

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: P1213481

Luminaire Tested: 4SNLED-LD5-57HL-RW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213481
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-LD5-57HL-RW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

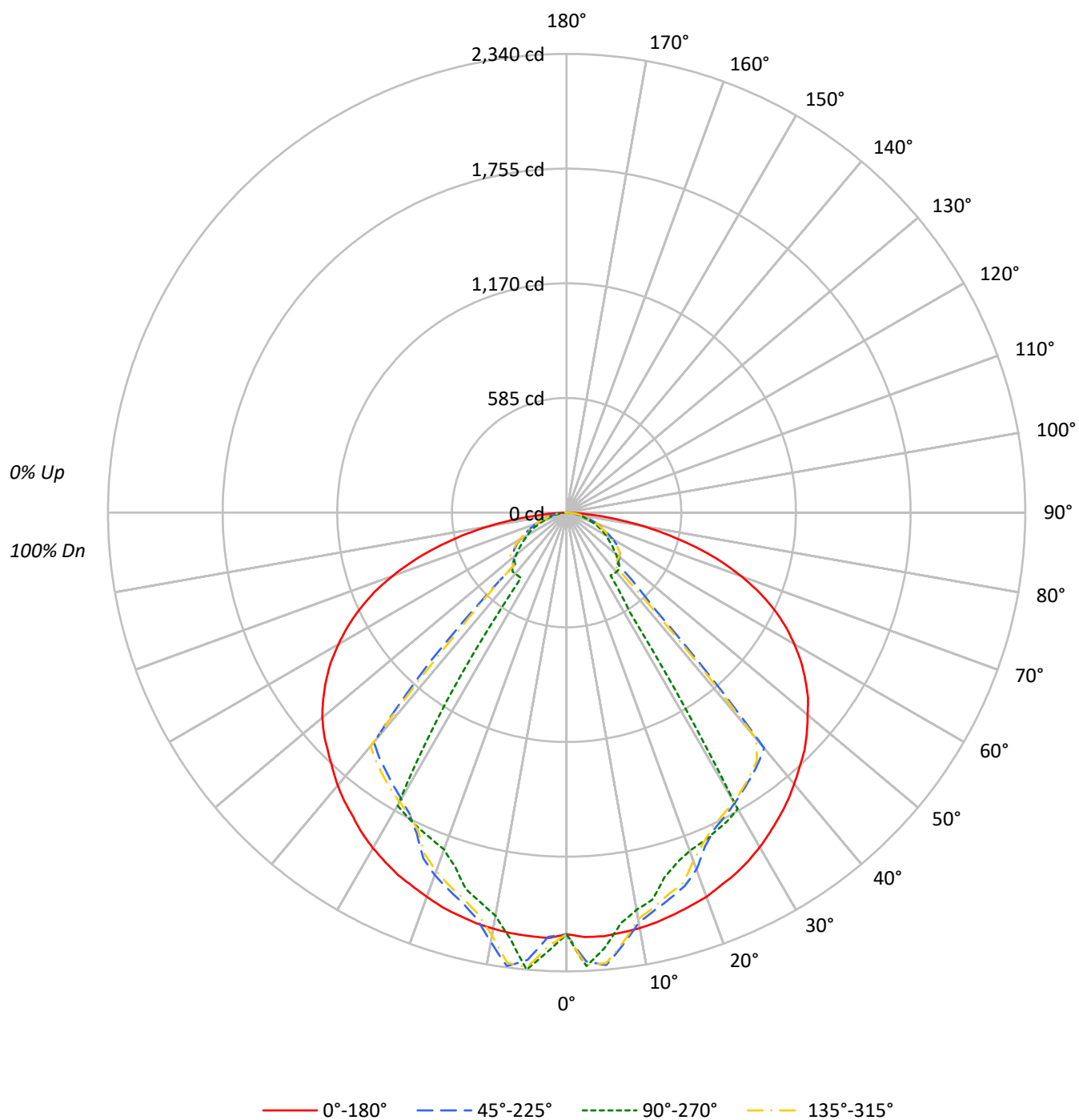
Lumens per Lamp: N/A
Luminaire Lumens: 4306.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 43
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	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°	17377	17377	17377	17377
5°	17547	17507	17539	18374
10°	17564	15829	17588	16071
15°	17603	14645	17644	15110
20°	17731	13890	17731	13838
25°	17884	13625	17911	13498
30°	18065	13385	18111	13226
35°	18276	3048	18313	3179
40°	18569	3170	18680	3273
45°	19013	3153	19079	3267
50°	19457	2851	19720	2927
55°	20056	2531	20216	2567
60°	20563	2249	20609	2278
65°	20927	1963	20874	1931
70°	20628	1582	20565	1525
75°	19151	1217	19288	1166
80°	15544	864	16168	791
85°	8417	519	8888	398

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 21071 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.6	4.9
10°-20°	581.7	13.5
20°-30°	861.6	20.0
30°-40°	868.1	20.2
40°-50°	678.1	15.7
50°-60°	523.8	12.2
60°-70°	351.7	8.2
70°-80°	179.4	4.2
80°-90°	49.9	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°	1654.9	38.4
0°-40°	2523.0	58.6
0°-60°	3725.0	86.5
0°-90°	4306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4306.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2150	2150	2150	2150	2150	
5°	2169	2229	2168	2340	2169	206
15°	2122	1927	2127	1988	2122	600
25°	2035	1796	2038	1779	2035	939
35°	1893	390	1897	407	1893	1186
45°	1716	379	1722	393	1716	1323
55°	1487	276	1499	280	1487	1328
65°	1168	185	1165	182	1168	1148
75°	685	94	690	90	685	716
85°	123	30	130	23	123	169
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°	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3
2.5°	2167.1	2174.9	2180.9	2184.8	2186.8	2186.8	2187.8	2188.7	2201.6	2207.5	2211.4
5°	2169.0	2176.9	2188.7	2204.5	2218.3	2230.1	2240.0	2253.8	2267.6	2282.4	2287.3
7.5°	2160.2	2170.0	2193.7	2222.2	2248.9	2267.6	2280.4	2289.3	2296.2	2297.1	2302.1
10°	2152.3	2170.0	2202.5	2240.0	2273.5	2296.2	2296.2	2291.2	2298.1	2271.5	2244.9
12.5°	2138.5	2158.2	2202.5	2251.8	2283.3	2292.2	2288.3	2268.6	2228.2	2195.6	2180.9
15°	2121.7	2148.3	2203.5	2258.7	2285.3	2288.3	2250.8	2200.6	2170.0	2150.3	2125.7
17.5°	2103.0	2138.5	2204.5	2259.7	2269.5	2255.8	2184.8	2153.3	2121.7	2075.4	2041.9
20°	2085.3	2119.8	2196.6	2245.9	2251.8	2189.7	2134.5	2101.0	2047.8	2007.4	1992.6
22.5°	2057.7	2098.1	2189.7	2227.2	2204.5	2132.6	2079.4	2026.1	1977.8	1966.0	1948.3
25°	2035.0	2077.4	2174.0	2204.5	2144.4	2080.3	2018.3	1956.2	1933.5	1916.7	1901.0
27.5°	2004.5	2056.7	2153.3	2163.1	2080.3	2024.2	1933.5	1905.9	1885.2	1866.5	1859.6
30°	1970.9	2035.0	2124.7	2106.0	2027.1	1944.3	1877.3	1851.7	1836.9	1817.2	1809.3
32.5°	1932.5	2002.5	2093.1	2039.9	1970.0	1866.5	1823.1	1803.4	1783.7	1768.9	1719.7
35°	1893.1	1973.9	2055.7	1976.9	1901.0	1807.4	1768.9	1751.2	1732.5	1678.3	1627.0
37.5°	1852.7	1942.4	2010.4	1908.9	1809.3	1746.3	1713.7	1694.0	1651.7	1582.7	1557.0
40°	1806.4	1903.9	1952.2	1838.9	1729.5	1684.2	1653.6	1633.9	1538.3	1507.8	1499.9
42.5°	1760.1	1866.5	1881.3	1770.9	1663.5	1618.1	1592.5	1527.5	1462.4	1446.7	1449.6
45°	1715.7	1826.1	1803.4	1674.3	1594.5	1557.0	1513.7	1424.0	1389.5	1397.4	1399.4
47.5°	1662.5	1777.8	1721.6	1577.7	1523.5	1486.1	1389.5	1335.3	1330.4	1341.2	1347.1
50°	1605.3	1723.6	1634.9	1490.0	1446.7	1402.3	1292.9	1265.3	1271.3	1282.1	1289.0
52.5°	1552.1	1662.5	1545.2	1408.2	1370.8	1269.3	1195.4	1200.3	1210.2	1223.0	1226.9
55°	1487.1	1588.6	1449.6	1325.5	1290.0	1156.9	1123.4	1135.3	1145.1	1156.0	1163.8
57.5°	1419.1	1503.8	1336.3	1232.8	1175.7	1057.4	1060.4	1068.3	1075.2	1088.0	449.4
60°	1341.2	1407.3	1212.1	1147.1	1033.8	978.6	981.5	995.3	1002.2	559.7	309.4
62.5°	1260.4	1294.9	1099.8	1049.5	903.7	899.7	913.5	919.4	625.8	295.6	289.7
65°	1167.8	1160.9	989.4	909.6	815.0	818.9	833.7	804.1	276.9	276.9	274.9
67.5°	1065.3	1023.9	882.0	752.9	729.3	738.1	753.9	263.1	256.2	258.2	251.3
70°	948.0	889.9	770.6	637.6	645.5	654.4	254.3	238.5	235.5	230.6	216.8
72.5°	823.9	744.0	630.7	553.8	558.8	350.8	222.7	214.8	205.0	195.1	180.3
75°	684.9	581.4	463.2	463.2	470.1	200.1	194.1	181.3	170.5	157.7	148.8
77.5°	537.1	447.4	359.7	373.5	182.3	167.5	156.7	142.9	134.0	126.1	121.2
80°	393.2	312.4	271.0	242.4	141.9	127.1	116.3	108.4	104.5	99.5	93.6
82.5°	258.2	188.2	188.2	114.3	99.5	87.7	84.8	78.8	74.9	71.9	69.0
85°	123.2	109.4	82.8	70.0	62.1	56.2	54.2	51.2	51.2	50.3	49.3
87.5°	45.3	49.3	36.5	35.5	33.5	32.5	33.5	33.5	34.5	33.5	32.5
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°	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3
2.5°	2221.3	2229.1	2235.1	2244.9	2257.7	2268.6	2278.4	2292.2	2313.9	2319.8	2324.7
5°	2287.3	2290.2	2297.1	2305.0	2307.0	2311.9	2310.9	2316.9	2319.8	2326.7	2311.9
7.5°	2291.2	2275.5	2256.7	2240.0	2228.2	2217.3	2210.4	2221.3	2227.2	2232.1	2217.3
10°	2208.4	2189.7	2178.9	2169.0	2157.2	2140.5	2117.8	2122.7	2120.7	2120.7	2115.8
12.5°	2156.2	2129.6	2102.0	2077.4	2066.5	2065.6	2066.5	2077.4	2077.4	2076.4	2070.5
15°	2074.4	2048.8	2035.0	2029.1	2029.1	2026.1	2026.1	2038.0	2035.0	2035.0	2032.0
17.5°	2020.2	2002.5	1992.6	1985.7	1982.8	1987.7	1993.6	1998.5	1999.5	1995.6	1979.8
20°	1975.9	1959.1	1947.3	1949.3	1948.3	1951.2	1954.2	1937.4	1916.7	1889.2	1876.3
22.5°	1929.6	1916.7	1907.9	1907.9	1896.1	1877.3	1849.7	1843.8	1840.9	1828.1	1817.2
25°	1885.2	1870.4	1857.6	1818.2	1793.6	1796.5	1791.6	1781.7	1780.8	1779.8	1783.7
27.5°	1840.9	1802.4	1753.2	1747.2	1737.4	1736.4	1742.3	1747.2	1747.2	1751.2	1756.1
30°	1749.2	1704.9	1696.0	1685.2	1689.1	1702.9	1705.9	1712.8	1714.7	1721.6	1725.6
32.5°	1665.5	1645.7	1637.9	1642.8	1655.6	1667.4	1674.3	1677.3	1682.2	1688.1	1693.0
35°	1597.5	1591.5	1598.4	1609.3	1622.1	1631.9	1637.9	1643.8	1648.7	1653.6	1657.6
37.5°	1547.2	1551.1	1561.0	1574.8	1587.6	1595.5	1600.4	1607.3	1614.2	1620.1	1596.5
40°	1499.9	1509.7	1520.6	1535.4	1546.2	1554.1	1559.0	1567.9	1508.8	682.9	374.5
42.5°	1458.5	1469.3	1477.2	1489.1	1500.9	1506.8	1463.4	653.4	369.6	367.6	372.5
45°	1408.2	1417.1	1429.9	1438.8	1449.6	952.0	363.6	367.6	361.7	365.6	367.6
47.5°	1357.0	1370.8	1377.7	1314.6	391.2	361.7	357.7	361.7	357.7	362.7	359.7
50°	1298.9	1315.6	936.2	353.8	350.8	348.9	352.8	350.8	353.8	357.7	349.8
52.5°	1239.7	767.7	342.9	341.0	342.9	341.0	347.9	342.9	343.9	340.0	330.1
55°	419.8	332.1	329.1	328.2	334.1	334.1	334.1	326.2	321.3	311.4	304.5
57.5°	321.3	321.3	320.3	321.3	319.3	317.3	308.5	301.6	294.7	280.9	276.9
60°	304.5	304.5	304.5	304.5	295.6	291.7	277.9	272.0	260.2	253.3	249.3
62.5°	290.7	288.7	279.9	276.9	267.1	256.2	248.3	242.4	230.6	226.7	223.7
65°	271.0	264.1	253.3	241.4	236.5	224.7	220.7	211.9	206.0	203.0	201.0
67.5°	238.5	228.6	219.8	211.9	203.0	199.1	194.1	187.2	183.3	181.3	179.4
70°	204.0	197.1	188.2	183.3	177.4	174.4	167.5	165.6	162.6	159.6	156.7
72.5°	170.5	166.5	162.6	155.7	153.7	151.8	144.9	140.9	137.0	133.0	131.1
75°	142.9	139.9	138.0	132.1	129.1	123.2	118.3	115.3	112.3	109.4	107.4
77.5°	117.3	115.3	109.4	105.4	103.5	98.5	96.6	97.6	95.6	91.6	89.7
80°	91.6	89.7	84.8	84.8	82.8	80.8	78.8	76.9	74.9	71.9	70.0
82.5°	70.0	68.0	66.0	64.1	62.1	61.1	60.1	58.1	56.2	54.2	53.2
85°	49.3	48.3	47.3	46.3	45.3	44.3	43.4	41.4	39.4	38.4	37.4
87.5°	33.5	32.5	31.5	30.5	29.6	28.6	27.6	26.6	24.6	23.7	22.7
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):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3
2.5°	2324.7	2329.7	2324.7	2313.9	2307.0	2304.0	2310.0	2310.0	2313.9	2318.8	2319.8
5°	2288.3	2276.4	2262.6	2248.9	2242.0	2238.0	2227.2	2229.1	2232.1	2234.1	2236.0
7.5°	2197.6	2181.8	2163.1	2145.4	2138.5	2132.6	2119.8	2119.8	2119.8	2120.7	2126.7
10°	2105.0	2098.1	2090.2	2078.4	2069.5	2066.5	2055.7	2058.7	2056.7	2059.6	2066.5
12.5°	2061.6	2053.7	2046.8	2035.0	2025.2	2021.2	2016.3	2019.2	2018.3	2023.2	2029.1
15°	2022.2	2018.3	2010.4	2001.5	1992.6	1984.7	1967.0	1961.1	1957.2	1952.2	1959.1
17.5°	1957.2	1929.6	1910.8	1897.0	1887.2	1880.3	1875.4	1875.4	1878.3	1881.3	1887.2
20°	1868.5	1860.6	1851.7	1836.9	1827.1	1823.1	1820.2	1820.2	1825.1	1829.0	1839.9
22.5°	1807.4	1806.4	1803.4	1796.5	1791.6	1791.6	1792.6	1794.5	1801.4	1807.4	1818.2
25°	1778.8	1782.7	1780.8	1776.8	1773.9	1774.8	1772.9	1774.8	1781.7	1787.7	1796.5
27.5°	1756.1	1762.0	1760.1	1754.1	1749.2	1751.2	1754.1	1752.2	1758.1	1765.0	1771.9
30°	1725.6	1726.6	1730.5	1723.6	1721.6	1724.6	1725.6	1727.5	1733.4	1738.4	1744.3
32.5°	1691.1	1699.0	1698.0	1691.1	1691.1	1694.0	1695.0	1629.0	1505.8	1296.9	1239.7
35°	1657.6	1666.4	1651.7	1392.5	963.8	514.4	397.1	383.3	386.3	388.3	390.2
37.5°	1225.9	581.4	370.5	373.5	376.5	379.4	382.4	385.3	388.3	391.2	392.2
40°	368.6	367.6	370.5	374.5	377.4	379.4	383.3	386.3	389.3	392.2	393.2
42.5°	364.6	366.6	369.6	373.5	377.4	381.4	384.3	388.3	390.2	392.2	393.2
45°	362.7	366.6	370.5	373.5	376.5	378.4	380.4	381.4	380.4	380.4	382.4
47.5°	359.7	363.6	364.6	363.6	364.6	363.6	363.6	363.6	360.7	359.7	359.7
50°	348.9	348.9	346.9	342.9	342.0	341.0	339.0	338.0	334.1	333.1	333.1
52.5°	326.2	325.2	322.3	317.3	315.4	313.4	312.4	311.4	307.5	305.5	306.5
55°	299.6	297.6	294.7	288.7	287.8	285.8	284.8	283.8	279.9	281.8	278.9
57.5°	274.9	271.0	267.1	266.1	262.1	261.2	260.2	259.2	256.2	257.2	255.2
60°	245.4	244.4	242.4	238.5	238.5	237.5	237.5	235.5	233.6	232.6	232.6
62.5°	223.7	220.7	218.8	218.8	215.8	215.8	215.8	213.8	211.9	212.9	211.9
65°	200.1	199.1	198.1	196.1	196.1	195.1	195.1	193.2	190.2	191.2	189.2
67.5°	180.3	178.4	176.4	175.4	171.5	169.5	168.5	167.5	163.6	164.6	162.6
70°	155.7	152.7	150.8	148.8	145.9	143.9	143.9	141.9	139.0	139.9	138.0
72.5°	130.1	128.1	126.1	125.2	122.2	121.2	120.2	119.2	116.3	117.3	116.3
75°	108.4	108.4	107.4	106.4	103.5	100.5	98.5	97.6	95.6	96.6	94.6
77.5°	89.7	87.7	85.7	85.7	82.8	80.8	78.8	78.8	78.8	77.9	76.9
80°	70.0	68.0	68.0	67.0	65.0	63.1	62.1	62.1	61.1	61.1	60.1
82.5°	53.2	51.2	50.3	50.3	48.3	47.3	46.3	45.3	45.3	45.3	44.3
85°	37.4	35.5	34.5	34.5	32.5	31.5	31.5	30.5	30.5	29.6	29.6
87.5°	22.7	21.7	20.7	20.7	18.7	17.7	17.7	17.7	16.8	16.8	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: P1213481

CATALOG NUMBER: 4SNLED-LD5-57HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3
2.5°	2319.8	2319.8	2312.9	2314.9	2311.9	2315.9	2310.9	2310.9	2316.9	2316.9	2320.8
5°	2237.0	2232.1	2231.1	2229.1	2219.3	2223.2	2218.3	2213.4	2220.3	2220.3	2229.1
7.5°	2123.7	2114.8	2118.8	2112.9	2106.9	2098.1	2101.0	2097.1	2102.0	2108.9	2117.8
10°	2065.6	2057.7	2062.6	2056.7	2059.6	2046.8	2047.8	2048.8	2053.7	2055.7	2063.6
12.5°	2028.1	2026.1	2024.2	2022.2	2024.2	2017.3	2013.3	2014.3	2016.3	2017.3	2023.2
15°	1949.3	1936.5	1940.4	1926.6	1927.6	1928.6	1920.7	1928.6	1927.6	1940.4	1952.2
17.5°	1885.2	1885.2	1878.3	1872.4	1868.5	1867.5	1861.6	1865.5	1861.6	1869.4	1872.4
20°	1840.9	1839.9	1838.9	1835.9	1826.1	1827.1	1830.0	1821.2	1820.2	1819.2	1825.1
22.5°	1820.2	1821.2	1817.2	1817.2	1808.3	1810.3	1811.3	1801.4	1802.4	1799.5	1802.4
25°	1798.5	1800.5	1795.5	1795.5	1793.6	1792.6	1787.7	1789.6	1783.7	1778.8	1783.7
27.5°	1772.9	1776.8	1772.9	1774.8	1770.9	1768.9	1766.0	1764.0	1758.1	1757.1	1760.1
30°	1749.2	1751.2	1750.2	1745.3	1744.3	1738.4	1741.3	1735.4	1729.5	1730.5	1732.5
32.5°	896.8	856.4	660.3	596.2	590.3	612.0	725.3	883.0	1144.1	1397.4	1579.7
35°	391.2	391.2	391.2	390.2	390.2	389.3	388.3	387.3	386.3	385.3	384.3
37.5°	393.2	393.2	393.2	393.2	392.2	391.2	391.2	389.3	388.3	387.3	386.3
40°	394.2	395.2	395.2	395.2	394.2	394.2	393.2	391.2	390.2	388.3	386.3
42.5°	393.2	394.2	394.2	393.2	393.2	392.2	392.2	391.2	390.2	389.3	388.3
45°	380.4	381.4	379.4	379.4	378.4	378.4	378.4	378.4	378.4	379.4	379.4
47.5°	357.7	357.7	356.7	355.8	355.8	354.8	355.8	354.8	356.7	357.7	359.7
50°	331.1	331.1	329.1	328.2	328.2	328.2	328.2	329.1	330.1	332.1	334.1
52.5°	303.5	303.5	302.5	301.6	300.6	300.6	303.5	302.5	303.5	304.5	307.5
55°	276.9	277.9	275.9	275.9	274.9	274.9	274.9	275.9	276.9	277.9	280.9
57.5°	254.3	254.3	252.3	252.3	252.3	251.3	254.3	252.3	253.3	254.3	256.2
60°	231.6	230.6	230.6	229.6	229.6	229.6	231.6	230.6	230.6	231.6	233.6
62.5°	210.9	210.9	209.9	209.9	208.9	208.9	210.9	209.9	209.9	210.9	211.9
65°	187.2	187.2	186.3	185.3	188.2	185.3	188.2	186.3	188.2	189.2	191.2
67.5°	160.6	160.6	160.6	159.6	159.6	161.6	162.6	160.6	161.6	163.6	164.6
70°	137.0	137.0	136.0	136.0	136.0	138.0	139.0	137.0	138.0	139.0	140.9
72.5°	116.3	114.3	114.3	113.3	115.3	115.3	116.3	115.3	116.3	116.3	118.3
75°	95.6	93.6	93.6	93.6	95.6	94.6	95.6	94.6	95.6	95.6	96.6
77.5°	76.9	75.9	74.9	74.9	76.9	76.9	76.9	75.9	76.9	77.9	78.8
80°	60.1	59.1	58.1	58.1	60.1	60.1	60.1	61.1	60.1	61.1	62.1
82.5°	44.3	43.4	42.4	44.3	44.3	44.3	44.3	45.3	44.3	45.3	46.3
85°	29.6	28.6	27.6	29.6	29.6	29.6	29.6	30.5	29.6	30.5	31.5
87.5°	15.8	14.8	14.8	15.8	15.8	15.8	16.8	16.8	16.8	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213481

CATALOG NUMBER: 4SNLED-LD5-57HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3
2.5°	2326.7	2329.7	2328.7	2322.8	2316.9	2310.0	2305.0	2306.0	2315.9	2318.8	2310.0
5°	2229.1	2247.9	2247.9	2260.7	2253.8	2247.9	2251.8	2273.5	2284.3	2301.1	2307.0
7.5°	2128.6	2137.5	2136.5	2149.3	2147.3	2147.3	2150.3	2178.9	2192.7	2206.5	2210.4
10°	2072.5	2081.3	2080.3	2081.3	2078.4	2071.5	2071.5	2084.3	2096.1	2103.0	2105.0
12.5°	2032.0	2037.0	2036.0	2036.0	2034.0	2028.1	2027.1	2038.0	2050.8	2059.6	2060.6
15°	1971.9	1985.7	1988.7	2001.5	1998.5	1990.7	1992.6	2001.5	2009.4	2017.3	2014.3
17.5°	1882.3	1889.2	1890.1	1895.1	1893.1	1893.1	1904.9	1937.4	1959.1	1977.8	1979.8
20°	1831.0	1835.9	1834.0	1844.8	1839.9	1838.9	1841.9	1855.6	1865.5	1874.4	1890.1
22.5°	1806.4	1810.3	1807.4	1808.3	1799.5	1791.6	1789.6	1800.5	1811.3	1823.1	1823.1
25°	1785.7	1788.6	1787.7	1785.7	1778.8	1767.9	1766.0	1767.9	1771.9	1772.9	1766.0
27.5°	1761.0	1763.0	1763.0	1764.0	1755.1	1745.3	1743.3	1741.3	1745.3	1744.3	1733.4
30°	1735.4	1732.5	1733.4	1734.4	1726.6	1717.7	1713.7	1712.8	1716.7	1715.7	1704.9
32.5°	1674.3	1697.0	1699.0	1700.9	1694.0	1686.1	1682.2	1679.2	1681.2	1680.2	1670.4
35°	383.3	390.2	478.0	1082.1	1469.3	1627.0	1643.8	1639.8	1640.8	1640.8	1632.9
37.5°	384.3	383.3	382.4	379.4	376.5	374.5	647.5	1380.6	1599.4	1600.4	1593.5
40°	384.3	383.3	382.4	380.4	376.5	373.5	368.6	364.6	373.5	821.9	1503.8
42.5°	386.3	384.3	382.4	380.4	376.5	372.5	368.6	363.6	366.6	364.6	359.7
45°	380.4	379.4	379.4	378.4	376.5	372.5	367.6	361.7	358.7	361.7	356.7
47.5°	361.7	362.7	365.6	366.6	366.6	367.6	364.6	360.7	355.8	358.7	352.8
50°	336.0	338.0	339.0	343.9	345.9	349.8	350.8	350.8	349.8	353.8	349.8
52.5°	308.5	310.4	315.4	317.3	319.3	325.2	327.2	330.1	332.1	338.0	342.0
55°	281.8	282.8	284.8	288.7	291.7	296.6	299.6	302.5	307.5	310.4	322.3
57.5°	257.2	258.2	262.1	263.1	265.1	269.0	272.0	275.9	279.9	281.8	295.6
60°	233.6	234.5	237.5	238.5	239.5	243.4	246.4	249.3	252.3	254.3	264.1
62.5°	212.9	212.9	215.8	215.8	216.8	219.8	221.7	223.7	226.7	227.6	232.6
65°	192.2	193.2	195.1	195.1	196.1	198.1	199.1	200.1	203.0	203.0	206.9
67.5°	166.5	167.5	170.5	172.5	173.4	177.4	178.4	179.4	181.3	182.3	184.3
70°	141.9	142.9	145.9	146.8	147.8	150.8	152.7	155.7	158.7	161.6	163.6
72.5°	119.2	120.2	123.2	123.2	126.1	127.1	129.1	130.1	133.0	135.0	138.0
75°	97.6	98.5	101.5	101.5	104.5	105.4	106.4	107.4	109.4	111.4	113.3
77.5°	79.8	79.8	83.8	85.7	87.7	87.7	88.7	88.7	88.7	89.7	91.6
80°	63.1	63.1	66.0	68.0	70.0	70.0	71.0	71.9	72.9	72.9	73.9
82.5°	47.3	47.3	50.3	51.2	53.2	53.2	53.2	54.2	55.2	54.2	56.2
85°	32.5	32.5	34.5	35.5	37.4	37.4	37.4	38.4	39.4	38.4	39.4
87.5°	18.7	19.7	20.7	21.7	22.7	23.7	23.7	23.7	24.6	24.6	25.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213481

CATALOG NUMBER: 4SNLED-LD5-57HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3
2.5°	2300.1	2288.3	2287.3	2273.5	2269.5	2270.5	2259.7	2255.8	2238.0	2234.1	2215.3
5°	2309.0	2314.9	2311.9	2310.9	2313.9	2311.9	2304.0	2300.1	2297.1	2289.3	2273.5
7.5°	2211.4	2215.3	2218.3	2231.1	2242.0	2260.7	2280.4	2293.2	2303.1	2305.0	2292.2
10°	2111.9	2130.6	2143.4	2163.1	2178.9	2189.7	2201.6	2212.4	2241.0	2269.5	2286.3
12.5°	2060.6	2065.6	2064.6	2075.4	2086.2	2114.8	2142.4	2158.2	2179.9	2192.7	2223.2
15°	2017.3	2018.3	2021.2	2029.1	2035.0	2044.9	2057.7	2081.3	2124.7	2144.4	2161.1
17.5°	1977.8	1977.8	1979.8	1986.7	1994.6	2003.5	2011.4	2021.2	2042.9	2075.4	2116.8
20°	1914.8	1942.4	1945.3	1944.3	1948.3	1965.0	1967.0	1984.7	1995.6	2008.4	2048.8
22.5°	1821.2	1837.9	1861.6	1898.0	1911.8	1919.7	1925.6	1933.5	1950.3	1965.0	1981.8
25°	1769.9	1780.8	1787.7	1798.5	1827.1	1873.4	1882.3	1891.1	1902.0	1912.8	1933.5
27.5°	1724.6	1723.6	1728.5	1738.4	1746.3	1770.9	1814.3	1848.8	1850.7	1866.5	1884.2
30°	1692.1	1686.1	1679.2	1677.3	1688.1	1700.9	1713.7	1767.9	1805.4	1813.3	1832.0
32.5°	1661.5	1651.7	1641.8	1633.9	1627.0	1637.9	1645.7	1669.4	1717.7	1763.0	1772.9
35°	1624.1	1614.2	1602.4	1593.5	1582.7	1581.7	1580.7	1603.4	1619.1	1673.3	1720.6
37.5°	1585.6	1574.8	1564.9	1555.1	1544.2	1536.4	1531.4	1537.3	1552.1	1575.8	1654.6
40°	1545.2	1532.4	1522.6	1514.7	1499.9	1494.0	1484.1	1480.2	1481.2	1501.9	1543.3
42.5°	923.4	1472.3	1477.2	1468.4	1455.5	1447.7	1436.8	1431.9	1422.0	1431.9	1455.5
45°	355.8	359.7	1077.1	1423.0	1407.3	1397.4	1387.5	1382.6	1371.8	1363.9	1385.6
47.5°	348.9	352.8	344.9	488.8	1343.2	1346.2	1334.3	1329.4	1318.6	1312.7	1306.7
50°	343.9	346.9	341.0	342.9	336.0	1230.9	1280.1	1274.2	1262.4	1255.5	1243.7
52.5°	339.0	339.0	335.1	330.1	328.2	329.1	1035.7	1218.0	1204.2	1197.4	1181.6
55°	323.2	325.2	329.1	321.3	319.3	318.3	315.4	986.5	1140.2	1132.3	1118.5
57.5°	299.6	303.5	314.4	312.4	312.4	304.5	302.5	302.5	915.5	1066.3	1052.5
60°	272.0	275.9	287.8	291.7	294.7	292.7	290.7	289.7	285.8	964.8	982.5
62.5°	243.4	247.4	251.3	264.1	268.0	273.0	278.9	275.9	272.0	272.0	908.6
65°	212.9	218.8	220.7	232.6	237.5	246.4	251.3	258.2	256.2	255.2	260.2
67.5°	186.3	193.2	194.1	199.1	207.9	211.9	217.8	230.6	236.5	238.5	240.5
70°	163.6	167.5	170.5	172.5	178.4	179.4	190.2	199.1	207.9	217.8	220.7
72.5°	140.9	143.9	149.8	147.8	149.8	153.7	159.6	165.6	174.4	188.2	197.1
75°	115.3	117.3	121.2	123.2	127.1	130.1	134.0	139.0	146.8	153.7	165.6
77.5°	92.6	93.6	96.6	97.6	101.5	104.5	111.4	114.3	119.2	124.2	131.1
80°	74.9	74.9	75.9	75.9	78.8	81.8	86.7	89.7	95.6	99.5	99.5
82.5°	57.2	57.2	60.1	60.1	62.1	62.1	65.0	65.0	68.0	70.0	71.9
85°	40.4	41.4	43.4	42.4	44.3	43.4	45.3	47.3	48.3	47.3	46.3
87.5°	26.6	26.6	28.6	27.6	28.6	28.6	30.5	30.5	31.5	31.5	30.5
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: P1213481

CATALOG NUMBER: 4SNLED-LD5-57HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3
2.5°	2208.4	2193.7	2184.8	2174.0	2171.0	2168.0	2172.0	2172.0	2166.1	2161.1	2152.3
5°	2259.7	2243.9	2227.2	2209.4	2192.7	2174.9	2168.0	2167.1	2156.2	2150.3	2147.3
7.5°	2286.3	2278.4	2259.7	2235.1	2209.4	2177.9	2164.1	2156.2	2145.4	2143.4	2143.4
10°	2289.3	2280.4	2270.5	2252.8	2223.2	2181.8	2155.2	2139.5	2129.6	2136.5	2149.3
12.5°	2260.7	2277.4	2268.6	2256.7	2233.1	2182.8	2144.4	2120.7	2117.8	2135.5	2169.0
15°	2187.8	2237.0	2261.7	2249.8	2231.1	2180.9	2126.7	2099.1	2099.1	2135.5	2178.9
17.5°	2132.6	2171.0	2231.1	2241.0	2219.3	2176.9	2109.9	2077.4	2086.2	2139.5	2185.8
20°	2087.2	2110.9	2169.0	2224.2	2203.5	2168.0	2085.3	2051.8	2069.5	2133.6	2195.6
22.5°	2016.3	2063.6	2099.1	2180.9	2187.8	2151.3	2060.6	2020.2	2055.7	2133.6	2190.7
25°	1947.3	2004.5	2041.9	2121.7	2164.1	2130.6	2038.0	1986.7	2040.9	2130.6	2186.8
27.5°	1899.0	1925.6	1993.6	2050.8	2128.6	2103.0	2007.4	1950.3	2022.2	2114.8	2164.1
30°	1847.8	1865.5	1932.5	1986.7	2081.3	2071.5	1975.9	1909.8	1998.5	2100.0	2105.0
32.5°	1791.6	1811.3	1845.8	1924.6	2015.3	2041.9	1940.4	1869.4	1972.9	2077.4	2036.0
35°	1734.4	1749.2	1776.8	1861.6	1938.4	1997.6	1897.0	1823.1	1955.2	2042.9	1970.0
37.5°	1677.3	1693.0	1716.7	1787.7	1857.6	1956.2	1859.6	1776.8	1922.7	1981.8	1901.0
40°	1623.1	1631.9	1656.6	1700.9	1790.6	1913.8	1817.2	1728.5	1889.2	1903.9	1807.4
42.5°	1523.5	1567.9	1590.6	1626.0	1714.7	1855.6	1767.9	1677.3	1851.7	1826.1	1713.7
45°	1416.1	1512.7	1522.6	1558.0	1647.7	1793.6	1721.6	1627.0	1816.2	1759.1	1625.0
47.5°	1328.4	1398.4	1455.5	1485.1	1567.9	1720.6	1678.3	1584.6	1763.0	1674.3	1538.3
50°	1250.6	1288.0	1391.5	1413.2	1472.3	1632.9	1627.0	1535.4	1689.1	1567.9	1453.6
52.5°	1174.7	1201.3	1294.9	1341.2	1389.5	1538.3	1565.9	1487.1	1608.3	1461.5	1367.8
55°	1108.7	1117.5	1168.8	1266.3	1309.7	1442.7	1498.9	1430.9	1505.8	1360.0	1285.1
57.5°	1040.7	1032.8	1070.2	1195.4	1226.9	1345.2	1428.0	1373.8	1423.0	1256.5	1199.3
60°	969.7	958.9	974.6	1057.4	1139.2	1248.6	1344.2	1310.7	1322.5	1154.0	1103.7
62.5°	895.8	885.0	880.0	932.3	1053.5	1149.1	1259.4	1240.7	1199.3	1060.4	985.5
65°	818.9	808.1	800.2	820.9	958.9	1020.0	1164.8	1159.9	1064.3	961.8	829.8
67.5°	249.3	735.2	718.4	717.4	808.1	902.7	1062.3	1054.5	928.3	856.4	714.5
70°	224.7	596.2	633.7	624.8	664.2	783.5	945.1	939.2	796.3	686.9	631.7
72.5°	206.0	210.9	559.7	549.9	558.8	666.2	822.9	807.1	675.1	542.0	546.0
75°	176.4	185.3	193.2	464.2	452.3	551.9	689.8	665.2	556.8	447.4	456.3
77.5°	143.9	154.7	160.6	338.0	365.6	393.2	550.9	518.4	383.3	357.7	170.5
80°	107.4	116.3	126.1	135.0	277.9	274.9	409.0	376.5	267.1	222.7	133.0
82.5°	78.8	81.8	87.7	97.6	110.4	184.3	263.1	231.6	185.3	101.5	91.6
85°	49.3	53.2	56.2	59.1	67.0	110.4	130.1	103.5	77.9	62.1	58.1
87.5°	31.5	31.5	30.5	31.5	32.5	39.4	44.3	42.4	33.5	31.5	31.5
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: P1213481

CATALOG NUMBER: 4SNLED-LD5-57HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3
2.5°	2142.4	2128.6	2128.6	2124.7	2127.6	2127.6	2126.7	2127.6	2134.5	2138.5	2145.4
5°	2141.4	2137.5	2146.4	2157.2	2170.0	2185.8	2189.7	2203.5	2216.3	2233.1	2250.8
7.5°	2154.2	2168.0	2184.8	2202.5	2228.2	2246.9	2263.6	2280.4	2292.2	2308.0	2317.8
10°	2173.0	2200.6	2229.1	2251.8	2279.4	2295.2	2306.0	2308.0	2291.2	2264.6	2242.9
12.5°	2199.6	2232.1	2258.7	2280.4	2293.2	2287.3	2255.8	2223.2	2204.5	2176.9	2138.5
15°	2222.2	2251.8	2279.4	2270.5	2236.0	2203.5	2178.9	2140.5	2103.0	2077.4	2060.6
17.5°	2232.1	2260.7	2250.8	2204.5	2172.0	2134.5	2084.3	2054.7	2030.1	2010.4	2000.5
20°	2238.0	2233.1	2179.9	2146.4	2083.3	2048.8	2016.3	1988.7	1970.0	1960.1	1958.1
22.5°	2222.2	2162.1	2116.8	2056.7	2010.4	1981.8	1956.2	1933.5	1920.7	1912.8	1907.9
25°	2170.0	2100.0	2033.0	1985.7	1946.3	1921.7	1902.0	1883.2	1867.5	1863.5	1853.7
27.5°	2097.1	2039.9	1951.2	1914.8	1880.3	1868.5	1846.8	1828.1	1814.3	1802.4	1770.9
30°	2037.0	1946.3	1882.3	1848.8	1828.1	1814.3	1789.6	1769.9	1746.3	1702.9	1685.2
32.5°	1963.1	1873.4	1812.3	1793.6	1767.9	1756.1	1728.5	1685.2	1648.7	1631.0	1630.0
35°	1867.5	1793.6	1749.2	1732.5	1711.8	1692.1	1634.9	1595.5	1577.7	1579.7	1594.5
37.5°	1787.7	1721.6	1693.0	1669.4	1645.7	1595.5	1547.2	1528.5	1533.4	1543.3	1550.2
40°	1706.8	1656.6	1624.1	1605.3	1552.1	1502.8	1477.2	1484.1	1493.0	1499.9	1508.8
42.5°	1628.0	1592.5	1560.0	1523.5	1450.6	1424.0	1429.9	1438.8	1446.7	1456.5	1465.4
45°	1553.1	1521.6	1484.1	1401.3	1364.9	1371.8	1380.6	1387.5	1399.4	1406.3	1415.1
47.5°	1482.2	1448.6	1382.6	1309.7	1305.8	1319.6	1327.4	1336.3	1345.2	1327.4	732.2
50°	1402.3	1367.8	1267.3	1239.7	1248.6	1261.4	1271.3	1280.1	1140.2	453.3	348.9
52.5°	1323.5	1235.8	1171.7	1179.6	1188.5	1203.3	1210.2	898.8	357.7	341.0	342.0
55°	1235.8	1123.4	1104.7	1114.6	1122.5	1137.2	753.9	330.1	328.2	327.2	335.1
57.5°	1097.8	1029.8	1037.7	1047.6	1055.4	745.0	321.3	319.3	320.3	321.3	322.3
60°	974.6	959.9	968.7	977.6	691.8	310.4	304.5	305.5	309.4	306.5	298.6
62.5°	877.1	888.9	897.8	786.4	294.7	291.7	294.7	291.7	284.8	279.9	270.0
65°	802.2	814.0	820.9	276.9	275.9	279.9	276.9	267.1	256.2	242.4	239.5
67.5°	723.3	735.2	263.1	256.2	260.2	255.2	243.4	231.6	223.7	211.9	206.9
70°	641.5	274.9	238.5	237.5	230.6	222.7	209.9	198.1	188.2	183.3	178.4
72.5°	463.2	217.8	214.8	206.9	195.1	184.3	173.4	166.5	161.6	158.7	155.7
75°	193.2	189.2	180.3	166.5	154.7	149.8	141.9	137.0	135.0	129.1	127.1
77.5°	161.6	153.7	140.9	131.1	124.2	121.2	115.3	109.4	106.4	105.4	101.5
80°	124.2	113.3	107.4	102.5	100.5	93.6	86.7	83.8	81.8	80.8	77.9
82.5°	84.8	80.8	76.9	70.0	70.0	67.0	64.1	62.1	60.1	60.1	58.1
85°	55.2	52.2	51.2	48.3	48.3	46.3	45.3	44.3	43.4	42.4	41.4
87.5°	31.5	31.5	32.5	31.5	31.5	30.5	29.6	28.6	27.6	27.6	25.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213481

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CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3
2.5°	2154.2	2164.1	2166.1	2199.6	2218.3	2217.3	2211.4	2229.1	2218.3	2212.4	2218.3
5°	2268.6	2280.4	2290.2	2326.7	2339.5	2345.4	2344.4	2354.3	2346.4	2339.5	2339.5
7.5°	2324.7	2328.7	2332.6	2323.7	2317.8	2308.0	2293.2	2271.5	2260.7	2248.9	2234.1
10°	2232.1	2219.3	2224.2	2206.5	2191.7	2180.9	2167.1	2149.3	2134.5	2123.7	2106.9
12.5°	2118.8	2117.8	2119.8	2122.7	2107.9	2099.1	2088.2	2075.4	2064.6	2052.7	2038.9
15°	2049.8	2050.8	2058.7	2055.7	2050.8	2045.8	2034.0	2030.1	2020.2	2007.4	1999.5
17.5°	2000.5	2005.4	2013.3	2009.4	2001.5	1996.6	1987.7	1978.8	1970.0	1960.1	1948.3
20°	1957.2	1962.1	1967.0	1962.1	1947.3	1940.4	1928.6	1901.0	1881.3	1861.6	1843.8
22.5°	1909.8	1912.8	1908.9	1893.1	1855.6	1837.9	1824.1	1816.2	1799.5	1788.6	1777.8
25°	1850.7	1834.0	1808.3	1790.6	1775.8	1767.9	1762.0	1761.0	1759.1	1757.1	1752.2
27.5°	1754.1	1748.2	1734.4	1727.5	1728.5	1731.5	1732.5	1735.4	1732.5	1728.5	1724.6
30°	1682.2	1685.2	1686.1	1688.1	1693.0	1696.0	1697.0	1700.9	1699.0	1696.0	1694.0
32.5°	1636.9	1643.8	1647.7	1653.6	1656.6	1661.5	1661.5	1667.4	1661.5	1660.5	1658.6
35°	1599.4	1605.3	1607.3	1616.2	1619.1	1624.1	1624.1	1629.0	1624.1	1573.8	1242.7
37.5°	1562.0	1567.9	1571.8	1579.7	1580.7	1583.7	1461.5	1069.2	689.8	534.1	408.0
40°	1517.6	1524.5	1528.5	1531.4	1076.1	682.9	470.1	382.4	382.4	385.3	388.3
42.5°	1470.3	1475.3	1027.9	598.2	372.5	371.5	374.5	377.4	380.4	384.3	388.3
45°	1156.0	583.4	370.5	361.7	364.6	368.6	372.5	376.5	381.4	385.3	387.3
47.5°	379.4	355.8	360.7	356.7	361.7	366.6	370.5	374.5	375.5	376.5	375.5
50°	350.8	350.8	353.8	353.8	357.7	359.7	359.7	359.7	355.8	354.8	351.8
52.5°	339.0	346.9	342.9	344.9	342.9	340.0	337.0	334.1	328.2	326.2	322.3
55°	333.1	336.0	326.2	323.2	319.3	311.4	307.5	303.5	298.6	296.6	291.7
57.5°	319.3	312.4	301.6	296.6	289.7	281.8	277.9	274.9	270.0	268.0	265.1
60°	293.7	279.9	273.0	267.1	259.2	252.3	249.3	247.4	243.4	242.4	239.5
62.5°	262.1	250.3	244.4	236.5	230.6	226.7	223.7	222.7	218.8	218.8	216.8
65°	227.6	221.7	216.8	208.9	206.0	202.0	201.0	200.1	198.1	197.1	195.1
67.5°	200.1	196.1	189.2	185.3	183.3	180.3	178.4	176.4	172.5	170.5	167.5
70°	175.4	172.5	165.6	162.6	158.7	153.7	150.8	148.8	145.9	143.9	140.9
72.5°	151.8	142.9	138.0	135.0	132.1	127.1	126.1	124.2	121.2	120.2	117.3
75°	122.2	115.3	112.3	110.4	107.4	104.5	104.5	104.5	101.5	100.5	99.5
77.5°	97.6	93.6	91.6	89.7	88.7	86.7	83.8	82.8	79.8	79.8	78.8
80°	74.9	72.9	71.0	70.0	69.0	67.0	65.0	64.1	61.1	61.1	60.1
82.5°	55.2	54.2	53.2	52.2	51.2	50.3	47.3	46.3	44.3	44.3	43.4
85°	39.4	38.4	36.5	35.5	35.5	34.5	31.5	30.5	28.6	28.6	28.6
87.5°	24.6	23.7	22.7	21.7	20.7	19.7	17.7	16.8	16.8	14.8	13.8
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: P1213481

CATALOG NUMBER: 4SNLED-LD5-57HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3
2.5°	2206.5	2223.2	2221.3	2233.1	2236.0	2242.0	2243.9	2244.9	2230.1	2242.0	2242.9
5°	2336.6	2339.5	2341.5	2346.4	2351.3	2352.3	2347.4	2341.5	2343.5	2339.5	2329.7
7.5°	2232.1	2217.3	2214.4	2210.4	2208.4	2206.5	2197.6	2205.5	2196.6	2192.7	2178.9
10°	2104.0	2090.2	2089.2	2089.2	2092.2	2091.2	2089.2	2085.3	2093.1	2088.2	2085.3
12.5°	2037.0	2032.0	2035.0	2033.0	2040.9	2042.9	2040.9	2040.9	2038.9	2035.0	2037.0
15°	1996.6	1992.6	1995.6	1992.6	1998.5	1999.5	1994.6	1997.6	1992.6	1987.7	1985.7
17.5°	1943.4	1934.5	1927.6	1917.7	1918.7	1916.7	1910.8	1910.8	1905.9	1893.1	1894.1
20°	1840.9	1832.0	1828.1	1828.1	1833.0	1835.0	1834.0	1835.9	1831.0	1829.0	1821.2
22.5°	1776.8	1775.8	1777.8	1782.7	1790.6	1801.4	1802.4	1802.4	1802.4	1801.4	1791.6
25°	1754.1	1754.1	1756.1	1763.0	1768.9	1776.8	1778.8	1780.8	1778.8	1778.8	1769.9
27.5°	1728.5	1726.6	1730.5	1737.4	1744.3	1750.2	1755.1	1756.1	1753.2	1753.2	1756.1
30°	1697.0	1696.0	1700.9	1707.8	1713.7	1719.7	1724.6	1728.5	1724.6	1724.6	1721.6
32.5°	1664.5	1664.5	1666.4	1625.0	1506.8	1357.0	1360.0	1273.2	1213.1	1137.2	1237.8
35°	1038.7	755.9	649.4	549.9	479.9	434.6	433.6	418.8	411.9	407.0	406.0
37.5°	392.2	394.2	398.1	400.1	403.1	405.0	406.0	406.0	406.0	406.0	405.0
40°	391.2	395.2	398.1	401.1	404.0	406.0	406.0	407.0	408.0	408.0	408.0
42.5°	392.2	396.2	400.1	403.1	405.0	406.0	407.0	408.0	408.0	408.0	408.0
45°	391.2	393.2	393.2	394.2	394.2	394.2	395.2	395.2	394.2	393.2	395.2
47.5°	376.5	376.5	373.5	372.5	371.5	369.6	370.5	369.6	368.6	367.6	369.6
50°	350.8	346.9	344.9	342.9	342.0	340.0	341.0	340.0	339.0	337.0	340.0
52.5°	320.3	319.3	315.4	313.4	312.4	313.4	311.4	310.4	309.4	308.5	309.4
55°	290.7	286.8	285.8	283.8	282.8	283.8	282.8	281.8	280.9	279.9	280.9
57.5°	264.1	261.2	260.2	258.2	258.2	258.2	258.2	257.2	256.2	255.2	256.2
60°	238.5	236.5	235.5	235.5	234.5	234.5	234.5	233.6	232.6	232.6	233.6
62.5°	216.8	216.8	213.8	212.9	212.9	213.8	212.9	211.9	210.9	209.9	211.9
65°	194.1	190.2	189.2	187.2	185.3	186.3	185.3	184.3	183.3	182.3	184.3
67.5°	166.5	165.6	161.6	159.6	158.7	159.6	158.7	157.7	156.7	155.7	157.7
70°	139.9	139.9	136.0	135.0	134.0	134.0	133.0	133.0	132.1	131.1	133.0
72.5°	116.3	116.3	115.3	113.3	112.3	111.4	110.4	109.4	109.4	110.4	110.4
75°	96.6	94.6	90.7	91.6	90.7	89.7	89.7	88.7	87.7	89.7	88.7
77.5°	75.9	74.9	71.9	72.9	71.9	71.0	71.0	70.0	69.0	70.0	70.0
80°	57.2	57.2	56.2	55.2	55.2	54.2	53.2	53.2	52.2	53.2	53.2
82.5°	41.4	41.4	40.4	39.4	38.4	38.4	37.4	37.4	37.4	37.4	37.4
85°	26.6	25.6	25.6	23.7	23.7	23.7	22.7	22.7	22.7	22.7	22.7
87.5°	12.8	12.8	11.8	11.8	10.8	9.9	9.9	8.9	8.9	9.9	9.9
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: P1213481

CATALOG NUMBER: 4SNLED-LD5-57HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3
2.5°	2225.2	2238.0	2227.2	2232.1	2233.1	2249.8	2248.9	2252.8	2245.9	2238.0	2227.2
5°	2338.5	2332.6	2324.7	2343.5	2333.6	2345.4	2349.4	2357.3	2357.3	2356.3	2347.4
7.5°	2193.7	2180.9	2190.7	2197.6	2200.6	2192.7	2208.4	2226.2	2241.0	2249.8	2250.8
10°	2080.3	2084.3	2083.3	2086.2	2093.1	2092.2	2102.0	2111.9	2115.8	2121.7	2123.7
12.5°	2027.1	2026.1	2028.1	2035.0	2038.9	2038.0	2047.8	2053.7	2055.7	2056.7	2055.7
15°	1984.7	1977.8	1982.8	1983.8	1986.7	1986.7	1998.5	2007.4	2011.4	2013.3	2011.4
17.5°	1904.9	1888.2	1903.9	1903.9	1914.8	1912.8	1931.5	1946.3	1954.2	1960.1	1960.1
20°	1826.1	1818.2	1824.1	1822.1	1830.0	1829.0	1840.9	1850.7	1857.6	1862.5	1868.5
22.5°	1794.5	1796.5	1787.7	1788.6	1788.6	1787.7	1793.6	1798.5	1800.5	1803.4	1801.4
25°	1773.9	1775.8	1772.9	1767.9	1766.0	1767.9	1770.9	1776.8	1777.8	1775.8	1768.9
27.5°	1753.2	1747.2	1752.2	1743.3	1741.3	1745.3	1749.2	1750.2	1751.2	1751.2	1745.3
30°	1721.6	1716.7	1721.6	1717.7	1713.7	1717.7	1720.6	1720.6	1722.6	1723.6	1716.7
32.5°	1203.3	1213.1	1372.8	1469.3	1605.3	1674.3	1687.1	1687.1	1689.1	1689.1	1683.2
35°	410.0	410.9	444.4	481.9	561.7	660.3	789.4	856.4	1083.0	1354.0	1616.2
37.5°	405.0	404.0	403.1	402.1	401.1	400.1	398.1	397.1	403.1	478.0	648.4
40°	407.0	406.0	404.0	403.1	402.1	400.1	399.1	397.1	395.2	393.2	391.2
42.5°	407.0	406.0	405.0	404.0	403.1	402.1	400.1	398.1	396.2	393.2	390.2
45°	393.2	393.2	394.2	394.2	395.2	395.2	395.2	394.2	394.2	393.2	389.3
47.5°	367.6	367.6	370.5	370.5	372.5	374.5	374.5	376.5	379.4	381.4	382.4
50°	338.0	338.0	341.0	342.0	343.9	346.9	349.8	350.8	353.8	357.7	361.7
52.5°	308.5	308.5	311.4	311.4	313.4	316.3	319.3	320.3	324.2	328.2	333.1
55°	280.9	280.9	282.8	283.8	284.8	286.8	289.7	289.7	293.7	296.6	301.6
57.5°	256.2	258.2	258.2	258.2	259.2	261.2	263.1	263.1	266.1	269.0	273.0
60°	232.6	234.5	234.5	234.5	235.5	236.5	238.5	238.5	240.5	242.4	246.4
62.5°	210.9	212.9	212.9	213.8	213.8	214.8	216.8	215.8	217.8	218.8	221.7
65°	183.3	185.3	186.3	187.2	188.2	190.2	193.2	192.2	195.1	197.1	200.1
67.5°	156.7	158.7	158.7	159.6	160.6	162.6	164.6	164.6	167.5	169.5	173.4
70°	132.1	134.0	134.0	135.0	136.0	138.0	139.9	139.0	141.9	143.9	146.8
72.5°	109.4	111.4	111.4	112.3	112.3	114.3	116.3	118.3	118.3	120.2	122.2
75°	88.7	89.7	90.7	90.7	91.6	92.6	94.6	96.6	97.6	98.5	100.5
77.5°	70.0	71.0	71.9	71.9	72.9	73.9	74.9	78.8	80.8	81.8	81.8
80°	53.2	54.2	54.2	54.2	55.2	56.2	58.1	58.1	62.1	62.1	63.1
82.5°	37.4	38.4	38.4	38.4	39.4	41.4	42.4	43.4	45.3	46.3	46.3
85°	22.7	23.7	23.7	23.7	24.6	25.6	27.6	28.6	29.6	29.6	30.5
87.5°	8.9	9.9	10.8	10.8	11.8	12.8	13.8	14.8	15.8	15.8	16.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3
2.5°	2215.3	2222.2	2215.3	2219.3	2224.2	2215.3	2194.7	2186.8	2183.8	2172.0	2164.1
5°	2338.5	2338.5	2335.6	2343.5	2342.5	2328.7	2307.0	2297.1	2287.3	2274.5	2264.6
7.5°	2250.8	2258.7	2263.6	2294.2	2313.9	2315.9	2329.7	2332.6	2336.6	2332.6	2326.7
10°	2124.7	2121.7	2135.5	2164.1	2180.9	2189.7	2216.3	2229.1	2240.0	2261.7	2284.3
12.5°	2053.7	2057.7	2063.6	2084.3	2100.0	2096.1	2106.9	2115.8	2128.6	2150.3	2182.8
15°	2006.4	2010.4	2016.3	2032.0	2041.9	2037.0	2042.9	2048.8	2057.7	2068.5	2088.2
17.5°	1955.2	1962.1	1969.0	1985.7	1994.6	1993.6	1998.5	2000.5	2003.5	2010.4	2024.2
20°	1875.4	1897.0	1910.8	1933.5	1946.3	1944.3	1953.2	1956.2	1960.1	1967.0	1972.9
22.5°	1802.4	1808.3	1815.2	1839.9	1861.6	1888.2	1894.1	1902.0	1911.8	1918.7	1924.6
25°	1761.0	1757.1	1760.1	1776.8	1788.6	1790.6	1799.5	1825.1	1851.7	1863.5	1877.3
27.5°	1736.4	1732.5	1731.5	1739.4	1741.3	1736.4	1734.4	1742.3	1762.0	1781.7	1823.1
30°	1709.8	1704.9	1700.9	1707.8	1710.8	1703.9	1691.1	1684.2	1696.0	1700.9	1717.7
32.5°	1678.3	1673.3	1671.4	1675.3	1677.3	1671.4	1657.6	1649.7	1647.7	1643.8	1647.7
35°	1642.8	1637.9	1634.9	1635.9	1639.8	1634.9	1623.1	1613.2	1608.3	1597.5	1589.6
37.5°	846.5	1199.3	1557.0	1594.5	1598.4	1597.5	1585.6	1574.8	1569.9	1557.0	1553.1
40°	387.3	432.6	649.4	848.5	1224.0	1555.1	1544.2	1533.4	1524.5	1520.6	1505.8
42.5°	386.3	387.3	388.3	383.3	475.0	809.1	1194.4	1491.0	1485.1	1475.3	1464.4
45°	386.3	381.4	385.3	379.4	381.4	380.4	474.0	764.7	1360.9	1422.0	1417.1
47.5°	382.4	379.4	383.3	378.4	372.5	375.5	371.5	376.5	587.3	996.3	1364.9
50°	364.6	366.6	373.5	372.5	367.6	371.5	364.6	370.5	365.6	401.1	772.6
52.5°	338.0	342.0	348.9	354.8	356.7	361.7	359.7	361.7	357.7	358.7	359.7
55°	306.5	311.4	317.3	326.2	330.1	338.0	343.9	346.9	351.8	350.8	342.9
57.5°	276.9	281.8	286.8	295.6	304.5	308.5	319.3	325.2	338.0	335.1	333.1
60°	249.3	253.3	258.2	260.2	271.0	277.9	287.8	293.7	310.4	314.4	320.3
62.5°	224.7	226.7	230.6	233.6	240.5	247.4	252.3	262.1	271.0	283.8	292.7
65°	202.0	204.0	206.9	208.9	209.9	219.8	222.7	233.6	236.5	250.3	258.2
67.5°	176.4	180.3	184.3	186.3	188.2	194.1	196.1	201.0	207.9	213.8	223.7
70°	149.8	152.7	156.7	159.6	163.6	167.5	173.4	176.4	181.3	185.3	193.2
72.5°	125.2	128.1	130.1	133.0	136.0	139.0	143.9	150.8	154.7	161.6	163.6
75°	101.5	104.5	106.4	108.4	111.4	113.3	115.3	122.2	126.1	132.1	138.0
77.5°	83.8	83.8	85.7	91.6	90.7	90.7	92.6	96.6	99.5	103.5	109.4
80°	65.0	66.0	67.0	71.9	72.9	73.9	72.9	75.9	78.8	79.8	83.8
82.5°	48.3	49.3	49.3	52.2	55.2	55.2	55.2	56.2	59.1	60.1	62.1
85°	32.5	33.5	34.5	35.5	37.4	38.4	39.4	39.4	41.4	42.4	43.4
87.5°	17.7	19.7	20.7	21.7	22.7	23.7	24.6	25.6	26.6	27.6	28.6
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°	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3	2150.3
2.5°	2161.1	2156.2	2153.3	2145.4	2143.4	2130.6	2132.6	2130.6	2130.6	2133.6	2143.4
5°	2253.8	2230.1	2224.2	2207.5	2193.7	2170.0	2155.2	2147.3	2135.5	2130.6	2137.5
7.5°	2316.9	2299.1	2284.3	2269.5	2249.8	2222.2	2201.6	2177.9	2158.2	2139.5	2134.5
10°	2306.0	2325.7	2325.7	2316.9	2298.1	2270.5	2245.9	2216.3	2181.8	2152.3	2134.5
12.5°	2214.4	2248.9	2276.4	2297.1	2315.9	2297.1	2272.5	2248.9	2210.4	2167.1	2134.5
15°	2113.8	2149.3	2183.8	2227.2	2272.5	2291.2	2290.2	2262.6	2228.2	2182.8	2137.5
17.5°	2042.9	2067.5	2086.2	2133.6	2188.7	2237.0	2269.5	2271.5	2238.0	2197.6	2138.5
20°	1989.7	2007.4	2023.2	2049.8	2098.1	2157.2	2217.3	2250.8	2244.9	2200.6	2141.4
22.5°	1941.4	1954.2	1967.0	1986.7	2025.2	2063.6	2133.6	2202.5	2232.1	2195.6	2138.5
25°	1893.1	1906.9	1916.7	1930.5	1961.1	1992.6	2041.9	2127.6	2193.7	2191.7	2132.6
27.5°	1835.9	1854.7	1866.5	1885.2	1905.9	1929.6	1963.1	2043.9	2138.5	2172.0	2116.8
30°	1767.0	1794.5	1812.3	1833.0	1850.7	1871.4	1898.0	1947.3	2064.6	2133.6	2100.0
32.5°	1667.4	1716.7	1756.1	1775.8	1795.5	1813.3	1836.9	1878.3	1973.9	2081.3	2081.3
35°	1596.5	1619.1	1654.6	1711.8	1736.4	1754.1	1775.8	1808.3	1869.4	2019.2	2050.8
37.5°	1541.3	1550.2	1567.9	1624.1	1670.4	1699.0	1720.6	1741.3	1801.4	1934.5	2011.4
40°	1499.9	1496.9	1495.0	1521.6	1587.6	1632.9	1657.6	1678.3	1724.6	1833.0	1959.1
42.5°	1451.6	1448.6	1438.8	1445.7	1478.2	1554.1	1591.5	1614.2	1652.6	1726.6	1902.0
45°	1401.3	1396.4	1392.5	1385.6	1397.4	1439.8	1516.6	1550.2	1571.8	1637.9	1830.0
47.5°	1350.1	1343.2	1338.3	1332.4	1325.5	1345.2	1418.1	1478.2	1515.7	1557.0	1743.3
50°	1277.2	1286.0	1280.1	1273.2	1267.3	1263.4	1293.9	1392.5	1438.8	1472.3	1637.9
52.5°	602.1	1170.7	1220.0	1213.1	1205.2	1198.3	1205.2	1280.1	1363.9	1390.5	1510.7
55°	342.9	521.3	1085.0	1147.1	1140.2	1130.3	1124.4	1150.0	1275.2	1310.7	1394.4
57.5°	330.1	331.1	478.9	1033.8	1072.2	1063.3	1056.4	1062.3	1168.8	1228.9	1292.9
60°	319.3	319.3	319.3	457.3	988.4	991.4	982.5	972.7	1019.0	1137.2	1190.5
62.5°	295.6	301.6	304.5	304.5	451.3	915.5	906.6	903.7	905.7	1026.9	1088.0
65°	265.1	278.9	284.8	288.7	288.7	474.0	828.8	823.9	817.0	863.3	984.5
67.5°	231.6	245.4	258.2	266.1	267.1	275.9	494.7	742.1	732.2	733.2	874.1
70°	197.1	208.9	222.7	234.5	245.4	250.3	258.2	615.9	648.4	634.6	749.0
72.5°	170.5	175.4	185.3	197.1	209.9	221.7	228.6	245.4	562.7	547.9	569.6
75°	141.9	145.9	152.7	160.6	170.5	184.3	196.1	207.9	298.6	459.2	456.3
77.5°	110.4	117.3	125.2	130.1	135.0	144.9	160.6	172.5	184.3	310.4	365.6
80°	84.8	89.7	93.6	98.5	104.5	111.4	117.3	131.1	144.9	155.7	279.9
82.5°	63.1	66.0	69.0	71.0	72.9	76.9	87.7	92.6	101.5	111.4	132.1
85°	44.3	46.3	48.3	49.3	50.3	51.2	55.2	56.2	65.0	67.0	79.8
87.5°	28.6	29.6	31.5	32.5	32.5	33.5	34.5	34.5	34.5	32.5	39.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	2150.3	2150.3
2.5°	2151.3	2167.1
5°	2148.3	2169.0
7.5°	2140.5	2160.2
10°	2128.6	2152.3
12.5°	2115.8	2138.5
15°	2105.0	2121.7
17.5°	2093.1	2103.0
20°	2077.4	2085.3
22.5°	2061.6	2057.7
25°	2043.9	2035.0
27.5°	2021.2	2004.5
30°	2000.5	1970.9
32.5°	1980.8	1932.5
35°	1954.2	1893.1
37.5°	1926.6	1852.7
40°	1894.1	1806.4
42.5°	1859.6	1760.1
45°	1816.2	1715.7
47.5°	1777.8	1662.5
50°	1724.6	1605.3
52.5°	1659.5	1552.1
55°	1582.7	1487.1
57.5°	1499.9	1419.1
60°	1411.2	1341.2
62.5°	1303.8	1260.4
65°	1177.6	1167.8
67.5°	1013.1	1065.3
70°	830.8	948.0
72.5°	694.8	823.9
75°	569.6	684.9
77.5°	451.3	537.1
80°	281.8	393.2
82.5°	189.2	258.2
85°	114.3	123.2
87.5°	44.3	45.3
90°	0.0	0.0

(END OF REPORT)