

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: P1214154

Luminaire Tested: 4SNLED-LD5-50SL-RW-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214154
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-LD5-50SL-RW-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

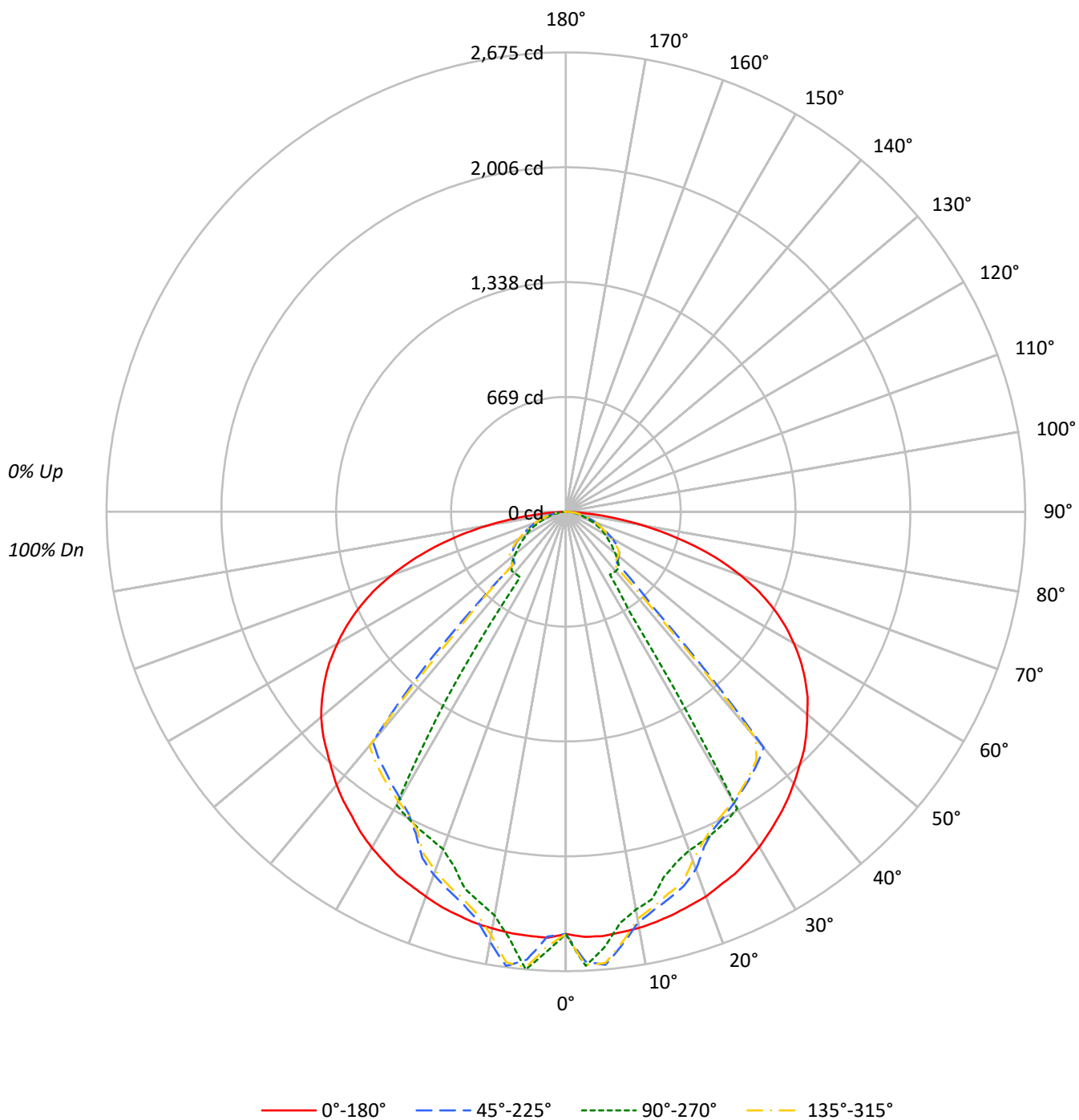
Lumens per Lamp: N/A
Luminaire Lumens: 4923.0 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19866	19866	19866	19866
5°	20061	20017	20052	21007
10°	20081	18097	20109	18374
15°	20125	16744	20172	17274
20°	20272	15881	20272	15821
25°	20447	15577	20477	15432
30°	20654	15303	20706	15121
35°	20895	3486	20938	3635
40°	21229	3624	21357	3742
45°	21738	3605	21813	3735
50°	22246	3259	22546	3347
55°	22930	2894	23113	2935
60°	23510	2571	23562	2604
65°	23925	2244	23865	2208
70°	23585	1809	23511	1742
75°	21894	1391	22053	1333
80°	17769	989	18485	904
85°	9619	592	10159	454

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 24090 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.9	4.9
10°-20°	665.0	13.5
20°-30°	985.1	20.0
30°-40°	992.5	20.2
40°-50°	775.3	15.7
50°-60°	598.9	12.2
60°-70°	402.1	8.2
70°-80°	205.1	4.2
80°-90°	57.1	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°	1892.0	38.4
0°-40°	2884.5	58.6
0°-60°	4258.7	86.5
0°-90°	4923.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4923.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2458	2458	2458	2458	2458	
5°	2480	2549	2479	2675	2480	236
15°	2426	2203	2431	2272	2426	686
25°	2327	2053	2330	2034	2327	1073
35°	2164	446	2169	465	2164	1356
45°	1962	434	1968	450	1962	1513
55°	1700	316	1714	320	1700	1518
65°	1335	212	1332	208	1335	1313
75°	783	107	789	102	783	819
85°	141	34	149	26	141	194
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°	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4
2.5°	2477.6	2486.6	2493.3	2497.9	2500.1	2500.1	2501.2	2502.4	2517.0	2523.8	2528.3
5°	2479.8	2488.8	2502.4	2520.4	2536.2	2549.7	2560.9	2576.7	2592.5	2609.4	2615.0
7.5°	2469.7	2481.0	2508.0	2540.7	2571.1	2592.5	2607.1	2617.3	2625.2	2626.3	2631.9
10°	2460.7	2481.0	2518.1	2560.9	2599.3	2625.2	2625.2	2619.5	2627.4	2597.0	2566.6
12.5°	2444.9	2467.4	2518.1	2574.5	2610.5	2620.7	2616.2	2593.6	2547.4	2510.2	2493.3
15°	2425.7	2456.2	2519.3	2582.4	2612.8	2616.2	2573.3	2515.9	2481.0	2458.4	2430.3
17.5°	2404.3	2444.9	2520.4	2583.5	2594.7	2579.0	2497.9	2461.8	2425.7	2372.8	2334.5
20°	2384.1	2423.5	2511.4	2567.7	2574.5	2503.5	2440.4	2402.1	2341.2	2295.1	2278.2
22.5°	2352.5	2398.7	2503.5	2546.3	2520.4	2438.1	2377.3	2316.5	2261.3	2247.7	2227.4
25°	2326.6	2375.0	2485.5	2520.4	2451.7	2378.4	2307.4	2236.5	2210.5	2191.4	2173.4
27.5°	2291.7	2351.4	2461.8	2473.1	2378.4	2314.2	2210.5	2179.0	2155.3	2133.9	2126.0
30°	2253.4	2326.6	2429.1	2407.7	2317.6	2222.9	2146.3	2117.0	2100.1	2077.6	2068.6
32.5°	2209.4	2289.4	2393.1	2332.2	2252.2	2133.9	2084.4	2061.8	2039.3	2022.4	1966.1
35°	2164.4	2256.7	2350.3	2260.1	2173.4	2066.3	2022.4	2002.1	1980.7	1918.7	1860.2
37.5°	2118.2	2220.7	2298.4	2182.4	2068.6	1996.5	1959.3	1936.8	1888.3	1809.5	1780.2
40°	2065.2	2176.7	2232.0	2102.4	1977.3	1925.5	1890.6	1868.0	1758.8	1723.8	1714.8
42.5°	2012.3	2133.9	2150.8	2024.6	1901.8	1850.0	1820.7	1746.4	1672.0	1654.0	1657.3
45°	1961.6	2087.7	2061.8	1914.2	1823.0	1780.2	1730.6	1628.1	1588.6	1597.6	1599.9
47.5°	1900.7	2032.5	1968.3	1803.8	1741.8	1699.0	1588.6	1526.7	1521.0	1533.4	1540.2
50°	1835.4	1970.6	1869.2	1703.5	1654.0	1603.3	1478.2	1446.7	1453.4	1465.8	1473.7
52.5°	1774.5	1900.7	1766.6	1610.0	1567.2	1451.2	1366.7	1372.3	1383.6	1398.2	1402.7
55°	1700.2	1816.2	1657.3	1515.4	1474.8	1322.7	1284.4	1297.9	1309.2	1321.6	1330.6
57.5°	1622.4	1719.3	1527.8	1409.5	1344.1	1208.9	1212.3	1221.3	1229.2	1243.9	513.8
60°	1533.4	1608.9	1385.8	1311.5	1181.9	1118.8	1122.2	1137.9	1145.8	640.0	353.8
62.5°	1441.0	1480.5	1257.4	1199.9	1033.2	1028.7	1044.4	1051.2	715.4	338.0	331.2
65°	1335.1	1327.2	1131.2	1039.9	931.8	936.3	953.2	919.4	316.6	316.6	314.3
67.5°	1217.9	1170.6	1008.4	860.8	833.7	843.9	861.9	300.8	292.9	295.2	287.3
70°	1083.9	1017.4	881.1	729.0	738.0	748.1	290.7	272.7	269.3	263.6	247.9
72.5°	941.9	850.6	721.1	633.2	638.8	401.1	254.6	245.6	234.3	223.1	206.2
75°	783.0	664.7	529.5	529.5	537.4	228.7	222.0	207.3	194.9	180.3	170.1
77.5°	614.0	511.5	411.2	427.0	208.4	191.5	179.1	163.4	153.2	144.2	138.6
80°	449.5	357.2	309.8	277.2	162.2	145.3	132.9	123.9	119.4	113.8	107.0
82.5°	295.2	215.2	215.2	130.7	113.8	100.3	96.9	90.1	85.6	82.2	78.9
85°	140.8	125.1	94.6	80.0	71.0	64.2	62.0	58.6	58.6	57.5	56.3
87.5°	51.8	56.3	41.7	40.6	38.3	37.2	38.3	38.3	39.4	38.3	37.2
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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4
2.5°	2539.5	2548.6	2555.3	2566.6	2581.2	2593.6	2604.9	2620.7	2645.4	2652.2	2657.8
5°	2615.0	2618.4	2626.3	2635.3	2637.6	2643.2	2642.1	2648.8	2652.2	2660.1	2643.2
7.5°	2619.5	2601.5	2580.1	2560.9	2547.4	2535.0	2527.1	2539.5	2546.3	2551.9	2535.0
10°	2524.9	2503.5	2491.1	2479.8	2466.3	2447.2	2421.2	2426.9	2424.6	2424.6	2419.0
12.5°	2465.2	2434.8	2403.2	2375.0	2362.7	2361.5	2362.7	2375.0	2375.0	2373.9	2367.2
15°	2371.7	2342.4	2326.6	2319.8	2319.8	2316.5	2316.5	2330.0	2326.6	2326.6	2323.2
17.5°	2309.7	2289.4	2278.2	2270.3	2266.9	2272.5	2279.3	2284.9	2286.0	2281.5	2263.5
20°	2259.0	2239.8	2226.3	2228.6	2227.4	2230.8	2234.2	2215.1	2191.4	2159.8	2145.2
22.5°	2206.0	2191.4	2181.3	2181.3	2167.7	2146.3	2114.8	2108.0	2104.6	2090.0	2077.6
25°	2155.3	2138.4	2123.8	2078.7	2050.6	2053.9	2048.3	2037.0	2035.9	2034.8	2039.3
27.5°	2104.6	2060.7	2004.4	1997.6	1986.3	1985.2	1992.0	1997.6	1997.6	2002.1	2007.7
30°	1999.9	1949.2	1939.0	1926.6	1931.1	1946.9	1950.3	1958.2	1960.4	1968.3	1972.8
32.5°	1904.1	1881.6	1872.5	1878.2	1892.8	1906.3	1914.2	1917.6	1923.2	1930.0	1935.6
35°	1826.4	1819.6	1827.5	1839.9	1854.5	1865.8	1872.5	1879.3	1884.9	1890.6	1895.1
37.5°	1768.9	1773.4	1784.7	1800.4	1815.1	1824.1	1829.7	1837.6	1845.5	1852.3	1825.2
40°	1714.8	1726.1	1738.5	1755.4	1767.8	1776.8	1782.4	1792.6	1724.9	780.8	428.1
42.5°	1667.5	1679.9	1688.9	1702.4	1715.9	1722.7	1673.1	747.0	422.5	420.3	425.9
45°	1610.0	1620.2	1634.8	1645.0	1657.3	1088.4	415.7	420.3	413.5	418.0	420.3
47.5°	1551.4	1567.2	1575.1	1503.0	447.3	413.5	409.0	413.5	409.0	414.6	411.2
50°	1485.0	1504.1	1070.3	404.5	401.1	398.8	403.4	401.1	404.5	409.0	400.0
52.5°	1417.4	877.7	392.1	389.8	392.1	389.8	397.7	392.1	393.2	388.7	377.4
55°	480.0	379.7	376.3	375.2	381.9	381.9	381.9	372.9	367.3	356.0	348.1
57.5°	367.3	367.3	366.2	367.3	365.0	362.8	352.7	344.8	336.9	321.1	316.6
60°	348.1	348.1	348.1	348.1	338.0	333.5	317.7	311.0	297.4	289.6	285.1
62.5°	332.4	330.1	320.0	316.6	305.3	292.9	283.9	277.2	263.6	259.1	255.8
65°	309.8	302.0	289.6	276.0	270.4	256.9	252.4	242.2	235.5	232.1	229.8
67.5°	272.7	261.4	251.3	242.2	232.1	227.6	222.0	214.1	209.6	207.3	205.1
70°	233.2	225.3	215.2	209.6	202.8	199.4	191.5	189.3	185.9	182.5	179.1
72.5°	194.9	190.4	185.9	178.0	175.8	173.5	165.6	161.1	156.6	152.1	149.8
75°	163.4	160.0	157.7	151.0	147.6	140.8	135.2	131.8	128.4	125.1	122.8
77.5°	134.1	131.8	125.1	120.6	118.3	112.7	110.4	111.5	109.3	104.8	102.5
80°	104.8	102.5	96.9	96.9	94.6	92.4	90.1	87.9	85.6	82.2	80.0
82.5°	80.0	77.7	75.5	73.2	71.0	69.9	68.7	66.5	64.2	62.0	60.8
85°	56.3	55.2	54.1	53.0	51.8	50.7	49.6	47.3	45.1	43.9	42.8
87.5°	38.3	37.2	36.1	34.9	33.8	32.7	31.5	30.4	28.2	27.0	25.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4
2.5°	2657.8	2663.5	2657.8	2645.4	2637.6	2634.2	2640.9	2640.9	2645.4	2651.1	2652.2
5°	2616.2	2602.6	2586.9	2571.1	2563.2	2558.7	2546.3	2548.6	2551.9	2554.2	2556.4
7.5°	2512.5	2494.5	2473.1	2452.8	2444.9	2438.1	2423.5	2423.5	2423.5	2424.6	2431.4
10°	2406.6	2398.7	2389.7	2376.2	2366.0	2362.7	2350.3	2353.6	2351.4	2354.8	2362.7
12.5°	2357.0	2348.0	2340.1	2326.6	2315.3	2310.8	2305.2	2308.6	2307.4	2313.1	2319.8
15°	2312.0	2307.4	2298.4	2288.3	2278.2	2269.1	2248.9	2242.1	2237.6	2232.0	2239.8
17.5°	2237.6	2206.0	2184.6	2168.9	2157.6	2149.7	2144.1	2144.1	2147.5	2150.8	2157.6
20°	2136.2	2127.2	2117.0	2100.1	2088.9	2084.4	2081.0	2081.0	2086.6	2091.1	2103.5
22.5°	2066.3	2065.2	2061.8	2053.9	2048.3	2048.3	2049.4	2051.7	2059.6	2066.3	2078.7
25°	2033.7	2038.2	2035.9	2031.4	2028.0	2029.2	2026.9	2029.2	2037.0	2043.8	2053.9
27.5°	2007.7	2014.5	2012.3	2005.5	1999.9	2002.1	2005.5	2003.2	2010.0	2017.9	2025.8
30°	1972.8	1973.9	1978.5	1970.6	1968.3	1971.7	1972.8	1975.1	1981.8	1987.5	1994.2
32.5°	1933.4	1942.4	1941.3	1933.4	1933.4	1936.8	1937.9	1862.4	1721.6	1482.7	1417.4
35°	1895.1	1905.2	1888.3	1592.0	1101.9	588.1	454.1	438.3	441.7	443.9	446.2
37.5°	1401.6	664.7	423.6	427.0	430.4	433.8	437.2	440.5	443.9	447.3	448.4
40°	421.4	420.3	423.6	428.1	431.5	433.8	438.3	441.7	445.0	448.4	449.5
42.5°	416.9	419.1	422.5	427.0	431.5	436.0	439.4	443.9	446.2	448.4	449.5
45°	414.6	419.1	423.6	427.0	430.4	432.6	434.9	436.0	434.9	434.9	437.2
47.5°	411.2	415.7	416.9	415.7	416.9	415.7	415.7	415.7	412.4	411.2	411.2
50°	398.8	398.8	396.6	392.1	391.0	389.8	387.6	386.5	381.9	380.8	380.8
52.5°	372.9	371.8	368.4	362.8	360.5	358.3	357.2	356.0	351.5	349.3	350.4
55°	342.5	340.3	336.9	330.1	329.0	326.7	325.6	324.5	320.0	322.2	318.9
57.5°	314.3	309.8	305.3	304.2	299.7	298.6	297.4	296.3	292.9	294.1	291.8
60°	280.5	279.4	277.2	272.7	272.7	271.5	271.5	269.3	267.0	265.9	265.9
62.5°	255.8	252.4	250.1	250.1	246.7	246.7	246.7	244.5	242.2	243.4	242.2
65°	228.7	227.6	226.5	224.2	224.2	223.1	223.1	220.8	217.4	218.6	216.3
67.5°	206.2	203.9	201.7	200.5	196.0	193.8	192.7	191.5	187.0	188.2	185.9
70°	178.0	174.6	172.4	170.1	166.7	164.5	164.5	162.2	158.9	160.0	157.7
72.5°	148.7	146.5	144.2	143.1	139.7	138.6	137.5	136.3	132.9	134.1	132.9
75°	123.9	123.9	122.8	121.7	118.3	114.9	112.7	111.5	109.3	110.4	108.2
77.5°	102.5	100.3	98.0	98.0	94.6	92.4	90.1	90.1	90.1	89.0	87.9
80°	80.0	77.7	77.7	76.6	74.4	72.1	71.0	71.0	69.9	69.9	68.7
82.5°	60.8	58.6	57.5	57.5	55.2	54.1	53.0	51.8	51.8	51.8	50.7
85°	42.8	40.6	39.4	39.4	37.2	36.1	36.1	34.9	34.9	33.8	33.8
87.5°	25.9	24.8	23.7	23.7	21.4	20.3	20.3	20.3	19.2	19.2	18.0
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: P1214154

CATALOG NUMBER: 4SNLED-LD5-50SL-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°	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4
2.5°	2652.2	2652.2	2644.3	2646.6	2643.2	2647.7	2642.1	2642.1	2648.8	2648.8	2653.3
5°	2557.6	2551.9	2550.8	2548.6	2537.3	2541.8	2536.2	2530.5	2538.4	2538.4	2548.6
7.5°	2428.0	2417.9	2422.4	2415.6	2408.8	2398.7	2402.1	2397.6	2403.2	2411.1	2421.2
10°	2361.5	2352.5	2358.1	2351.4	2354.8	2340.1	2341.2	2342.4	2348.0	2350.3	2359.3
12.5°	2318.7	2316.5	2314.2	2312.0	2314.2	2306.3	2301.8	2302.9	2305.2	2306.3	2313.1
15°	2228.6	2213.9	2218.4	2202.7	2203.8	2204.9	2195.9	2204.9	2203.8	2218.4	2232.0
17.5°	2155.3	2155.3	2147.5	2140.7	2136.2	2135.1	2128.3	2132.8	2128.3	2137.3	2140.7
20°	2104.6	2103.5	2102.4	2099.0	2087.7	2088.9	2092.2	2082.1	2081.0	2079.9	2086.6
22.5°	2081.0	2082.1	2077.6	2077.6	2067.5	2069.7	2070.8	2059.6	2060.7	2057.3	2060.7
25°	2056.2	2058.4	2052.8	2052.8	2050.6	2049.4	2043.8	2046.1	2039.3	2033.7	2039.3
27.5°	2026.9	2031.4	2026.9	2029.2	2024.6	2022.4	2019.0	2016.8	2010.0	2008.9	2012.3
30°	1999.9	2002.1	2001.0	1995.4	1994.2	1987.5	1990.8	1984.1	1977.3	1978.5	1980.7
32.5°	1025.3	979.1	754.9	681.6	674.9	699.7	829.2	1009.5	1308.1	1597.6	1806.1
35°	447.3	447.3	447.3	446.2	446.2	445.0	443.9	442.8	441.7	440.5	439.4
37.5°	449.5	449.5	449.5	449.5	448.4	447.3	447.3	445.0	443.9	442.8	441.7
40°	450.7	451.8	451.8	451.8	450.7	450.7	449.5	447.3	446.2	443.9	441.7
42.5°	449.5	450.7	450.7	449.5	449.5	448.4	448.4	447.3	446.2	445.0	443.9
45°	434.9	436.0	433.8	433.8	432.6	432.6	432.6	432.6	432.6	433.8	433.8
47.5°	409.0	409.0	407.9	406.7	406.7	405.6	406.7	405.6	407.9	409.0	411.2
50°	378.6	378.6	376.3	375.2	375.2	375.2	375.2	376.3	377.4	379.7	381.9
52.5°	347.0	347.0	345.9	344.8	343.6	343.6	347.0	345.9	347.0	348.1	351.5
55°	316.6	317.7	315.5	315.5	314.3	314.3	314.3	315.5	316.6	317.7	321.1
57.5°	290.7	290.7	288.4	288.4	288.4	287.3	290.7	288.4	289.6	290.7	292.9
60°	264.8	263.6	263.6	262.5	262.5	262.5	264.8	263.6	263.6	264.8	267.0
62.5°	241.1	241.1	240.0	240.0	238.9	238.9	241.1	240.0	240.0	241.1	242.2
65°	214.1	214.1	212.9	211.8	215.2	211.8	215.2	212.9	215.2	216.3	218.6
67.5°	183.6	183.6	183.6	182.5	182.5	184.8	185.9	183.6	184.8	187.0	188.2
70°	156.6	156.6	155.5	155.5	155.5	157.7	158.9	156.6	157.7	158.9	161.1
72.5°	132.9	130.7	130.7	129.6	131.8	131.8	132.9	131.8	132.9	132.9	135.2
75°	109.3	107.0	107.0	107.0	109.3	108.2	109.3	108.2	109.3	109.3	110.4
77.5°	87.9	86.8	85.6	85.6	87.9	87.9	87.9	86.8	87.9	89.0	90.1
80°	68.7	67.6	66.5	66.5	68.7	68.7	68.7	69.9	68.7	69.9	71.0
82.5°	50.7	49.6	48.4	50.7	50.7	50.7	50.7	51.8	50.7	51.8	53.0
85°	33.8	32.7	31.5	33.8	33.8	33.8	33.8	34.9	33.8	34.9	36.1
87.5°	18.0	16.9	16.9	18.0	18.0	18.0	19.2	19.2	19.2	20.3	20.3
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: P1214154

CATALOG NUMBER: 4SNLED-LD5-50SL-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°	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4
2.5°	2660.1	2663.5	2662.3	2655.6	2648.8	2640.9	2635.3	2636.4	2647.7	2651.1	2640.9
5°	2548.6	2570.0	2570.0	2584.6	2576.7	2570.0	2574.5	2599.3	2611.6	2630.8	2637.6
7.5°	2433.6	2443.8	2442.6	2457.3	2455.0	2455.0	2458.4	2491.1	2506.9	2522.6	2527.1
10°	2369.4	2379.6	2378.4	2379.6	2376.2	2368.3	2368.3	2382.9	2396.5	2404.3	2406.6
12.5°	2323.2	2328.9	2327.7	2327.7	2325.5	2318.7	2317.6	2330.0	2344.6	2354.8	2355.9
15°	2254.5	2270.3	2273.6	2288.3	2284.9	2275.9	2278.2	2288.3	2297.3	2306.3	2302.9
17.5°	2152.0	2159.8	2161.0	2166.6	2164.4	2164.4	2177.9	2215.1	2239.8	2261.3	2263.5
20°	2093.4	2099.0	2096.8	2109.1	2103.5	2102.4	2105.8	2121.5	2132.8	2142.9	2161.0
22.5°	2065.2	2069.7	2066.3	2067.5	2057.3	2048.3	2046.1	2058.4	2070.8	2084.4	2084.4
25°	2041.5	2044.9	2043.8	2041.5	2033.7	2021.3	2019.0	2021.3	2025.8	2026.9	2019.0
27.5°	2013.4	2015.6	2015.6	2016.8	2006.6	1995.4	1993.1	1990.8	1995.4	1994.2	1981.8
30°	1984.1	1980.7	1981.8	1983.0	1973.9	1963.8	1959.3	1958.2	1962.7	1961.6	1949.2
32.5°	1914.2	1940.1	1942.4	1944.7	1936.8	1927.8	1923.2	1919.9	1922.1	1921.0	1909.7
35°	438.3	446.2	546.4	1237.1	1679.9	1860.2	1879.3	1874.8	1875.9	1875.9	1866.9
37.5°	439.4	438.3	437.2	433.8	430.4	428.1	740.2	1578.5	1828.6	1829.7	1821.8
40°	439.4	438.3	437.2	434.9	430.4	427.0	421.4	416.9	427.0	939.7	1719.3
42.5°	441.7	439.4	437.2	434.9	430.4	425.9	421.4	415.7	419.1	416.9	411.2
45°	434.9	433.8	433.8	432.6	430.4	425.9	420.3	413.5	410.1	413.5	407.9
47.5°	413.5	414.6	418.0	419.1	419.1	420.3	416.9	412.4	406.7	410.1	403.4
50°	384.2	386.5	387.6	393.2	395.5	400.0	401.1	401.1	400.0	404.5	400.0
52.5°	352.7	354.9	360.5	362.8	365.0	371.8	374.1	377.4	379.7	386.5	391.0
55°	322.2	323.4	325.6	330.1	333.5	339.1	342.5	345.9	351.5	354.9	368.4
57.5°	294.1	295.2	299.7	300.8	303.1	307.6	311.0	315.5	320.0	322.2	338.0
60°	267.0	268.2	271.5	272.7	273.8	278.3	281.7	285.1	288.4	290.7	302.0
62.5°	243.4	243.4	246.7	246.7	247.9	251.3	253.5	255.8	259.1	260.3	265.9
65°	219.7	220.8	223.1	223.1	224.2	226.5	227.6	228.7	232.1	232.1	236.6
67.5°	190.4	191.5	194.9	197.2	198.3	202.8	203.9	205.1	207.3	208.4	210.7
70°	162.2	163.4	166.7	167.9	169.0	172.4	174.6	178.0	181.4	184.8	187.0
72.5°	136.3	137.5	140.8	140.8	144.2	145.3	147.6	148.7	152.1	154.4	157.7
75°	111.5	112.7	116.0	116.0	119.4	120.6	121.7	122.8	125.1	127.3	129.6
77.5°	91.3	91.3	95.8	98.0	100.3	100.3	101.4	101.4	101.4	102.5	104.8
80°	72.1	72.1	75.5	77.7	80.0	80.0	81.1	82.2	83.4	83.4	84.5
82.5°	54.1	54.1	57.5	58.6	60.8	60.8	60.8	62.0	63.1	62.0	64.2
85°	37.2	37.2	39.4	40.6	42.8	42.8	42.8	43.9	45.1	43.9	45.1
87.5°	21.4	22.5	23.7	24.8	25.9	27.0	27.0	27.0	28.2	28.2	29.3
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: P1214154

CATALOG NUMBER: 4SNLED-LD5-50SL-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°	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4
2.5°	2629.7	2616.2	2615.0	2599.3	2594.7	2595.9	2583.5	2579.0	2558.7	2554.2	2532.8
5°	2639.8	2646.6	2643.2	2642.1	2645.4	2643.2	2634.2	2629.7	2626.3	2617.3	2599.3
7.5°	2528.3	2532.8	2536.2	2550.8	2563.2	2584.6	2607.1	2621.8	2633.1	2635.3	2620.7
10°	2414.5	2435.9	2450.5	2473.1	2491.1	2503.5	2517.0	2529.4	2562.1	2594.7	2613.9
12.5°	2355.9	2361.5	2360.4	2372.8	2385.2	2417.9	2449.4	2467.4	2492.2	2506.9	2541.8
15°	2306.3	2307.4	2310.8	2319.8	2326.6	2337.9	2352.5	2379.6	2429.1	2451.7	2470.8
17.5°	2261.3	2261.3	2263.5	2271.4	2280.4	2290.5	2299.6	2310.8	2335.6	2372.8	2420.1
20°	2189.1	2220.7	2224.1	2222.9	2227.4	2246.6	2248.9	2269.1	2281.5	2296.2	2342.4
22.5°	2082.1	2101.3	2128.3	2170.0	2185.8	2194.8	2201.5	2210.5	2229.7	2246.6	2265.8
25°	2023.5	2035.9	2043.8	2056.2	2088.9	2141.8	2152.0	2162.1	2174.5	2186.9	2210.5
27.5°	1971.7	1970.6	1976.2	1987.5	1996.5	2024.6	2074.2	2113.7	2115.9	2133.9	2154.2
30°	1934.5	1927.8	1919.9	1917.6	1930.0	1944.7	1959.3	2021.3	2064.1	2073.1	2094.5
32.5°	1899.6	1888.3	1877.1	1868.0	1860.2	1872.5	1881.6	1908.6	1963.8	2015.6	2026.9
35°	1856.8	1845.5	1832.0	1821.8	1809.5	1808.3	1807.2	1833.1	1851.1	1913.1	1967.2
37.5°	1812.8	1800.4	1789.2	1777.9	1765.5	1756.5	1750.9	1757.6	1774.5	1801.6	1891.7
40°	1766.6	1752.0	1740.7	1731.7	1714.8	1708.0	1696.8	1692.3	1693.4	1717.1	1764.4
42.5°	1055.7	1683.3	1688.9	1678.8	1664.1	1655.1	1642.7	1637.1	1625.8	1637.1	1664.1
45°	406.7	411.2	1231.5	1626.9	1608.9	1597.6	1586.4	1580.7	1568.3	1559.3	1584.1
47.5°	398.8	403.4	394.3	558.8	1535.7	1539.0	1525.5	1519.9	1507.5	1500.7	1494.0
50°	393.2	396.6	389.8	392.1	384.2	1407.2	1463.6	1456.8	1443.3	1435.4	1421.9
52.5°	387.6	387.6	383.1	377.4	375.2	376.3	1184.1	1392.6	1376.8	1368.9	1350.9
55°	369.6	371.8	376.3	367.3	365.0	363.9	360.5	1127.8	1303.6	1294.6	1278.8
57.5°	342.5	347.0	359.4	357.2	357.2	348.1	345.9	345.9	1046.7	1219.1	1203.3
60°	311.0	315.5	329.0	333.5	336.9	334.6	332.4	331.2	326.7	1103.0	1123.3
62.5°	278.3	282.8	287.3	302.0	306.5	312.1	318.9	315.5	311.0	311.0	1038.8
65°	243.4	250.1	252.4	265.9	271.5	281.7	287.3	295.2	292.9	291.8	297.4
67.5°	212.9	220.8	222.0	227.6	237.7	242.2	249.0	263.6	270.4	272.7	274.9
70°	187.0	191.5	194.9	197.2	203.9	205.1	217.4	227.6	237.7	249.0	252.4
72.5°	161.1	164.5	171.3	169.0	171.3	175.8	182.5	189.3	199.4	215.2	225.3
75°	131.8	134.1	138.6	140.8	145.3	148.7	153.2	158.9	167.9	175.8	189.3
77.5°	105.9	107.0	110.4	111.5	116.0	119.4	127.3	130.7	136.3	142.0	149.8
80°	85.6	85.6	86.8	86.8	90.1	93.5	99.1	102.5	109.3	113.8	113.8
82.5°	65.3	65.3	68.7	68.7	71.0	71.0	74.4	74.4	77.7	80.0	82.2
85°	46.2	47.3	49.6	48.4	50.7	49.6	51.8	54.1	55.2	54.1	53.0
87.5°	30.4	30.4	32.7	31.5	32.7	32.7	34.9	34.9	36.1	36.1	34.9
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: P1214154

CATALOG NUMBER: 4SNLED-LD5-50SL-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°	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4
2.5°	2524.9	2508.0	2497.9	2485.5	2482.1	2478.7	2483.2	2483.2	2476.4	2470.8	2460.7
5°	2583.5	2565.5	2546.3	2526.0	2506.9	2486.6	2478.7	2477.6	2465.2	2458.4	2455.0
7.5°	2613.9	2604.9	2583.5	2555.3	2526.0	2490.0	2474.2	2465.2	2452.8	2450.5	2450.5
10°	2617.3	2607.1	2595.9	2575.6	2541.8	2494.5	2464.1	2446.0	2434.8	2442.6	2457.3
12.5°	2584.6	2603.8	2593.6	2580.1	2553.1	2495.6	2451.7	2424.6	2421.2	2441.5	2479.8
15°	2501.2	2557.6	2585.7	2572.2	2550.8	2493.3	2431.4	2399.8	2399.8	2441.5	2491.1
17.5°	2438.1	2482.1	2550.8	2562.1	2537.3	2488.8	2412.2	2375.0	2385.2	2446.0	2499.0
20°	2386.3	2413.4	2479.8	2542.9	2519.3	2478.7	2384.1	2345.8	2366.0	2439.3	2510.2
22.5°	2305.2	2359.3	2399.8	2493.3	2501.2	2459.5	2355.9	2309.7	2350.3	2439.3	2504.6
25°	2226.3	2291.7	2334.5	2425.7	2474.2	2435.9	2330.0	2271.4	2333.4	2435.9	2500.1
27.5°	2171.1	2201.5	2279.3	2344.6	2433.6	2404.3	2295.1	2229.7	2312.0	2417.9	2474.2
30°	2112.5	2132.8	2209.4	2271.4	2379.6	2368.3	2259.0	2183.5	2284.9	2401.0	2406.6
32.5°	2048.3	2070.8	2110.3	2200.4	2304.1	2334.5	2218.4	2137.3	2255.6	2375.0	2327.7
35°	1983.0	1999.9	2031.4	2128.3	2216.2	2283.8	2168.9	2084.4	2235.3	2335.6	2252.2
37.5°	1917.6	1935.6	1962.7	2043.8	2123.8	2236.5	2126.0	2031.4	2198.2	2265.8	2173.4
40°	1855.6	1865.8	1894.0	1944.7	2047.2	2188.0	2077.6	1976.2	2159.8	2176.7	2066.3
42.5°	1741.8	1792.6	1818.5	1859.0	1960.4	2121.5	2021.3	1917.6	2117.0	2087.7	1959.3
45°	1619.0	1729.5	1740.7	1781.3	1883.8	2050.6	1968.3	1860.2	2076.5	2011.1	1857.9
47.5°	1518.8	1598.8	1664.1	1697.9	1792.6	1967.2	1918.7	1811.7	2015.6	1914.2	1758.8
50°	1429.8	1472.6	1590.9	1615.7	1683.3	1866.9	1860.2	1755.4	1931.1	1792.6	1661.9
52.5°	1343.0	1373.4	1480.5	1533.4	1588.6	1758.8	1790.3	1700.2	1838.7	1670.9	1563.8
55°	1267.5	1277.7	1336.2	1447.8	1497.4	1649.5	1713.7	1635.9	1721.6	1554.8	1469.2
57.5°	1189.8	1180.8	1223.6	1366.7	1402.7	1537.9	1632.6	1570.6	1626.9	1436.5	1371.2
60°	1108.7	1096.3	1114.3	1208.9	1302.4	1427.5	1536.8	1498.5	1512.0	1319.3	1261.9
62.5°	1024.2	1011.8	1006.1	1065.8	1204.4	1313.7	1439.9	1418.5	1371.2	1212.3	1126.7
65°	936.3	923.9	914.9	938.5	1096.3	1166.1	1331.7	1326.1	1216.8	1099.6	948.7
67.5°	285.1	840.5	821.4	820.2	923.9	1032.0	1214.6	1205.5	1061.3	979.1	816.8
70°	256.9	681.6	724.5	714.3	759.4	895.7	1080.5	1073.7	910.4	785.3	722.2
72.5°	235.5	241.1	640.0	628.7	638.8	761.6	940.8	922.8	771.8	619.7	624.2
75°	201.7	211.8	220.8	530.7	517.1	630.9	788.7	760.5	636.6	511.5	521.7
77.5°	164.5	176.9	183.6	386.5	418.0	449.5	629.8	592.6	438.3	409.0	194.9
80°	122.8	132.9	144.2	154.4	317.7	314.3	467.6	430.4	305.3	254.6	152.1
82.5°	90.1	93.5	100.3	111.5	126.2	210.7	300.8	264.8	211.8	116.0	104.8
85°	56.3	60.8	64.2	67.6	76.6	126.2	148.7	118.3	89.0	71.0	66.5
87.5°	36.1	36.1	34.9	36.1	37.2	45.1	50.7	48.4	38.3	36.1	36.1
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: P1214154

CATALOG NUMBER: 4SNLED-LD5-50SL-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°	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4
2.5°	2449.4	2433.6	2433.6	2429.1	2432.5	2432.5	2431.4	2432.5	2440.4	2444.9	2452.8
5°	2448.3	2443.8	2453.9	2466.3	2481.0	2499.0	2503.5	2519.3	2533.9	2553.1	2573.3
7.5°	2462.9	2478.7	2497.9	2518.1	2547.4	2568.8	2588.0	2607.1	2620.7	2638.7	2650.0
10°	2484.3	2515.9	2548.6	2574.5	2606.0	2624.0	2636.4	2638.7	2619.5	2589.1	2564.3
12.5°	2514.8	2551.9	2582.4	2607.1	2621.8	2615.0	2579.0	2541.8	2520.4	2488.8	2444.9
15°	2540.7	2574.5	2606.0	2595.9	2556.4	2519.3	2491.1	2447.2	2404.3	2375.0	2355.9
17.5°	2551.9	2584.6	2573.3	2520.4	2483.2	2440.4	2382.9	2349.1	2321.0	2298.4	2287.2
20°	2558.7	2553.1	2492.2	2453.9	2381.8	2342.4	2305.2	2273.6	2252.2	2241.0	2238.7
22.5°	2540.7	2471.9	2420.1	2351.4	2298.4	2265.8	2236.5	2210.5	2195.9	2186.9	2181.3
25°	2481.0	2401.0	2324.3	2270.3	2225.2	2197.0	2174.5	2153.1	2135.1	2130.6	2119.3
27.5°	2397.6	2332.2	2230.8	2189.1	2149.7	2136.2	2111.4	2090.0	2074.2	2060.7	2024.6
30°	2328.9	2225.2	2152.0	2113.7	2090.0	2074.2	2046.1	2023.5	1996.5	1946.9	1926.6
32.5°	2244.3	2141.8	2072.0	2050.6	2021.3	2007.7	1976.2	1926.6	1884.9	1864.7	1863.5
35°	2135.1	2050.6	1999.9	1980.7	1957.0	1934.5	1869.2	1824.1	1803.8	1806.1	1823.0
37.5°	2043.8	1968.3	1935.6	1908.6	1881.6	1824.1	1768.9	1747.5	1753.1	1764.4	1772.3
40°	1951.4	1894.0	1856.8	1835.4	1774.5	1718.2	1688.9	1696.8	1706.9	1714.8	1724.9
42.5°	1861.3	1820.7	1783.5	1741.8	1658.5	1628.1	1634.8	1645.0	1654.0	1665.2	1675.4
45°	1775.7	1739.6	1696.8	1602.1	1560.5	1568.3	1578.5	1586.4	1599.9	1607.8	1617.9
47.5°	1694.5	1656.2	1580.7	1497.4	1492.9	1508.6	1517.6	1527.8	1537.9	1517.6	837.1
50°	1603.3	1563.8	1448.9	1417.4	1427.5	1442.2	1453.4	1463.6	1303.6	518.3	398.8
52.5°	1513.1	1412.9	1339.6	1348.6	1358.8	1375.7	1383.6	1027.5	409.0	389.8	391.0
55°	1412.9	1284.4	1263.0	1274.3	1283.3	1300.2	861.9	377.4	375.2	374.1	383.1
57.5°	1255.1	1177.4	1186.4	1197.7	1206.7	851.8	367.3	365.0	366.2	367.3	368.4
60°	1114.3	1097.4	1107.5	1117.7	790.9	354.9	348.1	349.3	353.8	350.4	341.4
62.5°	1002.7	1016.3	1026.4	899.1	336.9	333.5	336.9	333.5	325.6	320.0	308.7
65°	917.1	930.6	938.5	316.6	315.5	320.0	316.6	305.3	292.9	277.2	273.8
67.5°	827.0	840.5	300.8	292.9	297.4	291.8	278.3	264.8	255.8	242.2	236.6
70°	733.5	314.3	272.7	271.5	263.6	254.6	240.0	226.5	215.2	209.6	203.9
72.5°	529.5	249.0	245.6	236.6	223.1	210.7	198.3	190.4	184.8	181.4	178.0
75°	220.8	216.3	206.2	190.4	176.9	171.3	162.2	156.6	154.4	147.6	145.3
77.5°	184.8	175.8	161.1	149.8	142.0	138.6	131.8	125.1	121.7	120.6	116.0
80°	142.0	129.6	122.8	117.2	114.9	107.0	99.1	95.8	93.5	92.4	89.0
82.5°	96.9	92.4	87.9	80.0	80.0	76.6	73.2	71.0	68.7	68.7	66.5
85°	63.1	59.7	58.6	55.2	55.2	53.0	51.8	50.7	49.6	48.4	47.3
87.5°	36.1	36.1	37.2	36.1	36.1	34.9	33.8	32.7	31.5	31.5	29.3
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-LD5-50SL-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°	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4
2.5°	2462.9	2474.2	2476.4	2514.8	2536.2	2535.0	2528.3	2548.6	2536.2	2529.4	2536.2
5°	2593.6	2607.1	2618.4	2660.1	2674.7	2681.5	2680.4	2691.6	2682.6	2674.7	2674.7
7.5°	2657.8	2662.3	2666.9	2656.7	2650.0	2638.7	2621.8	2597.0	2584.6	2571.1	2554.2
10°	2551.9	2537.3	2542.9	2522.6	2505.7	2493.3	2477.6	2457.3	2440.4	2428.0	2408.8
12.5°	2422.4	2421.2	2423.5	2426.9	2410.0	2399.8	2387.4	2372.8	2360.4	2346.9	2331.1
15°	2343.5	2344.6	2353.6	2350.3	2344.6	2339.0	2325.5	2321.0	2309.7	2295.1	2286.0
17.5°	2287.2	2292.8	2301.8	2297.3	2288.3	2282.7	2272.5	2262.4	2252.2	2241.0	2227.4
20°	2237.6	2243.2	2248.9	2243.2	2226.3	2218.4	2204.9	2173.4	2150.8	2128.3	2108.0
22.5°	2183.5	2186.9	2182.4	2164.4	2121.5	2101.3	2085.5	2076.5	2057.3	2044.9	2032.5
25°	2115.9	2096.8	2067.5	2047.2	2030.3	2021.3	2014.5	2013.4	2011.1	2008.9	2003.2
27.5°	2005.5	1998.7	1983.0	1975.1	1976.2	1979.6	1980.7	1984.1	1980.7	1976.2	1971.7
30°	1923.2	1926.6	1927.8	1930.0	1935.6	1939.0	1940.1	1944.7	1942.4	1939.0	1936.8
32.5°	1871.4	1879.3	1883.8	1890.6	1894.0	1899.6	1899.6	1906.3	1899.6	1898.5	1896.2
35°	1828.6	1835.4	1837.6	1847.8	1851.1	1856.8	1856.8	1862.4	1856.8	1799.3	1420.7
37.5°	1785.8	1792.6	1797.1	1806.1	1807.2	1810.6	1670.9	1222.4	788.7	610.7	466.4
40°	1735.1	1743.0	1747.5	1750.9	1230.3	780.8	537.4	437.2	437.2	440.5	443.9
42.5°	1681.0	1686.6	1175.1	683.9	425.9	424.8	428.1	431.5	434.9	439.4	443.9
45°	1321.6	667.0	423.6	413.5	416.9	421.4	425.9	430.4	436.0	440.5	442.8
47.5°	433.8	406.7	412.4	407.9	413.5	419.1	423.6	428.1	429.3	430.4	429.3
50°	401.1	401.1	404.5	404.5	409.0	411.2	411.2	411.2	406.7	405.6	402.2
52.5°	387.6	396.6	392.1	394.3	392.1	388.7	385.3	381.9	375.2	372.9	368.4
55°	380.8	384.2	372.9	369.6	365.0	356.0	351.5	347.0	341.4	339.1	333.5
57.5°	365.0	357.2	344.8	339.1	331.2	322.2	317.7	314.3	308.7	306.5	303.1
60°	335.8	320.0	312.1	305.3	296.3	288.4	285.1	282.8	278.3	277.2	273.8
62.5°	299.7	286.2	279.4	270.4	263.6	259.1	255.8	254.6	250.1	250.1	247.9
65°	260.3	253.5	247.9	238.9	235.5	231.0	229.8	228.7	226.5	225.3	223.1
67.5°	228.7	224.2	216.3	211.8	209.6	206.2	203.9	201.7	197.2	194.9	191.5
70°	200.5	197.2	189.3	185.9	181.4	175.8	172.4	170.1	166.7	164.5	161.1
72.5°	173.5	163.4	157.7	154.4	151.0	145.3	144.2	142.0	138.6	137.5	134.1
75°	139.7	131.8	128.4	126.2	122.8	119.4	119.4	119.4	116.0	114.9	113.8
77.5°	111.5	107.0	104.8	102.5	101.4	99.1	95.8	94.6	91.3	91.3	90.1
80°	85.6	83.4	81.1	80.0	78.9	76.6	74.4	73.2	69.9	69.9	68.7
82.5°	63.1	62.0	60.8	59.7	58.6	57.5	54.1	53.0	50.7	50.7	49.6
85°	45.1	43.9	41.7	40.6	40.6	39.4	36.1	34.9	32.7	32.7	32.7
87.5°	28.2	27.0	25.9	24.8	23.7	22.5	20.3	19.2	19.2	16.9	15.8
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: P1214154

CATALOG NUMBER: 4SNLED-LD5-50SL-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°	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4
2.5°	2522.6	2541.8	2539.5	2553.1	2556.4	2563.2	2565.5	2566.6	2549.7	2563.2	2564.3
5°	2671.4	2674.7	2677.0	2682.6	2688.3	2689.4	2683.8	2677.0	2679.2	2674.7	2663.5
7.5°	2551.9	2535.0	2531.7	2527.1	2524.9	2522.6	2512.5	2521.5	2511.4	2506.9	2491.1
10°	2405.5	2389.7	2388.6	2388.6	2391.9	2390.8	2388.6	2384.1	2393.1	2387.4	2384.1
12.5°	2328.9	2323.2	2326.6	2324.3	2333.4	2335.6	2333.4	2333.4	2331.1	2326.6	2328.9
15°	2282.7	2278.2	2281.5	2278.2	2284.9	2286.0	2280.4	2283.8	2278.2	2272.5	2270.3
17.5°	2221.8	2211.7	2203.8	2192.5	2193.6	2191.4	2184.6	2184.6	2179.0	2164.4	2165.5
20°	2104.6	2094.5	2090.0	2090.0	2095.6	2097.9	2096.8	2099.0	2093.4	2091.1	2082.1
22.5°	2031.4	2030.3	2032.5	2038.2	2047.2	2059.6	2060.7	2060.7	2060.7	2059.6	2048.3
25°	2005.5	2005.5	2007.7	2015.6	2022.4	2031.4	2033.7	2035.9	2033.7	2033.7	2023.5
27.5°	1976.2	1973.9	1978.5	1986.3	1994.2	2001.0	2006.6	2007.7	2004.4	2004.4	2007.7
30°	1940.1	1939.0	1944.7	1952.5	1959.3	1966.1	1971.7	1976.2	1971.7	1971.7	1968.3
32.5°	1903.0	1903.0	1905.2	1857.9	1722.7	1551.4	1554.8	1455.7	1386.9	1300.2	1415.1
35°	1187.5	864.2	742.5	628.7	548.7	496.9	495.7	478.8	471.0	465.3	464.2
37.5°	448.4	450.7	455.2	457.4	460.8	463.1	464.2	464.2	464.2	464.2	463.1
40°	447.3	451.8	455.2	458.6	461.9	464.2	464.2	465.3	466.4	466.4	466.4
42.5°	448.4	452.9	457.4	460.8	463.1	464.2	465.3	466.4	466.4	466.4	466.4
45°	447.3	449.5	449.5	450.7	450.7	450.7	451.8	451.8	450.7	449.5	451.8
47.5°	430.4	430.4	427.0	425.9	424.8	422.5	423.6	422.5	421.4	420.3	422.5
50°	401.1	396.6	394.3	392.1	391.0	388.7	389.8	388.7	387.6	385.3	388.7
52.5°	366.2	365.0	360.5	358.3	357.2	358.3	356.0	354.9	353.8	352.7	353.8
55°	332.4	327.9	326.7	324.5	323.4	324.5	323.4	322.2	321.1	320.0	321.1
57.5°	302.0	298.6	297.4	295.2	295.2	295.2	295.2	294.1	292.9	291.8	292.9
60°	272.7	270.4	269.3	269.3	268.2	268.2	268.2	267.0	265.9	265.9	267.0
62.5°	247.9	247.9	244.5	243.4	243.4	244.5	243.4	242.2	241.1	240.0	242.2
65°	222.0	217.4	216.3	214.1	211.8	212.9	211.8	210.7	209.6	208.4	210.7
67.5°	190.4	189.3	184.8	182.5	181.4	182.5	181.4	180.3	179.1	178.0	180.3
70°	160.0	160.0	155.5	154.4	153.2	153.2	152.1	152.1	151.0	149.8	152.1
72.5°	132.9	132.9	131.8	129.6	128.4	127.3	126.2	125.1	125.1	126.2	126.2
75°	110.4	108.2	103.7	104.8	103.7	102.5	102.5	101.4	100.3	102.5	101.4
77.5°	86.8	85.6	82.2	83.4	82.2	81.1	81.1	80.0	78.9	80.0	80.0
80°	65.3	65.3	64.2	63.1	63.1	62.0	60.8	60.8	59.7	60.8	60.8
82.5°	47.3	47.3	46.2	45.1	43.9	43.9	42.8	42.8	42.8	42.8	42.8
85°	30.4	29.3	29.3	27.0	27.0	27.0	25.9	25.9	25.9	25.9	25.9
87.5°	14.6	14.6	13.5	13.5	12.4	11.3	11.3	10.1	10.1	11.3	11.3
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: P1214154

CATALOG NUMBER: 4SNLED-LD5-50SL-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°	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4
2.5°	2544.0	2558.7	2546.3	2551.9	2553.1	2572.2	2571.1	2575.6	2567.7	2558.7	2546.3
5°	2673.6	2666.9	2657.8	2679.2	2668.0	2681.5	2686.0	2695.0	2695.0	2693.9	2683.8
7.5°	2508.0	2493.3	2504.6	2512.5	2515.9	2506.9	2524.9	2545.2	2562.1	2572.2	2573.3
10°	2378.4	2382.9	2381.8	2385.2	2393.1	2391.9	2403.2	2414.5	2419.0	2425.7	2428.0
12.5°	2317.6	2316.5	2318.7	2326.6	2331.1	2330.0	2341.2	2348.0	2350.3	2351.4	2350.3
15°	2269.1	2261.3	2266.9	2268.0	2271.4	2271.4	2284.9	2295.1	2299.6	2301.8	2299.6
17.5°	2177.9	2158.7	2176.7	2176.7	2189.1	2186.9	2208.3	2225.2	2234.2	2241.0	2241.0
20°	2087.7	2078.7	2085.5	2083.2	2092.2	2091.1	2104.6	2115.9	2123.8	2129.4	2136.2
22.5°	2051.7	2053.9	2043.8	2044.9	2044.9	2043.8	2050.6	2056.2	2058.4	2061.8	2059.6
25°	2028.0	2030.3	2026.9	2021.3	2019.0	2021.3	2024.6	2031.4	2032.5	2030.3	2022.4
27.5°	2004.4	1997.6	2003.2	1993.1	1990.8	1995.4	1999.9	2001.0	2002.1	2002.1	1995.4
30°	1968.3	1962.7	1968.3	1963.8	1959.3	1963.8	1967.2	1967.2	1969.4	1970.6	1962.7
32.5°	1375.7	1386.9	1569.5	1679.9	1835.4	1914.2	1928.9	1928.9	1931.1	1931.1	1924.4
35°	468.7	469.8	508.1	550.9	642.2	754.9	902.5	979.1	1238.2	1548.1	1847.8
37.5°	463.1	461.9	460.8	459.7	458.6	457.4	455.2	454.1	460.8	546.4	741.4
40°	465.3	464.2	461.9	460.8	459.7	457.4	456.3	454.1	451.8	449.5	447.3
42.5°	465.3	464.2	463.1	461.9	460.8	459.7	457.4	455.2	452.9	449.5	446.2
45°	449.5	449.5	450.7	450.7	451.8	451.8	451.8	450.7	450.7	449.5	445.0
47.5°	420.3	420.3	423.6	423.6	425.9	428.1	428.1	430.4	433.8	436.0	437.2
50°	386.5	386.5	389.8	391.0	393.2	396.6	400.0	401.1	404.5	409.0	413.5
52.5°	352.7	352.7	356.0	356.0	358.3	361.7	365.0	366.2	370.7	375.2	380.8
55°	321.1	321.1	323.4	324.5	325.6	327.9	331.2	331.2	335.8	339.1	344.8
57.5°	292.9	295.2	295.2	295.2	296.3	298.6	300.8	300.8	304.2	307.6	312.1
60°	265.9	268.2	268.2	268.2	269.3	270.4	272.7	272.7	274.9	277.2	281.7
62.5°	241.1	243.4	243.4	244.5	244.5	245.6	247.9	246.7	249.0	250.1	253.5
65°	209.6	211.8	212.9	214.1	215.2	217.4	220.8	219.7	223.1	225.3	228.7
67.5°	179.1	181.4	181.4	182.5	183.6	185.9	188.2	188.2	191.5	193.8	198.3
70°	151.0	153.2	153.2	154.4	155.5	157.7	160.0	158.9	162.2	164.5	167.9
72.5°	125.1	127.3	127.3	128.4	128.4	130.7	132.9	135.2	135.2	137.5	139.7
75°	101.4	102.5	103.7	103.7	104.8	105.9	108.2	110.4	111.5	112.7	114.9
77.5°	80.0	81.1	82.2	82.2	83.4	84.5	85.6	90.1	92.4	93.5	93.5
80°	60.8	62.0	62.0	62.0	63.1	64.2	66.5	66.5	71.0	71.0	72.1
82.5°	42.8	43.9	43.9	43.9	45.1	47.3	48.4	49.6	51.8	53.0	53.0
85°	25.9	27.0	27.0	27.0	28.2	29.3	31.5	32.7	33.8	33.8	34.9
87.5°	10.1	11.3	12.4	12.4	13.5	14.6	15.8	16.9	18.0	18.0	19.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4
2.5°	2532.8	2540.7	2532.8	2537.3	2542.9	2532.8	2509.1	2500.1	2496.7	2483.2	2474.2
5°	2673.6	2673.6	2670.2	2679.2	2678.1	2662.3	2637.6	2626.3	2615.0	2600.4	2589.1
7.5°	2573.3	2582.4	2588.0	2622.9	2645.4	2647.7	2663.5	2666.9	2671.4	2666.9	2660.1
10°	2429.1	2425.7	2441.5	2474.2	2493.3	2503.5	2533.9	2548.6	2560.9	2585.7	2611.6
12.5°	2348.0	2352.5	2359.3	2382.9	2401.0	2396.5	2408.8	2419.0	2433.6	2458.4	2495.6
15°	2293.9	2298.4	2305.2	2323.2	2334.5	2328.9	2335.6	2342.4	2352.5	2364.9	2387.4
17.5°	2235.3	2243.2	2251.1	2270.3	2280.4	2279.3	2284.9	2287.2	2290.5	2298.4	2314.2
20°	2144.1	2168.9	2184.6	2210.5	2225.2	2222.9	2233.1	2236.5	2241.0	2248.9	2255.6
22.5°	2060.7	2067.5	2075.3	2103.5	2128.3	2158.7	2165.5	2174.5	2185.8	2193.6	2200.4
25°	2013.4	2008.9	2012.3	2031.4	2044.9	2047.2	2057.3	2086.6	2117.0	2130.6	2146.3
27.5°	1985.2	1980.7	1979.6	1988.6	1990.8	1985.2	1983.0	1992.0	2014.5	2037.0	2084.4
30°	1954.8	1949.2	1944.7	1952.5	1955.9	1948.0	1933.4	1925.5	1939.0	1944.7	1963.8
32.5°	1918.7	1913.1	1910.9	1915.4	1917.6	1910.9	1895.1	1886.1	1883.8	1879.3	1883.8
35°	1878.2	1872.5	1869.2	1870.3	1874.8	1869.2	1855.6	1844.4	1838.7	1826.4	1817.3
37.5°	967.8	1371.2	1780.2	1823.0	1827.5	1826.4	1812.8	1800.4	1794.8	1780.2	1775.7
40°	442.8	494.6	742.5	970.1	1399.3	1777.9	1765.5	1753.1	1743.0	1738.5	1721.6
42.5°	441.7	442.8	443.9	438.3	543.1	925.0	1365.5	1704.7	1697.9	1686.6	1674.2
45°	441.7	436.0	440.5	433.8	436.0	434.9	541.9	874.3	1555.9	1625.8	1620.2
47.5°	437.2	433.8	438.3	432.6	425.9	429.3	424.8	430.4	671.5	1139.1	1560.5
50°	416.9	419.1	427.0	425.9	420.3	424.8	416.9	423.6	418.0	458.6	883.3
52.5°	386.5	391.0	398.8	405.6	407.9	413.5	411.2	413.5	409.0	410.1	411.2
55°	350.4	356.0	362.8	372.9	377.4	386.5	393.2	396.6	402.2	401.1	392.1
57.5°	316.6	322.2	327.9	338.0	348.1	352.7	365.0	371.8	386.5	383.1	380.8
60°	285.1	289.6	295.2	297.4	309.8	317.7	329.0	335.8	354.9	359.4	366.2
62.5°	256.9	259.1	263.6	267.0	274.9	282.8	288.4	299.7	309.8	324.5	334.6
65°	231.0	233.2	236.6	238.9	240.0	251.3	254.6	267.0	270.4	286.2	295.2
67.5°	201.7	206.2	210.7	212.9	215.2	222.0	224.2	229.8	237.7	244.5	255.8
70°	171.3	174.6	179.1	182.5	187.0	191.5	198.3	201.7	207.3	211.8	220.8
72.5°	143.1	146.5	148.7	152.1	155.5	158.9	164.5	172.4	176.9	184.8	187.0
75°	116.0	119.4	121.7	123.9	127.3	129.6	131.8	139.7	144.2	151.0	157.7
77.5°	95.8	95.8	98.0	104.8	103.7	103.7	105.9	110.4	113.8	118.3	125.1
80°	74.4	75.5	76.6	82.2	83.4	84.5	83.4	86.8	90.1	91.3	95.8
82.5°	55.2	56.3	56.3	59.7	63.1	63.1	63.1	64.2	67.6	68.7	71.0
85°	37.2	38.3	39.4	40.6	42.8	43.9	45.1	45.1	47.3	48.4	49.6
87.5°	20.3	22.5	23.7	24.8	25.9	27.0	28.2	29.3	30.4	31.5	32.7
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°	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4
2.5°	2470.8	2465.2	2461.8	2452.8	2450.5	2435.9	2438.1	2435.9	2435.9	2439.3	2450.5
5°	2576.7	2549.7	2542.9	2523.8	2508.0	2481.0	2464.1	2455.0	2441.5	2435.9	2443.8
7.5°	2648.8	2628.5	2611.6	2594.7	2572.2	2540.7	2517.0	2490.0	2467.4	2446.0	2440.4
10°	2636.4	2659.0	2659.0	2648.8	2627.4	2595.9	2567.7	2533.9	2494.5	2460.7	2440.4
12.5°	2531.7	2571.1	2602.6	2626.3	2647.7	2626.3	2598.1	2571.1	2527.1	2477.6	2440.4
15°	2416.7	2457.3	2496.7	2546.3	2598.1	2619.5	2618.4	2586.9	2547.4	2495.6	2443.8
17.5°	2335.6	2363.8	2385.2	2439.3	2502.4	2557.6	2594.7	2597.0	2558.7	2512.5	2444.9
20°	2274.8	2295.1	2313.1	2343.5	2398.7	2466.3	2535.0	2573.3	2566.6	2515.9	2448.3
22.5°	2219.6	2234.2	2248.9	2271.4	2315.3	2359.3	2439.3	2518.1	2551.9	2510.2	2444.9
25°	2164.4	2180.1	2191.4	2207.2	2242.1	2278.2	2334.5	2432.5	2508.0	2505.7	2438.1
27.5°	2099.0	2120.4	2133.9	2155.3	2179.0	2206.0	2244.3	2336.7	2444.9	2483.2	2420.1
30°	2020.1	2051.7	2072.0	2095.6	2115.9	2139.6	2170.0	2226.3	2360.4	2439.3	2401.0
32.5°	1906.3	1962.7	2007.7	2030.3	2052.8	2073.1	2100.1	2147.5	2256.7	2379.6	2379.6
35°	1825.2	1851.1	1891.7	1957.0	1985.2	2005.5	2030.3	2067.5	2137.3	2308.6	2344.6
37.5°	1762.1	1772.3	1792.6	1856.8	1909.7	1942.4	1967.2	1990.8	2059.6	2211.7	2299.6
40°	1714.8	1711.4	1709.2	1739.6	1815.1	1866.9	1895.1	1918.7	1971.7	2095.6	2239.8
42.5°	1659.6	1656.2	1645.0	1652.8	1690.0	1776.8	1819.6	1845.5	1889.4	1973.9	2174.5
45°	1602.1	1596.5	1592.0	1584.1	1597.6	1646.1	1734.0	1772.3	1797.1	1872.5	2092.2
47.5°	1543.6	1535.7	1530.0	1523.3	1515.4	1537.9	1621.3	1690.0	1732.8	1780.2	1993.1
50°	1460.2	1470.3	1463.6	1455.7	1448.9	1444.4	1479.3	1592.0	1645.0	1683.3	1872.5
52.5°	688.4	1338.5	1394.8	1386.9	1377.9	1370.0	1377.9	1463.6	1559.3	1589.7	1727.2
55°	392.1	596.0	1240.5	1311.5	1303.6	1292.3	1285.5	1314.8	1457.9	1498.5	1594.3
57.5°	377.4	378.6	547.6	1181.9	1225.8	1215.7	1207.8	1214.6	1336.2	1405.0	1478.2
60°	365.0	365.0	365.0	522.8	1130.1	1133.4	1123.3	1112.0	1165.0	1300.2	1361.0
62.5°	338.0	344.8	348.1	348.1	516.0	1046.7	1036.5	1033.2	1035.4	1174.0	1243.9
65°	303.1	318.9	325.6	330.1	330.1	541.9	947.5	941.9	934.0	987.0	1125.6
67.5°	264.8	280.5	295.2	304.2	305.3	315.5	565.6	848.4	837.1	838.3	999.4
70°	225.3	238.9	254.6	268.2	280.5	286.2	295.2	704.2	741.4	725.6	856.3
72.5°	194.9	200.5	211.8	225.3	240.0	253.5	261.4	280.5	643.3	626.4	651.2
75°	162.2	166.7	174.6	183.6	194.9	210.7	224.2	237.7	341.4	525.0	521.7
77.5°	126.2	134.1	143.1	148.7	154.4	165.6	183.6	197.2	210.7	354.9	418.0
80°	96.9	102.5	107.0	112.7	119.4	127.3	134.1	149.8	165.6	178.0	320.0
82.5°	72.1	75.5	78.9	81.1	83.4	87.9	100.3	105.9	116.0	127.3	151.0
85°	50.7	53.0	55.2	56.3	57.5	58.6	63.1	64.2	74.4	76.6	91.3
87.5°	32.7	33.8	36.1	37.2	37.2	38.3	39.4	39.4	39.4	37.2	45.1
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: P1214154

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CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	2458.4	2458.4
2.5°	2459.5	2477.6
5°	2456.2	2479.8
7.5°	2447.2	2469.7
10°	2433.6	2460.7
12.5°	2419.0	2444.9
15°	2406.6	2425.7
17.5°	2393.1	2404.3
20°	2375.0	2384.1
22.5°	2357.0	2352.5
25°	2336.7	2326.6
27.5°	2310.8	2291.7
30°	2287.2	2253.4
32.5°	2264.6	2209.4
35°	2234.2	2164.4
37.5°	2202.7	2118.2
40°	2165.5	2065.2
42.5°	2126.0	2012.3
45°	2076.5	1961.6
47.5°	2032.5	1900.7
50°	1971.7	1835.4
52.5°	1897.3	1774.5
55°	1809.5	1700.2
57.5°	1714.8	1622.4
60°	1613.4	1533.4
62.5°	1490.6	1441.0
65°	1346.4	1335.1
67.5°	1158.2	1217.9
70°	949.8	1083.9
72.5°	794.3	941.9
75°	651.2	783.0
77.5°	516.0	614.0
80°	322.2	449.5
82.5°	216.3	295.2
85°	130.7	140.8
87.5°	50.7	51.8
90°	0.0	0.0

(END OF REPORT)