

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8SNLED-LD5-64SL-RW-UNV-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-64SL-RW-UNV-L950-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
WHITE REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

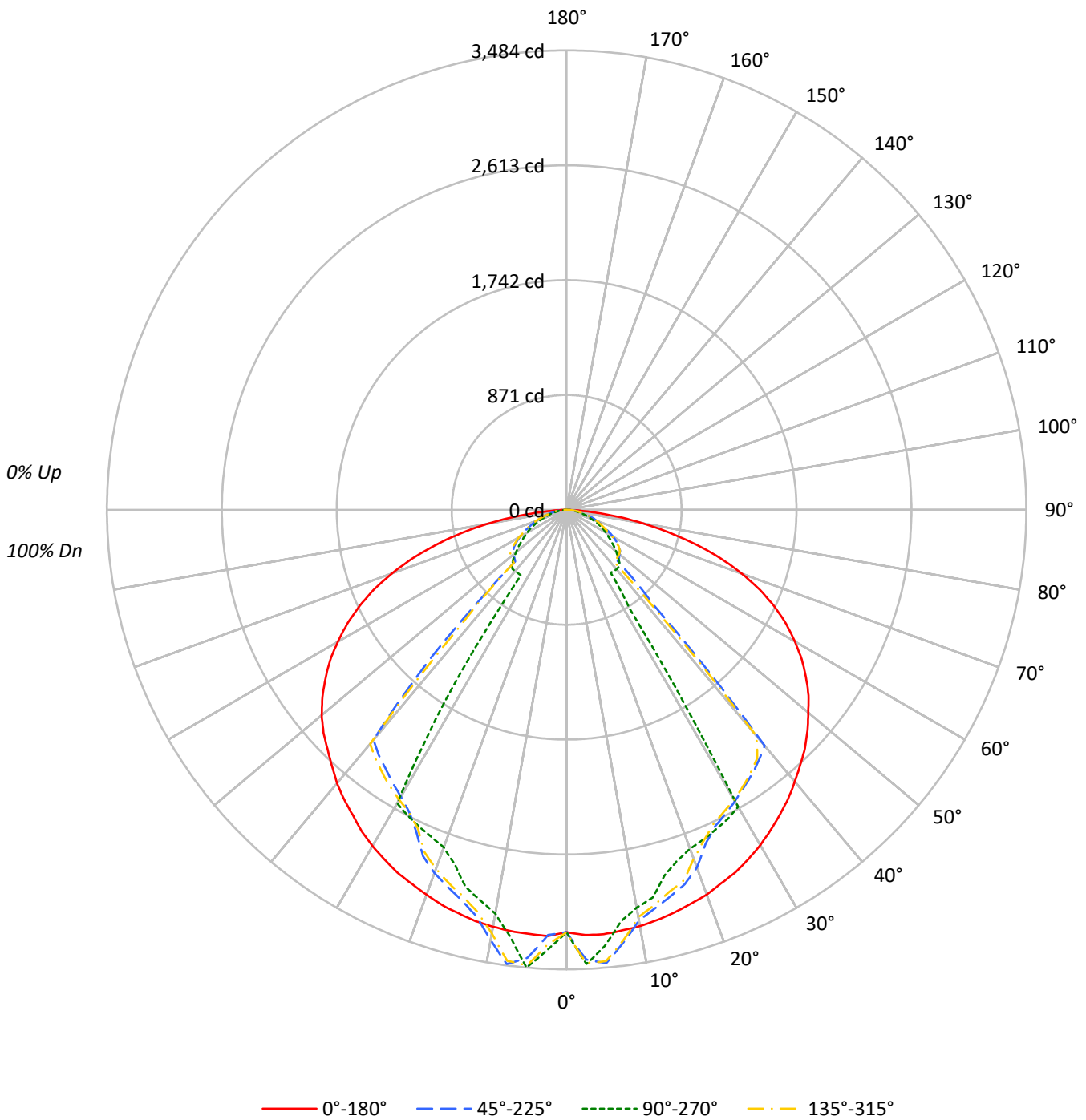
Lumens per Lamp: N/A  
Luminaire Lumens: 6412.0 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 50  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 FT



TEST NUMBER: P#  
CATALOG NUMBER: 8SNLED-LD5-64SL-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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87					87			
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75					75			
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65					65			
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57					57			
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51					51			
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46					46			
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41					41			
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37					37			
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34					34			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31					31			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	12938	12938	12938	12938
5°	13082	13035	13076	13680
10°	13113	11785	13131	11966
15°	13161	10904	13192	11250
20°	13276	10342	13276	10303
25°	13412	10144	13431	10050
30°	13571	9966	13604	9847
35°	13754	2270	13783	2367
40°	14004	2360	14088	2437
45°	14374	2347	14423	2433
50°	14752	2122	14951	2180
55°	15259	1884	15380	1911
60°	15714	1674	15749	1696
65°	16086	1461	16045	1438
70°	15991	1178	15941	1135
75°	15045	906	15152	868
80°	12515	644	13017	589
85°	7214	386	7619	296



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.0	4.9
10°-20°	866.2	13.5
20°-30°	1283.0	20.0
30°-40°	1292.7	20.2
40°-50°	1009.8	15.7
50°-60°	780.0	12.2
60°-70°	523.7	8.2
70°-80°	267.1	4.2
80°-90°	74.3	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2464.2	38.4
0°-40°	3757.0	58.6
0°-60°	5546.8	86.5
0°-90°	6412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6412.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3202	3202	3202	3202	3202	
5°	3230	3319	3228	3484	3230	307
15°	3159	2869	3167	2960	3159	894
25°	3030	2674	3035	2649	3030	1398
35°	2819	581	2825	606	2819	1767
45°	2555	565	2564	586	2555	1970
55°	2214	411	2232	417	2214	1978
65°	1739	276	1734	272	1739	1710
75°	1020	139	1027	134	1020	1067
85°	183	44	194	34	183	252
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-64SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0
2.5°	3226.9	3238.7	3247.5	3253.3	3256.3	3256.3	3257.8	3259.2	3278.3	3287.1	3293.0
5°	3229.9	3241.6	3259.2	3282.7	3303.2	3320.9	3335.5	3356.1	3376.6	3398.6	3406.0
7.5°	3216.7	3231.3	3266.6	3309.1	3348.7	3376.6	3395.7	3408.9	3419.2	3420.6	3428.0
10°	3204.9	3231.3	3279.8	3335.5	3385.4	3419.2	3419.2	3411.8	3422.1	3382.5	3342.9
12.5°	3184.4	3213.7	3279.8	3353.1	3400.1	3413.3	3407.4	3378.1	3317.9	3269.5	3247.5
15°	3159.4	3199.1	3281.2	3363.4	3403.0	3407.4	3351.7	3276.8	3231.3	3202.0	3165.3
17.5°	3131.5	3184.4	3282.7	3364.9	3379.5	3359.0	3253.3	3206.4	3159.4	3090.5	3040.6
20°	3105.1	3156.5	3271.0	3344.3	3353.1	3260.7	3178.5	3128.6	3049.4	2989.2	2967.2
22.5°	3064.0	3124.2	3260.7	3316.4	3282.7	3175.6	3096.3	3017.1	2945.2	2927.6	2901.2
25°	3030.3	3093.4	3237.2	3282.7	3193.2	3097.8	3005.3	2912.9	2879.1	2854.2	2830.7
27.5°	2984.8	3062.6	3206.4	3221.1	3097.8	3014.2	2879.1	2838.1	2807.2	2779.4	2769.1
30°	2934.9	3030.3	3163.8	3136.0	3018.6	2895.3	2795.5	2757.3	2735.3	2706.0	2694.2
32.5°	2877.7	2981.9	3116.9	3037.6	2933.4	2779.4	2714.8	2685.4	2656.1	2634.1	2560.7
35°	2819.0	2939.3	3061.1	2943.7	2830.7	2691.3	2634.1	2607.7	2579.8	2499.1	2422.8
37.5°	2758.8	2892.4	2993.6	2842.5	2694.2	2600.3	2551.9	2522.6	2459.5	2356.7	2318.6
40°	2689.8	2835.1	2907.0	2738.3	2575.4	2507.9	2462.4	2433.0	2290.7	2245.2	2233.5
42.5°	2620.9	2779.4	2801.4	2637.0	2477.1	2409.6	2371.4	2274.6	2177.7	2154.2	2158.6
45°	2554.8	2719.2	2685.4	2493.2	2374.3	2318.6	2254.0	2120.5	2069.1	2080.9	2083.8
47.5°	2475.6	2647.3	2563.6	2349.4	2268.7	2212.9	2069.1	1988.4	1981.1	1997.2	2006.0
50°	2390.5	2566.6	2434.5	2218.8	2154.2	2088.2	1925.3	1884.2	1893.0	1909.2	1919.4
52.5°	2311.2	2475.6	2301.0	2097.0	2041.2	1890.1	1780.0	1787.4	1802.0	1821.1	1827.0
55°	2214.4	2365.5	2158.6	1973.7	1920.9	1722.8	1672.9	1690.5	1705.2	1721.3	1733.1
57.5°	2113.1	2239.3	1989.9	1835.8	1750.7	1574.6	1579.0	1590.7	1601.0	1620.1	669.2
60°	1997.2	2095.5	1805.0	1708.1	1539.4	1457.2	1461.6	1482.1	1492.4	833.5	460.8
62.5°	1876.9	1928.2	1637.7	1562.8	1345.7	1339.8	1360.3	1369.1	931.8	440.2	431.4
65°	1738.9	1728.7	1473.3	1354.5	1213.6	1219.5	1241.5	1197.4	412.4	412.4	409.4
67.5°	1586.3	1524.7	1313.4	1121.1	1085.9	1099.1	1122.6	391.8	381.5	384.5	374.2
70°	1411.7	1325.1	1147.6	949.4	961.2	974.4	378.6	355.1	350.7	343.4	322.8
72.5°	1226.8	1107.9	939.2	824.7	832.0	522.4	331.6	319.9	305.2	290.6	268.5
75°	1019.9	865.8	689.7	689.7	700.0	297.9	289.1	270.0	253.9	234.8	221.6
77.5°	799.8	666.2	535.6	556.2	271.5	249.5	233.3	212.8	199.6	187.8	180.5
80°	585.5	465.2	403.6	361.0	211.3	189.3	173.2	161.4	155.6	148.2	139.4
82.5°	384.5	280.3	280.3	170.2	148.2	130.6	126.2	117.4	111.5	107.1	102.7
85°	183.4	162.9	123.3	104.2	92.4	83.6	80.7	76.3	76.3	74.8	73.4
87.5°	67.5	73.4	54.3	52.8	49.9	48.4	49.9	49.9	51.4	49.9	48.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0
2.5°	3307.6	3319.4	3328.2	3342.9	3361.9	3378.1	3392.8	3413.3	3445.6	3454.4	3461.7
5°	3406.0	3410.4	3420.6	3432.4	3435.3	3442.7	3441.2	3450.0	3454.4	3464.7	3442.7
7.5°	3411.8	3388.4	3360.5	3335.5	3317.9	3301.8	3291.5	3307.6	3316.4	3323.8	3301.8
10°	3288.6	3260.7	3244.5	3229.9	3212.3	3187.3	3153.6	3160.9	3158.0	3158.0	3150.6
12.5°	3210.8	3171.2	3130.1	3093.4	3077.3	3075.8	3077.3	3093.4	3093.4	3091.9	3083.1
15°	3089.0	3050.8	3030.3	3021.5	3021.5	3017.1	3017.1	3034.7	3030.3	3030.3	3025.9
17.5°	3008.3	2981.9	2967.2	2956.9	2952.5	2959.9	2968.7	2976.0	2977.5	2971.6	2948.1
20°	2942.2	2917.3	2899.7	2902.6	2901.2	2905.6	2910.0	2885.0	2854.2	2813.1	2794.0
22.5°	2873.3	2854.2	2841.0	2841.0	2823.4	2795.5	2754.4	2745.6	2741.2	2722.1	2706.0
25°	2807.2	2785.2	2766.2	2707.5	2670.8	2675.2	2667.8	2653.2	2651.7	2650.2	2656.1
27.5°	2741.2	2684.0	2610.6	2601.8	2587.1	2585.7	2594.5	2601.8	2601.8	2607.7	2615.0
30°	2604.7	2538.7	2525.5	2509.3	2515.2	2535.8	2540.2	2550.4	2553.4	2563.6	2569.5
32.5°	2480.0	2450.7	2438.9	2446.2	2465.3	2482.9	2493.2	2497.6	2504.9	2513.8	2521.1
35°	2378.7	2369.9	2380.2	2396.4	2415.4	2430.1	2438.9	2447.7	2455.1	2462.4	2468.3
37.5°	2303.9	2309.8	2324.4	2345.0	2364.1	2375.8	2383.1	2393.4	2403.7	2412.5	2377.3
40°	2233.5	2248.1	2264.3	2286.3	2302.4	2314.2	2321.5	2334.7	2246.7	1016.9	557.6
42.5°	2171.8	2188.0	2199.7	2217.3	2234.9	2243.7	2179.2	972.9	550.3	547.4	554.7
45°	2097.0	2110.2	2129.3	2142.5	2158.6	1417.6	541.5	547.4	538.6	544.4	547.4
47.5°	2020.7	2041.2	2051.5	1957.6	582.6	538.6	532.7	538.6	532.7	540.0	535.6
50°	1934.1	1959.1	1394.1	526.8	522.4	519.5	525.3	522.4	526.8	532.7	520.9
52.5°	1846.1	1143.1	510.7	507.7	510.7	507.7	518.0	510.7	512.1	506.3	491.6
55°	625.1	494.5	490.1	488.7	497.5	497.5	497.5	485.7	478.4	463.7	453.4
57.5°	478.4	478.4	476.9	478.4	475.5	472.5	459.3	449.0	438.8	418.2	412.4
60°	453.4	453.4	453.4	453.4	440.2	434.4	413.8	405.0	387.4	377.1	371.3
62.5°	432.9	430.0	416.8	412.4	397.7	381.5	369.8	361.0	343.4	337.5	333.1
65°	403.6	393.3	377.1	359.5	352.2	334.6	328.7	315.5	306.7	302.3	299.4
67.5°	355.1	340.4	327.2	315.5	302.3	296.4	289.1	278.8	272.9	270.0	267.1
70°	303.8	293.5	280.3	272.9	264.1	259.7	249.5	246.5	242.1	237.7	233.3
72.5°	253.9	248.0	242.1	231.9	228.9	226.0	215.7	209.8	204.0	198.1	195.2
75°	212.8	208.4	205.4	196.6	192.2	183.4	176.1	171.7	167.3	162.9	160.0
77.5°	174.6	171.7	162.9	157.0	154.1	146.7	143.8	145.3	142.3	136.5	133.5
80°	136.5	133.5	126.2	126.2	123.3	120.3	117.4	114.5	111.5	107.1	104.2
82.5°	104.2	101.3	98.3	95.4	92.4	91.0	89.5	86.6	83.6	80.7	79.2
85°	73.4	71.9	70.4	69.0	67.5	66.0	64.6	61.6	58.7	57.2	55.8
87.5°	49.9	48.4	47.0	45.5	44.0	42.6	41.1	39.6	36.7	35.2	33.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0
2.5°	3461.7	3469.1	3461.7	3445.6	3435.3	3430.9	3439.7	3439.7	3445.6	3452.9	3454.4
5°	3407.4	3389.8	3369.3	3348.7	3338.5	3332.6	3316.4	3319.4	3323.8	3326.7	3329.7
7.5°	3272.4	3248.9	3221.1	3194.7	3184.4	3175.6	3156.5	3156.5	3156.5	3158.0	3166.8
10°	3134.5	3124.2	3112.5	3094.9	3081.7	3077.3	3061.1	3065.5	3062.6	3067.0	3077.3
12.5°	3069.9	3058.2	3047.9	3030.3	3015.6	3009.8	3002.4	3006.8	3005.3	3012.7	3021.5
15°	3011.2	3005.3	2993.6	2980.4	2967.2	2955.5	2929.0	2920.2	2914.4	2907.0	2917.3
17.5°	2914.4	2873.3	2845.4	2824.9	2810.2	2799.9	2792.6	2792.6	2797.0	2801.4	2810.2
20°	2782.3	2770.6	2757.3	2735.3	2720.7	2714.8	2710.4	2710.4	2717.7	2723.6	2739.7
22.5°	2691.3	2689.8	2685.4	2675.2	2667.8	2667.8	2669.3	2672.2	2682.5	2691.3	2707.5
25°	2648.8	2654.6	2651.7	2645.8	2641.4	2642.9	2640.0	2642.9	2653.2	2662.0	2675.2
27.5°	2615.0	2623.8	2620.9	2612.1	2604.7	2607.7	2612.1	2609.1	2617.9	2628.2	2638.5
30°	2569.5	2571.0	2576.9	2566.6	2563.6	2568.0	2569.5	2572.4	2581.3	2588.6	2597.4
32.5°	2518.2	2529.9	2528.4	2518.2	2518.2	2522.6	2524.0	2425.7	2242.3	1931.2	1846.1
35°	2468.3	2481.5	2459.5	2073.5	1435.2	766.0	591.4	570.8	575.2	578.2	581.1
37.5°	1825.5	865.8	551.8	556.2	560.6	565.0	569.4	573.8	578.2	582.6	584.0
40°	548.8	547.4	551.8	557.6	562.0	565.0	570.8	575.2	579.6	584.0	585.5
42.5°	543.0	545.9	550.3	556.2	562.0	567.9	572.3	578.2	581.1	584.0	585.5
45°	540.0	545.9	551.8	556.2	560.6	563.5	566.4	567.9	566.4	566.4	569.4
47.5°	535.6	541.5	543.0	541.5	543.0	541.5	541.5	541.5	537.1	535.6	535.6
50°	519.5	519.5	516.5	510.7	509.2	507.7	504.8	503.3	497.5	496.0	496.0
52.5°	485.7	484.3	479.9	472.5	469.6	466.7	465.2	463.7	457.8	454.9	456.4
55°	446.1	443.2	438.8	430.0	428.5	425.6	424.1	422.6	416.8	419.7	415.3
57.5°	409.4	403.6	397.7	396.2	390.3	388.9	387.4	385.9	381.5	383.0	380.1
60°	365.4	363.9	361.0	355.1	355.1	353.7	353.7	350.7	347.8	346.3	346.3
62.5°	333.1	328.7	325.8	325.8	321.4	321.4	321.4	318.4	315.5	317.0	315.5
65°	297.9	296.4	295.0	292.0	292.0	290.6	290.6	287.6	283.2	284.7	281.8
67.5°	268.5	265.6	262.7	261.2	255.3	252.4	250.9	249.5	243.6	245.1	242.1
70°	231.9	227.5	224.5	221.6	217.2	214.2	214.2	211.3	206.9	208.4	205.4
72.5°	193.7	190.8	187.8	186.4	182.0	180.5	179.0	177.6	173.2	174.6	173.2
75°	161.4	161.4	160.0	158.5	154.1	149.7	146.7	145.3	142.3	143.8	140.9
77.5°	133.5	130.6	127.7	127.7	123.3	120.3	117.4	117.4	117.4	115.9	114.5
80°	104.2	101.3	101.3	99.8	96.9	93.9	92.4	92.4	91.0	91.0	89.5
82.5°	79.2	76.3	74.8	74.8	71.9	70.4	69.0	67.5	67.5	67.5	66.0
85°	55.8	52.8	51.4	51.4	48.4	47.0	47.0	45.5	45.5	44.0	44.0
87.5°	33.8	32.3	30.8	30.8	27.9	26.4	26.4	26.4	24.9	24.9	23.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-64SL-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°	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0
2.5°	3454.4	3454.4	3444.1	3447.1	3442.7	3448.5	3441.2	3441.2	3450.0	3450.0	3455.9
5°	3331.1	3323.8	3322.3	3319.4	3304.7	3310.6	3303.2	3295.9	3306.2	3306.2	3319.4
7.5°	3162.4	3149.2	3155.0	3146.2	3137.4	3124.2	3128.6	3122.7	3130.1	3140.4	3153.6
10°	3075.8	3064.0	3071.4	3062.6	3067.0	3047.9	3049.4	3050.8	3058.2	3061.1	3072.9
12.5°	3020.0	3017.1	3014.2	3011.2	3014.2	3003.9	2998.0	2999.5	3002.4	3003.9	3012.7
15°	2902.6	2883.5	2889.4	2868.9	2870.3	2871.8	2860.1	2871.8	2870.3	2889.4	2907.0
17.5°	2807.2	2807.2	2797.0	2788.2	2782.3	2780.8	2772.0	2777.9	2772.0	2783.8	2788.2
20°	2741.2	2739.7	2738.3	2733.9	2719.2	2720.7	2725.1	2711.9	2710.4	2708.9	2717.7
22.5°	2710.4	2711.9	2706.0	2706.0	2692.8	2695.7	2697.2	2682.5	2684.0	2679.6	2684.0
25°	2678.1	2681.0	2673.7	2673.7	2670.8	2669.3	2662.0	2664.9	2656.1	2648.8	2656.1
27.5°	2640.0	2645.8	2640.0	2642.9	2637.0	2634.1	2629.7	2626.7	2617.9	2616.5	2620.9
30°	2604.7	2607.7	2606.2	2598.9	2597.4	2588.6	2593.0	2584.2	2575.4	2576.9	2579.8
32.5°	1335.4	1275.2	983.2	887.8	879.0	911.3	1080.0	1314.8	1703.7	2080.9	2352.3
35°	582.6	582.6	582.6	581.1	581.1	579.6	578.2	576.7	575.2	573.8	572.3
37.5°	585.5	585.5	585.5	585.5	584.0	582.6	582.6	579.6	578.2	576.7	575.2
40°	587.0	588.4	588.4	588.4	587.0	587.0	585.5	582.6	581.1	578.2	575.2
42.5°	585.5	587.0	587.0	585.5	585.5	584.0	584.0	582.6	581.1	579.6	578.2
45°	566.4	567.9	565.0	565.0	563.5	563.5	563.5	563.5	563.5	565.0	565.0
47.5°	532.7	532.7	531.2	529.8	529.8	528.3	529.8	528.3	531.2	532.7	535.6
50°	493.1	493.1	490.1	488.7	488.7	488.7	488.7	490.1	491.6	494.5	497.5
52.5°	452.0	452.0	450.5	449.0	447.6	447.6	452.0	450.5	452.0	453.4	457.8
55°	412.4	413.8	410.9	410.9	409.4	409.4	409.4	410.9	412.4	413.8	418.2
57.5°	378.6	378.6	375.7	375.7	375.7	374.2	378.6	375.7	377.1	378.6	381.5
60°	344.9	343.4	343.4	341.9	341.9	341.9	344.9	343.4	343.4	344.9	347.8
62.5°	314.0	314.0	312.6	312.6	311.1	311.1	314.0	312.6	312.6	314.0	315.5
65°	278.8	278.8	277.3	275.9	280.3	275.9	280.3	277.3	280.3	281.8	284.7
67.5°	239.2	239.2	239.2	237.7	237.7	240.7	242.1	239.2	240.7	243.6	245.1
70°	204.0	204.0	202.5	202.5	202.5	205.4	206.9	204.0	205.4	206.9	209.8
72.5°	173.2	170.2	170.2	168.8	171.7	171.7	173.2	171.7	173.2	173.2	176.1
75°	142.3	139.4	139.4	139.4	142.3	140.9	142.3	140.9	142.3	142.3	143.8
77.5°	114.5	113.0	111.5	111.5	114.5	114.5	114.5	113.0	114.5	115.9	117.4
80°	89.5	88.0	86.6	86.6	89.5	89.5	89.5	91.0	89.5	91.0	92.4
82.5°	66.0	64.6	63.1	66.0	66.0	66.0	66.0	67.5	66.0	67.5	69.0
85°	44.0	42.6	41.1	44.0	44.0	44.0	44.0	45.5	44.0	45.5	47.0
87.5°	23.5	22.0	22.0	23.5	23.5	23.5	24.9	24.9	24.9	26.4	26.4
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: P#

CATALOG NUMBER: 8SNLED-LD5-64SL-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°	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0
2.5°	3464.7	3469.1	3467.6	3458.8	3450.0	3439.7	3432.4	3433.8	3448.5	3452.9	3439.7
5°	3319.4	3347.3	3347.3	3366.3	3356.1	3347.3	3353.1	3385.4	3401.6	3426.5	3435.3
7.5°	3169.7	3182.9	3181.4	3200.5	3197.6	3197.6	3202.0	3244.5	3265.1	3285.6	3291.5
10°	3086.1	3099.3	3097.8	3099.3	3094.9	3084.6	3084.6	3103.7	3121.3	3131.5	3134.5
12.5°	3025.9	3033.2	3031.8	3031.8	3028.8	3020.0	3018.6	3034.7	3053.8	3067.0	3068.4
15°	2936.4	2956.9	2961.3	2980.4	2976.0	2964.3	2967.2	2980.4	2992.1	3003.9	2999.5
17.5°	2802.8	2813.1	2814.6	2821.9	2819.0	2819.0	2836.6	2885.0	2917.3	2945.2	2948.1
20°	2726.5	2733.9	2730.9	2747.1	2739.7	2738.3	2742.7	2763.2	2777.9	2791.1	2814.6
22.5°	2689.8	2695.7	2691.3	2692.8	2679.6	2667.8	2664.9	2681.0	2697.2	2714.8	2714.8
25°	2659.0	2663.4	2662.0	2659.0	2648.8	2632.6	2629.7	2632.6	2638.5	2640.0	2629.7
27.5°	2622.3	2625.3	2625.3	2626.7	2613.5	2598.9	2595.9	2593.0	2598.9	2597.4	2581.3
30°	2584.2	2579.8	2581.3	2582.7	2571.0	2557.8	2551.9	2550.4	2556.3	2554.8	2538.7
32.5°	2493.2	2527.0	2529.9	2532.8	2522.6	2510.8	2504.9	2500.5	2503.5	2502.0	2487.3
35°	570.8	581.1	711.7	1611.3	2188.0	2422.8	2447.7	2441.8	2443.3	2443.3	2431.6
37.5°	572.3	570.8	569.4	565.0	560.6	557.6	964.1	2055.9	2381.7	2383.1	2372.9
40°	572.3	570.8	569.4	566.4	560.6	556.2	548.8	543.0	556.2	1223.9	2239.3
42.5°	575.2	572.3	569.4	566.4	560.6	554.7	548.8	541.5	545.9	543.0	535.6
45°	566.4	565.0	565.0	563.5	560.6	554.7	547.4	538.6	534.2	538.6	531.2
47.5°	538.6	540.0	544.4	545.9	545.9	547.4	543.0	537.1	529.8	534.2	525.3
50°	500.4	503.3	504.8	512.1	515.1	520.9	522.4	522.4	520.9	526.8	520.9
52.5°	459.3	462.2	469.6	472.5	475.5	484.3	487.2	491.6	494.5	503.3	509.2
55°	419.7	421.2	424.1	430.0	434.4	441.7	446.1	450.5	457.8	462.2	479.9
57.5°	383.0	384.5	390.3	391.8	394.7	400.6	405.0	410.9	416.8	419.7	440.2
60°	347.8	349.3	353.7	355.1	356.6	362.5	366.9	371.3	375.7	378.6	393.3
62.5°	317.0	317.0	321.4	321.4	322.8	327.2	330.2	333.1	337.5	339.0	346.3
65°	286.2	287.6	290.6	290.6	292.0	295.0	296.4	297.9	302.3	302.3	308.2
67.5°	248.0	249.5	253.9	256.8	258.3	264.1	265.6	267.1	270.0	271.5	274.4
70°	211.3	212.8	217.2	218.7	220.1	224.5	227.5	231.9	236.3	240.7	243.6
72.5°	177.6	179.0	183.4	183.4	187.8	189.3	192.2	193.7	198.1	201.0	205.4
75°	145.3	146.7	151.1	151.1	155.6	157.0	158.5	160.0	162.9	165.8	168.8
77.5°	118.9	118.9	124.7	127.7	130.6	130.6	132.1	132.1	132.1	133.5	136.5
80°	93.9	93.9	98.3	101.3	104.2	104.2	105.7	107.1	108.6	108.6	110.1
82.5°	70.4	70.4	74.8	76.3	79.2	79.2	79.2	80.7	82.2	80.7	83.6
85°	48.4	48.4	51.4	52.8	55.8	55.8	55.8	57.2	58.7	57.2	58.7
87.5°	27.9	29.3	30.8	32.3	33.8	35.2	35.2	35.2	36.7	36.7	38.2
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: P#

CATALOG NUMBER: 8SNLED-LD5-64SL-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°	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0
2.5°	3425.0	3407.4	3406.0	3385.4	3379.5	3381.0	3364.9	3359.0	3332.6	3326.7	3298.8
5°	3438.2	3447.1	3442.7	3441.2	3445.6	3442.7	3430.9	3425.0	3420.6	3408.9	3385.4
7.5°	3293.0	3298.8	3303.2	3322.3	3338.5	3366.3	3395.7	3414.8	3429.4	3432.4	3413.3
10°	3144.8	3172.6	3191.7	3221.1	3244.5	3260.7	3278.3	3294.4	3337.0	3379.5	3404.5
12.5°	3068.4	3075.8	3074.3	3090.5	3106.6	3149.2	3190.2	3213.7	3246.0	3265.1	3310.6
15°	3003.9	3005.3	3009.8	3021.5	3030.3	3045.0	3064.0	3099.3	3163.8	3193.2	3218.1
17.5°	2945.2	2945.2	2948.1	2958.4	2970.1	2983.3	2995.1	3009.8	3042.0	3090.5	3152.1
20°	2851.3	2892.4	2896.8	2895.3	2901.2	2926.1	2929.0	2955.5	2971.6	2990.7	3050.8
22.5°	2711.9	2736.8	2772.0	2826.3	2846.9	2858.6	2867.4	2879.1	2904.1	2926.1	2951.1
25°	2635.6	2651.7	2662.0	2678.1	2720.7	2789.6	2802.8	2816.0	2832.2	2848.3	2879.1
27.5°	2568.0	2566.6	2573.9	2588.6	2600.3	2637.0	2701.6	2752.9	2755.9	2779.4	2805.8
30°	2519.6	2510.8	2500.5	2497.6	2513.8	2532.8	2551.9	2632.6	2688.4	2700.1	2728.0
32.5°	2474.1	2459.5	2444.8	2433.0	2422.8	2438.9	2450.7	2485.9	2557.8	2625.3	2640.0
35°	2418.4	2403.7	2386.1	2372.9	2356.7	2355.3	2353.8	2387.6	2411.0	2491.7	2562.2
37.5°	2361.1	2345.0	2330.3	2315.6	2299.5	2287.8	2280.4	2289.2	2311.2	2346.5	2463.9
40°	2301.0	2281.9	2267.2	2255.5	2233.5	2224.7	2210.0	2204.1	2205.6	2236.4	2298.0
42.5°	1375.0	2192.4	2199.7	2186.5	2167.4	2155.7	2139.6	2132.2	2117.5	2132.2	2167.4
45°	529.8	535.6	1603.9	2119.0	2095.5	2080.9	2066.2	2058.8	2042.7	2031.0	2063.2
47.5°	519.5	525.3	513.6	727.9	2000.1	2004.5	1986.9	1979.6	1963.5	1954.7	1945.8
50°	512.1	516.5	507.7	510.7	500.4	1832.9	1906.2	1897.4	1879.8	1869.5	1851.9
52.5°	504.8	504.8	498.9	491.6	488.7	490.1	1542.3	1813.8	1793.2	1783.0	1759.5
55°	481.3	484.3	490.1	478.4	475.5	474.0	469.6	1468.9	1697.8	1686.1	1665.6
57.5°	446.1	452.0	468.1	465.2	465.2	453.4	450.5	450.5	1363.3	1587.8	1567.2
60°	405.0	410.9	428.5	434.4	438.8	435.8	432.9	431.4	425.6	1436.6	1463.1
62.5°	362.5	368.3	374.2	393.3	399.1	406.5	415.3	410.9	405.0	405.0	1353.0
65°	317.0	325.8	328.7	346.3	353.7	366.9	374.2	384.5	381.5	380.1	387.4
67.5°	277.3	287.6	289.1	296.4	309.6	315.5	324.3	343.4	352.2	355.1	358.1
70°	243.6	249.5	253.9	256.8	265.6	267.1	283.2	296.4	309.6	324.3	328.7
72.5°	209.8	214.2	223.1	220.1	223.1	228.9	237.7	246.5	259.7	280.3	293.5
75°	171.7	174.6	180.5	183.4	189.3	193.7	199.6	206.9	218.7	228.9	246.5
77.5°	137.9	139.4	143.8	145.3	151.1	155.6	165.8	170.2	177.6	184.9	195.2
80°	111.5	111.5	113.0	113.0	117.4	121.8	129.1	133.5	142.3	148.2	148.2
82.5°	85.1	85.1	89.5	89.5	92.4	92.4	96.9	96.9	101.3	104.2	107.1
85°	60.2	61.6	64.6	63.1	66.0	64.6	67.5	70.4	71.9	70.4	69.0
87.5°	39.6	39.6	42.6	41.1	42.6	42.6	45.5	45.5	47.0	47.0	45.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-64SL-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°	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0
2.5°	3288.6	3266.6	3253.3	3237.2	3232.8	3228.4	3234.3	3234.3	3225.5	3218.1	3204.9
5°	3364.9	3341.4	3316.4	3290.0	3265.1	3238.7	3228.4	3226.9	3210.8	3202.0	3197.6
7.5°	3404.5	3392.8	3364.9	3328.2	3290.0	3243.1	3222.5	3210.8	3194.7	3191.7	3191.7
10°	3408.9	3395.7	3381.0	3354.6	3310.6	3248.9	3209.3	3185.8	3171.2	3181.4	3200.5
12.5°	3366.3	3391.3	3378.1	3360.5	3325.3	3250.4	3193.2	3158.0	3153.6	3180.0	3229.9
15°	3257.8	3331.1	3367.8	3350.2	3322.3	3247.5	3166.8	3125.7	3125.7	3180.0	3244.5
17.5°	3175.6	3232.8	3322.3	3337.0	3304.7	3241.6	3141.8	3093.4	3106.6	3185.8	3254.8
20°	3108.1	3143.3	3229.9	3312.0	3281.2	3228.4	3105.1	3055.2	3081.7	3177.0	3269.5
22.5°	3002.4	3072.9	3125.7	3247.5	3257.8	3203.5	3068.4	3008.3	3061.1	3177.0	3262.2
25°	2899.7	2984.8	3040.6	3159.4	3222.5	3172.6	3034.7	2958.4	3039.1	3172.6	3256.3
27.5°	2827.8	2867.4	2968.7	3053.8	3169.7	3131.5	2989.2	2904.1	3011.2	3149.2	3222.5
30°	2751.5	2777.9	2877.7	2958.4	3099.3	3084.6	2942.2	2843.9	2976.0	3127.1	3134.5
32.5°	2667.8	2697.2	2748.5	2865.9	3000.9	3040.6	2889.4	2783.8	2937.8	3093.4	3031.8
35°	2582.7	2604.7	2645.8	2772.0	2886.5	2974.5	2824.9	2714.8	2911.4	3042.0	2933.4
37.5°	2497.6	2521.1	2556.3	2662.0	2766.2	2912.9	2769.1	2645.8	2863.0	2951.1	2830.7
40°	2416.9	2430.1	2466.8	2532.8	2666.4	2849.8	2706.0	2573.9	2813.1	2835.1	2691.3
42.5°	2268.7	2334.7	2368.5	2421.3	2553.4	2763.2	2632.6	2497.6	2757.3	2719.2	2551.9
45°	2108.7	2252.5	2267.2	2320.0	2453.6	2670.8	2563.6	2422.8	2704.5	2619.4	2419.8
47.5°	1978.1	2082.3	2167.4	2211.5	2334.7	2562.2	2499.1	2359.7	2625.3	2493.2	2290.7
50°	1862.2	1918.0	2072.0	2104.3	2192.4	2431.6	2422.8	2286.3	2515.2	2334.7	2164.5
52.5°	1749.2	1788.8	1928.2	1997.2	2069.1	2290.7	2331.8	2214.4	2394.9	2176.2	2036.8
55°	1650.9	1664.1	1740.4	1885.7	1950.2	2148.4	2232.0	2130.7	2242.3	2025.1	1913.6
57.5°	1549.6	1537.9	1593.7	1780.0	1827.0	2003.1	2126.3	2045.6	2119.0	1871.0	1785.9
60°	1444.0	1427.8	1451.3	1574.6	1696.4	1859.3	2001.6	1951.7	1969.3	1718.4	1643.6
62.5°	1333.9	1317.8	1310.4	1388.2	1568.7	1711.1	1875.4	1847.5	1785.9	1579.0	1467.5
65°	1219.5	1203.3	1191.6	1222.4	1427.8	1518.8	1734.5	1727.2	1584.9	1432.2	1235.6
67.5°	371.3	1094.7	1069.8	1068.3	1203.3	1344.2	1581.9	1570.2	1382.3	1275.2	1063.9
70°	334.6	887.8	943.6	930.4	989.1	1166.6	1407.3	1398.5	1185.7	1022.8	940.6
72.5°	306.7	314.0	833.5	818.8	832.0	992.0	1225.3	1201.8	1005.2	807.1	813.0
75°	262.7	275.9	287.6	691.2	673.6	821.8	1027.2	990.5	829.1	666.2	679.4
77.5°	214.2	230.4	239.2	503.3	544.4	585.5	820.3	771.9	570.8	532.7	253.9
80°	160.0	173.2	187.8	201.0	413.8	409.4	609.0	560.6	397.7	331.6	198.1
82.5°	117.4	121.8	130.6	145.3	164.4	274.4	391.8	344.9	275.9	151.1	136.5
85°	73.4	79.2	83.6	88.0	99.8	164.4	193.7	154.1	115.9	92.4	86.6
87.5°	47.0	47.0	45.5	47.0	48.4	58.7	66.0	63.1	49.9	47.0	47.0
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: P#

CATALOG NUMBER: 8SNLED-LD5-64SL-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°	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0
2.5°	3190.2	3169.7	3169.7	3163.8	3168.2	3168.2	3166.8	3168.2	3178.5	3184.4	3194.7
5°	3188.8	3182.9	3196.1	3212.3	3231.3	3254.8	3260.7	3281.2	3300.3	3325.3	3351.7
7.5°	3207.9	3228.4	3253.3	3279.8	3317.9	3345.8	3370.7	3395.7	3413.3	3436.8	3451.5
10°	3235.7	3276.8	3319.4	3353.1	3394.2	3417.7	3433.8	3436.8	3411.8	3372.2	3339.9
12.5°	3275.4	3323.8	3363.4	3395.7	3414.8	3406.0	3359.0	3310.6	3282.7	3241.6	3184.4
15°	3309.1	3353.1	3394.2	3381.0	3329.7	3281.2	3244.5	3187.3	3131.5	3093.4	3068.4
17.5°	3323.8	3366.3	3351.7	3282.7	3234.3	3178.5	3103.7	3059.6	3023.0	2993.6	2978.9
20°	3332.6	3325.3	3246.0	3196.1	3102.2	3050.8	3002.4	2961.3	2933.4	2918.8	2915.8
22.5°	3309.1	3219.6	3152.1	3062.6	2993.6	2951.1	2912.9	2879.1	2860.1	2848.3	2841.0
25°	3231.3	3127.1	3027.4	2956.9	2898.2	2861.5	2832.2	2804.3	2780.8	2775.0	2760.3
27.5°	3122.7	3037.6	2905.6	2851.3	2799.9	2782.3	2750.0	2722.1	2701.6	2684.0	2637.0
30°	3033.2	2898.2	2802.8	2752.9	2722.1	2701.6	2664.9	2635.6	2600.3	2535.8	2509.3
32.5°	2923.2	2789.6	2698.7	2670.8	2632.6	2615.0	2573.9	2509.3	2455.1	2428.6	2427.2
35°	2780.8	2670.8	2604.7	2579.8	2549.0	2519.6	2434.5	2375.8	2349.4	2352.3	2374.3
37.5°	2662.0	2563.6	2521.1	2485.9	2450.7	2375.8	2303.9	2276.0	2283.4	2298.0	2308.3
40°	2541.6	2466.8	2418.4	2390.5	2311.2	2237.9	2199.7	2210.0	2223.2	2233.5	2246.7
42.5°	2424.2	2371.4	2323.0	2268.7	2160.1	2120.5	2129.3	2142.5	2154.2	2168.9	2182.1
45°	2312.7	2265.8	2210.0	2086.7	2032.4	2042.7	2055.9	2066.2	2083.8	2094.1	2107.3
47.5°	2207.1	2157.2	2058.8	1950.2	1944.4	1964.9	1976.7	1989.9	2003.1	1976.7	1090.3
50°	2088.2	2036.8	1887.1	1846.1	1859.3	1878.3	1893.0	1906.2	1697.8	675.0	519.5
52.5°	1970.8	1840.2	1744.8	1756.5	1769.8	1791.8	1802.0	1338.3	532.7	507.7	509.2
55°	1840.2	1672.9	1645.0	1659.7	1671.4	1693.4	1122.6	491.6	488.7	487.2	498.9
57.5°	1634.7	1533.5	1545.2	1559.9	1571.6	1109.4	478.4	475.5	476.9	478.4	479.9
60°	1451.3	1429.3	1442.5	1455.7	1030.2	462.2	453.4	454.9	460.8	456.4	444.6
62.5°	1306.0	1323.6	1336.9	1171.0	438.8	434.4	438.8	434.4	424.1	416.8	402.1
65°	1194.5	1212.1	1222.4	412.4	410.9	416.8	412.4	397.7	381.5	361.0	356.6
67.5°	1077.1	1094.7	391.8	381.5	387.4	380.1	362.5	344.9	333.1	315.5	308.2
70°	955.3	409.4	355.1	353.7	343.4	331.6	312.6	295.0	280.3	272.9	265.6
72.5°	689.7	324.3	319.9	308.2	290.6	274.4	258.3	248.0	240.7	236.3	231.9
75°	287.6	281.8	268.5	248.0	230.4	223.1	211.3	204.0	201.0	192.2	189.3
77.5°	240.7	228.9	209.8	195.2	184.9	180.5	171.7	162.9	158.5	157.0	151.1
80°	184.9	168.8	160.0	152.6	149.7	139.4	129.1	124.7	121.8	120.3	115.9
82.5°	126.2	120.3	114.5	104.2	104.2	99.8	95.4	92.4	89.5	89.5	86.6
85°	82.2	77.8	76.3	71.9	71.9	69.0	67.5	66.0	64.6	63.1	61.6
87.5°	47.0	47.0	48.4	47.0	47.0	45.5	44.0	42.6	41.1	41.1	38.2
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: P#

CATALOG NUMBER: 8SNLED-LD5-64SL-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°	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0
2.5°	3207.9	3222.5	3225.5	3275.4	3303.2	3301.8	3293.0	3319.4	3303.2	3294.4	3303.2
5°	3378.1	3395.7	3410.4	3464.7	3483.7	3492.5	3491.1	3505.8	3494.0	3483.7	3483.7
7.5°	3461.7	3467.6	3473.5	3460.3	3451.5	3436.8	3414.8	3382.5	3366.3	3348.7	3326.7
10°	3323.8	3304.7	3312.0	3285.6	3263.6	3247.5	3226.9	3200.5	3178.5	3162.4	3137.4
12.5°	3155.0	3153.6	3156.5	3160.9	3138.9	3125.7	3109.5	3090.5	3074.3	3056.7	3036.2
15°	3052.3	3053.8	3065.5	3061.1	3053.8	3046.4	3028.8	3023.0	3008.3	2989.2	2977.5
17.5°	2978.9	2986.3	2998.0	2992.1	2980.4	2973.1	2959.9	2946.7	2933.4	2918.8	2901.2
20°	2914.4	2921.7	2929.0	2921.7	2899.7	2889.4	2871.8	2830.7	2801.4	2772.0	2745.6
22.5°	2843.9	2848.3	2842.5	2819.0	2763.2	2736.8	2716.3	2704.5	2679.6	2663.4	2647.3
25°	2755.9	2730.9	2692.8	2666.4	2644.4	2632.6	2623.8	2622.3	2619.4	2616.5	2609.1
27.5°	2612.1	2603.3	2582.7	2572.4	2573.9	2578.3	2579.8	2584.2	2579.8	2573.9	2568.0
30°	2504.9	2509.3	2510.8	2513.8	2521.1	2525.5	2527.0	2532.8	2529.9	2525.5	2522.6
32.5°	2437.4	2447.7	2453.6	2462.4	2466.8	2474.1	2474.1	2482.9	2474.1	2472.7	2469.7
35°	2381.7	2390.5	2393.4	2406.6	2411.0	2418.4	2418.4	2425.7	2418.4	2343.5	1850.5
37.5°	2325.9	2334.7	2340.6	2352.3	2353.8	2358.2	2176.2	1592.2	1027.2	795.4	607.5
40°	2259.9	2270.2	2276.0	2280.4	1602.5	1016.9	700.0	569.4	569.4	573.8	578.2
42.5°	2189.4	2196.8	1530.6	890.7	554.7	553.2	557.6	562.0	566.4	572.3	578.2
45°	1721.3	868.7	551.8	538.6	543.0	548.8	554.7	560.6	567.9	573.8	576.7
47.5°	565.0	529.8	537.1	531.2	538.6	545.9	551.8	557.6	559.1	560.6	559.1
50°	522.4	522.4	526.8	526.8	532.7	535.6	535.6	535.6	529.8	528.3	523.9
52.5°	504.8	516.5	510.7	513.6	510.7	506.3	501.9	497.5	488.7	485.7	479.9
55°	496.0	500.4	485.7	481.3	475.5	463.7	457.8	452.0	444.6	441.7	434.4
57.5°	475.5	465.2	449.0	441.7	431.4	419.7	413.8	409.4	402.1	399.1	394.7
60°	437.3	416.8	406.5	397.7	385.9	375.7	371.3	368.3	362.5	361.0	356.6
62.5°	390.3	372.7	363.9	352.2	343.4	337.5	333.1	331.6	325.8	325.8	322.8
65°	339.0	330.2	322.8	311.1	306.7	300.8	299.4	297.9	295.0	293.5	290.6
67.5°	297.9	292.0	281.8	275.9	272.9	268.5	265.6	262.7	256.8	253.9	249.5
70°	261.2	256.8	246.5	242.1	236.3	228.9	224.5	221.6	217.2	214.2	209.8
72.5°	226.0	212.8	205.4	201.0	196.6	189.3	187.8	184.9	180.5	179.0	174.6
75°	182.0	171.7	167.3	164.4	160.0	155.6	155.6	155.6	151.1	149.7	148.2
77.5°	145.3	139.4	136.5	133.5	132.1	129.1	124.7	123.3	118.9	118.9	117.4
80°	111.5	108.6	105.7	104.2	102.7	99.8	96.9	95.4	91.0	91.0	89.5
82.5°	82.2	80.7	79.2	77.8	76.3	74.8	70.4	69.0	66.0	66.0	64.6
85°	58.7	57.2	54.3	52.8	52.8	51.4	47.0	45.5	42.6	42.6	42.6
87.5°	36.7	35.2	33.8	32.3	30.8	29.3	26.4	24.9	24.9	22.0	20.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-64SL-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°	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0
2.5°	3285.6	3310.6	3307.6	3325.3	3329.7	3338.5	3341.4	3342.9	3320.9	3338.5	3339.9
5°	3479.3	3483.7	3486.7	3494.0	3501.3	3502.8	3495.5	3486.7	3489.6	3483.7	3469.1
7.5°	3323.8	3301.8	3297.4	3291.5	3288.6	3285.6	3272.4	3284.2	3271.0	3265.1	3244.5
10°	3133.0	3112.5	3111.0	3111.0	3115.4	3113.9	3111.0	3105.1	3116.9	3109.5	3105.1
12.5°	3033.2	3025.9	3030.3	3027.4	3039.1	3042.0	3039.1	3039.1	3036.2	3030.3	3033.2
15°	2973.1	2967.2	2971.6	2967.2	2976.0	2977.5	2970.1	2974.5	2967.2	2959.9	2956.9
17.5°	2893.8	2880.6	2870.3	2855.7	2857.1	2854.2	2845.4	2845.4	2838.1	2819.0	2820.4
20°	2741.2	2728.0	2722.1	2722.1	2729.5	2732.4	2730.9	2733.9	2726.5	2723.6	2711.9
22.5°	2645.8	2644.4	2647.3	2654.6	2666.4	2682.5	2684.0	2684.0	2684.0	2682.5	2667.8
25°	2612.1	2612.1	2615.0	2625.3	2634.1	2645.8	2648.8	2651.7	2648.8	2648.8	2635.6
27.5°	2573.9	2571.0	2576.9	2587.1	2597.4	2606.2	2613.5	2615.0	2610.6	2610.6	2615.0
30°	2527.0	2525.5	2532.8	2543.1	2551.9	2560.7	2568.0	2573.9	2568.0	2568.0	2563.6
32.5°	2478.5	2478.5	2481.5	2419.8	2243.7	2020.7	2025.1	1896.0	1806.4	1693.4	1843.1
35°	1546.7	1125.5	967.1	818.8	714.7	647.1	645.7	623.7	613.4	606.1	604.6
37.5°	584.0	587.0	592.9	595.8	600.2	603.1	604.6	604.6	604.6	604.6	603.1
40°	582.6	588.4	592.9	597.3	601.7	604.6	604.6	606.1	607.5	607.5	607.5
42.5°	584.0	589.9	595.8	600.2	603.1	604.6	606.1	607.5	607.5	607.5	607.5
45°	582.6	585.5	585.5	587.0	587.0	587.0	588.4	588.4	587.0	585.5	588.4
47.5°	560.6	560.6	556.2	554.7	553.2	550.3	551.8	550.3	548.8	547.4	550.3
50°	522.4	516.5	513.6	510.7	509.2	506.3	507.7	506.3	504.8	501.9	506.3
52.5°	476.9	475.5	469.6	466.7	465.2	466.7	463.7	462.2	460.8	459.3	460.8
55°	432.9	427.0	425.6	422.6	421.2	422.6	421.2	419.7	418.2	416.8	418.2
57.5°	393.3	388.9	387.4	384.5	384.5	384.5	384.5	383.0	381.5	380.1	381.5
60°	355.1	352.2	350.7	350.7	349.3	349.3	349.3	347.8	346.3	346.3	347.8
62.5°	322.8	322.8	318.4	317.0	317.0	318.4	317.0	315.5	314.0	312.6	315.5
65°	289.1	283.2	281.8	278.8	275.9	277.3	275.9	274.4	272.9	271.5	274.4
67.5°	248.0	246.5	240.7	237.7	236.3	237.7	236.3	234.8	233.3	231.9	234.8
70°	208.4	208.4	202.5	201.0	199.6	199.6	198.1	198.1	196.6	195.2	198.1
72.5°	173.2	173.2	171.7	168.8	167.3	165.8	164.4	162.9	162.9	164.4	164.4
75°	143.8	140.9	135.0	136.5	135.0	133.5	133.5	132.1	130.6	133.5	132.1
77.5°	113.0	111.5	107.1	108.6	107.1	105.7	105.7	104.2	102.7	104.2	104.2
80°	85.1	85.1	83.6	82.2	82.2	80.7	79.2	79.2	77.8	79.2	79.2
82.5°	61.6	61.6	60.2	58.7	57.2	57.2	55.8	55.8	55.8	55.8	55.8
85°	39.6	38.2	38.2	35.2	35.2	35.2	33.8	33.8	33.8	33.8	33.8
87.5°	19.1	19.1	17.6	17.6	16.1	14.7	14.7	13.2	13.2	14.7	14.7
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: P#

CATALOG NUMBER: 8SNLED-LD5-64SL-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°	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0
2.5°	3313.5	3332.6	3316.4	3323.8	3325.3	3350.2	3348.7	3354.6	3344.3	3332.6	3316.4
5°	3482.3	3473.5	3461.7	3489.6	3474.9	3492.5	3498.4	3510.2	3510.2	3508.7	3495.5
7.5°	3266.6	3247.5	3262.2	3272.4	3276.8	3265.1	3288.6	3315.0	3337.0	3350.2	3351.7
10°	3097.8	3103.7	3102.2	3106.6	3116.9	3115.4	3130.1	3144.8	3150.6	3159.4	3162.4
12.5°	3018.6	3017.1	3020.0	3030.3	3036.2	3034.7	3049.4	3058.2	3061.1	3062.6	3061.1
15°	2955.5	2945.2	2952.5	2954.0	2958.4	2958.4	2976.0	2989.2	2995.1	2998.0	2995.1
17.5°	2836.6	2811.6	2835.1	2835.1	2851.3	2848.3	2876.2	2898.2	2910.0	2918.8	2918.8
20°	2719.2	2707.5	2716.3	2713.3	2725.1	2723.6	2741.2	2755.9	2766.2	2773.5	2782.3
22.5°	2672.2	2675.2	2662.0	2663.4	2663.4	2662.0	2670.8	2678.1	2681.0	2685.4	2682.5
25°	2641.4	2644.4	2640.0	2632.6	2629.7	2632.6	2637.0	2645.8	2647.3	2644.4	2634.1
27.5°	2610.6	2601.8	2609.1	2595.9	2593.0	2598.9	2604.7	2606.2	2607.7	2607.7	2598.9
30°	2563.6	2556.3	2563.6	2557.8	2551.9	2557.8	2562.2	2562.2	2565.1	2566.6	2556.3
32.5°	1791.8	1806.4	2044.2	2188.0	2390.5	2493.2	2512.3	2512.3	2515.2	2515.2	2506.4
35°	610.5	611.9	661.8	717.6	836.4	983.2	1175.4	1275.2	1612.7	2016.3	2406.6
37.5°	603.1	601.7	600.2	598.7	597.3	595.8	592.9	591.4	600.2	711.7	965.6
40°	606.1	604.6	601.7	600.2	598.7	595.8	594.3	591.4	588.4	585.5	582.6
42.5°	606.1	604.6	603.1	601.7	600.2	598.7	595.8	592.9	589.9	585.5	581.1
45°	585.5	585.5	587.0	587.0	588.4	588.4	588.4	587.0	587.0	585.5	579.6
47.5°	547.4	547.4	551.8	551.8	554.7	557.6	557.6	560.6	565.0	567.9	569.4
50°	503.3	503.3	507.7	509.2	512.1	516.5	520.9	522.4	526.8	532.7	538.6
52.5°	459.3	459.3	463.7	463.7	466.7	471.1	475.5	476.9	482.8	488.7	496.0
55°	418.2	418.2	421.2	422.6	424.1	427.0	431.4	431.4	437.3	441.7	449.0
57.5°	381.5	384.5	384.5	384.5	385.9	388.9	391.8	391.8	396.2	400.6	406.5
60°	346.3	349.3	349.3	349.3	350.7	352.2	355.1	355.1	358.1	361.0	366.9
62.5°	314.0	317.0	317.0	318.4	318.4	319.9	322.8	321.4	324.3	325.8	330.2
65°	272.9	275.9	277.3	278.8	280.3	283.2	287.6	286.2	290.6	293.5	297.9
67.5°	233.3	236.3	236.3	237.7	239.2	242.1	245.1	245.1	249.5	252.4	258.3
70°	196.6	199.6	199.6	201.0	202.5	205.4	208.4	206.9	211.3	214.2	218.7
72.5°	162.9	165.8	165.8	167.3	167.3	170.2	173.2	176.1	176.1	179.0	182.0
75°	132.1	133.5	135.0	135.0	136.5	137.9	140.9	143.8	145.3	146.7	149.7
77.5°	104.2	105.7	107.1	107.1	108.6	110.1	111.5	117.4	120.3	121.8	121.8
80°	79.2	80.7	80.7	80.7	82.2	83.6	86.6	86.6	92.4	92.4	93.9
82.5°	55.8	57.2	57.2	57.2	58.7	61.6	63.1	64.6	67.5	69.0	69.0
85°	33.8	35.2	35.2	35.2	36.7	38.2	41.1	42.6	44.0	44.0	45.5
87.5°	13.2	14.7	16.1	16.1	17.6	19.1	20.5	22.0	23.5	23.5	24.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-64SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0
2.5°	3298.8	3309.1	3298.8	3304.7	3312.0	3298.8	3268.0	3256.3	3251.9	3234.3	3222.5
5°	3482.3	3482.3	3477.9	3489.6	3488.1	3467.6	3435.3	3420.6	3406.0	3386.9	3372.2
7.5°	3351.7	3363.4	3370.7	3416.2	3445.6	3448.5	3469.1	3473.5	3479.3	3473.5	3464.7
10°	3163.8	3159.4	3180.0	3222.5	3247.5	3260.7	3300.3	3319.4	3335.5	3367.8	3401.6
12.5°	3058.2	3064.0	3072.9	3103.7	3127.1	3121.3	3137.4	3150.6	3169.7	3202.0	3250.4
15°	2987.7	2993.6	3002.4	3025.9	3040.6	3033.2	3042.0	3050.8	3064.0	3080.2	3109.5
17.5°	2911.4	2921.7	2932.0	2956.9	2970.1	2968.7	2976.0	2978.9	2983.3	2993.6	3014.2
20°	2792.6	2824.9	2845.4	2879.1	2898.2	2895.3	2908.5	2912.9	2918.8	2929.0	2937.8
22.5°	2684.0	2692.8	2703.1	2739.7	2772.0	2811.6	2820.4	2832.2	2846.9	2857.1	2865.9
25°	2622.3	2616.5	2620.9	2645.8	2663.4	2666.4	2679.6	2717.7	2757.3	2775.0	2795.5
27.5°	2585.7	2579.8	2578.3	2590.1	2593.0	2585.7	2582.7	2594.5	2623.8	2653.2	2714.8
30°	2546.0	2538.7	2532.8	2543.1	2547.5	2537.2	2518.2	2507.9	2525.5	2532.8	2557.8
32.5°	2499.1	2491.7	2488.8	2494.7	2497.6	2488.8	2468.3	2456.5	2453.6	2447.7	2453.6
35°	2446.2	2438.9	2434.5	2436.0	2441.8	2434.5	2416.9	2402.2	2394.9	2378.7	2367.0
37.5°	1260.5	1785.9	2318.6	2374.3	2380.2	2378.7	2361.1	2345.0	2337.7	2318.6	2312.7
40°	576.7	644.2	967.1	1263.5	1822.6	2315.6	2299.5	2283.4	2270.2	2264.3	2242.3
42.5°	575.2	576.7	578.2	570.8	707.3	1204.8	1778.6	2220.3	2211.5	2196.8	2180.6
45°	575.2	567.9	573.8	565.0	567.9	566.4	705.8	1138.7	2026.6	2117.5	2110.2
47.5°	569.4	565.0	570.8	563.5	554.7	559.1	553.2	560.6	874.6	1483.6	2032.4
50°	543.0	545.9	556.2	554.7	547.4	553.2	543.0	551.8	544.4	597.3	1150.5
52.5°	503.3	509.2	519.5	528.3	531.2	538.6	535.6	538.6	532.7	534.2	535.6
55°	456.4	463.7	472.5	485.7	491.6	503.3	512.1	516.5	523.9	522.4	510.7
57.5°	412.4	419.7	427.0	440.2	453.4	459.3	475.5	484.3	503.3	498.9	496.0
60°	371.3	377.1	384.5	387.4	403.6	413.8	428.5	437.3	462.2	468.1	476.9
62.5°	334.6	337.5	343.4	347.8	358.1	368.3	375.7	390.3	403.6	422.6	435.8
65°	300.8	303.8	308.2	311.1	312.6	327.2	331.6	347.8	352.2	372.7	384.5
67.5°	262.7	268.5	274.4	277.3	280.3	289.1	292.0	299.4	309.6	318.4	333.1
70°	223.1	227.5	233.3	237.7	243.6	249.5	258.3	262.7	270.0	275.9	287.6
72.5°	186.4	190.8	193.7	198.1	202.5	206.9	214.2	224.5	230.4	240.7	243.6
75°	151.1	155.6	158.5	161.4	165.8	168.8	171.7	182.0	187.8	196.6	205.4
77.5°	124.7	124.7	127.7	136.5	135.0	135.0	137.9	143.8	148.2	154.1	162.9
80°	96.9	98.3	99.8	107.1	108.6	110.1	108.6	113.0	117.4	118.9	124.7
82.5°	71.9	73.4	73.4	77.8	82.2	82.2	82.2	83.6	88.0	89.5	92.4
85°	48.4	49.9	51.4	52.8	55.8	57.2	58.7	58.7	61.6	63.1	64.6
87.5°	26.4	29.3	30.8	32.3	33.8	35.2	36.7	38.2	39.6	41.1	42.6
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: P#

CATALOG NUMBER: 8SNLED-LD5-64SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0	3202.0
2.5°	3218.1	3210.8	3206.4	3194.7	3191.7	3172.6	3175.6	3172.6	3172.6	3177.0	3191.7
5°	3356.1	3320.9	3312.0	3287.1	3266.6	3231.3	3209.3	3197.6	3180.0	3172.6	3182.9
7.5°	3450.0	3423.6	3401.6	3379.5	3350.2	3309.1	3278.3	3243.1	3213.7	3185.8	3178.5
10°	3433.8	3463.2	3463.2	3450.0	3422.1	3381.0	3344.3	3300.3	3248.9	3204.9	3178.5
12.5°	3297.4	3348.7	3389.8	3420.6	3448.5	3420.6	3384.0	3348.7	3291.5	3226.9	3178.5
15°	3147.7	3200.5	3251.9	3316.4	3384.0	3411.8	3410.4	3369.3	3317.9	3250.4	3182.9
17.5°	3042.0	3078.7	3106.6	3177.0	3259.2	3331.1	3379.5	3382.5	3332.6	3272.4	3184.4
20°	2962.8	2989.2	3012.7	3052.3	3124.2	3212.3	3301.8	3351.7	3342.9	3276.8	3188.8
22.5°	2890.9	2910.0	2929.0	2958.4	3015.6	3072.9	3177.0	3279.8	3323.8	3269.5	3184.4
25°	2819.0	2839.5	2854.2	2874.7	2920.2	2967.2	3040.6	3168.2	3266.6	3263.6	3175.6
27.5°	2733.9	2761.8	2779.4	2807.2	2838.1	2873.3	2923.2	3043.5	3184.4	3234.3	3152.1
30°	2631.1	2672.2	2698.7	2729.5	2755.9	2786.7	2826.3	2899.7	3074.3	3177.0	3127.1
32.5°	2482.9	2556.3	2615.0	2644.4	2673.7	2700.1	2735.3	2797.0	2939.3	3099.3	3099.3
35°	2377.3	2411.0	2463.9	2549.0	2585.7	2612.1	2644.4	2692.8	2783.8	3006.8	3053.8
37.5°	2295.1	2308.3	2334.7	2418.4	2487.3	2529.9	2562.2	2593.0	2682.5	2880.6	2995.1
40°	2233.5	2229.1	2226.1	2265.8	2364.1	2431.6	2468.3	2499.1	2568.0	2729.5	2917.3
42.5°	2161.6	2157.2	2142.5	2152.8	2201.2	2314.2	2369.9	2403.7	2460.9	2571.0	2832.2
45°	2086.7	2079.4	2073.5	2063.2	2080.9	2144.0	2258.4	2308.3	2340.6	2438.9	2725.1
47.5°	2010.4	2000.1	1992.8	1984.0	1973.7	2003.1	2111.7	2201.2	2256.9	2318.6	2595.9
50°	1901.8	1915.0	1906.2	1896.0	1887.1	1881.3	1926.8	2073.5	2142.5	2192.4	2438.9
52.5°	896.6	1743.3	1816.7	1806.4	1794.7	1784.4	1794.7	1906.2	2031.0	2070.6	2249.6
55°	510.7	776.3	1615.7	1708.1	1697.8	1683.2	1674.4	1712.5	1898.9	1951.7	2076.4
57.5°	491.6	493.1	713.2	1539.4	1596.6	1583.4	1573.1	1581.9	1740.4	1829.9	1925.3
60°	475.5	475.5	475.5	680.9	1471.9	1476.3	1463.1	1448.4	1517.3	1693.4	1772.7
62.5°	440.2	449.0	453.4	453.4	672.1	1363.3	1350.1	1345.7	1348.6	1529.1	1620.1
65°	394.7	415.3	424.1	430.0	430.0	705.8	1234.1	1226.8	1216.5	1285.5	1466.0
67.5°	344.9	365.4	384.5	396.2	397.7	410.9	736.7	1105.0	1090.3	1091.8	1301.6
70°	293.5	311.1	331.6	349.3	365.4	372.7	384.5	917.2	965.6	945.0	1115.3
72.5°	253.9	261.2	275.9	293.5	312.6	330.2	340.4	365.4	837.9	815.9	848.2
75°	211.3	217.2	227.5	239.2	253.9	274.4	292.0	309.6	444.6	683.8	679.4
77.5°	164.4	174.6	186.4	193.7	201.0	215.7	239.2	256.8	274.4	462.2	544.4
80°	126.2	133.5	139.4	146.7	155.6	165.8	174.6	195.2	215.7	231.9	416.8
82.5°	93.9	98.3	102.7	105.7	108.6	114.5	130.6	137.9	151.1	165.8	196.6
85°	66.0	69.0	71.9	73.4	74.8	76.3	82.2	83.6	96.9	99.8	118.9
87.5°	42.6	44.0	47.0	48.4	48.4	49.9	51.4	51.4	51.4	48.4	58.7
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: P#

CATALOG NUMBER: 8SNLED-LD5-64SL-RW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	3202.0	3202.0
2.5°	3203.5	3226.9
5°	3199.1	3229.9
7.5°	3187.3	3216.7
10°	3169.7	3204.9
12.5°	3150.6	3184.4
15°	3134.5	3159.4
17.5°	3116.9	3131.5
20°	3093.4	3105.1
22.5°	3069.9	3064.0
25°	3043.5	3030.3
27.5°	3009.8	2984.8
30°	2978.9	2934.9
32.5°	2949.6	2877.7
35°	2910.0	2819.0
37.5°	2868.9	2758.8
40°	2820.4	2689.8
42.5°	2769.1	2620.9
45°	2704.5	2554.8
47.5°	2647.3	2475.6
50°	2568.0	2390.5
52.5°	2471.2	2311.2
55°	2356.7	2214.4
57.5°	2233.5	2113.1
60°	2101.4	1997.2
62.5°	1941.4	1876.9
65°	1753.6	1738.9
67.5°	1508.5	1586.3
70°	1237.1	1411.7
72.5°	1034.6	1226.8
75°	848.2	1019.9
77.5°	672.1	799.8
80°	419.7	585.5
82.5°	281.8	384.5
85°	170.2	183.4
87.5°	66.0	67.5
90°	0.0	0.0

(END OF REPORT)