

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: P1213424

Luminaire Tested: 4SNLED-LD5-43SL-RW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213424
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-LD5-43SL-RW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

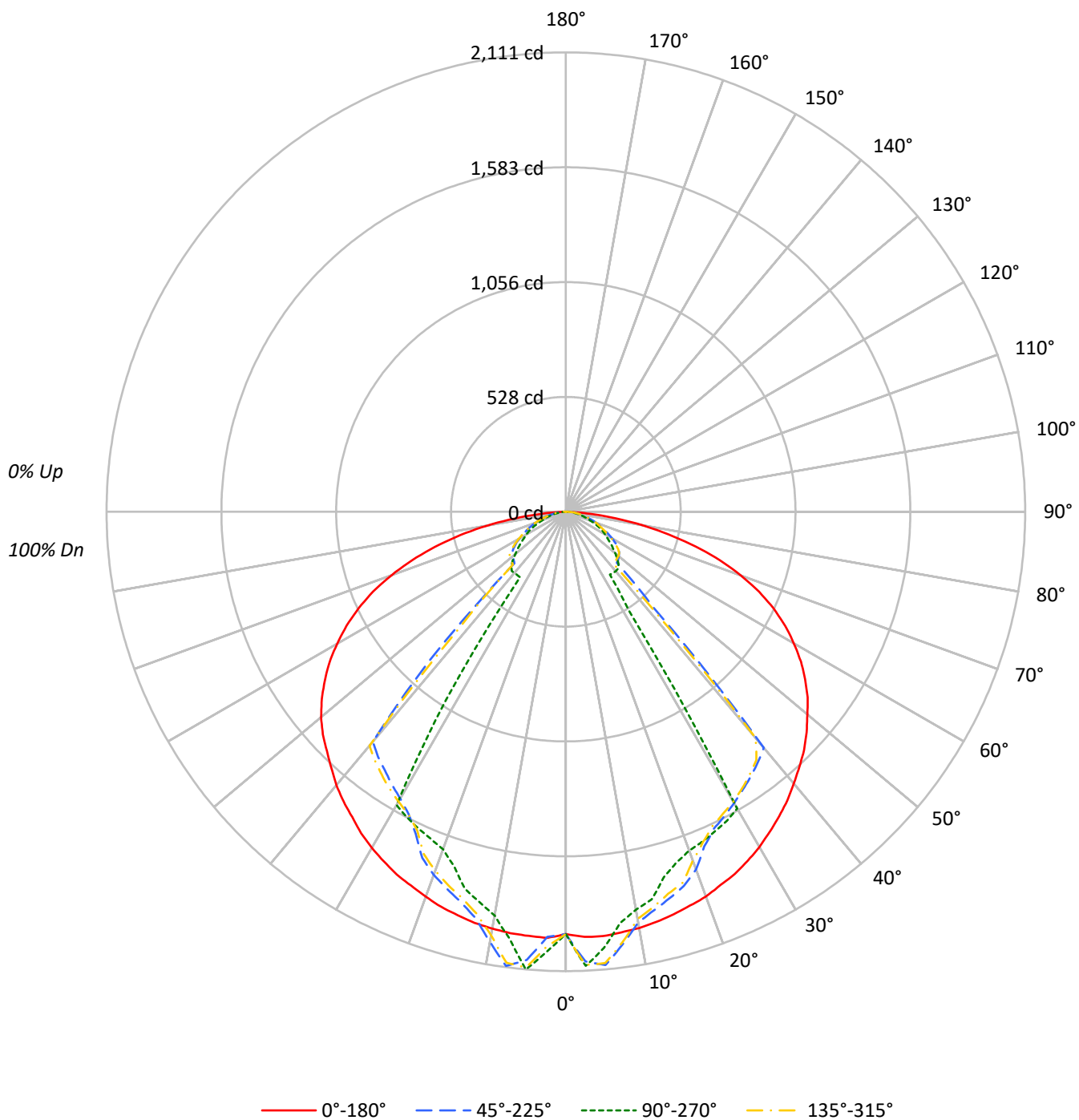
Lumens per Lamp: N/A
Luminaire Lumens: 3886.0 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	102	99	108	104	101	98	100	97	94		96	94	92		92	91	89	87
2	102	94	88	83	99	93	87	82	89	85	81		86	82	79		83	80	77	75
3	94	84	77	72	91	83	76	71	80	74	70		77	73	69		75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61		70	65	60		68	63	59	57
5	81	69	61	55	79	68	60	55	66	59	54		64	58	53		62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48		59	53	48		57	52	47	46
7	70	58	50	44	68	57	49	44	55	48	43		54	48	43		53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39		50	44	39		49	43	39	37
9	62	49	41	36	60	48	41	36	47	41	36		46	40	36		45	40	36	34
10	58	46	38	33	57	45	38	33	44	38	33		43	37	33		42	37	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15682	15682	15682	15682
5°	15836	15800	15828	16582
10°	15851	14285	15873	14504
15°	15886	13217	15923	13636
20°	16002	12536	16002	12488
25°	16140	12296	16164	12181
30°	16303	12079	16344	11936
35°	16493	2751	16527	2869
40°	16758	2861	16858	2954
45°	17159	2845	17218	2949
50°	17560	2573	17796	2642
55°	18099	2284	18244	2317
60°	18558	2029	18599	2056
65°	18886	1771	18838	1743
70°	18617	1427	18558	1376
75°	17283	1099	17406	1052
80°	14029	781	14591	714
85°	7597	468	8020	359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 19016 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.9	4.9
10°-20°	525.0	13.5
20°-30°	777.6	20.0
30°-40°	783.5	20.2
40°-50°	612.0	15.7
50°-60°	472.7	12.2
60°-70°	317.4	8.2
70°-80°	161.9	4.2
80°-90°	45.0	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°	1493.5	38.4
0°-40°	2276.9	58.6
0°-60°	3361.7	86.5
0°-90°	3886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3886.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1941	1941	1941	1941	1941	
5°	1958	2012	1957	2111	1958	186
15°	1915	1739	1919	1794	1915	542
25°	1836	1620	1839	1605	1836	847
35°	1708	352	1712	367	1708	1071
45°	1548	342	1554	355	1548	1194
55°	1342	249	1353	253	1342	1199
65°	1054	167	1051	164	1054	1036
75°	618	84	622	81	618	646
85°	111	27	117	20	111	153
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°	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6
2.5°	1955.7	1962.8	1968.1	1971.7	1973.5	1973.5	1974.4	1975.3	1986.8	1992.2	1995.7
5°	1957.5	1964.6	1975.3	1989.5	2001.9	2012.6	2021.5	2034.0	2046.4	2059.7	2064.2
7.5°	1949.5	1958.4	1979.7	2005.5	2029.5	2046.4	2058.0	2066.0	2072.2	2073.1	2077.5
10°	1942.3	1958.4	1987.7	2021.5	2051.7	2072.2	2072.2	2067.7	2074.0	2050.0	2025.9
12.5°	1929.9	1947.7	1987.7	2032.2	2060.6	2068.6	2065.1	2047.3	2010.8	1981.5	1968.1
15°	1914.8	1938.8	1988.6	2038.4	2062.4	2065.1	2031.3	1985.9	1958.4	1940.6	1918.3
17.5°	1897.9	1929.9	1989.5	2039.3	2048.2	2035.7	1971.7	1943.2	1914.8	1873.0	1842.7
20°	1881.9	1913.0	1982.4	2026.8	2032.2	1976.1	1926.3	1896.1	1848.1	1811.6	1798.3
22.5°	1857.0	1893.4	1976.1	2009.9	1989.5	1924.6	1876.5	1828.5	1784.9	1774.3	1758.3
25°	1836.5	1874.8	1961.9	1989.5	1935.2	1877.4	1821.4	1765.4	1744.9	1729.8	1715.6
27.5°	1808.9	1856.1	1943.2	1952.1	1877.4	1826.7	1744.9	1720.0	1701.3	1684.4	1678.2
30°	1778.7	1836.5	1917.4	1900.5	1829.4	1754.7	1694.2	1671.1	1657.8	1640.0	1632.9
32.5°	1744.0	1807.2	1889.0	1841.0	1777.8	1684.4	1645.3	1627.5	1609.7	1596.4	1551.9
35°	1708.4	1781.4	1855.2	1784.0	1715.6	1631.1	1596.4	1580.4	1563.5	1514.6	1468.3
37.5°	1672.0	1752.9	1814.3	1722.7	1632.9	1575.9	1546.6	1528.8	1490.6	1428.3	1405.2
40°	1630.2	1718.2	1761.8	1659.5	1560.8	1519.9	1492.3	1474.5	1388.3	1360.7	1353.6
42.5°	1588.4	1684.4	1697.8	1598.2	1501.2	1460.3	1437.2	1378.5	1319.8	1305.6	1308.2
45°	1548.4	1648.0	1627.5	1511.0	1439.0	1405.2	1366.0	1285.1	1254.0	1261.1	1262.9
47.5°	1500.3	1604.4	1553.7	1423.9	1374.9	1341.1	1254.0	1205.1	1200.6	1210.4	1215.7
50°	1448.8	1555.5	1475.4	1344.7	1305.6	1265.5	1166.8	1141.9	1147.3	1157.0	1163.3
52.5°	1400.7	1500.3	1394.5	1270.9	1237.1	1145.5	1078.8	1083.2	1092.1	1103.7	1107.2
55°	1342.0	1433.6	1308.2	1196.2	1164.2	1044.1	1013.9	1024.5	1033.4	1043.2	1050.3
57.5°	1280.7	1357.2	1206.0	1112.6	1061.0	954.3	956.9	964.1	970.3	981.8	405.5
60°	1210.4	1270.0	1093.9	1035.2	932.9	883.1	885.8	898.2	904.5	505.2	279.3
62.5°	1137.5	1168.6	992.5	947.2	815.5	812.0	824.4	829.8	564.7	266.8	261.5
65°	1053.9	1047.7	892.9	820.9	735.5	739.1	752.4	725.7	249.9	249.9	248.1
67.5°	961.4	924.0	796.0	679.5	658.1	666.1	680.4	237.5	231.2	233.0	226.8
70°	855.6	803.1	695.5	575.4	582.5	590.5	229.5	215.2	212.6	208.1	195.7
72.5°	743.5	671.5	569.2	499.8	504.3	316.6	201.0	193.9	185.0	176.1	162.8
75°	618.1	524.7	418.0	418.0	424.2	180.5	175.2	163.6	153.9	142.3	134.3
77.5°	484.7	403.8	324.6	337.1	164.5	151.2	141.4	129.0	121.0	113.8	109.4
80°	354.9	281.9	244.6	218.8	128.1	114.7	104.9	97.8	94.3	89.8	84.5
82.5°	233.0	169.9	169.9	103.2	89.8	79.2	76.5	71.1	67.6	64.9	62.3
85°	111.2	98.7	74.7	63.1	56.0	50.7	48.9	46.2	46.2	45.4	44.5
87.5°	40.9	44.5	32.9	32.0	30.2	29.3	30.2	30.2	31.1	30.2	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

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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°	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6
2.5°	2004.6	2011.7	2017.1	2025.9	2037.5	2047.3	2056.2	2068.6	2088.2	2093.5	2098.0
5°	2064.2	2066.9	2073.1	2080.2	2082.0	2086.4	2085.5	2090.9	2093.5	2099.8	2086.4
7.5°	2067.7	2053.5	2036.6	2021.5	2010.8	2001.0	1994.8	2004.6	2009.9	2014.4	2001.0
10°	1993.0	1976.1	1966.4	1957.5	1946.8	1931.7	1911.2	1915.7	1913.9	1913.9	1909.4
12.5°	1945.9	1921.9	1897.0	1874.8	1865.0	1864.1	1865.0	1874.8	1874.8	1873.9	1868.5
15°	1872.1	1849.0	1836.5	1831.2	1831.2	1828.5	1828.5	1839.2	1836.5	1836.5	1833.8
17.5°	1823.2	1807.2	1798.3	1792.0	1789.4	1793.8	1799.2	1803.6	1804.5	1800.9	1786.7
20°	1783.2	1768.0	1757.4	1759.1	1758.3	1760.9	1763.6	1748.5	1729.8	1704.9	1693.3
22.5°	1741.4	1729.8	1721.8	1721.8	1711.1	1694.2	1669.3	1664.0	1661.3	1649.7	1640.0
25°	1701.3	1688.0	1676.4	1640.9	1618.6	1621.3	1616.8	1608.0	1607.1	1606.2	1609.7
27.5°	1661.3	1626.6	1582.2	1576.8	1567.9	1567.0	1572.4	1576.8	1576.8	1580.4	1584.8
30°	1578.6	1538.6	1530.6	1520.8	1524.4	1536.8	1539.5	1545.7	1547.5	1553.7	1557.3
32.5°	1503.0	1485.2	1478.1	1482.6	1494.1	1504.8	1511.0	1513.7	1518.1	1523.5	1527.9
35°	1441.6	1436.3	1442.5	1452.3	1463.9	1472.8	1478.1	1483.4	1487.9	1492.3	1495.9
37.5°	1396.3	1399.8	1408.7	1421.2	1432.7	1439.9	1444.3	1450.5	1456.8	1462.1	1440.8
40°	1353.6	1362.5	1372.3	1385.6	1395.4	1402.5	1407.0	1415.0	1361.6	616.3	338.0
42.5°	1316.2	1326.0	1333.1	1343.8	1354.5	1359.8	1320.7	589.6	333.5	331.7	336.2
45°	1270.9	1278.9	1290.5	1298.5	1308.2	859.1	328.2	331.7	326.4	329.9	331.7
47.5°	1224.6	1237.1	1243.3	1186.4	353.1	326.4	322.8	326.4	322.8	327.3	324.6
50°	1172.2	1187.3	844.9	319.3	316.6	314.8	318.4	316.6	319.3	322.8	315.7
52.5°	1118.8	692.8	309.5	307.7	309.5	307.7	313.9	309.5	310.4	306.8	297.9
55°	378.9	299.7	297.0	296.2	301.5	301.5	301.5	294.4	289.9	281.0	274.8
57.5°	289.9	289.9	289.0	289.9	288.2	286.4	278.4	272.1	265.9	253.5	249.9
60°	274.8	274.8	274.8	274.8	266.8	263.2	250.8	245.5	234.8	228.6	225.0
62.5°	262.4	260.6	252.6	249.9	241.0	231.2	224.1	218.8	208.1	204.6	201.9
65°	244.6	238.3	228.6	217.9	213.4	202.8	199.2	191.2	185.9	183.2	181.4
67.5°	215.2	206.3	198.3	191.2	183.2	179.6	175.2	169.0	165.4	163.6	161.9
70°	184.1	177.9	169.9	165.4	160.1	157.4	151.2	149.4	146.7	144.1	141.4
72.5°	153.9	150.3	146.7	140.5	138.7	137.0	130.7	127.2	123.6	120.1	118.3
75°	129.0	126.3	124.5	119.2	116.5	111.2	106.7	104.1	101.4	98.7	96.9
77.5°	105.8	104.1	98.7	95.2	93.4	88.9	87.2	88.0	86.3	82.7	80.9
80°	82.7	80.9	76.5	76.5	74.7	72.9	71.1	69.4	67.6	64.9	63.1
82.5°	63.1	61.4	59.6	57.8	56.0	55.1	54.3	52.5	50.7	48.9	48.0
85°	44.5	43.6	42.7	41.8	40.9	40.0	39.1	37.4	35.6	34.7	33.8
87.5°	30.2	29.3	28.5	27.6	26.7	25.8	24.9	24.0	22.2	21.3	20.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6
2.5°	2098.0	2102.4	2098.0	2088.2	2082.0	2079.3	2084.6	2084.6	2088.2	2092.6	2093.5
5°	2065.1	2054.4	2042.0	2029.5	2023.3	2019.7	2009.9	2011.7	2014.4	2016.2	2017.9
7.5°	1983.3	1969.0	1952.1	1936.1	1929.9	1924.6	1913.0	1913.0	1913.0	1913.9	1919.2
10°	1899.7	1893.4	1886.3	1875.6	1867.6	1865.0	1855.2	1857.9	1856.1	1858.7	1865.0
12.5°	1860.5	1853.4	1847.2	1836.5	1827.6	1824.1	1819.6	1822.3	1821.4	1825.8	1831.2
15°	1825.0	1821.4	1814.3	1806.3	1798.3	1791.2	1775.1	1769.8	1766.3	1761.8	1768.0
17.5°	1766.3	1741.4	1724.5	1712.0	1703.1	1696.9	1692.4	1692.4	1695.1	1697.8	1703.1
20°	1686.2	1679.1	1671.1	1657.8	1648.9	1645.3	1642.6	1642.6	1647.1	1650.6	1660.4
22.5°	1631.1	1630.2	1627.5	1621.3	1616.8	1616.8	1617.7	1619.5	1625.7	1631.1	1640.9
25°	1605.3	1608.8	1607.1	1603.5	1600.8	1601.7	1599.9	1601.7	1608.0	1613.3	1621.3
27.5°	1584.8	1590.2	1588.4	1583.0	1578.6	1580.4	1583.0	1581.3	1586.6	1592.8	1599.1
30°	1557.3	1558.1	1561.7	1555.5	1553.7	1556.4	1557.3	1559.0	1564.4	1568.8	1574.2
32.5°	1526.1	1533.2	1532.4	1526.1	1526.1	1528.8	1529.7	1470.1	1358.9	1170.4	1118.8
35°	1495.9	1503.9	1490.6	1256.7	869.8	464.2	358.4	346.0	348.6	350.4	352.2
37.5°	1106.4	524.7	334.4	337.1	339.7	342.4	345.1	347.7	350.4	353.1	354.0
40°	332.6	331.7	334.4	338.0	340.6	342.4	346.0	348.6	351.3	354.0	354.9
42.5°	329.1	330.8	333.5	337.1	340.6	344.2	346.8	350.4	352.2	354.0	354.9
45°	327.3	330.8	334.4	337.1	339.7	341.5	343.3	344.2	343.3	343.3	345.1
47.5°	324.6	328.2	329.1	328.2	329.1	328.2	328.2	328.2	325.5	324.6	324.6
50°	314.8	314.8	313.1	309.5	308.6	307.7	305.9	305.0	301.5	300.6	300.6
52.5°	294.4	293.5	290.8	286.4	284.6	282.8	281.9	281.0	277.5	275.7	276.6
55°	270.4	268.6	265.9	260.6	259.7	257.9	257.0	256.1	252.6	254.4	251.7
57.5°	248.1	244.6	241.0	240.1	236.6	235.7	234.8	233.9	231.2	232.1	230.3
60°	221.4	220.6	218.8	215.2	215.2	214.3	214.3	212.6	210.8	209.9	209.9
62.5°	201.9	199.2	197.4	197.4	194.8	194.8	194.8	193.0	191.2	192.1	191.2
65°	180.5	179.6	178.8	177.0	177.0	176.1	176.1	174.3	171.6	172.5	170.8
67.5°	162.8	161.0	159.2	158.3	154.7	153.0	152.1	151.2	147.6	148.5	146.7
70°	140.5	137.8	136.1	134.3	131.6	129.8	129.8	128.1	125.4	126.3	124.5
72.5°	117.4	115.6	113.8	112.9	110.3	109.4	108.5	107.6	104.9	105.8	104.9
75°	97.8	97.8	96.9	96.1	93.4	90.7	88.9	88.0	86.3	87.2	85.4
77.5°	80.9	79.2	77.4	77.4	74.7	72.9	71.1	71.1	71.1	70.3	69.4
80°	63.1	61.4	61.4	60.5	58.7	56.9	56.0	56.0	55.1	55.1	54.3
82.5°	48.0	46.2	45.4	45.4	43.6	42.7	41.8	40.9	40.9	40.9	40.0
85°	33.8	32.0	31.1	31.1	29.3	28.5	28.5	27.6	27.6	26.7	26.7
87.5°	20.5	19.6	18.7	18.7	16.9	16.0	16.0	16.0	15.1	15.1	14.2
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: P1213424

CATALOG NUMBER: 4SNLED-LD5-43SL-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°	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6
2.5°	2093.5	2093.5	2087.3	2089.1	2086.4	2090.0	2085.5	2085.5	2090.9	2090.9	2094.4
5°	2018.8	2014.4	2013.5	2011.7	2002.8	2006.4	2001.9	1997.5	2003.7	2003.7	2011.7
7.5°	1916.6	1908.6	1912.1	1906.8	1901.4	1893.4	1896.1	1892.5	1897.0	1903.2	1911.2
10°	1864.1	1857.0	1861.4	1856.1	1858.7	1847.2	1848.1	1849.0	1853.4	1855.2	1862.3
12.5°	1830.3	1828.5	1826.7	1825.0	1826.7	1820.5	1816.9	1817.8	1819.6	1820.5	1825.8
15°	1759.1	1747.6	1751.1	1738.7	1739.6	1740.5	1733.3	1740.5	1739.6	1751.1	1761.8
17.5°	1701.3	1701.3	1695.1	1689.8	1686.2	1685.3	1680.0	1683.5	1680.0	1687.1	1689.8
20°	1661.3	1660.4	1659.5	1656.9	1648.0	1648.9	1651.5	1643.5	1642.6	1641.7	1647.1
22.5°	1642.6	1643.5	1640.0	1640.0	1632.0	1633.7	1634.6	1625.7	1626.6	1624.0	1626.6
25°	1623.1	1624.8	1620.4	1620.4	1618.6	1617.7	1613.3	1615.1	1609.7	1605.3	1609.7
27.5°	1599.9	1603.5	1599.9	1601.7	1598.2	1596.4	1593.7	1591.9	1586.6	1585.7	1588.4
30°	1578.6	1580.4	1579.5	1575.0	1574.2	1568.8	1571.5	1566.2	1560.8	1561.7	1563.5
32.5°	809.3	772.8	595.9	538.1	532.7	552.3	654.6	796.9	1032.5	1261.1	1425.6
35°	353.1	353.1	353.1	352.2	352.2	351.3	350.4	349.5	348.6	347.7	346.8
37.5°	354.9	354.9	354.9	354.9	354.0	353.1	353.1	351.3	350.4	349.5	348.6
40°	355.7	356.6	356.6	356.6	355.7	355.7	354.9	353.1	352.2	350.4	348.6
42.5°	354.9	355.7	355.7	354.9	354.9	354.0	354.0	353.1	352.2	351.3	350.4
45°	343.3	344.2	342.4	342.4	341.5	341.5	341.5	341.5	341.5	342.4	342.4
47.5°	322.8	322.8	321.9	321.1	321.1	320.2	321.1	320.2	321.9	322.8	324.6
50°	298.8	298.8	297.0	296.2	296.2	296.2	296.2	297.0	297.9	299.7	301.5
52.5°	273.9	273.9	273.0	272.1	271.3	271.3	273.9	273.0	273.9	274.8	277.5
55°	249.9	250.8	249.0	249.0	248.1	248.1	248.1	249.0	249.9	250.8	253.5
57.5°	229.5	229.5	227.7	227.7	227.7	226.8	229.5	227.7	228.6	229.5	231.2
60°	209.0	208.1	208.1	207.2	207.2	207.2	209.0	208.1	208.1	209.0	210.8
62.5°	190.3	190.3	189.4	189.4	188.5	188.5	190.3	189.4	189.4	190.3	191.2
65°	169.0	169.0	168.1	167.2	169.9	167.2	169.9	168.1	169.9	170.8	172.5
67.5°	145.0	145.0	145.0	144.1	144.1	145.9	146.7	145.0	145.9	147.6	148.5
70°	123.6	123.6	122.7	122.7	122.7	124.5	125.4	123.6	124.5	125.4	127.2
72.5°	104.9	103.2	103.2	102.3	104.1	104.1	104.9	104.1	104.9	104.9	106.7
75°	86.3	84.5	84.5	84.5	86.3	85.4	86.3	85.4	86.3	86.3	87.2
77.5°	69.4	68.5	67.6	67.6	69.4	69.4	69.4	68.5	69.4	70.3	71.1
80°	54.3	53.4	52.5	52.5	54.3	54.3	54.3	55.1	54.3	55.1	56.0
82.5°	40.0	39.1	38.2	40.0	40.0	40.0	40.0	40.9	40.0	40.9	41.8
85°	26.7	25.8	24.9	26.7	26.7	26.7	26.7	27.6	26.7	27.6	28.5
87.5°	14.2	13.3	13.3	14.2	14.2	14.2	15.1	15.1	15.1	16.0	16.0
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: P1213424

CATALOG NUMBER: 4SNLED-LD5-43SL-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°	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6
2.5°	2099.8	2102.4	2101.5	2096.2	2090.9	2084.6	2080.2	2081.1	2090.0	2092.6	2084.6
5°	2011.7	2028.6	2028.6	2040.2	2034.0	2028.6	2032.2	2051.7	2061.5	2076.6	2082.0
7.5°	1921.0	1929.0	1928.1	1939.7	1937.9	1937.9	1940.6	1966.4	1978.8	1991.3	1994.8
10°	1870.3	1878.3	1877.4	1878.3	1875.6	1869.4	1869.4	1881.0	1891.7	1897.9	1899.7
12.5°	1833.8	1838.3	1837.4	1837.4	1835.6	1830.3	1829.4	1839.2	1850.7	1858.7	1859.6
15°	1779.6	1792.0	1794.7	1806.3	1803.6	1796.5	1798.3	1806.3	1813.4	1820.5	1817.8
17.5°	1698.7	1704.9	1705.8	1710.2	1708.4	1708.4	1719.1	1748.5	1768.0	1784.9	1786.7
20°	1652.4	1656.9	1655.1	1664.9	1660.4	1659.5	1662.2	1674.7	1683.5	1691.5	1705.8
22.5°	1630.2	1633.7	1631.1	1632.0	1624.0	1616.8	1615.1	1624.8	1634.6	1645.3	1645.3
25°	1611.5	1614.2	1613.3	1611.5	1605.3	1595.5	1593.7	1595.5	1599.1	1599.9	1593.7
27.5°	1589.3	1591.1	1591.1	1591.9	1583.9	1575.0	1573.3	1571.5	1575.0	1574.2	1564.4
30°	1566.2	1563.5	1564.4	1565.3	1558.1	1550.1	1546.6	1545.7	1549.3	1548.4	1538.6
32.5°	1511.0	1531.5	1533.2	1535.0	1528.8	1521.7	1518.1	1515.5	1517.2	1516.3	1507.5
35°	346.0	352.2	431.3	976.5	1326.0	1468.3	1483.4	1479.9	1480.8	1480.8	1473.7
37.5°	346.8	346.0	345.1	342.4	339.7	338.0	584.3	1246.0	1443.4	1444.3	1438.1
40°	346.8	346.0	345.1	343.3	339.7	337.1	332.6	329.1	337.1	741.7	1357.2
42.5°	348.6	346.8	345.1	343.3	339.7	336.2	332.6	328.2	330.8	329.1	324.6
45°	343.3	342.4	342.4	341.5	339.7	336.2	331.7	326.4	323.7	326.4	321.9
47.5°	326.4	327.3	329.9	330.8	330.8	331.7	329.1	325.5	321.1	323.7	318.4
50°	303.3	305.0	305.9	310.4	312.2	315.7	316.6	316.6	315.7	319.3	315.7
52.5°	278.4	280.1	284.6	286.4	288.2	293.5	295.3	297.9	299.7	305.0	308.6
55°	254.4	255.2	257.0	260.6	263.2	267.7	270.4	273.0	277.5	280.1	290.8
57.5°	232.1	233.0	236.6	237.5	239.2	242.8	245.5	249.0	252.6	254.4	266.8
60°	210.8	211.7	214.3	215.2	216.1	219.7	222.3	225.0	227.7	229.5	238.3
62.5°	192.1	192.1	194.8	194.8	195.7	198.3	200.1	201.9	204.6	205.4	209.9
65°	173.4	174.3	176.1	176.1	177.0	178.8	179.6	180.5	183.2	183.2	186.8
67.5°	150.3	151.2	153.9	155.6	156.5	160.1	161.0	161.9	163.6	164.5	166.3
70°	128.1	129.0	131.6	132.5	133.4	136.1	137.8	140.5	143.2	145.9	147.6
72.5°	107.6	108.5	111.2	111.2	113.8	114.7	116.5	117.4	120.1	121.8	124.5
75°	88.0	88.9	91.6	91.6	94.3	95.2	96.1	96.9	98.7	100.5	102.3
77.5°	72.0	72.0	75.6	77.4	79.2	79.2	80.0	80.0	80.0	80.9	82.7
80°	56.9	56.9	59.6	61.4	63.1	63.1	64.0	64.9	65.8	65.8	66.7
82.5°	42.7	42.7	45.4	46.2	48.0	48.0	48.0	48.9	49.8	48.9	50.7
85°	29.3	29.3	31.1	32.0	33.8	33.8	33.8	34.7	35.6	34.7	35.6
87.5°	16.9	17.8	18.7	19.6	20.5	21.3	21.3	21.3	22.2	22.2	23.1
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: P1213424

CATALOG NUMBER: 4SNLED-LD5-43SL-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°	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6
2.5°	2075.8	2065.1	2064.2	2051.7	2048.2	2049.1	2039.3	2035.7	2019.7	2016.2	1999.3
5°	2083.8	2089.1	2086.4	2085.5	2088.2	2086.4	2079.3	2075.8	2073.1	2066.0	2051.7
7.5°	1995.7	1999.3	2001.9	2013.5	2023.3	2040.2	2058.0	2069.5	2078.4	2080.2	2068.6
10°	1905.9	1922.8	1934.3	1952.1	1966.4	1976.1	1986.8	1996.6	2022.4	2048.2	2063.3
12.5°	1859.6	1864.1	1863.2	1873.0	1882.8	1908.6	1933.5	1947.7	1967.2	1978.8	2006.4
15°	1820.5	1821.4	1824.1	1831.2	1836.5	1845.4	1857.0	1878.3	1917.4	1935.2	1950.4
17.5°	1784.9	1784.9	1786.7	1792.9	1800.1	1808.1	1815.2	1824.1	1843.6	1873.0	1910.3
20°	1728.0	1752.9	1755.6	1754.7	1758.3	1773.4	1775.1	1791.2	1800.9	1812.5	1849.0
22.5°	1643.5	1658.6	1680.0	1712.9	1725.3	1732.5	1737.8	1744.9	1760.0	1773.4	1788.5
25°	1597.3	1607.1	1613.3	1623.1	1648.9	1690.7	1698.7	1706.7	1716.5	1726.2	1744.9
27.5°	1556.4	1555.5	1559.9	1568.8	1575.9	1598.2	1637.3	1668.4	1670.2	1684.4	1700.4
30°	1527.0	1521.7	1515.5	1513.7	1523.5	1535.0	1546.6	1595.5	1629.3	1636.4	1653.3
32.5°	1499.4	1490.6	1481.7	1474.5	1468.3	1478.1	1485.2	1506.6	1550.1	1591.1	1599.9
35°	1465.7	1456.8	1446.1	1438.1	1428.3	1427.4	1426.5	1447.0	1461.2	1510.1	1552.8
37.5°	1431.0	1421.2	1412.3	1403.4	1393.6	1386.5	1382.1	1387.4	1400.7	1422.1	1493.2
40°	1394.5	1382.9	1374.1	1366.9	1353.6	1348.3	1339.4	1335.8	1336.7	1355.4	1392.7
42.5°	833.3	1328.7	1333.1	1325.1	1313.6	1306.5	1296.7	1292.2	1283.3	1292.2	1313.6
45°	321.1	324.6	972.1	1284.2	1270.0	1261.1	1252.2	1247.8	1238.0	1230.9	1250.4
47.5°	314.8	318.4	311.3	441.1	1212.2	1214.9	1204.2	1199.7	1190.0	1184.6	1179.3
50°	310.4	313.1	307.7	309.5	303.3	1110.8	1155.3	1149.9	1139.3	1133.0	1122.4
52.5°	305.9	305.9	302.4	297.9	296.2	297.0	934.7	1099.2	1086.8	1080.6	1066.3
55°	291.7	293.5	297.0	289.9	288.2	287.3	284.6	890.2	1029.0	1021.9	1009.4
57.5°	270.4	273.9	283.7	281.9	281.9	274.8	273.0	273.0	826.2	962.3	949.8
60°	245.5	249.0	259.7	263.2	265.9	264.1	262.4	261.5	257.9	870.7	886.7
62.5°	219.7	223.2	226.8	238.3	241.9	246.4	251.7	249.0	245.5	245.5	820.0
65°	192.1	197.4	199.2	209.9	214.3	222.3	226.8	233.0	231.2	230.3	234.8
67.5°	168.1	174.3	175.2	179.6	187.7	191.2	196.5	208.1	213.4	215.2	217.0
70°	147.6	151.2	153.9	155.6	161.0	161.9	171.6	179.6	187.7	196.5	199.2
72.5°	127.2	129.8	135.2	133.4	135.2	138.7	144.1	149.4	157.4	169.9	177.9
75°	104.1	105.8	109.4	111.2	114.7	117.4	121.0	125.4	132.5	138.7	149.4
77.5°	83.6	84.5	87.2	88.0	91.6	94.3	100.5	103.2	107.6	112.1	118.3
80°	67.6	67.6	68.5	68.5	71.1	73.8	78.3	80.9	86.3	89.8	89.8
82.5°	51.6	51.6	54.3	54.3	56.0	56.0	58.7	58.7	61.4	63.1	64.9
85°	36.5	37.4	39.1	38.2	40.0	39.1	40.9	42.7	43.6	42.7	41.8
87.5°	24.0	24.0	25.8	24.9	25.8	25.8	27.6	27.6	28.5	28.5	27.6
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: P1213424

CATALOG NUMBER: 4SNLED-LD5-43SL-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°	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6
2.5°	1993.0	1979.7	1971.7	1961.9	1959.2	1956.6	1960.1	1960.1	1954.8	1950.4	1942.3
5°	2039.3	2025.1	2009.9	1993.9	1978.8	1962.8	1956.6	1955.7	1945.9	1940.6	1937.9
7.5°	2063.3	2056.2	2039.3	2017.1	1993.9	1965.5	1953.0	1945.9	1936.1	1934.3	1934.3
10°	2066.0	2058.0	2049.1	2033.1	2006.4	1969.0	1945.0	1930.8	1921.9	1928.1	1939.7
12.5°	2040.2	2055.3	2047.3	2036.6	2015.3	1969.9	1935.2	1913.9	1911.2	1927.2	1957.5
15°	1974.4	2018.8	2041.1	2030.4	2013.5	1968.1	1919.2	1894.3	1894.3	1927.2	1966.4
17.5°	1924.6	1959.2	2013.5	2022.4	2002.8	1964.6	1904.1	1874.8	1882.8	1930.8	1972.6
20°	1883.6	1905.0	1957.5	2007.3	1988.6	1956.6	1881.9	1851.6	1867.6	1925.4	1981.5
22.5°	1819.6	1862.3	1894.3	1968.1	1974.4	1941.5	1859.6	1823.2	1855.2	1925.4	1977.0
25°	1757.4	1808.9	1842.7	1914.8	1953.0	1922.8	1839.2	1792.9	1841.9	1922.8	1973.5
27.5°	1713.8	1737.8	1799.2	1850.7	1921.0	1897.9	1811.6	1760.0	1825.0	1908.6	1953.0
30°	1667.5	1683.5	1744.0	1792.9	1878.3	1869.4	1783.2	1723.6	1803.6	1895.2	1899.7
32.5°	1616.8	1634.6	1665.8	1736.9	1818.7	1842.7	1751.1	1687.1	1780.5	1874.8	1837.4
35°	1565.3	1578.6	1603.5	1680.0	1749.4	1802.7	1712.0	1645.3	1764.5	1843.6	1777.8
37.5°	1513.7	1527.9	1549.3	1613.3	1676.4	1765.4	1678.2	1603.5	1735.1	1788.5	1715.6
40°	1464.8	1472.8	1495.0	1535.0	1616.0	1727.1	1640.0	1559.9	1704.9	1718.2	1631.1
42.5°	1374.9	1415.0	1435.4	1467.4	1547.5	1674.7	1595.5	1513.7	1671.1	1648.0	1546.6
45°	1278.0	1365.2	1374.1	1406.1	1487.0	1618.6	1553.7	1468.3	1639.1	1587.5	1466.5
47.5°	1198.8	1262.0	1313.6	1340.3	1415.0	1552.8	1514.6	1430.1	1591.1	1511.0	1388.3
50°	1128.6	1162.4	1255.8	1275.3	1328.7	1473.7	1468.3	1385.6	1524.4	1415.0	1311.8
52.5°	1060.1	1084.1	1168.6	1210.4	1254.0	1388.3	1413.2	1342.0	1451.4	1318.9	1234.4
55°	1000.5	1008.5	1054.8	1142.8	1182.0	1302.0	1352.7	1291.3	1358.9	1227.3	1159.7
57.5°	939.2	932.0	965.8	1078.8	1107.2	1214.0	1288.7	1239.8	1284.2	1133.9	1082.3
60°	875.1	865.3	879.6	954.3	1028.1	1126.8	1213.1	1182.8	1193.5	1041.4	996.1
62.5°	808.4	798.6	794.2	841.3	950.7	1037.0	1136.6	1119.7	1082.3	956.9	889.4
65°	739.1	729.3	722.2	740.8	865.3	920.5	1051.2	1046.8	960.5	868.0	748.8
67.5°	225.0	663.5	648.3	647.4	729.3	814.6	958.7	951.6	837.8	772.8	644.8
70°	202.8	538.1	571.9	563.8	599.4	707.0	852.9	847.6	718.6	619.9	570.1
72.5°	185.9	190.3	505.2	496.3	504.3	601.2	742.6	728.4	609.2	489.1	492.7
75°	159.2	167.2	174.3	418.9	408.2	498.0	622.5	600.3	502.5	403.8	411.8
77.5°	129.8	139.6	145.0	305.0	329.9	354.9	497.1	467.8	346.0	322.8	153.9
80°	96.9	104.9	113.8	121.8	250.8	248.1	369.1	339.7	241.0	201.0	120.1
82.5°	71.1	73.8	79.2	88.0	99.6	166.3	237.5	209.0	167.2	91.6	82.7
85°	44.5	48.0	50.7	53.4	60.5	99.6	117.4	93.4	70.3	56.0	52.5
87.5°	28.5	28.5	27.6	28.5	29.3	35.6	40.0	38.2	30.2	28.5	28.5
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: P1213424

CATALOG NUMBER: 4SNLED-LD5-43SL-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°	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6
2.5°	1933.5	1921.0	1921.0	1917.4	1920.1	1920.1	1919.2	1920.1	1926.3	1929.9	1936.1
5°	1932.6	1929.0	1937.0	1946.8	1958.4	1972.6	1976.1	1988.6	2000.2	2015.3	2031.3
7.5°	1944.1	1956.6	1971.7	1987.7	2010.8	2027.7	2042.8	2058.0	2068.6	2082.9	2091.8
10°	1961.0	1985.9	2011.7	2032.2	2057.1	2071.3	2081.1	2082.9	2067.7	2043.7	2024.2
12.5°	1985.0	2014.4	2038.4	2058.0	2069.5	2064.2	2035.7	2006.4	1989.5	1964.6	1929.9
15°	2005.5	2032.2	2057.1	2049.1	2017.9	1988.6	1966.4	1931.7	1897.9	1874.8	1859.6
17.5°	2014.4	2040.2	2031.3	1989.5	1960.1	1926.3	1881.0	1854.3	1832.1	1814.3	1805.4
20°	2019.7	2015.3	1967.2	1937.0	1880.1	1849.0	1819.6	1794.7	1777.8	1768.9	1767.1
22.5°	2005.5	1951.2	1910.3	1856.1	1814.3	1788.5	1765.4	1744.9	1733.3	1726.2	1721.8
25°	1958.4	1895.2	1834.7	1792.0	1756.5	1734.2	1716.5	1699.6	1685.3	1681.8	1672.9
27.5°	1892.5	1841.0	1760.9	1728.0	1696.9	1686.2	1666.6	1649.7	1637.3	1626.6	1598.2
30°	1838.3	1756.5	1698.7	1668.4	1649.7	1637.3	1615.1	1597.3	1575.9	1536.8	1520.8
32.5°	1771.6	1690.7	1635.5	1618.6	1595.5	1584.8	1559.9	1520.8	1487.9	1471.9	1471.0
35°	1685.3	1618.6	1578.6	1563.5	1544.8	1527.0	1475.4	1439.9	1423.9	1425.6	1439.0
37.5°	1613.3	1553.7	1527.9	1506.6	1485.2	1439.9	1396.3	1379.4	1383.8	1392.7	1399.0
40°	1540.4	1495.0	1465.7	1448.8	1400.7	1356.3	1333.1	1339.4	1347.4	1353.6	1361.6
42.5°	1469.2	1437.2	1407.8	1374.9	1309.1	1285.1	1290.5	1298.5	1305.6	1314.5	1322.5
45°	1401.6	1373.2	1339.4	1264.7	1231.8	1238.0	1246.0	1252.2	1262.9	1269.1	1277.1
47.5°	1337.6	1307.3	1247.8	1182.0	1178.4	1190.8	1198.0	1206.0	1214.0	1198.0	660.8
50°	1265.5	1234.4	1143.7	1118.8	1126.8	1138.4	1147.3	1155.3	1029.0	409.1	314.8
52.5°	1194.4	1115.2	1057.4	1064.6	1072.6	1085.9	1092.1	811.1	322.8	307.7	308.6
55°	1115.2	1013.9	997.0	1005.9	1013.0	1026.3	680.4	297.9	296.2	295.3	302.4
57.5°	990.7	929.4	936.5	945.4	952.5	672.4	289.9	288.2	289.0	289.9	290.8
60°	879.6	866.2	874.2	882.2	624.3	280.1	274.8	275.7	279.3	276.6	269.5
62.5°	791.5	802.2	810.2	709.7	265.9	263.2	265.9	263.2	257.0	252.6	243.7
65°	723.9	734.6	740.8	249.9	249.0	252.6	249.9	241.0	231.2	218.8	216.1
67.5°	652.8	663.5	237.5	231.2	234.8	230.3	219.7	209.0	201.9	191.2	186.8
70°	579.0	248.1	215.2	214.3	208.1	201.0	189.4	178.8	169.9	165.4	161.0
72.5°	418.0	196.5	193.9	186.8	176.1	166.3	156.5	150.3	145.9	143.2	140.5
75°	174.3	170.8	162.8	150.3	139.6	135.2	128.1	123.6	121.8	116.5	114.7
77.5°	145.9	138.7	127.2	118.3	112.1	109.4	104.1	98.7	96.1	95.2	91.6
80°	112.1	102.3	96.9	92.5	90.7	84.5	78.3	75.6	73.8	72.9	70.3
82.5°	76.5	72.9	69.4	63.1	63.1	60.5	57.8	56.0	54.3	54.3	52.5
85°	49.8	47.1	46.2	43.6	43.6	41.8	40.9	40.0	39.1	38.2	37.4
87.5°	28.5	28.5	29.3	28.5	28.5	27.6	26.7	25.8	24.9	24.9	23.1
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: P1213424

CATALOG NUMBER: 4SNLED-LD5-43SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6
2.5°	1944.1	1953.0	1954.8	1985.0	2001.9	2001.0	1995.7	2011.7	2001.9	1996.6	2001.9
5°	2047.3	2058.0	2066.9	2099.8	2111.3	2116.7	2115.8	2124.7	2117.5	2111.3	2111.3
7.5°	2098.0	2101.5	2105.1	2097.1	2091.8	2082.9	2069.5	2050.0	2040.2	2029.5	2016.2
10°	2014.4	2002.8	2007.3	1991.3	1977.9	1968.1	1955.7	1939.7	1926.3	1916.6	1901.4
12.5°	1912.1	1911.2	1913.0	1915.7	1902.3	1894.3	1884.5	1873.0	1863.2	1852.5	1840.1
15°	1849.9	1850.7	1857.9	1855.2	1850.7	1846.3	1835.6	1832.1	1823.2	1811.6	1804.5
17.5°	1805.4	1809.8	1816.9	1813.4	1806.3	1801.8	1793.8	1785.8	1777.8	1768.9	1758.3
20°	1766.3	1770.7	1775.1	1770.7	1757.4	1751.1	1740.5	1715.6	1697.8	1680.0	1664.0
22.5°	1723.6	1726.2	1722.7	1708.4	1674.7	1658.6	1646.2	1639.1	1624.0	1614.2	1604.4
25°	1670.2	1655.1	1632.0	1616.0	1602.6	1595.5	1590.2	1589.3	1587.5	1585.7	1581.3
27.5°	1583.0	1577.7	1565.3	1559.0	1559.9	1562.6	1563.5	1566.2	1563.5	1559.9	1556.4
30°	1518.1	1520.8	1521.7	1523.5	1527.9	1530.6	1531.5	1535.0	1533.2	1530.6	1528.8
32.5°	1477.2	1483.4	1487.0	1492.3	1495.0	1499.4	1499.4	1504.8	1499.4	1498.6	1496.8
35°	1443.4	1448.8	1450.5	1458.5	1461.2	1465.7	1465.7	1470.1	1465.7	1420.3	1121.5
37.5°	1409.6	1415.0	1418.5	1425.6	1426.5	1429.2	1318.9	964.9	622.5	482.0	368.2
40°	1369.6	1375.8	1379.4	1382.1	971.2	616.3	424.2	345.1	345.1	347.7	350.4
42.5°	1326.9	1331.4	927.6	539.8	336.2	335.3	338.0	340.6	343.3	346.8	350.4
45°	1043.2	526.5	334.4	326.4	329.1	332.6	336.2	339.7	344.2	347.7	349.5
47.5°	342.4	321.1	325.5	321.9	326.4	330.8	334.4	338.0	338.8	339.7	338.8
50°	316.6	316.6	319.3	319.3	322.8	324.6	324.6	324.6	321.1	320.2	317.5
52.5°	305.9	313.1	309.5	311.3	309.5	306.8	304.2	301.5	296.2	294.4	290.8
55°	300.6	303.3	294.4	291.7	288.2	281.0	277.5	273.9	269.5	267.7	263.2
57.5°	288.2	281.9	272.1	267.7	261.5	254.4	250.8	248.1	243.7	241.9	239.2
60°	265.0	252.6	246.4	241.0	233.9	227.7	225.0	223.2	219.7	218.8	216.1
62.5°	236.6	225.9	220.6	213.4	208.1	204.6	201.9	201.0	197.4	197.4	195.7
65°	205.4	200.1	195.7	188.5	185.9	182.3	181.4	180.5	178.8	177.9	176.1
67.5°	180.5	177.0	170.8	167.2	165.4	162.8	161.0	159.2	155.6	153.9	151.2
70°	158.3	155.6	149.4	146.7	143.2	138.7	136.1	134.3	131.6	129.8	127.2
72.5°	137.0	129.0	124.5	121.8	119.2	114.7	113.8	112.1	109.4	108.5	105.8
75°	110.3	104.1	101.4	99.6	96.9	94.3	94.3	94.3	91.6	90.7	89.8
77.5°	88.0	84.5	82.7	80.9	80.0	78.3	75.6	74.7	72.0	72.0	71.1
80°	67.6	65.8	64.0	63.1	62.3	60.5	58.7	57.8	55.1	55.1	54.3
82.5°	49.8	48.9	48.0	47.1	46.2	45.4	42.7	41.8	40.0	40.0	39.1
85°	35.6	34.7	32.9	32.0	32.0	31.1	28.5	27.6	25.8	25.8	25.8
87.5°	22.2	21.3	20.5	19.6	18.7	17.8	16.0	15.1	15.1	13.3	12.5
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: P1213424

CATALOG NUMBER: 4SNLED-LD5-43SL-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°	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6
2.5°	1991.3	2006.4	2004.6	2015.3	2017.9	2023.3	2025.1	2025.9	2012.6	2023.3	2024.2
5°	2108.7	2111.3	2113.1	2117.5	2122.0	2122.9	2118.4	2113.1	2114.9	2111.3	2102.4
7.5°	2014.4	2001.0	1998.4	1994.8	1993.0	1991.3	1983.3	1990.4	1982.4	1978.8	1966.4
10°	1898.8	1886.3	1885.4	1885.4	1888.1	1887.2	1885.4	1881.9	1889.0	1884.5	1881.9
12.5°	1838.3	1833.8	1836.5	1834.7	1841.9	1843.6	1841.9	1841.9	1840.1	1836.5	1838.3
15°	1801.8	1798.3	1800.9	1798.3	1803.6	1804.5	1800.1	1802.7	1798.3	1793.8	1792.0
17.5°	1753.8	1745.8	1739.6	1730.7	1731.6	1729.8	1724.5	1724.5	1720.0	1708.4	1709.3
20°	1661.3	1653.3	1649.7	1649.7	1654.2	1656.0	1655.1	1656.9	1652.4	1650.6	1643.5
22.5°	1603.5	1602.6	1604.4	1608.8	1616.0	1625.7	1626.6	1626.6	1626.6	1625.7	1616.8
25°	1583.0	1583.0	1584.8	1591.1	1596.4	1603.5	1605.3	1607.1	1605.3	1605.3	1597.3
27.5°	1559.9	1558.1	1561.7	1567.9	1574.2	1579.5	1583.9	1584.8	1582.2	1582.2	1584.8
30°	1531.5	1530.6	1535.0	1541.2	1546.6	1551.9	1556.4	1559.9	1556.4	1556.4	1553.7
32.5°	1502.1	1502.1	1503.9	1466.5	1359.8	1224.6	1227.3	1149.0	1094.8	1026.3	1117.0
35°	937.4	682.1	586.1	496.3	433.1	392.2	391.3	378.0	371.7	367.3	366.4
37.5°	354.0	355.7	359.3	361.1	363.7	365.5	366.4	366.4	366.4	366.4	365.5
40°	353.1	356.6	359.3	362.0	364.6	366.4	366.4	367.3	368.2	368.2	368.2
42.5°	354.0	357.5	361.1	363.7	365.5	366.4	367.3	368.2	368.2	368.2	368.2
45°	353.1	354.9	354.9	355.7	355.7	355.7	356.6	356.6	355.7	354.9	356.6
47.5°	339.7	339.7	337.1	336.2	335.3	333.5	334.4	333.5	332.6	331.7	333.5
50°	316.6	313.1	311.3	309.5	308.6	306.8	307.7	306.8	305.9	304.2	306.8
52.5°	289.0	288.2	284.6	282.8	281.9	282.8	281.0	280.1	279.3	278.4	279.3
55°	262.4	258.8	257.9	256.1	255.2	256.1	255.2	254.4	253.5	252.6	253.5
57.5°	238.3	235.7	234.8	233.0	233.0	233.0	233.0	232.1	231.2	230.3	231.2
60°	215.2	213.4	212.6	212.6	211.7	211.7	211.7	210.8	209.9	209.9	210.8
62.5°	195.7	195.7	193.0	192.1	192.1	193.0	192.1	191.2	190.3	189.4	191.2
65°	175.2	171.6	170.8	169.0	167.2	168.1	167.2	166.3	165.4	164.5	166.3
67.5°	150.3	149.4	145.9	144.1	143.2	144.1	143.2	142.3	141.4	140.5	142.3
70°	126.3	126.3	122.7	121.8	121.0	121.0	120.1	120.1	119.2	118.3	120.1
72.5°	104.9	104.9	104.1	102.3	101.4	100.5	99.6	98.7	98.7	99.6	99.6
75°	87.2	85.4	81.8	82.7	81.8	80.9	80.9	80.0	79.2	80.9	80.0
77.5°	68.5	67.6	64.9	65.8	64.9	64.0	64.0	63.1	62.3	63.1	63.1
80°	51.6	51.6	50.7	49.8	49.8	48.9	48.0	48.0	47.1	48.0	48.0
82.5°	37.4	37.4	36.5	35.6	34.7	34.7	33.8	33.8	33.8	33.8	33.8
85°	24.0	23.1	23.1	21.3	21.3	21.3	20.5	20.5	20.5	20.5	20.5
87.5°	11.6	11.6	10.7	10.7	9.8	8.9	8.9	8.0	8.0	8.9	8.9
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: P1213424

CATALOG NUMBER: 4SNLED-LD5-43SL-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°	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6
2.5°	2008.2	2019.7	2009.9	2014.4	2015.3	2030.4	2029.5	2033.1	2026.8	2019.7	2009.9
5°	2110.4	2105.1	2098.0	2114.9	2106.0	2116.7	2120.2	2127.3	2127.3	2126.4	2118.4
7.5°	1979.7	1968.1	1977.0	1983.3	1985.9	1978.8	1993.0	2009.0	2022.4	2030.4	2031.3
10°	1877.4	1881.0	1880.1	1882.8	1889.0	1888.1	1897.0	1905.9	1909.4	1914.8	1916.6
12.5°	1829.4	1828.5	1830.3	1836.5	1840.1	1839.2	1848.1	1853.4	1855.2	1856.1	1855.2
15°	1791.2	1784.9	1789.4	1790.3	1792.9	1792.9	1803.6	1811.6	1815.2	1816.9	1815.2
17.5°	1719.1	1704.0	1718.2	1718.2	1728.0	1726.2	1743.1	1756.5	1763.6	1768.9	1768.9
20°	1648.0	1640.9	1646.2	1644.4	1651.5	1650.6	1661.3	1670.2	1676.4	1680.9	1686.2
22.5°	1619.5	1621.3	1613.3	1614.2	1614.2	1613.3	1618.6	1623.1	1624.8	1627.5	1625.7
25°	1600.8	1602.6	1599.9	1595.5	1593.7	1595.5	1598.2	1603.5	1604.4	1602.6	1596.4
27.5°	1582.2	1576.8	1581.3	1573.3	1571.5	1575.0	1578.6	1579.5	1580.4	1580.4	1575.0
30°	1553.7	1549.3	1553.7	1550.1	1546.6	1550.1	1552.8	1552.8	1554.6	1555.5	1549.3
32.5°	1085.9	1094.8	1238.9	1326.0	1448.8	1511.0	1522.6	1522.6	1524.4	1524.4	1519.0
35°	370.0	370.9	401.1	434.9	506.9	595.9	712.4	772.8	977.4	1222.0	1458.5
37.5°	365.5	364.6	363.7	362.9	362.0	361.1	359.3	358.4	363.7	431.3	585.2
40°	367.3	366.4	364.6	363.7	362.9	361.1	360.2	358.4	356.6	354.9	353.1
42.5°	367.3	366.4	365.5	364.6	363.7	362.9	361.1	359.3	357.5	354.9	352.2
45°	354.9	354.9	355.7	355.7	356.6	356.6	356.6	355.7	355.7	354.9	351.3
47.5°	331.7	331.7	334.4	334.4	336.2	338.0	338.0	339.7	342.4	344.2	345.1
50°	305.0	305.0	307.7	308.6	310.4	313.1	315.7	316.6	319.3	322.8	326.4
52.5°	278.4	278.4	281.0	281.0	282.8	285.5	288.2	289.0	292.6	296.2	300.6
55°	253.5	253.5	255.2	256.1	257.0	258.8	261.5	261.5	265.0	267.7	272.1
57.5°	231.2	233.0	233.0	233.0	233.9	235.7	237.5	237.5	240.1	242.8	246.4
60°	209.9	211.7	211.7	211.7	212.6	213.4	215.2	215.2	217.0	218.8	222.3
62.5°	190.3	192.1	192.1	193.0	193.0	193.9	195.7	194.8	196.5	197.4	200.1
65°	165.4	167.2	168.1	169.0	169.9	171.6	174.3	173.4	176.1	177.9	180.5
67.5°	141.4	143.2	143.2	144.1	145.0	146.7	148.5	148.5	151.2	153.0	156.5
70°	119.2	121.0	121.0	121.8	122.7	124.5	126.3	125.4	128.1	129.8	132.5
72.5°	98.7	100.5	100.5	101.4	101.4	103.2	104.9	106.7	106.7	108.5	110.3
75°	80.0	80.9	81.8	81.8	82.7	83.6	85.4	87.2	88.0	88.9	90.7
77.5°	63.1	64.0	64.9	64.9	65.8	66.7	67.6	71.1	72.9	73.8	73.8
80°	48.0	48.9	48.9	48.9	49.8	50.7	52.5	52.5	56.0	56.0	56.9
82.5°	33.8	34.7	34.7	34.7	35.6	37.4	38.2	39.1	40.9	41.8	41.8
85°	20.5	21.3	21.3	21.3	22.2	23.1	24.9	25.8	26.7	26.7	27.6
87.5°	8.0	8.9	9.8	9.8	10.7	11.6	12.5	13.3	14.2	14.2	15.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6
2.5°	1999.3	2005.5	1999.3	2002.8	2007.3	1999.3	1980.6	1973.5	1970.8	1960.1	1953.0
5°	2110.4	2110.4	2107.8	2114.9	2114.0	2101.5	2082.0	2073.1	2064.2	2052.6	2043.7
7.5°	2031.3	2038.4	2042.8	2070.4	2088.2	2090.0	2102.4	2105.1	2108.7	2105.1	2099.8
10°	1917.4	1914.8	1927.2	1953.0	1968.1	1976.1	2000.2	2011.7	2021.5	2041.1	2061.5
12.5°	1853.4	1857.0	1862.3	1881.0	1895.2	1891.7	1901.4	1909.4	1921.0	1940.6	1969.9
15°	1810.7	1814.3	1819.6	1833.8	1842.7	1838.3	1843.6	1849.0	1857.0	1866.8	1884.5
17.5°	1764.5	1770.7	1776.9	1792.0	1800.1	1799.2	1803.6	1805.4	1808.1	1814.3	1826.7
20°	1692.4	1712.0	1724.5	1744.9	1756.5	1754.7	1762.7	1765.4	1768.9	1775.1	1780.5
22.5°	1626.6	1632.0	1638.2	1660.4	1680.0	1704.0	1709.3	1716.5	1725.3	1731.6	1736.9
25°	1589.3	1585.7	1588.4	1603.5	1614.2	1616.0	1624.0	1647.1	1671.1	1681.8	1694.2
27.5°	1567.0	1563.5	1562.6	1569.7	1571.5	1567.0	1565.3	1572.4	1590.2	1608.0	1645.3
30°	1543.0	1538.6	1535.0	1541.2	1543.9	1537.7	1526.1	1519.9	1530.6	1535.0	1550.1
32.5°	1514.6	1510.1	1508.3	1511.9	1513.7	1508.3	1495.9	1488.8	1487.0	1483.4	1487.0
35°	1482.6	1478.1	1475.4	1476.3	1479.9	1475.4	1464.8	1455.9	1451.4	1441.6	1434.5
37.5°	764.0	1082.3	1405.2	1439.0	1442.5	1441.6	1431.0	1421.2	1416.7	1405.2	1401.6
40°	349.5	390.4	586.1	765.7	1104.6	1403.4	1393.6	1383.8	1375.8	1372.3	1358.9
42.5°	348.6	349.5	350.4	346.0	428.7	730.2	1077.9	1345.6	1340.3	1331.4	1321.6
45°	348.6	344.2	347.7	342.4	344.2	343.3	427.8	690.1	1228.2	1283.3	1278.9
47.5°	345.1	342.4	346.0	341.5	336.2	338.8	335.3	339.7	530.1	899.1	1231.8
50°	329.1	330.8	337.1	336.2	331.7	335.3	329.1	334.4	329.9	362.0	697.3
52.5°	305.0	308.6	314.8	320.2	321.9	326.4	324.6	326.4	322.8	323.7	324.6
55°	276.6	281.0	286.4	294.4	297.9	305.0	310.4	313.1	317.5	316.6	309.5
57.5°	249.9	254.4	258.8	266.8	274.8	278.4	288.2	293.5	305.0	302.4	300.6
60°	225.0	228.6	233.0	234.8	244.6	250.8	259.7	265.0	280.1	283.7	289.0
62.5°	202.8	204.6	208.1	210.8	217.0	223.2	227.7	236.6	244.6	256.1	264.1
65°	182.3	184.1	186.8	188.5	189.4	198.3	201.0	210.8	213.4	225.9	233.0
67.5°	159.2	162.8	166.3	168.1	169.9	175.2	177.0	181.4	187.7	193.0	201.9
70°	135.2	137.8	141.4	144.1	147.6	151.2	156.5	159.2	163.6	167.2	174.3
72.5°	112.9	115.6	117.4	120.1	122.7	125.4	129.8	136.1	139.6	145.9	147.6
75°	91.6	94.3	96.1	97.8	100.5	102.3	104.1	110.3	113.8	119.2	124.5
77.5°	75.6	75.6	77.4	82.7	81.8	81.8	83.6	87.2	89.8	93.4	98.7
80°	58.7	59.6	60.5	64.9	65.8	66.7	65.8	68.5	71.1	72.0	75.6
82.5°	43.6	44.5	44.5	47.1	49.8	49.8	49.8	50.7	53.4	54.3	56.0
85°	29.3	30.2	31.1	32.0	33.8	34.7	35.6	35.6	37.4	38.2	39.1
87.5°	16.0	17.8	18.7	19.6	20.5	21.3	22.2	23.1	24.0	24.9	25.8
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):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6	1940.6
2.5°	1950.4	1945.9	1943.2	1936.1	1934.3	1922.8	1924.6	1922.8	1922.8	1925.4	1934.3
5°	2034.0	2012.6	2007.3	1992.2	1979.7	1958.4	1945.0	1937.9	1927.2	1922.8	1929.0
7.5°	2090.9	2074.9	2061.5	2048.2	2030.4	2005.5	1986.8	1965.5	1947.7	1930.8	1926.3
10°	2081.1	2098.9	2098.9	2090.9	2074.0	2049.1	2026.8	2000.2	1969.0	1942.3	1926.3
12.5°	1998.4	2029.5	2054.4	2073.1	2090.0	2073.1	2050.8	2029.5	1994.8	1955.7	1926.3
15°	1907.7	1939.7	1970.8	2009.9	2050.8	2067.7	2066.9	2042.0	2010.8	1969.9	1929.0
17.5°	1843.6	1865.9	1882.8	1925.4	1975.3	2018.8	2048.2	2050.0	2019.7	1983.3	1929.9
20°	1795.6	1811.6	1825.8	1849.9	1893.4	1946.8	2001.0	2031.3	2025.9	1985.9	1932.6
22.5°	1752.0	1763.6	1775.1	1792.9	1827.6	1862.3	1925.4	1987.7	2014.4	1981.5	1929.9
25°	1708.4	1720.9	1729.8	1742.2	1769.8	1798.3	1842.7	1920.1	1979.7	1977.9	1924.6
27.5°	1656.9	1673.8	1684.4	1701.3	1720.0	1741.4	1771.6	1844.5	1929.9	1960.1	1910.3
30°	1594.6	1619.5	1635.5	1654.2	1670.2	1688.9	1712.9	1757.4	1863.2	1925.4	1895.2
32.5°	1504.8	1549.3	1584.8	1602.6	1620.4	1636.4	1657.8	1695.1	1781.4	1878.3	1878.3
35°	1440.8	1461.2	1493.2	1544.8	1567.0	1583.0	1602.6	1632.0	1687.1	1822.3	1850.7
37.5°	1390.9	1399.0	1415.0	1465.7	1507.5	1533.2	1552.8	1571.5	1625.7	1745.8	1815.2
40°	1353.6	1350.9	1349.1	1373.2	1432.7	1473.7	1495.9	1514.6	1556.4	1654.2	1768.0
42.5°	1310.0	1307.3	1298.5	1304.7	1334.0	1402.5	1436.3	1456.8	1491.4	1558.1	1716.5
45°	1264.7	1260.2	1256.7	1250.4	1261.1	1299.3	1368.7	1399.0	1418.5	1478.1	1651.5
47.5°	1218.4	1212.2	1207.7	1202.4	1196.2	1214.0	1279.8	1334.0	1367.8	1405.2	1573.3
50°	1152.6	1160.6	1155.3	1149.0	1143.7	1140.2	1167.7	1256.7	1298.5	1328.7	1478.1
52.5°	543.4	1056.6	1101.0	1094.8	1087.7	1081.5	1087.7	1155.3	1230.9	1254.9	1363.4
55°	309.5	470.5	979.2	1035.2	1029.0	1020.1	1014.8	1037.9	1150.8	1182.8	1258.4
57.5°	297.9	298.8	432.2	932.9	967.6	959.6	953.4	958.7	1054.8	1109.0	1166.8
60°	288.2	288.2	288.2	412.7	892.0	894.7	886.7	877.8	919.6	1026.3	1074.3
62.5°	266.8	272.1	274.8	274.8	407.3	826.2	818.2	815.5	817.3	926.7	981.8
65°	239.2	251.7	257.0	260.6	260.6	427.8	747.9	743.5	737.3	779.1	888.5
67.5°	209.0	221.4	233.0	240.1	241.0	249.0	446.5	669.7	660.8	661.7	788.9
70°	177.9	188.5	201.0	211.7	221.4	225.9	233.0	555.8	585.2	572.7	675.9
72.5°	153.9	158.3	167.2	177.9	189.4	200.1	206.3	221.4	507.8	494.5	514.0
75°	128.1	131.6	137.8	145.0	153.9	166.3	177.0	187.7	269.5	414.4	411.8
77.5°	99.6	105.8	112.9	117.4	121.8	130.7	145.0	155.6	166.3	280.1	329.9
80°	76.5	80.9	84.5	88.9	94.3	100.5	105.8	118.3	130.7	140.5	252.6
82.5°	56.9	59.6	62.3	64.0	65.8	69.4	79.2	83.6	91.6	100.5	119.2
85°	40.0	41.8	43.6	44.5	45.4	46.2	49.8	50.7	58.7	60.5	72.0
87.5°	25.8	26.7	28.5	29.3	29.3	30.2	31.1	31.1	31.1	29.3	35.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1940.6	1940.6
2.5°	1941.5	1955.7
5°	1938.8	1957.5
7.5°	1931.7	1949.5
10°	1921.0	1942.3
12.5°	1909.4	1929.9
15°	1899.7	1914.8
17.5°	1889.0	1897.9
20°	1874.8	1881.9
22.5°	1860.5	1857.0
25°	1844.5	1836.5
27.5°	1824.1	1808.9
30°	1805.4	1778.7
32.5°	1787.6	1744.0
35°	1763.6	1708.4
37.5°	1738.7	1672.0
40°	1709.3	1630.2
42.5°	1678.2	1588.4
45°	1639.1	1548.4
47.5°	1604.4	1500.3
50°	1556.4	1448.8
52.5°	1497.7	1400.7
55°	1428.3	1342.0
57.5°	1353.6	1280.7
60°	1273.6	1210.4
62.5°	1176.6	1137.5
65°	1062.8	1053.9
67.5°	914.3	961.4
70°	749.7	855.6
72.5°	627.0	743.5
75°	514.0	618.1
77.5°	407.3	484.7
80°	254.4	354.9
82.5°	170.8	233.0
85°	103.2	111.2
87.5°	40.0	40.9
90°	0.0	0.0

(END OF REPORT)