

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: P1213847

Luminaire Tested: 4SNLED-LD5-62SL-RW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213847
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-LD5-62SL-RW-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

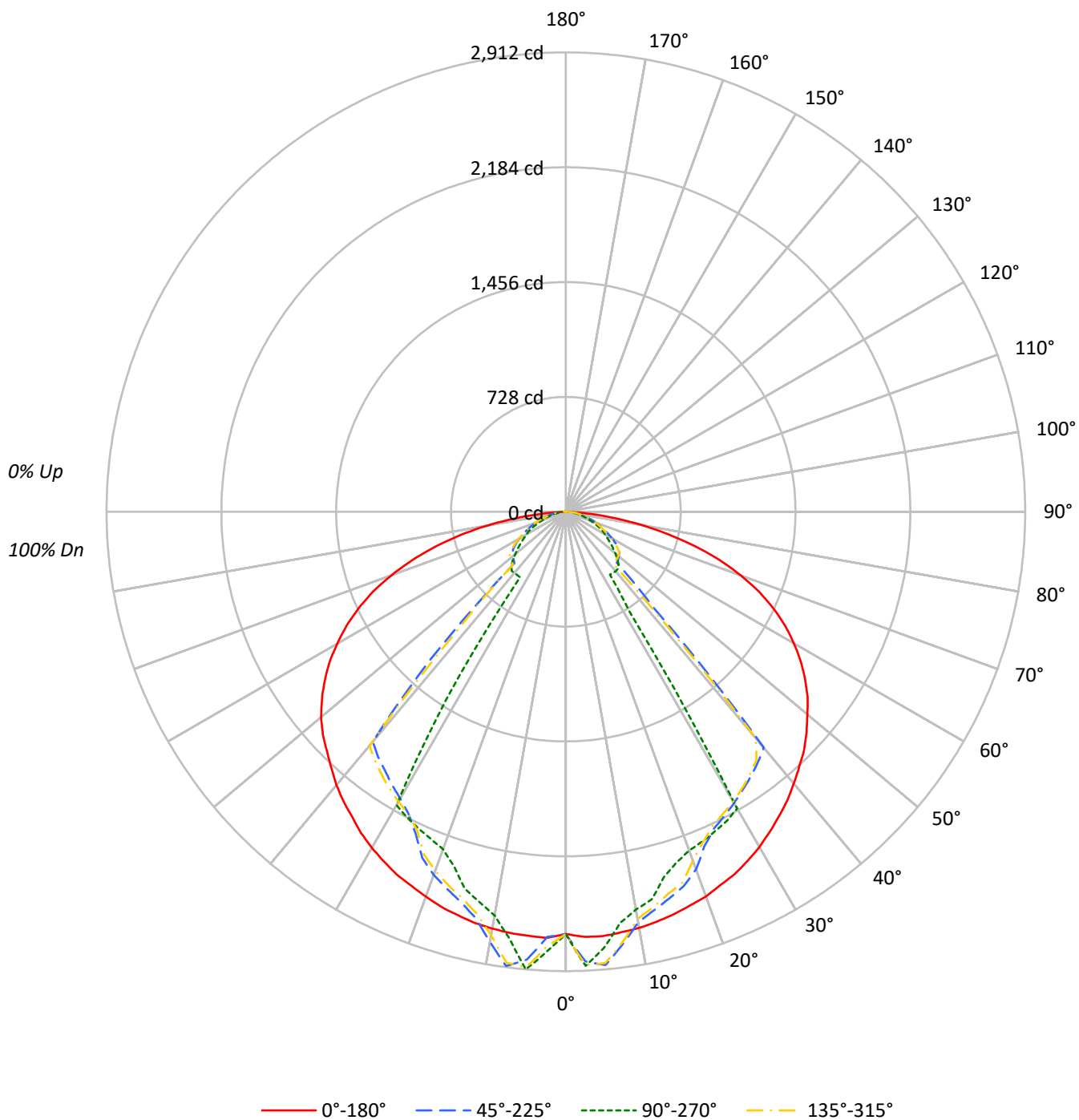
Lumens per Lamp: N/A
Luminaire Lumens: 5360.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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°	21630	21630	21630	21630
5°	21842	21793	21832	22872
10°	21863	19703	21894	20006
15°	21912	18230	21963	18808
20°	22071	17290	22071	17225
25°	22262	16960	22294	16802
30°	22487	16661	22543	16463
35°	22749	3795	22797	3957
40°	23113	3946	23252	4074
45°	23668	3924	23749	4067
50°	24220	3548	24548	3644
55°	24966	3151	25164	3195
60°	25597	2799	25654	2835
65°	26049	2443	25985	2404
70°	25678	1969	25597	1898
75°	23840	1515	24011	1451
80°	19350	1077	20125	985
85°	10473	645	11061	494

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 26228 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.4	4.9
10°-20°	724.1	13.5
20°-30°	1072.5	20.0
30°-40°	1080.6	20.2
40°-50°	844.1	15.7
50°-60°	652.0	12.2
60°-70°	437.8	8.2
70°-80°	223.3	4.2
80°-90°	62.1	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°	2059.9	38.4
0°-40°	3140.6	58.6
0°-60°	4636.8	86.5
0°-90°	5360.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5360.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2677	2677	2677	2677	2677	
5°	2700	2775	2699	2912	2700	257
15°	2641	2398	2647	2474	2641	747
25°	2533	2235	2537	2214	2533	1168
35°	2356	486	2361	507	2356	1477
45°	2136	472	2143	490	2136	1647
55°	1851	344	1866	348	1851	1653
65°	1454	231	1450	227	1454	1430
75°	853	116	859	112	853	892
85°	153	37	162	28	153	211
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°	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6
2.5°	2697.5	2707.3	2714.7	2719.6	2722.0	2722.0	2723.3	2724.5	2740.4	2747.8	2752.7
5°	2700.0	2709.8	2724.5	2744.1	2761.3	2776.0	2788.3	2805.4	2822.6	2841.0	2847.2
7.5°	2688.9	2701.2	2730.6	2766.2	2799.3	2822.6	2838.6	2849.6	2858.2	2859.4	2865.6
10°	2679.1	2701.2	2741.7	2788.3	2830.0	2858.2	2858.2	2852.1	2860.7	2827.5	2794.4
12.5°	2661.9	2686.5	2741.7	2803.0	2842.2	2853.3	2848.4	2823.8	2773.6	2733.1	2714.7
15°	2641.1	2674.2	2742.9	2811.6	2844.7	2848.4	2801.8	2739.2	2701.2	2676.6	2646.0
17.5°	2617.8	2661.9	2744.1	2812.8	2825.1	2807.9	2719.6	2680.3	2641.1	2583.4	2541.7
20°	2595.7	2638.6	2734.3	2795.6	2803.0	2725.7	2657.0	2615.3	2549.1	2498.8	2480.4
22.5°	2561.3	2611.6	2725.7	2772.3	2744.1	2654.6	2588.3	2522.1	2462.0	2447.3	2425.2
25°	2533.1	2585.9	2706.1	2744.1	2669.3	2589.6	2512.3	2435.0	2406.8	2385.9	2366.3
27.5°	2495.1	2560.1	2680.3	2692.6	2589.6	2519.6	2406.8	2372.4	2346.7	2323.4	2314.8
30°	2453.4	2533.1	2644.8	2621.4	2523.3	2420.3	2336.9	2305.0	2286.6	2262.0	2252.2
32.5°	2405.5	2492.6	2605.5	2539.3	2452.2	2323.4	2269.4	2244.8	2220.3	2201.9	2140.6
35°	2356.5	2457.1	2558.9	2460.7	2366.3	2249.8	2201.9	2179.8	2156.5	2089.1	2025.3
37.5°	2306.2	2417.8	2502.5	2376.1	2252.2	2173.7	2133.2	2108.7	2055.9	1970.1	1938.2
40°	2248.5	2370.0	2430.1	2289.0	2152.8	2096.4	2058.4	2033.9	1914.9	1876.8	1867.0
42.5°	2190.9	2323.4	2341.8	2204.4	2070.7	2014.2	1982.3	1901.4	1820.4	1800.8	1804.5
45°	2135.7	2273.1	2244.8	2084.2	1984.8	1938.2	1884.2	1772.6	1729.6	1739.5	1741.9
47.5°	2069.4	2213.0	2143.0	1963.9	1896.5	1849.9	1729.6	1662.2	1656.0	1669.5	1676.9
50°	1998.3	2145.5	2035.1	1854.8	1800.8	1745.6	1609.4	1575.1	1582.4	1595.9	1604.5
52.5°	1932.0	2069.4	1923.5	1752.9	1706.3	1580.0	1488.0	1494.1	1506.4	1522.3	1527.2
55°	1851.1	1977.4	1804.5	1649.9	1605.7	1440.1	1398.4	1413.2	1425.4	1438.9	1448.7
57.5°	1766.4	1871.9	1663.4	1534.6	1463.4	1316.2	1319.9	1329.7	1338.3	1354.3	559.4
60°	1669.5	1751.7	1508.8	1427.9	1286.8	1218.1	1221.8	1239.0	1247.5	696.8	385.2
62.5°	1568.9	1611.9	1369.0	1306.4	1124.9	1120.0	1137.1	1144.5	779.0	368.0	360.6
65°	1453.6	1445.0	1231.6	1132.2	1014.5	1019.4	1037.8	1001.0	344.7	344.7	342.2
67.5°	1326.1	1274.5	1097.9	937.2	907.8	918.8	938.4	327.5	318.9	321.4	312.8
70°	1180.1	1107.7	959.3	793.7	803.5	814.5	316.5	296.9	293.2	287.0	269.9
72.5°	1025.5	926.2	785.1	689.4	695.5	436.7	277.2	267.4	255.2	242.9	224.5
75°	852.6	723.7	576.5	576.5	585.1	249.0	241.7	225.7	212.2	196.3	185.2
77.5°	668.5	556.9	447.7	464.9	226.9	208.5	195.0	177.9	166.8	157.0	150.9
80°	489.5	388.9	337.3	301.8	176.6	158.2	144.7	134.9	130.0	123.9	116.5
82.5°	321.4	234.3	234.3	142.3	123.9	109.2	105.5	98.1	93.2	89.5	85.9
85°	153.3	136.2	103.0	87.1	77.3	69.9	67.5	63.8	63.8	62.6	61.3
87.5°	56.4	61.3	45.4	44.2	41.7	40.5	41.7	41.7	42.9	41.7	40.5
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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6
2.5°	2765.0	2774.8	2782.1	2794.4	2810.4	2823.8	2836.1	2853.3	2880.3	2887.6	2893.8
5°	2847.2	2850.8	2859.4	2869.2	2871.7	2877.8	2876.6	2884.0	2887.6	2896.2	2877.8
7.5°	2852.1	2832.4	2809.1	2788.3	2773.6	2760.1	2751.5	2765.0	2772.3	2778.5	2760.1
10°	2749.0	2725.7	2712.2	2700.0	2685.2	2664.4	2636.2	2642.3	2639.8	2639.8	2633.7
12.5°	2684.0	2650.9	2616.5	2585.9	2572.4	2571.2	2572.4	2585.9	2585.9	2584.6	2577.3
15°	2582.2	2550.3	2533.1	2525.8	2525.8	2522.1	2522.1	2536.8	2533.1	2533.1	2529.4
17.5°	2514.7	2492.6	2480.4	2471.8	2468.1	2474.2	2481.6	2487.7	2489.0	2484.1	2464.4
20°	2459.5	2438.7	2423.9	2426.4	2425.2	2428.9	2432.5	2411.7	2385.9	2351.6	2335.6
22.5°	2401.9	2385.9	2374.9	2374.9	2360.2	2336.9	2302.5	2295.1	2291.5	2275.5	2262.0
25°	2346.7	2328.3	2312.3	2263.3	2232.6	2236.3	2230.1	2217.9	2216.6	2215.4	2220.3
27.5°	2291.5	2243.6	2182.3	2174.9	2162.7	2161.4	2168.8	2174.9	2174.9	2179.8	2186.0
30°	2177.4	2122.2	2111.1	2097.6	2102.6	2119.7	2123.4	2132.0	2134.4	2143.0	2147.9
32.5°	2073.1	2048.6	2038.8	2044.9	2060.8	2075.6	2084.2	2087.8	2094.0	2101.3	2107.5
35°	1988.5	1981.1	1989.7	2003.2	2019.1	2031.4	2038.8	2046.1	2052.3	2058.4	2063.3
37.5°	1925.9	1930.8	1943.1	1960.3	1976.2	1986.0	1992.2	2000.7	2009.3	2016.7	1987.2
40°	1867.0	1879.3	1892.8	1911.2	1924.7	1934.5	1940.6	1951.7	1878.1	850.1	466.1
42.5°	1815.5	1829.0	1838.8	1853.5	1868.3	1875.6	1821.6	813.3	460.0	457.6	463.7
45°	1752.9	1764.0	1779.9	1791.0	1804.5	1185.0	452.7	457.6	450.2	455.1	457.6
47.5°	1689.2	1706.3	1714.9	1636.4	487.0	450.2	445.3	450.2	445.3	451.4	447.7
50°	1616.8	1637.6	1165.4	440.4	436.7	434.2	439.2	436.7	440.4	445.3	435.5
52.5°	1543.2	955.6	426.9	424.4	426.9	424.4	433.0	426.9	428.1	423.2	410.9
55°	522.6	413.4	409.7	408.5	415.8	415.8	415.8	406.0	399.9	387.6	379.0
57.5°	399.9	399.9	398.7	399.9	397.4	395.0	384.0	375.4	366.8	349.6	344.7
60°	379.0	379.0	379.0	379.0	368.0	363.1	345.9	338.6	323.8	315.3	310.4
62.5°	361.9	359.4	348.4	344.7	332.4	318.9	309.1	301.8	287.0	282.1	278.5
65°	337.3	328.8	315.3	300.5	294.4	279.7	274.8	263.7	256.4	252.7	250.2
67.5°	296.9	284.6	273.6	263.7	252.7	247.8	241.7	233.1	228.2	225.7	223.3
70°	253.9	245.3	234.3	228.2	220.8	217.1	208.5	206.1	202.4	198.7	195.0
72.5°	212.2	207.3	202.4	193.8	191.4	188.9	180.3	175.4	170.5	165.6	163.2
75°	177.9	174.2	171.7	164.4	160.7	153.3	147.2	143.5	139.8	136.2	133.7
77.5°	146.0	143.5	136.2	131.3	128.8	122.7	120.2	121.4	119.0	114.1	111.6
80°	114.1	111.6	105.5	105.5	103.0	100.6	98.1	95.7	93.2	89.5	87.1
82.5°	87.1	84.6	82.2	79.7	77.3	76.1	74.8	72.4	69.9	67.5	66.2
85°	61.3	60.1	58.9	57.7	56.4	55.2	54.0	51.5	49.1	47.8	46.6
87.5°	41.7	40.5	39.3	38.0	36.8	35.6	34.3	33.1	30.7	29.4	28.2
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):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6
2.5°	2893.8	2899.9	2893.8	2880.3	2871.7	2868.0	2875.4	2875.4	2880.3	2886.4	2887.6
5°	2848.4	2833.7	2816.5	2799.3	2790.7	2785.8	2772.3	2774.8	2778.5	2780.9	2783.4
7.5°	2735.5	2715.9	2692.6	2670.5	2661.9	2654.6	2638.6	2638.6	2638.6	2639.8	2647.2
10°	2620.2	2611.6	2601.8	2587.1	2576.1	2572.4	2558.9	2562.6	2560.1	2563.8	2572.4
12.5°	2566.2	2556.4	2547.8	2533.1	2520.9	2515.9	2509.8	2513.5	2512.3	2518.4	2525.8
15°	2517.2	2512.3	2502.5	2491.4	2480.4	2470.6	2448.5	2441.1	2436.2	2430.1	2438.7
17.5°	2436.2	2401.9	2378.6	2361.4	2349.1	2340.5	2334.4	2334.4	2338.1	2341.8	2349.1
20°	2325.8	2316.0	2305.0	2286.6	2274.3	2269.4	2265.7	2265.7	2271.8	2276.7	2290.2
22.5°	2249.8	2248.5	2244.8	2236.3	2230.1	2230.1	2231.4	2233.8	2242.4	2249.8	2263.3
25°	2214.2	2219.1	2216.6	2211.7	2208.0	2209.3	2206.8	2209.3	2217.9	2225.2	2236.3
27.5°	2186.0	2193.3	2190.9	2183.5	2177.4	2179.8	2183.5	2181.1	2188.4	2197.0	2205.6
30°	2147.9	2149.2	2154.1	2145.5	2143.0	2146.7	2147.9	2150.4	2157.8	2163.9	2171.2
32.5°	2105.0	2114.8	2113.6	2105.0	2105.0	2108.7	2109.9	2027.7	1874.4	1614.3	1543.2
35°	2063.3	2074.3	2055.9	1733.3	1199.7	640.3	494.4	477.2	480.9	483.3	485.8
37.5°	1526.0	723.7	461.2	464.9	468.6	472.3	476.0	479.6	483.3	487.0	488.2
40°	458.8	457.6	461.2	466.1	469.8	472.3	477.2	480.9	484.5	488.2	489.5
42.5°	453.9	456.3	460.0	464.9	469.8	474.7	478.4	483.3	485.8	488.2	489.5
45°	451.4	456.3	461.2	464.9	468.6	471.1	473.5	474.7	473.5	473.5	476.0
47.5°	447.7	452.7	453.9	452.7	453.9	452.7	452.7	452.7	449.0	447.7	447.7
50°	434.2	434.2	431.8	426.9	425.7	424.4	422.0	420.8	415.8	414.6	414.6
52.5°	406.0	404.8	401.1	395.0	392.5	390.1	388.9	387.6	382.7	380.3	381.5
55°	372.9	370.5	366.8	359.4	358.2	355.7	354.5	353.3	348.4	350.8	347.2
57.5°	342.2	337.3	332.4	331.2	326.3	325.1	323.8	322.6	318.9	320.2	317.7
60°	305.4	304.2	301.8	296.9	296.9	295.6	295.6	293.2	290.7	289.5	289.5
62.5°	278.5	274.8	272.3	272.3	268.6	268.6	268.6	266.2	263.7	265.0	263.7
65°	249.0	247.8	246.6	244.1	244.1	242.9	242.9	240.4	236.8	238.0	235.5
67.5°	224.5	222.0	219.6	218.4	213.4	211.0	209.8	208.5	203.6	204.9	202.4
70°	193.8	190.1	187.7	185.2	181.6	179.1	179.1	176.6	173.0	174.2	171.7
72.5°	161.9	159.5	157.0	155.8	152.1	150.9	149.7	148.4	144.7	146.0	144.7
75°	134.9	134.9	133.7	132.5	128.8	125.1	122.7	121.4	119.0	120.2	117.8
77.5°	111.6	109.2	106.7	106.7	103.0	100.6	98.1	98.1	98.1	96.9	95.7
80°	87.1	84.6	84.6	83.4	81.0	78.5	77.3	77.3	76.1	76.1	74.8
82.5°	66.2	63.8	62.6	62.6	60.1	58.9	57.7	56.4	56.4	56.4	55.2
85°	46.6	44.2	42.9	42.9	40.5	39.3	39.3	38.0	38.0	36.8	36.8
87.5°	28.2	27.0	25.8	25.8	23.3	22.1	22.1	22.1	20.9	20.9	19.6
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: P1213847

CATALOG NUMBER: 4SNLED-LD5-62SL-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°	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6
2.5°	2887.6	2887.6	2879.1	2881.5	2877.8	2882.7	2876.6	2876.6	2884.0	2884.0	2888.9
5°	2784.6	2778.5	2777.2	2774.8	2762.5	2767.4	2761.3	2755.2	2763.7	2763.7	2774.8
7.5°	2643.5	2632.5	2637.4	2630.0	2622.7	2611.6	2615.3	2610.4	2616.5	2625.1	2636.2
10°	2571.2	2561.3	2567.5	2560.1	2563.8	2547.8	2549.1	2550.3	2556.4	2558.9	2568.7
12.5°	2524.5	2522.1	2519.6	2517.2	2519.6	2511.0	2506.1	2507.4	2509.8	2511.0	2518.4
15°	2426.4	2410.5	2415.4	2398.2	2399.4	2400.6	2390.8	2400.6	2399.4	2415.4	2430.1
17.5°	2346.7	2346.7	2338.1	2330.7	2325.8	2324.6	2317.2	2322.1	2317.2	2327.0	2330.7
20°	2291.5	2290.2	2289.0	2285.3	2273.1	2274.3	2278.0	2266.9	2265.7	2264.5	2271.8
22.5°	2265.7	2266.9	2262.0	2262.0	2251.0	2253.4	2254.7	2242.4	2243.6	2239.9	2243.6
25°	2238.7	2241.2	2235.0	2235.0	2232.6	2231.4	2225.2	2227.7	2220.3	2214.2	2220.3
27.5°	2206.8	2211.7	2206.8	2209.3	2204.4	2201.9	2198.2	2195.8	2188.4	2187.2	2190.9
30°	2177.4	2179.8	2178.6	2172.5	2171.2	2163.9	2167.6	2160.2	2152.8	2154.1	2156.5
32.5°	1116.3	1066.0	821.9	742.1	734.8	761.8	902.8	1099.1	1424.2	1739.5	1966.4
35°	487.0	487.0	487.0	485.8	485.8	484.5	483.3	482.1	480.9	479.6	478.4
37.5°	489.5	489.5	489.5	489.5	488.2	487.0	487.0	484.5	483.3	482.1	480.9
40°	490.7	491.9	491.9	491.9	490.7	490.7	489.5	487.0	485.8	483.3	480.9
42.5°	489.5	490.7	490.7	489.5	489.5	488.2	488.2	487.0	485.8	484.5	483.3
45°	473.5	474.7	472.3	472.3	471.1	471.1	471.1	471.1	471.1	472.3	472.3
47.5°	445.3	445.3	444.1	442.8	442.8	441.6	442.8	441.6	444.1	445.3	447.7
50°	412.2	412.2	409.7	408.5	408.5	408.5	408.5	409.7	410.9	413.4	415.8
52.5°	377.8	377.8	376.6	375.4	374.1	374.1	377.8	376.6	377.8	379.0	382.7
55°	344.7	345.9	343.5	343.5	342.2	342.2	342.2	343.5	344.7	345.9	349.6
57.5°	316.5	316.5	314.0	314.0	314.0	312.8	316.5	314.0	315.3	316.5	318.9
60°	288.3	287.0	287.0	285.8	285.8	285.8	288.3	287.0	287.0	288.3	290.7
62.5°	262.5	262.5	261.3	261.3	260.1	260.1	262.5	261.3	261.3	262.5	263.7
65°	233.1	233.1	231.8	230.6	234.3	230.6	234.3	231.8	234.3	235.5	238.0
67.5°	200.0	200.0	200.0	198.7	198.7	201.2	202.4	200.0	201.2	203.6	204.9
70°	170.5	170.5	169.3	169.3	169.3	171.7	173.0	170.5	171.7	173.0	175.4
72.5°	144.7	142.3	142.3	141.1	143.5	143.5	144.7	143.5	144.7	144.7	147.2
75°	119.0	116.5	116.5	116.5	119.0	117.8	119.0	117.8	119.0	119.0	120.2
77.5°	95.7	94.5	93.2	93.2	95.7	95.7	95.7	94.5	95.7	96.9	98.1
80°	74.8	73.6	72.4	72.4	74.8	74.8	74.8	76.1	74.8	76.1	77.3
82.5°	55.2	54.0	52.7	55.2	55.2	55.2	55.2	56.4	55.2	56.4	57.7
85°	36.8	35.6	34.3	36.8	36.8	36.8	36.8	38.0	36.8	38.0	39.3
87.5°	19.6	18.4	18.4	19.6	19.6	19.6	20.9	20.9	20.9	22.1	22.1
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: P1213847

CATALOG NUMBER: 4SNLED-LD5-62SL-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°	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6
2.5°	2896.2	2899.9	2898.7	2891.3	2884.0	2875.4	2869.2	2870.5	2882.7	2886.4	2875.4
5°	2774.8	2798.1	2798.1	2814.0	2805.4	2798.1	2803.0	2830.0	2843.5	2864.3	2871.7
7.5°	2649.7	2660.7	2659.5	2675.4	2673.0	2673.0	2676.6	2712.2	2729.4	2746.6	2751.5
10°	2579.7	2590.8	2589.6	2590.8	2587.1	2578.5	2578.5	2594.5	2609.2	2617.8	2620.2
12.5°	2529.4	2535.6	2534.3	2534.3	2531.9	2524.5	2523.3	2536.8	2552.7	2563.8	2565.0
15°	2454.6	2471.8	2475.5	2491.4	2487.7	2477.9	2480.4	2491.4	2501.2	2511.0	2507.4
17.5°	2343.0	2351.6	2352.8	2358.9	2356.5	2356.5	2371.2	2411.7	2438.7	2462.0	2464.4
20°	2279.2	2285.3	2282.9	2296.4	2290.2	2289.0	2292.7	2309.9	2322.1	2333.2	2352.8
22.5°	2248.5	2253.4	2249.8	2251.0	2239.9	2230.1	2227.7	2241.2	2254.7	2269.4	2269.4
25°	2222.8	2226.4	2225.2	2222.8	2214.2	2200.7	2198.2	2200.7	2205.6	2206.8	2198.2
27.5°	2192.1	2194.6	2194.6	2195.8	2184.7	2172.5	2170.0	2167.6	2172.5	2171.2	2157.8
30°	2160.2	2156.5	2157.8	2159.0	2149.2	2138.1	2133.2	2132.0	2136.9	2135.7	2122.2
32.5°	2084.2	2112.4	2114.8	2117.3	2108.7	2098.9	2094.0	2090.3	2092.7	2091.5	2079.2
35°	477.2	485.8	594.9	1346.9	1829.0	2025.3	2046.1	2041.2	2042.4	2042.4	2032.6
37.5°	478.4	477.2	476.0	472.3	468.6	466.1	805.9	1718.6	1990.9	1992.2	1983.6
40°	478.4	477.2	476.0	473.5	468.6	464.9	458.8	453.9	464.9	1023.1	1871.9
42.5°	480.9	478.4	476.0	473.5	468.6	463.7	458.8	452.7	456.3	453.9	447.7
45°	473.5	472.3	472.3	471.1	468.6	463.7	457.6	450.2	446.5	450.2	444.1
47.5°	450.2	451.4	455.1	456.3	456.3	457.6	453.9	449.0	442.8	446.5	439.2
50°	418.3	420.8	422.0	428.1	430.6	435.5	436.7	436.7	435.5	440.4	435.5
52.5°	384.0	386.4	392.5	395.0	397.4	404.8	407.3	410.9	413.4	420.8	425.7
55°	350.8	352.1	354.5	359.4	363.1	369.2	372.9	376.6	382.7	386.4	401.1
57.5°	320.2	321.4	326.3	327.5	330.0	334.9	338.6	343.5	348.4	350.8	368.0
60°	290.7	292.0	295.6	296.9	298.1	303.0	306.7	310.4	314.0	316.5	328.8
62.5°	265.0	265.0	268.6	268.6	269.9	273.6	276.0	278.5	282.1	283.4	289.5
65°	239.2	240.4	242.9	242.9	244.1	246.6	247.8	249.0	252.7	252.7	257.6
67.5°	207.3	208.5	212.2	214.7	215.9	220.8	222.0	223.3	225.7	226.9	229.4
70°	176.6	177.9	181.6	182.8	184.0	187.7	190.1	193.8	197.5	201.2	203.6
72.5°	148.4	149.7	153.3	153.3	157.0	158.2	160.7	161.9	165.6	168.1	171.7
75°	121.4	122.7	126.3	126.3	130.0	131.3	132.5	133.7	136.2	138.6	141.1
77.5°	99.4	99.4	104.3	106.7	109.2	109.2	110.4	110.4	110.4	111.6	114.1
80°	78.5	78.5	82.2	84.6	87.1	87.1	88.3	89.5	90.8	90.8	92.0
82.5°	58.9	58.9	62.6	63.8	66.2	66.2	66.2	67.5	68.7	67.5	69.9
85°	40.5	40.5	42.9	44.2	46.6	46.6	46.6	47.8	49.1	47.8	49.1
87.5°	23.3	24.5	25.8	27.0	28.2	29.4	29.4	29.4	30.7	30.7	31.9
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: P1213847

CATALOG NUMBER: 4SNLED-LD5-62SL-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°	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6
2.5°	2863.1	2848.4	2847.2	2830.0	2825.1	2826.3	2812.8	2807.9	2785.8	2780.9	2757.6
5°	2874.1	2881.5	2877.8	2876.6	2880.3	2877.8	2868.0	2863.1	2859.4	2849.6	2830.0
7.5°	2752.7	2757.6	2761.3	2777.2	2790.7	2814.0	2838.6	2854.5	2866.8	2869.2	2853.3
10°	2628.8	2652.1	2668.1	2692.6	2712.2	2725.7	2740.4	2753.9	2789.5	2825.1	2845.9
12.5°	2565.0	2571.2	2569.9	2583.4	2596.9	2632.5	2666.8	2686.5	2713.4	2729.4	2767.4
15°	2511.0	2512.3	2515.9	2525.8	2533.1	2545.4	2561.3	2590.8	2644.8	2669.3	2690.1
17.5°	2462.0	2462.0	2464.4	2473.0	2482.8	2493.9	2503.7	2515.9	2542.9	2583.4	2634.9
20°	2383.5	2417.8	2421.5	2420.3	2425.2	2446.0	2448.5	2470.6	2484.1	2500.0	2550.3
22.5°	2266.9	2287.8	2317.2	2362.6	2379.8	2389.6	2397.0	2406.8	2427.6	2446.0	2466.9
25°	2203.1	2216.6	2225.2	2238.7	2274.3	2331.9	2343.0	2354.0	2367.5	2381.0	2406.8
27.5°	2146.7	2145.5	2151.6	2163.9	2173.7	2204.4	2258.3	2301.3	2303.7	2323.4	2345.4
30°	2106.2	2098.9	2090.3	2087.8	2101.3	2117.3	2133.2	2200.7	2247.3	2257.1	2280.4
32.5°	2068.2	2055.9	2043.7	2033.9	2025.3	2038.8	2048.6	2078.0	2138.1	2194.6	2206.8
35°	2021.6	2009.3	1994.6	1983.6	1970.1	1968.8	1967.6	1995.8	2015.5	2082.9	2141.8
37.5°	1973.8	1960.3	1948.0	1935.7	1922.2	1912.4	1906.3	1913.6	1932.0	1961.5	2059.6
40°	1923.5	1907.5	1895.2	1885.4	1867.0	1859.7	1847.4	1842.5	1843.7	1869.5	1921.0
42.5°	1149.4	1832.7	1838.8	1827.8	1811.8	1802.0	1788.5	1782.4	1770.1	1782.4	1811.8
45°	442.8	447.7	1340.8	1771.3	1751.7	1739.5	1727.2	1721.1	1707.6	1697.7	1724.7
47.5°	434.2	439.2	429.3	608.4	1672.0	1675.7	1660.9	1654.8	1641.3	1634.0	1626.6
50°	428.1	431.8	424.4	426.9	418.3	1532.1	1593.5	1586.1	1571.4	1562.8	1548.1
52.5°	422.0	422.0	417.1	410.9	408.5	409.7	1289.3	1516.2	1499.0	1490.4	1470.8
55°	402.4	404.8	409.7	399.9	397.4	396.2	392.5	1227.9	1419.3	1409.5	1392.3
57.5°	372.9	377.8	391.3	388.9	388.9	379.0	376.6	376.6	1139.6	1327.3	1310.1
60°	338.6	343.5	358.2	363.1	366.8	364.3	361.9	360.6	355.7	1200.9	1223.0
62.5°	303.0	307.9	312.8	328.8	333.7	339.8	347.2	343.5	338.6	338.6	1131.0
65°	265.0	272.3	274.8	289.5	295.6	306.7	312.8	321.4	318.9	317.7	323.8
67.5°	231.8	240.4	241.7	247.8	258.8	263.7	271.1	287.0	294.4	296.9	299.3
70°	203.6	208.5	212.2	214.7	222.0	223.3	236.8	247.8	258.8	271.1	274.8
72.5°	175.4	179.1	186.5	184.0	186.5	191.4	198.7	206.1	217.1	234.3	245.3
75°	143.5	146.0	150.9	153.3	158.2	161.9	166.8	173.0	182.8	191.4	206.1
77.5°	115.3	116.5	120.2	121.4	126.3	130.0	138.6	142.3	148.4	154.6	163.2
80°	93.2	93.2	94.5	94.5	98.1	101.8	107.9	111.6	119.0	123.9	123.9
82.5°	71.1	71.1	74.8	74.8	77.3	77.3	81.0	81.0	84.6	87.1	89.5
85°	50.3	51.5	54.0	52.7	55.2	54.0	56.4	58.9	60.1	58.9	57.7
87.5°	33.1	33.1	35.6	34.3	35.6	35.6	38.0	38.0	39.3	39.3	38.0
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: P1213847

CATALOG NUMBER: 4SNLED-LD5-62SL-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°	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6
2.5°	2749.0	2730.6	2719.6	2706.1	2702.4	2698.7	2703.6	2703.6	2696.3	2690.1	2679.1
5°	2812.8	2793.2	2772.3	2750.2	2729.4	2707.3	2698.7	2697.5	2684.0	2676.6	2673.0
7.5°	2845.9	2836.1	2812.8	2782.1	2750.2	2711.0	2693.8	2684.0	2670.5	2668.1	2668.1
10°	2849.6	2838.6	2826.3	2804.2	2767.4	2715.9	2682.8	2663.2	2650.9	2659.5	2675.4
12.5°	2814.0	2834.9	2823.8	2809.1	2779.7	2717.1	2669.3	2639.8	2636.2	2658.2	2700.0
15°	2723.3	2784.6	2815.3	2800.5	2777.2	2714.7	2647.2	2612.9	2612.9	2658.2	2712.2
17.5°	2654.6	2702.4	2777.2	2789.5	2762.5	2709.8	2626.4	2585.9	2596.9	2663.2	2720.8
20°	2598.1	2627.6	2700.0	2768.6	2742.9	2698.7	2595.7	2554.0	2576.1	2655.8	2733.1
22.5°	2509.8	2568.7	2612.9	2714.7	2723.3	2677.9	2565.0	2514.7	2558.9	2655.8	2726.9
25°	2423.9	2495.1	2541.7	2641.1	2693.8	2652.1	2536.8	2473.0	2540.5	2652.1	2722.0
27.5°	2363.8	2397.0	2481.6	2552.7	2649.7	2617.8	2498.8	2427.6	2517.2	2632.5	2693.8
30°	2300.1	2322.1	2405.5	2473.0	2590.8	2578.5	2459.5	2377.3	2487.7	2614.1	2620.2
32.5°	2230.1	2254.7	2297.6	2395.7	2508.6	2541.7	2415.4	2327.0	2455.8	2585.9	2534.3
35°	2159.0	2177.4	2211.7	2317.2	2412.9	2486.5	2361.4	2269.4	2433.8	2542.9	2452.2
37.5°	2087.8	2107.5	2136.9	2225.2	2312.3	2435.0	2314.8	2211.7	2393.3	2466.9	2366.3
40°	2020.4	2031.4	2062.1	2117.3	2228.9	2382.2	2262.0	2151.6	2351.6	2370.0	2249.8
42.5°	1896.5	1951.7	1979.9	2024.0	2134.4	2309.9	2200.7	2087.8	2305.0	2273.1	2133.2
45°	1762.8	1883.0	1895.2	1939.4	2051.0	2232.6	2143.0	2025.3	2260.8	2189.6	2022.8
47.5°	1653.6	1740.7	1811.8	1848.6	1951.7	2141.8	2089.1	1972.5	2194.6	2084.2	1914.9
50°	1556.7	1603.3	1732.1	1759.1	1832.7	2032.6	2025.3	1911.2	2102.6	1951.7	1809.4
52.5°	1462.2	1495.3	1611.9	1669.5	1729.6	1914.9	1949.2	1851.1	2002.0	1819.2	1702.7
55°	1380.0	1391.1	1454.9	1576.3	1630.3	1795.9	1865.8	1781.2	1874.4	1692.8	1599.6
57.5°	1295.4	1285.6	1332.2	1488.0	1527.2	1674.4	1777.5	1710.0	1771.3	1564.0	1492.9
60°	1207.1	1193.6	1213.2	1316.2	1418.1	1554.2	1673.2	1631.5	1646.2	1436.5	1373.9
62.5°	1115.1	1101.6	1095.4	1160.5	1311.3	1430.3	1567.7	1544.4	1492.9	1319.9	1226.7
65°	1019.4	1005.9	996.1	1021.8	1193.6	1269.6	1450.0	1443.8	1324.8	1197.3	1032.9
67.5°	310.4	915.1	894.3	893.0	1005.9	1123.7	1322.4	1312.6	1155.5	1066.0	889.4
70°	279.7	742.1	788.8	777.7	826.8	975.2	1176.4	1169.0	991.2	855.0	786.3
72.5°	256.4	262.5	696.8	684.5	695.5	829.2	1024.3	1004.7	840.3	674.7	679.6
75°	219.6	230.6	240.4	577.8	563.1	686.9	858.7	828.0	693.1	556.9	568.0
77.5°	179.1	192.6	200.0	420.8	455.1	489.5	685.7	645.2	477.2	445.3	212.2
80°	133.7	144.7	157.0	168.1	345.9	342.2	509.1	468.6	332.4	277.2	165.6
82.5°	98.1	101.8	109.2	121.4	137.4	229.4	327.5	288.3	230.6	126.3	114.1
85°	61.3	66.2	69.9	73.6	83.4	137.4	161.9	128.8	96.9	77.3	72.4
87.5°	39.3	39.3	38.0	39.3	40.5	49.1	55.2	52.7	41.7	39.3	39.3
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: P1213847

CATALOG NUMBER: 4SNLED-LD5-62SL-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°	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6
2.5°	2666.8	2649.7	2649.7	2644.8	2648.4	2648.4	2647.2	2648.4	2657.0	2661.9	2670.5
5°	2665.6	2660.7	2671.7	2685.2	2701.2	2720.8	2725.7	2742.9	2758.8	2779.7	2801.8
7.5°	2681.6	2698.7	2719.6	2741.7	2773.6	2796.9	2817.7	2838.6	2853.3	2872.9	2885.2
10°	2704.9	2739.2	2774.8	2803.0	2837.3	2857.0	2870.5	2872.9	2852.1	2818.9	2792.0
12.5°	2738.0	2778.5	2811.6	2838.6	2854.5	2847.2	2807.9	2767.4	2744.1	2709.8	2661.9
15°	2766.2	2803.0	2837.3	2826.3	2783.4	2742.9	2712.2	2664.4	2617.8	2585.9	2565.0
17.5°	2778.5	2814.0	2801.8	2744.1	2703.6	2657.0	2594.5	2557.7	2527.0	2502.5	2490.2
20°	2785.8	2779.7	2713.4	2671.7	2593.2	2550.3	2509.8	2475.5	2452.2	2439.9	2437.4
22.5°	2766.2	2691.4	2634.9	2560.1	2502.5	2466.9	2435.0	2406.8	2390.8	2381.0	2374.9
25°	2701.2	2614.1	2530.7	2471.8	2422.7	2392.1	2367.5	2344.2	2324.6	2319.7	2307.4
27.5°	2610.4	2539.3	2428.9	2383.5	2340.5	2325.8	2298.8	2275.5	2258.3	2243.6	2204.4
30°	2535.6	2422.7	2343.0	2301.3	2275.5	2258.3	2227.7	2203.1	2173.7	2119.7	2097.6
32.5°	2443.6	2331.9	2255.9	2232.6	2200.7	2186.0	2151.6	2097.6	2052.3	2030.2	2029.0
35°	2324.6	2232.6	2177.4	2156.5	2130.8	2106.2	2035.1	1986.0	1963.9	1966.4	1984.8
37.5°	2225.2	2143.0	2107.5	2078.0	2048.6	1986.0	1925.9	1902.6	1908.7	1921.0	1929.6
40°	2124.6	2062.1	2021.6	1998.3	1932.0	1870.7	1838.8	1847.4	1858.4	1867.0	1878.1
42.5°	2026.5	1982.3	1941.9	1896.5	1805.7	1772.6	1779.9	1791.0	1800.8	1813.1	1824.1
45°	1933.3	1894.0	1847.4	1744.4	1699.0	1707.6	1718.6	1727.2	1741.9	1750.5	1761.5
47.5°	1844.9	1803.2	1721.1	1630.3	1625.4	1642.5	1652.4	1663.4	1674.4	1652.4	911.4
50°	1745.6	1702.7	1577.5	1543.2	1554.2	1570.2	1582.4	1593.5	1419.3	564.3	434.2
52.5°	1647.4	1538.3	1458.5	1468.4	1479.4	1497.8	1506.4	1118.7	445.3	424.4	425.7
55°	1538.3	1398.4	1375.1	1387.4	1397.2	1415.6	938.4	410.9	408.5	407.3	417.1
57.5°	1366.5	1281.9	1291.7	1304.0	1313.8	927.4	399.9	397.4	398.7	399.9	401.1
60°	1213.2	1194.8	1205.8	1216.9	861.1	386.4	379.0	380.3	385.2	381.5	371.7
62.5°	1091.8	1106.5	1117.5	978.9	366.8	363.1	366.8	363.1	354.5	348.4	336.1
65°	998.5	1013.2	1021.8	344.7	343.5	348.4	344.7	332.4	318.9	301.8	298.1
67.5°	900.4	915.1	327.5	318.9	323.8	317.7	303.0	288.3	278.5	263.7	257.6
70°	798.6	342.2	296.9	295.6	287.0	277.2	261.3	246.6	234.3	228.2	222.0
72.5°	576.5	271.1	267.4	257.6	242.9	229.4	215.9	207.3	201.2	197.5	193.8
75°	240.4	235.5	224.5	207.3	192.6	186.5	176.6	170.5	168.1	160.7	158.2
77.5°	201.2	191.4	175.4	163.2	154.6	150.9	143.5	136.2	132.5	131.3	126.3
80°	154.6	141.1	133.7	127.6	125.1	116.5	107.9	104.3	101.8	100.6	96.9
82.5°	105.5	100.6	95.7	87.1	87.1	83.4	79.7	77.3	74.8	74.8	72.4
85°	68.7	65.0	63.8	60.1	60.1	57.7	56.4	55.2	54.0	52.7	51.5
87.5°	39.3	39.3	40.5	39.3	39.3	38.0	36.8	35.6	34.3	34.3	31.9
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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CATALOG NUMBER: 4SNLED-LD5-62SL-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°	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6
2.5°	2681.6	2693.8	2696.3	2738.0	2761.3	2760.1	2752.7	2774.8	2761.3	2753.9	2761.3
5°	2823.8	2838.6	2850.8	2896.2	2912.2	2919.5	2918.3	2930.6	2920.8	2912.2	2912.2
7.5°	2893.8	2898.7	2903.6	2892.5	2885.2	2872.9	2854.5	2827.5	2814.0	2799.3	2780.9
10°	2778.5	2762.5	2768.6	2746.6	2728.2	2714.7	2697.5	2675.4	2657.0	2643.5	2622.7
12.5°	2637.4	2636.2	2638.6	2642.3	2623.9	2612.9	2599.4	2583.4	2569.9	2555.2	2538.0
15°	2551.5	2552.7	2562.6	2558.9	2552.7	2546.6	2531.9	2527.0	2514.7	2498.8	2489.0
17.5°	2490.2	2496.3	2506.1	2501.2	2491.4	2485.3	2474.2	2463.2	2452.2	2439.9	2425.2
20°	2436.2	2442.3	2448.5	2442.3	2423.9	2415.4	2400.6	2366.3	2341.8	2317.2	2295.1
22.5°	2377.3	2381.0	2376.1	2356.5	2309.9	2287.8	2270.6	2260.8	2239.9	2226.4	2213.0
25°	2303.7	2282.9	2251.0	2228.9	2210.5	2200.7	2193.3	2192.1	2189.6	2187.2	2181.1
27.5°	2183.5	2176.2	2159.0	2150.4	2151.6	2155.3	2156.5	2160.2	2156.5	2151.6	2146.7
30°	2094.0	2097.6	2098.9	2101.3	2107.5	2111.1	2112.4	2117.3	2114.8	2111.1	2108.7
32.5°	2037.5	2046.1	2051.0	2058.4	2062.1	2068.2	2068.2	2075.6	2068.2	2067.0	2064.5
35°	1990.9	1998.3	2000.7	2011.8	2015.5	2021.6	2021.6	2027.7	2021.6	1959.0	1546.9
37.5°	1944.3	1951.7	1956.6	1966.4	1967.6	1971.3	1819.2	1331.0	858.7	664.9	507.9
40°	1889.1	1897.7	1902.6	1906.3	1339.5	850.1	585.1	476.0	476.0	479.6	483.3
42.5°	1830.2	1836.4	1279.4	744.6	463.7	462.5	466.1	469.8	473.5	478.4	483.3
45°	1438.9	726.2	461.2	450.2	453.9	458.8	463.7	468.6	474.7	479.6	482.1
47.5°	472.3	442.8	449.0	444.1	450.2	456.3	461.2	466.1	467.4	468.6	467.4
50°	436.7	436.7	440.4	440.4	445.3	447.7	447.7	447.7	442.8	441.6	437.9
52.5°	422.0	431.8	426.9	429.3	426.9	423.2	419.5	415.8	408.5	406.0	401.1
55°	414.6	418.3	406.0	402.4	397.4	387.6	382.7	377.8	371.7	369.2	363.1
57.5°	397.4	388.9	375.4	369.2	360.6	350.8	345.9	342.2	336.1	333.7	330.0
60°	365.6	348.4	339.8	332.4	322.6	314.0	310.4	307.9	303.0	301.8	298.1
62.5°	326.3	311.6	304.2	294.4	287.0	282.1	278.5	277.2	272.3	272.3	269.9
65°	283.4	276.0	269.9	260.1	256.4	251.5	250.2	249.0	246.6	245.3	242.9
67.5°	249.0	244.1	235.5	230.6	228.2	224.5	222.0	219.6	214.7	212.2	208.5
70°	218.4	214.7	206.1	202.4	197.5	191.4	187.7	185.2	181.6	179.1	175.4
72.5°	188.9	177.9	171.7	168.1	164.4	158.2	157.0	154.6	150.9	149.7	146.0
75°	152.1	143.5	139.8	137.4	133.7	130.0	130.0	130.0	126.3	125.1	123.9
77.5°	121.4	116.5	114.1	111.6	110.4	107.9	104.3	103.0	99.4	99.4	98.1
80°	93.2	90.8	88.3	87.1	85.9	83.4	81.0	79.7	76.1	76.1	74.8
82.5°	68.7	67.5	66.2	65.0	63.8	62.6	58.9	57.7	55.2	55.2	54.0
85°	49.1	47.8	45.4	44.2	44.2	42.9	39.3	38.0	35.6	35.6	35.6
87.5°	30.7	29.4	28.2	27.0	25.8	24.5	22.1	20.9	20.9	18.4	17.2
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: P1213847

CATALOG NUMBER: 4SNLED-LD5-62SL-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°	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6
2.5°	2746.6	2767.4	2765.0	2779.7	2783.4	2790.7	2793.2	2794.4	2776.0	2790.7	2792.0
5°	2908.5	2912.2	2914.6	2920.8	2926.9	2928.1	2922.0	2914.6	2917.1	2912.2	2899.9
7.5°	2778.5	2760.1	2756.4	2751.5	2749.0	2746.6	2735.5	2745.3	2734.3	2729.4	2712.2
10°	2619.0	2601.8	2600.6	2600.6	2604.3	2603.0	2600.6	2595.7	2605.5	2599.4	2595.7
12.5°	2535.6	2529.4	2533.1	2530.7	2540.5	2542.9	2540.5	2540.5	2538.0	2533.1	2535.6
15°	2485.3	2480.4	2484.1	2480.4	2487.7	2489.0	2482.8	2486.5	2480.4	2474.2	2471.8
17.5°	2419.0	2408.0	2399.4	2387.1	2388.4	2385.9	2378.6	2378.6	2372.4	2356.5	2357.7
20°	2291.5	2280.4	2275.5	2275.5	2281.7	2284.1	2282.9	2285.3	2279.2	2276.7	2266.9
22.5°	2211.7	2210.5	2213.0	2219.1	2228.9	2242.4	2243.6	2243.6	2243.6	2242.4	2230.1
25°	2183.5	2183.5	2186.0	2194.6	2201.9	2211.7	2214.2	2216.6	2214.2	2214.2	2203.1
27.5°	2151.6	2149.2	2154.1	2162.7	2171.2	2178.6	2184.7	2186.0	2182.3	2182.3	2186.0
30°	2112.4	2111.1	2117.3	2125.9	2133.2	2140.6	2146.7	2151.6	2146.7	2146.7	2143.0
32.5°	2071.9	2071.9	2074.3	2022.8	1875.6	1689.2	1692.8	1584.9	1510.1	1415.6	1540.7
35°	1292.9	940.9	808.4	684.5	597.4	541.0	539.7	521.3	512.8	506.6	505.4
37.5°	488.2	490.7	495.6	498.0	501.7	504.2	505.4	505.4	505.4	505.4	504.2
40°	487.0	491.9	495.6	499.3	502.9	505.4	505.4	506.6	507.9	507.9	507.9
42.5°	488.2	493.1	498.0	501.7	504.2	505.4	506.6	507.9	507.9	507.9	507.9
45°	487.0	489.5	489.5	490.7	490.7	490.7	491.9	491.9	490.7	489.5	491.9
47.5°	468.6	468.6	464.9	463.7	462.5	460.0	461.2	460.0	458.8	457.6	460.0
50°	436.7	431.8	429.3	426.9	425.7	423.2	424.4	423.2	422.0	419.5	423.2
52.5°	398.7	397.4	392.5	390.1	388.9	390.1	387.6	386.4	385.2	384.0	385.2
55°	361.9	357.0	355.7	353.3	352.1	353.3	352.1	350.8	349.6	348.4	349.6
57.5°	328.8	325.1	323.8	321.4	321.4	321.4	321.4	320.2	318.9	317.7	318.9
60°	296.9	294.4	293.2	293.2	292.0	292.0	292.0	290.7	289.5	289.5	290.7
62.5°	269.9	269.9	266.2	265.0	265.0	266.2	265.0	263.7	262.5	261.3	263.7
65°	241.7	236.8	235.5	233.1	230.6	231.8	230.6	229.4	228.2	226.9	229.4
67.5°	207.3	206.1	201.2	198.7	197.5	198.7	197.5	196.3	195.0	193.8	196.3
70°	174.2	174.2	169.3	168.1	166.8	166.8	165.6	165.6	164.4	163.2	165.6
72.5°	144.7	144.7	143.5	141.1	139.8	138.6	137.4	136.2	136.2	137.4	137.4
75°	120.2	117.8	112.9	114.1	112.9	111.6	111.6	110.4	109.2	111.6	110.4
77.5°	94.5	93.2	89.5	90.8	89.5	88.3	88.3	87.1	85.9	87.1	87.1
80°	71.1	71.1	69.9	68.7	68.7	67.5	66.2	66.2	65.0	66.2	66.2
82.5°	51.5	51.5	50.3	49.1	47.8	47.8	46.6	46.6	46.6	46.6	46.6
85°	33.1	31.9	31.9	29.4	29.4	29.4	28.2	28.2	28.2	28.2	28.2
87.5°	15.9	15.9	14.7	14.7	13.5	12.3	12.3	11.0	11.0	12.3	12.3
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: P1213847

CATALOG NUMBER: 4SNLED-LD5-62SL-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°	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6
2.5°	2769.9	2785.8	2772.3	2778.5	2779.7	2800.5	2799.3	2804.2	2795.6	2785.8	2772.3
5°	2910.9	2903.6	2893.8	2917.1	2904.8	2919.5	2924.4	2934.3	2934.3	2933.0	2922.0
7.5°	2730.6	2714.7	2726.9	2735.5	2739.2	2729.4	2749.0	2771.1	2789.5	2800.5	2801.8
10°	2589.6	2594.5	2593.2	2596.9	2605.5	2604.3	2616.5	2628.8	2633.7	2641.1	2643.5
12.5°	2523.3	2522.1	2524.5	2533.1	2538.0	2536.8	2549.1	2556.4	2558.9	2560.1	2558.9
15°	2470.6	2462.0	2468.1	2469.3	2473.0	2473.0	2487.7	2498.8	2503.7	2506.1	2503.7
17.5°	2371.2	2350.3	2370.0	2370.0	2383.5	2381.0	2404.3	2422.7	2432.5	2439.9	2439.9
20°	2273.1	2263.3	2270.6	2268.2	2278.0	2276.7	2291.5	2303.7	2312.3	2318.5	2325.8
22.5°	2233.8	2236.3	2225.2	2226.4	2226.4	2225.2	2232.6	2238.7	2241.2	2244.8	2242.4
25°	2208.0	2210.5	2206.8	2200.7	2198.2	2200.7	2204.4	2211.7	2213.0	2210.5	2201.9
27.5°	2182.3	2174.9	2181.1	2170.0	2167.6	2172.5	2177.4	2178.6	2179.8	2179.8	2172.5
30°	2143.0	2136.9	2143.0	2138.1	2133.2	2138.1	2141.8	2141.8	2144.3	2145.5	2136.9
32.5°	1497.8	1510.1	1708.8	1829.0	1998.3	2084.2	2100.1	2100.1	2102.6	2102.6	2095.2
35°	510.3	511.5	553.2	599.9	699.2	821.9	982.6	1066.0	1348.1	1685.5	2011.8
37.5°	504.2	502.9	501.7	500.5	499.3	498.0	495.6	494.4	501.7	594.9	807.2
40°	506.6	505.4	502.9	501.7	500.5	498.0	496.8	494.4	491.9	489.5	487.0
42.5°	506.6	505.4	504.2	502.9	501.7	500.5	498.0	495.6	493.1	489.5	485.8
45°	489.5	489.5	490.7	490.7	491.9	491.9	491.9	490.7	490.7	489.5	484.5
47.5°	457.6	457.6	461.2	461.2	463.7	466.1	466.1	468.6	472.3	474.7	476.0
50°	420.8	420.8	424.4	425.7	428.1	431.8	435.5	436.7	440.4	445.3	450.2
52.5°	384.0	384.0	387.6	387.6	390.1	393.8	397.4	398.7	403.6	408.5	414.6
55°	349.6	349.6	352.1	353.3	354.5	357.0	360.6	360.6	365.6	369.2	375.4
57.5°	318.9	321.4	321.4	321.4	322.6	325.1	327.5	327.5	331.2	334.9	339.8
60°	289.5	292.0	292.0	292.0	293.2	294.4	296.9	296.9	299.3	301.8	306.7
62.5°	262.5	265.0	265.0	266.2	266.2	267.4	269.9	268.6	271.1	272.3	276.0
65°	228.2	230.6	231.8	233.1	234.3	236.8	240.4	239.2	242.9	245.3	249.0
67.5°	195.0	197.5	197.5	198.7	200.0	202.4	204.9	204.9	208.5	211.0	215.9
70°	164.4	166.8	166.8	168.1	169.3	171.7	174.2	173.0	176.6	179.1	182.8
72.5°	136.2	138.6	138.6	139.8	139.8	142.3	144.7	147.2	147.2	149.7	152.1
75°	110.4	111.6	112.9	112.9	114.1	115.3	117.8	120.2	121.4	122.7	125.1
77.5°	87.1	88.3	89.5	89.5	90.8	92.0	93.2	98.1	100.6	101.8	101.8
80°	66.2	67.5	67.5	67.5	68.7	69.9	72.4	72.4	77.3	77.3	78.5
82.5°	46.6	47.8	47.8	47.8	49.1	51.5	52.7	54.0	56.4	57.7	57.7
85°	28.2	29.4	29.4	29.4	30.7	31.9	34.3	35.6	36.8	36.8	38.0
87.5°	11.0	12.3	13.5	13.5	14.7	15.9	17.2	18.4	19.6	19.6	20.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6
2.5°	2757.6	2766.2	2757.6	2762.5	2768.6	2757.6	2731.8	2722.0	2718.4	2703.6	2693.8
5°	2910.9	2910.9	2907.3	2917.1	2915.9	2898.7	2871.7	2859.4	2847.2	2831.2	2818.9
7.5°	2801.8	2811.6	2817.7	2855.7	2880.3	2882.7	2899.9	2903.6	2908.5	2903.6	2896.2
10°	2644.8	2641.1	2658.2	2693.8	2714.7	2725.7	2758.8	2774.8	2788.3	2815.3	2843.5
12.5°	2556.4	2561.3	2568.7	2594.5	2614.1	2609.2	2622.7	2633.7	2649.7	2676.6	2717.1
15°	2497.5	2502.5	2509.8	2529.4	2541.7	2535.6	2542.9	2550.3	2561.3	2574.8	2599.4
17.5°	2433.8	2442.3	2450.9	2471.8	2482.8	2481.6	2487.7	2490.2	2493.9	2502.5	2519.6
20°	2334.4	2361.4	2378.6	2406.8	2422.7	2420.3	2431.3	2435.0	2439.9	2448.5	2455.8
22.5°	2243.6	2251.0	2259.6	2290.2	2317.2	2350.3	2357.7	2367.5	2379.8	2388.4	2395.7
25°	2192.1	2187.2	2190.9	2211.7	2226.4	2228.9	2239.9	2271.8	2305.0	2319.7	2336.9
27.5°	2161.4	2156.5	2155.3	2165.1	2167.6	2161.4	2159.0	2168.8	2193.3	2217.9	2269.4
30°	2128.3	2122.2	2117.3	2125.9	2129.5	2121.0	2105.0	2096.4	2111.1	2117.3	2138.1
32.5°	2089.1	2082.9	2080.5	2085.4	2087.8	2080.5	2063.3	2053.5	2051.0	2046.1	2051.0
35°	2044.9	2038.8	2035.1	2036.3	2041.2	2035.1	2020.4	2008.1	2002.0	1988.5	1978.7
37.5°	1053.7	1492.9	1938.2	1984.8	1989.7	1988.5	1973.8	1960.3	1954.1	1938.2	1933.3
40°	482.1	538.5	808.4	1056.2	1523.6	1935.7	1922.2	1908.7	1897.7	1892.8	1874.4
42.5°	480.9	482.1	483.3	477.2	591.3	1007.1	1486.8	1856.0	1848.6	1836.4	1822.9
45°	480.9	474.7	479.6	472.3	474.7	473.5	590.0	951.9	1694.1	1770.1	1764.0
47.5°	476.0	472.3	477.2	471.1	463.7	467.4	462.5	468.6	731.1	1240.2	1699.0
50°	453.9	456.3	464.9	463.7	457.6	462.5	453.9	461.2	455.1	499.3	961.7
52.5°	420.8	425.7	434.2	441.6	444.1	450.2	447.7	450.2	445.3	446.5	447.7
55°	381.5	387.6	395.0	406.0	410.9	420.8	428.1	431.8	437.9	436.7	426.9
57.5°	344.7	350.8	357.0	368.0	379.0	384.0	397.4	404.8	420.8	417.1	414.6
60°	310.4	315.3	321.4	323.8	337.3	345.9	358.2	365.6	386.4	391.3	398.7
62.5°	279.7	282.1	287.0	290.7	299.3	307.9	314.0	326.3	337.3	353.3	364.3
65°	251.5	253.9	257.6	260.1	261.3	273.6	277.2	290.7	294.4	311.6	321.4
67.5°	219.6	224.5	229.4	231.8	234.3	241.7	244.1	250.2	258.8	266.2	278.5
70°	186.5	190.1	195.0	198.7	203.6	208.5	215.9	219.6	225.7	230.6	240.4
72.5°	155.8	159.5	161.9	165.6	169.3	173.0	179.1	187.7	192.6	201.2	203.6
75°	126.3	130.0	132.5	134.9	138.6	141.1	143.5	152.1	157.0	164.4	171.7
77.5°	104.3	104.3	106.7	114.1	112.9	112.9	115.3	120.2	123.9	128.8	136.2
80°	81.0	82.2	83.4	89.5	90.8	92.0	90.8	94.5	98.1	99.4	104.3
82.5°	60.1	61.3	61.3	65.0	68.7	68.7	68.7	69.9	73.6	74.8	77.3
85°	40.5	41.7	42.9	44.2	46.6	47.8	49.1	49.1	51.5	52.7	54.0
87.5°	22.1	24.5	25.8	27.0	28.2	29.4	30.7	31.9	33.1	34.3	35.6
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°	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6
2.5°	2690.1	2684.0	2680.3	2670.5	2668.1	2652.1	2654.6	2652.1	2652.1	2655.8	2668.1
5°	2805.4	2776.0	2768.6	2747.8	2730.6	2701.2	2682.8	2673.0	2658.2	2652.1	2660.7
7.5°	2884.0	2861.9	2843.5	2825.1	2800.5	2766.2	2740.4	2711.0	2686.5	2663.2	2657.0
10°	2870.5	2895.0	2895.0	2884.0	2860.7	2826.3	2795.6	2758.8	2715.9	2679.1	2657.0
12.5°	2756.4	2799.3	2833.7	2859.4	2882.7	2859.4	2828.8	2799.3	2751.5	2697.5	2657.0
15°	2631.3	2675.4	2718.4	2772.3	2828.8	2852.1	2850.8	2816.5	2773.6	2717.1	2660.7
17.5°	2542.9	2573.6	2596.9	2655.8	2724.5	2784.6	2825.1	2827.5	2785.8	2735.5	2661.9
20°	2476.7	2498.8	2518.4	2551.5	2611.6	2685.2	2760.1	2801.8	2794.4	2739.2	2665.6
22.5°	2416.6	2432.5	2448.5	2473.0	2520.9	2568.7	2655.8	2741.7	2778.5	2733.1	2661.9
25°	2356.5	2373.7	2385.9	2403.1	2441.1	2480.4	2541.7	2648.4	2730.6	2728.2	2654.6
27.5°	2285.3	2308.6	2323.4	2346.7	2372.4	2401.9	2443.6	2544.2	2661.9	2703.6	2634.9
30°	2199.5	2233.8	2255.9	2281.7	2303.7	2329.5	2362.6	2423.9	2569.9	2655.8	2614.1
32.5°	2075.6	2136.9	2186.0	2210.5	2235.0	2257.1	2286.6	2338.1	2457.1	2590.8	2590.8
35°	1987.2	2015.5	2059.6	2130.8	2161.4	2183.5	2210.5	2251.0	2327.0	2513.5	2552.7
37.5°	1918.5	1929.6	1951.7	2021.6	2079.2	2114.8	2141.8	2167.6	2242.4	2408.0	2503.7
40°	1867.0	1863.3	1860.9	1894.0	1976.2	2032.6	2063.3	2089.1	2146.7	2281.7	2438.7
42.5°	1806.9	1803.2	1791.0	1799.6	1840.0	1934.5	1981.1	2009.3	2057.2	2149.2	2367.5
45°	1744.4	1738.2	1733.3	1724.7	1739.5	1792.2	1887.9	1929.6	1956.6	2038.8	2278.0
47.5°	1680.6	1672.0	1665.9	1658.5	1649.9	1674.4	1765.2	1840.0	1886.7	1938.2	2170.0
50°	1589.8	1600.8	1593.5	1584.9	1577.5	1572.6	1610.6	1733.3	1791.0	1832.7	2038.8
52.5°	749.5	1457.3	1518.6	1510.1	1500.2	1491.7	1500.2	1593.5	1697.7	1730.9	1880.5
55°	426.9	648.9	1350.6	1427.9	1419.3	1407.0	1399.7	1431.6	1587.3	1631.5	1735.8
57.5°	410.9	412.2	596.2	1286.8	1334.6	1323.6	1315.0	1322.4	1454.9	1529.7	1609.4
60°	397.4	397.4	397.4	569.2	1230.4	1234.1	1223.0	1210.7	1268.4	1415.6	1481.8
62.5°	368.0	375.4	379.0	379.0	561.8	1139.6	1128.6	1124.9	1127.3	1278.2	1354.3
65°	330.0	347.2	354.5	359.4	359.4	590.0	1031.6	1025.5	1016.9	1074.6	1225.5
67.5°	288.3	305.4	321.4	331.2	332.4	343.5	615.8	923.7	911.4	912.7	1088.1
70°	245.3	260.1	277.2	292.0	305.4	311.6	321.4	766.7	807.2	790.0	932.3
72.5°	212.2	218.4	230.6	245.3	261.3	276.0	284.6	305.4	700.4	682.0	709.0
75°	176.6	181.6	190.1	200.0	212.2	229.4	244.1	258.8	371.7	571.6	568.0
77.5°	137.4	146.0	155.8	161.9	168.1	180.3	200.0	214.7	229.4	386.4	455.1
80°	105.5	111.6	116.5	122.7	130.0	138.6	146.0	163.2	180.3	193.8	348.4
82.5°	78.5	82.2	85.9	88.3	90.8	95.7	109.2	115.3	126.3	138.6	164.4
85°	55.2	57.7	60.1	61.3	62.6	63.8	68.7	69.9	81.0	83.4	99.4
87.5°	35.6	36.8	39.3	40.5	40.5	41.7	42.9	42.9	42.9	40.5	49.1
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-LD5-62SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	2676.6	2676.6
2.5°	2677.9	2697.5
5°	2674.2	2700.0
7.5°	2664.4	2688.9
10°	2649.7	2679.1
12.5°	2633.7	2661.9
15°	2620.2	2641.1
17.5°	2605.5	2617.8
20°	2585.9	2595.7
22.5°	2566.2	2561.3
25°	2544.2	2533.1
27.5°	2515.9	2495.1
30°	2490.2	2453.4
32.5°	2465.7	2405.5
35°	2432.5	2356.5
37.5°	2398.2	2306.2
40°	2357.7	2248.5
42.5°	2314.8	2190.9
45°	2260.8	2135.7
47.5°	2213.0	2069.4
50°	2146.7	1998.3
52.5°	2065.8	1932.0
55°	1970.1	1851.1
57.5°	1867.0	1766.4
60°	1756.6	1669.5
62.5°	1622.9	1568.9
65°	1465.9	1453.6
67.5°	1261.0	1326.1
70°	1034.1	1180.1
72.5°	864.8	1025.5
75°	709.0	852.6
77.5°	561.8	668.5
80°	350.8	489.5
82.5°	235.5	321.4
85°	142.3	153.3
87.5°	55.2	56.4
90°	0.0	0.0

(END OF REPORT)