

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8SNLED-LD5-81SL-LW-UNV-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33520)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-81SL-LW-UNV-L935-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
WIDE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

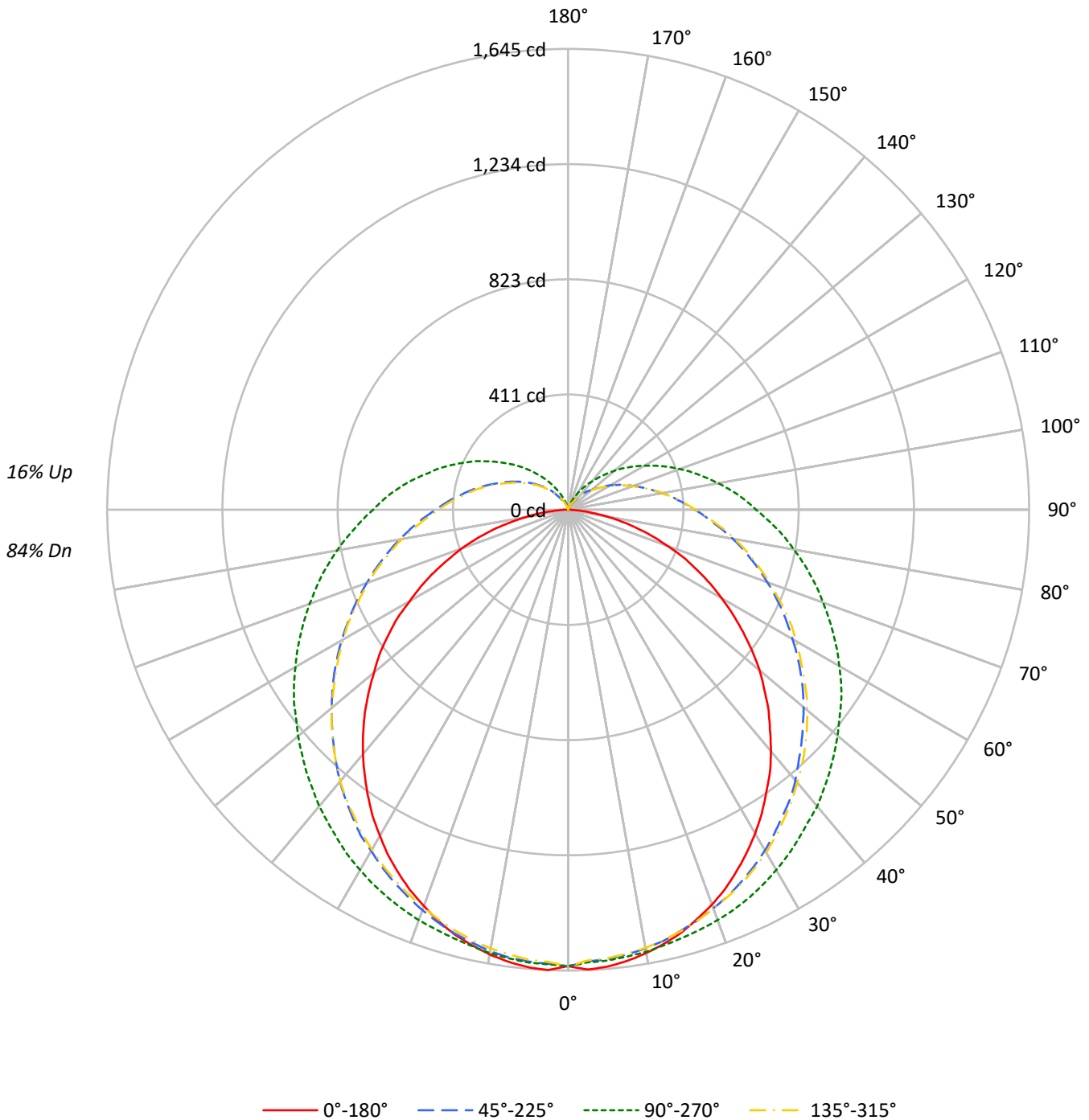
Lumens per Lamp: N/A  
Luminaire Lumens: 7079.0 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Semi-Direct

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: 25 FT



TEST NUMBER: P#  
CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L935-CD1-U

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	50	30	10	50	30	10	50	30	10	0																
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°	6584	6584	6584	6584
5°	6628	6344	6641	6372
10°	6575	6164	6596	6184
15°	6508	6010	6537	6017
20°	6415	5897	6437	5897
25°	6299	5797	6337	5791
30°	6167	5694	6215	5694
35°	6013	5599	6080	5606
40°	5861	5543	5933	5543
45°	5686	5484	5773	5491
50°	5505	5449	5579	5464
55°	5247	5455	5413	5478
60°	4977	5471	5139	5505
65°	4674	5526	4882	5581
70°	4244	5628	4575	5708
75°	3753	5812	4107	5923
80°	2975	6084	3379	6225
85°	1892	6521	2368	6702



TEST NUMBER: P#

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.4	2.2
10°-20°	443.6	6.3
20°-30°	680.1	9.6
30°-40°	839.1	11.9
40°-50°	910.3	12.9
50°-60°	897.3	12.7
60°-70°	811.2	11.5
70°-80°	675.8	9.5
80°-90°	523.4	7.4
90°-100°	397.0	5.6
100°-110°	293.8	4.2
110°-120°	204.4	2.9
120°-130°	130.4	1.8
130°-140°	73.2	1.0
140°-150°	33.4	0.5
150°-160°	10.4	0.1
160°-170°	1.3	0.0
170°-180°	0.0	0.0
0°-30°	1278.1	18.1
0°-40°	2117.2	29.9
0°-60°	3924.8	55.4
0°-90°	5935.3	83.8
90°-120°	895.1	12.6
90°-150°	1132.1	16.0
90°-180°	1144.0	16.2
0°-180°	7079.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1629	1629	1629	1629	1629	
5°	1636	1616	1640	1622	1636	155
15°	1562	1581	1569	1583	1562	440
25°	1423	1528	1432	1526	1423	656
35°	1232	1433	1246	1435	1232	772
45°	1011	1320	1026	1322	1011	779
55°	761	1189	786	1194	761	681
65°	505	1043	528	1054	505	501
75°	254	894	278	911	254	269
85°	48	744	60	765	48	58
90°	2	670	3	696	2	3
95°	2	608	2	638	2	1
105°	2	483	2	512	2	2
115°	2	368	2	400	2	2
125°	2	265	2	294	2	2
135°	2	172	2	203	2	1
145°	2	100	2	122	2	1
155°	2	41	2	57	2	1
165°	2	7	2	10	2	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4
2.5°	1643.1	1643.1	1641.4	1638.0	1639.7	1644.8	1641.4	1632.8	1627.7	1613.9	1617.3
5°	1636.3	1636.3	1634.5	1631.1	1632.8	1639.7	1636.3	1629.4	1622.5	1610.5	1615.6
7.5°	1624.2	1624.2	1622.5	1619.1	1622.5	1629.4	1625.9	1619.1	1613.9	1601.9	1607.0
10°	1607.0	1608.8	1607.0	1601.9	1608.8	1615.6	1613.9	1605.3	1600.2	1589.8	1595.0
12.5°	1586.4	1588.1	1586.4	1584.7	1588.1	1598.4	1595.0	1588.1	1584.7	1576.1	1581.3
15°	1562.3	1564.1	1560.6	1560.6	1564.1	1574.4	1574.4	1567.5	1564.1	1555.5	1565.8
17.5°	1531.4	1533.1	1531.4	1531.4	1534.8	1545.2	1546.9	1543.4	1540.0	1536.6	1546.9
20°	1500.5	1498.8	1498.8	1497.0	1503.9	1519.4	1517.7	1517.7	1514.2	1514.2	1526.3
22.5°	1464.4	1464.4	1462.7	1462.7	1471.3	1485.0	1485.0	1488.4	1485.0	1491.9	1502.2
25°	1423.1	1424.8	1423.1	1426.6	1433.4	1448.9	1450.6	1455.8	1457.5	1464.4	1476.4
27.5°	1380.2	1381.9	1380.2	1383.6	1395.6	1407.7	1416.3	1423.1	1424.8	1435.2	1450.6
30°	1333.8	1333.8	1335.5	1338.9	1352.7	1371.6	1378.4	1387.0	1387.0	1404.2	1419.7
32.5°	1285.6	1285.6	1285.6	1292.5	1308.0	1330.3	1338.9	1349.2	1352.7	1369.8	1387.0
35°	1232.3	1234.1	1234.1	1239.2	1259.8	1282.2	1294.2	1306.3	1313.1	1333.8	1350.9
37.5°	1182.5	1185.9	1180.8	1187.7	1216.9	1235.8	1249.5	1261.6	1273.6	1301.1	1314.8
40°	1125.8	1129.2	1127.5	1141.3	1165.3	1189.4	1204.8	1216.9	1234.1	1261.6	1277.0
42.5°	1065.6	1069.1	1072.5	1088.0	1113.8	1137.8	1156.7	1172.2	1192.8	1216.9	1242.7
45°	1010.6	1010.6	1015.8	1034.7	1062.2	1088.0	1110.3	1127.5	1151.6	1177.3	1203.1
47.5°	948.8	950.5	957.3	979.7	1008.9	1039.8	1060.5	1082.8	1108.6	1136.1	1165.3
50°	892.0	892.0	902.3	926.4	953.9	988.3	1010.6	1036.4	1063.9	1096.6	1125.8
52.5°	826.7	830.2	845.6	868.0	904.1	935.0	960.8	988.3	1020.9	1055.3	1088.0
55°	761.4	768.3	780.3	811.3	849.1	878.3	909.2	943.6	974.5	1012.3	1050.2
57.5°	697.8	703.0	721.9	752.8	792.3	828.4	861.1	893.8	931.6	969.4	1008.9
60°	632.5	639.4	661.7	692.7	735.6	773.4	811.3	845.6	885.2	924.7	965.9
62.5°	570.6	575.8	601.6	637.7	680.6	721.9	759.7	800.9	843.9	881.7	923.0
65°	505.3	513.9	543.1	575.8	625.6	666.9	709.8	754.5	799.2	840.5	880.0
67.5°	445.2	450.3	481.3	519.1	568.9	615.3	660.0	708.1	754.5	797.5	837.0
70°	374.7	391.9	422.8	462.3	515.6	563.8	611.9	661.7	711.6	756.3	794.1
72.5°	316.3	330.0	364.4	407.3	458.9	515.6	565.5	618.8	668.6	715.0	754.5
75°	254.4	268.1	307.7	355.8	409.1	469.2	520.8	575.8	627.3	673.8	715.0
77.5°	194.2	211.4	254.4	304.2	362.7	424.5	477.8	532.8	586.1	635.9	677.2
80°	139.2	158.1	204.5	261.3	318.0	379.8	438.3	493.3	546.6	596.4	639.4
82.5°	89.4	110.0	159.8	216.6	276.7	338.6	398.8	453.8	507.0	556.9	601.6
85°	48.1	70.5	122.0	178.8	238.9	300.8	360.9	419.4	470.9	517.3	565.5
87.5°	13.8	41.3	91.1	147.8	209.7	266.4	324.8	383.3	434.8	484.7	527.7
90°	1.7	24.1	68.8	122.0	182.2	237.2	295.6	350.6	402.2	452.0	495.0
92.5°	1.7	15.5	53.3	101.4	156.4	213.1	271.6	324.8	373.0	422.8	465.8
95°	1.7	12.0	43.0	85.9	137.5	190.8	245.8	297.3	347.2	393.6	436.6
97.5°	1.7	8.6	34.4	73.9	120.3	170.2	223.4	275.0	323.1	367.8	407.3
100°	1.7	6.9	27.5	63.6	104.8	153.0	201.1	250.9	297.3	340.3	381.6
102.5°	1.7	5.2	24.1	53.3	92.8	135.8	182.2	228.6	273.3	314.5	355.8
105°	1.7	5.2	20.6	46.4	82.5	122.0	165.0	209.7	250.9	290.5	328.3
107.5°	1.7	3.4	17.2	39.5	72.2	110.0	149.5	192.5	230.3	268.1	304.2
110°	1.7	3.4	13.8	36.1	63.6	98.0	135.8	175.3	211.4	247.5	281.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.7	3.4	12.0	30.9	55.0	87.7	122.0	158.1	192.5	228.6	259.5
115°	1.7	3.4	10.3	27.5	51.6	75.6	110.0	142.7	177.0	209.7	238.9
117.5°	1.7	3.4	8.6	22.3	44.7	68.8	96.3	128.9	159.8	190.8	218.3
120°	1.7	3.4	6.9	20.6	39.5	61.9	85.9	115.2	144.4	173.6	202.8
122.5°	1.7	1.7	6.9	17.2	34.4	55.0	79.1	101.4	128.9	156.4	182.2
125°	1.7	1.7	6.9	15.5	29.2	49.8	70.5	91.1	115.2	139.2	161.6
127.5°	1.7	1.7	5.2	12.0	25.8	43.0	61.9	84.2	101.4	123.8	146.1
130°	1.7	1.7	5.2	10.3	22.3	36.1	55.0	73.9	94.5	110.0	128.9
132.5°	1.7	1.7	5.2	8.6	17.2	29.2	46.4	63.6	82.5	99.7	115.2
135°	1.7	1.7	3.4	6.9	13.8	24.1	37.8	53.3	72.2	89.4	104.8
137.5°	1.7	1.7	3.4	6.9	10.3	20.6	29.2	43.0	60.2	75.6	91.1
140°	1.7	1.7	3.4	5.2	8.6	15.5	24.1	34.4	48.1	61.9	79.1
142.5°	1.7	1.7	1.7	5.2	6.9	12.0	18.9	27.5	37.8	49.8	63.6
145°	1.7	1.7	1.7	5.2	6.9	8.6	15.5	22.3	29.2	37.8	49.8
147.5°	1.7	1.7	1.7	3.4	5.2	6.9	12.0	17.2	22.3	29.2	36.1
150°	1.7	1.7	1.7	3.4	5.2	6.9	8.6	12.0	17.2	24.1	29.2
152.5°	1.7	1.7	1.7	3.4	3.4	5.2	6.9	8.6	12.0	17.2	20.6
155°	1.7	1.7	1.7	1.7	3.4	5.2	6.9	6.9	8.6	12.0	15.5
157.5°	1.7	1.7	1.7	1.7	3.4	3.4	5.2	5.2	6.9	6.9	10.3
160°	1.7	1.7	1.7	1.7	1.7	3.4	3.4	5.2	5.2	5.2	5.2
162.5°	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4	5.2	5.2
165°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4
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: 8SNLED-LD5-81SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4
2.5°	1617.3	1619.1	1624.2	1624.2	1620.8	1620.8	1619.1	1617.3	1619.1	1622.5	1622.5
5°	1613.9	1615.6	1620.8	1622.5	1619.1	1617.3	1617.3	1615.6	1617.3	1620.8	1620.8
7.5°	1607.0	1608.8	1613.9	1615.6	1612.2	1612.2	1610.5	1608.8	1612.2	1613.9	1613.9
10°	1596.7	1598.4	1605.3	1607.0	1605.3	1603.6	1603.6	1601.9	1603.6	1607.0	1607.0
12.5°	1583.0	1586.4	1595.0	1595.0	1595.0	1593.3	1593.3	1591.6	1593.3	1596.7	1595.0
15°	1567.5	1574.4	1581.3	1584.7	1584.7	1584.7	1583.0	1581.3	1584.7	1586.4	1584.7
17.5°	1550.3	1558.9	1569.2	1572.7	1572.7	1574.4	1572.7	1570.9	1574.4	1574.4	1572.7
20°	1533.1	1541.7	1552.0	1555.5	1558.9	1560.6	1560.6	1558.9	1560.6	1562.3	1560.6
22.5°	1510.8	1521.1	1533.1	1538.3	1541.7	1545.2	1545.2	1545.2	1546.9	1548.6	1545.2
25°	1486.7	1498.8	1512.5	1517.7	1524.5	1526.3	1528.0	1528.0	1529.7	1531.4	1526.3
27.5°	1460.9	1474.7	1488.4	1497.0	1502.2	1505.6	1505.6	1507.3	1509.1	1510.8	1505.6
30°	1430.0	1450.6	1462.7	1469.5	1476.4	1481.6	1483.3	1485.0	1486.7	1488.4	1483.3
32.5°	1402.5	1419.7	1435.2	1443.8	1452.3	1459.2	1460.9	1460.9	1464.4	1464.4	1459.2
35°	1369.8	1390.5	1405.9	1414.5	1424.8	1430.0	1433.4	1433.4	1436.9	1436.9	1431.7
37.5°	1337.2	1357.8	1375.0	1385.3	1397.3	1404.2	1405.9	1405.9	1409.4	1409.4	1402.5
40°	1302.8	1325.2	1344.1	1356.1	1366.4	1375.0	1376.7	1381.9	1381.9	1380.2	1373.3
42.5°	1268.4	1289.1	1309.7	1323.4	1337.2	1345.8	1349.2	1350.9	1350.9	1349.2	1344.1
45°	1230.6	1254.7	1273.6	1290.8	1304.5	1313.1	1318.3	1320.0	1320.0	1316.6	1311.4
47.5°	1194.5	1218.6	1237.5	1256.4	1270.2	1280.5	1285.6	1287.3	1285.6	1283.9	1278.8
50°	1156.7	1184.2	1203.1	1222.0	1235.8	1244.4	1253.0	1254.7	1253.0	1251.3	1240.9
52.5°	1117.2	1146.4	1167.0	1185.9	1201.4	1211.7	1218.6	1220.3	1220.3	1216.9	1210.0
55°	1077.7	1103.4	1129.2	1149.8	1167.0	1177.3	1185.9	1189.4	1185.9	1182.5	1173.9
57.5°	1041.6	1065.6	1091.4	1113.8	1130.9	1144.7	1151.6	1155.0	1151.6	1146.4	1137.8
60°	998.6	1024.4	1053.6	1074.2	1093.1	1106.9	1110.3	1117.2	1113.8	1108.6	1100.0
62.5°	957.3	988.3	1014.1	1039.8	1055.3	1070.8	1077.7	1081.1	1077.7	1072.5	1063.9
65°	914.4	948.8	974.5	1000.3	1017.5	1033.0	1041.6	1043.3	1039.8	1034.7	1026.1
67.5°	874.8	907.5	935.0	962.5	978.0	993.4	1002.0	1005.5	1002.0	995.2	986.6
70°	835.3	868.0	900.6	921.3	940.2	957.3	962.5	967.7	964.2	957.3	947.0
72.5°	795.8	830.2	862.8	883.4	904.1	919.5	926.4	931.6	928.1	921.3	909.2
75°	754.5	790.6	823.3	845.6	866.3	881.7	888.6	893.8	890.3	883.4	869.7
77.5°	716.7	752.8	783.8	807.8	828.4	842.2	854.2	855.9	852.5	845.6	831.9
80°	677.2	713.3	745.9	770.0	790.6	804.4	813.0	818.1	814.7	807.8	794.1
82.5°	642.8	675.5	708.1	732.2	752.8	770.0	776.9	782.0	780.3	770.0	759.7
85°	605.0	642.8	668.6	694.4	715.0	732.2	737.3	744.2	742.5	733.9	720.2
87.5°	567.2	605.0	635.9	661.7	680.6	694.4	703.0	706.4	704.7	696.1	680.6
90°	536.3	570.6	601.6	629.1	644.5	660.0	668.6	670.3	670.3	660.0	648.0
92.5°	507.0	539.7	570.6	596.4	615.3	629.1	635.9	639.4	637.7	629.1	615.3
95°	474.4	510.5	539.7	565.5	584.4	598.1	605.0	608.4	606.7	598.1	584.4
97.5°	446.9	479.5	508.8	532.8	551.7	565.5	572.3	575.8	575.8	567.2	553.4
100°	419.4	452.0	479.5	503.6	520.8	534.5	541.4	543.1	541.4	534.5	520.8
102.5°	391.9	422.8	450.3	472.7	491.6	503.6	510.5	512.2	512.2	503.6	489.8
105°	364.4	395.3	421.1	445.2	460.6	472.7	477.8	483.0	481.3	474.4	460.6
107.5°	338.6	369.5	393.6	415.9	431.4	443.4	448.6	453.8	452.0	445.2	431.4
110°	314.5	343.8	366.1	388.4	402.2	414.2	422.8	424.5	421.1	414.2	402.2





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	292.2	318.0	340.3	360.9	376.4	385.0	391.9	395.3	391.9	385.0	376.4
115°	268.1	293.9	316.3	335.2	348.9	359.2	364.4	367.8	364.4	357.5	348.9
117.5°	245.8	269.8	292.2	311.1	323.1	331.7	336.9	340.3	336.9	331.7	323.1
120°	226.9	247.5	268.1	285.3	299.1	305.9	311.1	314.5	312.8	305.9	297.3
122.5°	204.5	226.9	245.8	263.0	275.0	281.9	285.3	288.8	287.0	281.9	273.3
125°	185.6	204.5	223.4	238.9	250.9	257.8	261.3	264.7	263.0	257.8	247.5
127.5°	165.0	185.6	201.1	216.6	225.2	235.5	237.2	240.6	238.9	233.8	225.2
130°	149.5	165.0	180.5	194.2	204.5	211.4	214.8	216.6	213.1	209.7	201.1
132.5°	130.6	147.8	161.6	173.6	180.5	187.3	190.8	192.5	192.5	187.3	180.5
135°	116.9	128.9	140.9	153.0	159.8	166.7	170.2	171.9	170.2	166.7	159.8
137.5°	104.8	115.2	123.8	134.1	142.7	146.1	149.5	149.5	147.8	146.1	140.9
140°	91.1	103.1	111.7	118.6	125.5	127.2	130.6	130.6	128.9	127.2	123.8
142.5°	77.3	87.7	96.3	104.8	110.0	113.4	115.2	116.9	115.2	113.4	108.3
145°	61.9	73.9	82.5	87.7	94.5	96.3	98.0	99.7	98.0	96.3	91.1
147.5°	48.1	58.4	67.0	73.9	79.1	80.8	82.5	84.2	82.5	79.1	77.3
150°	34.4	43.0	53.3	60.2	63.6	67.0	67.0	67.0	68.8	65.3	61.9
152.5°	27.5	30.9	37.8	44.7	49.8	51.6	53.3	53.3	51.6	51.6	48.1
155°	18.9	22.3	27.5	32.7	37.8	39.5	41.3	41.3	39.5	39.5	37.8
157.5°	12.0	15.5	18.9	22.3	27.5	29.2	30.9	30.9	30.9	29.2	27.5
160°	6.9	8.6	10.3	13.8	17.2	18.9	20.6	20.6	20.6	20.6	18.9
162.5°	5.2	5.2	5.2	6.9	8.6	10.3	12.0	12.0	12.0	12.0	10.3
165°	3.4	3.4	3.4	3.4	3.4	5.2	6.9	6.9	6.9	6.9	6.9
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: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4
2.5°	1620.8	1620.8	1622.5	1619.1	1608.8	1610.5	1610.5	1617.3	1620.8	1622.5	1631.1
5°	1617.3	1617.3	1620.8	1615.6	1607.0	1607.0	1607.0	1613.9	1615.6	1619.1	1625.9
7.5°	1612.2	1612.2	1613.9	1608.8	1598.4	1598.4	1596.7	1603.6	1607.0	1608.8	1615.6
10°	1603.6	1603.6	1605.3	1600.2	1588.1	1588.1	1586.4	1591.6	1593.3	1596.7	1601.9
12.5°	1591.6	1591.6	1591.6	1586.4	1574.4	1572.7	1570.9	1576.1	1576.1	1577.8	1583.0
15°	1581.3	1577.8	1577.8	1572.7	1560.6	1557.2	1553.8	1555.5	1558.9	1557.2	1560.6
17.5°	1569.2	1565.8	1562.3	1557.2	1541.7	1536.6	1533.1	1534.8	1533.1	1531.4	1534.8
20°	1555.5	1550.3	1548.6	1540.0	1524.5	1515.9	1509.1	1505.6	1507.3	1502.2	1503.9
22.5°	1540.0	1533.1	1529.7	1519.4	1503.9	1493.6	1485.0	1478.1	1476.4	1469.5	1471.3
25°	1521.1	1512.5	1507.3	1498.8	1481.6	1469.5	1459.2	1448.9	1443.8	1435.2	1433.4
27.5°	1498.8	1490.2	1483.3	1474.7	1457.5	1442.0	1430.0	1416.3	1409.4	1399.1	1393.9
30°	1476.4	1466.1	1455.8	1448.9	1430.0	1412.8	1393.9	1381.9	1371.6	1359.5	1350.9
32.5°	1448.9	1438.6	1428.3	1418.0	1400.8	1380.2	1364.7	1345.8	1333.8	1320.0	1309.7
35°	1421.4	1407.7	1397.3	1383.6	1368.1	1344.1	1325.2	1306.3	1290.8	1275.3	1263.3
37.5°	1390.5	1380.2	1364.7	1352.7	1333.8	1309.7	1289.1	1265.0	1251.3	1230.6	1215.2
40°	1361.3	1349.2	1333.8	1318.3	1299.4	1271.9	1249.5	1222.0	1206.6	1182.5	1167.0
42.5°	1332.0	1314.8	1299.4	1282.2	1261.6	1235.8	1208.3	1180.8	1160.2	1137.8	1115.5
45°	1299.4	1280.5	1261.6	1242.7	1222.0	1196.3	1167.0	1137.8	1112.0	1091.4	1063.9
47.5°	1265.0	1246.1	1223.8	1203.1	1180.8	1155.0	1124.1	1093.1	1065.6	1041.6	1012.3
50°	1230.6	1211.7	1187.7	1165.3	1139.5	1113.8	1081.1	1045.0	1015.8	984.8	959.1
52.5°	1194.5	1175.6	1153.3	1124.1	1096.6	1070.8	1036.4	998.6	965.9	940.2	907.5
55°	1158.4	1139.5	1113.8	1084.5	1057.0	1024.4	991.7	953.9	917.8	886.9	854.2
57.5°	1120.6	1103.4	1074.2	1050.2	1015.8	981.4	947.0	910.9	871.4	835.3	797.5
60°	1082.8	1063.9	1036.4	1007.2	972.8	938.4	902.3	862.8	821.6	782.0	747.7
62.5°	1048.4	1024.4	998.6	967.7	931.6	898.9	857.7	814.7	773.4	732.2	690.9
65°	1008.9	983.1	959.1	928.1	890.3	852.5	811.3	768.3	723.6	678.9	637.7
67.5°	969.4	943.6	917.8	886.9	847.3	807.8	764.8	721.9	672.0	629.1	580.9
70°	929.8	909.2	876.6	843.9	807.8	764.8	721.9	675.5	623.9	577.5	527.7
72.5°	890.3	869.7	837.0	802.7	768.3	723.6	677.2	630.8	582.7	529.4	476.1
75°	852.5	826.7	797.5	764.8	728.8	682.3	635.9	587.8	531.1	481.3	426.3
77.5°	816.4	792.3	763.1	727.0	687.5	642.8	594.7	544.8	488.1	434.8	374.7
80°	776.9	752.8	723.6	687.5	648.0	605.0	553.4	501.9	446.9	388.4	326.6
82.5°	739.1	716.7	684.1	651.4	608.4	565.5	513.9	462.3	403.9	347.2	287.0
85°	699.5	677.2	646.3	611.9	570.6	524.2	476.1	424.5	366.1	307.7	247.5
87.5°	665.2	639.4	608.4	574.1	532.8	488.1	441.7	386.7	330.0	273.3	211.4
90°	629.1	605.0	574.1	539.7	498.4	453.8	405.6	354.1	299.1	240.6	182.2
92.5°	598.1	572.3	543.1	508.8	467.5	424.5	376.4	324.8	271.6	214.8	158.1
95°	567.2	541.4	513.9	479.5	438.3	395.3	347.2	297.3	245.8	190.8	137.5
97.5°	532.8	510.5	483.0	450.3	409.1	367.8	321.4	273.3	223.4	170.2	120.3
100°	505.3	479.5	453.8	419.4	381.6	342.0	295.6	249.2	201.1	151.3	104.8
102.5°	474.4	450.3	424.5	391.9	354.1	314.5	271.6	226.9	182.2	135.8	91.1
105°	445.2	422.8	395.3	364.4	328.3	290.5	249.2	208.0	165.0	120.3	80.8
107.5°	415.9	393.6	367.8	338.6	304.2	266.4	228.6	187.3	147.8	108.3	72.2
110°	386.7	366.1	342.0	312.8	280.2	245.8	209.7	171.9	132.3	96.3	63.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	360.9	340.3	316.3	288.8	257.8	225.2	190.8	154.7	118.6	85.9	55.0
115°	335.2	316.3	292.2	268.1	237.2	206.3	173.6	139.2	106.6	77.3	48.1
117.5°	309.4	290.5	268.1	244.1	216.6	187.3	156.4	123.8	96.3	68.8	43.0
120°	283.6	266.4	245.8	223.4	199.4	170.2	139.2	111.7	85.9	60.2	37.8
122.5°	259.5	244.1	225.2	204.5	178.8	151.3	125.5	101.4	77.3	53.3	30.9
125°	237.2	221.7	204.5	183.9	159.8	135.8	113.4	91.1	67.0	46.4	25.8
127.5°	214.8	199.4	182.2	163.3	144.4	122.0	101.4	80.8	60.2	41.3	22.3
130°	192.5	178.8	163.3	147.8	128.9	108.3	91.1	70.5	51.6	32.7	18.9
132.5°	170.2	159.8	146.1	130.6	113.4	98.0	79.1	61.9	44.7	29.2	17.2
135°	151.3	140.9	128.9	115.2	101.4	85.9	68.8	53.3	37.8	24.1	13.8
137.5°	134.1	125.5	113.4	101.4	89.4	73.9	60.2	44.7	30.9	20.6	10.3
140°	118.6	110.0	99.7	87.7	77.3	63.6	49.8	36.1	27.5	17.2	8.6
142.5°	103.1	94.5	85.9	75.6	65.3	53.3	41.3	30.9	22.3	13.8	8.6
145°	87.7	80.8	72.2	63.6	53.3	43.0	34.4	25.8	17.2	10.3	6.9
147.5°	72.2	67.0	58.4	51.6	43.0	34.4	27.5	20.6	13.8	8.6	5.2
150°	58.4	53.3	46.4	39.5	34.4	27.5	22.3	15.5	10.3	8.6	5.2
152.5°	44.7	41.3	36.1	32.7	27.5	20.6	15.5	12.0	8.6	6.9	3.4
155°	36.1	32.7	29.2	24.1	20.6	15.5	12.0	8.6	6.9	5.2	3.4
157.5°	25.8	24.1	20.6	17.2	13.8	10.3	8.6	8.6	5.2	3.4	1.7
160°	17.2	15.5	13.8	10.3	8.6	8.6	6.9	5.2	3.4	3.4	1.7
162.5°	10.3	8.6	8.6	8.6	6.9	6.9	5.2	3.4	3.4	1.7	1.7
165°	6.9	6.9	6.9	5.2	5.2	5.2	3.4	1.7	1.7	1.7	1.7
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: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4
2.5°	1631.1	1625.9	1632.8	1644.8	1646.6	1644.8	1641.4	1646.6	1653.4	1651.7	1639.7
5°	1627.7	1620.8	1627.7	1639.7	1639.7	1638.0	1636.3	1641.4	1648.3	1646.6	1636.3
7.5°	1617.3	1610.5	1617.3	1627.7	1629.4	1625.9	1625.9	1631.1	1638.0	1636.3	1627.7
10°	1603.6	1596.7	1600.2	1612.2	1615.6	1612.2	1612.2	1617.3	1625.9	1624.2	1613.9
12.5°	1583.0	1577.8	1581.3	1591.6	1595.0	1593.3	1591.6	1598.4	1607.0	1607.0	1596.7
15°	1560.6	1553.8	1557.2	1569.2	1570.9	1567.5	1569.2	1574.4	1584.7	1584.7	1576.1
17.5°	1534.8	1526.3	1531.4	1540.0	1541.7	1541.7	1541.7	1548.6	1560.6	1558.9	1552.0
20°	1505.6	1493.6	1497.0	1505.6	1509.1	1509.1	1509.1	1521.1	1529.7	1529.7	1522.8
22.5°	1471.3	1462.7	1462.7	1471.3	1476.4	1474.7	1474.7	1485.0	1497.0	1495.3	1495.3
25°	1431.7	1424.8	1421.4	1431.7	1433.4	1435.2	1438.6	1448.9	1462.7	1462.7	1464.4
27.5°	1390.5	1383.6	1381.9	1390.5	1392.2	1393.9	1397.3	1409.4	1423.1	1424.8	1428.3
30°	1350.9	1340.6	1337.2	1344.1	1347.5	1349.2	1349.2	1368.1	1380.2	1385.3	1392.2
32.5°	1304.5	1294.2	1285.6	1297.7	1299.4	1302.8	1304.5	1323.4	1337.2	1345.8	1356.1
35°	1258.1	1240.9	1237.5	1246.1	1249.5	1251.3	1254.7	1275.3	1294.2	1301.1	1314.8
37.5°	1206.6	1194.5	1184.2	1192.8	1196.3	1198.0	1208.3	1227.2	1246.1	1256.4	1270.2
40°	1158.4	1143.0	1134.4	1139.5	1143.0	1144.7	1156.7	1177.3	1199.7	1211.7	1228.9
42.5°	1105.2	1084.5	1077.7	1082.8	1084.5	1089.7	1100.0	1127.5	1149.8	1167.0	1180.8
45°	1051.9	1036.4	1020.9	1026.1	1027.8	1031.3	1046.7	1075.9	1100.0	1120.6	1136.1
47.5°	996.9	978.0	962.5	965.9	972.8	974.5	991.7	1026.1	1048.4	1070.8	1091.4
50°	941.9	916.1	904.1	904.1	907.5	916.1	938.4	972.8	996.9	1022.7	1045.0
52.5°	885.2	861.1	847.3	849.1	852.5	862.8	883.4	917.8	945.3	972.8	1000.3
55°	828.4	802.7	788.9	785.5	788.9	802.7	826.7	862.8	890.3	923.0	952.2
57.5°	771.7	740.8	728.8	723.6	727.0	744.2	768.3	806.1	840.5	871.4	905.8
60°	709.8	685.8	665.2	653.1	661.7	684.1	709.8	749.4	785.5	819.8	857.7
62.5°	656.6	625.6	603.3	591.3	599.8	618.8	654.8	692.7	732.2	771.7	809.5
65°	596.4	565.5	539.7	527.7	536.3	558.6	594.7	635.9	678.9	718.4	763.1
67.5°	538.0	505.3	474.4	462.3	472.7	496.7	536.3	582.7	629.1	670.3	718.4
70°	481.3	445.2	412.5	403.9	410.8	443.4	481.3	527.7	575.8	623.9	673.8
72.5°	429.7	385.0	350.6	340.3	348.9	385.0	428.0	476.1	527.7	579.2	632.5
75°	369.5	328.3	290.5	278.4	288.8	321.4	374.7	426.3	481.3	536.3	586.1
77.5°	321.4	273.3	233.8	214.8	232.0	273.3	324.8	379.8	436.6	493.3	550.0
80°	271.6	221.7	178.8	158.1	177.0	221.7	273.3	333.4	397.0	453.8	505.3
82.5°	226.9	173.6	128.9	106.6	127.2	177.0	233.8	293.9	355.8	412.5	472.7
85°	185.6	130.6	84.2	60.2	89.4	134.1	194.2	256.1	319.7	378.1	436.6
87.5°	151.3	98.0	51.6	25.8	55.0	104.8	161.6	223.4	287.0	345.5	400.5
90°	123.8	70.5	27.5	3.4	32.7	79.1	134.1	194.2	254.4	314.5	369.5
92.5°	101.4	53.3	15.5	1.7	20.6	63.6	115.2	171.9	230.3	288.8	342.0
95°	84.2	41.3	10.3	1.7	15.5	49.8	98.0	153.0	208.0	264.7	318.0
97.5°	72.2	34.4	8.6	1.7	12.0	43.0	84.2	135.8	189.1	242.3	293.9
100°	61.9	27.5	6.9	1.7	10.3	36.1	73.9	120.3	170.2	221.7	271.6
102.5°	53.3	22.3	5.2	1.7	8.6	30.9	65.3	108.3	153.0	202.8	250.9
105°	46.4	18.9	5.2	1.7	6.9	27.5	58.4	96.3	140.9	185.6	232.0
107.5°	39.5	15.5	3.4	1.7	5.2	22.3	51.6	87.7	127.2	170.2	213.1
110°	34.4	13.8	3.4	1.7	5.2	20.6	44.7	79.1	115.2	154.7	195.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	29.2	10.3	3.4	1.7	3.4	17.2	39.5	70.5	104.8	140.9	180.5
115°	25.8	8.6	1.7	1.7	3.4	15.5	36.1	63.6	94.5	128.9	165.0
117.5°	20.6	6.9	1.7	1.7	1.7	12.0	30.9	56.7	85.9	118.6	151.3
120°	17.2	6.9	1.7	1.7	1.7	10.3	27.5	49.8	77.3	106.6	137.5
122.5°	15.5	5.2	1.7	1.7	1.7	8.6	24.1	44.7	68.8	96.3	125.5
125°	13.8	5.2	1.7	1.7	1.7	6.9	20.6	39.5	61.9	85.9	113.4
127.5°	10.3	5.2	1.7	1.7	1.7	5.2	18.9	34.4	55.0	77.3	101.4
130°	8.6	3.4	1.7	1.7	1.7	5.2	15.5	30.9	48.1	68.8	91.1
132.5°	6.9	3.4	1.7	1.7	1.7	3.4	12.0	24.1	41.3	60.2	80.8
135°	6.9	3.4	1.7	1.7	1.7	3.4	8.6	20.6	34.4	51.6	68.8
137.5°	6.9	1.7	1.7	1.7	1.7	3.4	6.9	15.5	27.5	41.3	56.7
140°	5.2	1.7	1.7	1.7	1.7	1.7	5.2	12.0	22.3	34.4	48.1
142.5°	5.2	1.7	1.7	1.7	1.7	1.7	5.2	8.6	17.2	27.5	37.8
145°	3.4	1.7	1.7	1.7	1.7	1.7	3.4	6.9	13.8	20.6	30.9
147.5°	3.4	1.7	1.7	1.7	1.7	1.7	3.4	5.2	10.3	17.2	24.1
150°	3.4	1.7	1.7	1.7	1.7	1.7	3.4	5.2	6.9	12.0	18.9
152.5°	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	5.2	8.6	12.0
155°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	5.2	6.9	8.6
157.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	5.2	6.9
160°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	5.2
162.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4
165°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4
2.5°	1634.5	1622.5	1625.9	1624.2	1627.7	1632.8	1632.8	1631.1	1631.1	1627.7	1624.2
5°	1631.1	1619.1	1624.2	1622.5	1625.9	1631.1	1631.1	1629.4	1629.4	1624.2	1622.5
7.5°	1620.8	1612.2	1615.6	1615.6	1619.1	1624.2	1624.2	1622.5	1622.5	1617.3	1615.6
10°	1610.5	1600.2	1605.3	1605.3	1608.8	1615.6	1615.6	1613.9	1613.9	1608.8	1607.0
12.5°	1593.3	1583.0	1591.6	1593.3	1596.7	1603.6	1601.9	1601.9	1601.9	1596.7	1595.0
15°	1572.7	1565.8	1574.4	1576.1	1581.3	1589.8	1589.8	1589.8	1589.8	1584.7	1583.0
17.5°	1550.3	1545.2	1553.8	1557.2	1564.1	1572.7	1572.7	1574.4	1576.1	1572.7	1570.9
20°	1524.5	1521.1	1529.7	1536.6	1546.9	1555.5	1558.9	1560.6	1564.1	1560.6	1558.9
22.5°	1495.3	1495.3	1507.3	1514.2	1526.3	1534.8	1540.0	1545.2	1548.6	1545.2	1543.4
25°	1462.7	1467.8	1479.8	1491.9	1505.6	1514.2	1519.4	1526.3	1529.7	1528.0	1526.3
27.5°	1431.7	1438.6	1454.1	1466.1	1478.1	1491.9	1497.0	1505.6	1509.1	1509.1	1507.3
30°	1395.6	1405.9	1423.1	1436.9	1452.3	1466.1	1473.0	1481.6	1486.7	1483.3	1485.0
32.5°	1361.3	1378.4	1392.2	1407.7	1424.8	1438.6	1447.2	1457.5	1462.7	1460.9	1462.7
35°	1323.4	1340.6	1359.5	1375.0	1395.6	1409.4	1421.4	1430.0	1436.9	1435.2	1435.2
37.5°	1282.2	1304.5	1323.4	1344.1	1363.0	1378.4	1390.5	1400.8	1407.7	1407.7	1407.7
40°	1242.7	1266.7	1285.6	1309.7	1333.8	1347.5	1361.3	1371.6	1378.4	1380.2	1381.9
42.5°	1199.7	1225.5	1247.8	1273.6	1297.7	1314.8	1330.3	1342.3	1349.2	1352.7	1350.9
45°	1160.2	1184.2	1210.0	1239.2	1261.6	1278.8	1297.7	1311.4	1318.3	1320.0	1321.7
47.5°	1115.5	1143.0	1172.2	1201.4	1223.8	1246.1	1263.3	1277.0	1283.9	1289.1	1289.1
50°	1072.5	1101.7	1134.4	1165.3	1189.4	1211.7	1228.9	1244.4	1253.0	1256.4	1258.1
52.5°	1033.0	1060.5	1094.8	1125.8	1149.8	1172.2	1194.5	1211.7	1220.3	1223.8	1223.8
55°	984.8	1019.2	1057.0	1086.3	1112.0	1137.8	1160.2	1177.3	1185.9	1191.1	1194.5
57.5°	940.2	976.3	1015.8	1046.7	1077.7	1101.7	1122.3	1144.7	1151.6	1158.4	1160.2
60°	897.2	933.3	971.1	1005.5	1036.4	1062.2	1086.3	1105.2	1117.2	1120.6	1124.1
62.5°	852.5	890.3	929.8	964.2	996.9	1027.8	1050.2	1067.3	1081.1	1086.3	1089.7
65°	809.5	849.1	888.6	924.7	959.1	990.0	1012.3	1029.5	1043.3	1051.9	1053.6
67.5°	763.1	806.1	847.3	885.2	919.5	952.2	974.5	991.7	1005.5	1015.8	1017.5
70°	720.2	764.8	806.1	847.3	881.7	914.4	938.4	955.6	971.1	978.0	981.4
72.5°	678.9	725.3	768.3	809.5	843.9	876.6	902.3	919.5	935.0	943.6	945.3
75°	639.4	685.8	732.2	771.7	807.8	840.5	866.3	885.2	898.9	907.5	910.9
77.5°	599.8	648.0	694.4	733.9	771.7	804.4	826.7	849.1	862.8	873.1	873.1
80°	560.3	610.2	658.3	697.8	735.6	764.8	790.6	813.0	826.7	837.0	837.0
82.5°	525.9	574.1	620.5	660.0	697.8	730.5	756.3	776.9	792.3	799.2	800.9
85°	486.4	539.7	582.7	625.6	661.7	692.7	718.4	740.8	754.5	761.4	764.8
87.5°	453.8	505.3	551.7	589.5	625.6	656.6	685.8	704.7	718.4	727.0	730.5
90°	422.8	472.7	519.1	556.9	594.7	623.9	651.4	670.3	685.8	692.7	696.1
92.5°	395.3	445.2	489.8	527.7	563.8	596.4	622.2	641.1	654.8	661.7	666.9
95°	369.5	417.7	460.6	501.9	536.3	565.5	593.0	611.9	627.3	632.5	637.7
97.5°	343.8	390.2	433.1	472.7	508.8	536.3	562.0	580.9	593.0	601.6	606.7
100°	321.4	366.1	407.3	445.2	479.5	505.3	532.8	550.0	562.0	568.9	575.8
102.5°	297.3	342.0	381.6	417.7	453.8	477.8	503.6	520.8	531.1	543.1	543.1
105°	276.7	318.0	357.5	391.9	422.8	452.0	474.4	491.6	503.6	512.2	512.2
107.5°	254.4	295.6	333.4	369.5	398.8	426.3	446.9	462.3	476.1	481.3	486.4
110°	237.2	273.3	311.1	345.5	373.0	398.8	419.4	436.6	448.6	453.8	457.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	216.6	254.4	288.8	321.4	348.9	373.0	393.6	407.3	419.4	426.3	428.0
115°	199.4	235.5	266.4	297.3	326.6	347.2	366.1	379.8	391.9	397.0	400.5
117.5°	183.9	216.6	247.5	273.3	300.8	323.1	342.0	354.1	364.4	371.3	374.7
120°	168.4	199.4	226.9	252.7	278.4	299.1	316.3	328.3	340.3	345.5	345.5
122.5°	153.0	182.2	208.0	232.0	256.1	275.0	293.9	304.2	314.5	319.7	319.7
125°	139.2	166.7	190.8	213.1	235.5	252.7	268.1	280.2	290.5	293.9	293.9
127.5°	125.5	151.3	173.6	194.2	213.1	230.3	245.8	257.8	266.4	269.8	269.8
130°	113.4	135.8	156.4	177.0	195.9	209.7	225.2	235.5	240.6	245.8	247.5
132.5°	101.4	122.0	140.9	158.1	177.0	190.8	202.8	213.1	218.3	223.4	225.2
135°	89.4	108.3	125.5	142.7	158.1	171.9	182.2	190.8	197.7	201.1	202.8
137.5°	75.6	96.3	111.7	125.5	142.7	153.0	165.0	170.2	177.0	180.5	180.5
140°	63.6	79.1	96.3	110.0	123.8	134.1	144.4	153.0	158.1	159.8	159.8
142.5°	51.6	65.3	79.1	96.3	108.3	116.9	127.2	134.1	137.5	139.2	140.9
145°	41.3	51.6	63.6	79.1	92.8	103.1	108.3	115.2	118.6	120.3	122.0
147.5°	30.9	41.3	51.6	61.9	75.6	85.9	91.1	98.0	101.4	103.1	103.1
150°	24.1	30.9	37.8	48.1	58.4	70.5	77.3	82.5	84.2	85.9	85.9
152.5°	17.2	24.1	29.2	36.1	43.0	53.3	63.6	67.0	68.8	70.5	70.5
155°	12.0	17.2	20.6	25.8	30.9	39.5	48.1	53.3	55.0	56.7	56.7
157.5°	8.6	12.0	13.8	18.9	22.3	25.8	32.7	41.3	43.0	43.0	43.0
160°	5.2	6.9	8.6	12.0	13.8	17.2	20.6	25.8	30.9	30.9	30.9
162.5°	3.4	5.2	5.2	6.9	6.9	10.3	12.0	13.8	18.9	20.6	20.6
165°	1.7	3.4	3.4	3.4	3.4	3.4	5.2	5.2	8.6	10.3	10.3
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: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4
2.5°	1625.9	1629.4	1627.7	1627.7	1627.7	1631.1	1627.7	1612.2	1615.6	1619.1	1622.5
5°	1624.2	1625.9	1625.9	1624.2	1624.2	1627.7	1624.2	1608.8	1612.2	1615.6	1617.3
7.5°	1617.3	1619.1	1619.1	1619.1	1617.3	1620.8	1615.6	1601.9	1601.9	1605.3	1607.0
10°	1608.8	1612.2	1610.5	1608.8	1608.8	1608.8	1605.3	1589.8	1589.8	1591.6	1593.3
12.5°	1598.4	1598.4	1598.4	1596.7	1595.0	1595.0	1591.6	1576.1	1574.4	1577.8	1576.1
15°	1584.7	1588.1	1584.7	1583.0	1579.5	1579.5	1574.4	1558.9	1555.5	1557.2	1555.5
17.5°	1572.7	1574.4	1570.9	1567.5	1564.1	1562.3	1557.2	1540.0	1534.8	1536.6	1533.1
20°	1560.6	1560.6	1557.2	1553.8	1548.6	1543.4	1536.6	1519.4	1510.8	1510.8	1503.9
22.5°	1545.2	1545.2	1541.7	1536.6	1531.4	1524.5	1517.7	1500.5	1486.7	1483.3	1478.1
25°	1528.0	1526.3	1524.5	1519.4	1509.1	1502.2	1495.3	1476.4	1460.9	1454.1	1445.5
27.5°	1507.3	1507.3	1502.2	1497.0	1486.7	1478.1	1469.5	1452.3	1431.7	1423.1	1411.1
30°	1485.0	1485.0	1479.8	1473.0	1462.7	1452.3	1442.0	1421.4	1400.8	1388.8	1375.0
32.5°	1462.7	1460.9	1455.8	1448.9	1438.6	1423.1	1414.5	1393.9	1369.8	1356.1	1337.2
35°	1435.2	1433.4	1428.3	1419.7	1405.9	1393.9	1380.2	1361.3	1333.8	1316.6	1295.9
37.5°	1407.7	1405.9	1402.5	1390.5	1376.7	1363.0	1345.8	1326.9	1301.1	1278.8	1258.1
40°	1380.2	1378.4	1371.6	1363.0	1345.8	1328.6	1311.4	1292.5	1265.0	1239.2	1216.9
42.5°	1350.9	1349.2	1340.6	1330.3	1311.4	1294.2	1273.6	1253.0	1225.5	1194.5	1172.2
45°	1321.7	1318.3	1309.7	1297.7	1277.0	1258.1	1237.5	1213.4	1185.9	1156.7	1127.5
47.5°	1290.8	1285.6	1277.0	1259.8	1242.7	1222.0	1198.0	1172.2	1144.7	1112.0	1081.1
50°	1256.4	1253.0	1242.7	1227.2	1206.6	1185.9	1158.4	1132.7	1100.0	1069.1	1031.3
52.5°	1223.8	1216.9	1208.3	1191.1	1170.5	1148.1	1118.9	1088.0	1055.3	1026.1	986.6
55°	1189.4	1185.9	1173.9	1160.2	1134.4	1108.6	1081.1	1048.4	1012.3	978.0	940.2
57.5°	1156.7	1149.8	1139.5	1120.6	1098.3	1072.5	1043.3	1008.9	969.4	933.3	892.0
60°	1124.1	1113.8	1101.7	1084.5	1060.5	1033.0	1002.0	965.9	926.4	886.9	843.9
62.5°	1088.0	1079.4	1065.6	1048.4	1024.4	995.2	962.5	924.7	886.9	845.6	799.2
65°	1051.9	1043.3	1029.5	1012.3	988.3	955.6	921.3	883.4	840.5	800.9	751.1
67.5°	1015.8	1007.2	991.7	972.8	948.8	917.8	881.7	842.2	799.2	756.3	704.7
70°	979.7	969.4	955.6	935.0	910.9	878.3	842.2	800.9	758.0	711.6	660.0
72.5°	943.6	935.0	917.8	898.9	873.1	840.5	804.4	763.1	718.4	670.3	618.8
75°	907.5	897.2	885.2	862.8	835.3	804.4	766.6	725.3	677.2	630.8	577.5
77.5°	871.4	862.8	847.3	825.0	799.2	766.6	728.8	687.5	639.4	591.3	534.5
80°	835.3	825.0	813.0	792.3	763.1	730.5	690.9	649.7	601.6	551.7	495.0
82.5°	799.2	788.9	775.2	754.5	727.0	694.4	656.6	611.9	563.8	512.2	458.9
85°	763.1	754.5	739.1	718.4	689.2	656.6	618.8	579.2	527.7	476.1	422.8
87.5°	727.0	718.4	703.0	682.3	654.8	622.2	584.4	543.1	493.3	445.2	386.7
90°	692.7	685.8	670.3	649.7	622.2	589.5	555.2	510.5	462.3	414.2	359.2
92.5°	661.7	654.8	641.1	620.5	596.4	560.3	525.9	483.0	434.8	385.0	331.7
95°	634.2	625.6	611.9	593.0	563.8	532.8	498.4	455.5	409.1	359.2	307.7
97.5°	603.3	594.7	580.9	560.3	536.3	503.6	469.2	428.0	381.6	335.2	283.6
100°	572.3	563.8	548.3	531.1	507.0	474.4	441.7	400.5	357.5	312.8	263.0
102.5°	541.4	532.8	519.1	501.9	477.8	448.6	415.9	376.4	333.4	288.8	242.3
105°	512.2	503.6	489.8	472.7	450.3	421.1	386.7	352.3	311.1	268.1	223.4
107.5°	483.0	474.4	462.3	445.2	422.8	395.3	362.7	326.6	288.8	247.5	204.5
110°	453.8	446.9	433.1	417.7	395.3	367.8	338.6	304.2	266.4	228.6	187.3





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	426.3	419.4	405.6	388.4	369.5	343.8	314.5	281.9	245.8	209.7	170.2
115°	398.8	390.2	378.1	362.7	343.8	319.7	292.2	263.0	226.9	192.5	156.4
117.5°	371.3	364.4	352.3	336.9	319.7	295.6	269.8	242.3	208.0	175.3	142.7
120°	343.8	338.6	326.6	312.8	295.6	273.3	249.2	221.7	190.8	159.8	128.9
122.5°	318.0	312.8	300.8	288.8	271.6	250.9	228.6	202.8	175.3	146.1	118.6
125°	293.9	287.0	276.7	264.7	249.2	230.3	208.0	183.9	158.1	132.3	106.6
127.5°	268.1	263.0	256.1	242.3	226.9	209.7	189.1	168.4	144.4	120.3	96.3
130°	247.5	240.6	232.0	221.7	208.0	190.8	171.9	151.3	130.6	108.3	84.2
132.5°	223.4	216.6	209.7	199.4	187.3	171.9	154.7	135.8	116.9	96.3	75.6
135°	201.1	195.9	189.1	178.8	166.7	154.7	137.5	120.3	103.1	84.2	67.0
137.5°	180.5	175.3	168.4	161.6	149.5	137.5	122.0	106.6	91.1	73.9	58.4
140°	159.8	156.4	149.5	142.7	132.3	120.3	106.6	92.8	79.1	63.6	49.8
142.5°	139.2	135.8	130.6	123.8	115.2	104.8	92.8	80.8	67.0	55.0	43.0
145°	120.3	118.6	113.4	106.6	99.7	89.4	79.1	68.8	56.7	46.4	34.4
147.5°	101.4	99.7	96.3	91.1	84.2	75.6	67.0	56.7	48.1	37.8	27.5
150°	84.2	82.5	80.8	73.9	70.5	61.9	55.0	46.4	39.5	29.2	22.3
152.5°	68.8	68.8	65.3	60.2	56.7	49.8	44.7	37.8	30.9	24.1	17.2
155°	55.0	53.3	51.6	48.1	44.7	39.5	34.4	29.2	24.1	17.2	12.0
157.5°	43.0	41.3	39.5	36.1	32.7	30.9	25.8	20.6	15.5	12.0	8.6
160°	30.9	29.2	27.5	25.8	24.1	20.6	17.2	13.8	10.3	6.9	5.2
162.5°	20.6	18.9	18.9	17.2	15.5	12.0	10.3	8.6	6.9	5.2	3.4
165°	10.3	10.3	8.6	8.6	6.9	5.2	5.2	5.2	3.4	3.4	1.7
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: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4
2.5°	1620.8	1620.8	1627.7	1625.9	1620.8	1631.1	1643.1
5°	1615.6	1615.6	1620.8	1620.8	1615.6	1625.9	1636.3
7.5°	1607.0	1605.3	1610.5	1610.5	1603.6	1612.2	1624.2
10°	1591.6	1589.8	1595.0	1595.0	1588.1	1596.7	1607.0
12.5°	1574.4	1570.9	1576.1	1574.4	1567.5	1576.1	1586.4
15°	1552.0	1550.3	1553.8	1550.3	1543.4	1552.0	1562.3
17.5°	1529.7	1524.5	1526.3	1526.3	1514.2	1522.8	1531.4
20°	1500.5	1493.6	1495.3	1493.6	1485.0	1490.2	1500.5
22.5°	1471.3	1460.9	1460.9	1459.2	1448.9	1455.8	1464.4
25°	1435.2	1423.1	1423.1	1421.4	1409.4	1414.5	1423.1
27.5°	1399.1	1387.0	1381.9	1380.2	1368.1	1368.1	1380.2
30°	1361.3	1344.1	1340.6	1335.5	1323.4	1323.4	1333.8
32.5°	1325.2	1301.1	1294.2	1287.3	1275.3	1273.6	1285.6
35°	1277.0	1258.1	1246.1	1239.2	1225.5	1222.0	1232.3
37.5°	1237.5	1213.4	1196.3	1187.7	1173.9	1168.8	1182.5
40°	1194.5	1168.8	1146.4	1141.3	1120.6	1113.8	1125.8
42.5°	1146.4	1118.9	1096.6	1086.3	1070.8	1063.9	1065.6
45°	1098.3	1069.1	1045.0	1031.3	1015.8	1003.8	1010.6
47.5°	1048.4	1022.7	993.4	972.8	953.9	945.3	948.8
50°	998.6	967.7	940.2	917.8	895.5	885.2	892.0
52.5°	948.8	916.1	885.2	861.1	835.3	825.0	826.7
55°	900.6	866.3	830.2	804.4	780.3	764.8	761.4
57.5°	852.5	814.7	776.9	747.7	716.7	703.0	697.8
60°	800.9	761.4	721.9	687.5	654.8	639.4	632.5
62.5°	752.8	709.8	665.2	629.1	596.4	575.8	570.6
65°	706.4	656.6	611.9	570.6	534.5	512.2	505.3
67.5°	656.6	605.0	556.9	512.2	477.8	448.6	445.2
70°	610.2	555.2	501.9	455.5	417.7	388.4	374.7
72.5°	563.8	507.0	452.0	402.2	354.1	326.6	316.3
75°	519.1	460.6	402.2	350.6	297.3	264.7	254.4
77.5°	477.8	417.7	355.8	299.1	249.2	208.0	194.2
80°	438.3	376.4	311.1	252.7	199.4	154.7	139.2
82.5°	397.0	338.6	271.6	209.7	154.7	108.3	89.4
85°	360.9	302.5	235.5	173.6	118.6	68.8	48.1
87.5°	331.7	268.1	208.0	146.1	89.4	39.5	13.8
90°	302.5	240.6	180.5	120.3	67.0	22.3	1.7
92.5°	276.7	218.3	158.1	103.1	51.6	15.5	1.7
95°	252.7	195.9	139.2	85.9	41.3	10.3	1.7
97.5°	230.3	177.0	123.8	73.9	34.4	8.6	1.7
100°	211.4	159.8	110.0	65.3	29.2	6.9	1.7
102.5°	192.5	144.4	98.0	56.7	25.8	5.2	1.7
105°	177.0	130.6	87.7	51.6	22.3	5.2	1.7
107.5°	161.6	118.6	79.1	44.7	18.9	3.4	1.7
110°	146.1	108.3	70.5	39.5	17.2	3.4	1.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	134.1	98.0	63.6	36.1	13.8	3.4	1.7
115°	122.0	87.7	56.7	30.9	12.0	1.7	1.7
117.5°	110.0	79.1	49.8	27.5	10.3	1.7	1.7
120°	99.7	70.5	44.7	24.1	8.6	1.7	1.7
122.5°	89.4	63.6	39.5	20.6	6.9	1.7	1.7
125°	80.8	56.7	34.4	17.2	5.2	1.7	1.7
127.5°	72.2	49.8	30.9	15.5	5.2	1.7	1.7
130°	63.6	44.7	25.8	12.0	3.4	1.7	1.7
132.5°	56.7	37.8	22.3	10.3	3.4	1.7	1.7
135°	49.8	32.7	18.9	6.9	3.4	1.7	1.7
137.5°	43.0	27.5	15.5	5.2	1.7	1.7	1.7
140°	36.1	24.1	12.0	5.2	1.7	1.7	1.7
142.5°	30.9	18.9	8.6	3.4	1.7	1.7	1.7
145°	24.1	15.5	6.9	3.4	1.7	1.7	1.7
147.5°	18.9	12.0	5.2	3.4	1.7	1.7	1.7
150°	13.8	8.6	5.2	1.7	1.7	1.7	1.7
152.5°	10.3	6.9	3.4	1.7	1.7	1.7	1.7
155°	6.9	5.2	3.4	1.7	1.7	1.7	1.7
157.5°	5.2	3.4	1.7	1.7	1.7	1.7	1.7
160°	3.4	1.7	1.7	1.7	1.7	1.7	1.7
162.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
165°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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)