

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: P1213880

Luminaire Tested: 4SNLED-LD5-76SL-RW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213880
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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

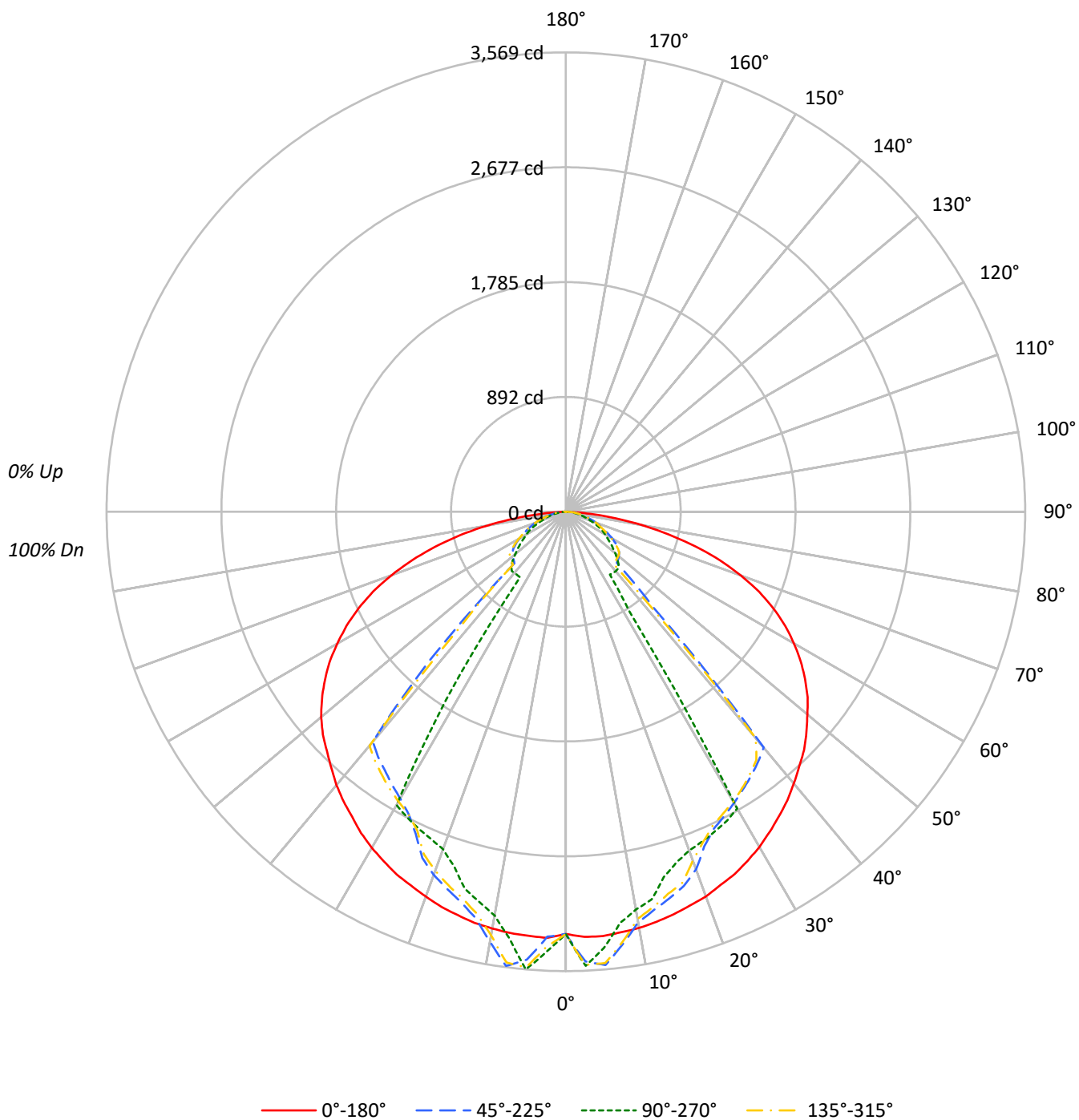
Lumens per Lamp: N/A
Luminaire Lumens: 6569.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	26509	26509	26509	26509
5°	26769	26709	26757	28031
10°	26795	24148	26832	24518
15°	26854	22342	26917	23050
20°	27050	21191	27050	21111
25°	27283	20786	27323	20591
30°	27560	20419	27628	20177
35°	27880	4650	27938	4850
40°	28327	4837	28497	4993
45°	29006	4809	29106	4985
50°	29683	4348	30084	4466
55°	30596	3860	30841	3916
60°	31371	3431	31440	3475
65°	31925	2994	31844	2946
70°	31470	2414	31370	2326
75°	29217	1857	29427	1779
80°	23715	1319	24663	1208
85°	12837	790	13554	606

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 32144 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.8	4.9
10°-20°	887.4	13.5
20°-30°	1314.4	20.0
30°-40°	1324.4	20.2
40°-50°	1034.5	15.7
50°-60°	799.1	12.2
60°-70°	536.5	8.2
70°-80°	273.7	4.2
80°-90°	76.1	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°	2524.6	38.4
0°-40°	3849.0	58.6
0°-60°	5682.6	86.5
0°-90°	6569.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6569.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3280	3280	3280	3280	3280	
5°	3309	3401	3308	3569	3309	315
15°	3237	2939	3244	3032	3237	915
25°	3104	2739	3109	2714	3104	1432
35°	2888	595	2894	621	2888	1810
45°	2617	579	2626	600	2617	2018
55°	2269	421	2287	427	2269	2026
65°	1782	283	1777	278	1782	1752
75°	1045	143	1052	137	1045	1093
85°	188	45	198	35	188	259
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°	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4
2.5°	3305.9	3318.0	3327.0	3333.0	3336.0	3336.0	3337.5	3339.0	3358.6	3367.6	3373.6
5°	3309.0	3321.0	3339.0	3363.1	3384.1	3402.2	3417.2	3438.2	3459.3	3481.8	3489.4
7.5°	3295.4	3310.5	3346.5	3390.1	3430.7	3459.3	3478.8	3492.4	3502.9	3504.4	3511.9
10°	3283.4	3310.5	3360.1	3417.2	3468.3	3502.9	3502.9	3495.4	3505.9	3465.3	3424.7
12.5°	3262.3	3292.4	3360.1	3435.2	3483.3	3496.9	3490.9	3460.8	3399.2	3349.5	3327.0
15°	3236.8	3277.4	3361.6	3445.8	3486.4	3490.9	3433.7	3357.1	3310.5	3280.4	3242.8
17.5°	3208.2	3262.3	3363.1	3447.3	3462.3	3441.3	3333.0	3284.9	3236.8	3166.1	3115.0
20°	3181.2	3233.8	3351.0	3426.2	3435.2	3340.5	3256.3	3205.2	3124.0	3062.4	3039.8
22.5°	3139.1	3200.7	3340.5	3397.7	3363.1	3253.3	3172.1	3091.0	3017.3	2999.3	2972.2
25°	3104.5	3169.1	3316.5	3363.1	3271.4	3173.6	3078.9	2984.2	2949.6	2924.1	2900.0
27.5°	3057.9	3137.6	3284.9	3299.9	3173.6	3088.0	2949.6	2907.5	2876.0	2847.4	2836.9
30°	3006.8	3104.5	3241.3	3212.7	3092.5	2966.2	2864.0	2824.9	2802.3	2772.2	2760.2
32.5°	2948.1	3054.9	3193.2	3112.0	3005.3	2847.4	2781.3	2751.2	2721.1	2698.6	2623.4
35°	2888.0	3011.3	3136.1	3015.8	2900.0	2757.2	2698.6	2671.5	2643.0	2560.3	2482.1
37.5°	2826.4	2963.2	3066.9	2912.1	2760.2	2664.0	2614.4	2584.3	2519.7	2414.4	2375.4
40°	2755.7	2904.5	2978.2	2805.3	2638.4	2569.3	2522.7	2492.6	2346.8	2300.2	2288.2
42.5°	2685.0	2847.4	2870.0	2701.6	2537.7	2468.6	2429.5	2330.2	2231.0	2207.0	2211.5
45°	2617.4	2785.8	2751.2	2554.3	2432.5	2375.4	2309.2	2172.4	2119.8	2131.8	2134.8
47.5°	2536.2	2712.1	2626.4	2406.9	2324.2	2267.1	2119.8	2037.1	2029.6	2046.1	2055.1
50°	2449.0	2629.4	2494.1	2273.1	2207.0	2139.3	1972.4	1930.3	1939.4	1955.9	1966.4
52.5°	2367.8	2536.2	2357.3	2148.3	2091.2	1936.4	1823.6	1831.1	1846.2	1865.7	1871.7
55°	2268.6	2423.5	2211.5	2022.1	1967.9	1765.0	1713.9	1731.9	1746.9	1763.5	1775.5
57.5°	2164.9	2294.2	2038.6	1880.7	1793.5	1613.1	1617.6	1629.7	1640.2	1659.7	685.5
60°	2046.1	2146.8	1849.2	1749.9	1577.1	1492.9	1497.4	1518.4	1528.9	853.9	472.1
62.5°	1922.8	1975.5	1677.8	1601.1	1378.6	1372.6	1393.6	1402.7	954.7	451.0	442.0
65°	1781.5	1771.0	1509.4	1387.6	1243.3	1249.3	1271.9	1226.8	422.5	422.5	419.4
67.5°	1625.2	1562.0	1345.5	1148.6	1112.5	1126.0	1150.1	401.4	390.9	393.9	383.4
70°	1446.3	1357.6	1175.6	972.7	984.7	998.2	387.9	363.8	359.3	351.8	330.7
72.5°	1256.8	1135.1	962.2	844.9	852.4	535.2	339.8	327.7	312.7	297.7	275.1
75°	1044.9	887.0	706.6	706.6	717.1	305.2	296.2	276.6	260.1	240.5	227.0
77.5°	819.3	682.5	548.7	569.8	278.1	255.6	239.0	218.0	204.5	192.4	184.9
80°	599.9	476.6	413.4	369.8	216.5	193.9	177.4	165.4	159.4	151.8	142.8
82.5°	393.9	287.1	287.1	174.4	151.8	133.8	129.3	120.3	114.3	109.7	105.2
85°	187.9	166.9	126.3	106.7	94.7	85.7	82.7	78.2	78.2	76.7	75.2
87.5°	69.2	75.2	55.6	54.1	51.1	49.6	51.1	51.1	52.6	51.1	49.6
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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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4
2.5°	3388.6	3400.7	3409.7	3424.7	3444.3	3460.8	3475.8	3496.9	3530.0	3539.0	3546.5
5°	3489.4	3493.9	3504.4	3516.4	3519.4	3526.9	3525.4	3534.5	3539.0	3549.5	3526.9
7.5°	3495.4	3471.3	3442.8	3417.2	3399.2	3382.6	3372.1	3388.6	3397.7	3405.2	3382.6
10°	3369.1	3340.5	3324.0	3309.0	3290.9	3265.4	3230.8	3238.3	3235.3	3235.3	3227.8
12.5°	3289.4	3248.8	3206.7	3169.1	3152.6	3151.1	3152.6	3169.1	3169.1	3167.6	3158.6
15°	3164.6	3125.5	3104.5	3095.5	3095.5	3091.0	3091.0	3109.0	3104.5	3104.5	3100.0
17.5°	3081.9	3054.9	3039.8	3029.3	3024.8	3032.3	3041.4	3048.9	3050.4	3044.4	3020.3
20°	3014.3	2988.7	2970.7	2973.7	2972.2	2976.7	2981.2	2955.7	2924.1	2882.0	2862.4
22.5°	2943.6	2924.1	2910.6	2910.6	2892.5	2864.0	2821.9	2812.8	2808.3	2788.8	2772.2
25°	2876.0	2853.4	2833.9	2773.7	2736.2	2740.7	2733.2	2718.1	2716.6	2715.1	2721.1
27.5°	2808.3	2749.7	2674.5	2665.5	2650.5	2649.0	2658.0	2665.5	2665.5	2671.5	2679.0
30°	2668.5	2600.9	2587.3	2570.8	2576.8	2597.9	2602.4	2612.9	2615.9	2626.4	2632.4
32.5°	2540.7	2510.7	2498.6	2506.1	2525.7	2543.7	2554.3	2558.8	2566.3	2575.3	2582.8
35°	2437.0	2428.0	2438.5	2455.0	2474.6	2489.6	2498.6	2507.6	2515.2	2522.7	2528.7
37.5°	2360.3	2366.3	2381.4	2402.4	2422.0	2434.0	2441.5	2452.0	2462.5	2471.6	2435.5
40°	2288.2	2303.2	2319.7	2342.3	2358.8	2370.8	2378.4	2391.9	2301.7	1041.8	571.3
42.5°	2225.0	2241.5	2253.6	2271.6	2289.7	2298.7	2232.5	996.7	563.8	560.8	568.3
45°	2148.3	2161.9	2181.4	2194.9	2211.5	1452.3	554.7	560.8	551.7	557.8	560.8
47.5°	2070.2	2091.2	2101.7	2005.5	596.8	551.7	545.7	551.7	545.7	553.2	548.7
50°	1981.5	2007.0	1428.2	539.7	535.2	532.2	538.2	535.2	539.7	545.7	533.7
52.5°	1891.3	1171.1	523.2	520.2	523.2	520.2	530.7	523.2	524.7	518.7	503.6
55°	640.4	506.6	502.1	500.6	509.6	509.6	509.6	497.6	490.1	475.1	464.5
57.5°	490.1	490.1	488.6	490.1	487.1	484.1	470.6	460.0	449.5	428.5	422.5
60°	464.5	464.5	464.5	464.5	451.0	445.0	424.0	414.9	396.9	386.4	380.4
62.5°	443.5	440.5	427.0	422.5	407.4	390.9	378.9	369.8	351.8	345.8	341.3
65°	413.4	402.9	386.4	368.3	360.8	342.8	336.8	323.2	314.2	309.7	306.7
67.5°	363.8	348.8	335.3	323.2	309.7	303.7	296.2	285.6	279.6	276.6	273.6
70°	311.2	300.7	287.1	279.6	270.6	266.1	255.6	252.6	248.1	243.5	239.0
72.5°	260.1	254.1	248.1	237.5	234.5	231.5	221.0	215.0	209.0	203.0	200.0
75°	218.0	213.5	210.5	201.5	196.9	187.9	180.4	175.9	171.4	166.9	163.9
77.5°	178.9	175.9	166.9	160.9	157.9	150.3	147.3	148.8	145.8	139.8	136.8
80°	139.8	136.8	129.3	129.3	126.3	123.3	120.3	117.3	114.3	109.7	106.7
82.5°	106.7	103.7	100.7	97.7	94.7	93.2	91.7	88.7	85.7	82.7	81.2
85°	75.2	73.7	72.2	70.7	69.2	67.7	66.1	63.1	60.1	58.6	57.1
87.5°	51.1	49.6	48.1	46.6	45.1	43.6	42.1	40.6	37.6	36.1	34.6
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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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4
2.5°	3546.5	3554.0	3546.5	3530.0	3519.4	3514.9	3523.9	3523.9	3530.0	3537.5	3539.0
5°	3490.9	3472.8	3451.8	3430.7	3420.2	3414.2	3397.7	3400.7	3405.2	3408.2	3411.2
7.5°	3352.6	3328.5	3299.9	3272.9	3262.3	3253.3	3233.8	3233.8	3233.8	3235.3	3244.3
10°	3211.2	3200.7	3188.7	3170.6	3157.1	3152.6	3136.1	3140.6	3137.6	3142.1	3152.6
12.5°	3145.1	3133.1	3122.5	3104.5	3089.5	3083.4	3075.9	3080.4	3078.9	3086.5	3095.5
15°	3084.9	3078.9	3066.9	3053.4	3039.8	3027.8	3000.8	2991.7	2985.7	2978.2	2988.7
17.5°	2985.7	2943.6	2915.1	2894.0	2879.0	2868.5	2860.9	2860.9	2865.5	2870.0	2879.0
20°	2850.4	2838.4	2824.9	2802.3	2787.3	2781.3	2776.8	2776.8	2784.3	2790.3	2806.8
22.5°	2757.2	2755.7	2751.2	2740.7	2733.2	2733.2	2734.7	2737.7	2748.2	2757.2	2773.7
25°	2713.6	2719.6	2716.6	2710.6	2706.1	2707.6	2704.6	2707.6	2718.1	2727.1	2740.7
27.5°	2679.0	2688.1	2685.0	2676.0	2668.5	2671.5	2676.0	2673.0	2682.0	2692.6	2703.1
30°	2632.4	2633.9	2639.9	2629.4	2626.4	2630.9	2632.4	2635.4	2644.5	2652.0	2661.0
32.5°	2579.8	2591.8	2590.3	2579.8	2579.8	2584.3	2585.8	2485.1	2297.2	1978.5	1891.3
35°	2528.7	2542.2	2519.7	2124.3	1470.3	784.8	605.9	584.8	589.3	592.3	595.3
37.5°	1870.2	887.0	565.3	569.8	574.3	578.8	583.3	587.8	592.3	596.8	598.3
40°	562.3	560.8	565.3	571.3	575.8	578.8	584.8	589.3	593.8	598.3	599.9
42.5°	556.3	559.3	563.8	569.8	575.8	581.8	586.3	592.3	595.3	598.3	599.9
45°	553.2	559.3	565.3	569.8	574.3	577.3	580.3	581.8	580.3	580.3	583.3
47.5°	548.7	554.7	556.3	554.7	556.3	554.7	554.7	554.7	550.2	548.7	548.7
50°	532.2	532.2	529.2	523.2	521.7	520.2	517.2	515.7	509.6	508.1	508.1
52.5°	497.6	496.1	491.6	484.1	481.1	478.1	476.6	475.1	469.1	466.0	467.6
55°	457.0	454.0	449.5	440.5	439.0	436.0	434.5	433.0	427.0	430.0	425.5
57.5°	419.4	413.4	407.4	405.9	399.9	398.4	396.9	395.4	390.9	392.4	389.4
60°	374.3	372.8	369.8	363.8	363.8	362.3	362.3	359.3	356.3	354.8	354.8
62.5°	341.3	336.8	333.8	333.8	329.2	329.2	329.2	326.2	323.2	324.7	323.2
65°	305.2	303.7	302.2	299.2	299.2	297.7	297.7	294.7	290.2	291.7	288.7
67.5°	275.1	272.1	269.1	267.6	261.6	258.6	257.1	255.6	249.6	251.1	248.1
70°	237.5	233.0	230.0	227.0	222.5	219.5	219.5	216.5	212.0	213.5	210.5
72.5°	198.4	195.4	192.4	190.9	186.4	184.9	183.4	181.9	177.4	178.9	177.4
75°	165.4	165.4	163.9	162.4	157.9	153.3	150.3	148.8	145.8	147.3	144.3
77.5°	136.8	133.8	130.8	130.8	126.3	123.3	120.3	120.3	120.3	118.8	117.3
80°	106.7	103.7	103.7	102.2	99.2	96.2	94.7	94.7	93.2	93.2	91.7
82.5°	81.2	78.2	76.7	76.7	73.7	72.2	70.7	69.2	69.2	69.2	67.7
85°	57.1	54.1	52.6	52.6	49.6	48.1	48.1	46.6	46.6	45.1	45.1
87.5°	34.6	33.1	31.6	31.6	28.6	27.1	27.1	27.1	25.6	25.6	24.1
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: P1213880

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4
2.5°	3539.0	3539.0	3528.4	3531.5	3526.9	3533.0	3525.4	3525.4	3534.5	3534.5	3540.5
5°	3412.7	3405.2	3403.7	3400.7	3385.6	3391.6	3384.1	3376.6	3387.1	3387.1	3400.7
7.5°	3239.8	3226.3	3232.3	3223.3	3214.2	3200.7	3205.2	3199.2	3206.7	3217.2	3230.8
10°	3151.1	3139.1	3146.6	3137.6	3142.1	3122.5	3124.0	3125.5	3133.1	3136.1	3148.1
12.5°	3094.0	3091.0	3088.0	3084.9	3088.0	3077.4	3071.4	3072.9	3075.9	3077.4	3086.5
15°	2973.7	2954.2	2960.2	2939.1	2940.6	2942.1	2930.1	2942.1	2940.6	2960.2	2978.2
17.5°	2876.0	2876.0	2865.5	2856.4	2850.4	2848.9	2839.9	2845.9	2839.9	2851.9	2856.4
20°	2808.3	2806.8	2805.3	2800.8	2785.8	2787.3	2791.8	2778.3	2776.8	2775.3	2784.3
22.5°	2776.8	2778.3	2772.2	2772.2	2758.7	2761.7	2763.2	2748.2	2749.7	2745.2	2749.7
25°	2743.7	2746.7	2739.2	2739.2	2736.2	2734.7	2727.1	2730.2	2721.1	2713.6	2721.1
27.5°	2704.6	2710.6	2704.6	2707.6	2701.6	2698.6	2694.1	2691.1	2682.0	2680.5	2685.0
30°	2668.5	2671.5	2670.0	2662.5	2661.0	2652.0	2656.5	2647.5	2638.4	2639.9	2643.0
32.5°	1368.1	1306.4	1007.3	909.5	900.5	933.6	1106.5	1347.0	1745.4	2131.8	2409.9
35°	596.8	596.8	596.8	595.3	595.3	593.8	592.3	590.8	589.3	587.8	586.3
37.5°	599.9	599.9	599.9	599.9	598.3	596.8	596.8	593.8	592.3	590.8	589.3
40°	601.4	602.9	602.9	602.9	601.4	601.4	599.9	596.8	595.3	592.3	589.3
42.5°	599.9	601.4	601.4	599.9	599.9	598.3	598.3	596.8	595.3	593.8	592.3
45°	580.3	581.8	578.8	578.8	577.3	577.3	577.3	577.3	577.3	578.8	578.8
47.5°	545.7	545.7	544.2	542.7	542.7	541.2	542.7	541.2	544.2	545.7	548.7
50°	505.1	505.1	502.1	500.6	500.6	500.6	500.6	502.1	503.6	506.6	509.6
52.5°	463.0	463.0	461.5	460.0	458.5	458.5	463.0	461.5	463.0	464.5	469.1
55°	422.5	424.0	420.9	420.9	419.4	419.4	419.4	420.9	422.5	424.0	428.5
57.5°	387.9	387.9	384.9	384.9	384.9	383.4	387.9	384.9	386.4	387.9	390.9
60°	353.3	351.8	351.8	350.3	350.3	350.3	353.3	351.8	351.8	353.3	356.3
62.5°	321.7	321.7	320.2	320.2	318.7	318.7	321.7	320.2	320.2	321.7	323.2
65°	285.6	285.6	284.1	282.6	287.1	282.6	287.1	284.1	287.1	288.7	291.7
67.5°	245.1	245.1	245.1	243.5	243.5	246.6	248.1	245.1	246.6	249.6	251.1
70°	209.0	209.0	207.5	207.5	207.5	210.5	212.0	209.0	210.5	212.0	215.0
72.5°	177.4	174.4	174.4	172.9	175.9	175.9	177.4	175.9	177.4	177.4	180.4
75°	145.8	142.8	142.8	142.8	145.8	144.3	145.8	144.3	145.8	145.8	147.3
77.5°	117.3	115.8	114.3	114.3	117.3	117.3	117.3	115.8	117.3	118.8	120.3
80°	91.7	90.2	88.7	88.7	91.7	91.7	91.7	93.2	91.7	93.2	94.7
82.5°	67.7	66.1	64.6	67.7	67.7	67.7	67.7	69.2	67.7	69.2	70.7
85°	45.1	43.6	42.1	45.1	45.1	45.1	45.1	46.6	45.1	46.6	48.1
87.5°	24.1	22.6	22.6	24.1	24.1	24.1	25.6	25.6	25.6	27.1	27.1
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: P1213880

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4
2.5°	3549.5	3554.0	3552.5	3543.5	3534.5	3523.9	3516.4	3517.9	3533.0	3537.5	3523.9
5°	3400.7	3429.2	3429.2	3448.8	3438.2	3429.2	3435.2	3468.3	3484.9	3510.4	3519.4
7.5°	3247.3	3260.8	3259.3	3278.9	3275.9	3275.9	3280.4	3324.0	3345.0	3366.1	3372.1
10°	3161.6	3175.2	3173.6	3175.2	3170.6	3160.1	3160.1	3179.7	3197.7	3208.2	3211.2
12.5°	3100.0	3107.5	3106.0	3106.0	3103.0	3094.0	3092.5	3109.0	3128.5	3142.1	3143.6
15°	3008.3	3029.3	3033.8	3053.4	3048.9	3036.8	3039.8	3053.4	3065.4	3077.4	3072.9
17.5°	2871.5	2882.0	2883.5	2891.0	2888.0	2888.0	2906.0	2955.7	2988.7	3017.3	3020.3
20°	2793.3	2800.8	2797.8	2814.3	2806.8	2805.3	2809.8	2830.9	2845.9	2859.4	2883.5
22.5°	2755.7	2761.7	2757.2	2758.7	2745.2	2733.2	2730.2	2746.7	2763.2	2781.3	2781.3
25°	2724.1	2728.6	2727.1	2724.1	2713.6	2697.1	2694.1	2697.1	2703.1	2704.6	2694.1
27.5°	2686.6	2689.6	2689.6	2691.1	2677.5	2662.5	2659.5	2656.5	2662.5	2661.0	2644.5
30°	2647.5	2643.0	2644.5	2646.0	2633.9	2620.4	2614.4	2612.9	2618.9	2617.4	2600.9
32.5°	2554.3	2588.8	2591.8	2594.8	2584.3	2572.3	2566.3	2561.8	2564.8	2563.3	2548.2
35°	584.8	595.3	729.1	1650.7	2241.5	2482.1	2507.6	2501.6	2503.1	2503.1	2491.1
37.5°	586.3	584.8	583.3	578.8	574.3	571.3	987.7	2106.2	2440.0	2441.5	2431.0
40°	586.3	584.8	583.3	580.3	574.3	569.8	562.3	556.3	569.8	1253.8	2294.2
42.5°	589.3	586.3	583.3	580.3	574.3	568.3	562.3	554.7	559.3	556.3	548.7
45°	580.3	578.8	578.8	577.3	574.3	568.3	560.8	551.7	547.2	551.7	544.2
47.5°	551.7	553.2	557.8	559.3	559.3	560.8	556.3	550.2	542.7	547.2	538.2
50°	512.7	515.7	517.2	524.7	527.7	533.7	535.2	535.2	533.7	539.7	533.7
52.5°	470.6	473.6	481.1	484.1	487.1	496.1	499.1	503.6	506.6	515.7	521.7
55°	430.0	431.5	434.5	440.5	445.0	452.5	457.0	461.5	469.1	473.6	491.6
57.5°	392.4	393.9	399.9	401.4	404.4	410.4	414.9	420.9	427.0	430.0	451.0
60°	356.3	357.8	362.3	363.8	365.3	371.3	375.8	380.4	384.9	387.9	402.9
62.5°	324.7	324.7	329.2	329.2	330.7	335.3	338.3	341.3	345.8	347.3	354.8
65°	293.2	294.7	297.7	297.7	299.2	302.2	303.7	305.2	309.7	309.7	315.7
67.5°	254.1	255.6	260.1	263.1	264.6	270.6	272.1	273.6	276.6	278.1	281.1
70°	216.5	218.0	222.5	224.0	225.5	230.0	233.0	237.5	242.0	246.6	249.6
72.5°	181.9	183.4	187.9	187.9	192.4	193.9	196.9	198.4	203.0	206.0	210.5
75°	148.8	150.3	154.8	154.8	159.4	160.9	162.4	163.9	166.9	169.9	172.9
77.5°	121.8	121.8	127.8	130.8	133.8	133.8	135.3	135.3	135.3	136.8	139.8
80°	96.2	96.2	100.7	103.7	106.7	106.7	108.2	109.7	111.3	111.3	112.8
82.5°	72.2	72.2	76.7	78.2	81.2	81.2	81.2	82.7	84.2	82.7	85.7
85°	49.6	49.6	52.6	54.1	57.1	57.1	57.1	58.6	60.1	58.6	60.1
87.5°	28.6	30.1	31.6	33.1	34.6	36.1	36.1	36.1	37.6	37.6	39.1
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: P1213880

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4
2.5°	3508.9	3490.9	3489.4	3468.3	3462.3	3463.8	3447.3	3441.3	3414.2	3408.2	3379.6
5°	3522.4	3531.5	3526.9	3525.4	3530.0	3526.9	3514.9	3508.9	3504.4	3492.4	3468.3
7.5°	3373.6	3379.6	3384.1	3403.7	3420.2	3448.8	3478.8	3498.4	3513.4	3516.4	3496.9
10°	3221.8	3250.3	3269.9	3299.9	3324.0	3340.5	3358.6	3375.1	3418.7	3462.3	3487.9
12.5°	3143.6	3151.1	3149.6	3166.1	3182.7	3226.3	3268.4	3292.4	3325.5	3345.0	3391.6
15°	3077.4	3078.9	3083.4	3095.5	3104.5	3119.5	3139.1	3175.2	3241.3	3271.4	3296.9
17.5°	3017.3	3017.3	3020.3	3030.8	3042.9	3056.4	3068.4	3083.4	3116.5	3166.1	3229.3
20°	2921.1	2963.2	2967.7	2966.2	2972.2	2997.8	3000.8	3027.8	3044.4	3063.9	3125.5
22.5°	2778.3	2803.8	2839.9	2895.5	2916.6	2928.6	2937.6	2949.6	2975.2	2997.8	3023.3
25°	2700.1	2716.6	2727.1	2743.7	2787.3	2857.9	2871.5	2885.0	2901.5	2918.1	2949.6
27.5°	2630.9	2629.4	2636.9	2652.0	2664.0	2701.6	2767.7	2820.4	2823.4	2847.4	2874.5
30°	2581.3	2572.3	2561.8	2558.8	2575.3	2594.8	2614.4	2697.1	2754.2	2766.2	2794.8
32.5°	2534.7	2519.7	2504.6	2492.6	2482.1	2498.6	2510.7	2546.7	2620.4	2689.6	2704.6
35°	2477.6	2462.5	2444.5	2431.0	2414.4	2412.9	2411.4	2446.0	2470.1	2552.8	2624.9
37.5°	2418.9	2402.4	2387.4	2372.3	2355.8	2343.8	2336.3	2345.3	2367.8	2403.9	2524.2
40°	2357.3	2337.8	2322.7	2310.7	2288.2	2279.1	2264.1	2258.1	2259.6	2291.2	2354.3
42.5°	1408.7	2246.1	2253.6	2240.0	2220.5	2208.5	2191.9	2184.4	2169.4	2184.4	2220.5
45°	542.7	548.7	1643.2	2170.9	2146.8	2131.8	2116.8	2109.3	2092.7	2080.7	2113.8
47.5°	532.2	538.2	526.2	745.7	2049.1	2053.6	2035.6	2028.1	2011.5	2002.5	1993.5
50°	524.7	529.2	520.2	523.2	512.7	1877.7	1952.9	1943.9	1925.8	1915.3	1897.3
52.5°	517.2	517.2	511.2	503.6	500.6	502.1	1580.1	1858.2	1837.1	1826.6	1802.6
55°	493.1	496.1	502.1	490.1	487.1	485.6	481.1	1504.9	1739.4	1727.4	1706.3
57.5°	457.0	463.0	479.6	476.6	476.6	464.5	461.5	461.5	1396.6	1626.7	1605.6
60°	414.9	420.9	439.0	445.0	449.5	446.5	443.5	442.0	436.0	1471.8	1498.9
62.5°	371.3	377.4	383.4	402.9	408.9	416.4	425.5	420.9	414.9	414.9	1386.1
65°	324.7	333.8	336.8	354.8	362.3	375.8	383.4	393.9	390.9	389.4	396.9
67.5°	284.1	294.7	296.2	303.7	317.2	323.2	332.2	351.8	360.8	363.8	366.8
70°	249.6	255.6	260.1	263.1	272.1	273.6	290.2	303.7	317.2	332.2	336.8
72.5°	215.0	219.5	228.5	225.5	228.5	234.5	243.5	252.6	266.1	287.1	300.7
75°	175.9	178.9	184.9	187.9	193.9	198.4	204.5	212.0	224.0	234.5	252.6
77.5°	141.3	142.8	147.3	148.8	154.8	159.4	169.9	174.4	181.9	189.4	200.0
80°	114.3	114.3	115.8	115.8	120.3	124.8	132.3	136.8	145.8	151.8	151.8
82.5°	87.2	87.2	91.7	91.7	94.7	94.7	99.2	99.2	103.7	106.7	109.7
85°	61.6	63.1	66.1	64.6	67.7	66.1	69.2	72.2	73.7	72.2	70.7
87.5°	40.6	40.6	43.6	42.1	43.6	43.6	46.6	46.6	48.1	48.1	46.6
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: P1213880

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4
2.5°	3369.1	3346.5	3333.0	3316.5	3312.0	3307.5	3313.5	3313.5	3304.4	3296.9	3283.4
5°	3447.3	3423.2	3397.7	3370.6	3345.0	3318.0	3307.5	3305.9	3289.4	3280.4	3275.9
7.5°	3487.9	3475.8	3447.3	3409.7	3370.6	3322.5	3301.4	3289.4	3272.9	3269.9	3269.9
10°	3492.4	3478.8	3463.8	3436.7	3391.6	3328.5	3287.9	3263.9	3248.8	3259.3	3278.9
12.5°	3448.8	3474.3	3460.8	3442.8	3406.7	3330.0	3271.4	3235.3	3230.8	3257.8	3309.0
15°	3337.5	3412.7	3450.3	3432.2	3403.7	3327.0	3244.3	3202.2	3202.2	3257.8	3324.0
17.5°	3253.3	3312.0	3403.7	3418.7	3385.6	3321.0	3218.8	3169.1	3182.7	3263.9	3334.5
20°	3184.2	3220.3	3309.0	3393.1	3361.6	3307.5	3181.2	3130.1	3157.1	3254.8	3349.5
22.5°	3075.9	3148.1	3202.2	3327.0	3337.5	3281.9	3143.6	3081.9	3136.1	3254.8	3342.0
25°	2970.7	3057.9	3115.0	3236.8	3301.4	3250.3	3109.0	3030.8	3113.5	3250.3	3336.0
27.5°	2897.0	2937.6	3041.4	3128.5	3247.3	3208.2	3062.4	2975.2	3084.9	3226.3	3301.4
30°	2818.8	2845.9	2948.1	3030.8	3175.2	3160.1	3014.3	2913.6	3048.9	3203.7	3211.2
32.5°	2733.2	2763.2	2815.8	2936.1	3074.4	3115.0	2960.2	2851.9	3009.8	3169.1	3106.0
35°	2646.0	2668.5	2710.6	2839.9	2957.2	3047.4	2894.0	2781.3	2982.7	3116.5	3005.3
37.5°	2558.8	2582.8	2618.9	2727.1	2833.9	2984.2	2836.9	2710.6	2933.1	3023.3	2900.0
40°	2476.1	2489.6	2527.2	2594.8	2731.7	2919.6	2772.2	2636.9	2882.0	2904.5	2757.2
42.5°	2324.2	2391.9	2426.5	2480.6	2615.9	2830.9	2697.1	2558.8	2824.9	2785.8	2614.4
45°	2160.4	2307.7	2322.7	2376.9	2513.7	2736.2	2626.4	2482.1	2770.7	2683.5	2479.1
47.5°	2026.6	2133.3	2220.5	2265.6	2391.9	2624.9	2560.3	2417.4	2689.6	2554.3	2346.8
50°	1907.8	1964.9	2122.8	2155.9	2246.1	2491.1	2482.1	2342.3	2576.8	2391.9	2217.5
52.5°	1792.0	1832.6	1975.5	2046.1	2119.8	2346.8	2388.9	2268.6	2453.5	2229.5	2086.7
55°	1691.3	1704.8	1783.0	1931.9	1998.0	2201.0	2286.7	2182.9	2297.2	2074.7	1960.4
57.5°	1587.6	1575.5	1632.7	1823.6	1871.7	2052.1	2178.4	2095.7	2170.9	1916.8	1829.6
60°	1479.3	1462.8	1486.8	1613.1	1737.9	1904.8	2050.6	1999.5	2017.5	1760.5	1683.8
62.5°	1366.6	1350.0	1342.5	1422.2	1607.1	1752.9	1921.3	1892.8	1829.6	1617.6	1503.4
65°	1249.3	1232.8	1220.7	1252.3	1462.8	1556.0	1777.0	1769.5	1623.7	1467.3	1265.9
67.5°	380.4	1121.5	1096.0	1094.5	1232.8	1377.1	1620.7	1608.6	1416.2	1306.4	1090.0
70°	342.8	909.5	966.7	953.1	1013.3	1195.2	1441.7	1432.7	1214.7	1047.9	963.7
72.5°	314.2	321.7	853.9	838.9	852.4	1016.3	1255.3	1231.3	1029.8	826.9	832.9
75°	269.1	282.6	294.7	708.1	690.1	841.9	1052.4	1014.8	849.4	682.5	696.1
77.5°	219.5	236.0	245.1	515.7	557.8	599.9	840.4	790.8	584.8	545.7	260.1
80°	163.9	177.4	192.4	206.0	424.0	419.4	623.9	574.3	407.4	339.8	203.0
82.5°	120.3	124.8	133.8	148.8	168.4	281.1	401.4	353.3	282.6	154.8	139.8
85°	75.2	81.2	85.7	90.2	102.2	168.4	198.4	157.9	118.8	94.7	88.7
87.5°	48.1	48.1	46.6	48.1	49.6	60.1	67.7	64.6	51.1	48.1	48.1
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: P1213880

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4
2.5°	3268.4	3247.3	3247.3	3241.3	3245.8	3245.8	3244.3	3245.8	3256.3	3262.3	3272.9
5°	3266.9	3260.8	3274.4	3290.9	3310.5	3334.5	3340.5	3361.6	3381.1	3406.7	3433.7
7.5°	3286.4	3307.5	3333.0	3360.1	3399.2	3427.7	3453.3	3478.8	3496.9	3520.9	3536.0
10°	3315.0	3357.1	3400.7	3435.2	3477.3	3501.4	3517.9	3520.9	3495.4	3454.8	3421.7
12.5°	3355.6	3405.2	3445.8	3478.8	3498.4	3489.4	3441.3	3391.6	3363.1	3321.0	3262.3
15°	3390.1	3435.2	3477.3	3463.8	3411.2	3361.6	3324.0	3265.4	3208.2	3169.1	3143.6
17.5°	3405.2	3448.8	3433.7	3363.1	3313.5	3256.3	3179.7	3134.6	3097.0	3066.9	3051.9
20°	3414.2	3406.7	3325.5	3274.4	3178.2	3125.5	3075.9	3033.8	3005.3	2990.2	2987.2
22.5°	3390.1	3298.4	3229.3	3137.6	3066.9	3023.3	2984.2	2949.6	2930.1	2918.1	2910.6
25°	3310.5	3203.7	3101.5	3029.3	2969.2	2931.6	2901.5	2873.0	2848.9	2842.9	2827.9
27.5°	3199.2	3112.0	2976.7	2921.1	2868.5	2850.4	2817.3	2788.8	2767.7	2749.7	2701.6
30°	3107.5	2969.2	2871.5	2820.4	2788.8	2767.7	2730.2	2700.1	2664.0	2597.9	2570.8
32.5°	2994.7	2857.9	2764.7	2736.2	2697.1	2679.0	2636.9	2570.8	2515.2	2488.1	2486.6
35°	2848.9	2736.2	2668.5	2643.0	2611.4	2581.3	2494.1	2434.0	2406.9	2409.9	2432.5
37.5°	2727.1	2626.4	2582.8	2546.7	2510.7	2434.0	2360.3	2331.8	2339.3	2354.3	2364.8
40°	2603.9	2527.2	2477.6	2449.0	2367.8	2292.7	2253.6	2264.1	2277.6	2288.2	2301.7
42.5°	2483.6	2429.5	2379.9	2324.2	2213.0	2172.4	2181.4	2194.9	2207.0	2222.0	2235.5
45°	2369.3	2321.2	2264.1	2137.8	2082.2	2092.7	2106.2	2116.8	2134.8	2145.3	2158.9
47.5°	2261.1	2210.0	2109.3	1998.0	1992.0	2013.0	2025.1	2038.6	2052.1	2025.1	1117.0
50°	2139.3	2086.7	1933.4	1891.3	1904.8	1924.3	1939.4	1952.9	1739.4	691.6	532.2
52.5°	2019.0	1885.2	1787.5	1799.6	1813.1	1835.6	1846.2	1371.1	545.7	520.2	521.7
55°	1885.2	1713.9	1685.3	1700.3	1712.4	1734.9	1150.1	503.6	500.6	499.1	511.2
57.5°	1674.8	1571.0	1583.1	1598.1	1610.1	1136.6	490.1	487.1	488.6	490.1	491.6
60°	1486.8	1464.3	1477.8	1491.4	1055.4	473.6	464.5	466.0	472.1	467.6	455.5
62.5°	1338.0	1356.1	1369.6	1199.7	449.5	445.0	449.5	445.0	434.5	427.0	411.9
65°	1223.8	1241.8	1252.3	422.5	420.9	427.0	422.5	407.4	390.9	369.8	365.3
67.5°	1103.5	1121.5	401.4	390.9	396.9	389.4	371.3	353.3	341.3	323.2	315.7
70°	978.7	419.4	363.8	362.3	351.8	339.8	320.2	302.2	287.1	279.6	272.1
72.5°	706.6	332.2	327.7	315.7	297.7	281.1	264.6	254.1	246.6	242.0	237.5
75°	294.7	288.7	275.1	254.1	236.0	228.5	216.5	209.0	206.0	196.9	193.9
77.5°	246.6	234.5	215.0	200.0	189.4	184.9	175.9	166.9	162.4	160.9	154.8
80°	189.4	172.9	163.9	156.4	153.3	142.8	132.3	127.8	124.8	123.3	118.8
82.5°	129.3	123.3	117.3	106.7	106.7	102.2	97.7	94.7	91.7	91.7	88.7
85°	84.2	79.7	78.2	73.7	73.7	70.7	69.2	67.7	66.1	64.6	63.1
87.5°	48.1	48.1	49.6	48.1	48.1	46.6	45.1	43.6	42.1	42.1	39.1
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: P1213880

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4
2.5°	3286.4	3301.4	3304.4	3355.6	3384.1	3382.6	3373.6	3400.7	3384.1	3375.1	3384.1
5°	3460.8	3478.8	3493.9	3549.5	3569.0	3578.1	3576.6	3591.6	3579.6	3569.0	3569.0
7.5°	3546.5	3552.5	3558.5	3545.0	3536.0	3520.9	3498.4	3465.3	3448.8	3430.7	3408.2
10°	3405.2	3385.6	3393.1	3366.1	3343.5	3327.0	3305.9	3278.9	3256.3	3239.8	3214.2
12.5°	3232.3	3230.8	3233.8	3238.3	3215.7	3202.2	3185.7	3166.1	3149.6	3131.6	3110.5
15°	3127.0	3128.5	3140.6	3136.1	3128.5	3121.0	3103.0	3097.0	3081.9	3062.4	3050.4
17.5°	3051.9	3059.4	3071.4	3065.4	3053.4	3045.9	3032.3	3018.8	3005.3	2990.2	2972.2
20°	2985.7	2993.2	3000.8	2993.2	2970.7	2960.2	2942.1	2900.0	2870.0	2839.9	2812.8
22.5°	2913.6	2918.1	2912.1	2888.0	2830.9	2803.8	2782.8	2770.7	2745.2	2728.6	2712.1
25°	2823.4	2797.8	2758.7	2731.7	2709.1	2697.1	2688.1	2686.6	2683.5	2680.5	2673.0
27.5°	2676.0	2667.0	2646.0	2635.4	2636.9	2641.5	2643.0	2647.5	2643.0	2636.9	2630.9
30°	2566.3	2570.8	2572.3	2575.3	2582.8	2587.3	2588.8	2594.8	2591.8	2587.3	2584.3
32.5°	2497.1	2507.6	2513.7	2522.7	2527.2	2534.7	2534.7	2543.7	2534.7	2533.2	2530.2
35°	2440.0	2449.0	2452.0	2465.6	2470.1	2477.6	2477.6	2485.1	2477.6	2400.9	1895.8
37.5°	2382.9	2391.9	2397.9	2409.9	2411.4	2415.9	2229.5	1631.2	1052.4	814.8	622.4
40°	2315.2	2325.7	2331.8	2336.3	1641.7	1041.8	717.1	583.3	583.3	587.8	592.3
42.5°	2243.1	2250.6	1568.0	912.6	568.3	566.8	571.3	575.8	580.3	586.3	592.3
45°	1763.5	890.0	565.3	551.7	556.3	562.3	568.3	574.3	581.8	587.8	590.8
47.5°	578.8	542.7	550.2	544.2	551.7	559.3	565.3	571.3	572.8	574.3	572.8
50°	535.2	535.2	539.7	539.7	545.7	548.7	548.7	548.7	542.7	541.2	536.7
52.5°	517.2	529.2	523.2	526.2	523.2	518.7	514.2	509.6	500.6	497.6	491.6
55°	508.1	512.7	497.6	493.1	487.1	475.1	469.1	463.0	455.5	452.5	445.0
57.5°	487.1	476.6	460.0	452.5	442.0	430.0	424.0	419.4	411.9	408.9	404.4
60°	448.0	427.0	416.4	407.4	395.4	384.9	380.4	377.4	371.3	369.8	365.3
62.5°	399.9	381.9	372.8	360.8	351.8	345.8	341.3	339.8	333.8	333.8	330.7
65°	347.3	338.3	330.7	318.7	314.2	308.2	306.7	305.2	302.2	300.7	297.7
67.5°	305.2	299.2	288.7	282.6	279.6	275.1	272.1	269.1	263.1	260.1	255.6
70°	267.6	263.1	252.6	248.1	242.0	234.5	230.0	227.0	222.5	219.5	215.0
72.5°	231.5	218.0	210.5	206.0	201.5	193.9	192.4	189.4	184.9	183.4	178.9
75°	186.4	175.9	171.4	168.4	163.9	159.4	159.4	159.4	154.8	153.3	151.8
77.5°	148.8	142.8	139.8	136.8	135.3	132.3	127.8	126.3	121.8	121.8	120.3
80°	114.3	111.3	108.2	106.7	105.2	102.2	99.2	97.7	93.2	93.2	91.7
82.5°	84.2	82.7	81.2	79.7	78.2	76.7	72.2	70.7	67.7	67.7	66.1
85°	60.1	58.6	55.6	54.1	54.1	52.6	48.1	46.6	43.6	43.6	43.6
87.5°	37.6	36.1	34.6	33.1	31.6	30.1	27.1	25.6	25.6	22.6	21.0
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: P1213880

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4
2.5°	3366.1	3391.6	3388.6	3406.7	3411.2	3420.2	3423.2	3424.7	3402.2	3420.2	3421.7
5°	3564.5	3569.0	3572.0	3579.6	3587.1	3588.6	3581.1	3572.0	3575.1	3569.0	3554.0
7.5°	3405.2	3382.6	3378.1	3372.1	3369.1	3366.1	3352.6	3364.6	3351.0	3345.0	3324.0
10°	3209.7	3188.7	3187.2	3187.2	3191.7	3190.2	3187.2	3181.2	3193.2	3185.7	3181.2
12.5°	3107.5	3100.0	3104.5	3101.5	3113.5	3116.5	3113.5	3113.5	3110.5	3104.5	3107.5
15°	3045.9	3039.8	3044.4	3039.8	3048.9	3050.4	3042.9	3047.4	3039.8	3032.3	3029.3
17.5°	2964.7	2951.1	2940.6	2925.6	2927.1	2924.1	2915.1	2915.1	2907.5	2888.0	2889.5
20°	2808.3	2794.8	2788.8	2788.8	2796.3	2799.3	2797.8	2800.8	2793.3	2790.3	2778.3
22.5°	2710.6	2709.1	2712.1	2719.6	2731.7	2748.2	2749.7	2749.7	2749.7	2748.2	2733.2
25°	2676.0	2676.0	2679.0	2689.6	2698.6	2710.6	2713.6	2716.6	2713.6	2713.6	2700.1
27.5°	2636.9	2633.9	2639.9	2650.5	2661.0	2670.0	2677.5	2679.0	2674.5	2674.5	2679.0
30°	2588.8	2587.3	2594.8	2605.4	2614.4	2623.4	2630.9	2636.9	2630.9	2630.9	2626.4
32.5°	2539.2	2539.2	2542.2	2479.1	2298.7	2070.2	2074.7	1942.4	1850.7	1734.9	1888.3
35°	1584.6	1153.1	990.7	838.9	732.1	663.0	661.5	638.9	628.4	620.9	619.4
37.5°	598.3	601.4	607.4	610.4	614.9	617.9	619.4	619.4	619.4	619.4	617.9
40°	596.8	602.9	607.4	611.9	616.4	619.4	619.4	620.9	622.4	622.4	622.4
42.5°	598.3	604.4	610.4	614.9	617.9	619.4	620.9	622.4	622.4	622.4	622.4
45°	596.8	599.9	599.9	601.4	601.4	601.4	602.9	602.9	601.4	599.9	602.9
47.5°	574.3	574.3	569.8	568.3	566.8	563.8	565.3	563.8	562.3	560.8	563.8
50°	535.2	529.2	526.2	523.2	521.7	518.7	520.2	518.7	517.2	514.2	518.7
52.5°	488.6	487.1	481.1	478.1	476.6	478.1	475.1	473.6	472.1	470.6	472.1
55°	443.5	437.5	436.0	433.0	431.5	433.0	431.5	430.0	428.5	427.0	428.5
57.5°	402.9	398.4	396.9	393.9	393.9	393.9	393.9	392.4	390.9	389.4	390.9
60°	363.8	360.8	359.3	359.3	357.8	357.8	357.8	356.3	354.8	354.8	356.3
62.5°	330.7	330.7	326.2	324.7	324.7	326.2	324.7	323.2	321.7	320.2	323.2
65°	296.2	290.2	288.7	285.6	282.6	284.1	282.6	281.1	279.6	278.1	281.1
67.5°	254.1	252.6	246.6	243.5	242.0	243.5	242.0	240.5	239.0	237.5	240.5
70°	213.5	213.5	207.5	206.0	204.5	204.5	203.0	203.0	201.5	200.0	203.0
72.5°	177.4	177.4	175.9	172.9	171.4	169.9	168.4	166.9	166.9	168.4	168.4
75°	147.3	144.3	138.3	139.8	138.3	136.8	136.8	135.3	133.8	136.8	135.3
77.5°	115.8	114.3	109.7	111.3	109.7	108.2	108.2	106.7	105.2	106.7	106.7
80°	87.2	87.2	85.7	84.2	84.2	82.7	81.2	81.2	79.7	81.2	81.2
82.5°	63.1	63.1	61.6	60.1	58.6	58.6	57.1	57.1	57.1	57.1	57.1
85°	40.6	39.1	39.1	36.1	36.1	36.1	34.6	34.6	34.6	34.6	34.6
87.5°	19.5	19.5	18.0	18.0	16.5	15.0	15.0	13.5	13.5	15.0	15.0
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: P1213880

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4
2.5°	3394.6	3414.2	3397.7	3405.2	3406.7	3432.2	3430.7	3436.7	3426.2	3414.2	3397.7
5°	3567.5	3558.5	3546.5	3575.1	3560.0	3578.1	3584.1	3596.1	3596.1	3594.6	3581.1
7.5°	3346.5	3327.0	3342.0	3352.6	3357.1	3345.0	3369.1	3396.2	3418.7	3432.2	3433.7
10°	3173.6	3179.7	3178.2	3182.7	3193.2	3191.7	3206.7	3221.8	3227.8	3236.8	3239.8
12.5°	3092.5	3091.0	3094.0	3104.5	3110.5	3109.0	3124.0	3133.1	3136.1	3137.6	3136.1
15°	3027.8	3017.3	3024.8	3026.3	3030.8	3030.8	3048.9	3062.4	3068.4	3071.4	3068.4
17.5°	2906.0	2880.5	2904.5	2904.5	2921.1	2918.1	2946.6	2969.2	2981.2	2990.2	2990.2
20°	2785.8	2773.7	2782.8	2779.8	2791.8	2790.3	2808.3	2823.4	2833.9	2841.4	2850.4
22.5°	2737.7	2740.7	2727.1	2728.6	2728.6	2727.1	2736.2	2743.7	2746.7	2751.2	2748.2
25°	2706.1	2709.1	2704.6	2697.1	2694.1	2697.1	2701.6	2710.6	2712.1	2709.1	2698.6
27.5°	2674.5	2665.5	2673.0	2659.5	2656.5	2662.5	2668.5	2670.0	2671.5	2671.5	2662.5
30°	2626.4	2618.9	2626.4	2620.4	2614.4	2620.4	2624.9	2624.9	2627.9	2629.4	2618.9
32.5°	1835.6	1850.7	2094.2	2241.5	2449.0	2554.3	2573.8	2573.8	2576.8	2576.8	2567.8
35°	625.4	626.9	678.0	735.2	856.9	1007.3	1204.2	1306.4	1652.2	2065.7	2465.6
37.5°	617.9	616.4	614.9	613.4	611.9	610.4	607.4	605.9	614.9	729.1	989.2
40°	620.9	619.4	616.4	614.9	613.4	610.4	608.9	605.9	602.9	599.9	596.8
42.5°	620.9	619.4	617.9	616.4	614.9	613.4	610.4	607.4	604.4	599.9	595.3
45°	599.9	599.9	601.4	601.4	602.9	602.9	602.9	601.4	601.4	599.9	593.8
47.5°	560.8	560.8	565.3	565.3	568.3	571.3	571.3	574.3	578.8	581.8	583.3
50°	515.7	515.7	520.2	521.7	524.7	529.2	533.7	535.2	539.7	545.7	551.7
52.5°	470.6	470.6	475.1	475.1	478.1	482.6	487.1	488.6	494.6	500.6	508.1
55°	428.5	428.5	431.5	433.0	434.5	437.5	442.0	442.0	448.0	452.5	460.0
57.5°	390.9	393.9	393.9	393.9	395.4	398.4	401.4	401.4	405.9	410.4	416.4
60°	354.8	357.8	357.8	357.8	359.3	360.8	363.8	363.8	366.8	369.8	375.8
62.5°	321.7	324.7	324.7	326.2	326.2	327.7	330.7	329.2	332.2	333.8	338.3
65°	279.6	282.6	284.1	285.6	287.1	290.2	294.7	293.2	297.7	300.7	305.2
67.5°	239.0	242.0	242.0	243.5	245.1	248.1	251.1	251.1	255.6	258.6	264.6
70°	201.5	204.5	204.5	206.0	207.5	210.5	213.5	212.0	216.5	219.5	224.0
72.5°	166.9	169.9	169.9	171.4	171.4	174.4	177.4	180.4	180.4	183.4	186.4
75°	135.3	136.8	138.3	138.3	139.8	141.3	144.3	147.3	148.8	150.3	153.3
77.5°	106.7	108.2	109.7	109.7	111.3	112.8	114.3	120.3	123.3	124.8	124.8
80°	81.2	82.7	82.7	82.7	84.2	85.7	88.7	88.7	94.7	94.7	96.2
82.5°	57.1	58.6	58.6	58.6	60.1	63.1	64.6	66.1	69.2	70.7	70.7
85°	34.6	36.1	36.1	36.1	37.6	39.1	42.1	43.6	45.1	45.1	46.6
87.5°	13.5	15.0	16.5	16.5	18.0	19.5	21.0	22.6	24.1	24.1	25.6
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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CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4
2.5°	3379.6	3390.1	3379.6	3385.6	3393.1	3379.6	3348.0	3336.0	3331.5	3313.5	3301.4
5°	3567.5	3567.5	3563.0	3575.1	3573.5	3552.5	3519.4	3504.4	3489.4	3469.8	3454.8
7.5°	3433.7	3445.8	3453.3	3499.9	3530.0	3533.0	3554.0	3558.5	3564.5	3558.5	3549.5
10°	3241.3	3236.8	3257.8	3301.4	3327.0	3340.5	3381.1	3400.7	3417.2	3450.3	3484.9
12.5°	3133.1	3139.1	3148.1	3179.7	3203.7	3197.7	3214.2	3227.8	3247.3	3280.4	3330.0
15°	3060.9	3066.9	3075.9	3100.0	3115.0	3107.5	3116.5	3125.5	3139.1	3155.6	3185.7
17.5°	2982.7	2993.2	3003.8	3029.3	3042.9	3041.4	3048.9	3051.9	3056.4	3066.9	3088.0
20°	2860.9	2894.0	2915.1	2949.6	2969.2	2966.2	2979.7	2984.2	2990.2	3000.8	3009.8
22.5°	2749.7	2758.7	2769.2	2806.8	2839.9	2880.5	2889.5	2901.5	2916.6	2927.1	2936.1
25°	2686.6	2680.5	2685.0	2710.6	2728.6	2731.7	2745.2	2784.3	2824.9	2842.9	2864.0
27.5°	2649.0	2643.0	2641.5	2653.5	2656.5	2649.0	2646.0	2658.0	2688.1	2718.1	2781.3
30°	2608.4	2600.9	2594.8	2605.4	2609.9	2599.4	2579.8	2569.3	2587.3	2594.8	2620.4
32.5°	2560.3	2552.8	2549.7	2555.8	2558.8	2549.7	2528.7	2516.7	2513.7	2507.6	2513.7
35°	2506.1	2498.6	2494.1	2495.6	2501.6	2494.1	2476.1	2461.0	2453.5	2437.0	2425.0
37.5°	1291.4	1829.6	2375.4	2432.5	2438.5	2437.0	2418.9	2402.4	2394.9	2375.4	2369.3
40°	590.8	660.0	990.7	1294.4	1867.2	2372.3	2355.8	2339.3	2325.7	2319.7	2297.2
42.5°	589.3	590.8	592.3	584.8	724.6	1234.3	1822.1	2274.6	2265.6	2250.6	2234.0
45°	589.3	581.8	587.8	578.8	581.8	580.3	723.1	1166.6	2076.2	2169.4	2161.9
47.5°	583.3	578.8	584.8	577.3	568.3	572.8	566.8	574.3	896.0	1519.9	2082.2
50°	556.3	559.3	569.8	568.3	560.8	566.8	556.3	565.3	557.8	611.9	1178.7
52.5°	515.7	521.7	532.2	541.2	544.2	551.7	548.7	551.7	545.7	547.2	548.7
55°	467.6	475.1	484.1	497.6	503.6	515.7	524.7	529.2	536.7	535.2	523.2
57.5°	422.5	430.0	437.5	451.0	464.5	470.6	487.1	496.1	515.7	511.2	508.1
60°	380.4	386.4	393.9	396.9	413.4	424.0	439.0	448.0	473.6	479.6	488.6
62.5°	342.8	345.8	351.8	356.3	366.8	377.4	384.9	399.9	413.4	433.0	446.5
65°	308.2	311.2	315.7	318.7	320.2	335.3	339.8	356.3	360.8	381.9	393.9
67.5°	269.1	275.1	281.1	284.1	287.1	296.2	299.2	306.7	317.2	326.2	341.3
70°	228.5	233.0	239.0	243.5	249.6	255.6	264.6	269.1	276.6	282.6	294.7
72.5°	190.9	195.4	198.4	203.0	207.5	212.0	219.5	230.0	236.0	246.6	249.6
75°	154.8	159.4	162.4	165.4	169.9	172.9	175.9	186.4	192.4	201.5	210.5
77.5°	127.8	127.8	130.8	139.8	138.3	138.3	141.3	147.3	151.8	157.9	166.9
80°	99.2	100.7	102.2	109.7	111.3	112.8	111.3	115.8	120.3	121.8	127.8
82.5°	73.7	75.2	75.2	79.7	84.2	84.2	84.2	85.7	90.2	91.7	94.7
85°	49.6	51.1	52.6	54.1	57.1	58.6	60.1	60.1	63.1	64.6	66.1
87.5°	27.1	30.1	31.6	33.1	34.6	36.1	37.6	39.1	40.6	42.1	43.6
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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CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4	3280.4
2.5°	3296.9	3289.4	3284.9	3272.9	3269.9	3250.3	3253.3	3250.3	3250.3	3254.8	3269.9
5°	3438.2	3402.2	3393.1	3367.6	3346.5	3310.5	3287.9	3275.9	3257.8	3250.3	3260.8
7.5°	3534.5	3507.4	3484.9	3462.3	3432.2	3390.1	3358.6	3322.5	3292.4	3263.9	3256.3
10°	3517.9	3548.0	3548.0	3534.5	3505.9	3463.8	3426.2	3381.1	3328.5	3283.4	3256.3
12.5°	3378.1	3430.7	3472.8	3504.4	3533.0	3504.4	3466.8	3430.7	3372.1	3305.9	3256.3
15°	3224.8	3278.9	3331.5	3397.7	3466.8	3495.4	3493.9	3451.8	3399.2	3330.0	3260.8
17.5°	3116.5	3154.1	3182.7	3254.8	3339.0	3412.7	3462.3	3465.3	3414.2	3352.6	3262.3
20°	3035.3	3062.4	3086.5	3127.0	3200.7	3290.9	3382.6	3433.7	3424.7	3357.1	3266.9
22.5°	2961.7	2981.2	3000.8	3030.8	3089.5	3148.1	3254.8	3360.1	3405.2	3349.5	3262.3
25°	2888.0	2909.1	2924.1	2945.1	2991.7	3039.8	3115.0	3245.8	3346.5	3343.5	3253.3
27.5°	2800.8	2829.4	2847.4	2876.0	2907.5	2943.6	2994.7	3118.0	3262.3	3313.5	3229.3
30°	2695.6	2737.7	2764.7	2796.3	2823.4	2854.9	2895.5	2970.7	3149.6	3254.8	3203.7
32.5°	2543.7	2618.9	2679.0	2709.1	2739.2	2766.2	2802.3	2865.5	3011.3	3175.2	3175.2
35°	2435.5	2470.1	2524.2	2611.4	2649.0	2676.0	2709.1	2758.7	2851.9	3080.4	3128.5
37.5°	2351.3	2364.8	2391.9	2477.6	2548.2	2591.8	2624.9	2656.5	2748.2	2951.1	3068.4
40°	2288.2	2283.6	2280.6	2321.2	2422.0	2491.1	2528.7	2560.3	2630.9	2796.3	2988.7
42.5°	2214.5	2210.0	2194.9	2205.5	2255.1	2370.8	2428.0	2462.5	2521.2	2633.9	2901.5
45°	2137.8	2130.3	2124.3	2113.8	2131.8	2196.4	2313.7	2364.8	2397.9	2498.6	2791.8
47.5°	2059.6	2049.1	2041.6	2032.6	2022.1	2052.1	2163.4	2255.1	2312.2	2375.4	2659.5
50°	1948.4	1961.9	1952.9	1942.4	1933.4	1927.3	1973.9	2124.3	2194.9	2246.1	2498.6
52.5°	918.6	1786.0	1861.2	1850.7	1838.6	1828.1	1838.6	1952.9	2080.7	2121.3	2304.7
55°	523.2	795.3	1655.2	1749.9	1739.4	1724.4	1715.4	1754.5	1945.4	1999.5	2127.3
57.5°	503.6	505.1	730.6	1577.1	1635.7	1622.2	1611.6	1620.7	1783.0	1874.7	1972.4
60°	487.1	487.1	487.1	697.6	1507.9	1512.4	1498.9	1483.8	1554.5	1734.9	1816.1
62.5°	451.0	460.0	464.5	464.5	688.6	1396.6	1383.1	1378.6	1381.6	1566.5	1659.7
65°	404.4	425.5	434.5	440.5	440.5	723.1	1264.3	1256.8	1246.3	1317.0	1501.9
67.5°	353.3	374.3	393.9	405.9	407.4	420.9	754.7	1132.1	1117.0	1118.5	1333.5
70°	300.7	318.7	339.8	357.8	374.3	381.9	393.9	939.6	989.2	968.2	1142.6
72.5°	260.1	267.6	282.6	300.7	320.2	338.3	348.8	374.3	858.4	835.9	869.0
75°	216.5	222.5	233.0	245.1	260.1	281.1	299.2	317.2	455.5	700.6	696.1
77.5°	168.4	178.9	190.9	198.4	206.0	221.0	245.1	263.1	281.1	473.6	557.8
80°	129.3	136.8	142.8	150.3	159.4	169.9	178.9	200.0	221.0	237.5	427.0
82.5°	96.2	100.7	105.2	108.2	111.3	117.3	133.8	141.3	154.8	169.9	201.5
85°	67.7	70.7	73.7	75.2	76.7	78.2	84.2	85.7	99.2	102.2	121.8
87.5°	43.6	45.1	48.1	49.6	49.6	51.1	52.6	52.6	52.6	49.6	60.1
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: P1213880

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	3280.4	3280.4
2.5°	3281.9	3305.9
5°	3277.4	3309.0
7.5°	3265.4	3295.4
10°	3247.3	3283.4
12.5°	3227.8	3262.3
15°	3211.2	3236.8
17.5°	3193.2	3208.2
20°	3169.1	3181.2
22.5°	3145.1	3139.1
25°	3118.0	3104.5
27.5°	3083.4	3057.9
30°	3051.9	3006.8
32.5°	3021.8	2948.1
35°	2981.2	2888.0
37.5°	2939.1	2826.4
40°	2889.5	2755.7
42.5°	2836.9	2685.0
45°	2770.7	2617.4
47.5°	2712.1	2536.2
50°	2630.9	2449.0
52.5°	2531.7	2367.8
55°	2414.4	2268.6
57.5°	2288.2	2164.9
60°	2152.8	2046.1
62.5°	1989.0	1922.8
65°	1796.5	1781.5
67.5°	1545.5	1625.2
70°	1267.4	1446.3
72.5°	1059.9	1256.8
75°	869.0	1044.9
77.5°	688.6	819.3
80°	430.0	599.9
82.5°	288.7	393.9
85°	174.4	187.9
87.5°	67.7	69.2
90°	0.0	0.0

(END OF REPORT)