0	3674.3	3665.0	3668.1	3661.9	3646.5
7.5°	3493.8	3470.7	3466.0	3459.9	3456.8	3453.7	3439.8	3452.2	3438.3	3432.1	3410.5
10°	3293.3	3271.7	3270.1	3270.1	3274.8	3273.2	3270.1	3264.0	3276.3	3268.6	3264.0
12.5°	3188.4	3180.7	3185.3	3182.2	3194.6	3197.6	3194.6	3194.6	3191.5	3185.3	3188.4
15°	3125.1	3119.0	3123.6	3119.0	3128.2	3129.8	3122.1	3126.7	3119.0	3111.3	3108.2
17.5°	3041.9	3028.0	3017.2	3001.7	3003.3	3000.2	2990.9	2990.9	2983.2	2963.2	2964.7
20°	2881.4	2867.5	2861.4	2861.4	2869.1	2872.2	2870.6	2873.7	2866.0	2862.9	2850.6
22.5°	2781.2	2779.6	2782.7	2790.4	2802.8	2819.7	2821.3	2821.3	2821.3	2819.7	2804.3
25°	2745.7	2745.7	2748.8	2759.6	2768.8	2781.2	2784.3	2787.3	2784.3	2784.3	2770.4
27.5°	2705.6	2702.5	2708.7	2719.5	2730.3	2739.5	2747.2	2748.8	2744.1	2744.1	2748.8
30°	2656.2	2654.7	2662.4	2673.2	2682.4	2691.7	2699.4	2705.6	2699.4	2699.4	2694.8
32.5°	2605.3	2605.3	2608.4	2543.6	2358.5	2124.1	2128.7	1992.9	1898.8	1780.1	1937.4
35°	1625.8	1183.1	1016.5	860.7	751.2	680.3	678.7	655.6	644.8	637.1	635.5
37.5°	613.9	617.0	623.2	626.3	630.9	634.0	635.5	635.5	635.5	635.5	634.0
40°	612.4	618.6	623.2	627.8	632.4	635.5	635.5	637.1	638.6	638.6	638.6
42.5°	613.9	620.1	626.3	630.9	634.0	635.5	637.1	638.6	638.6	638.6	638.6
45°	612.4	615.5	615.5	617.0	617.0	617.0	618.6	618.6	617.0	615.5	618.6
47.5°	589.2	589.2	584.6	583.1	581.5	578.4	580.0	578.4	576.9	575.4	578.4
50°	549.1	543.0	539.9	536.8	535.3	532.2	533.7	532.2	530.6	527.5	532.2
52.5°	501.3	499.8	493.6	490.5	489.0	490.5	487.4	485.9	484.4	482.8	484.4
55°	455.0	448.9	447.3	444.2	442.7	444.2	442.7	441.2	439.6	438.1	439.6
57.5°	413.4	408.8	407.2	404.1	404.1	404.1	404.1	402.6	401.1	399.5	401.1
60°	373.3	370.2	368.7	368.7	367.1	367.1	367.1	365.6	364.0	364.0	365.6
62.5°	339.4	339.4	334.7	333.2	333.2	334.7	333.2	331.6	330.1	328.6	331.6
65°	303.9	297.7	296.2	293.1	290.0	291.5	290.0	288.5	286.9	285.4	288.5
67.5°	260.7	259.1	253.0	249.9	248.3	249.9	248.3	246.8	245.3	243.7	246.8
70°	219.0	219.0	212.9	211.3	209.8	209.8	208.2	208.2	206.7	205.2	208.2
72.5°	182.0	182.0	180.5	177.4	175.8	174.3	172.8	171.2	171.2	172.8	172.8
75°	151.2	148.1	141.9	143.5	141.9	140.4	140.4	138.8	137.3	140.4	138.8
77.5°	118.8	117.2	112.6	114.1	112.6	111.1	111.1	109.5	108.0	109.5	109.5
80°	89.5	89.5	87.9	86.4	86.4	84.8	83.3	83.3	81.8	83.3	83.3
82.5°	64.8	64.8	63.2	61.7	60.2	60.2	58.6	58.6	58.6	58.6	58.6
85°	41.6	40.1	40.1	37.0	37.0	37.0	35.5	35.5	35.5	35.5	35.5
87.5°	20.1	20.1	18.5	18.5	17.0	15.4	15.4	13.9	13.9	15.4	15.4
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: P1213536

CATALOG NUMBER: 4SNLED-LD5-80HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8
2.5°	3483.0	3503.1	3486.1	3493.8	3495.4	3521.6	3520.0	3526.2	3515.4	3503.1	3486.1
5°	3660.4	3651.1	3638.8	3668.1	3652.7	3671.2	3677.4	3689.7	3689.7	3688.2	3674.3
7.5°	3433.7	3413.6	3429.0	3439.8	3444.5	3432.1	3456.8	3484.6	3507.7	3521.6	3523.1
10°	3256.3	3262.4	3260.9	3265.5	3276.3	3274.8	3290.2	3305.6	3311.8	3321.0	3324.1
12.5°	3173.0	3171.4	3174.5	3185.3	3191.5	3189.9	3205.4	3214.6	3217.7	3219.2	3217.7
15°	3106.6	3095.8	3103.6	3105.1	3109.7	3109.7	3128.2	3142.1	3148.3	3151.4	3148.3
17.5°	2981.7	2955.5	2980.2	2980.2	2997.1	2994.0	3023.3	3046.5	3058.8	3068.1	3068.1
20°	2858.3	2846.0	2855.2	2852.1	2864.5	2862.9	2881.4	2896.9	2907.7	2915.4	2924.6
22.5°	2808.9	2812.0	2798.1	2799.7	2799.7	2798.1	2807.4	2815.1	2818.2	2822.8	2819.7
25°	2776.5	2779.6	2775.0	2767.3	2764.2	2767.3	2771.9	2781.2	2782.7	2779.6	2768.8
27.5°	2744.1	2734.9	2742.6	2728.7	2725.6	2731.8	2738.0	2739.5	2741.1	2741.1	2731.8
30°	2694.8	2687.1	2694.8	2688.6	2682.4	2688.6	2693.2	2693.2	2696.3	2697.9	2687.1
32.5°	1883.4	1898.8	2148.7	2299.9	2512.8	2620.7	2640.8	2640.8	2643.9	2643.9	2634.6
35°	641.7	643.2	695.7	754.3	879.2	1033.5	1235.6	1340.5	1695.2	2119.4	2529.7
37.5°	634.0	632.4	630.9	629.3	627.8	626.3	623.2	621.6	630.9	748.1	1015.0
40°	637.1	635.5	632.4	630.9	629.3	626.3	624.7	621.6	618.6	615.5	612.4
42.5°	637.1	635.5	634.0	632.4	630.9	629.3	626.3	623.2	620.1	615.5	610.8
45°	615.5	615.5	617.0	617.0	618.6	618.6	618.6	617.0	617.0	615.5	609.3
47.5°	575.4	575.4	580.0	580.0	583.1	586.2	586.2	589.2	593.9	597.0	598.5
50°	529.1	529.1	533.7	535.3	538.3	543.0	547.6	549.1	553.8	559.9	566.1
52.5°	482.8	482.8	487.4	487.4	490.5	495.1	499.8	501.3	507.5	513.7	521.4
55°	439.6	439.6	442.7	444.2	445.8	448.9	453.5	453.5	459.7	464.3	472.0
57.5°	401.1	404.1	404.1	404.1	405.7	408.8	411.9	411.9	416.5	421.1	427.3
60°	364.0	367.1	367.1	367.1	368.7	370.2	373.3	373.3	376.4	379.5	385.6
62.5°	330.1	333.2	333.2	334.7	334.7	336.3	339.4	337.8	340.9	342.4	347.1
65°	286.9	290.0	291.5	293.1	294.6	297.7	302.3	300.8	305.4	308.5	313.1
67.5°	245.3	248.3	248.3	249.9	251.4	254.5	257.6	257.6	262.2	265.3	271.5
70°	206.7	209.8	209.8	211.3	212.9	216.0	219.0	217.5	222.1	225.2	229.8
72.5°	171.2	174.3	174.3	175.8	175.8	178.9	182.0	185.1	185.1	188.2	191.3
75°	138.8	140.4	141.9	141.9	143.5	145.0	148.1	151.2	152.7	154.3	157.3
77.5°	109.5	111.1	112.6	112.6	114.1	115.7	117.2	123.4	126.5	128.0	128.0
80°	83.3	84.8	84.8	84.8	86.4	87.9	91.0	91.0	97.2	97.2	98.7
82.5°	58.6	60.2	60.2	60.2	61.7	64.8	66.3	67.9	71.0	72.5	72.5
85°	35.5	37.0	37.0	37.0	38.6	40.1	43.2	44.7	46.3	46.3	47.8
87.5°	13.9	15.4	17.0	17.0	18.5	20.1	21.6	23.1	24.7	24.7	26.2
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°	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8
2.5°	3467.6	3478.4	3467.6	3473.8	3481.5	3467.6	3435.2	3422.9	3418.2	3399.7	3387.4
5°	3660.4	3660.4	3655.8	3668.1	3666.6	3645.0	3611.0	3595.6	3580.2	3560.1	3544.7
7.5°	3523.1	3535.5	3543.2	3591.0	3621.8	3624.9	3646.5	3651.1	3657.3	3651.1	3641.9
10°	3325.7	3321.0	3342.6	3387.4	3413.6	3427.5	3469.1	3489.2	3506.2	3540.1	3575.6
12.5°	3214.6	3220.8	3230.0	3262.4	3287.1	3280.9	3297.9	3311.8	3331.8	3365.8	3416.7
15°	3140.6	3146.7	3156.0	3180.7	3196.1	3188.4	3197.6	3206.9	3220.8	3237.8	3268.6
17.5°	3060.4	3071.2	3082.0	3108.2	3122.1	3120.5	3128.2	3131.3	3135.9	3146.7	3168.3
20°	2935.4	2969.4	2990.9	3026.4	3046.5	3043.4	3057.3	3061.9	3068.1	3078.9	3088.1
22.5°	2821.3	2830.5	2841.3	2879.9	2913.8	2955.5	2964.7	2977.1	2992.5	3003.3	3012.5
25°	2756.5	2750.3	2754.9	2781.2	2799.7	2802.8	2816.6	2856.8	2898.4	2916.9	2938.5
27.5°	2717.9	2711.8	2710.2	2722.6	2725.6	2717.9	2714.8	2727.2	2758.0	2788.9	2853.7
30°	2676.3	2668.6	2662.4	2673.2	2677.8	2667.0	2647.0	2636.2	2654.7	2662.4	2688.6
32.5°	2626.9	2619.2	2616.1	2622.3	2625.4	2616.1	2594.5	2582.2	2579.1	2572.9	2579.1
35°	2571.4	2563.7	2559.0	2560.6	2566.8	2559.0	2540.5	2525.1	2517.4	2500.4	2488.1
37.5°	1325.0	1877.2	2437.2	2495.8	2502.0	2500.4	2481.9	2464.9	2457.2	2437.2	2431.0
40°	606.2	677.2	1016.5	1328.1	1915.8	2434.1	2417.1	2400.2	2386.3	2380.1	2357.0
42.5°	604.7	606.2	607.8	600.0	743.5	1266.4	1869.5	2333.8	2324.6	2309.2	2292.2
45°	604.7	597.0	603.1	593.9	597.0	595.4	742.0	1197.0	2130.2	2225.9	2218.1
47.5°	598.5	593.9	600.0	592.3	583.1	587.7	581.5	589.2	919.3	1559.5	2136.4
50°	570.7	573.8	584.6	583.1	575.4	581.5	570.7	580.0	572.3	627.8	1209.3
52.5°	529.1	535.3	546.1	555.3	558.4	566.1	563.0	566.1	559.9	561.5	563.0
55°	479.7	487.4	496.7	510.6	516.7	529.1	538.3	543.0	550.7	549.1	536.8
57.5°	433.4	441.2	448.9	462.8	476.6	482.8	499.8	509.0	529.1	524.5	521.4
60°	390.3	396.4	404.1	407.2	424.2	435.0	450.4	459.7	485.9	492.1	501.3
62.5°	351.7	354.8	361.0	365.6	376.4	387.2	394.9	410.3	424.2	444.2	458.1
65°	316.2	319.3	323.9	327.0	328.6	344.0	348.6	365.6	370.2	391.8	404.1
67.5°	276.1	282.3	288.5	291.5	294.6	303.9	307.0	314.7	325.5	334.7	350.2
70°	234.5	239.1	245.3	249.9	256.1	262.2	271.5	276.1	283.8	290.0	302.3
72.5°	195.9	200.5	203.6	208.2	212.9	217.5	225.2	236.0	242.2	253.0	256.1
75°	158.9	163.5	166.6	169.7	174.3	177.4	180.5	191.3	197.4	206.7	216.0
77.5°	131.1	131.1	134.2	143.5	141.9	141.9	145.0	151.2	155.8	162.0	171.2
80°	101.8	103.3	104.9	112.6	114.1	115.7	114.1	118.8	123.4	124.9	131.1
82.5°	75.6	77.1	77.1	81.8	86.4	86.4	86.4	87.9	92.6	94.1	97.2
85°	50.9	52.4	54.0	55.5	58.6	60.2	61.7	61.7	64.8	66.3	67.9
87.5°	27.8	30.9	32.4	33.9	35.5	37.0	38.6	40.1	41.6	43.2	44.7
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):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8
2.5°	3382.8	3375.0	3370.4	3358.1	3355.0	3334.9	3338.0	3334.9	3334.9	3339.6	3355.0
5°	3527.7	3490.7	3481.5	3455.2	3433.7	3396.6	3373.5	3361.2	3342.6	3334.9	3345.7
7.5°	3626.5	3598.7	3575.6	3552.4	3521.6	3478.4	3446.0	3409.0	3378.1	3348.8	3341.1
10°	3609.5	3640.4	3640.4	3626.5	3597.2	3554.0	3515.4	3469.1	3415.1	3368.9	3341.1
12.5°	3466.0	3520.0	3563.2	3595.6	3624.9	3595.6	3557.1	3520.0	3459.9	3392.0	3341.1
15°	3308.7	3364.2	3418.2	3486.1	3557.1	3586.4	3584.8	3541.6	3487.6	3416.7	3345.7
17.5°	3197.6	3236.2	3265.5	3339.6	3425.9	3501.5	3552.4	3555.5	3503.1	3439.8	3347.3
20°	3114.4	3142.1	3166.8	3208.4	3284.0	3376.6	3470.7	3523.1	3513.9	3444.5	3351.9
22.5°	3038.8	3058.8	3078.9	3109.7	3169.9	3230.0	3339.6	3447.5	3493.8	3436.7	3347.3
25°	2963.2	2984.8	3000.2	3021.8	3069.6	3119.0	3196.1	3330.3	3433.7	3430.6	3338.0
27.5°	2873.7	2903.0	2921.5	2950.8	2983.2	3020.3	3072.7	3199.2	3347.3	3399.7	3313.3
30°	2765.7	2808.9	2836.7	2869.1	2896.9	2929.2	2970.9	3048.0	3231.6	3339.6	3287.1
32.5°	2609.9	2687.1	2748.8	2779.6	2810.5	2838.2	2875.3	2940.0	3089.7	3257.8	3257.8
35°	2498.9	2534.4	2589.9	2679.4	2717.9	2745.7	2779.6	2830.5	2926.2	3160.6	3210.0
37.5°	2412.5	2426.4	2454.2	2542.1	2614.6	2659.3	2693.2	2725.6	2819.7	3028.0	3148.3
40°	2347.7	2343.1	2340.0	2381.7	2485.0	2556.0	2594.5	2626.9	2699.4	2869.1	3066.5
42.5°	2272.1	2267.5	2252.1	2262.9	2313.8	2432.6	2491.2	2526.7	2586.8	2702.5	2977.1
45°	2193.5	2185.8	2179.6	2168.8	2187.3	2253.6	2373.9	2426.4	2460.3	2563.7	2864.5
47.5°	2113.3	2102.5	2094.7	2085.5	2074.7	2105.5	2219.7	2313.8	2372.4	2437.2	2728.7
50°	1999.1	2013.0	2003.7	1992.9	1983.7	1977.5	2025.3	2179.6	2252.1	2304.5	2563.7
52.5°	942.5	1832.5	1909.6	1898.8	1886.5	1875.7	1886.5	2003.7	2134.9	2176.5	2364.7
55°	536.8	816.0	1698.3	1795.5	1784.7	1769.3	1760.0	1800.1	1996.0	2051.6	2182.7
57.5°	516.7	518.3	749.7	1618.1	1678.3	1664.4	1653.6	1662.8	1829.4	1923.5	2023.8
60°	499.8	499.8	499.8	715.7	1547.1	1551.8	1537.9	1522.5	1595.0	1780.1	1863.4
62.5°	462.8	472.0	476.6	476.6	706.5	1433.0	1419.1	1414.5	1417.6	1607.3	1702.9
65°	414.9	436.5	445.8	452.0	452.0	742.0	1297.3	1289.5	1278.8	1351.2	1541.0
67.5°	362.5	384.1	404.1	416.5	418.0	431.9	774.3	1161.5	1146.1	1147.6	1368.2
70°	308.5	327.0	348.6	367.1	384.1	391.8	404.1	964.1	1015.0	993.4	1172.3
72.5°	266.9	274.6	290.0	308.5	328.6	347.1	357.9	384.1	880.8	857.6	891.6
75°	222.1	228.3	239.1	251.4	266.9	288.5	307.0	325.5	467.4	718.8	714.2
77.5°	172.8	183.6	195.9	203.6	211.3	226.8	251.4	269.9	288.5	485.9	572.3
80°	132.7	140.4	146.5	154.3	163.5	174.3	183.6	205.2	226.8	243.7	438.1
82.5°	98.7	103.3	108.0	111.1	114.1	120.3	137.3	145.0	158.9	174.3	206.7
85°	69.4	72.5	75.6	77.1	78.7	80.2	86.4	87.9	101.8	104.9	124.9
87.5°	44.7	46.3	49.4	50.9	50.9	52.4	54.0	54.0	54.0	50.9	61.7
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: P1213536

CATALOG NUMBER: 4SNLED-LD5-80HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	3365.8	3365.8
2.5°	3367.3	3392.0
5°	3362.7	3395.1
7.5°	3350.4	3381.2
10°	3331.8	3368.9
12.5°	3311.8	3347.3
15°	3294.8	3321.0
17.5°	3276.3	3291.7
20°	3251.6	3264.0
22.5°	3227.0	3220.8
25°	3199.2	3185.3
27.5°	3163.7	3137.5
30°	3131.3	3085.0
32.5°	3100.5	3024.9
35°	3058.8	2963.2
37.5°	3015.6	2899.9
40°	2964.7	2827.4
42.5°	2910.7	2754.9
45°	2842.9	2685.5
47.5°	2782.7	2602.2
50°	2699.4	2512.8
52.5°	2597.6	2429.5
55°	2477.3	2327.7
57.5°	2347.7	2221.2
60°	2208.9	2099.4
62.5°	2040.8	1972.9
65°	1843.3	1827.9
67.5°	1585.7	1667.5
70°	1300.3	1483.9
72.5°	1087.5	1289.5
75°	891.6	1072.1
77.5°	706.5	840.7
80°	441.2	615.5
82.5°	296.2	404.1
85°	178.9	192.8
87.5°	69.4	71.0
90°	0.0	0.0

(END OF REPORT)