

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: P1213992

Luminaire Tested: 8SNLED-LD5-81SL-LW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33520)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8SNLED-LD5-81SL-LW-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

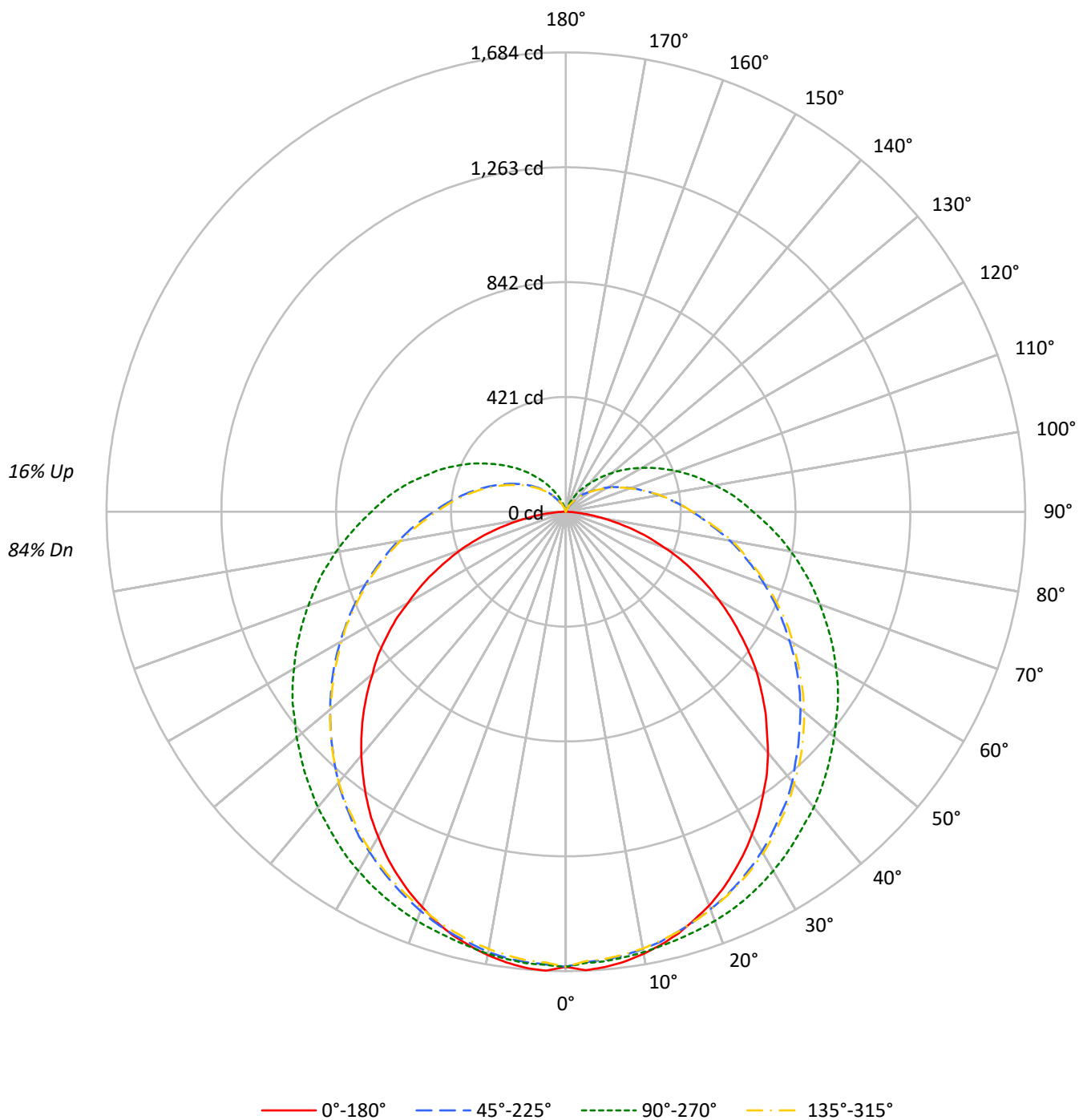
Lumens per Lamp: N/A
Luminaire Lumens: 7247.0 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 69
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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84		
1	102	96	91	86	98	92	87	83	85	81	77	78	75	72	72	70	67	64		
2	92	82	74	68	87	79	72	66	73	67	62	67	62	58	62	58	54	51		
3	83	71	62	55	79	69	60	54	63	56	51	58	52	48	54	49	45	42		
4	76	63	53	46	72	60	52	45	56	48	42	51	45	40	47	42	38	35		
5	69	56	46	39	66	54	45	38	50	42	36	46	39	34	42	37	33	30		
6	64	50	41	34	61	48	39	33	45	37	31	41	35	30	38	33	28	26		
7	59	45	36	30	56	43	35	29	40	33	28	38	31	26	35	29	25	23		
8	55	41	32	26	52	40	31	26	37	30	24	34	28	23	32	26	22	20		
9	51	37	29	23	49	36	28	23	34	27	22	32	25	21	30	24	20	18		
10	48	34	26	21	46	33	26	21	31	24	20	29	23	19	27	22	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6740	6740	6740	6740
5°	6785	6495	6799	6523
10°	6731	6311	6753	6331
15°	6662	6153	6692	6159
20°	6568	6037	6590	6037
25°	6448	5935	6487	5928
30°	6313	5829	6362	5829
35°	6156	5732	6224	5739
40°	6000	5675	6074	5675
45°	5821	5614	5910	5622
50°	5635	5579	5711	5594
55°	5371	5584	5541	5608
60°	5095	5601	5261	5635
65°	4785	5657	4997	5713
70°	4345	5761	4684	5843
75°	3841	5950	4204	6064
80°	3046	6228	3460	6373
85°	1939	6676	2423	6861

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 7670 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.0	2.2
10°-20°	454.1	6.3
20°-30°	696.3	9.6
30°-40°	859.0	11.9
40°-50°	931.9	12.9
50°-60°	918.6	12.7
60°-70°	830.5	11.5
70°-80°	691.9	9.5
80°-90°	535.9	7.4
90°-100°	406.4	5.6
100°-110°	300.7	4.1
110°-120°	209.2	2.9
120°-130°	133.5	1.8
130°-140°	74.9	1.0
140°-150°	34.2	0.5
150°-160°	10.6	0.1
160°-170°	1.3	0.0
170°-180°	0.0	0.0
0°-30°	1308.4	18.1
0°-40°	2167.4	29.9
0°-60°	4017.9	55.4
0°-90°	6076.1	83.8
90°-120°	916.4	12.6
90°-150°	1158.9	16.0
90°-180°	1171.0	16.2
0°-180°	7247.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1668	1668	1668	1668	1668	
5°	1675	1654	1679	1661	1675	159
15°	1599	1619	1606	1620	1599	451
25°	1457	1564	1466	1562	1457	671
35°	1262	1468	1276	1469	1262	790
45°	1035	1351	1050	1353	1035	797
55°	780	1218	804	1223	780	698
65°	517	1068	540	1079	517	513
75°	260	915	285	933	260	276
85°	49	762	62	783	49	60
90°	2	686	4	713	2	3
95°	2	623	2	653	2	1
105°	2	494	2	524	2	2
115°	2	376	2	410	2	2
125°	2	271	2	301	2	2
135°	2	176	2	208	2	1
145°	2	102	2	125	2	1
155°	2	42	2	58	2	1
165°	2	7	2	11	2	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°	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0
2.5°	1682.1	1682.1	1680.4	1676.8	1678.6	1683.9	1680.4	1671.6	1666.3	1652.2	1655.7
5°	1675.1	1675.1	1673.3	1669.8	1671.6	1678.6	1675.1	1668.0	1661.0	1648.7	1654.0
7.5°	1662.8	1662.8	1661.0	1657.5	1661.0	1668.0	1664.5	1657.5	1652.2	1639.9	1645.2
10°	1645.2	1646.9	1645.2	1639.9	1646.9	1654.0	1652.2	1643.4	1638.1	1627.6	1632.9
12.5°	1624.1	1625.8	1624.1	1622.3	1625.8	1636.4	1632.9	1625.8	1622.3	1613.5	1618.8
15°	1599.4	1601.2	1597.7	1597.7	1601.2	1611.7	1611.7	1604.7	1601.2	1592.4	1602.9
17.5°	1567.8	1569.5	1567.8	1567.8	1571.3	1581.8	1583.6	1580.1	1576.6	1573.0	1583.6
20°	1536.1	1534.3	1534.3	1532.6	1539.6	1555.4	1553.7	1553.7	1550.2	1550.2	1562.5
22.5°	1499.1	1499.1	1497.4	1497.4	1506.2	1520.2	1520.2	1523.8	1520.2	1527.3	1537.8
25°	1456.9	1458.7	1456.9	1460.4	1467.5	1483.3	1485.1	1490.3	1492.1	1499.1	1511.4
27.5°	1412.9	1414.7	1412.9	1416.4	1428.7	1441.1	1449.9	1456.9	1458.7	1469.2	1485.1
30°	1365.4	1365.4	1367.2	1370.7	1384.8	1404.1	1411.2	1420.0	1420.0	1437.5	1453.4
32.5°	1316.1	1316.1	1316.1	1323.2	1339.0	1361.9	1370.7	1381.2	1384.8	1402.4	1420.0
35°	1261.6	1263.4	1263.4	1268.6	1289.7	1312.6	1324.9	1337.3	1344.3	1365.4	1383.0
37.5°	1210.6	1214.1	1208.8	1215.8	1245.8	1265.1	1279.2	1291.5	1303.8	1332.0	1346.1
40°	1152.5	1156.0	1154.3	1168.3	1193.0	1217.6	1233.4	1245.8	1263.4	1291.5	1307.3
42.5°	1090.9	1094.4	1098.0	1113.8	1140.2	1164.8	1184.2	1200.0	1221.1	1245.8	1272.1
45°	1034.6	1034.6	1039.9	1059.2	1087.4	1113.8	1136.7	1154.3	1178.9	1205.3	1231.7
47.5°	971.3	973.0	980.1	1002.9	1032.9	1064.5	1085.6	1108.5	1134.9	1163.1	1193.0
50°	913.2	913.2	923.8	948.4	976.5	1011.7	1034.6	1061.0	1089.2	1122.6	1152.5
52.5°	846.3	849.9	865.7	888.6	925.5	957.2	983.6	1011.7	1045.2	1080.4	1113.8
55°	779.5	786.5	798.8	830.5	869.2	899.1	930.8	966.0	997.7	1036.4	1075.1
57.5°	714.4	719.7	739.0	770.7	811.1	848.1	881.5	915.0	953.7	992.4	1032.9
60°	647.5	654.5	677.4	709.1	753.1	791.8	830.5	865.7	906.2	946.6	988.9
62.5°	584.2	589.4	615.8	652.8	696.8	739.0	777.7	819.9	863.9	902.6	944.9
65°	517.3	526.1	556.0	589.4	640.5	682.7	726.7	772.4	818.2	860.4	900.9
67.5°	455.7	461.0	492.7	531.4	582.4	629.9	675.7	724.9	772.4	816.4	856.9
70°	383.6	401.2	432.8	473.3	527.9	577.1	626.4	677.4	728.5	774.2	812.9
72.5°	323.8	337.8	373.0	417.0	469.8	527.9	578.9	633.4	684.5	732.0	772.4
75°	260.4	274.5	315.0	364.2	418.8	480.4	533.1	589.4	642.2	689.7	732.0
77.5°	198.8	216.4	260.4	311.4	371.3	434.6	489.2	545.5	600.0	651.0	693.3
80°	142.5	161.9	209.4	267.5	325.5	388.9	448.7	505.0	559.5	610.6	654.5
82.5°	91.5	112.6	163.6	221.7	283.3	346.6	408.2	464.5	519.1	570.1	615.8
85°	49.3	72.1	124.9	183.0	244.6	307.9	369.5	429.3	482.1	529.6	578.9
87.5°	14.1	42.2	93.3	151.3	214.7	272.7	332.6	392.4	445.2	496.2	540.2
90°	1.8	24.6	70.4	124.9	186.5	242.8	302.6	358.9	411.7	462.8	506.7
92.5°	1.8	15.8	54.5	103.8	160.1	218.2	278.0	332.6	381.8	432.8	476.8
95°	1.8	12.3	44.0	88.0	140.8	195.3	251.6	304.4	355.4	402.9	446.9
97.5°	1.8	8.8	35.2	75.7	123.2	174.2	228.7	281.5	330.8	376.5	417.0
100°	1.8	7.0	28.2	65.1	107.3	156.6	205.9	256.9	304.4	348.4	390.6
102.5°	1.8	5.3	24.6	54.5	95.0	139.0	186.5	234.0	279.8	322.0	364.2
105°	1.8	5.3	21.1	47.5	84.5	124.9	168.9	214.7	256.9	297.4	336.1
107.5°	1.8	3.5	17.6	40.5	73.9	112.6	153.1	197.1	235.8	274.5	311.4
110°	1.8	3.5	14.1	37.0	65.1	100.3	139.0	179.5	216.4	253.4	288.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.8	3.5	12.3	31.7	56.3	89.7	124.9	161.9	197.1	234.0	265.7
115°	1.8	3.5	10.6	28.2	52.8	77.4	112.6	146.0	181.2	214.7	244.6
117.5°	1.8	3.5	8.8	22.9	45.7	70.4	98.5	132.0	163.6	195.3	223.5
120°	1.8	3.5	7.0	21.1	40.5	63.3	88.0	117.9	147.8	177.7	207.6
122.5°	1.8	1.8	7.0	17.6	35.2	56.3	80.9	103.8	132.0	160.1	186.5
125°	1.8	1.8	7.0	15.8	29.9	51.0	72.1	93.3	117.9	142.5	165.4
127.5°	1.8	1.8	5.3	12.3	26.4	44.0	63.3	86.2	103.8	126.7	149.6
130°	1.8	1.8	5.3	10.6	22.9	37.0	56.3	75.7	96.8	112.6	132.0
132.5°	1.8	1.8	5.3	8.8	17.6	29.9	47.5	65.1	84.5	102.1	117.9
135°	1.8	1.8	3.5	7.0	14.1	24.6	38.7	54.5	73.9	91.5	107.3
137.5°	1.8	1.8	3.5	7.0	10.6	21.1	29.9	44.0	61.6	77.4	93.3
140°	1.8	1.8	3.5	5.3	8.8	15.8	24.6	35.2	49.3	63.3	80.9
142.5°	1.8	1.8	1.8	5.3	7.0	12.3	19.4	28.2	38.7	51.0	65.1
145°	1.8	1.8	1.8	5.3	7.0	8.8	15.8	22.9	29.9	38.7	51.0
147.5°	1.8	1.8	1.8	3.5	5.3	7.0	12.3	17.6	22.9	29.9	37.0
150°	1.8	1.8	1.8	3.5	5.3	7.0	8.8	12.3	17.6	24.6	29.9
152.5°	1.8	1.8	1.8	3.5	3.5	5.3	7.0	8.8	12.3	17.6	21.1
155°	1.8	1.8	1.8	1.8	3.5	5.3	7.0	7.0	8.8	12.3	15.8
157.5°	1.8	1.8	1.8	1.8	3.5	3.5	5.3	5.3	7.0	7.0	10.6
160°	1.8	1.8	1.8	1.8	1.8	3.5	3.5	5.3	5.3	5.3	5.3
162.5°	1.8	1.8	1.8	1.8	1.8	1.8	3.5	3.5	3.5	5.3	5.3
165°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.5	3.5	3.5
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°	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0
2.5°	1655.7	1657.5	1662.8	1662.8	1659.2	1659.2	1657.5	1655.7	1657.5	1661.0	1661.0
5°	1652.2	1654.0	1659.2	1661.0	1657.5	1655.7	1655.7	1654.0	1655.7	1659.2	1659.2
7.5°	1645.2	1646.9	1652.2	1654.0	1650.5	1650.5	1648.7	1646.9	1650.5	1652.2	1652.2
10°	1634.6	1636.4	1643.4	1645.2	1643.4	1641.7	1641.7	1639.9	1641.7	1645.2	1645.2
12.5°	1620.5	1624.1	1632.9	1632.9	1632.9	1631.1	1631.1	1629.3	1631.1	1634.6	1632.9
15°	1604.7	1611.7	1618.8	1622.3	1622.3	1622.3	1620.5	1618.8	1622.3	1624.1	1622.3
17.5°	1587.1	1595.9	1606.5	1610.0	1610.0	1611.7	1610.0	1608.2	1611.7	1611.7	1610.0
20°	1569.5	1578.3	1588.9	1592.4	1595.9	1597.7	1597.7	1595.9	1597.7	1599.4	1597.7
22.5°	1546.6	1557.2	1569.5	1574.8	1578.3	1581.8	1581.8	1581.8	1583.6	1585.3	1581.8
25°	1522.0	1534.3	1548.4	1553.7	1560.7	1562.5	1564.2	1564.2	1566.0	1567.8	1562.5
27.5°	1495.6	1509.7	1523.8	1532.6	1537.8	1541.4	1541.4	1543.1	1544.9	1546.6	1541.4
30°	1463.9	1485.1	1497.4	1504.4	1511.4	1516.7	1518.5	1520.2	1522.0	1523.8	1518.5
32.5°	1435.8	1453.4	1469.2	1478.0	1486.8	1493.9	1495.6	1495.6	1499.1	1499.1	1493.9
35°	1402.4	1423.5	1439.3	1448.1	1458.7	1463.9	1467.5	1467.5	1471.0	1471.0	1465.7
37.5°	1368.9	1390.0	1407.6	1418.2	1430.5	1437.5	1439.3	1439.3	1442.8	1442.8	1435.8
40°	1333.7	1356.6	1376.0	1388.3	1398.8	1407.6	1409.4	1414.7	1414.7	1412.9	1405.9
42.5°	1298.5	1319.7	1340.8	1354.8	1368.9	1377.7	1381.2	1383.0	1383.0	1381.2	1376.0
45°	1259.8	1284.5	1303.8	1321.4	1335.5	1344.3	1349.6	1351.3	1351.3	1347.8	1342.5
47.5°	1222.9	1247.5	1266.9	1286.2	1300.3	1310.9	1316.1	1317.9	1316.1	1314.4	1309.1
50°	1184.2	1212.3	1231.7	1251.0	1265.1	1273.9	1282.7	1284.5	1282.7	1280.9	1270.4
52.5°	1143.7	1173.6	1194.7	1214.1	1229.9	1240.5	1247.5	1249.3	1249.3	1245.8	1238.7
55°	1103.2	1129.6	1156.0	1177.1	1194.7	1205.3	1214.1	1217.6	1214.1	1210.6	1201.8
57.5°	1066.3	1090.9	1117.3	1140.2	1157.8	1171.9	1178.9	1182.4	1178.9	1173.6	1164.8
60°	1022.3	1048.7	1078.6	1099.7	1119.1	1133.1	1136.7	1143.7	1140.2	1134.9	1126.1
62.5°	980.1	1011.7	1038.1	1064.5	1080.4	1096.2	1103.2	1106.8	1103.2	1098.0	1089.2
65°	936.1	971.3	997.7	1024.1	1041.6	1057.5	1066.3	1068.0	1064.5	1059.2	1050.4
67.5°	895.6	929.0	957.2	985.3	1001.2	1017.0	1025.8	1029.3	1025.8	1018.8	1010.0
70°	855.1	888.6	922.0	943.1	962.5	980.1	985.3	990.6	987.1	980.1	969.5
72.5°	814.7	849.9	883.3	904.4	925.5	941.4	948.4	953.7	950.2	943.1	930.8
75°	772.4	809.4	842.8	865.7	886.8	902.6	909.7	915.0	911.4	904.4	890.3
77.5°	733.7	770.7	802.4	827.0	848.1	862.2	874.5	876.3	872.7	865.7	851.6
80°	693.3	730.2	763.6	788.3	809.4	823.5	832.3	837.5	834.0	827.0	812.9
82.5°	658.1	691.5	724.9	749.6	770.7	788.3	795.3	800.6	798.8	788.3	777.7
85°	619.4	658.1	684.5	710.9	732.0	749.6	754.8	761.9	760.1	751.3	737.2
87.5°	580.6	619.4	651.0	677.4	696.8	710.9	719.7	723.2	721.4	712.6	696.8
90°	549.0	584.2	615.8	644.0	659.8	675.7	684.5	686.2	686.2	675.7	663.3
92.5°	519.1	552.5	584.2	610.6	629.9	644.0	651.0	654.5	652.8	644.0	629.9
95°	485.6	522.6	552.5	578.9	598.2	612.3	619.4	622.9	621.1	612.3	598.2
97.5°	457.5	490.9	520.8	545.5	564.8	578.9	585.9	589.4	589.4	580.6	566.6
100°	429.3	462.8	490.9	515.5	533.1	547.2	554.3	556.0	554.3	547.2	533.1
102.5°	401.2	432.8	461.0	483.9	503.2	515.5	522.6	524.3	524.3	515.5	501.5
105°	373.0	404.7	431.1	455.7	471.6	483.9	489.2	494.4	492.7	485.6	471.6
107.5°	346.6	378.3	402.9	425.8	441.6	454.0	459.2	464.5	462.8	455.7	441.6
110°	322.0	351.9	374.8	397.7	411.7	424.0	432.8	434.6	431.1	424.0	411.7

TEST NUMBER: P1213992

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	299.1	325.5	348.4	369.5	385.3	394.1	401.2	404.7	401.2	394.1	385.3
115°	274.5	300.9	323.8	343.1	357.2	367.7	373.0	376.5	373.0	366.0	357.2
117.5°	251.6	276.2	299.1	318.5	330.8	339.6	344.9	348.4	344.9	339.6	330.8
120°	232.3	253.4	274.5	292.1	306.2	313.2	318.5	322.0	320.2	313.2	304.4
122.5°	209.4	232.3	251.6	269.2	281.5	288.6	292.1	295.6	293.8	288.6	279.8
125°	190.0	209.4	228.7	244.6	256.9	263.9	267.5	271.0	269.2	263.9	253.4
127.5°	168.9	190.0	205.9	221.7	230.5	241.1	242.8	246.3	244.6	239.3	230.5
130°	153.1	168.9	184.8	198.8	209.4	216.4	219.9	221.7	218.2	214.7	205.9
132.5°	133.7	151.3	165.4	177.7	184.8	191.8	195.3	197.1	197.1	191.8	184.8
135°	119.6	132.0	144.3	156.6	163.6	170.7	174.2	176.0	174.2	170.7	163.6
137.5°	107.3	117.9	126.7	137.2	146.0	149.6	153.1	153.1	151.3	149.6	144.3
140°	93.3	105.6	114.4	121.4	128.4	130.2	133.7	133.7	132.0	130.2	126.7
142.5°	79.2	89.7	98.5	107.3	112.6	116.1	117.9	119.6	117.9	116.1	110.9
145°	63.3	75.7	84.5	89.7	96.8	98.5	100.3	102.1	100.3	98.5	93.3
147.5°	49.3	59.8	68.6	75.7	80.9	82.7	84.5	86.2	84.5	80.9	79.2
150°	35.2	44.0	54.5	61.6	65.1	68.6	68.6	68.6	70.4	66.9	63.3
152.5°	28.2	31.7	38.7	45.7	51.0	52.8	54.5	54.5	52.8	52.8	49.3
155°	19.4	22.9	28.2	33.4	38.7	40.5	42.2	42.2	40.5	40.5	38.7
157.5°	12.3	15.8	19.4	22.9	28.2	29.9	31.7	31.7	31.7	29.9	28.2
160°	7.0	8.8	10.6	14.1	17.6	19.4	21.1	21.1	21.1	21.1	19.4
162.5°	5.3	5.3	5.3	7.0	8.8	10.6	12.3	12.3	12.3	12.3	10.6
165°	3.5	3.5	3.5	3.5	3.5	5.3	7.0	7.0	7.0	7.0	7.0
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: P1213992

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0
2.5°	1659.2	1659.2	1661.0	1657.5	1646.9	1648.7	1648.7	1655.7	1659.2	1661.0	1669.8
5°	1655.7	1655.7	1659.2	1654.0	1645.2	1645.2	1645.2	1652.2	1654.0	1657.5	1664.5
7.5°	1650.5	1650.5	1652.2	1646.9	1636.4	1636.4	1634.6	1641.7	1645.2	1646.9	1654.0
10°	1641.7	1641.7	1643.4	1638.1	1625.8	1625.8	1624.1	1629.3	1631.1	1634.6	1639.9
12.5°	1629.3	1629.3	1629.3	1624.1	1611.7	1610.0	1608.2	1613.5	1613.5	1615.3	1620.5
15°	1618.8	1615.3	1615.3	1610.0	1597.7	1594.1	1590.6	1592.4	1595.9	1594.1	1597.7
17.5°	1606.5	1602.9	1599.4	1594.1	1578.3	1573.0	1569.5	1571.3	1569.5	1567.8	1571.3
20°	1592.4	1587.1	1585.3	1576.6	1560.7	1551.9	1544.9	1541.4	1543.1	1537.8	1539.6
22.5°	1576.6	1569.5	1566.0	1555.4	1539.6	1529.0	1520.2	1513.2	1511.4	1504.4	1506.2
25°	1557.2	1548.4	1543.1	1534.3	1516.7	1504.4	1493.9	1483.3	1478.0	1469.2	1467.5
27.5°	1534.3	1525.5	1518.5	1509.7	1492.1	1476.3	1463.9	1449.9	1442.8	1432.3	1427.0
30°	1511.4	1500.9	1490.3	1483.3	1463.9	1446.3	1427.0	1414.7	1404.1	1391.8	1383.0
32.5°	1483.3	1472.7	1462.2	1451.6	1434.0	1412.9	1397.1	1377.7	1365.4	1351.3	1340.8
35°	1455.1	1441.1	1430.5	1416.4	1400.6	1376.0	1356.6	1337.3	1321.4	1305.6	1293.3
37.5°	1423.5	1412.9	1397.1	1384.8	1365.4	1340.8	1319.7	1295.0	1280.9	1259.8	1244.0
40°	1393.6	1381.2	1365.4	1349.6	1330.2	1302.1	1279.2	1251.0	1235.2	1210.6	1194.7
42.5°	1363.6	1346.1	1330.2	1312.6	1291.5	1265.1	1237.0	1208.8	1187.7	1164.8	1141.9
45°	1330.2	1310.9	1291.5	1272.1	1251.0	1224.6	1194.7	1164.8	1138.4	1117.3	1089.2
47.5°	1295.0	1275.7	1252.8	1231.7	1208.8	1182.4	1150.7	1119.1	1090.9	1066.3	1036.4
50°	1259.8	1240.5	1215.8	1193.0	1166.6	1140.2	1106.8	1069.8	1039.9	1008.2	981.8
52.5°	1222.9	1203.5	1180.7	1150.7	1122.6	1096.2	1061.0	1022.3	988.9	962.5	929.0
55°	1185.9	1166.6	1140.2	1110.3	1082.1	1048.7	1015.3	976.5	939.6	907.9	874.5
57.5°	1147.2	1129.6	1099.7	1075.1	1039.9	1004.7	969.5	932.6	892.1	855.1	816.4
60°	1108.5	1089.2	1061.0	1031.1	995.9	960.7	923.8	883.3	841.1	800.6	765.4
62.5°	1073.3	1048.7	1022.3	990.6	953.7	920.2	878.0	834.0	791.8	749.6	707.3
65°	1032.9	1006.5	981.8	950.2	911.4	872.7	830.5	786.5	740.8	695.0	652.8
67.5°	992.4	966.0	939.6	907.9	867.5	827.0	783.0	739.0	688.0	644.0	594.7
70°	951.9	930.8	897.4	863.9	827.0	783.0	739.0	691.5	638.7	591.2	540.2
72.5°	911.4	890.3	856.9	821.7	786.5	740.8	693.3	645.8	596.5	541.9	487.4
75°	872.7	846.3	816.4	783.0	746.0	698.5	651.0	601.8	543.7	492.7	436.4
77.5°	835.8	811.1	781.2	744.3	703.8	658.1	608.8	557.8	499.7	445.2	383.6
80°	795.3	770.7	740.8	703.8	663.3	619.4	566.6	513.8	457.5	397.7	334.3
82.5°	756.6	733.7	700.3	666.9	622.9	578.9	526.1	473.3	413.5	355.4	293.8
85°	716.1	693.3	661.6	626.4	584.2	536.7	487.4	434.6	374.8	315.0	253.4
87.5°	680.9	654.5	622.9	587.7	545.5	499.7	452.2	395.9	337.8	279.8	216.4
90°	644.0	619.4	587.7	552.5	510.3	464.5	415.3	362.5	306.2	246.3	186.5
92.5°	612.3	585.9	556.0	520.8	478.6	434.6	385.3	332.6	278.0	219.9	161.9
95°	580.6	554.3	526.1	490.9	448.7	404.7	355.4	304.4	251.6	195.3	140.8
97.5°	545.5	522.6	494.4	461.0	418.8	376.5	329.0	279.8	228.7	174.2	123.2
100°	517.3	490.9	464.5	429.3	390.6	350.1	302.6	255.1	205.9	154.8	107.3
102.5°	485.6	461.0	434.6	401.2	362.5	322.0	278.0	232.3	186.5	139.0	93.3
105°	455.7	432.8	404.7	373.0	336.1	297.4	255.1	212.9	168.9	123.2	82.7
107.5°	425.8	402.9	376.5	346.6	311.4	272.7	234.0	191.8	151.3	110.9	73.9
110°	395.9	374.8	350.1	320.2	286.8	251.6	214.7	176.0	135.5	98.5	65.1

TEST NUMBER: P1213992

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	369.5	348.4	323.8	295.6	263.9	230.5	195.3	158.4	121.4	88.0	56.3
115°	343.1	323.8	299.1	274.5	242.8	211.1	177.7	142.5	109.1	79.2	49.3
117.5°	316.7	297.4	274.5	249.9	221.7	191.8	160.1	126.7	98.5	70.4	44.0
120°	290.3	272.7	251.6	228.7	204.1	174.2	142.5	114.4	88.0	61.6	38.7
122.5°	265.7	249.9	230.5	209.4	183.0	154.8	128.4	103.8	79.2	54.5	31.7
125°	242.8	227.0	209.4	188.3	163.6	139.0	116.1	93.3	68.6	47.5	26.4
127.5°	219.9	204.1	186.5	167.2	147.8	124.9	103.8	82.7	61.6	42.2	22.9
130°	197.1	183.0	167.2	151.3	132.0	110.9	93.3	72.1	52.8	33.4	19.4
132.5°	174.2	163.6	149.6	133.7	116.1	100.3	80.9	63.3	45.7	29.9	17.6
135°	154.8	144.3	132.0	117.9	103.8	88.0	70.4	54.5	38.7	24.6	14.1
137.5°	137.2	128.4	116.1	103.8	91.5	75.7	61.6	45.7	31.7	21.1	10.6
140°	121.4	112.6	102.1	89.7	79.2	65.1	51.0	37.0	28.2	17.6	8.8
142.5°	105.6	96.8	88.0	77.4	66.9	54.5	42.2	31.7	22.9	14.1	8.8
145°	89.7	82.7	73.9	65.1	54.5	44.0	35.2	26.4	17.6	10.6	7.0
147.5°	73.9	68.6	59.8	52.8	44.0	35.2	28.2	21.1	14.1	8.8	5.3
150°	59.8	54.5	47.5	40.5	35.2	28.2	22.9	15.8	10.6	8.8	5.3
152.5°	45.7	42.2	37.0	33.4	28.2	21.1	15.8	12.3	8.8	7.0	3.5
155°	37.0	33.4	29.9	24.6	21.1	15.8	12.3	8.8	7.0	5.3	3.5
157.5°	26.4	24.6	21.1	17.6	14.1	10.6	8.8	8.8	5.3	3.5	1.8
160°	17.6	15.8	14.1	10.6	8.8	8.8	7.0	5.3	3.5	3.5	1.8
162.5°	10.6	8.8	8.8	8.8	7.0	7.0	5.3	3.5	3.5	1.8	1.8
165°	7.0	7.0	7.0	5.3	5.3	5.3	3.5	1.8	1.8	1.8	1.8
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: P1213992

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0
2.5°	1669.8	1664.5	1671.6	1683.9	1685.6	1683.9	1680.4	1685.6	1692.7	1690.9	1678.6
5°	1666.3	1659.2	1666.3	1678.6	1678.6	1676.8	1675.1	1680.4	1687.4	1685.6	1675.1
7.5°	1655.7	1648.7	1655.7	1666.3	1668.0	1664.5	1664.5	1669.8	1676.8	1675.1	1666.3
10°	1641.7	1634.6	1638.1	1650.5	1654.0	1650.5	1650.5	1655.7	1664.5	1662.8	1652.2
12.5°	1620.5	1615.3	1618.8	1629.3	1632.9	1631.1	1629.3	1636.4	1645.2	1645.2	1634.6
15°	1597.7	1590.6	1594.1	1606.5	1608.2	1604.7	1606.5	1611.7	1622.3	1622.3	1613.5
17.5°	1571.3	1562.5	1567.8	1576.6	1578.3	1578.3	1578.3	1585.3	1597.7	1595.9	1588.9
20°	1541.4	1529.0	1532.6	1541.4	1544.9	1544.9	1544.9	1557.2	1566.0	1566.0	1559.0
22.5°	1506.2	1497.4	1497.4	1506.2	1511.4	1509.7	1509.7	1520.2	1532.6	1530.8	1530.8
25°	1465.7	1458.7	1455.1	1465.7	1467.5	1469.2	1472.7	1483.3	1497.4	1497.4	1499.1
27.5°	1423.5	1416.4	1414.7	1423.5	1425.2	1427.0	1430.5	1442.8	1456.9	1458.7	1462.2
30°	1383.0	1372.4	1368.9	1376.0	1379.5	1381.2	1381.2	1400.6	1412.9	1418.2	1425.2
32.5°	1335.5	1324.9	1316.1	1328.5	1330.2	1333.7	1335.5	1354.8	1368.9	1377.7	1388.3
35°	1288.0	1270.4	1266.9	1275.7	1279.2	1280.9	1284.5	1305.6	1324.9	1332.0	1346.1
37.5°	1235.2	1222.9	1212.3	1221.1	1224.6	1226.4	1237.0	1256.3	1275.7	1286.2	1300.3
40°	1185.9	1170.1	1161.3	1166.6	1170.1	1171.9	1184.2	1205.3	1228.2	1240.5	1258.1
42.5°	1131.4	1110.3	1103.2	1108.5	1110.3	1115.6	1126.1	1154.3	1177.1	1194.7	1208.8
45°	1076.8	1061.0	1045.2	1050.4	1052.2	1055.7	1071.6	1101.5	1126.1	1147.2	1163.1
47.5°	1020.5	1001.2	985.3	988.9	995.9	997.7	1015.3	1050.4	1073.3	1096.2	1117.3
50°	964.2	937.8	925.5	925.5	929.0	937.8	960.7	995.9	1020.5	1046.9	1069.8
52.5°	906.2	881.5	867.5	869.2	872.7	883.3	904.4	939.6	967.7	995.9	1024.1
55°	848.1	821.7	807.6	804.1	807.6	821.7	846.3	883.3	911.4	944.9	974.8
57.5°	790.0	758.4	746.0	740.8	744.3	761.9	786.5	825.2	860.4	892.1	927.3
60°	726.7	702.1	680.9	668.6	677.4	700.3	726.7	767.2	804.1	839.3	878.0
62.5°	672.1	640.5	617.6	605.3	614.1	633.4	670.4	709.1	749.6	790.0	828.7
65°	610.6	578.9	552.5	540.2	549.0	571.9	608.8	651.0	695.0	735.5	781.2
67.5°	550.7	517.3	485.6	473.3	483.9	508.5	549.0	596.5	644.0	686.2	735.5
70°	492.7	455.7	422.3	413.5	420.5	454.0	492.7	540.2	589.4	638.7	689.7
72.5°	439.9	394.1	358.9	348.4	357.2	394.1	438.1	487.4	540.2	593.0	647.5
75°	378.3	336.1	297.4	285.0	295.6	329.0	383.6	436.4	492.7	549.0	600.0
77.5°	329.0	279.8	239.3	219.9	237.5	279.8	332.6	388.9	446.9	505.0	563.1
80°	278.0	227.0	183.0	161.9	181.2	227.0	279.8	341.4	406.5	464.5	517.3
82.5°	232.3	177.7	132.0	109.1	130.2	181.2	239.3	300.9	364.2	422.3	483.9
85°	190.0	133.7	86.2	61.6	91.5	137.2	198.8	262.2	327.3	387.1	446.9
87.5°	154.8	100.3	52.8	26.4	56.3	107.3	165.4	228.7	293.8	353.7	410.0
90°	126.7	72.1	28.2	3.5	33.4	80.9	137.2	198.8	260.4	322.0	378.3
92.5°	103.8	54.5	15.8	1.8	21.1	65.1	117.9	176.0	235.8	295.6	350.1
95°	86.2	42.2	10.6	1.8	15.8	51.0	100.3	156.6	212.9	271.0	325.5
97.5°	73.9	35.2	8.8	1.8	12.3	44.0	86.2	139.0	193.5	248.1	300.9
100°	63.3	28.2	7.0	1.8	10.6	37.0	75.7	123.2	174.2	227.0	278.0
102.5°	54.5	22.9	5.3	1.8	8.8	31.7	66.9	110.9	156.6	207.6	256.9
105°	47.5	19.4	5.3	1.8	7.0	28.2	59.8	98.5	144.3	190.0	237.5
107.5°	40.5	15.8	3.5	1.8	5.3	22.9	52.8	89.7	130.2	174.2	218.2
110°	35.2	14.1	3.5	1.8	5.3	21.1	45.7	80.9	117.9	158.4	200.6

TEST NUMBER: P1213992

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	29.9	10.6	3.5	1.8	3.5	17.6	40.5	72.1	107.3	144.3	184.8
115°	26.4	8.8	1.8	1.8	3.5	15.8	37.0	65.1	96.8	132.0	168.9
117.5°	21.1	7.0	1.8	1.8	1.8	12.3	31.7	58.1	88.0	121.4	154.8
120°	17.6	7.0	1.8	1.8	1.8	10.6	28.2	51.0	79.2	109.1	140.8
122.5°	15.8	5.3	1.8	1.8	1.8	8.8	24.6	45.7	70.4	98.5	128.4
125°	14.1	5.3	1.8	1.8	1.8	7.0	21.1	40.5	63.3	88.0	116.1
127.5°	10.6	5.3	1.8	1.8	1.8	5.3	19.4	35.2	56.3	79.2	103.8
130°	8.8	3.5	1.8	1.8	1.8	5.3	15.8	31.7	49.3	70.4	93.3
132.5°	7.0	3.5	1.8	1.8	1.8	3.5	12.3	24.6	42.2	61.6	82.7
135°	7.0	3.5	1.8	1.8	1.8	3.5	8.8	21.1	35.2	52.8	70.4
137.5°	7.0	1.8	1.8	1.8	1.8	3.5	7.0	15.8	28.2	42.2	58.1
140°	5.3	1.8	1.8	1.8	1.8	1.8	5.3	12.3	22.9	35.2	49.3
142.5°	5.3	1.8	1.8	1.8	1.8	1.8	5.3	8.8	17.6	28.2	38.7
145°	3.5	1.8	1.8	1.8	1.8	1.8	3.5	7.0	14.1	21.1	31.7
147.5°	3.5	1.8	1.8	1.8	1.8	1.8	3.5	5.3	10.6	17.6	24.6
150°	3.5	1.8	1.8	1.8	1.8	1.8	3.5	5.3	7.0	12.3	19.4
152.5°	1.8	1.8	1.8	1.8	1.8	1.8	3.5	3.5	5.3	8.8	12.3
155°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.5	5.3	7.0	8.8
157.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.5	3.5	5.3	7.0
160°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.5	3.5	5.3
162.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.5	3.5
165°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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: P1213992

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0
2.5°	1673.3	1661.0	1664.5	1662.8	1666.3	1671.6	1671.6	1669.8	1669.8	1666.3	1662.8
5°	1669.8	1657.5	1662.8	1661.0	1664.5	1669.8	1669.8	1668.0	1668.0	1662.8	1661.0
7.5°	1659.2	1650.5	1654.0	1654.0	1657.5	1662.8	1662.8	1661.0	1661.0	1655.7	1654.0
10°	1648.7	1638.1	1643.4	1643.4	1646.9	1654.0	1654.0	1652.2	1652.2	1646.9	1645.2
12.5°	1631.1	1620.5	1629.3	1631.1	1634.6	1641.7	1639.9	1639.9	1639.9	1634.6	1632.9
15°	1610.0	1602.9	1611.7	1613.5	1618.8	1627.6	1627.6	1627.6	1627.6	1622.3	1620.5
17.5°	1587.1	1581.8	1590.6	1594.1	1601.2	1610.0	1610.0	1611.7	1613.5	1610.0	1608.2
20°	1560.7	1557.2	1566.0	1573.0	1583.6	1592.4	1595.9	1597.7	1601.2	1597.7	1595.9
22.5°	1530.8	1530.8	1543.1	1550.2	1562.5	1571.3	1576.6	1581.8	1585.3	1581.8	1580.1
25°	1497.4	1502.6	1515.0	1527.3	1541.4	1550.2	1555.4	1562.5	1566.0	1564.2	1562.5
27.5°	1465.7	1472.7	1488.6	1500.9	1513.2	1527.3	1532.6	1541.4	1544.9	1544.9	1543.1
30°	1428.7	1439.3	1456.9	1471.0	1486.8	1500.9	1507.9	1516.7	1522.0	1518.5	1520.2
32.5°	1393.6	1411.2	1425.2	1441.1	1458.7	1472.7	1481.5	1492.1	1497.4	1495.6	1497.4
35°	1354.8	1372.4	1391.8	1407.6	1428.7	1442.8	1455.1	1463.9	1471.0	1469.2	1469.2
37.5°	1312.6	1335.5	1354.8	1376.0	1395.3	1411.2	1423.5	1434.0	1441.1	1441.1	1441.1
40°	1272.1	1296.8	1316.1	1340.8	1365.4	1379.5	1393.6	1404.1	1411.2	1412.9	1414.7
42.5°	1228.2	1254.6	1277.4	1303.8	1328.5	1346.1	1361.9	1374.2	1381.2	1384.8	1383.0
45°	1187.7	1212.3	1238.7	1268.6	1291.5	1309.1	1328.5	1342.5	1349.6	1351.3	1353.1
47.5°	1141.9	1170.1	1200.0	1229.9	1252.8	1275.7	1293.3	1307.3	1314.4	1319.7	1319.7
50°	1098.0	1127.9	1161.3	1193.0	1217.6	1240.5	1258.1	1273.9	1282.7	1286.2	1288.0
52.5°	1057.5	1085.6	1120.8	1152.5	1177.1	1200.0	1222.9	1240.5	1249.3	1252.8	1252.8
55°	1008.2	1043.4	1082.1	1112.0	1138.4	1164.8	1187.7	1205.3	1214.1	1219.4	1222.9
57.5°	962.5	999.4	1039.9	1071.6	1103.2	1127.9	1149.0	1171.9	1178.9	1185.9	1187.7
60°	918.5	955.4	994.1	1029.3	1061.0	1087.4	1112.0	1131.4	1143.7	1147.2	1150.7
62.5°	872.7	911.4	951.9	987.1	1020.5	1052.2	1075.1	1092.7	1106.8	1112.0	1115.6
65°	828.7	869.2	909.7	946.6	981.8	1013.5	1036.4	1054.0	1068.0	1076.8	1078.6
67.5°	781.2	825.2	867.5	906.2	941.4	974.8	997.7	1015.3	1029.3	1039.9	1041.6
70°	737.2	783.0	825.2	867.5	902.6	936.1	960.7	978.3	994.1	1001.2	1004.7
72.5°	695.0	742.5	786.5	828.7	863.9	897.4	923.8	941.4	957.2	966.0	967.7
75°	654.5	702.1	749.6	790.0	827.0	860.4	886.8	906.2	920.2	929.0	932.6
77.5°	614.1	663.3	710.9	751.3	790.0	823.5	846.3	869.2	883.3	893.8	893.8
80°	573.6	624.6	673.9	714.4	753.1	783.0	809.4	832.3	846.3	856.9	856.9
82.5°	538.4	587.7	635.2	675.7	714.4	747.8	774.2	795.3	811.1	818.2	819.9
85°	498.0	552.5	596.5	640.5	677.4	709.1	735.5	758.4	772.4	779.5	783.0
87.5°	464.5	517.3	564.8	603.5	640.5	672.1	702.1	721.4	735.5	744.3	747.8
90°	432.8	483.9	531.4	570.1	608.8	638.7	666.9	686.2	702.1	709.1	712.6
92.5°	404.7	455.7	501.5	540.2	577.1	610.6	637.0	656.3	670.4	677.4	682.7
95°	378.3	427.6	471.6	513.8	549.0	578.9	607.0	626.4	642.2	647.5	652.8
97.5°	351.9	399.4	443.4	483.9	520.8	549.0	575.4	594.7	607.0	615.8	621.1
100°	329.0	374.8	417.0	455.7	490.9	517.3	545.5	563.1	575.4	582.4	589.4
102.5°	304.4	350.1	390.6	427.6	464.5	489.2	515.5	533.1	543.7	556.0	556.0
105°	283.3	325.5	366.0	401.2	432.8	462.8	485.6	503.2	515.5	524.3	524.3
107.5°	260.4	302.6	341.4	378.3	408.2	436.4	457.5	473.3	487.4	492.7	498.0
110°	242.8	279.8	318.5	353.7	381.8	408.2	429.3	446.9	459.2	464.5	468.0

TEST NUMBER: P1213992

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	221.7	260.4	295.6	329.0	357.2	381.8	402.9	417.0	429.3	436.4	438.1
115°	204.1	241.1	272.7	304.4	334.3	355.4	374.8	388.9	401.2	406.5	410.0
117.5°	188.3	221.7	253.4	279.8	307.9	330.8	350.1	362.5	373.0	380.1	383.6
120°	172.4	204.1	232.3	258.7	285.0	306.2	323.8	336.1	348.4	353.7	353.7
122.5°	156.6	186.5	212.9	237.5	262.2	281.5	300.9	311.4	322.0	327.3	327.3
125°	142.5	170.7	195.3	218.2	241.1	258.7	274.5	286.8	297.4	300.9	300.9
127.5°	128.4	154.8	177.7	198.8	218.2	235.8	251.6	263.9	272.7	276.2	276.2
130°	116.1	139.0	160.1	181.2	200.6	214.7	230.5	241.1	246.3	251.6	253.4
132.5°	103.8	124.9	144.3	161.9	181.2	195.3	207.6	218.2	223.5	228.7	230.5
135°	91.5	110.9	128.4	146.0	161.9	176.0	186.5	195.3	202.3	205.9	207.6
137.5°	77.4	98.5	114.4	128.4	146.0	156.6	168.9	174.2	181.2	184.8	184.8
140°	65.1	80.9	98.5	112.6	126.7	137.2	147.8	156.6	161.9	163.6	163.6
142.5°	52.8	66.9	80.9	98.5	110.9	119.6	130.2	137.2	140.8	142.5	144.3
145°	42.2	52.8	65.1	80.9	95.0	105.6	110.9	117.9	121.4	123.2	124.9
147.5°	31.7	42.2	52.8	63.3	77.4	88.0	93.3	100.3	103.8	105.6	105.6
150°	24.6	31.7	38.7	49.3	59.8	72.1	79.2	84.5	86.2	88.0	88.0
152.5°	17.6	24.6	29.9	37.0	44.0	54.5	65.1	68.6	70.4	72.1	72.1
155°	12.3	17.6	21.1	26.4	31.7	40.5	49.3	54.5	56.3	58.1	58.1
157.5°	8.8	12.3	14.1	19.4	22.9	26.4	33.4	42.2	44.0	44.0	44.0
160°	5.3	7.0	8.8	12.3	14.1	17.6	21.1	26.4	31.7	31.7	31.7
162.5°	3.5	5.3	5.3	7.0	7.0	10.6	12.3	14.1	19.4	21.1	21.1
165°	1.8	3.5	3.5	3.5	3.5	3.5	5.3	5.3	8.8	10.6	10.6
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: P1213992

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0
2.5°	1664.5	1668.0	1666.3	1666.3	1666.3	1669.8	1666.3	1650.5	1654.0	1657.5	1661.0
5°	1662.8	1664.5	1664.5	1662.8	1662.8	1666.3	1662.8	1646.9	1650.5	1654.0	1655.7
7.5°	1655.7	1657.5	1657.5	1657.5	1655.7	1659.2	1654.0	1639.9	1639.9	1643.4	1645.2
10°	1646.9	1650.5	1648.7	1646.9	1646.9	1646.9	1643.4	1627.6	1627.6	1629.3	1631.1
12.5°	1636.4	1636.4	1636.4	1634.6	1632.9	1632.9	1629.3	1613.5	1611.7	1615.3	1613.5
15°	1622.3	1625.8	1622.3	1620.5	1617.0	1617.0	1611.7	1595.9	1592.4	1594.1	1592.4
17.5°	1610.0	1611.7	1608.2	1604.7	1601.2	1599.4	1594.1	1576.6	1571.3	1573.0	1569.5
20°	1597.7	1597.7	1594.1	1590.6	1585.3	1580.1	1573.0	1555.4	1546.6	1546.6	1539.6
22.5°	1581.8	1581.8	1578.3	1573.0	1567.8	1560.7	1553.7	1536.1	1522.0	1518.5	1513.2
25°	1564.2	1562.5	1560.7	1555.4	1544.9	1537.8	1530.8	1511.4	1495.6	1488.6	1479.8
27.5°	1543.1	1543.1	1537.8	1532.6	1522.0	1513.2	1504.4	1486.8	1465.7	1456.9	1444.6
30°	1520.2	1520.2	1515.0	1507.9	1497.4	1486.8	1476.3	1455.1	1434.0	1421.7	1407.6
32.5°	1497.4	1495.6	1490.3	1483.3	1472.7	1456.9	1448.1	1427.0	1402.4	1388.3	1368.9
35°	1469.2	1467.5	1462.2	1453.4	1439.3	1427.0	1412.9	1393.6	1365.4	1347.8	1326.7
37.5°	1441.1	1439.3	1435.8	1423.5	1409.4	1395.3	1377.7	1358.4	1332.0	1309.1	1288.0
40°	1412.9	1411.2	1404.1	1395.3	1377.7	1360.1	1342.5	1323.2	1295.0	1268.6	1245.8
42.5°	1383.0	1381.2	1372.4	1361.9	1342.5	1324.9	1303.8	1282.7	1254.6	1222.9	1200.0
45°	1353.1	1349.6	1340.8	1328.5	1307.3	1288.0	1266.9	1242.2	1214.1	1184.2	1154.3
47.5°	1321.4	1316.1	1307.3	1289.7	1272.1	1251.0	1226.4	1200.0	1171.9	1138.4	1106.8
50°	1286.2	1282.7	1272.1	1256.3	1235.2	1214.1	1185.9	1159.5	1126.1	1094.4	1055.7
52.5°	1252.8	1245.8	1237.0	1219.4	1198.2	1175.4	1145.5	1113.8	1080.4	1050.4	1010.0
55°	1217.6	1214.1	1201.8	1187.7	1161.3	1134.9	1106.8	1073.3	1036.4	1001.2	962.5
57.5°	1184.2	1177.1	1166.6	1147.2	1124.3	1098.0	1068.0	1032.9	992.4	955.4	913.2
60°	1150.7	1140.2	1127.9	1110.3	1085.6	1057.5	1025.8	988.9	948.4	907.9	863.9
62.5°	1113.8	1105.0	1090.9	1073.3	1048.7	1018.8	985.3	946.6	907.9	865.7	818.2
65°	1076.8	1068.0	1054.0	1036.4	1011.7	978.3	943.1	904.4	860.4	819.9	768.9
67.5°	1039.9	1031.1	1015.3	995.9	971.3	939.6	902.6	862.2	818.2	774.2	721.4
70°	1002.9	992.4	978.3	957.2	932.6	899.1	862.2	819.9	776.0	728.5	675.7
72.5°	966.0	957.2	939.6	920.2	893.8	860.4	823.5	781.2	735.5	686.2	633.4
75°	929.0	918.5	906.2	883.3	855.1	823.5	784.8	742.5	693.3	645.8	591.2
77.5°	892.1	883.3	867.5	844.6	818.2	784.8	746.0	703.8	654.5	605.3	547.2
80°	855.1	844.6	832.3	811.1	781.2	747.8	707.3	665.1	615.8	564.8	506.7
82.5°	818.2	807.6	793.6	772.4	744.3	710.9	672.1	626.4	577.1	524.3	469.8
85°	781.2	772.4	756.6	735.5	705.6	672.1	633.4	593.0	540.2	487.4	432.8
87.5°	744.3	735.5	719.7	698.5	670.4	637.0	598.2	556.0	505.0	455.7	395.9
90°	709.1	702.1	686.2	665.1	637.0	603.5	568.3	522.6	473.3	424.0	367.7
92.5°	677.4	670.4	656.3	635.2	610.6	573.6	538.4	494.4	445.2	394.1	339.6
95°	649.3	640.5	626.4	607.0	577.1	545.5	510.3	466.3	418.8	367.7	315.0
97.5°	617.6	608.8	594.7	573.6	549.0	515.5	480.4	438.1	390.6	343.1	290.3
100°	585.9	577.1	561.3	543.7	519.1	485.6	452.2	410.0	366.0	320.2	269.2
102.5°	554.3	545.5	531.4	513.8	489.2	459.2	425.8	385.3	341.4	295.6	248.1
105°	524.3	515.5	501.5	483.9	461.0	431.1	395.9	360.7	318.5	274.5	228.7
107.5°	494.4	485.6	473.3	455.7	432.8	404.7	371.3	334.3	295.6	253.4	209.4
110°	464.5	457.5	443.4	427.6	404.7	376.5	346.6	311.4	272.7	234.0	191.8

TEST NUMBER: P1213992

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	436.4	429.3	415.3	397.7	378.3	351.9	322.0	288.6	251.6	214.7	174.2
115°	408.2	399.4	387.1	371.3	351.9	327.3	299.1	269.2	232.3	197.1	160.1
117.5°	380.1	373.0	360.7	344.9	327.3	302.6	276.2	248.1	212.9	179.5	146.0
120°	351.9	346.6	334.3	320.2	302.6	279.8	255.1	227.0	195.3	163.6	132.0
122.5°	325.5	320.2	307.9	295.6	278.0	256.9	234.0	207.6	179.5	149.6	121.4
125°	300.9	293.8	283.3	271.0	255.1	235.8	212.9	188.3	161.9	135.5	109.1
127.5°	274.5	269.2	262.2	248.1	232.3	214.7	193.5	172.4	147.8	123.2	98.5
130°	253.4	246.3	237.5	227.0	212.9	195.3	176.0	154.8	133.7	110.9	86.2
132.5°	228.7	221.7	214.7	204.1	191.8	176.0	158.4	139.0	119.6	98.5	77.4
135°	205.9	200.6	193.5	183.0	170.7	158.4	140.8	123.2	105.6	86.2	68.6
137.5°	184.8	179.5	172.4	165.4	153.1	140.8	124.9	109.1	93.3	75.7	59.8
140°	163.6	160.1	153.1	146.0	135.5	123.2	109.1	95.0	80.9	65.1	51.0
142.5°	142.5	139.0	133.7	126.7	117.9	107.3	95.0	82.7	68.6	56.3	44.0
145°	123.2	121.4	116.1	109.1	102.1	91.5	80.9	70.4	58.1	47.5	35.2
147.5°	103.8	102.1	98.5	93.3	86.2	77.4	68.6	58.1	49.3	38.7	28.2
150°	86.2	84.5	82.7	75.7	72.1	63.3	56.3	47.5	40.5	29.9	22.9
152.5°	70.4	70.4	66.9	61.6	58.1	51.0	45.7	38.7	31.7	24.6	17.6
155°	56.3	54.5	52.8	49.3	45.7	40.5	35.2	29.9	24.6	17.6	12.3
157.5°	44.0	42.2	40.5	37.0	33.4	31.7	26.4	21.1	15.8	12.3	8.8
160°	31.7	29.9	28.2	26.4	24.6	21.1	17.6	14.1	10.6	7.0	5.3
162.5°	21.1	19.4	19.4	17.6	15.8	12.3	10.6	8.8	7.0	5.3	3.5
165°	10.6	10.6	8.8	8.8	7.0	5.3	5.3	5.3	3.5	3.5	1.8
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: P1213992

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0	1668.0
2.5°	1659.2	1659.2	1666.3	1664.5	1659.2	1669.8	1682.1
5°	1654.0	1654.0	1659.2	1659.2	1654.0	1664.5	1675.1
7.5°	1645.2	1643.4	1648.7	1648.7	1641.7	1650.5	1662.8
10°	1629.3	1627.6	1632.9	1632.9	1625.8	1634.6	1645.2
12.5°	1611.7	1608.2	1613.5	1611.7	1604.7	1613.5	1624.1
15°	1588.9	1587.1	1590.6	1587.1	1580.1	1588.9	1599.4
17.5°	1566.0	1560.7	1562.5	1562.5	1550.2	1559.0	1567.8
20°	1536.1	1529.0	1530.8	1529.0	1520.2	1525.5	1536.1
22.5°	1506.2	1495.6	1495.6	1493.9	1483.3	1490.3	1499.1
25°	1469.2	1456.9	1456.9	1455.1	1442.8	1448.1	1456.9
27.5°	1432.3	1420.0	1414.7	1412.9	1400.6	1400.6	1412.9
30°	1393.6	1376.0	1372.4	1367.2	1354.8	1354.8	1365.4
32.5°	1356.6	1332.0	1324.9	1317.9	1305.6	1303.8	1316.1
35°	1307.3	1288.0	1275.7	1268.6	1254.6	1251.0	1261.6
37.5°	1266.9	1242.2	1224.6	1215.8	1201.8	1196.5	1210.6
40°	1222.9	1196.5	1173.6	1168.3	1147.2	1140.2	1152.5
42.5°	1173.6	1145.5	1122.6	1112.0	1096.2	1089.2	1090.9
45°	1124.3	1094.4	1069.8	1055.7	1039.9	1027.6	1034.6
47.5°	1073.3	1046.9	1017.0	995.9	976.5	967.7	971.3
50°	1022.3	990.6	962.5	939.6	916.7	906.2	913.2
52.5°	971.3	937.8	906.2	881.5	855.1	844.6	846.3
55°	922.0	886.8	849.9	823.5	798.8	783.0	779.5
57.5°	872.7	834.0	795.3	765.4	733.7	719.7	714.4
60°	819.9	779.5	739.0	703.8	670.4	654.5	647.5
62.5°	770.7	726.7	680.9	644.0	610.6	589.4	584.2
65°	723.2	672.1	626.4	584.2	547.2	524.3	517.3
67.5°	672.1	619.4	570.1	524.3	489.2	459.2	455.7
70°	624.6	568.3	513.8	466.3	427.6	397.7	383.6
72.5°	577.1	519.1	462.8	411.7	362.5	334.3	323.8
75°	531.4	471.6	411.7	358.9	304.4	271.0	260.4
77.5°	489.2	427.6	364.2	306.2	255.1	212.9	198.8
80°	448.7	385.3	318.5	258.7	204.1	158.4	142.5
82.5°	406.5	346.6	278.0	214.7	158.4	110.9	91.5
85°	369.5	309.7	241.1	177.7	121.4	70.4	49.3
87.5°	339.6	274.5	212.9	149.6	91.5	40.5	14.1
90°	309.7	246.3	184.8	123.2	68.6	22.9	1.8
92.5°	283.3	223.5	161.9	105.6	52.8	15.8	1.8
95°	258.7	200.6	142.5	88.0	42.2	10.6	1.8
97.5°	235.8	181.2	126.7	75.7	35.2	8.8	1.8
100°	216.4	163.6	112.6	66.9	29.9	7.0	1.8
102.5°	197.1	147.8	100.3	58.1	26.4	5.3	1.8
105°	181.2	133.7	89.7	52.8	22.9	5.3	1.8
107.5°	165.4	121.4	80.9	45.7	19.4	3.5	1.8
110°	149.6	110.9	72.1	40.5	17.6	3.5	1.8

TEST NUMBER: P1213992

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	137.2	100.3	65.1	37.0	14.1	3.5	1.8
115°	124.9	89.7	58.1	31.7	12.3	1.8	1.8
117.5°	112.6	80.9	51.0	28.2	10.6	1.8	1.8
120°	102.1	72.1	45.7	24.6	8.8	1.8	1.8
122.5°	91.5	65.1	40.5	21.1	7.0	1.8	1.8
125°	82.7	58.1	35.2	17.6	5.3	1.8	1.8
127.5°	73.9	51.0	31.7	15.8	5.3	1.8	1.8
130°	65.1	45.7	26.4	12.3	3.5	1.8	1.8
132.5°	58.1	38.7	22.9	10.6	3.5	1.8	1.8
135°	51.0	33.4	19.4	7.0	3.5	1.8	1.8
137.5°	44.0	28.2	15.8	5.3	1.8	1.8	1.8
140°	37.0	24.6	12.3	5.3	1.8	1.8	1.8
142.5°	31.7	19.4	8.8	3.5	1.8	1.8	1.8
145°	24.6	15.8	7.0	3.5	1.8	1.8	1.8
147.5°	19.4	12.3	5.3	3.5	1.8	1.8	1.8
150°	14.1	8.8	5.3	1.8	1.8	1.8	1.8
152.5°	10.6	7.0	3.5	1.8	1.8	1.8	1.8
155°	7.0	5.3	3.5	1.8	1.8	1.8	1.8
157.5°	5.3	3.5	1.8	1.8	1.8	1.8	1.8
160°	3.5	1.8	1.8	1.8	1.8	1.8	1.8
162.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8
165°	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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)