

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: P1213475

Luminaire Tested: 4SNLED-LD5-56SL-LN-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33519)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-56SL-LN-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

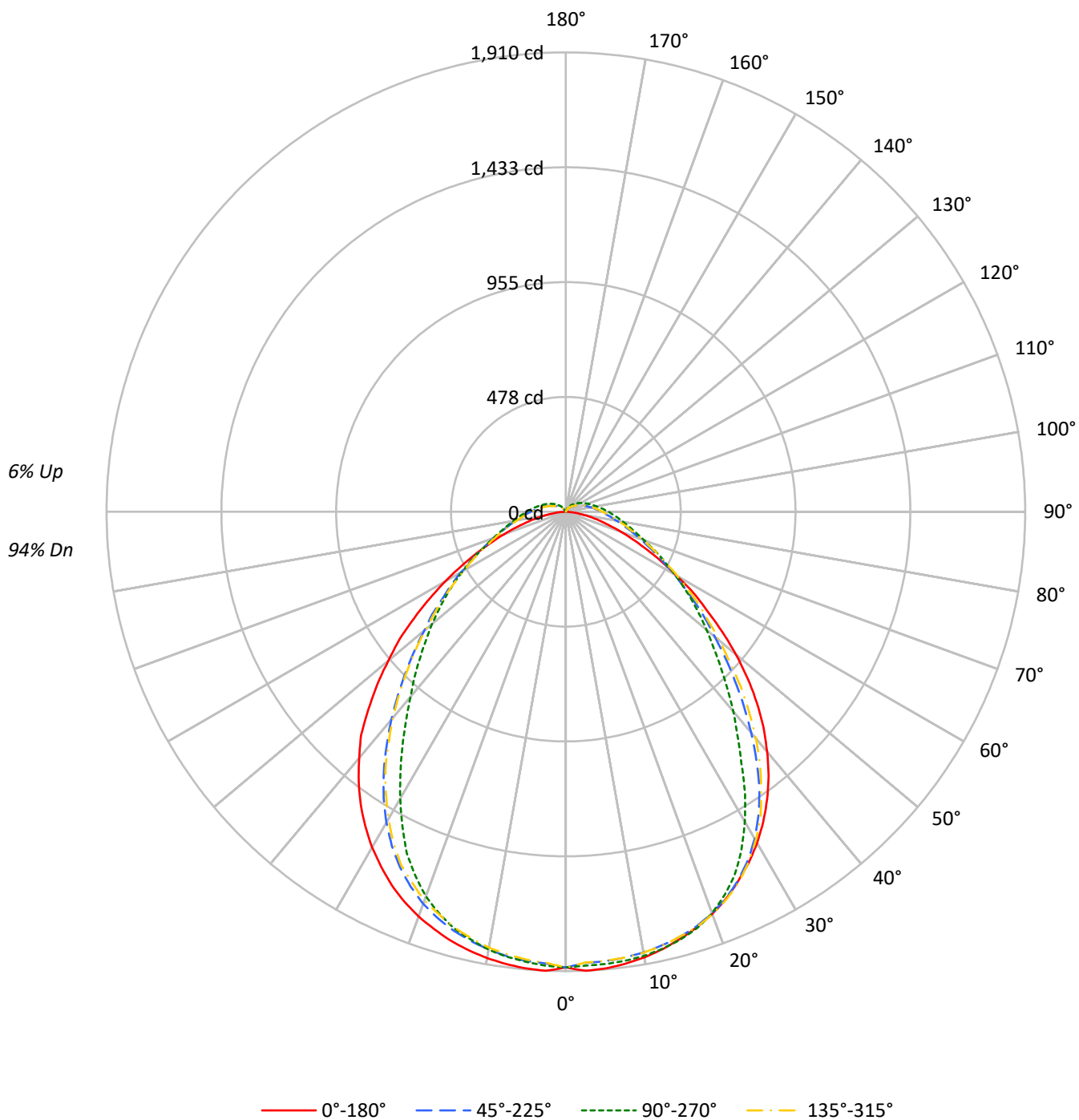
Lumens per Lamp: N/A
Luminaire Lumens: 4795.0 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 46
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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CATALOG NUMBER: 4SNLED-LD5-56SL-LN-UNV-L935-CD1-U

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96
1	107	103	98	95	104	100	96	92	94	91	88	89	87	85	85	83	81
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	67	63	60
4	83	72	63	57	80	70	62	56	67	60	55	64	58	53	61	56	52
5	77	64	56	50	74	63	55	49	60	53	48	58	52	47	55	50	46
6	71	58	50	44	69	57	49	43	55	48	42	52	46	42	50	45	41
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37
8	62	49	41	35	60	48	40	35	46	39	34	44	38	34	43	37	33
9	58	45	37	32	56	44	37	31	42	36	31	41	35	30	40	34	30
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15311	15311	15311	15311
5°	15421	14824	15421	14758
10°	15352	14430	15377	14229
15°	15252	13999	15322	13634
20°	15136	13444	15224	12876
25°	14893	12621	15058	11879
30°	14577	11414	14768	10566
35°	14086	9933	14357	9248
40°	13381	8686	13734	8060
45°	12451	7551	12855	7119
50°	11179	6635	11672	6301
55°	9670	5860	10373	5564
60°	8134	5145	8868	4848
65°	6668	4549	7340	4217
70°	5307	4036	5942	3734
75°	4166	3727	4692	3429
80°	3008	3596	3542	3286
85°	1851	3617	2494	3325

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 12855 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.6	3.7
10°-20°	515.1	10.7
20°-30°	763.4	15.9
30°-40°	848.1	17.7
40°-50°	768.8	16.0
50°-60°	595.7	12.4
60°-70°	404.5	8.4
70°-80°	257.4	5.4
80°-90°	164.5	3.4
90°-100°	110.9	2.3
100°-110°	76.0	1.6
110°-120°	50.7	1.1
120°-130°	31.5	0.7
130°-140°	17.4	0.4
140°-150°	8.2	0.2
150°-160°	3.0	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1458.1	30.4
0°-40°	2306.1	48.1
0°-60°	3670.6	76.6
0°-90°	4497.1	93.8
90°-120°	237.6	5.0
90°-150°	294.8	6.1
90°-180°	298.0	6.2
0°-180°	4795.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1895	1895	1895	1895	1895	
5°	1906	1887	1906	1879	1906	181
15°	1838	1842	1847	1794	1838	519
25°	1695	1663	1713	1565	1695	780
35°	1459	1272	1487	1184	1459	910
45°	1124	909	1160	857	1124	863
55°	717	639	769	607	717	646
65°	372	429	410	398	372	373
75°	149	287	168	264	149	160
85°	27	206	36	190	27	32
90°	0	178	2	163	0	2
95°	1	152	0	142	1	1
105°	1	112	0	105	1	1
115°	1	84	0	78	1	1
125°	1	62	1	55	1	1
135°	1	44	1	35	1	1
145°	1	28	1	20	1	1
155°	1	16	1	7	1	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7
2.5°	1910.3	1908.3	1906.2	1903.0	1906.2	1914.5	1909.3	1897.8	1895.7	1877.0	1885.3
5°	1906.2	1903.0	1901.0	1897.8	1902.0	1912.4	1907.2	1896.8	1893.7	1875.9	1885.3
7.5°	1895.7	1893.7	1890.5	1890.5	1894.7	1905.1	1901.0	1889.5	1887.4	1869.7	1880.1
10°	1881.2	1880.1	1878.0	1878.0	1882.2	1894.7	1889.5	1879.1	1877.0	1860.3	1871.8
12.5°	1862.4	1863.4	1860.3	1860.3	1866.6	1879.1	1874.9	1863.4	1861.4	1846.8	1858.2
15°	1838.4	1839.5	1837.4	1838.4	1844.7	1859.3	1854.1	1843.6	1841.6	1830.1	1839.5
17.5°	1811.3	1812.4	1812.4	1811.3	1818.6	1833.2	1829.0	1819.7	1816.5	1807.2	1818.6
20°	1780.1	1780.1	1780.1	1780.1	1788.4	1803.0	1797.8	1790.5	1784.2	1776.9	1786.3
22.5°	1741.5	1740.5	1741.5	1744.6	1753.0	1764.4	1761.3	1753.0	1743.6	1739.4	1746.7
25°	1694.6	1697.7	1698.8	1701.9	1712.3	1721.7	1718.6	1710.2	1695.6	1692.5	1694.6
27.5°	1645.6	1647.7	1650.8	1649.8	1664.4	1673.8	1667.5	1660.2	1639.4	1636.2	1634.2
30°	1590.4	1593.5	1595.6	1594.6	1606.0	1616.4	1610.2	1600.8	1572.7	1570.6	1553.9
32.5°	1527.9	1531.0	1533.1	1533.1	1549.7	1553.9	1542.4	1528.9	1498.7	1491.4	1476.8
35°	1459.1	1462.2	1463.2	1463.2	1479.9	1478.9	1464.3	1445.5	1412.2	1402.8	1377.8
37.5°	1385.1	1387.2	1388.2	1394.5	1401.7	1395.5	1376.7	1352.8	1327.8	1301.7	1274.6
40°	1301.7	1304.8	1306.9	1311.1	1318.4	1311.1	1284.0	1254.8	1227.7	1198.5	1171.4
42.5°	1216.2	1225.6	1223.5	1222.5	1226.7	1206.9	1186.0	1152.7	1125.6	1095.3	1068.2
45°	1123.5	1122.4	1127.7	1129.7	1128.7	1112.0	1082.8	1052.6	1025.5	994.3	971.3
47.5°	1025.5	1024.5	1028.6	1030.7	1024.5	1006.8	983.8	949.4	926.5	899.4	881.7
50°	922.3	922.3	928.6	922.3	919.2	901.5	882.7	848.3	830.6	806.7	796.2
52.5°	819.2	828.5	822.3	820.2	817.1	799.4	784.8	756.6	742.0	731.6	719.1
55°	717.0	727.4	723.3	720.2	719.1	704.5	691.0	670.1	660.7	653.5	646.2
57.5°	630.5	629.5	627.4	624.3	625.3	613.9	600.3	588.8	584.7	581.5	583.6
60°	530.5	538.8	535.7	536.7	537.8	535.7	524.2	516.9	518.0	519.0	522.1
62.5°	448.1	455.4	460.6	456.5	458.6	461.7	455.4	453.4	457.5	461.7	465.9
65°	372.1	379.4	384.6	383.5	389.8	396.0	395.0	397.1	406.5	411.7	416.9
67.5°	303.3	310.6	317.9	318.9	328.3	337.7	341.8	349.1	359.6	366.9	373.1
70°	243.9	250.1	258.5	263.7	276.2	288.7	296.0	310.6	316.8	327.2	331.4
72.5°	190.7	195.9	207.4	219.9	230.3	246.0	260.5	273.1	282.4	293.9	299.1
75°	149.0	151.1	163.6	178.2	192.8	210.5	226.2	239.7	252.2	263.7	272.0
77.5°	109.4	112.6	124.0	143.8	160.5	179.3	197.0	211.6	225.1	236.6	248.0
80°	76.1	82.3	94.8	114.6	133.4	154.2	170.9	187.6	202.2	213.6	225.1
82.5°	49.0	54.2	71.9	91.7	111.5	132.4	150.1	166.8	182.4	194.9	205.3
85°	27.1	34.4	52.1	73.0	92.8	113.6	132.4	149.0	164.7	176.1	186.6
87.5°	10.4	20.8	37.5	57.3	77.1	96.9	116.7	132.4	148.0	160.5	169.9
90°	0.0	12.5	28.1	47.9	67.7	87.5	106.3	123.0	137.6	149.0	159.5
92.5°	1.0	8.3	21.9	38.6	57.3	76.1	93.8	110.5	125.1	136.5	145.9
95°	1.0	6.3	17.7	33.4	50.0	67.7	84.4	100.1	113.6	125.1	134.4
97.5°	1.0	4.2	14.6	29.2	43.8	61.5	77.1	91.7	104.2	115.7	123.0
100°	1.0	4.2	12.5	25.0	39.6	55.2	69.8	84.4	95.9	105.3	113.6
102.5°	1.0	3.1	10.4	21.9	35.4	49.0	63.6	77.1	87.5	96.9	105.3
105°	1.0	3.1	9.4	18.8	31.3	44.8	57.3	69.8	81.3	89.6	96.9
107.5°	1.0	2.1	8.3	15.6	27.1	40.6	53.2	63.6	74.0	82.3	89.6
110°	1.0	2.1	7.3	14.6	24.0	36.5	47.9	58.4	67.7	76.1	82.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.0	2.1	6.3	13.5	21.9	32.3	43.8	53.2	62.5	69.8	76.1
115°	1.0	2.1	6.3	12.5	19.8	28.1	38.6	49.0	56.3	64.6	69.8
117.5°	1.0	2.1	5.2	10.4	18.8	26.1	35.4	43.8	52.1	59.4	64.6
120°	1.0	2.1	5.2	9.4	16.7	24.0	31.3	39.6	47.9	53.2	58.4
122.5°	1.0	2.1	4.2	9.4	14.6	21.9	28.1	35.4	42.7	49.0	54.2
125°	1.0	2.1	4.2	8.3	13.5	19.8	26.1	31.3	38.6	43.8	49.0
127.5°	1.0	2.1	4.2	7.3	12.5	17.7	24.0	29.2	34.4	39.6	43.8
130°	1.0	2.1	3.1	6.3	11.5	15.6	20.8	27.1	31.3	35.4	39.6
132.5°	1.0	2.1	3.1	6.3	9.4	13.5	18.8	24.0	28.1	32.3	35.4
135°	1.0	2.1	3.1	5.2	8.3	12.5	15.6	20.8	25.0	29.2	32.3
137.5°	1.0	2.1	3.1	5.2	7.3	10.4	13.5	17.7	21.9	25.0	29.2
140°	1.0	2.1	3.1	4.2	6.3	9.4	12.5	14.6	18.8	21.9	25.0
142.5°	1.0	2.1	3.1	4.2	6.3	8.3	10.4	12.5	15.6	18.8	21.9
145°	1.0	2.1	3.1	4.2	5.2	7.3	9.4	11.5	12.5	15.6	17.7
147.5°	1.0	2.1	3.1	4.2	4.2	6.3	8.3	9.4	11.5	12.5	14.6
150°	1.0	2.1	3.1	3.1	4.2	5.2	7.3	8.3	9.4	11.5	12.5
152.5°	1.0	2.1	3.1	3.1	4.2	5.2	6.3	7.3	8.3	9.4	10.4
155°	1.0	2.1	3.1	3.1	3.1	4.2	5.2	6.3	7.3	8.3	9.4
157.5°	2.1	2.1	2.1	3.1	3.1	4.2	4.2	5.2	6.3	6.3	7.3
160°	2.1	2.1	2.1	3.1	3.1	3.1	4.2	4.2	5.2	5.2	6.3
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°	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7
2.5°	1883.2	1886.4	1895.7	1895.7	1893.7	1891.6	1891.6	1888.5	1890.5	1894.7	1892.6
5°	1883.2	1886.4	1895.7	1895.7	1893.7	1891.6	1890.5	1887.4	1890.5	1894.7	1892.6
7.5°	1877.0	1881.2	1890.5	1890.5	1888.5	1887.4	1885.3	1883.2	1886.4	1890.5	1888.5
10°	1868.7	1872.8	1882.2	1882.2	1880.1	1880.1	1877.0	1874.9	1879.1	1882.2	1881.2
12.5°	1856.1	1861.4	1869.7	1868.7	1866.6	1867.6	1864.5	1860.3	1864.5	1867.6	1868.7
15°	1838.4	1844.7	1853.0	1850.9	1847.8	1849.9	1844.7	1841.6	1844.7	1850.9	1849.9
17.5°	1815.5	1819.7	1825.9	1825.9	1822.8	1820.7	1818.6	1815.5	1817.6	1821.8	1822.8
20°	1783.2	1788.4	1791.5	1788.4	1787.4	1784.2	1780.1	1776.9	1781.1	1787.4	1788.4
22.5°	1740.5	1741.5	1748.8	1741.5	1736.3	1735.2	1731.1	1724.8	1731.1	1736.3	1737.3
25°	1687.3	1692.5	1689.4	1676.9	1676.9	1668.5	1666.5	1663.3	1664.4	1673.8	1677.9
27.5°	1619.6	1621.7	1613.3	1602.9	1593.5	1588.3	1581.0	1582.0	1582.0	1594.6	1598.7
30°	1545.6	1534.1	1526.8	1510.1	1502.8	1490.3	1488.3	1488.3	1486.2	1492.4	1511.2
32.5°	1457.0	1441.4	1429.9	1414.3	1401.7	1389.2	1383.0	1386.1	1385.1	1400.7	1407.0
35°	1360.1	1350.7	1326.7	1306.9	1299.6	1280.9	1280.9	1271.5	1277.7	1295.4	1302.7
37.5°	1257.9	1243.3	1223.5	1201.6	1196.4	1181.8	1176.6	1171.4	1185.0	1188.1	1195.4
40°	1153.7	1140.2	1121.4	1100.6	1100.6	1082.8	1082.8	1082.8	1083.9	1090.1	1103.7
42.5°	1054.7	1040.1	1023.4	1008.8	1006.8	993.2	993.2	992.2	994.3	999.5	1012.0
45°	958.8	947.4	929.6	922.3	923.4	908.8	911.9	908.8	913.0	918.2	922.3
47.5°	870.2	862.9	855.6	845.2	842.1	841.0	835.8	831.7	839.0	839.0	845.2
50°	787.9	783.7	779.6	773.3	774.3	770.2	763.9	763.9	769.1	770.2	774.3
52.5°	716.0	710.8	705.6	706.6	707.6	705.6	702.4	699.3	702.4	704.5	709.7
55°	644.1	639.9	645.1	643.0	645.1	643.0	640.9	638.9	644.1	640.9	646.2
57.5°	579.5	583.6	585.7	581.5	584.7	582.6	583.6	580.5	584.7	586.8	585.7
60°	520.1	526.3	523.2	524.2	528.4	526.3	522.1	525.3	529.4	530.5	529.4
62.5°	465.9	473.2	476.3	474.2	475.2	473.2	476.3	472.1	477.3	479.4	476.3
65°	416.9	425.2	427.3	427.3	427.3	425.2	428.3	429.4	431.5	431.5	429.4
67.5°	375.2	382.5	384.6	386.7	384.6	382.5	382.5	383.5	387.7	389.8	387.7
70°	337.7	345.0	346.0	346.0	347.0	349.1	345.0	347.0	350.2	351.2	350.2
72.5°	305.4	312.7	314.7	313.7	314.7	315.8	315.8	313.7	316.8	318.9	318.9
75°	279.3	283.5	285.6	285.6	286.6	287.6	287.6	286.6	288.7	289.7	290.8
77.5°	255.3	258.5	261.6	261.6	262.6	261.6	263.7	263.7	264.7	265.8	266.8
80°	231.4	235.5	237.6	238.7	240.7	241.8	241.8	241.8	242.8	243.9	243.9
82.5°	212.6	215.7	218.9	222.0	222.0	223.0	223.0	223.0	224.1	224.1	225.1
85°	193.8	198.0	201.1	203.2	204.3	205.3	205.3	206.4	206.4	206.4	207.4
87.5°	177.2	182.4	184.5	186.6	187.6	189.7	189.7	189.7	190.7	190.7	190.7
90°	165.7	170.9	173.0	175.1	176.1	177.2	177.2	178.2	178.2	179.3	179.3
92.5°	152.2	157.4	161.5	161.5	162.6	164.7	163.6	163.6	164.7	165.7	165.7
95°	141.7	145.9	149.0	150.1	151.1	151.1	151.1	152.2	151.1	152.2	152.2
97.5°	129.2	133.4	136.5	138.6	139.7	139.7	139.7	140.7	139.7	140.7	140.7
100°	118.8	123.0	126.1	127.1	129.2	129.2	129.2	129.2	129.2	129.2	130.3
102.5°	110.5	114.6	116.7	117.8	118.8	119.9	119.9	119.9	119.9	120.9	120.9
105°	102.1	106.3	108.4	109.4	110.5	111.5	111.5	111.5	112.6	112.6	111.5
107.5°	94.8	98.0	100.1	102.1	103.2	103.2	104.2	104.2	104.2	104.2	104.2
110°	87.5	90.7	93.8	95.9	95.9	96.9	96.9	98.0	98.0	96.9	98.0



TEST NUMBER: P1213475

CATALOG NUMBER: 4SNLED-LD5-56SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	80.2	84.4	86.5	88.6	89.6	90.7	90.7	90.7	90.7	90.7	90.7
115°	74.0	78.2	80.2	82.3	83.4	84.4	84.4	84.4	84.4	84.4	84.4
117.5°	68.8	73.0	75.0	76.1	77.1	78.2	79.2	79.2	79.2	79.2	78.2
120°	63.6	66.7	68.8	70.9	71.9	73.0	73.0	73.0	73.0	73.0	73.0
122.5°	58.4	61.5	63.6	65.7	66.7	67.7	67.7	67.7	67.7	67.7	67.7
125°	53.2	56.3	58.4	60.4	61.5	62.5	62.5	62.5	62.5	62.5	62.5
127.5°	47.9	51.1	54.2	55.2	56.3	57.3	57.3	57.3	58.4	57.3	57.3
130°	42.7	45.9	49.0	50.0	51.1	52.1	53.2	53.2	53.2	53.2	52.1
132.5°	38.6	41.7	43.8	44.8	46.9	46.9	47.9	47.9	47.9	47.9	46.9
135°	35.4	37.5	39.6	40.6	42.7	42.7	42.7	43.8	43.8	42.7	41.7
137.5°	31.3	33.4	35.4	36.5	37.5	38.6	38.6	39.6	38.6	38.6	38.6
140°	29.2	30.2	32.3	33.4	34.4	34.4	34.4	35.4	35.4	34.4	34.4
142.5°	25.0	27.1	29.2	30.2	31.3	31.3	31.3	31.3	31.3	31.3	31.3
145°	20.8	24.0	25.0	27.1	27.1	28.1	28.1	28.1	28.1	28.1	27.1
147.5°	17.7	19.8	22.9	24.0	24.0	25.0	25.0	25.0	25.0	25.0	24.0
150°	13.5	15.6	18.8	20.8	20.8	21.9	21.9	21.9	21.9	20.8	20.8
152.5°	11.5	13.5	14.6	16.7	17.7	17.7	17.7	18.8	17.7	17.7	17.7
155°	10.4	11.5	12.5	13.5	14.6	15.6	15.6	15.6	15.6	14.6	14.6
157.5°	8.3	9.4	10.4	11.5	12.5	13.5	13.5	13.5	13.5	13.5	12.5
160°	6.3	7.3	8.3	8.3	9.4	10.4	11.5	10.4	10.4	10.4	10.4
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: P1213475

CATALOG NUMBER: 4SNLED-LD5-56SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7
2.5°	1890.5	1889.5	1892.6	1887.4	1871.8	1875.9	1873.9	1883.2	1885.3	1887.4	1896.8
5°	1890.5	1889.5	1891.6	1887.4	1870.7	1873.9	1871.8	1881.2	1883.2	1884.3	1893.7
7.5°	1886.4	1885.3	1888.5	1883.2	1865.5	1869.7	1866.6	1875.9	1877.0	1878.0	1886.4
10°	1878.0	1877.0	1879.1	1874.9	1857.2	1861.4	1857.2	1866.6	1866.6	1868.7	1874.9
12.5°	1865.5	1863.4	1867.6	1862.4	1842.6	1847.8	1845.7	1852.0	1853.0	1854.1	1860.3
15°	1847.8	1845.7	1848.8	1845.7	1828.0	1829.0	1825.9	1835.3	1836.3	1834.3	1840.5
17.5°	1821.8	1819.7	1825.9	1823.8	1806.1	1810.3	1809.2	1811.3	1814.5	1809.2	1817.6
20°	1789.4	1791.5	1793.6	1794.7	1781.1	1781.1	1780.1	1784.2	1787.4	1783.2	1789.4
22.5°	1741.5	1746.7	1753.0	1755.1	1745.7	1744.6	1750.9	1748.8	1751.9	1749.8	1754.0
25°	1681.1	1691.5	1697.7	1704.0	1698.8	1700.9	1710.2	1712.3	1712.3	1711.3	1715.4
27.5°	1606.0	1619.6	1631.0	1644.6	1639.4	1643.5	1659.2	1661.3	1665.4	1661.3	1669.6
30°	1516.4	1528.9	1550.8	1570.6	1572.7	1578.9	1600.8	1602.9	1614.4	1610.2	1613.3
32.5°	1426.8	1433.0	1458.0	1477.8	1490.3	1506.0	1529.9	1534.1	1549.7	1552.9	1552.9
35°	1314.2	1331.9	1354.8	1383.0	1398.6	1415.3	1447.6	1453.9	1476.8	1484.1	1492.4
37.5°	1219.4	1236.0	1250.6	1279.8	1308.0	1326.7	1352.8	1368.4	1392.4	1405.9	1416.3
40°	1118.3	1131.8	1147.5	1176.6	1200.6	1228.7	1254.8	1273.6	1303.8	1319.4	1333.0
42.5°	1022.4	1032.8	1049.5	1070.3	1095.3	1126.6	1151.6	1173.5	1205.8	1227.7	1243.3
45°	936.9	943.2	957.8	973.4	995.3	1027.6	1051.6	1079.7	1105.8	1128.7	1147.5
47.5°	856.7	865.0	872.3	882.7	902.5	922.3	950.5	977.6	1003.6	1028.6	1047.4
50°	782.7	782.7	794.2	801.4	815.0	832.7	854.6	873.4	905.7	923.4	947.4
52.5°	710.8	714.9	721.2	725.4	735.8	747.3	765.0	780.6	807.7	824.4	847.3
55°	647.2	651.4	654.5	656.6	662.8	676.4	682.6	695.1	713.9	727.4	747.3
57.5°	586.8	588.8	592.0	593.0	594.0	602.4	607.6	610.7	629.5	643.0	659.7
60°	531.5	531.5	534.6	533.6	532.6	536.7	535.7	538.8	550.3	558.6	565.9
62.5°	479.4	479.4	480.5	478.4	477.3	477.3	473.2	476.3	479.4	480.5	485.7
65°	431.5	436.7	432.5	433.6	427.3	425.2	423.1	416.9	415.8	411.7	413.8
67.5°	388.7	392.9	388.7	388.7	383.5	379.4	374.1	363.7	360.6	352.3	350.2
70°	354.3	351.2	353.3	350.2	343.9	338.7	331.4	323.1	312.7	302.2	294.9
72.5°	321.0	321.0	318.9	315.8	312.7	302.2	293.9	284.5	272.0	258.5	248.0
75°	288.7	289.7	289.7	286.6	281.4	272.0	262.6	249.1	235.5	219.9	206.4
77.5°	265.8	265.8	265.8	260.5	255.3	247.0	235.5	220.9	206.4	187.6	172.0
80°	243.9	242.8	242.8	236.6	231.4	222.0	210.5	195.9	180.3	160.5	142.8
82.5°	226.2	225.1	223.0	217.8	210.5	201.1	189.7	174.0	157.4	139.7	117.8
85°	207.4	206.4	204.3	199.1	191.8	183.4	170.9	155.3	138.6	118.8	98.0
87.5°	190.7	189.7	186.6	183.4	175.1	165.7	153.2	138.6	120.9	102.1	81.3
90°	179.3	177.2	175.1	170.9	163.6	153.2	140.7	125.1	107.3	88.6	67.7
92.5°	165.7	164.7	161.5	157.4	151.1	140.7	128.2	113.6	95.9	78.2	58.4
95°	152.2	151.1	149.0	144.9	138.6	129.2	117.8	103.2	86.5	68.8	51.1
97.5°	139.7	139.7	136.5	133.4	126.1	118.8	107.3	93.8	78.2	62.5	45.9
100°	129.2	129.2	126.1	121.9	116.7	109.4	98.0	85.5	70.9	56.3	39.6
102.5°	119.9	118.8	116.7	112.6	107.3	100.1	89.6	78.2	64.6	50.0	35.4
105°	111.5	110.5	108.4	104.2	100.1	91.7	83.4	71.9	58.4	44.8	31.3
107.5°	103.2	102.1	101.1	96.9	91.7	84.4	76.1	64.6	53.2	40.6	28.1
110°	95.9	94.8	92.8	88.6	83.4	77.1	68.8	59.4	47.9	36.5	25.0

TEST NUMBER: P1213475

CATALOG NUMBER: 4SNLED-LD5-56SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	89.6	88.6	86.5	82.3	78.2	70.9	63.6	53.2	43.8	33.4	21.9
115°	83.4	82.3	80.2	76.1	70.9	64.6	57.3	49.0	38.6	29.2	19.8
117.5°	77.1	76.1	74.0	70.9	65.7	59.4	52.1	43.8	34.4	27.1	17.7
120°	71.9	69.8	67.7	64.6	59.4	54.2	46.9	39.6	31.3	24.0	15.6
122.5°	66.7	64.6	62.5	59.4	54.2	49.0	41.7	35.4	29.2	21.9	14.6
125°	60.4	59.4	57.3	54.2	49.0	43.8	38.6	32.3	26.1	19.8	12.5
127.5°	55.2	54.2	52.1	47.9	43.8	39.6	34.4	29.2	22.9	16.7	11.5
130°	51.1	49.0	46.9	43.8	40.6	36.5	31.3	26.1	20.8	14.6	10.4
132.5°	45.9	43.8	41.7	39.6	36.5	32.3	28.1	22.9	18.8	13.5	9.4
135°	41.7	39.6	37.5	35.4	32.3	29.2	25.0	20.8	16.7	12.5	8.3
137.5°	36.5	35.4	34.4	32.3	29.2	26.1	22.9	17.7	14.6	11.5	7.3
140°	33.4	32.3	31.3	28.1	26.1	22.9	19.8	15.6	12.5	9.4	6.3
142.5°	30.2	29.2	27.1	25.0	22.9	20.8	16.7	14.6	11.5	8.3	6.3
145°	26.1	25.0	24.0	21.9	19.8	16.7	14.6	12.5	10.4	7.3	5.2
147.5°	24.0	22.9	20.8	18.8	16.7	14.6	13.5	11.5	8.3	6.3	4.2
150°	19.8	18.8	17.7	15.6	14.6	13.5	11.5	9.4	7.3	5.2	4.2
152.5°	16.7	15.6	14.6	14.6	12.5	11.5	9.4	8.3	6.3	5.2	3.1
155°	14.6	14.6	13.5	12.5	10.4	9.4	8.3	6.3	5.2	4.2	3.1
157.5°	12.5	11.5	10.4	10.4	9.4	8.3	6.3	5.2	4.2	4.2	3.1
160°	10.4	9.4	9.4	8.3	7.3	6.3	5.2	5.2	4.2	3.1	3.1
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: P1213475

CATALOG NUMBER: 4SNLED-LD5-56SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7
2.5°	1897.8	1886.4	1896.8	1910.3	1910.3	1908.3	1906.2	1910.3	1920.8	1916.6	1904.1
5°	1894.7	1883.2	1892.6	1906.2	1906.2	1903.0	1901.0	1904.1	1915.5	1910.3	1898.9
7.5°	1888.5	1878.0	1884.3	1896.8	1896.8	1893.7	1891.6	1895.7	1905.1	1899.9	1887.4
10°	1877.0	1865.5	1872.8	1884.3	1883.2	1881.2	1878.0	1883.2	1891.6	1884.3	1869.7
12.5°	1862.4	1850.9	1857.2	1867.6	1866.6	1862.4	1860.3	1863.4	1870.7	1866.6	1850.9
15°	1842.6	1831.1	1836.3	1846.8	1843.6	1840.5	1836.3	1837.4	1846.8	1839.5	1822.8
17.5°	1818.6	1806.1	1810.3	1819.7	1816.5	1813.4	1808.2	1809.2	1819.7	1809.2	1791.5
20°	1789.4	1775.9	1779.0	1790.5	1785.3	1780.1	1774.9	1774.9	1785.3	1773.8	1754.0
22.5°	1758.2	1744.6	1746.7	1755.1	1750.9	1741.5	1736.3	1739.4	1744.6	1730.0	1709.2
25°	1719.6	1701.9	1705.0	1713.4	1710.2	1697.7	1692.5	1694.6	1692.5	1681.1	1659.2
27.5°	1674.8	1656.0	1658.1	1663.3	1659.2	1647.7	1641.5	1642.5	1638.3	1623.7	1598.7
30°	1618.5	1609.1	1608.1	1611.2	1605.0	1593.5	1586.2	1584.1	1583.1	1562.2	1532.0
32.5°	1561.2	1552.9	1547.7	1551.8	1544.5	1533.1	1520.6	1520.6	1510.1	1490.3	1464.3
35°	1502.8	1489.3	1484.1	1487.2	1478.9	1464.3	1453.9	1448.6	1433.0	1408.0	1379.9
37.5°	1427.8	1418.4	1412.2	1415.3	1405.9	1395.5	1375.7	1370.5	1353.8	1319.4	1284.0
40°	1346.5	1339.2	1333.0	1336.1	1325.7	1310.0	1292.3	1284.0	1265.2	1226.7	1198.5
42.5°	1259.0	1255.8	1248.5	1260.0	1239.2	1223.5	1205.8	1192.3	1173.5	1131.8	1099.5
45°	1166.2	1173.5	1156.8	1160.0	1146.4	1132.9	1114.1	1094.3	1075.5	1035.9	999.5
47.5°	1068.2	1073.5	1062.0	1064.1	1049.5	1037.0	1020.3	995.3	974.4	940.1	907.7
50°	967.2	965.1	965.1	963.0	951.5	935.9	919.2	896.3	875.4	844.2	817.1
52.5°	859.8	864.0	866.1	871.3	856.7	847.3	821.2	801.4	785.8	753.5	730.6
55°	756.6	771.2	767.1	769.1	752.5	745.2	724.3	708.7	685.8	667.0	652.4
57.5°	662.8	666.0	668.0	671.2	663.9	649.3	632.6	620.1	602.4	586.8	576.3
60°	572.2	572.2	573.2	578.4	571.1	558.6	546.1	536.7	524.2	514.8	508.6
62.5°	486.7	494.0	495.0	490.9	481.5	475.2	466.9	461.7	453.4	450.2	448.1
65°	407.5	407.5	407.5	409.6	404.4	400.2	395.0	393.9	397.1	392.9	395.0
67.5°	340.8	337.7	335.6	336.6	334.5	332.5	331.4	334.5	340.8	340.8	346.0
70°	283.5	277.2	273.1	273.1	273.1	274.1	277.2	283.5	293.9	298.1	305.4
72.5°	236.6	223.0	216.8	216.8	217.8	222.0	231.4	242.8	252.2	260.5	269.9
75°	191.8	178.2	168.8	167.8	169.9	176.1	189.7	200.1	215.7	227.2	238.7
77.5°	155.3	138.6	127.1	126.1	129.2	138.6	155.3	168.8	186.6	199.1	211.6
80°	124.0	105.3	95.9	89.6	94.8	106.3	125.1	141.7	158.4	175.1	190.7
82.5°	99.0	81.3	66.7	60.4	66.7	82.3	100.1	119.9	136.5	154.2	169.9
85°	78.2	59.4	42.7	36.5	43.8	60.4	80.2	100.1	118.8	136.5	152.2
87.5°	61.5	42.7	26.1	17.7	27.1	44.8	63.6	83.4	103.2	120.9	136.5
90°	47.9	30.2	14.6	2.1	15.6	32.3	51.1	69.8	89.6	107.3	123.0
92.5°	40.6	22.9	8.3	0.0	9.4	24.0	41.7	60.4	78.2	95.9	111.5
95°	34.4	18.8	6.3	0.0	6.3	18.8	34.4	51.1	68.8	86.5	102.1
97.5°	29.2	14.6	4.2	0.0	4.2	14.6	28.1	44.8	60.4	77.1	91.7
100°	25.0	12.5	3.1	0.0	3.1	11.5	24.0	38.6	54.2	69.8	83.4
102.5°	21.9	10.4	2.1	0.0	2.1	9.4	19.8	33.4	46.9	61.5	75.0
105°	18.8	8.3	2.1	0.0	1.0	7.3	16.7	29.2	41.7	55.2	67.7
107.5°	16.7	7.3	2.1	0.0	1.0	6.3	14.6	25.0	37.5	49.0	60.4
110°	14.6	6.3	2.1	0.0	1.0	4.2	12.5	21.9	32.3	43.8	55.2

TEST NUMBER: P1213475

CATALOG NUMBER: 4SNLED-LD5-56SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	12.5	5.2	1.0	0.0	0.0	3.1	10.4	18.8	28.1	39.6	49.0
115°	11.5	5.2	1.0	0.0	0.0	2.1	8.3	16.7	25.0	35.4	43.8
117.5°	10.4	4.2	1.0	0.0	1.0	2.1	7.3	14.6	21.9	30.2	39.6
120°	9.4	4.2	1.0	0.0	1.0	1.0	5.2	12.5	18.8	27.1	34.4
122.5°	8.3	4.2	1.0	0.0	1.0	1.0	4.2	10.4	16.7	24.0	30.2
125°	7.3	3.1	2.1	1.0	1.0	1.0	3.1	8.3	14.6	19.8	27.1
127.5°	7.3	3.1	2.1	1.0	1.0	1.0	2.1	7.3	11.5	17.7	24.0
130°	6.3	3.1	2.1	1.0	1.0	1.0	1.0	5.2	10.4	14.6	19.8
132.5°	5.2	3.1	2.1	1.0	1.0	1.0	1.0	3.1	7.3	12.5	16.7
135°	5.2	3.1	2.1	1.0	1.0	1.0	1.0	2.1	5.2	9.4	13.5
137.5°	4.2	2.1	2.1	1.0	1.0	1.0	1.0	1.0	4.2	7.3	10.4
140°	4.2	2.1	2.1	1.0	1.0	1.0	1.0	1.0	3.1	5.2	8.3
142.5°	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	2.1	4.2	6.3
145°	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	2.1	4.2
147.5°	3.1	3.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	2.1	3.1
150°	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1
152.5°	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1
155°	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1
157.5°	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1
160°	3.1	2.1	2.1	1.0	2.1	1.0	2.1	2.1	2.1	2.1	2.1
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: P1213475

CATALOG NUMBER: 4SNLED-LD5-56SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7
2.5°	1899.9	1880.1	1890.5	1887.4	1891.6	1899.9	1898.9	1896.8	1896.8	1893.7	1889.5
5°	1893.7	1874.9	1884.3	1879.1	1884.3	1891.6	1890.5	1887.4	1889.5	1884.3	1879.1
7.5°	1881.2	1864.5	1872.8	1868.7	1872.8	1880.1	1877.0	1875.9	1878.0	1869.7	1866.6
10°	1866.6	1847.8	1857.2	1852.0	1857.2	1862.4	1860.3	1856.1	1860.3	1852.0	1848.8
12.5°	1843.6	1828.0	1834.3	1832.2	1835.3	1840.5	1836.3	1833.2	1835.3	1828.0	1821.8
15°	1818.6	1803.0	1808.2	1805.1	1807.2	1813.4	1806.1	1805.1	1803.0	1795.7	1793.6
17.5°	1786.3	1771.7	1776.9	1771.7	1774.9	1772.8	1771.7	1766.5	1766.5	1758.2	1751.9
20°	1746.7	1734.2	1731.1	1726.9	1731.1	1726.9	1720.7	1716.5	1715.4	1707.1	1701.9
22.5°	1700.9	1686.3	1688.4	1676.9	1677.9	1671.7	1661.3	1657.1	1652.9	1643.5	1636.2
25°	1645.6	1631.0	1620.6	1613.3	1603.9	1602.9	1589.3	1578.9	1577.9	1566.4	1565.4
27.5°	1583.1	1566.4	1558.1	1540.4	1528.9	1519.5	1508.1	1497.6	1492.4	1479.9	1471.6
30°	1511.2	1492.4	1471.6	1459.1	1441.4	1434.1	1414.3	1401.7	1397.6	1384.0	1377.8
32.5°	1429.9	1410.1	1393.4	1369.4	1349.6	1339.2	1319.4	1306.9	1301.7	1287.1	1278.8
35°	1341.3	1319.4	1299.6	1276.7	1261.1	1243.3	1219.4	1206.9	1195.4	1190.2	1183.9
37.5°	1248.5	1224.6	1201.6	1178.7	1165.2	1144.3	1123.5	1115.1	1101.6	1096.4	1090.1
40°	1152.7	1128.7	1106.8	1084.9	1069.3	1050.5	1031.8	1028.6	1014.1	1008.8	1004.7
42.5°	1057.8	1032.8	1007.8	992.2	980.7	961.9	949.4	946.3	933.8	930.7	930.7
45°	972.4	941.1	920.3	906.7	897.3	881.7	871.3	869.2	858.8	856.7	856.7
47.5°	880.7	851.5	835.8	827.5	819.2	807.7	801.4	801.4	791.0	788.9	787.9
50°	795.2	768.1	756.6	748.3	747.3	738.9	733.7	731.6	731.6	724.3	725.4
52.5°	713.9	700.4	691.0	685.8	679.5	674.3	670.1	670.1	667.0	661.8	663.9
55°	638.9	623.2	624.3	620.1	617.0	613.9	614.9	608.6	607.6	603.4	606.6
57.5°	563.8	563.8	561.7	558.6	553.4	555.5	555.5	555.5	550.3	547.2	550.3
60°	500.3	503.4	498.2	501.3	499.2	500.3	498.2	498.2	495.0	494.0	495.0
62.5°	444.0	449.2	447.1	451.3	449.2	450.2	452.3	448.1	446.1	444.0	446.1
65°	393.9	400.2	399.2	402.3	403.3	404.4	405.4	403.3	401.2	399.2	398.1
67.5°	350.2	356.4	360.6	361.6	362.7	365.8	364.8	362.7	360.6	357.5	356.4
70°	310.6	318.9	324.1	326.2	330.4	328.3	328.3	327.2	325.2	322.0	321.0
72.5°	277.2	286.6	291.8	293.9	298.1	298.1	297.0	296.0	293.9	290.8	289.7
75°	248.0	256.4	263.7	267.8	271.0	271.0	269.9	268.9	266.8	264.7	263.7
77.5°	225.1	232.4	238.7	243.9	246.0	247.0	246.0	243.9	243.9	242.8	241.8
80°	202.2	210.5	216.8	222.0	225.1	225.1	224.1	225.1	223.0	222.0	220.9
82.5°	182.4	191.8	199.1	204.3	206.4	207.4	206.4	207.4	205.3	205.3	205.3
85°	164.7	174.0	182.4	186.6	189.7	190.7	190.7	190.7	189.7	189.7	189.7
87.5°	150.1	159.5	167.8	172.0	175.1	176.1	176.1	177.2	175.1	175.1	175.1
90°	136.5	145.9	154.2	158.4	161.5	163.6	163.6	164.7	163.6	162.6	162.6
92.5°	124.0	134.4	142.8	146.9	150.1	153.2	153.2	154.2	152.2	152.2	152.2
95°	113.6	124.0	131.3	136.5	139.7	141.7	142.8	142.8	141.7	141.7	141.7
97.5°	104.2	113.6	120.9	126.1	129.2	130.3	131.3	132.4	131.3	131.3	131.3
100°	94.8	104.2	111.5	115.7	119.9	120.9	121.9	123.0	123.0	121.9	121.9
102.5°	86.5	95.9	102.1	107.3	110.5	112.6	113.6	113.6	113.6	113.6	113.6
105°	78.2	87.5	93.8	99.0	102.1	104.2	105.3	106.3	106.3	105.3	105.3
107.5°	70.9	79.2	86.5	90.7	94.8	96.9	98.0	98.0	99.0	98.0	98.0
110°	63.6	73.0	79.2	83.4	87.5	89.6	90.7	91.7	91.7	91.7	91.7

TEST NUMBER: P1213475

CATALOG NUMBER: 4SNLED-LD5-56SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	58.4	65.7	71.9	76.1	80.2	82.3	83.4	84.4	85.5	84.4	84.4
115°	52.1	59.4	65.7	69.8	73.0	75.0	77.1	78.2	78.2	79.2	78.2
117.5°	46.9	53.2	59.4	63.6	66.7	69.8	70.9	71.9	73.0	71.9	71.9
120°	41.7	47.9	53.2	57.3	60.4	63.6	64.6	65.7	66.7	65.7	65.7
122.5°	37.5	42.7	47.9	52.1	55.2	57.3	59.4	59.4	60.4	60.4	60.4
125°	33.4	38.6	42.7	46.9	50.0	52.1	53.2	54.2	54.2	55.2	55.2
127.5°	29.2	33.4	38.6	41.7	44.8	46.9	47.9	49.0	49.0	50.0	50.0
130°	25.0	29.2	33.4	36.5	39.6	41.7	42.7	43.8	44.8	44.8	44.8
132.5°	21.9	26.1	29.2	32.3	34.4	36.5	38.6	39.6	39.6	39.6	39.6
135°	17.7	21.9	25.0	28.1	30.2	32.3	33.4	35.4	35.4	35.4	35.4
137.5°	14.6	18.8	21.9	24.0	26.1	28.1	29.2	30.2	31.3	31.3	31.3
140°	11.5	14.6	17.7	20.8	22.9	24.0	26.1	26.1	27.1	27.1	27.1
142.5°	8.3	11.5	13.5	16.7	18.8	20.8	21.9	22.9	22.9	22.9	22.9
145°	6.3	8.3	10.4	12.5	15.6	16.7	17.7	18.8	19.8	19.8	19.8
147.5°	4.2	6.3	7.3	9.4	11.5	13.5	14.6	15.6	16.7	16.7	16.7
150°	3.1	4.2	6.3	7.3	8.3	10.4	12.5	12.5	13.5	13.5	12.5
152.5°	2.1	3.1	4.2	5.2	6.3	7.3	9.4	9.4	10.4	10.4	10.4
155°	2.1	2.1	2.1	3.1	4.2	5.2	6.3	7.3	7.3	7.3	7.3
157.5°	2.1	2.1	2.1	2.1	2.1	3.1	4.2	5.2	5.2	5.2	5.2
160°	2.1	2.1	1.0	1.0	2.1	2.1	2.1	2.1	3.1	3.1	3.1
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: P1213475

CATALOG NUMBER: 4SNLED-LD5-56SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7
2.5°	1892.6	1894.7	1894.7	1892.6	1891.6	1895.7	1890.5	1870.7	1877.0	1879.1	1885.3
5°	1883.2	1885.3	1885.3	1885.3	1883.2	1887.4	1882.2	1862.4	1869.7	1872.8	1877.0
7.5°	1869.7	1870.7	1872.8	1871.8	1869.7	1875.9	1870.7	1850.9	1856.1	1861.4	1866.6
10°	1852.0	1852.0	1853.0	1855.1	1853.0	1858.2	1853.0	1835.3	1840.5	1843.6	1849.9
12.5°	1828.0	1830.1	1831.1	1830.1	1829.0	1833.2	1831.1	1814.5	1816.5	1822.8	1829.0
15°	1795.7	1795.7	1800.9	1798.8	1798.8	1803.0	1805.1	1786.3	1789.4	1798.8	1805.1
17.5°	1756.1	1757.1	1761.3	1763.4	1762.3	1769.6	1770.7	1756.1	1755.1	1766.5	1772.8
20°	1705.0	1707.1	1712.3	1716.5	1716.5	1724.8	1728.0	1718.6	1719.6	1732.1	1734.2
22.5°	1642.5	1642.5	1651.9	1658.1	1663.3	1668.5	1677.9	1669.6	1669.6	1686.3	1695.6
25°	1565.4	1572.7	1575.8	1588.3	1595.6	1610.2	1618.5	1619.6	1620.6	1636.2	1642.5
27.5°	1479.9	1482.0	1491.4	1506.0	1514.3	1527.9	1543.5	1546.6	1551.8	1572.7	1582.0
30°	1383.0	1389.2	1393.4	1414.3	1425.7	1443.4	1463.2	1470.5	1474.7	1502.8	1514.3
32.5°	1284.0	1286.1	1303.8	1315.2	1328.8	1347.6	1370.5	1384.0	1392.4	1421.5	1438.2
35°	1185.0	1189.1	1203.7	1218.3	1231.9	1250.6	1274.6	1293.4	1308.0	1334.0	1355.9
37.5°	1094.3	1104.7	1107.9	1122.4	1132.9	1151.6	1168.3	1195.4	1210.0	1237.1	1265.2
40°	1013.0	1016.1	1018.2	1032.8	1040.1	1057.8	1081.8	1099.5	1119.3	1139.1	1172.5
42.5°	932.8	934.8	938.0	946.3	954.6	967.2	984.9	1002.6	1023.4	1052.6	1074.5
45°	858.8	860.9	862.9	868.1	875.4	886.9	898.4	910.9	931.7	956.7	979.7
47.5°	790.0	794.2	794.2	795.2	800.4	809.8	818.1	833.8	845.2	858.8	884.8
50°	724.3	727.4	728.5	728.5	731.6	737.9	740.0	750.4	760.8	773.3	792.1
52.5°	662.8	662.8	661.8	666.0	666.0	670.1	671.2	677.4	684.7	698.3	706.6
55°	604.5	604.5	607.6	605.5	605.5	607.6	606.6	607.6	613.9	622.2	629.5
57.5°	548.2	547.2	550.3	548.2	547.2	549.2	551.3	547.2	548.2	556.5	556.5
60°	491.9	493.0	496.1	494.0	494.0	494.0	491.9	489.8	487.7	493.0	495.0
62.5°	447.1	444.0	447.1	444.0	446.1	445.0	442.9	438.8	439.8	437.7	435.6
65°	400.2	400.2	401.2	398.1	400.2	400.2	397.1	396.0	389.8	387.7	382.5
67.5°	359.6	359.6	360.6	358.5	358.5	359.6	356.4	353.3	347.0	343.9	336.6
70°	324.1	324.1	324.1	323.1	323.1	323.1	321.0	316.8	310.6	305.4	296.0
72.5°	291.8	292.9	291.8	291.8	294.9	291.8	288.7	284.5	279.3	268.9	260.5
75°	265.8	266.8	265.8	265.8	265.8	264.7	263.7	257.4	251.2	242.8	230.3
77.5°	242.8	242.8	243.9	242.8	242.8	241.8	238.7	233.5	226.2	218.9	204.3
80°	220.9	222.0	223.0	224.1	222.0	220.9	217.8	213.6	204.3	195.9	181.3
82.5°	205.3	204.3	205.3	206.4	204.3	203.2	200.1	194.9	187.6	176.1	161.5
85°	189.7	188.6	188.6	189.7	188.6	186.6	183.4	178.2	170.9	159.5	144.9
87.5°	174.0	175.1	176.1	175.1	174.0	172.0	168.8	163.6	155.3	145.9	130.3
90°	162.6	162.6	162.6	162.6	161.5	159.5	156.3	150.1	142.8	131.3	117.8
92.5°	152.2	152.2	152.2	152.2	151.1	148.0	144.9	139.7	131.3	119.9	107.3
95°	141.7	142.8	141.7	141.7	139.7	138.6	133.4	128.2	120.9	109.4	95.9
97.5°	130.3	131.3	130.3	130.3	129.2	127.1	124.0	117.8	110.5	100.1	87.5
100°	121.9	121.9	120.9	120.9	119.9	117.8	113.6	108.4	101.1	90.7	78.2
102.5°	112.6	113.6	112.6	112.6	110.5	108.4	105.3	100.1	92.8	82.3	70.9
105°	105.3	105.3	104.2	104.2	102.1	100.1	96.9	90.7	84.4	75.0	63.6
107.5°	98.0	98.0	96.9	96.9	94.8	92.8	88.6	83.4	77.1	67.7	57.3
110°	90.7	90.7	90.7	89.6	87.5	84.4	81.3	76.1	69.8	61.5	51.1

TEST NUMBER: P1213475

CATALOG NUMBER: 4SNLED-LD5-56SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	85.5	84.4	83.4	82.3	80.2	78.2	74.0	68.8	62.5	55.2	45.9
115°	78.2	78.2	77.1	76.1	74.0	70.9	67.7	63.6	57.3	49.0	40.6
117.5°	71.9	71.9	70.9	69.8	67.7	64.6	61.5	57.3	51.1	43.8	36.5
120°	65.7	65.7	64.6	63.6	61.5	58.4	56.3	51.1	45.9	38.6	32.3
122.5°	60.4	59.4	59.4	57.3	56.3	53.2	50.0	45.9	40.6	34.4	28.1
125°	54.2	54.2	53.2	52.1	51.1	47.9	44.8	40.6	35.4	30.2	25.0
127.5°	49.0	49.0	47.9	46.9	45.9	42.7	39.6	36.5	31.3	26.1	20.8
130°	43.8	43.8	42.7	41.7	40.6	37.5	35.4	31.3	27.1	22.9	17.7
132.5°	39.6	39.6	38.6	37.5	35.4	33.4	31.3	27.1	24.0	19.8	15.6
135°	35.4	34.4	34.4	33.4	31.3	29.2	27.1	24.0	19.8	16.7	12.5
137.5°	31.3	30.2	29.2	28.1	27.1	25.0	22.9	20.8	17.7	13.5	10.4
140°	27.1	26.1	26.1	25.0	22.9	21.9	19.8	16.7	14.6	11.5	8.3
142.5°	22.9	22.9	21.9	20.8	19.8	18.8	16.7	14.6	11.5	9.4	6.3
145°	19.8	18.8	18.8	17.7	16.7	14.6	13.5	11.5	9.4	7.3	5.2
147.5°	15.6	15.6	15.6	14.6	13.5	12.5	11.5	9.4	7.3	5.2	3.1
150°	12.5	12.5	12.5	11.5	10.4	9.4	8.3	7.3	5.2	3.1	2.1
152.5°	10.4	10.4	9.4	9.4	8.3	7.3	6.3	5.2	3.1	2.1	2.1
155°	7.3	7.3	7.3	6.3	6.3	5.2	4.2	3.1	2.1	2.1	2.1
157.5°	5.2	5.2	5.2	4.2	4.2	3.1	3.1	2.1	2.1	2.1	2.1
160°	3.1	3.1	3.1	3.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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: P1213475

CATALOG NUMBER: 4SNLED-LD5-56SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7
2.5°	1882.2	1881.2	1889.5	1889.5	1880.1	1894.7	1910.3
5°	1875.9	1874.9	1883.2	1883.2	1874.9	1889.5	1906.2
7.5°	1863.4	1864.5	1872.8	1874.9	1864.5	1878.0	1895.7
10°	1849.9	1848.8	1858.2	1860.3	1852.0	1864.5	1881.2
12.5°	1828.0	1828.0	1837.4	1840.5	1832.2	1846.8	1862.4
15°	1805.1	1805.1	1811.3	1816.5	1809.2	1822.8	1838.4
17.5°	1775.9	1774.9	1781.1	1787.4	1780.1	1794.7	1811.3
20°	1738.4	1738.4	1745.7	1753.0	1747.8	1761.3	1780.1
22.5°	1698.8	1694.6	1707.1	1712.3	1709.2	1722.7	1741.5
25°	1648.7	1647.7	1660.2	1667.5	1663.3	1677.9	1694.6
27.5°	1594.6	1593.5	1606.0	1615.4	1613.3	1626.9	1645.6
30°	1528.9	1534.1	1545.6	1561.2	1556.0	1570.6	1590.4
32.5°	1460.1	1465.3	1478.9	1495.5	1496.6	1508.1	1527.9
35°	1377.8	1391.3	1400.7	1422.6	1426.8	1438.2	1459.1
37.5°	1291.3	1306.9	1326.7	1343.4	1351.7	1361.1	1385.1
40°	1194.4	1217.3	1239.2	1259.0	1269.4	1278.8	1301.7
42.5°	1106.8	1124.5	1145.4	1165.2	1183.9	1192.3	1216.2
45°	1007.8	1028.6	1047.4	1071.4	1090.1	1099.5	1123.5
47.5°	910.9	931.7	956.7	973.4	993.2	1002.6	1025.5
50°	818.1	836.9	857.7	877.5	894.2	902.5	922.3
52.5°	726.4	746.2	766.0	778.5	796.2	802.5	819.2
55°	645.1	658.7	676.4	683.7	701.4	705.6	717.0
57.5°	567.0	576.3	582.6	595.1	607.6	617.0	630.5
60°	496.1	500.3	504.4	511.7	522.1	525.3	530.5
62.5°	432.5	431.5	439.8	441.9	442.9	453.4	448.1
65°	376.2	377.3	370.0	366.9	371.0	374.1	372.1
67.5°	329.3	323.1	316.8	309.5	303.3	306.4	303.3
70°	283.5	278.3	267.8	257.4	253.3	247.0	243.9
72.5°	247.0	234.5	224.1	210.5	203.2	195.9	190.7
75°	218.9	201.1	186.6	172.0	161.5	151.1	149.0
77.5°	189.7	173.0	156.3	140.7	125.1	113.6	109.4
80°	166.8	151.1	131.3	112.6	95.9	81.3	76.1
82.5°	145.9	129.2	109.4	89.6	70.9	55.2	49.0
85°	128.2	110.5	90.7	70.9	52.1	35.4	27.1
87.5°	114.6	94.8	75.0	56.3	36.5	19.8	10.4
90°	102.1	83.4	64.6	44.8	26.1	10.4	0.0
92.5°	90.7	73.0	54.2	36.5	19.8	6.3	1.0
95°	80.2	64.6	45.9	29.2	14.6	4.2	1.0
97.5°	71.9	56.3	39.6	24.0	11.5	3.1	1.0
100°	64.6	49.0	34.4	19.8	9.4	2.1	1.0
102.5°	57.3	43.8	29.2	16.7	7.3	1.0	1.0
105°	51.1	38.6	25.0	14.6	6.3	1.0	1.0
107.5°	45.9	34.4	21.9	12.5	4.2	1.0	1.0
110°	40.6	29.2	18.8	10.4	3.1	1.0	1.0

TEST NUMBER: P1213475

CATALOG NUMBER: 4SNLED-LD5-56SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	36.5	26.1	16.7	8.3	2.1	1.0	1.0
115°	32.3	22.9	14.6	7.3	2.1	1.0	1.0
117.5°	28.1	19.8	12.5	5.2	1.0	1.0	1.0
120°	25.0	17.7	10.4	4.2	1.0	1.0	1.0
122.5°	21.9	14.6	8.3	3.1	1.0	1.0	1.0
125°	18.8	12.5	7.3	2.1	1.0	1.0	1.0
127.5°	15.6	10.4	5.2	2.1	1.0	1.0	1.0
130°	13.5	8.3	4.2	1.0	1.0	1.0	1.0
132.5°	11.5	6.3	3.1	1.0	1.0	1.0	1.0
135°	9.4	5.2	2.1	1.0	1.0	1.0	1.0
137.5°	7.3	4.2	2.1	1.0	1.0	1.0	1.0
140°	5.2	3.1	1.0	1.0	1.0	1.0	1.0
142.5°	4.2	2.1	1.0	1.0	1.0	1.0	1.0
145°	3.1	2.1	1.0	1.0	1.0	1.0	1.0
147.5°	2.1	2.1	2.1	2.1	1.0	1.0	1.0
150°	2.1	2.1	1.0	1.0	2.1	1.0	1.0
152.5°	2.1	1.0	1.0	1.0	2.1	1.0	1.0
155°	2.1	2.1	2.1	2.1	2.1	2.1	1.0
157.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1
160°	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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)