

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: P1214231

Luminaire Tested: 4SNLED-LD5-76SL-RW-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214231
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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

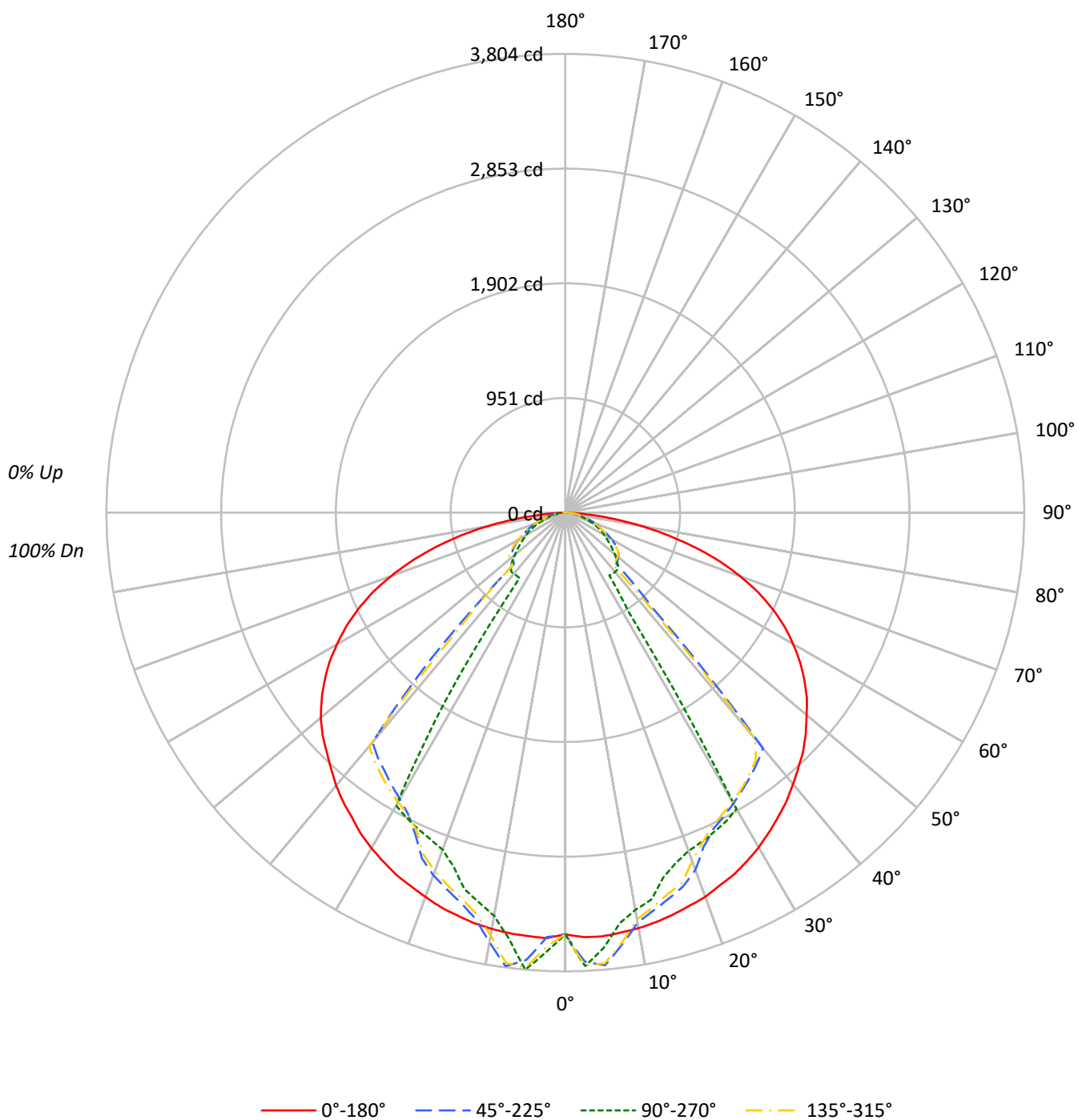
Lumens per Lamp: N/A
Luminaire Lumens: 7002.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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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CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L950-CD1-U

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°	28256	28256	28256	28256
5°	28533	28469	28520	29879
10°	28561	25739	28600	26134
15°	28624	23815	28691	24570
20°	28833	22587	28833	22503
25°	29082	22155	29124	21949
30°	29376	21765	29450	21506
35°	29718	4957	29780	5170
40°	30195	5155	30376	5322
45°	30918	5127	31024	5313
50°	31639	4635	32067	4760
55°	32613	4115	32873	4174
60°	33439	3657	33513	3704
65°	34029	3192	33943	3141
70°	33544	2572	33439	2479
75°	31141	1979	31365	1896
80°	25276	1406	26288	1287
85°	13684	843	14449	647

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 34264 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.0	4.9
10°-20°	945.9	13.5
20°-30°	1401.1	20.0
30°-40°	1411.7	20.2
40°-50°	1102.7	15.7
50°-60°	851.8	12.2
60°-70°	571.9	8.2
70°-80°	291.7	4.2
80°-90°	81.2	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2691.0	38.4
0°-40°	4102.7	58.6
0°-60°	6057.2	86.5
0°-90°	7002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7002.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3497	3497	3497	3497	3497	
5°	3527	3625	3526	3804	3527	335
15°	3450	3133	3458	3232	3450	976
25°	3309	2920	3314	2892	3309	1526
35°	3078	635	3085	662	3078	1929
45°	2790	617	2800	639	2790	2151
55°	2418	449	2437	455	2418	2160
65°	1899	301	1894	296	1899	1868
75°	1114	152	1122	146	1114	1165
85°	200	48	212	37	200	276
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°	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6
2.5°	3523.9	3536.7	3546.3	3552.7	3555.9	3555.9	3557.5	3559.1	3579.9	3589.6	3596.0
5°	3527.1	3539.9	3559.1	3584.8	3607.2	3626.4	3642.4	3664.9	3687.3	3711.4	3719.4
7.5°	3512.6	3528.7	3567.1	3613.6	3656.9	3687.3	3708.1	3722.6	3733.8	3735.4	3743.4
10°	3499.8	3528.7	3581.6	3642.4	3696.9	3733.8	3733.8	3725.8	3737.0	3693.7	3650.5
12.5°	3477.4	3509.4	3581.6	3661.7	3713.0	3727.4	3721.0	3688.9	3623.2	3570.3	3546.3
15°	3450.1	3493.4	3583.2	3672.9	3716.2	3721.0	3660.1	3578.3	3528.7	3496.6	3456.6
17.5°	3419.7	3477.4	3584.8	3674.5	3690.5	3668.1	3552.7	3501.4	3450.1	3374.8	3320.3
20°	3390.9	3446.9	3571.9	3652.1	3661.7	3560.7	3471.0	3416.5	3330.0	3264.3	3240.2
22.5°	3346.0	3411.7	3560.7	3621.6	3584.8	3467.8	3381.2	3294.7	3216.2	3197.0	3168.1
25°	3309.1	3378.0	3535.1	3584.8	3487.0	3382.8	3281.9	3180.9	3144.1	3116.8	3091.2
27.5°	3259.5	3344.4	3501.4	3517.5	3382.8	3291.5	3144.1	3099.2	3065.6	3035.1	3023.9
30°	3205.0	3309.1	3455.0	3424.5	3296.3	3161.7	3052.7	3011.1	2987.0	2955.0	2942.2
32.5°	3142.5	3256.2	3403.7	3317.1	3203.4	3035.1	2964.6	2932.5	2900.5	2876.5	2796.3
35°	3078.4	3209.8	3342.8	3214.6	3091.2	2939.0	2876.5	2847.6	2817.2	2729.0	2645.7
37.5°	3012.7	3158.5	3269.1	3104.0	2942.2	2839.6	2786.7	2754.7	2685.8	2573.6	2531.9
40°	2937.4	3096.0	3174.5	2990.2	2812.4	2738.6	2689.0	2656.9	2501.5	2451.8	2439.0
42.5°	2862.0	3035.1	3059.1	2879.7	2705.0	2631.3	2589.6	2483.8	2378.1	2352.4	2357.3
45°	2789.9	2969.4	2932.5	2722.6	2592.8	2531.9	2461.4	2315.6	2259.5	2272.3	2275.5
47.5°	2703.4	2890.9	2799.5	2565.6	2477.4	2416.5	2259.5	2171.4	2163.4	2181.0	2190.6
50°	2610.4	2802.7	2658.5	2423.0	2352.4	2280.3	2102.5	2057.6	2067.2	2084.8	2096.0
52.5°	2523.9	2703.4	2512.7	2289.9	2229.1	2064.0	1943.8	1951.8	1967.8	1988.7	1995.1
55°	2418.1	2583.2	2357.3	2155.3	2097.7	1881.3	1826.8	1846.1	1862.1	1879.7	1892.5
57.5°	2307.6	2445.4	2173.0	2004.7	1911.8	1719.5	1724.3	1737.1	1748.3	1769.1	730.7
60°	2181.0	2288.3	1971.1	1865.3	1681.0	1591.3	1596.1	1618.5	1629.7	910.2	503.2
62.5°	2049.6	2105.7	1788.4	1706.6	1469.5	1463.1	1485.5	1495.1	1017.6	480.7	471.1
65°	1898.9	1887.7	1608.9	1479.1	1325.3	1331.7	1355.7	1307.6	450.3	450.3	447.1
67.5°	1732.3	1665.0	1434.2	1224.3	1185.8	1200.3	1225.9	427.9	416.6	419.9	408.6
70°	1541.6	1447.0	1253.1	1036.8	1049.6	1064.0	413.4	387.8	383.0	375.0	352.5
72.5°	1339.7	1209.9	1025.6	900.6	908.6	570.5	362.2	349.3	333.3	317.3	293.3
75°	1113.7	945.5	753.2	753.2	764.4	325.3	315.7	294.9	277.2	256.4	242.0
77.5°	873.4	727.5	584.9	607.3	296.5	272.4	254.8	232.4	217.9	205.1	197.1
80°	639.4	508.0	440.7	394.2	230.8	206.7	189.1	176.3	169.9	161.9	152.2
82.5°	419.9	306.1	306.1	185.9	161.9	142.6	137.8	128.2	121.8	117.0	112.2
85°	200.3	177.9	134.6	113.8	101.0	91.3	88.1	83.3	83.3	81.7	80.1
87.5°	73.7	80.1	59.3	57.7	54.5	52.9	54.5	54.5	56.1	54.5	52.9
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°	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6
2.5°	3612.0	3624.8	3634.4	3650.5	3671.3	3688.9	3704.9	3727.4	3762.6	3772.2	3780.3
5°	3719.4	3724.2	3735.4	3748.2	3751.4	3759.4	3757.8	3767.4	3772.2	3783.5	3759.4
7.5°	3725.8	3700.1	3669.7	3642.4	3623.2	3605.6	3594.4	3612.0	3621.6	3629.6	3605.6
10°	3591.2	3560.7	3543.1	3527.1	3507.8	3480.6	3443.7	3451.7	3448.5	3448.5	3440.5
12.5°	3506.2	3463.0	3418.1	3378.0	3360.4	3358.8	3360.4	3378.0	3378.0	3376.4	3366.8
15°	3373.2	3331.6	3309.1	3299.5	3299.5	3294.7	3294.7	3313.9	3309.1	3309.1	3304.3
17.5°	3285.1	3256.2	3240.2	3229.0	3224.2	3232.2	3241.8	3249.8	3251.4	3245.0	3219.4
20°	3213.0	3185.7	3166.5	3169.7	3168.1	3172.9	3177.7	3150.5	3116.8	3072.0	3051.1
22.5°	3137.7	3116.8	3102.4	3102.4	3083.2	3052.7	3007.9	2998.2	2993.4	2972.6	2955.0
25°	3065.6	3041.5	3020.7	2956.6	2916.5	2921.3	2913.3	2897.3	2895.7	2894.1	2900.5
27.5°	2993.4	2930.9	2850.8	2841.2	2825.2	2823.6	2833.2	2841.2	2841.2	2847.6	2855.6
30°	2844.4	2772.3	2757.9	2740.2	2746.7	2769.1	2773.9	2785.1	2788.3	2799.5	2805.9
32.5°	2708.2	2676.1	2663.3	2671.3	2692.2	2711.4	2722.6	2727.4	2735.4	2745.1	2753.1
35°	2597.6	2588.0	2599.2	2616.9	2637.7	2653.7	2663.3	2672.9	2681.0	2689.0	2695.4
37.5°	2515.9	2522.3	2538.3	2560.8	2581.6	2594.4	2602.4	2613.7	2624.9	2634.5	2596.0
40°	2439.0	2455.0	2472.6	2496.7	2514.3	2527.1	2535.1	2549.6	2453.4	1110.5	608.9
42.5°	2371.7	2389.3	2402.1	2421.4	2440.6	2450.2	2379.7	1062.4	600.9	597.7	605.7
45°	2289.9	2304.4	2325.2	2339.6	2357.3	1548.0	591.3	597.7	588.1	594.5	597.7
47.5°	2206.6	2229.1	2240.3	2137.7	636.2	588.1	581.7	588.1	581.7	589.7	584.9
50°	2112.1	2139.3	1522.4	575.3	570.5	567.3	573.7	570.5	575.3	581.7	568.9
52.5°	2015.9	1248.3	557.7	554.5	557.7	554.5	565.7	557.7	559.3	552.9	536.8
55°	682.7	540.0	535.2	533.6	543.2	543.2	543.2	530.4	522.4	506.4	495.2
57.5°	522.4	522.4	520.8	522.4	519.2	516.0	501.6	490.4	479.1	456.7	450.3
60°	495.2	495.2	495.2	495.2	480.7	474.3	451.9	442.3	423.1	411.8	405.4
62.5°	472.7	469.5	455.1	450.3	434.3	416.6	403.8	394.2	375.0	368.6	363.8
65°	440.7	429.5	411.8	392.6	384.6	365.4	359.0	344.5	334.9	330.1	326.9
67.5°	387.8	371.8	357.4	344.5	330.1	323.7	315.7	304.5	298.1	294.9	291.7
70°	331.7	320.5	306.1	298.1	288.4	283.6	272.4	269.2	264.4	259.6	254.8
72.5°	277.2	270.8	264.4	253.2	250.0	246.8	235.6	229.2	222.7	216.3	213.1
75°	232.4	227.6	224.3	214.7	209.9	200.3	192.3	187.5	182.7	177.9	174.7
77.5°	190.7	187.5	177.9	171.5	168.3	160.2	157.0	158.6	155.4	149.0	145.8
80°	149.0	145.8	137.8	137.8	134.6	131.4	128.2	125.0	121.8	117.0	113.8
82.5°	113.8	110.6	107.4	104.2	101.0	99.4	97.8	94.5	91.3	88.1	86.5
85°	80.1	78.5	76.9	75.3	73.7	72.1	70.5	67.3	64.1	62.5	60.9
87.5°	54.5	52.9	51.3	49.7	48.1	46.5	44.9	43.3	40.1	38.5	36.9
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):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6
2.5°	3780.3	3788.3	3780.3	3762.6	3751.4	3746.6	3756.2	3756.2	3762.6	3770.6	3772.2
5°	3721.0	3701.7	3679.3	3656.9	3645.6	3639.2	3621.6	3624.8	3629.6	3632.8	3636.0
7.5°	3573.5	3547.9	3517.5	3488.6	3477.4	3467.8	3446.9	3446.9	3446.9	3448.5	3458.2
10°	3422.9	3411.7	3398.9	3379.6	3365.2	3360.4	3342.8	3347.6	3344.4	3349.2	3360.4
12.5°	3352.4	3339.6	3328.4	3309.1	3293.1	3286.7	3278.7	3283.5	3281.9	3289.9	3299.5
15°	3288.3	3281.9	3269.1	3254.6	3240.2	3227.4	3198.6	3188.9	3182.5	3174.5	3185.7
17.5°	3182.5	3137.7	3107.2	3084.8	3068.8	3057.5	3049.5	3049.5	3054.3	3059.1	3068.8
20°	3038.3	3025.5	3011.1	2987.0	2971.0	2964.6	2959.8	2959.8	2967.8	2974.2	2991.8
22.5°	2939.0	2937.4	2932.5	2921.3	2913.3	2913.3	2914.9	2918.1	2929.3	2939.0	2956.6
25°	2892.5	2898.9	2895.7	2889.3	2884.5	2886.1	2882.9	2886.1	2897.3	2906.9	2921.3
27.5°	2855.6	2865.2	2862.0	2852.4	2844.4	2847.6	2852.4	2849.2	2858.8	2870.0	2881.3
30°	2805.9	2807.6	2814.0	2802.7	2799.5	2804.3	2805.9	2809.2	2818.8	2826.8	2836.4
32.5°	2749.9	2762.7	2761.1	2749.9	2749.9	2754.7	2756.3	2648.9	2448.6	2108.9	2015.9
35°	2695.4	2709.8	2685.8	2264.3	1567.2	836.5	645.8	623.4	628.2	631.4	634.6
37.5°	1993.5	945.5	602.5	607.3	612.1	617.0	621.8	626.6	631.4	636.2	637.8
40°	599.3	597.7	602.5	608.9	613.8	617.0	623.4	628.2	633.0	637.8	639.4
42.5°	592.9	596.1	600.9	607.3	613.8	620.2	625.0	631.4	634.6	637.8	639.4
45°	589.7	596.1	602.5	607.3	612.1	615.4	618.6	620.2	618.6	618.6	621.8
47.5°	584.9	591.3	592.9	591.3	592.9	591.3	591.3	591.3	586.5	584.9	584.9
50°	567.3	567.3	564.1	557.7	556.1	554.5	551.3	549.7	543.2	541.6	541.6
52.5°	530.4	528.8	524.0	516.0	512.8	509.6	508.0	506.4	500.0	496.8	498.4
55°	487.2	483.9	479.1	469.5	467.9	464.7	463.1	461.5	455.1	458.3	453.5
57.5°	447.1	440.7	434.3	432.7	426.3	424.7	423.1	421.5	416.6	418.2	415.0
60°	399.0	397.4	394.2	387.8	387.8	386.2	386.2	383.0	379.8	378.2	378.2
62.5°	363.8	359.0	355.8	355.8	350.9	350.9	350.9	347.7	344.5	346.1	344.5
65°	325.3	323.7	322.1	318.9	318.9	317.3	317.3	314.1	309.3	310.9	307.7
67.5°	293.3	290.0	286.8	285.2	278.8	275.6	274.0	272.4	266.0	267.6	264.4
70°	253.2	248.4	245.2	242.0	237.2	234.0	234.0	230.8	226.0	227.6	224.3
72.5°	211.5	208.3	205.1	203.5	198.7	197.1	195.5	193.9	189.1	190.7	189.1
75°	176.3	176.3	174.7	173.1	168.3	163.5	160.2	158.6	155.4	157.0	153.8
77.5°	145.8	142.6	139.4	139.4	134.6	131.4	128.2	128.2	128.2	126.6	125.0
80°	113.8	110.6	110.6	109.0	105.8	102.6	101.0	101.0	99.4	99.4	97.8
82.5°	86.5	83.3	81.7	81.7	78.5	76.9	75.3	73.7	73.7	73.7	72.1
85°	60.9	57.7	56.1	56.1	52.9	51.3	51.3	49.7	49.7	48.1	48.1
87.5°	36.9	35.3	33.7	33.7	30.4	28.8	28.8	28.8	27.2	27.2	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

TEST NUMBER: P1214231

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6
2.5°	3772.2	3772.2	3761.0	3764.2	3759.4	3765.8	3757.8	3757.8	3767.4	3767.4	3773.8
5°	3637.6	3629.6	3628.0	3624.8	3608.8	3615.2	3607.2	3599.2	3610.4	3610.4	3624.8
7.5°	3453.4	3438.9	3445.3	3435.7	3426.1	3411.7	3416.5	3410.1	3418.1	3429.3	3443.7
10°	3358.8	3346.0	3354.0	3344.4	3349.2	3328.4	3330.0	3331.6	3339.6	3342.8	3355.6
12.5°	3297.9	3294.7	3291.5	3288.3	3291.5	3280.3	3273.9	3275.5	3278.7	3280.3	3289.9
15°	3169.7	3148.9	3155.3	3132.9	3134.5	3136.1	3123.2	3136.1	3134.5	3155.3	3174.5
17.5°	3065.6	3065.6	3054.3	3044.7	3038.3	3036.7	3027.1	3033.5	3027.1	3039.9	3044.7
20°	2993.4	2991.8	2990.2	2985.4	2969.4	2971.0	2975.8	2961.4	2959.8	2958.2	2967.8
22.5°	2959.8	2961.4	2955.0	2955.0	2940.6	2943.8	2945.4	2929.3	2930.9	2926.1	2930.9
25°	2924.5	2927.7	2919.7	2919.7	2916.5	2914.9	2906.9	2910.1	2900.5	2892.5	2900.5
27.5°	2882.9	2889.3	2882.9	2886.1	2879.7	2876.5	2871.7	2868.4	2858.8	2857.2	2862.0
30°	2844.4	2847.6	2846.0	2838.0	2836.4	2826.8	2831.6	2822.0	2812.4	2814.0	2817.2
32.5°	1458.3	1392.6	1073.7	969.5	959.9	995.1	1179.4	1435.8	1860.5	2272.3	2568.8
35°	636.2	636.2	636.2	634.6	634.6	633.0	631.4	629.8	628.2	626.6	625.0
37.5°	639.4	639.4	639.4	639.4	637.8	636.2	636.2	633.0	631.4	629.8	628.2
40°	641.0	642.6	642.6	642.6	641.0	641.0	639.4	636.2	634.6	631.4	628.2
42.5°	639.4	641.0	641.0	639.4	639.4	637.8	637.8	636.2	634.6	633.0	631.4
45°	618.6	620.2	617.0	617.0	615.4	615.4	615.4	615.4	615.4	617.0	617.0
47.5°	581.7	581.7	580.1	578.5	578.5	576.9	578.5	576.9	580.1	581.7	584.9
50°	538.4	538.4	535.2	533.6	533.6	533.6	533.6	535.2	536.8	540.0	543.2
52.5°	493.6	493.6	492.0	490.4	488.8	488.8	493.6	492.0	493.6	495.2	500.0
55°	450.3	451.9	448.7	448.7	447.1	447.1	447.1	448.7	450.3	451.9	456.7
57.5°	413.4	413.4	410.2	410.2	410.2	408.6	413.4	410.2	411.8	413.4	416.6
60°	376.6	375.0	375.0	373.4	373.4	373.4	376.6	375.0	375.0	376.6	379.8
62.5°	342.9	342.9	341.3	341.3	339.7	339.7	342.9	341.3	341.3	342.9	344.5
65°	304.5	304.5	302.9	301.3	306.1	301.3	306.1	302.9	306.1	307.7	310.9
67.5°	261.2	261.2	261.2	259.6	259.6	262.8	264.4	261.2	262.8	266.0	267.6
70°	222.7	222.7	221.1	221.1	221.1	224.3	226.0	222.7	224.3	226.0	229.2
72.5°	189.1	185.9	185.9	184.3	187.5	187.5	189.1	187.5	189.1	189.1	192.3
75°	155.4	152.2	152.2	152.2	155.4	153.8	155.4	153.8	155.4	155.4	157.0
77.5°	125.0	123.4	121.8	121.8	125.0	125.0	125.0	123.4	125.0	126.6	128.2
80°	97.8	96.1	94.5	94.5	97.8	97.8	97.8	99.4	97.8	99.4	101.0
82.5°	72.1	70.5	68.9	72.1	72.1	72.1	72.1	73.7	72.1	73.7	75.3
85°	48.1	46.5	44.9	48.1	48.1	48.1	48.1	49.7	48.1	49.7	51.3
87.5°	25.6	24.0	24.0	25.6	25.6	25.6	27.2	27.2	27.2	28.8	28.8
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: P1214231

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6
2.5°	3783.5	3788.3	3786.7	3777.1	3767.4	3756.2	3748.2	3749.8	3765.8	3770.6	3756.2
5°	3624.8	3655.3	3655.3	3676.1	3664.9	3655.3	3661.7	3696.9	3714.6	3741.8	3751.4
7.5°	3461.4	3475.8	3474.2	3495.0	3491.8	3491.8	3496.6	3543.1	3565.5	3588.0	3594.4
10°	3370.0	3384.4	3382.8	3384.4	3379.6	3368.4	3368.4	3389.3	3408.5	3419.7	3422.9
12.5°	3304.3	3312.3	3310.7	3310.7	3307.5	3297.9	3296.3	3313.9	3334.8	3349.2	3350.8
15°	3206.6	3229.0	3233.8	3254.6	3249.8	3237.0	3240.2	3254.6	3267.5	3280.3	3275.5
17.5°	3060.7	3072.0	3073.6	3081.6	3078.4	3078.4	3097.6	3150.5	3185.7	3216.2	3219.4
20°	2977.4	2985.4	2982.2	2999.8	2991.8	2990.2	2995.0	3017.5	3033.5	3047.9	3073.6
22.5°	2937.4	2943.8	2939.0	2940.6	2926.1	2913.3	2910.1	2927.7	2945.4	2964.6	2964.6
25°	2903.7	2908.5	2906.9	2903.7	2892.5	2874.9	2871.7	2874.9	2881.3	2882.9	2871.7
27.5°	2863.6	2866.8	2866.8	2868.4	2854.0	2838.0	2834.8	2831.6	2838.0	2836.4	2818.8
30°	2822.0	2817.2	2818.8	2820.4	2807.6	2793.1	2786.7	2785.1	2791.5	2789.9	2772.3
32.5°	2722.6	2759.5	2762.7	2765.9	2754.7	2741.8	2735.4	2730.6	2733.8	2732.2	2716.2
35°	623.4	634.6	777.2	1759.5	2389.3	2645.7	2672.9	2666.5	2668.1	2668.1	2655.3
37.5°	625.0	623.4	621.8	617.0	612.1	608.9	1052.8	2245.1	2600.8	2602.4	2591.2
40°	625.0	623.4	621.8	618.6	612.1	607.3	599.3	592.9	607.3	1336.5	2445.4
42.5°	628.2	625.0	621.8	618.6	612.1	605.7	599.3	591.3	596.1	592.9	584.9
45°	618.6	617.0	617.0	615.4	612.1	605.7	597.7	588.1	583.3	588.1	580.1
47.5°	588.1	589.7	594.5	596.1	596.1	597.7	592.9	586.5	578.5	583.3	573.7
50°	546.4	549.7	551.3	559.3	562.5	568.9	570.5	570.5	568.9	575.3	568.9
52.5°	501.6	504.8	512.8	516.0	519.2	528.8	532.0	536.8	540.0	549.7	556.1
55°	458.3	459.9	463.1	469.5	474.3	482.3	487.2	492.0	500.0	504.8	524.0
57.5°	418.2	419.9	426.3	427.9	431.1	437.5	442.3	448.7	455.1	458.3	480.7
60°	379.8	381.4	386.2	387.8	389.4	395.8	400.6	405.4	410.2	413.4	429.5
62.5°	346.1	346.1	350.9	350.9	352.5	357.4	360.6	363.8	368.6	370.2	378.2
65°	312.5	314.1	317.3	317.3	318.9	322.1	323.7	325.3	330.1	330.1	336.5
67.5°	270.8	272.4	277.2	280.4	282.0	288.4	290.0	291.7	294.9	296.5	299.7
70°	230.8	232.4	237.2	238.8	240.4	245.2	248.4	253.2	258.0	262.8	266.0
72.5°	193.9	195.5	200.3	200.3	205.1	206.7	209.9	211.5	216.3	219.5	224.3
75°	158.6	160.2	165.1	165.1	169.9	171.5	173.1	174.7	177.9	181.1	184.3
77.5°	129.8	129.8	136.2	139.4	142.6	142.6	144.2	144.2	144.2	145.8	149.0
80°	102.6	102.6	107.4	110.6	113.8	113.8	115.4	117.0	118.6	118.6	120.2
82.5°	76.9	76.9	81.7	83.3	86.5	86.5	86.5	88.1	89.7	88.1	91.3
85°	52.9	52.9	56.1	57.7	60.9	60.9	60.9	62.5	64.1	62.5	64.1
87.5°	30.4	32.0	33.7	35.3	36.9	38.5	38.5	38.5	40.1	40.1	41.7
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: P1214231

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6
2.5°	3740.2	3721.0	3719.4	3696.9	3690.5	3692.1	3674.5	3668.1	3639.2	3632.8	3602.4
5°	3754.6	3764.2	3759.4	3757.8	3762.6	3759.4	3746.6	3740.2	3735.4	3722.6	3696.9
7.5°	3596.0	3602.4	3607.2	3628.0	3645.6	3676.1	3708.1	3729.0	3745.0	3748.2	3727.4
10°	3434.1	3464.6	3485.4	3517.5	3543.1	3560.7	3579.9	3597.6	3644.0	3690.5	3717.8
12.5°	3350.8	3358.8	3357.2	3374.8	3392.5	3438.9	3483.8	3509.4	3544.7	3565.5	3615.2
15°	3280.3	3281.9	3286.7	3299.5	3309.1	3325.2	3346.0	3384.4	3455.0	3487.0	3514.2
17.5°	3216.2	3216.2	3219.4	3230.6	3243.4	3257.8	3270.7	3286.7	3321.9	3374.8	3442.1
20°	3113.6	3158.5	3163.3	3161.7	3168.1	3195.4	3198.6	3227.4	3245.0	3265.9	3331.6
22.5°	2961.4	2988.6	3027.1	3086.4	3108.8	3121.6	3131.3	3144.1	3171.3	3195.4	3222.6
25°	2878.1	2895.7	2906.9	2924.5	2971.0	3046.3	3060.7	3075.2	3092.8	3110.4	3144.1
27.5°	2804.3	2802.7	2810.8	2826.8	2839.6	2879.7	2950.2	3006.3	3009.5	3035.1	3063.9
30°	2751.5	2741.8	2730.6	2727.4	2745.1	2765.9	2786.7	2874.9	2935.7	2948.6	2979.0
32.5°	2701.8	2685.8	2669.7	2656.9	2645.7	2663.3	2676.1	2714.6	2793.1	2866.8	2882.9
35°	2640.9	2624.9	2605.6	2591.2	2573.6	2572.0	2570.4	2607.2	2632.9	2721.0	2797.9
37.5°	2578.4	2560.8	2544.7	2528.7	2511.1	2498.3	2490.3	2499.9	2523.9	2562.4	2690.6
40°	2512.7	2491.9	2475.8	2463.0	2439.0	2429.4	2413.3	2406.9	2408.5	2442.2	2509.5
42.5°	1501.5	2394.1	2402.1	2387.7	2366.9	2354.0	2336.4	2328.4	2312.4	2328.4	2366.9
45°	578.5	584.9	1751.5	2314.0	2288.3	2272.3	2256.3	2248.3	2230.7	2217.8	2253.1
47.5°	567.3	573.7	560.9	794.8	2184.2	2189.0	2169.8	2161.8	2144.1	2134.5	2124.9
50°	559.3	564.1	554.5	557.7	546.4	2001.5	2081.6	2072.0	2052.8	2041.6	2022.3
52.5°	551.3	551.3	544.8	536.8	533.6	535.2	1684.2	1980.7	1958.2	1947.0	1921.4
55°	525.6	528.8	535.2	522.4	519.2	517.6	512.8	1604.1	1854.1	1841.3	1818.8
57.5°	487.2	493.6	511.2	508.0	508.0	495.2	492.0	492.0	1488.7	1733.9	1711.5
60°	442.3	448.7	467.9	474.3	479.1	475.9	472.7	471.1	464.7	1568.8	1597.7
62.5°	395.8	402.2	408.6	429.5	435.9	443.9	453.5	448.7	442.3	442.3	1477.5
65°	346.1	355.8	359.0	378.2	386.2	400.6	408.6	419.9	416.6	415.0	423.1
67.5°	302.9	314.1	315.7	323.7	338.1	344.5	354.1	375.0	384.6	387.8	391.0
70°	266.0	272.4	277.2	280.4	290.0	291.7	309.3	323.7	338.1	354.1	359.0
72.5°	229.2	234.0	243.6	240.4	243.6	250.0	259.6	269.2	283.6	306.1	320.5
75°	187.5	190.7	197.1	200.3	206.7	211.5	217.9	226.0	238.8	250.0	269.2
77.5°	150.6	152.2	157.0	158.6	165.1	169.9	181.1	185.9	193.9	201.9	213.1
80°	121.8	121.8	123.4	123.4	128.2	133.0	141.0	145.8	155.4	161.9	161.9
82.5°	92.9	92.9	97.8	97.8	101.0	101.0	105.8	105.8	110.6	113.8	117.0
85°	65.7	67.3	70.5	68.9	72.1	70.5	73.7	76.9	78.5	76.9	75.3
87.5°	43.3	43.3	46.5	44.9	46.5	46.5	49.7	49.7	51.3	51.3	49.7
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: P1214231

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6
2.5°	3591.2	3567.1	3552.7	3535.1	3530.3	3525.5	3531.9	3531.9	3522.3	3514.2	3499.8
5°	3674.5	3648.9	3621.6	3592.8	3565.5	3536.7	3525.5	3523.9	3506.2	3496.6	3491.8
7.5°	3717.8	3704.9	3674.5	3634.4	3592.8	3541.5	3519.1	3506.2	3488.6	3485.4	3485.4
10°	3722.6	3708.1	3692.1	3663.3	3615.2	3547.9	3504.6	3479.0	3463.0	3474.2	3495.0
12.5°	3676.1	3703.3	3688.9	3669.7	3631.2	3549.5	3487.0	3448.5	3443.7	3472.6	3527.1
15°	3557.5	3637.6	3677.7	3658.5	3628.0	3546.3	3458.2	3413.3	3413.3	3472.6	3543.1
17.5°	3467.8	3530.3	3628.0	3644.0	3608.8	3539.9	3430.9	3378.0	3392.5	3479.0	3554.3
20°	3394.1	3432.5	3527.1	3616.8	3583.2	3525.5	3390.9	3336.4	3365.2	3469.4	3570.3
22.5°	3278.7	3355.6	3413.3	3546.3	3557.5	3498.2	3350.8	3285.1	3342.8	3469.4	3562.3
25°	3166.5	3259.5	3320.3	3450.1	3519.1	3464.6	3313.9	3230.6	3318.7	3464.6	3555.9
27.5°	3088.0	3131.3	3241.8	3334.8	3461.4	3419.7	3264.3	3171.3	3288.3	3438.9	3519.1
30°	3004.7	3033.5	3142.5	3230.6	3384.4	3368.4	3213.0	3105.6	3249.8	3414.9	3422.9
32.5°	2913.3	2945.4	3001.5	3129.6	3277.1	3320.3	3155.3	3039.9	3208.2	3378.0	3310.7
35°	2820.4	2844.4	2889.3	3027.1	3152.1	3248.2	3084.8	2964.6	3179.3	3321.9	3203.4
37.5°	2727.4	2753.1	2791.5	2906.9	3020.7	3180.9	3023.9	2889.3	3126.4	3222.6	3091.2
40°	2639.3	2653.7	2693.8	2765.9	2911.7	3112.0	2955.0	2810.8	3072.0	3096.0	2939.0
42.5°	2477.4	2549.6	2586.4	2644.1	2788.3	3017.5	2874.9	2727.4	3011.1	2969.4	2786.7
45°	2302.8	2459.8	2475.8	2533.5	2679.4	2916.5	2799.5	2645.7	2953.4	2860.4	2642.5
47.5°	2160.1	2273.9	2366.9	2414.9	2549.6	2797.9	2729.0	2576.8	2866.8	2722.6	2501.5
50°	2033.6	2094.4	2262.7	2298.0	2394.1	2655.3	2645.7	2496.7	2746.7	2549.6	2363.7
52.5°	1910.2	1953.4	2105.7	2181.0	2259.5	2501.5	2546.3	2418.1	2615.3	2376.5	2224.2
55°	1802.8	1817.2	1900.5	2059.2	2129.7	2346.0	2437.4	2326.8	2448.6	2211.4	2089.6
57.5°	1692.2	1679.4	1740.3	1943.8	1995.1	2187.4	2322.0	2233.9	2314.0	2043.2	1950.2
60°	1576.8	1559.2	1584.9	1719.5	1852.5	2030.3	2185.8	2131.3	2150.5	1876.5	1794.8
62.5°	1456.7	1439.0	1431.0	1515.9	1713.1	1868.5	2048.0	2017.5	1950.2	1724.3	1602.5
65°	1331.7	1314.0	1301.2	1334.9	1559.2	1658.6	1894.1	1886.1	1730.7	1564.0	1349.3
67.5°	405.4	1195.5	1168.2	1166.6	1314.0	1467.9	1727.5	1714.7	1509.5	1392.6	1161.8
70°	365.4	969.5	1030.4	1016.0	1080.1	1274.0	1536.8	1527.2	1294.8	1116.9	1027.2
72.5°	334.9	342.9	910.2	894.2	908.6	1083.3	1338.1	1312.4	1097.7	881.4	887.8
75°	286.8	301.3	314.1	754.8	735.5	897.4	1121.7	1081.7	905.4	727.5	741.9
77.5°	234.0	251.6	261.2	549.7	594.5	639.4	895.8	842.9	623.4	581.7	277.2
80°	174.7	189.1	205.1	219.5	451.9	447.1	665.0	612.1	434.3	362.2	216.3
82.5°	128.2	133.0	142.6	158.6	179.5	299.7	427.9	376.6	301.3	165.1	149.0
85°	80.1	86.5	91.3	96.1	109.0	179.5	211.5	168.3	126.6	101.0	94.5
87.5°	51.3	51.3	49.7	51.3	52.9	64.1	72.1	68.9	54.5	51.3	51.3
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: P1214231

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6
2.5°	3483.8	3461.4	3461.4	3455.0	3459.8	3459.8	3458.2	3459.8	3471.0	3477.4	3488.6
5°	3482.2	3475.8	3490.2	3507.8	3528.7	3554.3	3560.7	3583.2	3604.0	3631.2	3660.1
7.5°	3503.0	3525.5	3552.7	3581.6	3623.2	3653.7	3680.9	3708.1	3727.4	3753.0	3769.0
10°	3533.5	3578.3	3624.8	3661.7	3706.5	3732.2	3749.8	3753.0	3725.8	3682.5	3647.3
12.5°	3576.7	3629.6	3672.9	3708.1	3729.0	3719.4	3668.1	3615.2	3584.8	3539.9	3477.4
15°	3613.6	3661.7	3706.5	3692.1	3636.0	3583.2	3543.1	3480.6	3419.7	3378.0	3350.8
17.5°	3629.6	3676.1	3660.1	3584.8	3531.9	3471.0	3389.3	3341.2	3301.1	3269.1	3253.0
20°	3639.2	3631.2	3544.7	3490.2	3387.6	3331.6	3278.7	3233.8	3203.4	3187.3	3184.1
22.5°	3613.6	3515.8	3442.1	3344.4	3269.1	3222.6	3180.9	3144.1	3123.2	3110.4	3102.4
25°	3528.7	3414.9	3305.9	3229.0	3164.9	3124.8	3092.8	3062.3	3036.7	3030.3	3014.3
27.5°	3410.1	3317.1	3172.9	3113.6	3057.5	3038.3	3003.1	2972.6	2950.2	2930.9	2879.7
30°	3312.3	3164.9	3060.7	3006.3	2972.6	2950.2	2910.1	2878.1	2839.6	2769.1	2740.2
32.5°	3192.1	3046.3	2947.0	2916.5	2874.9	2855.6	2810.8	2740.2	2681.0	2652.1	2650.5
35°	3036.7	2916.5	2844.4	2817.2	2783.5	2751.5	2658.5	2594.4	2565.6	2568.8	2592.8
37.5°	2906.9	2799.5	2753.1	2714.6	2676.1	2594.4	2515.9	2485.5	2493.5	2509.5	2520.7
40°	2775.5	2693.8	2640.9	2610.4	2523.9	2443.8	2402.1	2413.3	2427.8	2439.0	2453.4
42.5°	2647.3	2589.6	2536.7	2477.4	2358.9	2315.6	2325.2	2339.6	2352.4	2368.5	2382.9
45°	2525.5	2474.2	2413.3	2278.7	2219.4	2230.7	2245.1	2256.3	2275.5	2286.7	2301.2
47.5°	2410.1	2355.7	2248.3	2129.7	2123.3	2145.7	2158.5	2173.0	2187.4	2158.5	1190.6
50°	2280.3	2224.2	2060.8	2015.9	2030.3	2051.2	2067.2	2081.6	1854.1	737.1	567.3
52.5°	2152.1	2009.5	1905.4	1918.2	1932.6	1956.6	1967.8	1461.5	581.7	554.5	556.1
55°	2009.5	1826.8	1796.4	1812.4	1825.2	1849.3	1225.9	536.8	533.6	532.0	544.8
57.5°	1785.2	1674.6	1687.4	1703.4	1716.3	1211.5	522.4	519.2	520.8	522.4	524.0
60°	1584.9	1560.8	1575.2	1589.7	1124.9	504.8	495.2	496.8	503.2	498.4	485.6
62.5°	1426.2	1445.4	1459.9	1278.8	479.1	474.3	479.1	474.3	463.1	455.1	439.1
65°	1304.4	1323.7	1334.9	450.3	448.7	455.1	450.3	434.3	416.6	394.2	389.4
67.5°	1176.2	1195.5	427.9	416.6	423.1	415.0	395.8	376.6	363.8	344.5	336.5
70°	1043.2	447.1	387.8	386.2	375.0	362.2	341.3	322.1	306.1	298.1	290.0
72.5°	753.2	354.1	349.3	336.5	317.3	299.7	282.0	270.8	262.8	258.0	253.2
75°	314.1	307.7	293.3	270.8	251.6	243.6	230.8	222.7	219.5	209.9	206.7
77.5°	262.8	250.0	229.2	213.1	201.9	197.1	187.5	177.9	173.1	171.5	165.1
80°	201.9	184.3	174.7	166.7	163.5	152.2	141.0	136.2	133.0	131.4	126.6
82.5°	137.8	131.4	125.0	113.8	113.8	109.0	104.2	101.0	97.8	97.8	94.5
85°	89.7	84.9	83.3	78.5	78.5	75.3	73.7	72.1	70.5	68.9	67.3
87.5°	51.3	51.3	52.9	51.3	51.3	49.7	48.1	46.5	44.9	44.9	41.7
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: P1214231

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6
2.5°	3503.0	3519.1	3522.3	3576.7	3607.2	3605.6	3596.0	3624.8	3607.2	3597.6	3607.2
5°	3688.9	3708.1	3724.2	3783.5	3804.3	3813.9	3812.3	3828.3	3815.5	3804.3	3804.3
7.5°	3780.3	3786.7	3793.1	3778.7	3769.0	3753.0	3729.0	3693.7	3676.1	3656.9	3632.8
10°	3629.6	3608.8	3616.8	3588.0	3563.9	3546.3	3523.9	3495.0	3471.0	3453.4	3426.1
12.5°	3445.3	3443.7	3446.9	3451.7	3427.7	3413.3	3395.7	3374.8	3357.2	3338.0	3315.5
15°	3333.2	3334.8	3347.6	3342.8	3334.8	3326.8	3307.5	3301.1	3285.1	3264.3	3251.4
17.5°	3253.0	3261.1	3273.9	3267.5	3254.6	3246.6	3232.2	3217.8	3203.4	3187.3	3168.1
20°	3182.5	3190.5	3198.6	3190.5	3166.5	3155.3	3136.1	3091.2	3059.1	3027.1	2998.2
22.5°	3105.6	3110.4	3104.0	3078.4	3017.5	2988.6	2966.2	2953.4	2926.1	2908.5	2890.9
25°	3009.5	2982.2	2940.6	2911.7	2887.7	2874.9	2865.2	2863.6	2860.4	2857.2	2849.2
27.5°	2852.4	2842.8	2820.4	2809.2	2810.8	2815.6	2817.2	2822.0	2817.2	2810.8	2804.3
30°	2735.4	2740.2	2741.8	2745.1	2753.1	2757.9	2759.5	2765.9	2762.7	2757.9	2754.7
32.5°	2661.7	2672.9	2679.4	2689.0	2693.8	2701.8	2701.8	2711.4	2701.8	2700.2	2697.0
35°	2600.8	2610.4	2613.7	2628.1	2632.9	2640.9	2640.9	2648.9	2640.9	2559.2	2020.7
37.5°	2539.9	2549.6	2556.0	2568.8	2570.4	2575.2	2376.5	1738.7	1121.7	868.5	663.4
40°	2467.8	2479.0	2485.5	2490.3	1749.9	1110.5	764.4	621.8	621.8	626.6	631.4
42.5°	2390.9	2398.9	1671.4	972.7	605.7	604.1	608.9	613.8	618.6	625.0	631.4
45°	1879.7	948.7	602.5	588.1	592.9	599.3	605.7	612.1	620.2	626.6	629.8
47.5°	617.0	578.5	586.5	580.1	588.1	596.1	602.5	608.9	610.5	612.1	610.5
50°	570.5	570.5	575.3	575.3	581.7	584.9	584.9	584.9	578.5	576.9	572.1
52.5°	551.3	564.1	557.7	560.9	557.7	552.9	548.0	543.2	533.6	530.4	524.0
55°	541.6	546.4	530.4	525.6	519.2	506.4	500.0	493.6	485.6	482.3	474.3
57.5°	519.2	508.0	490.4	482.3	471.1	458.3	451.9	447.1	439.1	435.9	431.1
60°	477.5	455.1	443.9	434.3	421.5	410.2	405.4	402.2	395.8	394.2	389.4
62.5°	426.3	407.0	397.4	384.6	375.0	368.6	363.8	362.2	355.8	355.8	352.5
65°	370.2	360.6	352.5	339.7	334.9	328.5	326.9	325.3	322.1	320.5	317.3
67.5°	325.3	318.9	307.7	301.3	298.1	293.3	290.0	286.8	280.4	277.2	272.4
70°	285.2	280.4	269.2	264.4	258.0	250.0	245.2	242.0	237.2	234.0	229.2
72.5°	246.8	232.4	224.3	219.5	214.7	206.7	205.1	201.9	197.1	195.5	190.7
75°	198.7	187.5	182.7	179.5	174.7	169.9	169.9	169.9	165.1	163.5	161.9
77.5°	158.6	152.2	149.0	145.8	144.2	141.0	136.2	134.6	129.8	129.8	128.2
80°	121.8	118.6	115.4	113.8	112.2	109.0	105.8	104.2	99.4	99.4	97.8
82.5°	89.7	88.1	86.5	84.9	83.3	81.7	76.9	75.3	72.1	72.1	70.5
85°	64.1	62.5	59.3	57.7	57.7	56.1	51.3	49.7	46.5	46.5	46.5
87.5°	40.1	38.5	36.9	35.3	33.7	32.0	28.8	27.2	27.2	24.0	22.4
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: P1214231

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6
2.5°	3588.0	3615.2	3612.0	3631.2	3636.0	3645.6	3648.9	3650.5	3626.4	3645.6	3647.3
5°	3799.5	3804.3	3807.5	3815.5	3823.5	3825.1	3817.1	3807.5	3810.7	3804.3	3788.3
7.5°	3629.6	3605.6	3600.8	3594.4	3591.2	3588.0	3573.5	3586.4	3571.9	3565.5	3543.1
10°	3421.3	3398.9	3397.3	3397.3	3402.1	3400.5	3397.3	3390.9	3403.7	3395.7	3390.9
12.5°	3312.3	3304.3	3309.1	3305.9	3318.7	3321.9	3318.7	3318.7	3315.5	3309.1	3312.3
15°	3246.6	3240.2	3245.0	3240.2	3249.8	3251.4	3243.4	3248.2	3240.2	3232.2	3229.0
17.5°	3160.1	3145.7	3134.5	3118.4	3120.0	3116.8	3107.2	3107.2	3099.2	3078.4	3080.0
20°	2993.4	2979.0	2972.6	2972.6	2980.6	2983.8	2982.2	2985.4	2977.4	2974.2	2961.4
22.5°	2889.3	2887.7	2890.9	2898.9	2911.7	2929.3	2930.9	2930.9	2930.9	2929.3	2913.3
25°	2852.4	2852.4	2855.6	2866.8	2876.5	2889.3	2892.5	2895.7	2892.5	2892.5	2878.1
27.5°	2810.8	2807.6	2814.0	2825.2	2836.4	2846.0	2854.0	2855.6	2850.8	2850.8	2855.6
30°	2759.5	2757.9	2765.9	2777.1	2786.7	2796.3	2804.3	2810.8	2804.3	2804.3	2799.5
32.5°	2706.6	2706.6	2709.8	2642.5	2450.2	2206.6	2211.4	2070.4	1972.7	1849.3	2012.7
35°	1689.0	1229.1	1056.0	894.2	780.4	706.7	705.1	681.1	669.8	661.8	660.2
37.5°	637.8	641.0	647.4	650.6	655.4	658.6	660.2	660.2	660.2	660.2	658.6
40°	636.2	642.6	647.4	652.2	657.0	660.2	660.2	661.8	663.4	663.4	663.4
42.5°	637.8	644.2	650.6	655.4	658.6	660.2	661.8	663.4	663.4	663.4	663.4
45°	636.2	639.4	639.4	641.0	641.0	641.0	642.6	642.6	641.0	639.4	642.6
47.5°	612.1	612.1	607.3	605.7	604.1	600.9	602.5	600.9	599.3	597.7	600.9
50°	570.5	564.1	560.9	557.7	556.1	552.9	554.5	552.9	551.3	548.0	552.9
52.5°	520.8	519.2	512.8	509.6	508.0	509.6	506.4	504.8	503.2	501.6	503.2
55°	472.7	466.3	464.7	461.5	459.9	461.5	459.9	458.3	456.7	455.1	456.7
57.5°	429.5	424.7	423.1	419.9	419.9	419.9	419.9	418.2	416.6	415.0	416.6
60°	387.8	384.6	383.0	383.0	381.4	381.4	381.4	379.8	378.2	378.2	379.8
62.5°	352.5	352.5	347.7	346.1	346.1	347.7	346.1	344.5	342.9	341.3	344.5
65°	315.7	309.3	307.7	304.5	301.3	302.9	301.3	299.7	298.1	296.5	299.7
67.5°	270.8	269.2	262.8	259.6	258.0	259.6	258.0	256.4	254.8	253.2	256.4
70°	227.6	227.6	221.1	219.5	217.9	217.9	216.3	216.3	214.7	213.1	216.3
72.5°	189.1	189.1	187.5	184.3	182.7	181.1	179.5	177.9	177.9	179.5	179.5
75°	157.0	153.8	147.4	149.0	147.4	145.8	145.8	144.2	142.6	145.8	144.2
77.5°	123.4	121.8	117.0	118.6	117.0	115.4	115.4	113.8	112.2	113.8	113.8
80°	92.9	92.9	91.3	89.7	89.7	88.1	86.5	86.5	84.9	86.5	86.5
82.5°	67.3	67.3	65.7	64.1	62.5	62.5	60.9	60.9	60.9	60.9	60.9
85°	43.3	41.7	41.7	38.5	38.5	38.5	36.9	36.9	36.9	36.9	36.9
87.5°	20.8	20.8	19.2	19.2	17.6	16.0	16.0	14.4	14.4	16.0	16.0
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: P1214231

CATALOG NUMBER: 4SNLED-LD5-76SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6
2.5°	3618.4	3639.2	3621.6	3629.6	3631.2	3658.5	3656.9	3663.3	3652.1	3639.2	3621.6
5°	3802.7	3793.1	3780.3	3810.7	3794.7	3813.9	3820.3	3833.1	3833.1	3831.5	3817.1
7.5°	3567.1	3546.3	3562.3	3573.5	3578.3	3565.5	3591.2	3620.0	3644.0	3658.5	3660.1
10°	3382.8	3389.3	3387.6	3392.5	3403.7	3402.1	3418.1	3434.1	3440.5	3450.1	3453.4
12.5°	3296.3	3294.7	3297.9	3309.1	3315.5	3313.9	3330.0	3339.6	3342.8	3344.4	3342.8
15°	3227.4	3216.2	3224.2	3225.8	3230.6	3230.6	3249.8	3264.3	3270.7	3273.9	3270.7
17.5°	3097.6	3070.4	3096.0	3096.0	3113.6	3110.4	3140.9	3164.9	3177.7	3187.3	3187.3
20°	2969.4	2956.6	2966.2	2963.0	2975.8	2974.2	2993.4	3009.5	3020.7	3028.7	3038.3
22.5°	2918.1	2921.3	2906.9	2908.5	2908.5	2906.9	2916.5	2924.5	2927.7	2932.5	2929.3
25°	2884.5	2887.7	2882.9	2874.9	2871.7	2874.9	2879.7	2889.3	2890.9	2887.7	2876.5
27.5°	2850.8	2841.2	2849.2	2834.8	2831.6	2838.0	2844.4	2846.0	2847.6	2847.6	2838.0
30°	2799.5	2791.5	2799.5	2793.1	2786.7	2793.1	2797.9	2797.9	2801.1	2802.7	2791.5
32.5°	1956.6	1972.7	2232.3	2389.3	2610.4	2722.6	2743.5	2743.5	2746.7	2746.7	2737.0
35°	666.6	668.2	722.7	783.6	913.4	1073.7	1283.6	1392.6	1761.1	2201.8	2628.1
37.5°	658.6	657.0	655.4	653.8	652.2	650.6	647.4	645.8	655.4	777.2	1054.4
40°	661.8	660.2	657.0	655.4	653.8	650.6	649.0	645.8	642.6	639.4	636.2
42.5°	661.8	660.2	658.6	657.0	655.4	653.8	650.6	647.4	644.2	639.4	634.6
45°	639.4	639.4	641.0	641.0	642.6	642.6	642.6	641.0	641.0	639.4	633.0
47.5°	597.7	597.7	602.5	602.5	605.7	608.9	608.9	612.1	617.0	620.2	621.8
50°	549.7	549.7	554.5	556.1	559.3	564.1	568.9	570.5	575.3	581.7	588.1
52.5°	501.6	501.6	506.4	506.4	509.6	514.4	519.2	520.8	527.2	533.6	541.6
55°	456.7	456.7	459.9	461.5	463.1	466.3	471.1	471.1	477.5	482.3	490.4
57.5°	416.6	419.9	419.9	419.9	421.5	424.7	427.9	427.9	432.7	437.5	443.9
60°	378.2	381.4	381.4	381.4	383.0	384.6	387.8	387.8	391.0	394.2	400.6
62.5°	342.9	346.1	346.1	347.7	347.7	349.3	352.5	350.9	354.1	355.8	360.6
65°	298.1	301.3	302.9	304.5	306.1	309.3	314.1	312.5	317.3	320.5	325.3
67.5°	254.8	258.0	258.0	259.6	261.2	264.4	267.6	267.6	272.4	275.6	282.0
70°	214.7	217.9	217.9	219.5	221.1	224.3	227.6	226.0	230.8	234.0	238.8
72.5°	177.9	181.1	181.1	182.7	182.7	185.9	189.1	192.3	192.3	195.5	198.7
75°	144.2	145.8	147.4	147.4	149.0	150.6	153.8	157.0	158.6	160.2	163.5
77.5°	113.8	115.4	117.0	117.0	118.6	120.2	121.8	128.2	131.4	133.0	133.0
80°	86.5	88.1	88.1	88.1	89.7	91.3	94.5	94.5	101.0	101.0	102.6
82.5°	60.9	62.5	62.5	62.5	64.1	67.3	68.9	70.5	73.7	75.3	75.3
85°	36.9	38.5	38.5	38.5	40.1	41.7	44.9	46.5	48.1	48.1	49.7
87.5°	14.4	16.0	17.6	17.6	19.2	20.8	22.4	24.0	25.6	25.6	27.2
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°	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6
2.5°	3602.4	3613.6	3602.4	3608.8	3616.8	3602.4	3568.7	3555.9	3551.1	3531.9	3519.1
5°	3802.7	3802.7	3797.9	3810.7	3809.1	3786.7	3751.4	3735.4	3719.4	3698.5	3682.5
7.5°	3660.1	3672.9	3680.9	3730.6	3762.6	3765.8	3788.3	3793.1	3799.5	3793.1	3783.5
10°	3455.0	3450.1	3472.6	3519.1	3546.3	3560.7	3604.0	3624.8	3642.4	3677.7	3714.6
12.5°	3339.6	3346.0	3355.6	3389.3	3414.9	3408.5	3426.1	3440.5	3461.4	3496.6	3549.5
15°	3262.7	3269.1	3278.7	3304.3	3320.3	3312.3	3321.9	3331.6	3346.0	3363.6	3395.7
17.5°	3179.3	3190.5	3201.8	3229.0	3243.4	3241.8	3249.8	3253.0	3257.8	3269.1	3291.5
20°	3049.5	3084.8	3107.2	3144.1	3164.9	3161.7	3176.1	3180.9	3187.3	3198.6	3208.2
22.5°	2930.9	2940.6	2951.8	2991.8	3027.1	3070.4	3080.0	3092.8	3108.8	3120.0	3129.6
25°	2863.6	2857.2	2862.0	2889.3	2908.5	2911.7	2926.1	2967.8	3011.1	3030.3	3052.7
27.5°	2823.6	2817.2	2815.6	2828.4	2831.6	2823.6	2820.4	2833.2	2865.2	2897.3	2964.6
30°	2780.3	2772.3	2765.9	2777.1	2781.9	2770.7	2749.9	2738.6	2757.9	2765.9	2793.1
32.5°	2729.0	2721.0	2717.8	2724.2	2727.4	2717.8	2695.4	2682.6	2679.4	2672.9	2679.4
35°	2671.3	2663.3	2658.5	2660.1	2666.5	2658.5	2639.3	2623.3	2615.3	2597.6	2584.8
37.5°	1376.5	1950.2	2531.9	2592.8	2599.2	2597.6	2578.4	2560.8	2552.8	2531.9	2525.5
40°	629.8	703.5	1056.0	1379.7	1990.3	2528.7	2511.1	2493.5	2479.0	2472.6	2448.6
42.5°	628.2	629.8	631.4	623.4	772.4	1315.6	1942.2	2424.6	2414.9	2398.9	2381.3
45°	628.2	620.2	626.6	617.0	620.2	618.6	770.8	1243.5	2213.0	2312.4	2304.4
47.5°	621.8	617.0	623.4	615.4	605.7	610.5	604.1	612.1	955.1	1620.1	2219.4
50°	592.9	596.1	607.3	605.7	597.7	604.1	592.9	602.5	594.5	652.2	1256.3
52.5°	549.7	556.1	567.3	576.9	580.1	588.1	584.9	588.1	581.7	583.3	584.9
55°	498.4	506.4	516.0	530.4	536.8	549.7	559.3	564.1	572.1	570.5	557.7
57.5°	450.3	458.3	466.3	480.7	495.2	501.6	519.2	528.8	549.7	544.8	541.6
60°	405.4	411.8	419.9	423.1	440.7	451.9	467.9	477.5	504.8	511.2	520.8
62.5°	365.4	368.6	375.0	379.8	391.0	402.2	410.2	426.3	440.7	461.5	475.9
65°	328.5	331.7	336.5	339.7	341.3	357.4	362.2	379.8	384.6	407.0	419.9
67.5°	286.8	293.3	299.7	302.9	306.1	315.7	318.9	326.9	338.1	347.7	363.8
70°	243.6	248.4	254.8	259.6	266.0	272.4	282.0	286.8	294.9	301.3	314.1
72.5°	203.5	208.3	211.5	216.3	221.1	226.0	234.0	245.2	251.6	262.8	266.0
75°	165.1	169.9	173.1	176.3	181.1	184.3	187.5	198.7	205.1	214.7	224.3
77.5°	136.2	136.2	139.4	149.0	147.4	147.4	150.6	157.0	161.9	168.3	177.9
80°	105.8	107.4	109.0	117.0	118.6	120.2	118.6	123.4	128.2	129.8	136.2
82.5°	78.5	80.1	80.1	84.9	89.7	89.7	89.7	91.3	96.1	97.8	101.0
85°	52.9	54.5	56.1	57.7	60.9	62.5	64.1	64.1	67.3	68.9	70.5
87.5°	28.8	32.0	33.7	35.3	36.9	38.5	40.1	41.7	43.3	44.9	46.5
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):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6	3496.6
2.5°	3514.2	3506.2	3501.4	3488.6	3485.4	3464.6	3467.8	3464.6	3464.6	3469.4	3485.4
5°	3664.9	3626.4	3616.8	3589.6	3567.1	3528.7	3504.6	3491.8	3472.6	3464.6	3475.8
7.5°	3767.4	3738.6	3714.6	3690.5	3658.5	3613.6	3579.9	3541.5	3509.4	3479.0	3471.0
10°	3749.8	3781.9	3781.9	3767.4	3737.0	3692.1	3652.1	3604.0	3547.9	3499.8	3471.0
12.5°	3600.8	3656.9	3701.7	3735.4	3765.8	3735.4	3695.3	3656.9	3594.4	3523.9	3471.0
15°	3437.3	3495.0	3551.1	3621.6	3695.3	3725.8	3724.2	3679.3	3623.2	3549.5	3475.8
17.5°	3321.9	3362.0	3392.5	3469.4	3559.1	3637.6	3690.5	3693.7	3639.2	3573.5	3477.4
20°	3235.4	3264.3	3289.9	3333.2	3411.7	3507.8	3605.6	3660.1	3650.5	3578.3	3482.2
22.5°	3156.9	3177.7	3198.6	3230.6	3293.1	3355.6	3469.4	3581.6	3629.6	3570.3	3477.4
25°	3078.4	3100.8	3116.8	3139.3	3188.9	3240.2	3320.3	3459.8	3567.1	3563.9	3467.8
27.5°	2985.4	3015.9	3035.1	3065.6	3099.2	3137.7	3192.1	3323.6	3477.4	3531.9	3442.1
30°	2873.3	2918.1	2947.0	2980.6	3009.5	3043.1	3086.4	3166.5	3357.2	3469.4	3414.9
32.5°	2711.4	2791.5	2855.6	2887.7	2919.7	2948.6	2987.0	3054.3	3209.8	3384.4	3384.4
35°	2596.0	2632.9	2690.6	2783.5	2823.6	2852.4	2887.7	2940.6	3039.9	3283.5	3334.8
37.5°	2506.3	2520.7	2549.6	2640.9	2716.2	2762.7	2797.9	2831.6	2929.3	3145.7	3270.7
40°	2439.0	2434.2	2431.0	2474.2	2581.6	2655.3	2695.4	2729.0	2804.3	2980.6	3185.7
42.5°	2360.5	2355.7	2339.6	2350.8	2403.7	2527.1	2588.0	2624.9	2687.4	2807.6	3092.8
45°	2278.7	2270.7	2264.3	2253.1	2272.3	2341.2	2466.2	2520.7	2556.0	2663.3	2975.8
47.5°	2195.4	2184.2	2176.2	2166.6	2155.3	2187.4	2306.0	2403.7	2464.6	2531.9	2834.8
50°	2076.8	2091.2	2081.6	2070.4	2060.8	2054.4	2104.1	2264.3	2339.6	2394.1	2663.3
52.5°	979.1	1903.8	1983.9	1972.7	1959.8	1948.6	1959.8	2081.6	2217.8	2261.1	2456.6
55°	557.7	847.7	1764.3	1865.3	1854.1	1838.0	1828.4	1870.1	2073.6	2131.3	2267.5
57.5°	536.8	538.4	778.8	1681.0	1743.5	1729.1	1717.9	1727.5	1900.5	1998.3	2102.5
60°	519.2	519.2	519.2	743.6	1607.3	1612.1	1597.7	1581.7	1657.0	1849.3	1935.8
62.5°	480.7	490.4	495.2	495.2	733.9	1488.7	1474.3	1469.5	1472.7	1669.8	1769.1
65°	431.1	453.5	463.1	469.5	469.5	770.8	1347.7	1339.7	1328.5	1403.8	1600.9
67.5°	376.6	399.0	419.9	432.7	434.3	448.7	804.4	1206.7	1190.6	1192.2	1421.4
70°	320.5	339.7	362.2	381.4	399.0	407.0	419.9	1001.6	1054.4	1032.0	1217.9
72.5°	277.2	285.2	301.3	320.5	341.3	360.6	371.8	399.0	915.0	891.0	926.2
75°	230.8	237.2	248.4	261.2	277.2	299.7	318.9	338.1	485.6	746.8	741.9
77.5°	179.5	190.7	203.5	211.5	219.5	235.6	261.2	280.4	299.7	504.8	594.5
80°	137.8	145.8	152.2	160.2	169.9	181.1	190.7	213.1	235.6	253.2	455.1
82.5°	102.6	107.4	112.2	115.4	118.6	125.0	142.6	150.6	165.1	181.1	214.7
85°	72.1	75.3	78.5	80.1	81.7	83.3	89.7	91.3	105.8	109.0	129.8
87.5°	46.5	48.1	51.3	52.9	52.9	54.5	56.1	56.1	56.1	52.9	64.1
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-LD5-76SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	3496.6	3496.6
2.5°	3498.2	3523.9
5°	3493.4	3527.1
7.5°	3480.6	3512.6
10°	3461.4	3499.8
12.5°	3440.5	3477.4
15°	3422.9	3450.1
17.5°	3403.7	3419.7
20°	3378.0	3390.9
22.5°	3352.4	3346.0
25°	3323.6	3309.1
27.5°	3286.7	3259.5
30°	3253.0	3205.0
32.5°	3221.0	3142.5
35°	3177.7	3078.4
37.5°	3132.9	3012.7
40°	3080.0	2937.4
42.5°	3023.9	2862.0
45°	2953.4	2789.9
47.5°	2890.9	2703.4
50°	2804.3	2610.4
52.5°	2698.6	2523.9
55°	2573.6	2418.1
57.5°	2439.0	2307.6
60°	2294.8	2181.0
62.5°	2120.1	2049.6
65°	1915.0	1898.9
67.5°	1647.4	1732.3
70°	1350.9	1541.6
72.5°	1129.8	1339.7
75°	926.2	1113.7
77.5°	733.9	873.4
80°	458.3	639.4
82.5°	307.7	419.9
85°	185.9	200.3
87.5°	72.1	73.7
90°	0.0	0.0

(END OF REPORT)