

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: P1213468

Luminaire Tested: 4SNLED-LD5-55HL-LC-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33518)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-55HL-LC-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

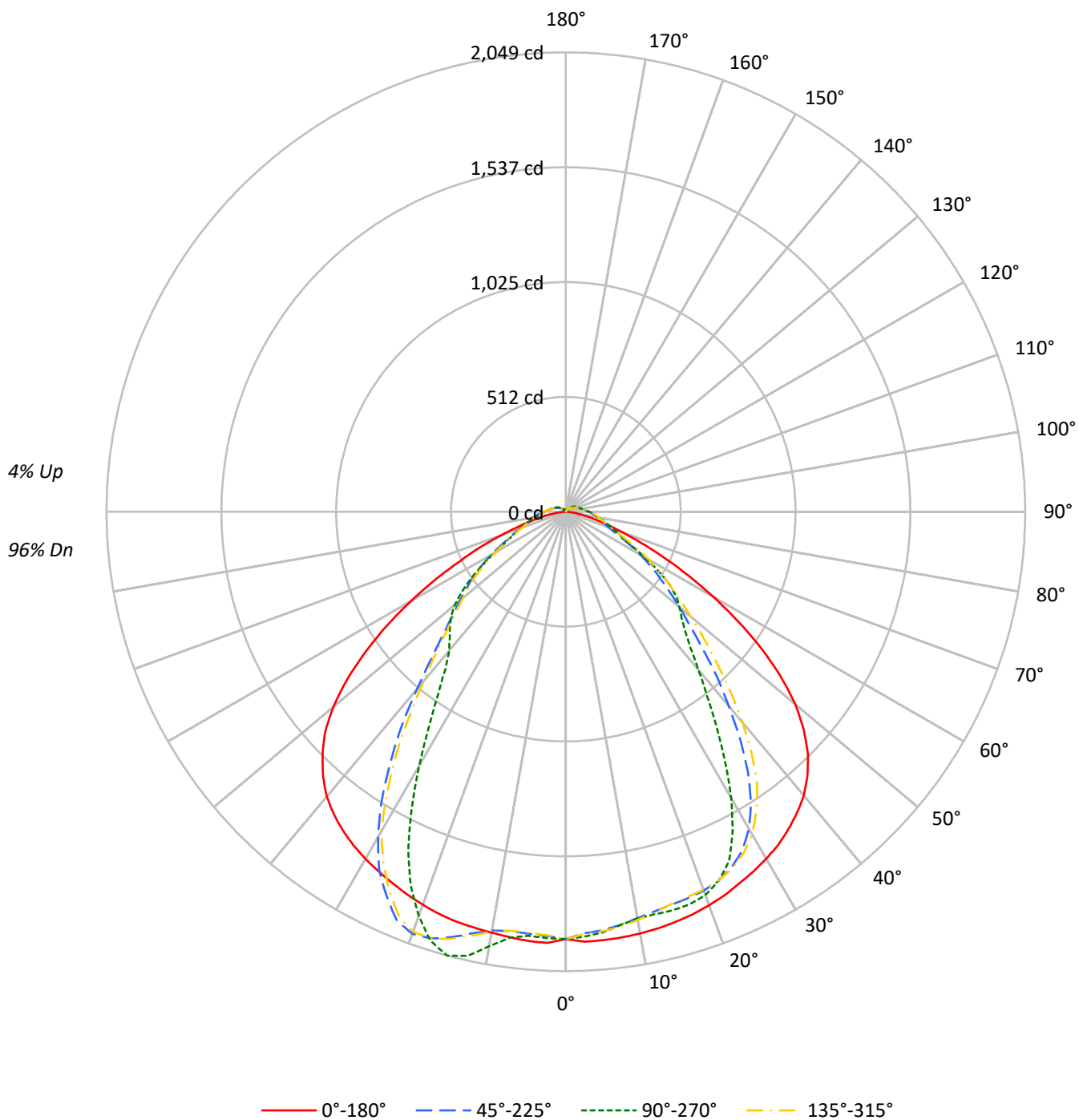
Lumens per Lamp: N/A
Luminaire Lumens: 4544.0 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 39
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	50	30	10
RCR																				
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	98	98	96
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	84	84	82
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	73	73	71
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	63	63	61
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	56	56	54
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	49	49	47
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	44	44	42
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	40	40	38
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	36	36	34
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	33	33	31
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15403	15403	15403	15403
5°	15515	14792	15547	14908
10°	15587	14177	15555	15139
15°	15708	13988	15700	15575
20°	15881	13766	15864	14511
25°	16077	13059	16068	12618
30°	16379	11318	16388	10027
35°	16700	9152	16748	7745
40°	16983	7369	17054	6492
45°	16922	6242	17010	6078
50°	16193	5747	16420	5619
55°	14368	5166	14726	4696
60°	11654	3954	12272	3626
65°	8663	3024	9333	2869
70°	5892	2611	6641	2496
75°	3853	2356	4488	2228
80°	2490	2197	2917	2021
85°	1278	2191	1681	2001

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 17010 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	4.0
10°-20°	538.7	11.9
20°-30°	819.0	18.0
30°-40°	878.6	19.3
40°-50°	762.5	16.8
50°-60°	565.1	12.4
60°-70°	323.8	7.1
70°-80°	179.3	3.9
80°-90°	109.2	2.4
90°-100°	71.0	1.6
100°-110°	47.5	1.0
110°-120°	32.1	0.7
120°-130°	19.7	0.4
130°-140°	10.4	0.2
140°-150°	4.7	0.1
150°-160°	1.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1538.7	33.9
0°-40°	2417.3	53.2
0°-60°	3744.9	82.4
0°-90°	4357.2	95.9
90°-120°	150.7	3.3
90°-150°	185.5	4.1
90°-180°	187.0	4.1
0°-180°	4544.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1906	1906	1906	1906	1906	
5°	1918	1883	1922	1898	1918	183
15°	1893	1840	1892	2049	1893	536
25°	1829	1721	1828	1663	1829	846
35°	1730	1172	1735	991	1730	1083
45°	1527	751	1535	732	1527	1169
55°	1065	563	1092	512	1065	945
65°	483	286	521	271	483	487
75°	138	181	160	171	138	157
85°	19	125	25	114	19	25
90°	0	104	2	96	0	1
95°	1	86	0	82	1	1
105°	1	64	1	61	1	1
115°	1	52	1	47	1	1
125°	1	39	1	32	1	1
135°	1	25	1	21	1	1
145°	1	15	2	12	1	1
155°	2	7	2	6	2	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1
2.5°	1919.9	1915.0	1913.0	1909.0	1912.0	1923.8	1915.9	1903.1	1904.1	1881.5	1893.3
5°	1917.9	1912.0	1909.0	1905.1	1907.1	1917.9	1910.0	1897.2	1896.2	1873.6	1884.4
7.5°	1915.0	1909.0	1904.1	1901.2	1902.2	1911.0	1901.2	1886.4	1883.4	1858.8	1868.7
10°	1910.0	1906.1	1899.2	1894.3	1893.3	1903.1	1887.4	1872.6	1865.7	1840.1	1850.0
12.5°	1903.1	1897.2	1890.3	1881.5	1880.5	1886.4	1873.6	1852.9	1846.0	1825.4	1836.2
15°	1893.3	1886.4	1878.5	1868.7	1863.8	1867.7	1851.9	1833.2	1832.3	1814.5	1829.3
17.5°	1882.5	1872.6	1863.8	1850.0	1843.1	1846.0	1833.2	1816.5	1818.5	1807.6	1824.4
20°	1867.7	1856.9	1843.1	1829.3	1819.5	1824.4	1815.5	1802.7	1805.7	1797.8	1812.6
22.5°	1851.0	1836.2	1819.5	1803.7	1795.8	1802.7	1795.8	1785.0	1786.0	1781.1	1789.9
25°	1829.3	1812.6	1792.9	1773.2	1769.2	1774.2	1770.2	1761.4	1757.4	1749.5	1753.5
27.5°	1809.6	1790.9	1766.3	1745.6	1738.7	1748.6	1739.7	1724.9	1714.1	1703.3	1695.4
30°	1787.0	1764.3	1736.7	1713.1	1707.2	1711.2	1698.4	1675.7	1647.2	1633.4	1611.7
32.5°	1762.3	1732.8	1698.4	1671.8	1667.8	1664.9	1641.2	1608.8	1564.5	1536.9	1503.4
35°	1729.9	1697.4	1656.0	1623.5	1617.6	1600.9	1562.5	1519.2	1462.1	1414.8	1357.7
37.5°	1693.4	1655.0	1611.7	1568.4	1551.7	1518.2	1464.0	1418.7	1332.1	1275.0	1206.1
40°	1652.1	1605.8	1552.6	1500.5	1472.9	1418.7	1356.7	1289.8	1206.1	1129.3	1071.2
42.5°	1595.0	1545.7	1482.7	1424.6	1377.4	1305.5	1232.7	1138.1	1061.3	996.4	937.3
45°	1527.0	1468.0	1395.1	1325.2	1265.1	1179.5	1093.8	999.3	935.3	859.5	819.1
47.5°	1439.4	1375.4	1297.6	1219.9	1141.1	1046.6	957.0	866.4	802.4	748.3	718.7
50°	1336.0	1277.0	1191.3	1098.8	1012.1	913.7	824.1	756.1	694.1	660.6	638.0
52.5°	1208.0	1152.9	1065.3	964.9	881.2	784.7	703.0	647.8	603.5	578.9	571.0
55°	1065.3	1017.0	930.4	836.9	751.2	662.6	600.6	552.3	523.8	509.0	510.0
57.5°	912.7	875.3	793.5	709.9	629.1	562.2	506.1	467.7	446.0	445.0	448.0
60°	760.1	732.5	661.6	589.7	518.9	464.7	423.4	396.8	383.0	384.0	383.0
62.5°	614.4	588.8	537.6	478.5	422.4	385.9	348.5	337.7	325.9	324.9	324.9
65°	483.4	463.7	422.4	380.0	337.7	314.1	295.4	282.6	273.7	271.7	272.7
67.5°	363.3	355.4	326.9	298.3	271.7	257.0	241.2	238.3	231.4	231.4	233.3
70°	270.8	264.8	249.1	232.4	221.5	211.7	203.8	203.8	202.8	201.8	206.8
72.5°	195.9	196.9	192.0	179.2	178.2	176.2	174.3	177.2	178.2	181.2	187.1
75°	137.8	140.8	140.8	138.8	142.8	147.7	150.6	155.6	161.5	165.4	172.3
77.5°	97.5	97.5	102.4	108.3	116.2	125.0	132.9	139.8	147.7	152.6	158.5
80°	63.0	66.0	73.8	84.7	95.5	107.3	118.1	127.0	134.9	142.8	146.7
82.5°	37.4	42.3	52.2	66.0	79.7	94.5	105.3	116.2	125.0	132.9	135.9
85°	18.7	25.6	37.4	52.2	66.9	82.7	96.5	106.3	116.2	123.1	127.0
87.5°	5.9	13.8	26.6	40.4	56.1	71.9	86.6	97.5	106.3	112.2	116.2
90°	0.0	6.9	18.7	33.5	48.2	64.0	77.8	89.6	98.5	103.4	106.3
92.5°	0.0	3.9	14.8	27.6	41.4	57.1	70.9	81.7	89.6	94.5	96.5
95°	1.0	3.0	10.8	22.6	36.4	51.2	64.0	73.8	81.7	86.6	87.6
97.5°	1.0	2.0	8.9	18.7	31.5	45.3	58.1	67.9	73.8	78.8	79.7
100°	1.0	2.0	6.9	16.7	27.6	40.4	52.2	61.0	67.9	71.9	72.9
102.5°	1.0	1.0	5.9	13.8	24.6	35.4	46.3	55.1	61.0	65.0	66.9
105°	1.0	1.0	4.9	11.8	21.7	31.5	41.4	50.2	55.1	59.1	61.0
107.5°	1.0	1.0	3.9	9.8	18.7	27.6	37.4	44.3	50.2	54.2	56.1
110°	1.0	1.0	3.0	8.9	15.8	24.6	32.5	39.4	45.3	49.2	51.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.0	1.0	3.0	7.9	13.8	21.7	28.6	35.4	40.4	44.3	47.3
115°	1.0	1.0	3.0	6.9	12.8	18.7	25.6	31.5	36.4	40.4	43.3
117.5°	1.0	1.0	3.0	5.9	10.8	16.7	22.6	28.6	32.5	36.4	39.4
120°	1.0	1.0	2.0	4.9	9.8	14.8	19.7	24.6	29.5	33.5	36.4
122.5°	1.0	1.0	2.0	4.9	7.9	12.8	17.7	21.7	26.6	29.5	32.5
125°	1.0	1.0	2.0	3.9	6.9	11.8	15.8	19.7	22.6	26.6	29.5
127.5°	1.0	1.0	2.0	3.9	5.9	9.8	13.8	17.7	20.7	23.6	25.6
130°	1.0	1.0	2.0	3.0	4.9	7.9	11.8	14.8	18.7	20.7	22.6
132.5°	1.0	1.0	1.0	3.0	3.9	5.9	8.9	12.8	15.8	18.7	19.7
135°	1.0	1.0	1.0	2.0	3.9	4.9	6.9	9.8	12.8	15.8	17.7
137.5°	1.0	1.0	1.0	2.0	3.0	4.9	5.9	7.9	10.8	12.8	15.8
140°	1.0	1.0	1.0	2.0	3.0	3.9	4.9	6.9	8.9	10.8	12.8
142.5°	1.0	1.0	1.0	2.0	2.0	3.0	3.9	5.9	6.9	8.9	10.8
145°	1.0	1.0	1.0	2.0	2.0	3.0	3.9	4.9	5.9	6.9	8.9
147.5°	1.0	1.0	1.0	2.0	2.0	2.0	3.0	3.9	4.9	5.9	6.9
150°	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.9	4.9	5.9
152.5°	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.9	4.9
155°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.9	3.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1
2.5°	1889.4	1891.3	1903.1	1902.2	1900.2	1898.2	1898.2	1896.2	1898.2	1903.1	1901.2
5°	1879.5	1882.5	1891.3	1890.3	1888.4	1887.4	1886.4	1883.4	1885.4	1892.3	1890.3
7.5°	1861.8	1864.7	1872.6	1868.7	1865.7	1867.7	1862.8	1859.8	1863.8	1870.6	1869.7
10°	1843.1	1845.1	1854.9	1852.9	1848.0	1849.0	1844.1	1842.1	1847.0	1851.0	1851.9
12.5°	1830.3	1837.2	1846.0	1845.1	1844.1	1845.1	1840.1	1838.2	1841.1	1845.1	1844.1
15°	1827.3	1836.2	1846.0	1846.0	1847.0	1848.0	1843.1	1840.1	1843.1	1846.0	1845.1
17.5°	1824.4	1835.2	1844.1	1843.1	1844.1	1846.0	1838.2	1836.2	1840.1	1844.1	1842.1
20°	1814.5	1824.4	1830.3	1828.3	1828.3	1829.3	1819.5	1819.5	1825.4	1828.3	1829.3
22.5°	1787.0	1798.8	1798.8	1793.9	1793.9	1789.9	1787.0	1781.1	1787.9	1792.9	1796.8
25°	1745.6	1750.5	1744.6	1733.8	1727.9	1723.0	1709.2	1721.0	1721.0	1735.8	1740.7
27.5°	1687.5	1676.7	1660.0	1637.3	1632.4	1616.6	1607.8	1610.7	1615.6	1636.3	1652.1
30°	1592.0	1559.5	1531.0	1521.1	1499.5	1483.7	1468.0	1475.8	1484.7	1496.5	1529.0
32.5°	1466.0	1434.5	1388.2	1371.5	1348.8	1329.1	1310.4	1322.3	1338.0	1345.9	1381.3
35°	1321.3	1283.9	1241.5	1213.0	1189.3	1178.5	1154.9	1171.6	1188.4	1194.3	1224.8
37.5°	1167.7	1129.3	1091.9	1067.3	1044.6	1037.7	1022.0	1033.8	1046.6	1055.4	1081.0
40°	1022.0	986.5	958.0	941.2	925.5	919.6	913.7	918.6	928.4	935.3	955.0
42.5°	896.9	868.4	848.7	838.8	828.0	820.1	821.1	823.1	828.0	842.8	851.6
45°	787.6	770.9	758.1	756.1	749.2	748.3	747.3	751.2	754.2	763.0	769.9
47.5°	700.0	693.1	690.2	694.1	697.1	693.1	695.1	700.0	705.9	705.9	704.9
50°	631.1	633.1	637.0	645.9	651.8	653.7	655.7	661.6	662.6	664.6	661.6
52.5°	575.0	576.9	587.8	601.6	608.5	611.4	615.3	621.3	621.3	623.2	619.3
55°	517.9	520.8	531.7	545.4	551.3	555.3	559.2	563.2	566.1	570.1	567.1
57.5°	454.9	463.7	470.6	474.6	478.5	481.4	484.4	485.4	491.3	492.3	497.2
60°	387.9	389.9	396.8	395.8	392.8	400.7	396.8	403.7	410.6	419.4	420.4
62.5°	323.9	324.9	329.8	327.9	331.8	330.8	333.8	333.8	338.7	342.6	347.5
65°	273.7	274.7	278.6	278.6	277.6	280.6	283.6	285.5	285.5	288.5	292.4
67.5°	236.3	239.2	243.2	245.2	247.1	247.1	250.1	251.1	253.0	254.0	256.0
70°	210.7	214.6	218.6	220.5	221.5	223.5	224.5	224.5	226.4	227.4	229.4
72.5°	192.0	195.9	198.9	198.9	200.8	201.8	201.8	202.8	203.8	205.8	207.7
75°	176.2	179.2	181.2	180.2	180.2	180.2	181.2	181.2	183.1	185.1	187.1
77.5°	161.5	164.4	164.4	162.5	162.5	162.5	162.5	163.4	164.4	166.4	168.4
80°	150.6	150.6	149.7	149.7	147.7	146.7	146.7	147.7	147.7	149.7	152.6
82.5°	138.8	138.8	137.8	136.9	135.9	134.9	134.9	135.9	136.9	137.8	139.8
85°	128.0	128.0	126.0	126.0	125.0	125.0	125.0	125.0	126.0	127.0	129.0
87.5°	117.2	116.2	115.2	114.2	114.2	114.2	114.2	114.2	115.2	117.2	118.1
90°	106.3	105.3	104.4	104.4	103.4	103.4	104.4	104.4	105.3	106.3	107.3
92.5°	96.5	95.5	94.5	94.5	93.5	93.5	94.5	93.5	95.5	95.5	96.5
95°	87.6	86.6	85.7	85.7	85.7	85.7	85.7	85.7	86.6	86.6	87.6
97.5°	79.7	78.8	77.8	77.8	78.8	77.8	78.8	78.8	78.8	79.7	80.7
100°	72.9	71.9	71.9	72.9	71.9	71.9	72.9	72.9	72.9	72.9	73.8
102.5°	66.9	66.9	66.9	66.9	66.9	66.9	67.9	67.9	67.9	67.9	68.9
105°	61.0	62.0	62.0	62.0	63.0	63.0	63.0	64.0	64.0	64.0	64.0
107.5°	57.1	58.1	58.1	59.1	59.1	60.1	60.1	60.1	60.1	61.0	61.0
110°	53.2	54.2	55.1	56.1	56.1	57.1	57.1	57.1	57.1	57.1	57.1



TEST NUMBER: P1213468

CATALOG NUMBER: 4SNLED-LD5-55HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	49.2	50.2	51.2	53.2	54.2	54.2	54.2	54.2	55.1	55.1	54.2
115°	45.3	47.3	48.2	50.2	51.2	51.2	52.2	52.2	52.2	52.2	51.2
117.5°	41.4	44.3	45.3	47.3	48.2	48.2	49.2	49.2	49.2	49.2	48.2
120°	38.4	40.4	42.3	43.3	44.3	45.3	45.3	46.3	46.3	46.3	45.3
122.5°	35.4	37.4	39.4	40.4	41.4	42.3	42.3	42.3	42.3	42.3	42.3
125°	31.5	33.5	35.4	36.4	37.4	38.4	38.4	39.4	39.4	39.4	38.4
127.5°	28.6	30.5	31.5	33.5	34.5	34.5	35.4	35.4	35.4	35.4	34.5
130°	24.6	26.6	28.6	29.5	30.5	30.5	31.5	31.5	31.5	31.5	31.5
132.5°	21.7	23.6	24.6	26.6	26.6	27.6	27.6	28.6	28.6	28.6	27.6
135°	19.7	20.7	21.7	23.6	23.6	24.6	24.6	24.6	24.6	24.6	24.6
137.5°	17.7	18.7	19.7	20.7	20.7	21.7	21.7	21.7	21.7	22.6	21.7
140°	14.8	16.7	17.7	17.7	18.7	18.7	18.7	19.7	19.7	19.7	18.7
142.5°	12.8	13.8	14.8	15.8	16.7	16.7	16.7	16.7	17.7	16.7	16.7
145°	9.8	11.8	12.8	13.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
147.5°	7.9	8.9	10.8	11.8	11.8	12.8	12.8	12.8	12.8	12.8	12.8
150°	6.9	6.9	8.9	9.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
152.5°	4.9	5.9	6.9	7.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
155°	4.9	4.9	5.9	5.9	6.9	6.9	6.9	6.9	7.9	6.9	6.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213468

CATALOG NUMBER: 4SNLED-LD5-55HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1
2.5°	1898.2	1897.2	1901.2	1897.2	1877.5	1885.4	1882.5	1893.3	1894.3	1897.2	1907.1
5°	1888.4	1888.4	1893.3	1889.4	1870.6	1878.5	1877.5	1888.4	1890.3	1892.3	1903.1
7.5°	1868.7	1869.7	1876.6	1873.6	1853.9	1865.7	1864.7	1877.5	1881.5	1885.4	1895.3
10°	1850.0	1849.0	1856.9	1853.9	1835.2	1849.0	1848.0	1860.8	1866.7	1873.6	1885.4
12.5°	1840.1	1837.2	1840.1	1837.2	1816.5	1827.3	1828.3	1843.1	1850.0	1858.8	1872.6
15°	1840.1	1835.2	1835.2	1829.3	1805.7	1812.6	1813.5	1823.4	1832.3	1841.1	1857.8
17.5°	1838.2	1833.2	1832.3	1827.3	1801.7	1801.7	1800.7	1807.6	1812.6	1821.4	1839.1
20°	1827.3	1825.4	1824.4	1821.4	1797.8	1793.9	1791.9	1791.9	1794.8	1797.8	1815.5
22.5°	1798.8	1800.7	1802.7	1804.7	1786.0	1779.1	1780.1	1778.1	1775.1	1775.1	1789.9
25°	1745.6	1755.5	1763.3	1772.2	1761.4	1756.4	1762.3	1759.4	1754.5	1750.5	1763.3
27.5°	1660.9	1681.6	1698.4	1720.0	1721.0	1717.1	1732.8	1730.8	1729.9	1724.0	1733.8
30°	1543.8	1576.3	1598.9	1630.4	1657.0	1660.9	1687.5	1691.5	1695.4	1692.4	1702.3
32.5°	1402.0	1446.3	1484.7	1533.9	1559.5	1582.2	1619.6	1635.3	1651.1	1656.0	1666.8
35°	1247.4	1297.6	1342.9	1397.1	1437.4	1486.7	1532.0	1555.6	1591.0	1604.8	1620.6
37.5°	1100.7	1148.0	1192.3	1246.4	1311.4	1362.6	1418.7	1471.9	1520.1	1539.8	1563.5
40°	970.8	1009.2	1051.5	1098.8	1157.8	1224.8	1285.8	1359.7	1416.8	1456.2	1490.6
42.5°	872.3	891.0	927.4	969.8	1017.0	1085.0	1147.0	1229.7	1298.6	1354.7	1411.8
45°	784.7	793.5	820.1	842.8	891.0	951.1	1017.0	1097.8	1169.6	1241.5	1310.4
47.5°	709.9	720.7	733.5	747.3	781.7	831.9	889.1	961.9	1033.8	1117.5	1196.2
50°	659.6	662.6	664.6	670.5	691.2	725.6	771.9	833.9	902.8	992.4	1076.1
52.5°	615.3	615.3	609.4	606.5	614.4	636.0	662.6	706.9	777.8	860.5	949.1
55°	568.1	559.2	557.3	547.4	549.4	559.2	572.0	606.5	664.6	735.5	821.1
57.5°	502.1	498.2	498.2	494.2	486.4	491.3	494.2	518.9	560.2	621.3	696.1
60°	426.3	424.3	429.3	430.2	423.4	426.3	425.3	440.1	469.6	518.9	580.9
62.5°	350.5	359.4	360.3	364.3	360.3	359.4	364.3	377.1	391.9	429.3	477.5
65°	294.4	299.3	300.3	305.2	303.2	303.2	307.2	317.0	325.9	351.5	388.9
67.5°	258.0	256.0	257.0	259.9	257.0	256.0	258.9	264.8	271.7	287.5	314.1
70°	229.4	227.4	227.4	227.4	223.5	220.5	221.5	223.5	226.4	235.3	252.0
72.5°	207.7	207.7	204.8	201.8	198.9	196.9	194.9	193.0	192.0	194.9	203.8
75°	188.0	189.0	188.0	185.1	181.2	177.2	173.3	169.3	164.4	162.5	163.4
77.5°	170.3	171.3	172.3	171.3	167.4	162.5	156.5	150.6	143.7	136.9	132.9
80°	154.6	156.5	157.5	156.5	153.6	149.7	142.8	135.9	126.0	117.2	107.3
82.5°	140.8	143.7	144.7	144.7	142.8	138.8	130.9	123.1	112.2	100.4	87.6
85°	130.0	131.9	133.9	133.9	132.9	129.0	121.1	112.2	101.4	87.6	73.8
87.5°	119.1	120.1	122.1	124.1	122.1	118.1	111.3	101.4	90.6	76.8	61.0
90°	108.3	109.3	111.3	113.2	112.2	108.3	102.4	93.5	81.7	66.9	51.2
92.5°	97.5	99.4	100.4	101.4	102.4	99.4	94.5	85.7	73.8	59.1	44.3
95°	89.6	89.6	91.6	92.5	93.5	90.6	86.6	77.8	66.9	53.2	38.4
97.5°	81.7	81.7	83.7	83.7	84.7	82.7	78.8	70.9	60.1	47.3	32.5
100°	73.8	74.8	75.8	76.8	76.8	75.8	71.9	64.0	54.2	42.3	28.6
102.5°	68.9	68.9	69.9	69.9	70.9	68.9	65.0	58.1	48.2	37.4	24.6
105°	64.0	64.0	65.0	65.0	64.0	62.0	58.1	52.2	43.3	32.5	21.7
107.5°	60.1	60.1	60.1	60.1	59.1	57.1	53.2	46.3	38.4	29.5	19.7
110°	57.1	56.1	56.1	55.1	54.2	51.2	47.3	41.4	34.5	25.6	16.7

TEST NUMBER: P1213468

CATALOG NUMBER: 4SNLED-LD5-55HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	54.2	53.2	52.2	51.2	49.2	46.3	42.3	37.4	30.5	22.6	14.8
115°	51.2	50.2	49.2	47.3	45.3	42.3	38.4	33.5	26.6	19.7	12.8
117.5°	48.2	47.3	45.3	43.3	41.4	38.4	34.5	29.5	23.6	17.7	11.8
120°	44.3	43.3	42.3	40.4	38.4	34.5	30.5	26.6	20.7	15.8	9.8
122.5°	41.4	40.4	38.4	37.4	34.5	31.5	27.6	23.6	18.7	13.8	8.9
125°	37.4	36.4	35.4	33.5	31.5	27.6	24.6	20.7	16.7	11.8	6.9
127.5°	34.5	33.5	31.5	29.5	27.6	24.6	21.7	18.7	14.8	9.8	6.9
130°	30.5	29.5	28.6	26.6	24.6	21.7	19.7	15.8	12.8	8.9	5.9
132.5°	26.6	26.6	25.6	23.6	21.7	19.7	16.7	13.8	10.8	7.9	4.9
135°	24.6	23.6	22.6	20.7	19.7	16.7	14.8	11.8	8.9	6.9	3.9
137.5°	21.7	20.7	19.7	18.7	16.7	14.8	12.8	9.8	7.9	5.9	3.9
140°	18.7	17.7	17.7	15.8	14.8	12.8	10.8	8.9	6.9	4.9	3.0
142.5°	16.7	15.8	14.8	13.8	12.8	10.8	8.9	6.9	5.9	3.9	3.0
145°	14.8	13.8	12.8	11.8	10.8	8.9	7.9	5.9	4.9	3.9	3.0
147.5°	11.8	11.8	10.8	9.8	8.9	7.9	6.9	5.9	3.9	3.0	2.0
150°	9.8	9.8	8.9	7.9	7.9	6.9	5.9	4.9	3.9	3.0	2.0
152.5°	8.9	7.9	7.9	6.9	6.9	5.9	4.9	3.9	3.0	3.0	2.0
155°	6.9	6.9	6.9	5.9	5.9	4.9	3.9	3.9	3.0	2.0	2.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213468

CATALOG NUMBER: 4SNLED-LD5-55HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1
2.5°	1909.0	1897.2	1907.1	1924.8	1922.8	1920.9	1918.9	1922.8	1935.6	1928.7	1917.9
5°	1906.1	1894.3	1905.1	1921.8	1920.9	1917.9	1915.9	1919.9	1932.7	1925.8	1914.0
7.5°	1900.2	1889.4	1897.2	1914.0	1914.0	1912.0	1910.0	1914.0	1925.8	1919.9	1908.1
10°	1890.3	1882.5	1890.3	1906.1	1907.1	1903.1	1901.2	1906.1	1917.9	1915.0	1905.1
12.5°	1882.5	1874.6	1883.4	1899.2	1900.2	1896.2	1893.3	1899.2	1915.0	1916.9	1914.0
15°	1871.6	1864.7	1875.6	1892.3	1892.3	1889.4	1889.4	1897.2	1918.9	1927.8	1932.7
17.5°	1855.9	1851.0	1863.8	1880.5	1881.5	1879.5	1880.5	1896.2	1924.8	1946.5	1960.2
20°	1836.2	1834.2	1848.0	1865.7	1868.7	1869.7	1874.6	1898.2	1937.6	1967.1	1980.9
22.5°	1812.6	1813.5	1829.3	1848.0	1851.9	1854.9	1864.7	1898.2	1947.4	1978.9	1984.9
25°	1786.0	1788.9	1805.7	1828.3	1833.2	1839.1	1855.9	1899.2	1950.4	1971.1	1961.2
27.5°	1757.4	1763.3	1785.0	1808.6	1814.5	1824.4	1846.0	1893.3	1936.6	1937.6	1901.2
30°	1727.9	1734.8	1760.4	1787.9	1797.8	1807.6	1834.2	1879.5	1903.1	1871.6	1807.6
32.5°	1694.4	1704.3	1729.9	1763.3	1775.1	1787.9	1814.5	1852.9	1844.1	1776.1	1684.6
35°	1652.1	1665.9	1695.4	1734.8	1745.6	1762.3	1781.1	1789.9	1750.5	1654.0	1550.7
37.5°	1599.9	1620.6	1655.0	1700.3	1712.1	1723.0	1727.9	1703.3	1624.5	1520.1	1412.8
40°	1539.8	1571.3	1608.8	1659.0	1670.8	1670.8	1653.1	1600.9	1501.4	1364.6	1245.5
42.5°	1467.0	1505.4	1552.6	1602.9	1614.7	1600.9	1558.5	1467.0	1353.8	1201.2	1075.1
45°	1378.4	1429.6	1482.7	1534.9	1540.8	1510.3	1434.5	1318.3	1178.5	1036.7	916.6
47.5°	1273.0	1340.0	1398.1	1457.1	1449.3	1398.1	1296.7	1164.7	1017.0	883.1	786.7
50°	1154.9	1233.6	1298.6	1354.7	1338.0	1267.1	1148.0	1010.2	863.5	749.2	669.5
52.5°	1028.9	1119.4	1184.4	1229.7	1207.1	1122.4	991.4	859.5	739.4	635.0	581.9
55°	897.9	989.5	1056.4	1091.9	1062.3	970.8	841.8	721.7	608.5	540.5	509.0
57.5°	770.9	856.6	919.6	948.1	910.7	819.1	700.0	598.6	516.9	459.8	444.0
60°	648.8	718.7	778.8	800.4	760.1	675.4	573.0	492.3	432.2	392.8	385.0
62.5°	535.6	592.7	640.0	656.7	617.3	551.3	462.7	402.7	360.3	340.7	330.8
65°	442.1	475.5	523.8	520.8	497.2	436.2	371.2	328.8	301.3	288.5	282.6
67.5°	347.5	378.1	408.6	412.5	383.0	340.7	298.3	267.8	253.0	246.1	243.2
70°	268.8	291.4	310.1	305.2	289.5	262.9	236.3	219.6	213.6	210.7	210.7
72.5°	208.7	220.5	229.4	223.5	213.6	199.9	187.1	180.2	181.2	183.1	185.1
75°	161.5	164.4	166.4	160.5	158.5	149.7	148.7	149.7	155.6	161.5	164.4
77.5°	124.1	120.1	117.2	111.3	112.2	111.3	116.2	124.1	132.9	141.8	149.7
80°	95.5	86.6	79.7	73.8	76.8	81.7	91.6	103.4	115.2	125.0	134.9
82.5°	73.8	61.0	51.2	45.3	51.2	59.1	71.9	86.6	100.4	111.3	122.1
85°	57.1	42.3	30.5	24.6	30.5	42.3	56.1	72.9	87.6	99.4	110.3
87.5°	44.3	30.5	16.7	9.8	16.7	29.5	45.3	61.0	75.8	89.6	100.4
90°	35.4	20.7	7.9	2.0	8.9	20.7	35.4	51.2	66.0	80.7	91.6
92.5°	28.6	14.8	3.9	0.0	4.9	15.8	29.5	44.3	59.1	72.9	83.7
95°	23.6	11.8	3.0	0.0	3.9	11.8	23.6	38.4	52.2	66.0	74.8
97.5°	19.7	8.9	2.0	0.0	2.0	9.8	19.7	32.5	46.3	59.1	67.9
100°	16.7	7.9	2.0	0.0	2.0	7.9	16.7	28.6	40.4	52.2	61.0
102.5°	13.8	5.9	1.0	1.0	1.0	5.9	14.8	24.6	35.4	46.3	55.1
105°	12.8	4.9	1.0	1.0	1.0	4.9	12.8	21.7	31.5	41.4	49.2
107.5°	10.8	3.9	1.0	1.0	1.0	3.9	10.8	18.7	28.6	37.4	44.3
110°	8.9	3.9	1.0	1.0	1.0	3.9	8.9	16.7	24.6	32.5	39.4



TEST NUMBER: P1213468

CATALOG NUMBER: 4SNLED-LD5-55HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	7.9	3.0	1.0	1.0	1.0	3.0	7.9	14.8	21.7	29.5	35.4
115°	6.9	3.0	1.0	1.0	1.0	3.0	6.9	12.8	18.7	25.6	31.5
117.5°	5.9	3.0	1.0	1.0	1.0	2.0	5.9	10.8	16.7	22.6	28.6
120°	4.9	2.0	1.0	1.0	1.0	2.0	4.9	9.8	14.8	19.7	24.6
122.5°	4.9	2.0	1.0	1.0	1.0	2.0	3.9	7.9	12.8	16.7	21.7
125°	3.9	2.0	1.0	1.0	1.0	1.0	3.9	6.9	10.8	14.8	18.7
127.5°	3.9	2.0	1.0	1.0	1.0	1.0	3.0	5.9	8.9	12.8	16.7
130°	3.0	2.0	1.0	1.0	1.0	1.0	2.0	4.9	7.9	10.8	13.8
132.5°	3.0	2.0	1.0	1.0	1.0	1.0	2.0	3.9	5.9	8.9	11.8
135°	3.0	1.0	1.0	1.0	1.0	1.0	1.0	3.0	4.9	6.9	8.9
137.5°	2.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.9	4.9	7.9
140°	2.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	3.9	5.9
142.5°	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	4.9
145°	2.0	1.0	1.0	2.0	2.0	1.0	1.0	2.0	2.0	3.0	3.9
147.5°	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	3.0
150°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0
152.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
155°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213468

CATALOG NUMBER: 4SNLED-LD5-55HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1
2.5°	1915.9	1893.3	1905.1	1901.2	1905.1	1915.0	1914.0	1911.0	1913.0	1908.1	1903.1
5°	1912.0	1889.4	1901.2	1896.2	1901.2	1911.0	1909.0	1906.1	1909.0	1903.1	1898.2
7.5°	1907.1	1886.4	1900.2	1899.2	1908.1	1920.9	1921.8	1921.8	1928.7	1919.9	1915.9
10°	1907.1	1896.2	1915.0	1921.8	1944.5	1961.2	1963.2	1967.1	1978.9	1977.0	1967.1
12.5°	1927.8	1925.8	1953.4	1970.1	1990.8	2014.4	2027.2	2031.1	2039.0	2033.1	2029.2
15°	1954.3	1964.2	1994.7	2013.4	2036.1	2053.8	2056.7	2058.7	2064.6	2055.7	2048.9
17.5°	1989.8	1995.7	2020.3	2028.2	2042.9	2045.9	2042.0	2032.1	2032.1	2012.4	2006.5
20°	2006.5	2003.6	2013.4	2000.6	1994.7	1977.0	1960.2	1941.5	1940.6	1919.9	1917.9
22.5°	1991.7	1972.1	1951.4	1919.9	1906.1	1880.5	1857.8	1847.0	1840.1	1813.5	1806.7
25°	1939.6	1891.3	1860.8	1823.4	1789.9	1760.4	1738.7	1716.1	1694.4	1672.8	1662.9
27.5°	1849.0	1803.7	1754.5	1702.3	1656.0	1610.7	1574.3	1551.7	1531.0	1502.4	1487.7
30°	1737.7	1674.7	1620.6	1570.4	1494.5	1439.4	1408.9	1363.6	1347.9	1335.1	1307.5
32.5°	1606.8	1531.0	1457.1	1389.2	1311.4	1260.2	1219.9	1186.4	1176.5	1143.1	1135.2
35°	1462.1	1362.6	1278.9	1212.0	1155.9	1093.8	1060.4	1037.7	1018.0	995.4	991.4
37.5°	1291.7	1202.1	1107.6	1048.5	1004.2	951.1	925.5	909.7	900.9	884.1	881.2
40°	1120.4	1030.8	965.8	906.8	879.2	850.7	831.9	825.1	821.1	815.2	809.3
42.5°	964.9	886.1	839.8	800.4	788.6	774.8	769.9	773.9	769.9	768.0	767.0
45°	832.9	772.9	740.4	728.6	725.6	721.7	725.6	732.5	733.5	731.5	731.5
47.5°	712.8	684.3	670.5	672.4	677.4	680.3	687.2	696.1	698.0	693.1	695.1
50°	634.1	617.3	614.4	622.2	633.1	637.0	644.9	651.8	650.8	648.8	646.9
52.5°	560.2	555.3	563.2	571.0	582.9	584.8	587.8	590.7	589.7	585.8	583.8
55°	498.2	502.1	509.0	512.0	520.8	519.8	520.8	520.8	516.9	514.9	512.0
57.5°	442.1	443.0	447.0	448.0	452.9	450.9	449.9	448.0	442.1	441.1	438.1
60°	385.0	383.0	391.9	385.0	388.9	385.0	384.0	379.1	373.1	372.2	370.2
62.5°	330.8	326.9	332.8	329.8	331.8	327.9	325.9	320.0	315.1	314.1	313.1
65°	282.6	280.6	286.5	285.5	287.5	282.6	280.6	276.7	272.7	271.7	270.8
67.5°	242.2	247.1	250.1	250.1	252.0	251.1	246.1	245.2	244.2	240.2	240.2
70°	212.7	215.6	221.5	222.5	221.5	223.5	219.6	218.6	217.6	215.6	214.6
72.5°	189.0	193.0	198.9	199.9	198.9	198.9	196.9	195.9	195.9	193.0	193.0
75°	170.3	175.3	180.2	180.2	180.2	178.2	176.2	176.2	174.3	173.3	171.3
77.5°	154.6	160.5	164.4	163.4	162.5	160.5	160.5	157.5	154.6	154.6	152.6
80°	142.8	146.7	149.7	148.7	147.7	144.7	143.7	140.8	138.8	135.9	135.9
82.5°	130.0	134.9	136.9	135.9	133.9	130.9	130.0	128.0	126.0	125.0	123.1
85°	119.1	124.1	125.0	123.1	121.1	119.1	118.1	117.2	116.2	114.2	114.2
87.5°	108.3	113.2	113.2	112.2	110.3	109.3	108.3	107.3	106.3	105.3	104.4
90°	99.4	103.4	103.4	102.4	101.4	100.4	99.4	98.5	97.5	96.5	96.5
92.5°	90.6	94.5	94.5	93.5	92.5	91.6	91.6	90.6	89.6	88.6	87.6
95°	82.7	86.6	86.6	86.6	85.7	84.7	84.7	83.7	82.7	82.7	81.7
97.5°	74.8	78.8	78.8	78.8	77.8	76.8	76.8	75.8	75.8	75.8	74.8
100°	67.9	70.9	71.9	71.9	70.9	70.9	70.9	69.9	69.9	69.9	68.9
102.5°	61.0	64.0	66.0	66.0	66.0	65.0	65.0	65.0	65.0	65.0	64.0
105°	55.1	58.1	60.1	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
107.5°	50.2	53.2	55.1	56.1	57.1	57.1	58.1	58.1	58.1	58.1	58.1
110°	45.3	48.2	51.2	52.2	53.2	54.2	54.2	55.1	54.2	54.2	54.2

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CATALOG NUMBER: 4SNLED-LD5-55HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	40.4	44.3	46.3	48.2	49.2	50.2	51.2	51.2	51.2	51.2	51.2
115°	36.4	40.4	42.3	44.3	46.3	47.3	47.3	48.2	48.2	48.2	47.3
117.5°	32.5	36.4	38.4	40.4	41.4	43.3	44.3	44.3	44.3	44.3	43.3
120°	29.5	32.5	34.5	36.4	38.4	39.4	40.4	40.4	40.4	40.4	40.4
122.5°	25.6	28.6	31.5	33.5	34.5	35.4	36.4	36.4	36.4	36.4	36.4
125°	22.6	25.6	27.6	29.5	30.5	32.5	32.5	32.5	32.5	32.5	32.5
127.5°	19.7	22.6	24.6	26.6	27.6	28.6	29.5	29.5	29.5	29.5	29.5
130°	16.7	19.7	21.7	23.6	24.6	25.6	25.6	26.6	26.6	26.6	26.6
132.5°	14.8	16.7	18.7	20.7	21.7	22.6	22.6	23.6	23.6	23.6	23.6
135°	11.8	14.8	15.8	17.7	18.7	19.7	19.7	20.7	20.7	20.7	20.7
137.5°	9.8	11.8	13.8	15.8	16.7	16.7	17.7	17.7	18.7	18.7	18.7
140°	7.9	8.9	11.8	12.8	13.8	14.8	15.8	15.8	15.8	15.8	15.8
142.5°	5.9	7.9	8.9	10.8	11.8	12.8	13.8	13.8	13.8	13.8	13.8
145°	4.9	5.9	6.9	8.9	9.8	10.8	11.8	11.8	11.8	11.8	11.8
147.5°	3.9	4.9	5.9	6.9	7.9	8.9	9.8	9.8	9.8	9.8	9.8
150°	3.0	3.9	4.9	4.9	5.9	6.9	7.9	8.9	8.9	8.9	8.9
152.5°	3.0	3.0	3.9	3.9	4.9	5.9	6.9	6.9	6.9	6.9	6.9
155°	2.0	3.0	3.0	3.0	3.9	3.9	4.9	5.9	5.9	5.9	5.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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-LD5-55HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1
2.5°	1906.1	1910.0	1908.1	1905.1	1904.1	1909.0	1904.1	1881.5	1890.3	1891.3	1898.2
5°	1903.1	1906.1	1904.1	1902.2	1899.2	1905.1	1899.2	1875.6	1884.4	1885.4	1892.3
7.5°	1922.8	1923.8	1923.8	1918.9	1911.0	1914.0	1906.1	1879.5	1884.4	1884.4	1889.4
10°	1972.1	1974.0	1977.0	1964.2	1954.3	1946.5	1935.6	1903.1	1902.2	1894.3	1894.3
12.5°	2036.1	2031.1	2026.2	2020.3	2012.4	2002.6	1986.8	1948.4	1935.6	1922.8	1910.0
15°	2054.8	2052.8	2051.8	2048.9	2043.9	2041.0	2029.2	1990.8	1972.1	1956.3	1933.7
17.5°	2005.5	2009.5	2022.3	2023.3	2029.2	2041.0	2039.0	2012.4	1995.7	1988.8	1961.2
20°	1916.9	1917.9	1933.7	1940.6	1966.2	1985.8	2000.6	1997.7	1993.7	2001.6	1980.9
22.5°	1810.6	1817.5	1834.2	1845.1	1869.7	1892.3	1915.9	1928.7	1949.4	1981.9	1978.0
25°	1665.9	1674.7	1698.4	1716.1	1750.5	1785.0	1816.5	1839.1	1863.8	1925.8	1946.5
27.5°	1492.6	1506.4	1536.9	1554.6	1602.9	1638.3	1683.6	1727.9	1762.3	1833.2	1875.6
30°	1310.4	1322.3	1354.7	1379.4	1420.7	1469.0	1526.1	1589.1	1646.2	1718.0	1771.2
32.5°	1140.1	1152.9	1179.5	1201.2	1247.4	1287.8	1350.8	1428.6	1481.8	1581.2	1652.1
35°	991.4	1003.3	1022.0	1040.7	1079.1	1120.4	1174.6	1250.4	1318.3	1421.7	1511.3
37.5°	887.1	889.1	899.9	910.7	939.3	970.8	1013.1	1080.1	1143.1	1254.3	1352.8
40°	812.3	812.3	818.2	821.1	833.9	852.6	879.2	931.4	983.6	1068.2	1188.4
42.5°	766.0	764.0	764.0	765.0	764.0	772.9	788.6	813.2	859.5	929.4	1022.9
45°	731.5	727.6	724.6	717.7	713.8	713.8	714.8	723.6	750.2	795.5	871.3
47.5°	693.1	692.1	687.2	679.3	672.4	667.5	659.6	656.7	664.6	690.2	741.4
50°	648.8	643.9	639.0	633.1	625.2	620.3	605.5	606.5	599.6	611.4	638.0
52.5°	583.8	579.9	577.9	573.0	570.1	568.1	556.3	544.5	541.5	543.5	553.3
55°	512.0	513.9	506.1	510.0	509.0	500.2	495.2	486.4	483.4	482.4	487.4
57.5°	437.1	439.1	434.2	438.1	438.1	433.2	430.2	430.2	423.4	417.5	424.3
60°	369.2	365.3	368.2	373.1	373.1	370.2	368.2	368.2	363.3	361.3	366.3
62.5°	314.1	310.1	313.1	318.0	319.0	317.0	315.1	315.1	309.1	309.1	313.1
65°	271.7	272.7	271.7	275.7	275.7	276.7	274.7	272.7	265.8	268.8	267.8
67.5°	241.2	240.2	240.2	244.2	243.2	245.2	243.2	240.2	235.3	231.4	230.4
70°	215.6	214.6	214.6	216.6	217.6	217.6	216.6	214.6	207.7	203.8	200.8
72.5°	193.0	192.0	193.0	194.0	194.9	195.9	194.9	193.0	187.1	182.1	177.2
75°	172.3	171.3	174.3	174.3	175.3	175.3	176.2	175.3	170.3	164.4	158.5
77.5°	151.6	152.6	155.6	156.5	158.5	159.5	160.5	160.5	155.6	150.6	142.8
80°	134.9	136.9	138.8	139.8	141.8	144.7	145.7	146.7	142.8	137.8	129.0
82.5°	123.1	124.1	126.0	127.0	130.0	130.9	131.9	133.9	131.9	127.0	117.2
85°	113.2	114.2	116.2	116.2	118.1	120.1	121.1	122.1	121.1	116.2	106.3
87.5°	104.4	105.3	106.3	107.3	108.3	109.3	110.3	111.3	110.3	105.3	96.5
90°	96.5	96.5	97.5	97.5	98.5	99.4	101.4	101.4	100.4	96.5	87.6
92.5°	87.6	88.6	88.6	89.6	90.6	91.6	92.5	92.5	91.6	87.6	79.7
95°	81.7	81.7	82.7	82.7	83.7	83.7	84.7	84.7	83.7	79.7	71.9
97.5°	74.8	74.8	74.8	74.8	75.8	75.8	76.8	76.8	75.8	71.9	65.0
100°	68.9	68.9	68.9	68.9	68.9	69.9	69.9	69.9	68.9	65.0	58.1
102.5°	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	62.0	59.1	52.2
105°	61.0	61.0	61.0	60.1	60.1	60.1	59.1	59.1	56.1	53.2	47.3
107.5°	57.1	57.1	57.1	56.1	56.1	55.1	54.2	54.2	51.2	48.2	42.3
110°	54.2	54.2	54.2	53.2	52.2	51.2	50.2	49.2	46.3	42.3	37.4

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CATALOG NUMBER: 4SNLED-LD5-55HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	51.2	51.2	50.2	50.2	49.2	48.2	46.3	45.3	42.3	38.4	33.5
115°	47.3	47.3	47.3	46.3	45.3	44.3	43.3	41.4	38.4	34.5	29.5
117.5°	43.3	43.3	43.3	42.3	41.4	40.4	39.4	37.4	34.5	30.5	26.6
120°	39.4	39.4	39.4	38.4	37.4	36.4	35.4	33.5	30.5	27.6	22.6
122.5°	36.4	36.4	35.4	34.5	33.5	32.5	31.5	29.5	27.6	23.6	19.7
125°	32.5	32.5	31.5	31.5	30.5	29.5	28.6	26.6	23.6	20.7	17.7
127.5°	29.5	28.6	28.6	28.6	27.6	26.6	24.6	23.6	20.7	17.7	14.8
130°	25.6	25.6	25.6	24.6	24.6	23.6	21.7	19.7	17.7	15.8	12.8
132.5°	22.6	22.6	22.6	22.6	21.7	20.7	18.7	17.7	15.8	12.8	10.8
135°	20.7	20.7	19.7	19.7	18.7	17.7	16.7	14.8	12.8	10.8	8.9
137.5°	17.7	17.7	17.7	16.7	16.7	15.8	13.8	12.8	11.8	9.8	7.9
140°	15.8	15.8	14.8	14.8	13.8	13.8	12.8	10.8	9.8	7.9	6.9
142.5°	13.8	13.8	12.8	12.8	11.8	11.8	10.8	9.8	7.9	6.9	4.9
145°	11.8	11.8	10.8	10.8	10.8	9.8	8.9	7.9	6.9	5.9	4.9
147.5°	9.8	9.8	9.8	8.9	8.9	7.9	7.9	6.9	5.9	4.9	3.9
150°	8.9	8.9	7.9	7.9	7.9	6.9	5.9	5.9	4.9	3.9	3.0
152.5°	6.9	6.9	6.9	6.9	5.9	5.9	4.9	4.9	3.9	3.0	3.0
155°	5.9	5.9	5.9	4.9	4.9	4.9	3.9	3.9	3.0	3.0	2.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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-LD5-55HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1	1906.1
2.5°	1895.3	1894.3	1903.1	1902.2	1890.3	1908.1	1919.9
5°	1890.3	1889.4	1897.2	1899.2	1886.4	1905.1	1917.9
7.5°	1886.4	1885.4	1894.3	1897.2	1884.4	1901.2	1915.0
10°	1887.4	1882.5	1890.3	1892.3	1880.5	1898.2	1910.0
12.5°	1894.3	1882.5	1885.4	1885.4	1874.6	1890.3	1903.1
15°	1911.0	1886.4	1882.5	1879.5	1865.7	1880.5	1893.3
17.5°	1929.7	1896.2	1882.5	1872.6	1855.9	1868.7	1882.5
20°	1948.4	1907.1	1884.4	1868.7	1846.0	1857.8	1867.7
22.5°	1957.3	1916.9	1886.4	1862.8	1834.2	1840.1	1851.0
25°	1945.5	1913.0	1882.5	1853.9	1819.5	1820.4	1829.3
27.5°	1902.2	1893.3	1873.6	1845.1	1807.6	1802.7	1809.6
30°	1828.3	1852.9	1853.9	1833.2	1793.9	1784.0	1787.0
32.5°	1724.9	1780.1	1812.6	1808.6	1774.2	1760.4	1762.3
35°	1605.8	1674.7	1745.6	1769.2	1744.6	1733.8	1729.9
37.5°	1463.0	1555.6	1650.1	1708.2	1704.3	1697.4	1693.4
40°	1305.5	1416.8	1529.0	1621.6	1650.1	1650.1	1652.1
42.5°	1137.2	1267.1	1390.2	1507.3	1574.3	1589.1	1595.0
45°	974.7	1105.7	1239.6	1374.4	1464.0	1510.3	1527.0
47.5°	827.0	959.0	1086.0	1233.6	1352.8	1412.8	1439.4
50°	701.0	799.5	933.4	1080.1	1210.0	1283.9	1336.0
52.5°	596.6	673.4	790.6	927.4	1058.4	1159.8	1208.0
55°	509.0	561.2	660.6	778.8	903.8	1009.2	1065.3
57.5°	435.2	476.5	544.5	642.9	748.3	852.6	912.7
60°	370.2	398.7	445.0	522.8	612.4	702.0	760.1
62.5°	314.1	332.8	363.3	420.4	490.3	560.2	614.4
65°	270.8	278.6	295.4	330.8	384.0	437.1	483.4
67.5°	228.4	233.3	246.1	267.8	294.4	332.8	363.3
70°	196.9	196.9	197.9	210.7	224.5	249.1	270.8
72.5°	171.3	168.4	162.5	165.4	168.4	182.1	195.9
75°	150.6	143.7	133.9	130.0	128.0	130.0	137.8
77.5°	132.9	123.1	111.3	101.4	93.5	90.6	97.5
80°	118.1	106.3	92.5	79.7	66.9	60.1	63.0
82.5°	106.3	91.6	76.8	62.0	47.3	37.4	37.4
85°	93.5	79.7	64.0	48.2	33.5	20.7	18.7
87.5°	84.7	69.9	53.2	38.4	23.6	10.8	5.9
90°	75.8	61.0	45.3	30.5	16.7	4.9	0.0
92.5°	67.9	54.2	39.4	24.6	11.8	3.0	0.0
95°	61.0	48.2	33.5	20.7	9.8	2.0	1.0
97.5°	54.2	42.3	29.5	16.7	6.9	2.0	1.0
100°	49.2	37.4	25.6	13.8	5.9	1.0	1.0
102.5°	43.3	33.5	21.7	11.8	4.9	1.0	1.0
105°	38.4	29.5	18.7	9.8	3.9	1.0	1.0
107.5°	34.5	25.6	16.7	8.9	3.9	1.0	1.0
110°	30.5	22.6	14.8	7.9	3.0	1.0	1.0

TEST NUMBER: P1213468

CATALOG NUMBER: 4SNLED-LD5-55HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	27.6	19.7	12.8	6.9	2.0	1.0	1.0
115°	23.6	17.7	10.8	5.9	2.0	1.0	1.0
117.5°	20.7	14.8	9.8	4.9	2.0	1.0	1.0
120°	17.7	12.8	7.9	3.9	1.0	1.0	1.0
122.5°	15.8	10.8	6.9	3.9	1.0	1.0	1.0
125°	13.8	9.8	5.9	3.0	1.0	1.0	1.0
127.5°	11.8	7.9	4.9	2.0	1.0	1.0	1.0
130°	9.8	6.9	3.9	2.0	1.0	1.0	1.0
132.5°	7.9	5.9	3.9	2.0	1.0	1.0	1.0
135°	6.9	4.9	3.0	2.0	1.0	1.0	1.0
137.5°	5.9	3.9	2.0	2.0	2.0	1.0	1.0
140°	4.9	3.0	2.0	2.0	2.0	2.0	1.0
142.5°	3.9	3.0	2.0	2.0	2.0	2.0	1.0
145°	3.0	2.0	2.0	2.0	2.0	2.0	1.0
147.5°	3.0	2.0	2.0	2.0	2.0	2.0	1.0
150°	2.0	2.0	2.0	2.0	2.0	2.0	2.0
152.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0
155°	2.0	2.0	2.0	2.0	2.0	2.0	2.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)