

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: P1213964

Luminaire Tested: 8SNLED-LD5-57SL-RW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213964
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: 8SNLED-LD5-57SL-RW-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

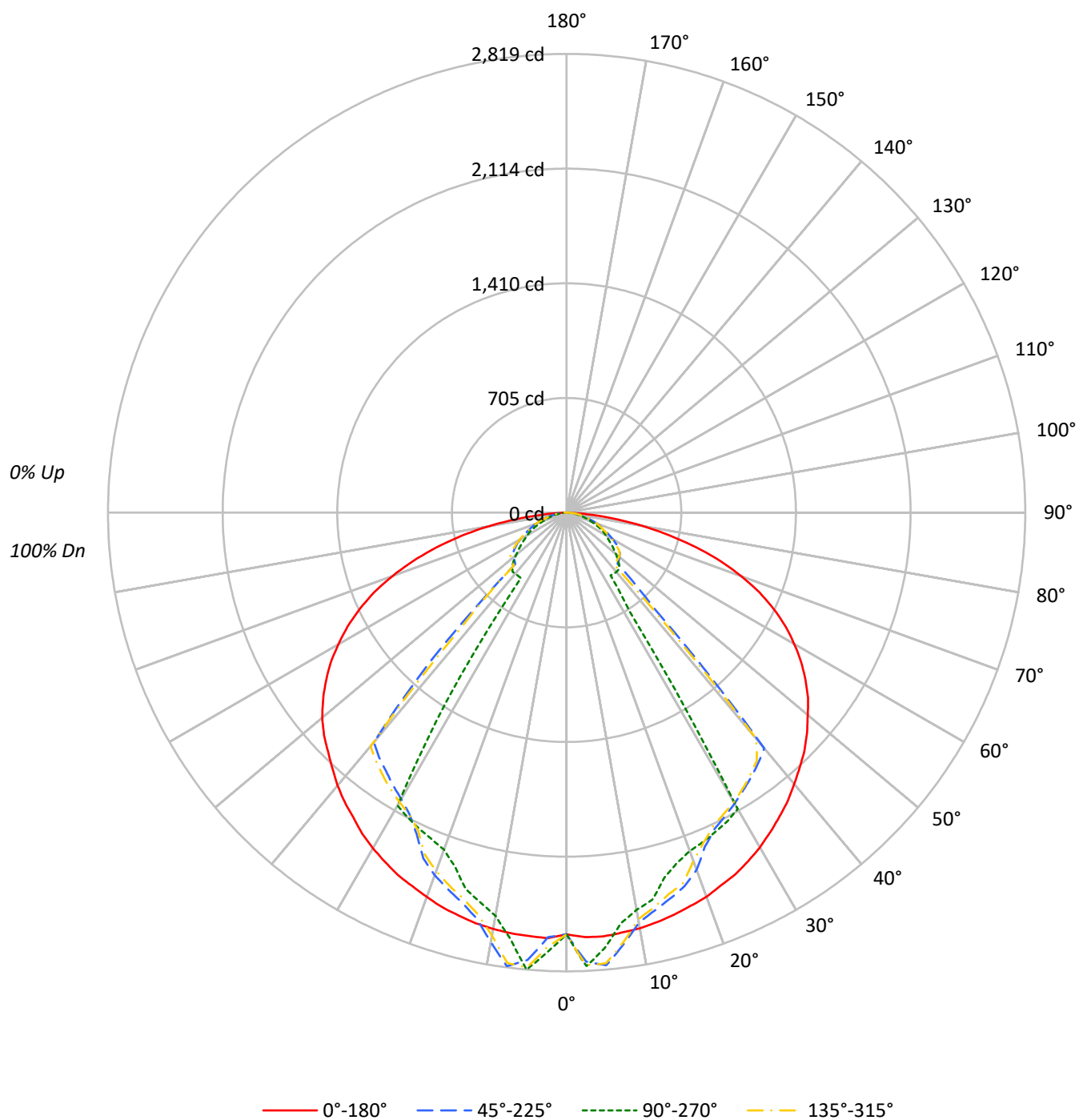
Lumens per Lamp: N/A
Luminaire Lumens: 5189.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 42
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

TEST NUMBER: P1213964

CATALOG NUMBER: 8SNLED-LD5-57SL-RW-UNV-L940-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213964

CATALOG NUMBER: 8SNLED-LD5-57SL-RW-UNV-L940-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10470	10470	10470	10470
5°	10587	10549	10582	11071
10°	10612	9537	10627	9683
15°	10651	8824	10676	9104
20°	10744	8369	10744	8338
25°	10854	8209	10870	8133
30°	10982	8065	11010	7969
35°	11131	1837	11154	1916
40°	11333	1910	11401	1972
45°	11632	1899	11673	1968
50°	11938	1718	12099	1764
55°	12348	1525	12447	1547
60°	12717	1355	12745	1373
65°	13018	1183	12985	1164
70°	12940	953	12901	918
75°	12176	733	12263	703
80°	10127	521	10533	477
85°	5837	312	6168	239

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 67.5°

Luminance: 13062 cd/sqm

TEST NUMBER: P1213964

CATALOG NUMBER: 8SNLED-LD5-57SL-RW-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.0	4.9
10°-20°	701.0	13.5
20°-30°	1038.3	20.0
30°-40°	1046.2	20.2
40°-50°	817.2	15.7
50°-60°	631.2	12.2
60°-70°	423.8	8.2
70°-80°	216.2	4.2
80°-90°	60.1	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°	1994.2	38.4
0°-40°	3040.4	58.6
0°-60°	4488.8	86.5
0°-90°	5189.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5189.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2591	2591	2591	2591	2591	
5°	2614	2686	2613	2819	2614	249
15°	2557	2322	2563	2395	2557	723
25°	2452	2164	2456	2144	2452	1131
35°	2281	470	2286	490	2281	1430
45°	2068	457	2075	474	2068	1594
55°	1792	332	1806	337	1792	1600
65°	1407	223	1404	220	1407	1384
75°	825	113	831	108	825	863
85°	148	36	157	27	148	204
90°	0	0	0	0	0	

TEST NUMBER: P1213964

CATALOG NUMBER: 8SNLED-LD5-57SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3
2.5°	2611.4	2620.9	2628.1	2632.8	2635.2	2635.2	2636.4	2637.6	2653.0	2660.1	2664.9
5°	2613.8	2623.3	2637.6	2656.6	2673.2	2687.4	2699.3	2715.9	2732.6	2750.4	2756.3
7.5°	2603.1	2615.0	2643.5	2677.9	2710.0	2732.6	2748.0	2758.7	2767.0	2768.2	2774.1
10°	2593.6	2615.0	2654.2	2699.3	2739.7	2767.0	2767.0	2761.1	2769.4	2737.3	2705.3
12.5°	2577.0	2600.8	2654.2	2713.6	2751.6	2762.3	2757.5	2733.8	2685.1	2645.9	2628.1
15°	2556.8	2588.9	2655.4	2721.9	2753.9	2757.5	2712.4	2651.8	2615.0	2591.3	2561.6
17.5°	2534.3	2577.0	2656.6	2723.1	2734.9	2718.3	2632.8	2594.8	2556.8	2501.0	2460.6
20°	2512.9	2554.4	2647.1	2706.4	2713.6	2638.8	2572.3	2531.9	2467.7	2419.1	2401.2
22.5°	2479.6	2528.3	2638.8	2683.9	2656.6	2569.9	2505.7	2441.6	2383.4	2369.2	2347.8
25°	2452.3	2503.4	2619.8	2656.6	2584.1	2506.9	2432.1	2357.3	2330.0	2309.8	2290.8
27.5°	2415.5	2478.4	2594.8	2606.7	2506.9	2439.2	2330.0	2296.7	2271.8	2249.2	2240.9
30°	2375.1	2452.3	2560.4	2537.8	2442.8	2343.1	2262.3	2231.4	2213.6	2189.9	2180.4
32.5°	2328.8	2413.1	2522.4	2458.2	2373.9	2249.2	2197.0	2173.2	2149.5	2131.7	2072.3
35°	2281.3	2378.7	2477.2	2382.2	2290.8	2178.0	2131.7	2110.3	2087.7	2022.4	1960.7
37.5°	2232.6	2340.7	2422.6	2300.3	2180.4	2104.4	2065.2	2041.4	1990.3	1907.2	1876.3
40°	2176.8	2294.4	2352.6	2216.0	2084.2	2029.5	1992.7	1969.0	1853.8	1817.0	1807.5
42.5°	2121.0	2249.2	2267.0	2134.0	2004.6	1950.0	1919.1	1840.7	1762.3	1743.3	1746.9
45°	2067.5	2200.5	2173.2	2017.7	1921.5	1876.3	1824.1	1716.0	1674.5	1684.0	1686.3
47.5°	2003.4	2142.4	2074.7	1901.3	1836.0	1790.8	1674.5	1609.1	1603.2	1616.3	1623.4
50°	1934.5	2077.0	1970.2	1795.6	1743.3	1689.9	1558.1	1524.8	1532.0	1545.0	1553.3
52.5°	1870.4	2003.4	1862.1	1697.0	1651.9	1529.6	1440.5	1446.4	1458.3	1473.8	1478.5
55°	1792.0	1914.3	1746.9	1597.3	1554.5	1394.2	1353.8	1368.1	1379.9	1393.0	1402.5
57.5°	1710.1	1812.2	1610.3	1485.6	1416.8	1274.3	1277.8	1287.3	1295.6	1311.1	541.5
60°	1616.3	1695.8	1460.7	1382.3	1245.7	1179.2	1182.8	1199.4	1207.7	674.5	372.9
62.5°	1518.9	1560.5	1325.3	1264.8	1089.0	1084.2	1100.9	1108.0	754.1	356.3	349.1
65°	1407.3	1398.9	1192.3	1096.1	982.1	986.9	1004.7	969.0	333.7	333.7	331.3
67.5°	1283.8	1233.9	1062.9	907.3	878.8	889.5	908.5	317.1	308.8	311.1	302.8
70°	1142.4	1072.4	928.7	768.4	777.9	788.5	306.4	287.4	283.8	277.9	261.3
72.5°	992.8	896.6	760.0	667.4	673.3	422.8	268.4	258.9	247.0	235.1	217.3
75°	825.4	700.7	558.2	558.2	566.5	241.1	233.9	218.5	205.4	190.0	179.3
77.5°	647.2	539.2	433.5	450.1	219.7	201.9	188.8	172.2	161.5	152.0	146.1
80°	473.8	376.5	326.6	292.1	171.0	153.2	140.1	130.6	125.9	119.9	112.8
82.5°	311.1	226.8	226.8	137.8	119.9	105.7	102.1	95.0	90.3	86.7	83.1
85°	148.4	131.8	99.8	84.3	74.8	67.7	65.3	61.8	61.8	60.6	59.4
87.5°	54.6	59.4	43.9	42.8	40.4	39.2	40.4	40.4	41.6	40.4	39.2
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: P1213964

CATALOG NUMBER: 8SNLED-LD5-57SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3
2.5°	2676.8	2686.3	2693.4	2705.3	2720.7	2733.8	2745.6	2762.3	2788.4	2795.5	2801.5
5°	2756.3	2759.9	2768.2	2777.7	2780.1	2786.0	2784.8	2792.0	2795.5	2803.8	2786.0
7.5°	2761.1	2742.1	2719.5	2699.3	2685.1	2672.0	2663.7	2676.8	2683.9	2689.8	2672.0
10°	2661.3	2638.8	2625.7	2613.8	2599.6	2579.4	2552.1	2558.0	2555.6	2555.6	2549.7
12.5°	2598.4	2566.3	2533.1	2503.4	2490.3	2489.1	2490.3	2503.4	2503.4	2502.2	2495.1
15°	2499.8	2468.9	2452.3	2445.2	2445.2	2441.6	2441.6	2455.9	2452.3	2452.3	2448.7
17.5°	2434.5	2413.1	2401.2	2392.9	2389.4	2395.3	2402.4	2408.4	2409.6	2404.8	2385.8
20°	2381.1	2360.9	2346.6	2349.0	2347.8	2351.4	2354.9	2334.7	2309.8	2276.6	2261.1
22.5°	2325.2	2309.8	2299.1	2299.1	2284.9	2262.3	2229.0	2221.9	2218.4	2202.9	2189.9
25°	2271.8	2254.0	2238.5	2191.0	2161.4	2164.9	2159.0	2147.1	2145.9	2144.7	2149.5
27.5°	2218.4	2172.0	2112.7	2105.5	2093.7	2092.5	2099.6	2105.5	2105.5	2110.3	2116.2
30°	2107.9	2054.5	2043.8	2030.7	2035.5	2052.1	2055.7	2064.0	2066.4	2074.7	2079.4
32.5°	2007.0	1983.2	1973.7	1979.7	1995.1	2009.3	2017.7	2021.2	2027.2	2034.3	2040.2
35°	1925.0	1917.9	1926.2	1939.3	1954.7	1966.6	1973.7	1980.8	1986.8	1992.7	1997.5
37.5°	1864.5	1869.2	1881.1	1897.7	1913.2	1922.7	1928.6	1936.9	1945.2	1952.3	1923.8
40°	1807.5	1819.3	1832.4	1850.2	1863.3	1872.8	1878.7	1889.4	1818.2	823.0	451.3
42.5°	1757.6	1770.7	1780.2	1794.4	1808.7	1815.8	1763.5	787.4	445.3	443.0	448.9
45°	1697.0	1707.7	1723.1	1733.8	1746.9	1147.2	438.2	443.0	435.8	440.6	443.0
47.5°	1635.3	1651.9	1660.2	1584.2	471.5	435.8	431.1	435.8	431.1	437.0	433.5
50°	1565.2	1585.4	1128.2	426.3	422.8	420.4	425.1	422.8	426.3	431.1	421.6
52.5°	1493.9	925.1	413.3	410.9	413.3	410.9	419.2	413.3	414.5	409.7	397.8
55°	505.9	400.2	396.6	395.5	402.6	402.6	402.6	393.1	387.1	375.3	367.0
57.5°	387.1	387.1	386.0	387.1	384.8	382.4	371.7	363.4	355.1	338.5	333.7
60°	367.0	367.0	367.0	367.0	356.3	351.5	334.9	327.8	313.5	305.2	300.5
62.5°	350.3	348.0	337.3	333.7	321.8	308.8	299.3	292.1	277.9	273.1	269.6
65°	326.6	318.3	305.2	291.0	285.0	270.8	266.0	255.3	248.2	244.6	242.3
67.5°	287.4	275.5	264.8	255.3	244.6	239.9	233.9	225.6	220.9	218.5	216.1
70°	245.8	237.5	226.8	220.9	213.8	210.2	201.9	199.5	195.9	192.4	188.8
72.5°	205.4	200.7	195.9	187.6	185.3	182.9	174.6	169.8	165.1	160.3	157.9
75°	172.2	168.6	166.3	159.1	155.6	148.4	142.5	138.9	135.4	131.8	129.4
77.5°	141.3	138.9	131.8	127.1	124.7	118.8	116.4	117.6	115.2	110.4	108.1
80°	110.4	108.1	102.1	102.1	99.8	97.4	95.0	92.6	90.3	86.7	84.3
82.5°	84.3	81.9	79.6	77.2	74.8	73.6	72.4	70.1	67.7	65.3	64.1
85°	59.4	58.2	57.0	55.8	54.6	53.4	52.3	49.9	47.5	46.3	45.1
87.5°	40.4	39.2	38.0	36.8	35.6	34.4	33.3	32.1	29.7	28.5	27.3
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: P1213964

CATALOG NUMBER: 8SNLED-LD5-57SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3
2.5°	2801.5	2807.4	2801.5	2788.4	2780.1	2776.5	2783.6	2783.6	2788.4	2794.3	2795.5
5°	2757.5	2743.3	2726.6	2710.0	2701.7	2696.9	2683.9	2686.3	2689.8	2692.2	2694.6
7.5°	2648.3	2629.3	2606.7	2585.3	2577.0	2569.9	2554.4	2554.4	2554.4	2555.6	2562.8
10°	2536.6	2528.3	2518.8	2504.6	2493.9	2490.3	2477.2	2480.8	2478.4	2482.0	2490.3
12.5°	2484.4	2474.9	2466.6	2452.3	2440.4	2435.7	2429.7	2433.3	2432.1	2438.1	2445.2
15°	2436.9	2432.1	2422.6	2411.9	2401.2	2391.7	2370.4	2363.2	2358.5	2352.6	2360.9
17.5°	2358.5	2325.2	2302.7	2286.1	2274.2	2265.9	2259.9	2259.9	2263.5	2267.0	2274.2
20°	2251.6	2242.1	2231.4	2213.6	2201.7	2197.0	2193.4	2193.4	2199.4	2204.1	2217.2
22.5°	2178.0	2176.8	2173.2	2164.9	2159.0	2159.0	2160.2	2162.5	2170.9	2178.0	2191.0
25°	2143.5	2148.3	2145.9	2141.2	2137.6	2138.8	2136.4	2138.8	2147.1	2154.2	2164.9
27.5°	2116.2	2123.4	2121.0	2113.9	2107.9	2110.3	2113.9	2111.5	2118.6	2126.9	2135.2
30°	2079.4	2080.6	2085.4	2077.0	2074.7	2078.2	2079.4	2081.8	2088.9	2094.9	2102.0
32.5°	2037.9	2047.4	2046.2	2037.9	2037.9	2041.4	2042.6	1963.0	1814.6	1562.8	1493.9
35°	1997.5	2008.2	1990.3	1678.0	1161.4	619.9	478.6	462.0	465.5	467.9	470.3
37.5°	1477.3	700.7	446.5	450.1	453.6	457.2	460.8	464.3	467.9	471.5	472.6
40°	444.1	443.0	446.5	451.3	454.8	457.2	462.0	465.5	469.1	472.6	473.8
42.5°	439.4	441.8	445.3	450.1	454.8	459.6	463.1	467.9	470.3	472.6	473.8
45°	437.0	441.8	446.5	450.1	453.6	456.0	458.4	459.6	458.4	458.4	460.8
47.5°	433.5	438.2	439.4	438.2	439.4	438.2	438.2	438.2	434.6	433.5	433.5
50°	420.4	420.4	418.0	413.3	412.1	410.9	408.5	407.3	402.6	401.4	401.4
52.5°	393.1	391.9	388.3	382.4	380.0	377.6	376.5	375.3	370.5	368.1	369.3
55°	361.0	358.6	355.1	348.0	346.8	344.4	343.2	342.0	337.3	339.6	336.1
57.5°	331.3	326.6	321.8	320.6	315.9	314.7	313.5	312.3	308.8	310.0	307.6
60°	295.7	294.5	292.1	287.4	287.4	286.2	286.2	283.8	281.5	280.3	280.3
62.5°	269.6	266.0	263.6	263.6	260.1	260.1	260.1	257.7	255.3	256.5	255.3
65°	241.1	239.9	238.7	236.3	236.3	235.1	235.1	232.8	229.2	230.4	228.0
67.5°	217.3	214.9	212.6	211.4	206.6	204.3	203.1	201.9	197.1	198.3	195.9
70°	187.6	184.1	181.7	179.3	175.8	173.4	173.4	171.0	167.4	168.6	166.3
72.5°	156.8	154.4	152.0	150.8	147.3	146.1	144.9	143.7	140.1	141.3	140.1
75°	130.6	130.6	129.4	128.3	124.7	121.1	118.8	117.6	115.2	116.4	114.0
77.5°	108.1	105.7	103.3	103.3	99.8	97.4	95.0	95.0	95.0	93.8	92.6
80°	84.3	81.9	81.9	80.8	78.4	76.0	74.8	74.8	73.6	73.6	72.4
82.5°	64.1	61.8	60.6	60.6	58.2	57.0	55.8	54.6	54.6	54.6	53.4
85°	45.1	42.8	41.6	41.6	39.2	38.0	38.0	36.8	36.8	35.6	35.6
87.5°	27.3	26.1	24.9	24.9	22.6	21.4	21.4	21.4	20.2	20.2	19.0
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: P1213964

CATALOG NUMBER: 8SNLED-LD5-57SL-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°	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3
2.5°	2795.5	2795.5	2787.2	2789.6	2786.0	2790.8	2784.8	2784.8	2792.0	2792.0	2796.7
5°	2695.8	2689.8	2688.6	2686.3	2674.4	2679.1	2673.2	2667.3	2675.6	2675.6	2686.3
7.5°	2559.2	2548.5	2553.3	2546.1	2539.0	2528.3	2531.9	2527.1	2533.1	2541.4	2552.1
10°	2489.1	2479.6	2485.6	2478.4	2482.0	2466.6	2467.7	2468.9	2474.9	2477.2	2486.7
12.5°	2444.0	2441.6	2439.2	2436.9	2439.2	2430.9	2426.2	2427.4	2429.7	2430.9	2438.1
15°	2349.0	2333.6	2338.3	2321.7	2322.9	2324.1	2314.6	2324.1	2322.9	2338.3	2352.6
17.5°	2271.8	2271.8	2263.5	2256.4	2251.6	2250.4	2243.3	2248.0	2243.3	2252.8	2256.4
20°	2218.4	2217.2	2216.0	2212.4	2200.5	2201.7	2205.3	2194.6	2193.4	2192.2	2199.4
22.5°	2193.4	2194.6	2189.9	2189.9	2179.2	2181.5	2182.7	2170.9	2172.0	2168.5	2172.0
25°	2167.3	2169.7	2163.7	2163.7	2161.4	2160.2	2154.2	2156.6	2149.5	2143.5	2149.5
27.5°	2136.4	2141.2	2136.4	2138.8	2134.0	2131.7	2128.1	2125.7	2118.6	2117.4	2121.0
30°	2107.9	2110.3	2109.1	2103.2	2102.0	2094.9	2098.4	2091.3	2084.2	2085.4	2087.7
32.5°	1080.7	1032.0	795.7	718.5	711.3	737.5	874.0	1064.1	1378.8	1684.0	1903.7
35°	471.5	471.5	471.5	470.3	470.3	469.1	467.9	466.7	465.5	464.3	463.1
37.5°	473.8	473.8	473.8	473.8	472.6	471.5	471.5	469.1	467.9	466.7	465.5
40°	475.0	476.2	476.2	476.2	475.0	475.0	473.8	471.5	470.3	467.9	465.5
42.5°	473.8	475.0	475.0	473.8	473.8	472.6	472.6	471.5	470.3	469.1	467.9
45°	458.4	459.6	457.2	457.2	456.0	456.0	456.0	456.0	456.0	457.2	457.2
47.5°	431.1	431.1	429.9	428.7	428.7	427.5	428.7	427.5	429.9	431.1	433.5
50°	399.0	399.0	396.6	395.5	395.5	395.5	395.5	396.6	397.8	400.2	402.6
52.5°	365.8	365.8	364.6	363.4	362.2	362.2	365.8	364.6	365.8	367.0	370.5
55°	333.7	334.9	332.5	332.5	331.3	331.3	331.3	332.5	333.7	334.9	338.5
57.5°	306.4	306.4	304.0	304.0	304.0	302.8	306.4	304.0	305.2	306.4	308.8
60°	279.1	277.9	277.9	276.7	276.7	276.7	279.1	277.9	277.9	279.1	281.5
62.5°	254.1	254.1	253.0	253.0	251.8	251.8	254.1	253.0	253.0	254.1	255.3
65°	225.6	225.6	224.4	223.3	226.8	223.3	226.8	224.4	226.8	228.0	230.4
67.5°	193.6	193.6	193.6	192.4	192.4	194.8	195.9	193.6	194.8	197.1	198.3
70°	165.1	165.1	163.9	163.9	163.9	166.3	167.4	165.1	166.3	167.4	169.8
72.5°	140.1	137.8	137.8	136.6	138.9	138.9	140.1	138.9	140.1	140.1	142.5
75°	115.2	112.8	112.8	112.8	115.2	114.0	115.2	114.0	115.2	115.2	116.4
77.5°	92.6	91.4	90.3	90.3	92.6	92.6	92.6	91.4	92.6	93.8	95.0
80°	72.4	71.3	70.1	70.1	72.4	72.4	72.4	73.6	72.4	73.6	74.8
82.5°	53.4	52.3	51.1	53.4	53.4	53.4	53.4	54.6	53.4	54.6	55.8
85°	35.6	34.4	33.3	35.6	35.6	35.6	35.6	36.8	35.6	36.8	38.0
87.5°	19.0	17.8	17.8	19.0	19.0	19.0	20.2	20.2	20.2	21.4	21.4
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: P1213964

CATALOG NUMBER: 8SNLED-LD5-57SL-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°	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3
2.5°	2803.8	2807.4	2806.2	2799.1	2792.0	2783.6	2777.7	2778.9	2790.8	2794.3	2783.6
5°	2686.3	2708.8	2708.8	2724.3	2715.9	2708.8	2713.6	2739.7	2752.8	2772.9	2780.1
7.5°	2565.1	2575.8	2574.6	2590.1	2587.7	2587.7	2591.3	2625.7	2642.3	2658.9	2663.7
10°	2497.4	2508.1	2506.9	2508.1	2504.6	2496.2	2496.2	2511.7	2525.9	2534.3	2536.6
12.5°	2448.7	2454.7	2453.5	2453.5	2451.1	2444.0	2442.8	2455.9	2471.3	2482.0	2483.2
15°	2376.3	2392.9	2396.5	2411.9	2408.4	2398.9	2401.2	2411.9	2421.4	2430.9	2427.4
17.5°	2268.2	2276.6	2277.7	2283.7	2281.3	2281.3	2295.6	2334.7	2360.9	2383.4	2385.8
20°	2206.5	2212.4	2210.0	2223.1	2217.2	2216.0	2219.5	2236.2	2248.0	2258.7	2277.7
22.5°	2176.8	2181.5	2178.0	2179.2	2168.5	2159.0	2156.6	2169.7	2182.7	2197.0	2197.0
25°	2151.9	2155.4	2154.2	2151.9	2143.5	2130.5	2128.1	2130.5	2135.2	2136.4	2128.1
27.5°	2122.2	2124.5	2124.5	2125.7	2115.0	2103.2	2100.8	2098.4	2103.2	2102.0	2088.9
30°	2091.3	2087.7	2088.9	2090.1	2080.6	2069.9	2065.2	2064.0	2068.7	2067.5	2054.5
32.5°	2017.7	2045.0	2047.4	2049.7	2041.4	2031.9	2027.2	2023.6	2026.0	2024.8	2012.9
35°	462.0	470.3	576.0	1303.9	1770.7	1960.7	1980.8	1976.1	1977.3	1977.3	1967.8
37.5°	463.1	462.0	460.8	457.2	453.6	451.3	780.2	1663.8	1927.4	1928.6	1920.3
40°	463.1	462.0	460.8	458.4	453.6	450.1	444.1	439.4	450.1	990.4	1812.2
42.5°	465.5	463.1	460.8	458.4	453.6	448.9	444.1	438.2	441.8	439.4	433.5
45°	458.4	457.2	457.2	456.0	453.6	448.9	443.0	435.8	432.3	435.8	429.9
47.5°	435.8	437.0	440.6	441.8	441.8	443.0	439.4	434.6	428.7	432.3	425.1
50°	405.0	407.3	408.5	414.5	416.8	421.6	422.8	422.8	421.6	426.3	421.6
52.5°	371.7	374.1	380.0	382.4	384.8	391.9	394.3	397.8	400.2	407.3	412.1
55°	339.6	340.8	343.2	348.0	351.5	357.5	361.0	364.6	370.5	374.1	388.3
57.5°	310.0	311.1	315.9	317.1	319.5	324.2	327.8	332.5	337.3	339.6	356.3
60°	281.5	282.6	286.2	287.4	288.6	293.3	296.9	300.5	304.0	306.4	318.3
62.5°	256.5	256.5	260.1	260.1	261.3	264.8	267.2	269.6	273.1	274.3	280.3
65°	231.6	232.8	235.1	235.1	236.3	238.7	239.9	241.1	244.6	244.6	249.4
67.5°	200.7	201.9	205.4	207.8	209.0	213.8	214.9	216.1	218.5	219.7	222.1
70°	171.0	172.2	175.8	176.9	178.1	181.7	184.1	187.6	191.2	194.8	197.1
72.5°	143.7	144.9	148.4	148.4	152.0	153.2	155.6	156.8	160.3	162.7	166.3
75°	117.6	118.8	122.3	122.3	125.9	127.1	128.3	129.4	131.8	134.2	136.6
77.5°	96.2	96.2	100.9	103.3	105.7	105.7	106.9	106.9	106.9	108.1	110.4
80°	76.0	76.0	79.6	81.9	84.3	84.3	85.5	86.7	87.9	87.9	89.1
82.5°	57.0	57.0	60.6	61.8	64.1	64.1	64.1	65.3	66.5	65.3	67.7
85°	39.2	39.2	41.6	42.8	45.1	45.1	45.1	46.3	47.5	46.3	47.5
87.5°	22.6	23.8	24.9	26.1	27.3	28.5	28.5	28.5	29.7	29.7	30.9
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: P1213964

CATALOG NUMBER: 8SNLED-LD5-57SL-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°	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3
2.5°	2771.8	2757.5	2756.3	2739.7	2734.9	2736.1	2723.1	2718.3	2696.9	2692.2	2669.6
5°	2782.5	2789.6	2786.0	2784.8	2788.4	2786.0	2776.5	2771.8	2768.2	2758.7	2739.7
7.5°	2664.9	2669.6	2673.2	2688.6	2701.7	2724.3	2748.0	2763.4	2775.3	2777.7	2762.3
10°	2544.9	2567.5	2582.9	2606.7	2625.7	2638.8	2653.0	2666.1	2700.5	2734.9	2755.1
12.5°	2483.2	2489.1	2487.9	2501.0	2514.1	2548.5	2581.8	2600.8	2626.9	2642.3	2679.1
15°	2430.9	2432.1	2435.7	2445.2	2452.3	2464.2	2479.6	2508.1	2560.4	2584.1	2604.3
17.5°	2383.4	2383.4	2385.8	2394.1	2403.6	2414.3	2423.8	2435.7	2461.8	2501.0	2550.9
20°	2307.4	2340.7	2344.2	2343.1	2347.8	2368.0	2370.4	2391.7	2404.8	2420.2	2468.9
22.5°	2194.6	2214.8	2243.3	2287.2	2303.9	2313.4	2320.5	2330.0	2350.2	2368.0	2388.2
25°	2132.9	2145.9	2154.2	2167.3	2201.7	2257.5	2268.2	2278.9	2292.0	2305.1	2330.0
27.5°	2078.2	2077.0	2083.0	2094.9	2104.4	2134.0	2186.3	2227.9	2230.2	2249.2	2270.6
30°	2039.0	2031.9	2023.6	2021.2	2034.3	2049.7	2065.2	2130.5	2175.6	2185.1	2207.7
32.5°	2002.2	1990.3	1978.5	1969.0	1960.7	1973.7	1983.2	2011.7	2069.9	2124.5	2136.4
35°	1957.1	1945.2	1931.0	1920.3	1907.2	1906.0	1904.8	1932.2	1951.2	2016.5	2073.5
37.5°	1910.8	1897.7	1885.8	1874.0	1860.9	1851.4	1845.5	1852.6	1870.4	1898.9	1993.9
40°	1862.1	1846.7	1834.8	1825.3	1807.5	1800.3	1788.5	1783.7	1784.9	1809.8	1859.7
42.5°	1112.7	1774.2	1780.2	1769.5	1754.0	1744.5	1731.5	1725.5	1713.6	1725.5	1754.0
45°	428.7	433.5	1298.0	1714.8	1695.8	1684.0	1672.1	1666.1	1653.1	1643.6	1669.7
47.5°	420.4	425.1	415.6	589.0	1618.6	1622.2	1608.0	1602.0	1589.0	1581.8	1574.7
50°	414.5	418.0	410.9	413.3	405.0	1483.3	1542.6	1535.5	1521.3	1512.9	1498.7
52.5°	408.5	408.5	403.8	397.8	395.5	396.6	1248.1	1467.8	1451.2	1442.9	1423.9
55°	389.5	391.9	396.6	387.1	384.8	383.6	380.0	1188.7	1374.0	1364.5	1347.9
57.5°	361.0	365.8	378.8	376.5	376.5	367.0	364.6	364.6	1103.2	1284.9	1268.3
60°	327.8	332.5	346.8	351.5	355.1	352.7	350.3	349.1	344.4	1162.6	1184.0
62.5°	293.3	298.1	302.8	318.3	323.0	329.0	336.1	332.5	327.8	327.8	1094.9
65°	256.5	263.6	266.0	280.3	286.2	296.9	302.8	311.1	308.8	307.6	313.5
67.5°	224.4	232.8	233.9	239.9	250.6	255.3	262.5	277.9	285.0	287.4	289.8
70°	197.1	201.9	205.4	207.8	214.9	216.1	229.2	239.9	250.6	262.5	266.0
72.5°	169.8	173.4	180.5	178.1	180.5	185.3	192.4	199.5	210.2	226.8	237.5
75°	138.9	141.3	146.1	148.4	153.2	156.8	161.5	167.4	176.9	185.3	199.5
77.5°	111.6	112.8	116.4	117.6	122.3	125.9	134.2	137.8	143.7	149.6	157.9
80°	90.3	90.3	91.4	91.4	95.0	98.6	104.5	108.1	115.2	119.9	119.9
82.5°	68.9	68.9	72.4	72.4	74.8	74.8	78.4	78.4	81.9	84.3	86.7
85°	48.7	49.9	52.3	51.1	53.4	52.3	54.6	57.0	58.2	57.0	55.8
87.5°	32.1	32.1	34.4	33.3	34.4	34.4	36.8	36.8	38.0	38.0	36.8
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: P1213964

CATALOG NUMBER: 8SNLED-LD5-57SL-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°	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3
2.5°	2661.3	2643.5	2632.8	2619.8	2616.2	2612.6	2617.4	2617.4	2610.3	2604.3	2593.6
5°	2723.1	2704.1	2683.9	2662.5	2642.3	2620.9	2612.6	2611.4	2598.4	2591.3	2587.7
7.5°	2755.1	2745.6	2723.1	2693.4	2662.5	2624.5	2607.9	2598.4	2585.3	2582.9	2582.9
10°	2758.7	2748.0	2736.1	2714.8	2679.1	2629.3	2597.2	2578.2	2566.3	2574.6	2590.1
12.5°	2724.3	2744.4	2733.8	2719.5	2691.0	2630.4	2584.1	2555.6	2552.1	2573.4	2613.8
15°	2636.4	2695.8	2725.4	2711.2	2688.6	2628.1	2562.8	2529.5	2529.5	2573.4	2625.7
17.5°	2569.9	2616.2	2688.6	2700.5	2674.4	2623.3	2542.6	2503.4	2514.1	2578.2	2634.0
20°	2515.2	2543.8	2613.8	2680.3	2655.4	2612.6	2512.9	2472.5	2493.9	2571.1	2645.9
22.5°	2429.7	2486.7	2529.5	2628.1	2636.4	2592.4	2483.2	2434.5	2477.2	2571.1	2639.9
25°	2346.6	2415.5	2460.6	2556.8	2607.9	2567.5	2455.9	2394.1	2459.4	2567.5	2635.2
27.5°	2288.4	2320.5	2402.4	2471.3	2565.1	2534.3	2419.1	2350.2	2436.9	2548.5	2607.9
30°	2226.7	2248.0	2328.8	2394.1	2508.1	2496.2	2381.1	2301.5	2408.4	2530.7	2536.6
32.5°	2159.0	2182.7	2224.3	2319.3	2428.6	2460.6	2338.3	2252.8	2377.5	2503.4	2453.5
35°	2090.1	2107.9	2141.2	2243.3	2335.9	2407.2	2286.1	2197.0	2356.1	2461.8	2373.9
37.5°	2021.2	2040.2	2068.7	2154.2	2238.5	2357.3	2240.9	2141.2	2316.9	2388.2	2290.8
40°	1955.9	1966.6	1996.3	2049.7	2157.8	2306.2	2189.9	2083.0	2276.6	2294.4	2178.0
42.5°	1836.0	1889.4	1916.7	1959.5	2066.4	2236.2	2130.5	2021.2	2231.4	2200.5	2065.2
45°	1706.5	1822.9	1834.8	1877.5	1985.6	2161.4	2074.7	1960.7	2188.7	2119.8	1958.3
47.5°	1600.8	1685.1	1754.0	1789.7	1889.4	2073.5	2022.4	1909.6	2124.5	2017.7	1853.8
50°	1507.0	1552.1	1676.8	1703.0	1774.2	1967.8	1960.7	1850.2	2035.5	1889.4	1751.6
52.5°	1415.6	1447.6	1560.5	1616.3	1674.5	1853.8	1887.0	1792.0	1938.1	1761.1	1648.3
55°	1336.0	1346.7	1408.4	1526.0	1578.3	1738.6	1806.3	1724.3	1814.6	1638.8	1548.6
57.5°	1254.1	1244.6	1289.7	1440.5	1478.5	1621.0	1720.8	1655.5	1714.8	1514.1	1445.3
60°	1168.6	1155.5	1174.5	1274.3	1372.8	1504.6	1619.8	1579.5	1593.7	1390.6	1330.1
62.5°	1079.5	1066.4	1060.5	1123.4	1269.5	1384.7	1517.7	1495.1	1445.3	1277.8	1187.6
65°	986.9	973.8	964.3	989.2	1155.5	1229.1	1403.7	1397.8	1282.6	1159.1	999.9
67.5°	300.5	885.9	865.7	864.5	973.8	1087.8	1280.2	1270.7	1118.7	1032.0	861.0
70°	270.8	718.5	763.6	752.9	800.4	944.1	1138.9	1131.7	959.5	827.7	761.2
72.5°	248.2	254.1	674.5	662.7	673.3	802.8	991.6	972.6	813.5	653.2	657.9
75°	212.6	223.3	232.8	559.3	545.1	665.0	831.3	801.6	671.0	539.2	549.8
77.5°	173.4	186.4	193.6	407.3	440.6	473.8	663.8	624.7	462.0	431.1	205.4
80°	129.4	140.1	152.0	162.7	334.9	331.3	492.8	453.6	321.8	268.4	160.3
82.5°	95.0	98.6	105.7	117.6	133.0	222.1	317.1	279.1	223.3	122.3	110.4
85°	59.4	64.1	67.7	71.3	80.8	133.0	156.8	124.7	93.8	74.8	70.1
87.5°	38.0	38.0	36.8	38.0	39.2	47.5	53.4	51.1	40.4	38.0	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: P1213964

CATALOG NUMBER: 8SNLED-LD5-57SL-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°	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3
2.5°	2581.8	2565.1	2565.1	2560.4	2563.9	2563.9	2562.8	2563.9	2572.3	2577.0	2585.3
5°	2580.6	2575.8	2586.5	2599.6	2615.0	2634.0	2638.8	2655.4	2670.8	2691.0	2712.4
7.5°	2596.0	2612.6	2632.8	2654.2	2685.1	2707.6	2727.8	2748.0	2762.3	2781.3	2793.1
10°	2618.6	2651.8	2686.3	2713.6	2746.8	2765.8	2778.9	2781.3	2761.1	2729.0	2702.9
12.5°	2650.6	2689.8	2721.9	2748.0	2763.4	2756.3	2718.3	2679.1	2656.6	2623.3	2577.0
15°	2677.9	2713.6	2746.8	2736.1	2694.6	2655.4	2625.7	2579.4	2534.3	2503.4	2483.2
17.5°	2689.8	2724.3	2712.4	2656.6	2617.4	2572.3	2511.7	2476.1	2446.4	2422.6	2410.7
20°	2696.9	2691.0	2626.9	2586.5	2510.5	2468.9	2429.7	2396.5	2373.9	2362.1	2359.7
22.5°	2677.9	2605.5	2550.9	2478.4	2422.6	2388.2	2357.3	2330.0	2314.6	2305.1	2299.1
25°	2615.0	2530.7	2449.9	2392.9	2345.4	2315.7	2292.0	2269.4	2250.4	2245.7	2233.8
27.5°	2527.1	2458.2	2351.4	2307.4	2265.9	2251.6	2225.5	2202.9	2186.3	2172.0	2134.0
30°	2454.7	2345.4	2268.2	2227.9	2202.9	2186.3	2156.6	2132.9	2104.4	2052.1	2030.7
32.5°	2365.6	2257.5	2183.9	2161.4	2130.5	2116.2	2083.0	2030.7	1986.8	1965.4	1964.2
35°	2250.4	2161.4	2107.9	2087.7	2062.8	2039.0	1970.2	1922.7	1901.3	1903.7	1921.5
37.5°	2154.2	2074.7	2040.2	2011.7	1983.2	1922.7	1864.5	1841.9	1847.8	1859.7	1868.0
40°	2056.9	1996.3	1957.1	1934.5	1870.4	1811.0	1780.2	1788.5	1799.2	1807.5	1818.2
42.5°	1961.8	1919.1	1879.9	1836.0	1748.1	1716.0	1723.1	1733.8	1743.3	1755.2	1765.9
45°	1871.6	1833.6	1788.5	1688.7	1644.8	1653.1	1663.8	1672.1	1686.3	1694.6	1705.3
47.5°	1786.1	1745.7	1666.1	1578.3	1573.5	1590.1	1599.6	1610.3	1621.0	1599.6	882.4
50°	1689.9	1648.3	1527.2	1493.9	1504.6	1520.1	1532.0	1542.6	1374.0	546.3	420.4
52.5°	1594.9	1489.2	1412.0	1421.5	1432.2	1450.0	1458.3	1083.1	431.1	410.9	412.1
55°	1489.2	1353.8	1331.3	1343.1	1352.6	1370.4	908.5	397.8	395.5	394.3	403.8
57.5°	1322.9	1241.0	1250.5	1262.4	1271.9	897.8	387.1	384.8	386.0	387.1	388.3
60°	1174.5	1156.7	1167.4	1178.1	833.7	374.1	367.0	368.1	372.9	369.3	359.8
62.5°	1056.9	1071.2	1081.9	947.7	355.1	351.5	355.1	351.5	343.2	337.3	325.4
65°	966.7	980.9	989.2	333.7	332.5	337.3	333.7	321.8	308.8	292.1	288.6
67.5°	871.7	885.9	317.1	308.8	313.5	307.6	293.3	279.1	269.6	255.3	249.4
70°	773.1	331.3	287.4	286.2	277.9	268.4	253.0	238.7	226.8	220.9	214.9
72.5°	558.2	262.5	258.9	249.4	235.1	222.1	209.0	200.7	194.8	191.2	187.6
75°	232.8	228.0	217.3	200.7	186.4	180.5	171.0	165.1	162.7	155.6	153.2
77.5°	194.8	185.3	169.8	157.9	149.6	146.1	138.9	131.8	128.3	127.1	122.3
80°	149.6	136.6	129.4	123.5	121.1	112.8	104.5	100.9	98.6	97.4	93.8
82.5°	102.1	97.4	92.6	84.3	84.3	80.8	77.2	74.8	72.4	72.4	70.1
85°	66.5	62.9	61.8	58.2	58.2	55.8	54.6	53.4	52.3	51.1	49.9
87.5°	38.0	38.0	39.2	38.0	38.0	36.8	35.6	34.4	33.3	33.3	30.9
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: P1213964

CATALOG NUMBER: 8SNLED-LD5-57SL-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°	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3
2.5°	2596.0	2607.9	2610.3	2650.6	2673.2	2672.0	2664.9	2686.3	2673.2	2666.1	2673.2
5°	2733.8	2748.0	2759.9	2803.8	2819.3	2826.4	2825.2	2837.1	2827.6	2819.3	2819.3
7.5°	2801.5	2806.2	2811.0	2800.3	2793.1	2781.3	2763.4	2737.3	2724.3	2710.0	2692.2
10°	2689.8	2674.4	2680.3	2658.9	2641.1	2628.1	2611.4	2590.1	2572.3	2559.2	2539.0
12.5°	2553.3	2552.1	2554.4	2558.0	2540.2	2529.5	2516.4	2501.0	2487.9	2473.7	2457.1
15°	2470.1	2471.3	2480.8	2477.2	2471.3	2465.4	2451.1	2446.4	2434.5	2419.1	2409.6
17.5°	2410.7	2416.7	2426.2	2421.4	2411.9	2406.0	2395.3	2384.6	2373.9	2362.1	2347.8
20°	2358.5	2364.4	2370.4	2364.4	2346.6	2338.3	2324.1	2290.8	2267.0	2243.3	2221.9
22.5°	2301.5	2305.1	2300.3	2281.3	2236.2	2214.8	2198.2	2188.7	2168.5	2155.4	2142.4
25°	2230.2	2210.0	2179.2	2157.8	2140.0	2130.5	2123.4	2122.2	2119.8	2117.4	2111.5
27.5°	2113.9	2106.7	2090.1	2081.8	2083.0	2086.5	2087.7	2091.3	2087.7	2083.0	2078.2
30°	2027.2	2030.7	2031.9	2034.3	2040.2	2043.8	2045.0	2049.7	2047.4	2043.8	2041.4
32.5°	1972.5	1980.8	1985.6	1992.7	1996.3	2002.2	2002.2	2009.3	2002.2	2001.0	1998.7
35°	1927.4	1934.5	1936.9	1947.6	1951.2	1957.1	1957.1	1963.0	1957.1	1896.5	1497.5
37.5°	1882.3	1889.4	1894.2	1903.7	1904.8	1908.4	1761.1	1288.5	831.3	643.7	491.6
40°	1828.8	1837.2	1841.9	1845.5	1296.8	823.0	566.5	460.8	460.8	464.3	467.9
42.5°	1771.8	1777.8	1238.6	720.8	448.9	447.7	451.3	454.8	458.4	463.1	467.9
45°	1393.0	703.0	446.5	435.8	439.4	444.1	448.9	453.6	459.6	464.3	466.7
47.5°	457.2	428.7	434.6	429.9	435.8	441.8	446.5	451.3	452.5	453.6	452.5
50°	422.8	422.8	426.3	426.3	431.1	433.5	433.5	433.5	428.7	427.5	424.0
52.5°	408.5	418.0	413.3	415.6	413.3	409.7	406.1	402.6	395.5	393.1	388.3
55°	401.4	405.0	393.1	389.5	384.8	375.3	370.5	365.8	359.8	357.5	351.5
57.5°	384.8	376.5	363.4	357.5	349.1	339.6	334.9	331.3	325.4	323.0	319.5
60°	353.9	337.3	329.0	321.8	312.3	304.0	300.5	298.1	293.3	292.1	288.6
62.5°	315.9	301.6	294.5	285.0	277.9	273.1	269.6	268.4	263.6	263.6	261.3
65°	274.3	267.2	261.3	251.8	248.2	243.4	242.3	241.1	238.7	237.5	235.1
67.5°	241.1	236.3	228.0	223.3	220.9	217.3	214.9	212.6	207.8	205.4	201.9
70°	211.4	207.8	199.5	195.9	191.2	185.3	181.7	179.3	175.8	173.4	169.8
72.5°	182.9	172.2	166.3	162.7	159.1	153.2	152.0	149.6	146.1	144.9	141.3
75°	147.3	138.9	135.4	133.0	129.4	125.9	125.9	125.9	122.3	121.1	119.9
77.5°	117.6	112.8	110.4	108.1	106.9	104.5	100.9	99.8	96.2	96.2	95.0
80°	90.3	87.9	85.5	84.3	83.1	80.8	78.4	77.2	73.6	73.6	72.4
82.5°	66.5	65.3	64.1	62.9	61.8	60.6	57.0	55.8	53.4	53.4	52.3
85°	47.5	46.3	43.9	42.8	42.8	41.6	38.0	36.8	34.4	34.4	34.4
87.5°	29.7	28.5	27.3	26.1	24.9	23.8	21.4	20.2	20.2	17.8	16.6
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: P1213964

CATALOG NUMBER: 8SNLED-LD5-57SL-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°	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3
2.5°	2658.9	2679.1	2676.8	2691.0	2694.6	2701.7	2704.1	2705.3	2687.4	2701.7	2702.9
5°	2815.7	2819.3	2821.6	2827.6	2833.5	2834.7	2828.8	2821.6	2824.0	2819.3	2807.4
7.5°	2689.8	2672.0	2668.4	2663.7	2661.3	2658.9	2648.3	2657.8	2647.1	2642.3	2625.7
10°	2535.4	2518.8	2517.6	2517.6	2521.2	2520.0	2517.6	2512.9	2522.4	2516.4	2512.9
12.5°	2454.7	2448.7	2452.3	2449.9	2459.4	2461.8	2459.4	2459.4	2457.1	2452.3	2454.7
15°	2406.0	2401.2	2404.8	2401.2	2408.4	2409.6	2403.6	2407.2	2401.2	2395.3	2392.9
17.5°	2341.9	2331.2	2322.9	2311.0	2312.2	2309.8	2302.7	2302.7	2296.7	2281.3	2282.5
20°	2218.4	2207.7	2202.9	2202.9	2208.9	2211.2	2210.0	2212.4	2206.5	2204.1	2194.6
22.5°	2141.2	2140.0	2142.4	2148.3	2157.8	2170.9	2172.0	2172.0	2172.0	2170.9	2159.0
25°	2113.9	2113.9	2116.2	2124.5	2131.7	2141.2	2143.5	2145.9	2143.5	2143.5	2132.9
27.5°	2083.0	2080.6	2085.4	2093.7	2102.0	2109.1	2115.0	2116.2	2112.7	2112.7	2116.2
30°	2045.0	2043.8	2049.7	2058.0	2065.2	2072.3	2078.2	2083.0	2078.2	2078.2	2074.7
32.5°	2005.8	2005.8	2008.2	1958.3	1815.8	1635.3	1638.8	1534.3	1461.9	1370.4	1491.6
35°	1251.7	910.9	782.6	662.7	578.3	523.7	522.5	504.7	496.4	490.5	489.3
37.5°	472.6	475.0	479.8	482.1	485.7	488.1	489.3	489.3	489.3	489.3	488.1
40°	471.5	476.2	479.8	483.3	486.9	489.3	489.3	490.5	491.6	491.6	491.6
42.5°	472.6	477.4	482.1	485.7	488.1	489.3	490.5	491.6	491.6	491.6	491.6
45°	471.5	473.8	473.8	475.0	475.0	475.0	476.2	476.2	475.0	473.8	476.2
47.5°	453.6	453.6	450.1	448.9	447.7	445.3	446.5	445.3	444.1	443.0	445.3
50°	422.8	418.0	415.6	413.3	412.1	409.7	410.9	409.7	408.5	406.1	409.7
52.5°	386.0	384.8	380.0	377.6	376.5	377.6	375.3	374.1	372.9	371.7	372.9
55°	350.3	345.6	344.4	342.0	340.8	342.0	340.8	339.6	338.5	337.3	338.5
57.5°	318.3	314.7	313.5	311.1	311.1	311.1	311.1	310.0	308.8	307.6	308.8
60°	287.4	285.0	283.8	283.8	282.6	282.6	282.6	281.5	280.3	280.3	281.5
62.5°	261.3	261.3	257.7	256.5	256.5	257.7	256.5	255.3	254.1	253.0	255.3
65°	233.9	229.2	228.0	225.6	223.3	224.4	223.3	222.1	220.9	219.7	222.1
67.5°	200.7	199.5	194.8	192.4	191.2	192.4	191.2	190.0	188.8	187.6	190.0
70°	168.6	168.6	163.9	162.7	161.5	161.5	160.3	160.3	159.1	157.9	160.3
72.5°	140.1	140.1	138.9	136.6	135.4	134.2	133.0	131.8	131.8	133.0	133.0
75°	116.4	114.0	109.3	110.4	109.3	108.1	108.1	106.9	105.7	108.1	106.9
77.5°	91.4	90.3	86.7	87.9	86.7	85.5	85.5	84.3	83.1	84.3	84.3
80°	68.9	68.9	67.7	66.5	66.5	65.3	64.1	64.1	62.9	64.1	64.1
82.5°	49.9	49.9	48.7	47.5	46.3	46.3	45.1	45.1	45.1	45.1	45.1
85°	32.1	30.9	30.9	28.5	28.5	28.5	27.3	27.3	27.3	27.3	27.3
87.5°	15.4	15.4	14.3	14.3	13.1	11.9	11.9	10.7	10.7	11.9	11.9
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: P1213964

CATALOG NUMBER: 8SNLED-LD5-57SL-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°	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3
2.5°	2681.5	2696.9	2683.9	2689.8	2691.0	2711.2	2710.0	2714.8	2706.4	2696.9	2683.9
5°	2818.1	2811.0	2801.5	2824.0	2812.1	2826.4	2831.1	2840.6	2840.6	2839.5	2828.8
7.5°	2643.5	2628.1	2639.9	2648.3	2651.8	2642.3	2661.3	2682.7	2700.5	2711.2	2712.4
10°	2506.9	2511.7	2510.5	2514.1	2522.4	2521.2	2533.1	2544.9	2549.7	2556.8	2559.2
12.5°	2442.8	2441.6	2444.0	2452.3	2457.1	2455.9	2467.7	2474.9	2477.2	2478.4	2477.2
15°	2391.7	2383.4	2389.4	2390.6	2394.1	2394.1	2408.4	2419.1	2423.8	2426.2	2423.8
17.5°	2295.6	2275.4	2294.4	2294.4	2307.4	2305.1	2327.6	2345.4	2354.9	2362.1	2362.1
20°	2200.5	2191.0	2198.2	2195.8	2205.3	2204.1	2218.4	2230.2	2238.5	2244.5	2251.6
22.5°	2162.5	2164.9	2154.2	2155.4	2155.4	2154.2	2161.4	2167.3	2169.7	2173.2	2170.9
25°	2137.6	2140.0	2136.4	2130.5	2128.1	2130.5	2134.0	2141.2	2142.4	2140.0	2131.7
27.5°	2112.7	2105.5	2111.5	2100.8	2098.4	2103.2	2107.9	2109.1	2110.3	2110.3	2103.2
30°	2074.7	2068.7	2074.7	2069.9	2065.2	2069.9	2073.5	2073.5	2075.9	2077.0	2068.7
32.5°	1450.0	1461.9	1654.3	1770.7	1934.5	2017.7	2033.1	2033.1	2035.5	2035.5	2028.4
35°	494.0	495.2	535.6	580.7	676.9	795.7	951.2	1032.0	1305.1	1631.7	1947.6
37.5°	488.1	486.9	485.7	484.5	483.3	482.1	479.8	478.6	485.7	576.0	781.4
40°	490.5	489.3	486.9	485.7	484.5	482.1	481.0	478.6	476.2	473.8	471.5
42.5°	490.5	489.3	488.1	486.9	485.7	484.5	482.1	479.8	477.4	473.8	470.3
45°	473.8	473.8	475.0	475.0	476.2	476.2	476.2	475.0	475.0	473.8	469.1
47.5°	443.0	443.0	446.5	446.5	448.9	451.3	451.3	453.6	457.2	459.6	460.8
50°	407.3	407.3	410.9	412.1	414.5	418.0	421.6	422.8	426.3	431.1	435.8
52.5°	371.7	371.7	375.3	375.3	377.6	381.2	384.8	386.0	390.7	395.5	401.4
55°	338.5	338.5	340.8	342.0	343.2	345.6	349.1	349.1	353.9	357.5	363.4
57.5°	308.8	311.1	311.1	311.1	312.3	314.7	317.1	317.1	320.6	324.2	329.0
60°	280.3	282.6	282.6	282.6	283.8	285.0	287.4	287.4	289.8	292.1	296.9
62.5°	254.1	256.5	256.5	257.7	257.7	258.9	261.3	260.1	262.5	263.6	267.2
65°	220.9	223.3	224.4	225.6	226.8	229.2	232.8	231.6	235.1	237.5	241.1
67.5°	188.8	191.2	191.2	192.4	193.6	195.9	198.3	198.3	201.9	204.3	209.0
70°	159.1	161.5	161.5	162.7	163.9	166.3	168.6	167.4	171.0	173.4	176.9
72.5°	131.8	134.2	134.2	135.4	135.4	137.8	140.1	142.5	142.5	144.9	147.3
75°	106.9	108.1	109.3	109.3	110.4	111.6	114.0	116.4	117.6	118.8	121.1
77.5°	84.3	85.5	86.7	86.7	87.9	89.1	90.3	95.0	97.4	98.6	98.6
80°	64.1	65.3	65.3	65.3	66.5	67.7	70.1	70.1	74.8	74.8	76.0
82.5°	45.1	46.3	46.3	46.3	47.5	49.9	51.1	52.3	54.6	55.8	55.8
85°	27.3	28.5	28.5	28.5	29.7	30.9	33.3	34.4	35.6	35.6	36.8
87.5°	10.7	11.9	13.1	13.1	14.3	15.4	16.6	17.8	19.0	19.0	20.2
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: P1213964

CATALOG NUMBER: 8SNLED-LD5-57SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3
2.5°	2669.6	2677.9	2669.6	2674.4	2680.3	2669.6	2644.7	2635.2	2631.6	2617.4	2607.9
5°	2818.1	2818.1	2814.5	2824.0	2822.8	2806.2	2780.1	2768.2	2756.3	2740.9	2729.0
7.5°	2712.4	2721.9	2727.8	2764.6	2788.4	2790.8	2807.4	2811.0	2815.7	2811.0	2803.8
10°	2560.4	2556.8	2573.4	2607.9	2628.1	2638.8	2670.8	2686.3	2699.3	2725.4	2752.8
12.5°	2474.9	2479.6	2486.7	2511.7	2530.7	2525.9	2539.0	2549.7	2565.1	2591.3	2630.4
15°	2417.9	2422.6	2429.7	2448.7	2460.6	2454.7	2461.8	2468.9	2479.6	2492.7	2516.4
17.5°	2356.1	2364.4	2372.7	2392.9	2403.6	2402.4	2408.4	2410.7	2414.3	2422.6	2439.2
20°	2259.9	2286.1	2302.7	2330.0	2345.4	2343.1	2353.7	2357.3	2362.1	2370.4	2377.5
22.5°	2172.0	2179.2	2187.5	2217.2	2243.3	2275.4	2282.5	2292.0	2303.9	2312.2	2319.3
25°	2122.2	2117.4	2121.0	2141.2	2155.4	2157.8	2168.5	2199.4	2231.4	2245.7	2262.3
27.5°	2092.5	2087.7	2086.5	2096.0	2098.4	2092.5	2090.1	2099.6	2123.4	2147.1	2197.0
30°	2060.4	2054.5	2049.7	2058.0	2061.6	2053.3	2037.9	2029.5	2043.8	2049.7	2069.9
32.5°	2022.4	2016.5	2014.1	2018.8	2021.2	2014.1	1997.5	1988.0	1985.6	1980.8	1985.6
35°	1979.7	1973.7	1970.2	1971.3	1976.1	1970.2	1955.9	1944.0	1938.1	1925.0	1915.5
37.5°	1020.1	1445.3	1876.3	1921.5	1926.2	1925.0	1910.8	1897.7	1891.8	1876.3	1871.6
40°	466.7	521.3	782.6	1022.5	1474.9	1874.0	1860.9	1847.8	1837.2	1832.4	1814.6
42.5°	465.5	466.7	467.9	462.0	572.4	975.0	1439.3	1796.8	1789.7	1777.8	1764.7
45°	465.5	459.6	464.3	457.2	459.6	458.4	571.2	921.5	1640.0	1713.6	1707.7
47.5°	460.8	457.2	462.0	456.0	448.9	452.5	447.7	453.6	707.8	1200.6	1644.8
50°	439.4	441.8	450.1	448.9	443.0	447.7	439.4	446.5	440.6	483.3	931.0
52.5°	407.3	412.1	420.4	427.5	429.9	435.8	433.5	435.8	431.1	432.3	433.5
55°	369.3	375.3	382.4	393.1	397.8	407.3	414.5	418.0	424.0	422.8	413.3
57.5°	333.7	339.6	345.6	356.3	367.0	371.7	384.8	391.9	407.3	403.8	401.4
60°	300.5	305.2	311.1	313.5	326.6	334.9	346.8	353.9	374.1	378.8	386.0
62.5°	270.8	273.1	277.9	281.5	289.8	298.1	304.0	315.9	326.6	342.0	352.7
65°	243.4	245.8	249.4	251.8	253.0	264.8	268.4	281.5	285.0	301.6	311.1
67.5°	212.6	217.3	222.1	224.4	226.8	233.9	236.3	242.3	250.6	257.7	269.6
70°	180.5	184.1	188.8	192.4	197.1	201.9	209.0	212.6	218.5	223.3	232.8
72.5°	150.8	154.4	156.8	160.3	163.9	167.4	173.4	181.7	186.4	194.8	197.1
75°	122.3	125.9	128.3	130.6	134.2	136.6	138.9	147.3	152.0	159.1	166.3
77.5°	100.9	100.9	103.3	110.4	109.3	109.3	111.6	116.4	119.9	124.7	131.8
80°	78.4	79.6	80.8	86.7	87.9	89.1	87.9	91.4	95.0	96.2	100.9
82.5°	58.2	59.4	59.4	62.9	66.5	66.5	66.5	67.7	71.3	72.4	74.8
85°	39.2	40.4	41.6	42.8	45.1	46.3	47.5	47.5	49.9	51.1	52.3
87.5°	21.4	23.8	24.9	26.1	27.3	28.5	29.7	30.9	32.1	33.3	34.4
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: P1213964

CATALOG NUMBER: 8SNLED-LD5-57SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3	2591.3
2.5°	2604.3	2598.4	2594.8	2585.3	2582.9	2567.5	2569.9	2567.5	2567.5	2571.1	2582.9
5°	2715.9	2687.4	2680.3	2660.1	2643.5	2615.0	2597.2	2587.7	2573.4	2567.5	2575.8
7.5°	2792.0	2770.6	2752.8	2734.9	2711.2	2677.9	2653.0	2624.5	2600.8	2578.2	2572.3
10°	2778.9	2802.6	2802.6	2792.0	2769.4	2736.1	2706.4	2670.8	2629.3	2593.6	2572.3
12.5°	2668.4	2710.0	2743.3	2768.2	2790.8	2768.2	2738.5	2710.0	2663.7	2611.4	2572.3
15°	2547.3	2590.1	2631.6	2683.9	2738.5	2761.1	2759.9	2726.6	2685.1	2630.4	2575.8
17.5°	2461.8	2491.5	2514.1	2571.1	2637.6	2695.8	2734.9	2737.3	2696.9	2648.3	2577.0
20°	2397.7	2419.1	2438.1	2470.1	2528.3	2599.6	2672.0	2712.4	2705.3	2651.8	2580.6
22.5°	2339.5	2354.9	2370.4	2394.1	2440.4	2486.7	2571.1	2654.2	2689.8	2645.9	2577.0
25°	2281.3	2297.9	2309.8	2326.4	2363.2	2401.2	2460.6	2563.9	2643.5	2641.1	2569.9
27.5°	2212.4	2235.0	2249.2	2271.8	2296.7	2325.2	2365.6	2463.0	2577.0	2617.4	2550.9
30°	2129.3	2162.5	2183.9	2208.9	2230.2	2255.2	2287.2	2346.6	2487.9	2571.1	2530.7
32.5°	2009.3	2068.7	2116.2	2140.0	2163.7	2185.1	2213.6	2263.5	2378.7	2508.1	2508.1
35°	1923.8	1951.2	1993.9	2062.8	2092.5	2113.9	2140.0	2179.2	2252.8	2433.3	2471.3
37.5°	1857.3	1868.0	1889.4	1957.1	2012.9	2047.4	2073.5	2098.4	2170.9	2331.2	2423.8
40°	1807.5	1803.9	1801.5	1833.6	1913.2	1967.8	1997.5	2022.4	2078.2	2208.9	2360.9
42.5°	1749.3	1745.7	1733.8	1742.1	1781.3	1872.8	1917.9	1945.2	1991.5	2080.6	2292.0
45°	1688.7	1682.8	1678.0	1669.7	1684.0	1735.0	1827.7	1868.0	1894.2	1973.7	2205.3
47.5°	1627.0	1618.6	1612.7	1605.6	1597.3	1621.0	1708.9	1781.3	1826.5	1876.3	2100.8
50°	1539.1	1549.8	1542.6	1534.3	1527.2	1522.5	1559.3	1678.0	1733.8	1774.2	1973.7
52.5°	725.6	1410.8	1470.2	1461.9	1452.4	1444.1	1452.4	1542.6	1643.6	1675.6	1820.5
55°	413.3	628.2	1307.5	1382.3	1374.0	1362.1	1355.0	1385.9	1536.7	1579.5	1680.4
57.5°	397.8	399.0	577.2	1245.7	1292.1	1281.4	1273.1	1280.2	1408.4	1480.9	1558.1
60°	384.8	384.8	384.8	551.0	1191.1	1194.7	1184.0	1172.1	1227.9	1370.4	1434.6
62.5°	356.3	363.4	367.0	367.0	543.9	1103.2	1092.6	1089.0	1091.4	1237.4	1311.1
65°	319.5	336.1	343.2	348.0	348.0	571.2	998.7	992.8	984.5	1040.3	1186.4
67.5°	279.1	295.7	311.1	320.6	321.8	332.5	596.2	894.2	882.4	883.5	1053.4
70°	237.5	251.8	268.4	282.6	295.7	301.6	311.1	742.2	781.4	764.8	902.5
72.5°	205.4	211.4	223.3	237.5	253.0	267.2	275.5	295.7	678.1	660.3	686.4
75°	171.0	175.8	184.1	193.6	205.4	222.1	236.3	250.6	359.8	553.4	549.8
77.5°	133.0	141.3	150.8	156.8	162.7	174.6	193.6	207.8	222.1	374.1	440.6
80°	102.1	108.1	112.8	118.8	125.9	134.2	141.3	157.9	174.6	187.6	337.3
82.5°	76.0	79.6	83.1	85.5	87.9	92.6	105.7	111.6	122.3	134.2	159.1
85°	53.4	55.8	58.2	59.4	60.6	61.8	66.5	67.7	78.4	80.8	96.2
87.5°	34.4	35.6	38.0	39.2	39.2	40.4	41.6	41.6	41.6	39.2	47.5
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: P1213964

CATALOG NUMBER: 8SNLED-LD5-57SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	2591.3	2591.3
2.5°	2592.4	2611.4
5°	2588.9	2613.8
7.5°	2579.4	2603.1
10°	2565.1	2593.6
12.5°	2549.7	2577.0
15°	2536.6	2556.8
17.5°	2522.4	2534.3
20°	2503.4	2512.9
22.5°	2484.4	2479.6
25°	2463.0	2452.3
27.5°	2435.7	2415.5
30°	2410.7	2375.1
32.5°	2387.0	2328.8
35°	2354.9	2281.3
37.5°	2321.7	2232.6
40°	2282.5	2176.8
42.5°	2240.9	2121.0
45°	2188.7	2067.5
47.5°	2142.4	2003.4
50°	2078.2	1934.5
52.5°	1999.8	1870.4
55°	1907.2	1792.0
57.5°	1807.5	1710.1
60°	1700.6	1616.3
62.5°	1571.1	1518.9
65°	1419.1	1407.3
67.5°	1220.8	1283.8
70°	1001.1	1142.4
72.5°	837.2	992.8
75°	686.4	825.4
77.5°	543.9	647.2
80°	339.6	473.8
82.5°	228.0	311.1
85°	137.8	148.4
87.5°	53.4	54.6
90°	0.0	0.0

(END OF REPORT)