

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-LD5-88SL-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-LD5-88SL-LW-UNV-L935-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

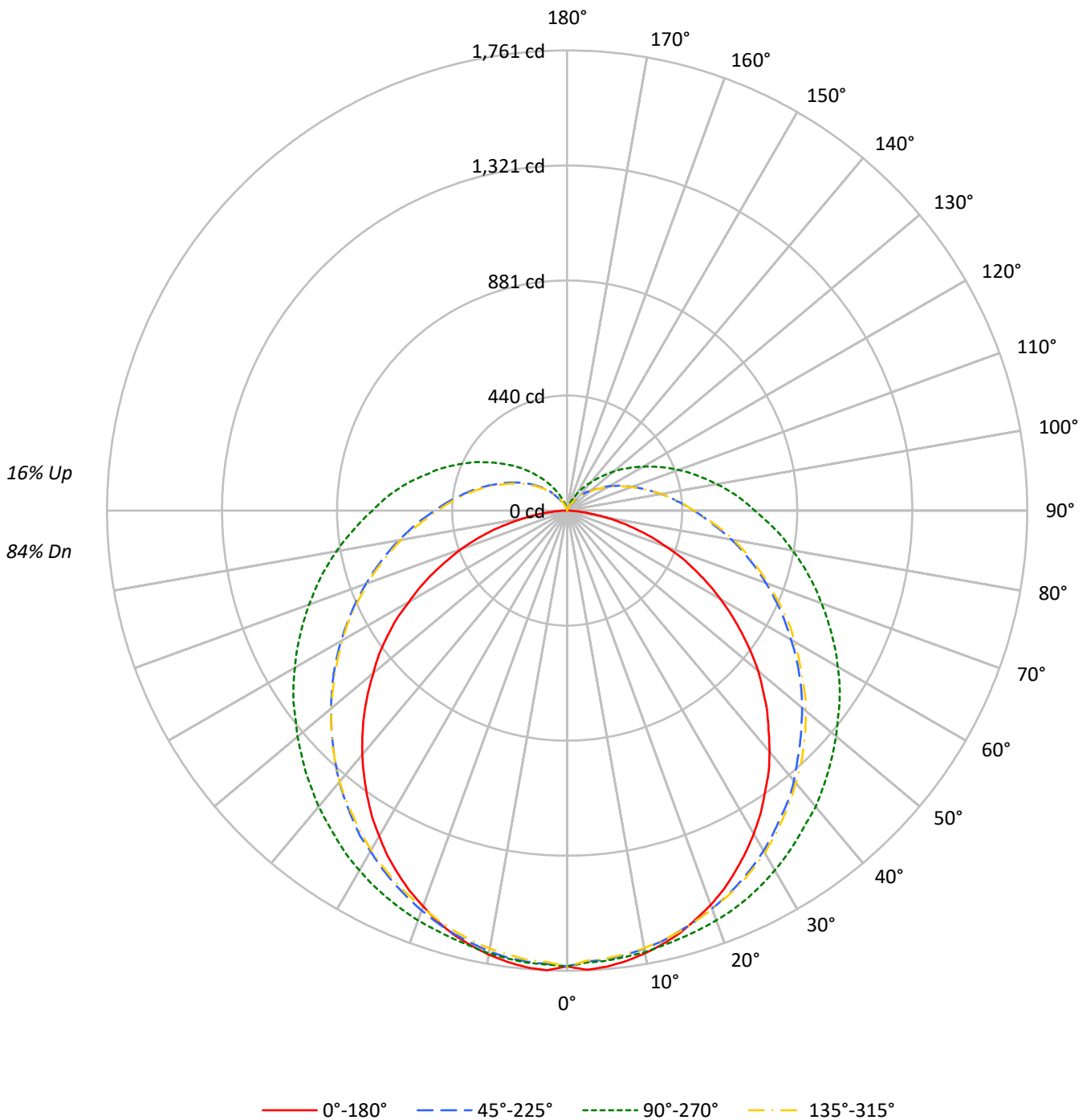
Lumens per Lamp: N/A
Luminaire Lumens: 7578.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 75
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-LD5-88SL-LW-UNV-L935-CD1-U

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	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°	7047	7047	7047	7047
5°	7095	6792	7110	6821
10°	7039	6599	7061	6620
15°	6967	6434	6997	6441
20°	6867	6313	6891	6313
25°	6743	6206	6783	6199
30°	6602	6096	6653	6096
35°	6437	5994	6508	6001
40°	6274	5934	6351	5934
45°	6087	5870	6180	5878
50°	5893	5833	5972	5849
55°	5617	5839	5794	5864
60°	5327	5856	5501	5893
65°	5004	5915	5226	5974
70°	4543	6024	4898	6110
75°	4017	6221	4397	6341
80°	3185	6513	3619	6663
85°	2026	6981	2533	7175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	2.2
10°-20°	474.9	6.3
20°-30°	728.1	9.6
30°-40°	898.2	11.9
40°-50°	974.5	12.9
50°-60°	960.5	12.7
60°-70°	868.4	11.5
70°-80°	723.5	9.5
80°-90°	560.3	7.4
90°-100°	425.0	5.6
100°-110°	314.5	4.2
110°-120°	218.8	2.9
120°-130°	139.6	1.8
130°-140°	78.3	1.0
140°-150°	35.8	0.5
150°-160°	11.1	0.1
160°-170°	1.4	0.0
170°-180°	0.0	0.0
0°-30°	1368.2	18.1
0°-40°	2266.4	29.9
0°-60°	4201.4	55.4
0°-90°	6353.6	83.8
90°-120°	958.2	12.6
90°-150°	1211.9	16.0
90°-180°	1224.0	16.2
0°-180°	7578.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1744	1744	1744	1744	1744	
5°	1752	1730	1755	1737	1752	166
15°	1672	1693	1680	1695	1672	471
25°	1523	1636	1533	1634	1523	702
35°	1319	1534	1334	1536	1319	826
45°	1082	1413	1098	1415	1082	833
55°	815	1273	841	1279	815	730
65°	541	1117	565	1128	541	536
75°	272	957	298	975	272	288
85°	52	797	64	819	52	62
90°	2	718	4	745	2	3
95°	2	651	2	683	2	1
105°	2	517	2	548	2	2
115°	2	394	2	429	2	2
125°	2	283	2	315	2	2
135°	2	184	2	217	2	1
145°	2	107	2	131	2	1
155°	2	44	2	61	2	1
165°	2	7	2	11	2	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2
2.5°	1759.0	1759.0	1757.1	1753.4	1755.3	1760.8	1757.1	1747.9	1742.4	1727.7	1731.4
5°	1751.6	1751.6	1749.8	1746.1	1747.9	1755.3	1751.6	1744.2	1736.9	1724.0	1729.5
7.5°	1738.7	1738.7	1736.9	1733.2	1736.9	1744.2	1740.6	1733.2	1727.7	1714.8	1720.3
10°	1720.3	1722.2	1720.3	1714.8	1722.2	1729.5	1727.7	1718.5	1713.0	1701.9	1707.4
12.5°	1698.2	1700.1	1698.2	1696.4	1700.1	1711.1	1707.4	1700.1	1696.4	1687.2	1692.7
15°	1672.5	1674.3	1670.6	1670.6	1674.3	1685.4	1685.4	1678.0	1674.3	1665.1	1676.2
17.5°	1639.4	1641.2	1639.4	1639.4	1643.0	1654.1	1655.9	1652.2	1648.6	1644.9	1655.9
20°	1606.2	1604.4	1604.4	1602.6	1609.9	1626.5	1624.6	1624.6	1621.0	1621.0	1633.8
22.5°	1567.6	1567.6	1565.8	1565.8	1575.0	1589.7	1589.7	1593.4	1589.7	1597.0	1608.1
25°	1523.4	1525.3	1523.4	1527.1	1534.5	1551.0	1552.9	1558.4	1560.2	1567.6	1580.5
27.5°	1477.4	1479.3	1477.4	1481.1	1494.0	1506.9	1516.1	1523.4	1525.3	1536.3	1552.9
30°	1427.8	1427.8	1429.6	1433.3	1448.0	1468.2	1475.6	1484.8	1484.8	1503.2	1519.8
32.5°	1376.3	1376.3	1376.3	1383.6	1400.2	1424.1	1433.3	1444.3	1448.0	1466.4	1484.8
35°	1319.2	1321.1	1321.1	1326.6	1348.7	1372.6	1385.5	1398.3	1405.7	1427.8	1446.2
37.5°	1265.9	1269.5	1264.0	1271.4	1302.7	1322.9	1337.6	1350.5	1363.4	1392.8	1407.5
40°	1205.1	1208.8	1207.0	1221.7	1247.5	1273.2	1289.8	1302.7	1321.1	1350.5	1367.1
42.5°	1140.7	1144.4	1148.1	1164.7	1192.3	1218.0	1238.3	1254.8	1276.9	1302.7	1330.3
45°	1081.9	1081.9	1087.4	1107.6	1137.1	1164.7	1188.6	1207.0	1232.7	1260.3	1287.9
47.5°	1015.6	1017.5	1024.8	1048.7	1080.0	1113.1	1135.2	1159.1	1186.7	1216.2	1247.5
50°	954.9	954.9	966.0	991.7	1021.1	1057.9	1081.9	1109.5	1138.9	1173.9	1205.1
52.5°	885.0	888.7	905.2	929.2	967.8	1000.9	1028.5	1057.9	1092.9	1129.7	1164.7
55°	815.1	822.4	835.3	868.4	908.9	940.2	973.3	1010.1	1043.2	1083.7	1124.2
57.5°	747.0	752.5	772.8	805.9	848.2	886.8	921.8	956.8	997.2	1037.7	1080.0
60°	677.1	684.4	708.4	741.5	787.5	828.0	868.4	905.2	947.6	989.9	1034.0
62.5°	610.8	616.4	644.0	682.6	728.6	772.8	813.2	857.4	903.4	943.9	988.0
65°	540.9	550.1	581.4	616.4	669.7	713.9	759.9	807.7	855.6	899.7	942.0
67.5°	476.5	482.1	515.2	555.7	609.0	658.7	706.5	758.0	807.7	853.7	896.0
70°	401.1	419.5	452.6	494.9	552.0	603.5	655.0	708.4	761.7	809.6	850.0
72.5°	338.5	353.3	390.1	436.1	491.3	552.0	605.3	662.4	715.7	765.4	807.7
75°	272.3	287.0	329.3	380.9	437.9	502.3	557.5	616.4	671.6	721.2	765.4
77.5°	207.9	226.3	272.3	325.7	388.2	454.5	511.5	570.4	627.4	680.8	724.9
80°	149.0	169.3	218.9	279.7	340.4	406.6	469.2	528.1	585.1	638.4	684.4
82.5°	95.7	117.8	171.1	231.8	296.2	362.5	426.9	485.7	542.8	596.1	644.0
85°	51.5	75.4	130.6	191.4	255.7	322.0	386.4	448.9	504.1	553.8	605.3
87.5°	14.7	44.2	97.5	158.2	224.5	285.2	347.7	410.3	465.5	518.9	564.9
90°	1.8	25.8	73.6	130.6	195.0	253.9	316.5	375.3	430.5	483.9	529.9
92.5°	1.8	16.6	57.0	108.6	167.4	228.1	290.7	347.7	399.3	452.6	498.6
95°	1.8	12.9	46.0	92.0	147.2	204.2	263.1	318.3	371.7	421.3	467.3
97.5°	1.8	9.2	36.8	79.1	128.8	182.2	239.2	294.4	345.9	393.7	436.1
100°	1.8	7.4	29.4	68.1	112.2	163.8	215.3	268.6	318.3	364.3	408.5
102.5°	1.8	5.5	25.8	57.0	99.4	145.4	195.0	244.7	292.5	336.7	380.9
105°	1.8	5.5	22.1	49.7	88.3	130.6	176.6	224.5	268.6	310.9	351.4
107.5°	1.8	3.7	18.4	42.3	77.3	117.8	160.1	206.1	246.5	287.0	325.7
110°	1.8	3.7	14.7	38.6	68.1	104.9	145.4	187.7	226.3	264.9	301.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.8	3.7	12.9	33.1	58.9	93.8	130.6	169.3	206.1	244.7	277.8
115°	1.8	3.7	11.0	29.4	55.2	81.0	117.8	152.7	189.5	224.5	255.7
117.5°	1.8	3.7	9.2	23.9	47.8	73.6	103.0	138.0	171.1	204.2	233.7
120°	1.8	3.7	7.4	22.1	42.3	66.2	92.0	123.3	154.6	185.8	217.1
122.5°	1.8	1.8	7.4	18.4	36.8	58.9	84.6	108.6	138.0	167.4	195.0
125°	1.8	1.8	7.4	16.6	31.3	53.4	75.4	97.5	123.3	149.0	173.0
127.5°	1.8	1.8	5.5	12.9	27.6	46.0	66.2	90.2	108.6	132.5	156.4
130°	1.8	1.8	5.5	11.0	23.9	38.6	58.9	79.1	101.2	117.8	138.0
132.5°	1.8	1.8	5.5	9.2	18.4	31.3	49.7	68.1	88.3	106.7	123.3
135°	1.8	1.8	3.7	7.4	14.7	25.8	40.5	57.0	77.3	95.7	112.2
137.5°	1.8	1.8	3.7	7.4	11.0	22.1	31.3	46.0	64.4	81.0	97.5
140°	1.8	1.8	3.7	5.5	9.2	16.6	25.8	36.8	51.5	66.2	84.6
142.5°	1.8	1.8	1.8	5.5	7.4	12.9	20.2	29.4	40.5	53.4	68.1
145°	1.8	1.8	1.8	5.5	7.4	9.2	16.6	23.9	31.3	40.5	53.4
147.5°	1.8	1.8	1.8	3.7	5.5	7.4	12.9	18.4	23.9	31.3	38.6
150°	1.8	1.8	1.8	3.7	5.5	7.4	9.2	12.9	18.4	25.8	31.3
152.5°	1.8	1.8	1.8	3.7	3.7	5.5	7.4	9.2	12.9	18.4	22.1
155°	1.8	1.8	1.8	1.8	3.7	5.5	7.4	7.4	9.2	12.9	16.6
157.5°	1.8	1.8	1.8	1.8	3.7	3.7	5.5	5.5	7.4	7.4	11.0
160°	1.8	1.8	1.8	1.8	1.8	3.7	3.7	5.5	5.5	5.5	5.5
162.5°	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7	3.7	5.5	5.5
165°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7	3.7
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2
2.5°	1731.4	1733.2	1738.7	1738.7	1735.0	1735.0	1733.2	1731.4	1733.2	1736.9	1736.9
5°	1727.7	1729.5	1735.0	1736.9	1733.2	1731.4	1731.4	1729.5	1731.4	1735.0	1735.0
7.5°	1720.3	1722.2	1727.7	1729.5	1725.8	1725.8	1724.0	1722.2	1725.8	1727.7	1727.7
10°	1709.3	1711.1	1718.5	1720.3	1718.5	1716.6	1716.6	1714.8	1716.6	1720.3	1720.3
12.5°	1694.6	1698.2	1707.4	1707.4	1707.4	1705.6	1705.6	1703.8	1705.6	1709.3	1707.4
15°	1678.0	1685.4	1692.7	1696.4	1696.4	1696.4	1696.4	1692.7	1696.4	1698.2	1696.4
17.5°	1659.6	1668.8	1679.8	1683.5	1683.5	1685.4	1683.5	1681.7	1685.4	1685.4	1683.5
20°	1641.2	1650.4	1661.4	1665.1	1668.8	1670.6	1670.6	1668.8	1670.6	1672.5	1670.6
22.5°	1617.3	1628.3	1641.2	1646.7	1650.4	1654.1	1654.1	1654.1	1655.9	1657.8	1654.1
25°	1591.5	1604.4	1619.1	1624.6	1632.0	1633.8	1635.7	1635.7	1637.5	1639.4	1633.8
27.5°	1563.9	1578.6	1593.4	1602.6	1608.1	1611.8	1611.8	1613.6	1615.4	1617.3	1611.8
30°	1530.8	1552.9	1565.8	1573.1	1580.5	1586.0	1587.8	1589.7	1591.5	1593.4	1587.8
32.5°	1501.4	1519.8	1536.3	1545.5	1554.7	1562.1	1563.9	1563.9	1567.6	1567.6	1562.1
35°	1466.4	1488.5	1505.0	1514.2	1525.3	1530.8	1534.5	1534.5	1538.2	1538.2	1532.6
37.5°	1431.4	1453.5	1471.9	1483.0	1495.8	1503.2	1505.0	1505.0	1508.7	1508.7	1501.4
40°	1394.7	1418.6	1438.8	1451.7	1462.7	1471.9	1473.8	1479.3	1479.3	1477.4	1470.1
42.5°	1357.9	1379.9	1402.0	1416.7	1431.4	1440.6	1444.3	1446.2	1446.2	1444.3	1438.8
45°	1317.4	1343.1	1363.4	1381.8	1396.5	1405.7	1411.2	1413.0	1413.0	1409.4	1403.9
47.5°	1278.7	1304.5	1324.7	1345.0	1359.7	1370.7	1376.3	1378.1	1376.3	1374.4	1368.9
50°	1238.3	1267.7	1287.9	1308.2	1322.9	1332.1	1341.3	1343.1	1341.3	1339.5	1328.4
52.5°	1195.9	1227.2	1249.3	1269.5	1286.1	1297.1	1304.5	1306.3	1306.3	1302.7	1295.3
55°	1153.6	1181.2	1208.8	1230.9	1249.3	1260.3	1269.5	1273.2	1269.5	1265.9	1256.7
57.5°	1115.0	1140.7	1168.3	1192.3	1210.7	1225.4	1232.7	1236.4	1232.7	1227.2	1218.0
60°	1069.0	1096.6	1127.9	1149.9	1170.2	1184.9	1188.6	1195.9	1192.3	1186.7	1177.5
62.5°	1024.8	1057.9	1085.5	1113.1	1129.7	1146.3	1153.6	1157.3	1153.6	1148.1	1138.9
65°	978.8	1015.6	1043.2	1070.8	1089.2	1105.8	1115.0	1116.8	1113.1	1107.6	1098.4
67.5°	936.5	971.5	1000.9	1030.3	1046.9	1063.5	1072.7	1076.3	1072.7	1065.3	1056.1
70°	894.2	929.2	964.1	986.2	1006.4	1024.8	1030.3	1035.9	1032.2	1024.8	1013.8
72.5°	851.9	888.7	923.6	945.7	967.8	984.4	991.7	997.2	993.6	986.2	973.3
75°	807.7	846.4	881.3	905.2	927.3	943.9	951.2	956.8	953.1	945.7	931.0
77.5°	767.2	805.9	839.0	864.8	886.8	901.6	914.4	916.3	912.6	905.2	890.5
80°	724.9	763.6	798.5	824.3	846.4	861.1	870.3	875.8	872.1	864.8	850.0
82.5°	688.1	723.1	758.0	783.8	805.9	824.3	831.6	837.2	835.3	824.3	813.2
85°	647.6	688.1	715.7	743.3	765.4	783.8	789.3	796.7	794.8	785.6	770.9
87.5°	607.2	647.6	680.8	708.4	728.6	743.3	752.5	756.2	754.4	745.2	728.6
90°	574.1	610.8	644.0	673.4	690.0	706.5	715.7	717.6	717.6	706.5	693.6
92.5°	542.8	577.7	610.8	638.4	658.7	673.4	680.8	684.4	682.6	673.4	658.7
95°	507.8	546.5	577.7	605.3	625.6	640.3	647.6	651.3	649.5	640.3	625.6
97.5°	478.4	513.3	544.6	570.4	590.6	605.3	612.7	616.4	616.4	607.2	592.5
100°	448.9	483.9	513.3	539.1	557.5	572.2	579.6	581.4	579.6	572.2	557.5
102.5°	419.5	452.6	482.1	506.0	526.2	539.1	546.5	548.3	548.3	539.1	524.4
105°	390.1	423.2	450.8	476.5	493.1	506.0	511.5	517.0	515.2	507.8	493.1
107.5°	362.5	395.6	421.3	445.3	461.8	474.7	480.2	485.7	483.9	476.5	461.8
110°	336.7	368.0	391.9	415.8	430.5	443.4	452.6	454.5	450.8	443.4	430.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	312.8	340.4	364.3	386.4	402.9	412.1	419.5	423.2	419.5	412.1	402.9
115°	287.0	314.6	338.5	358.8	373.5	384.5	390.1	393.7	390.1	382.7	373.5
117.5°	263.1	288.9	312.8	333.0	345.9	355.1	360.6	364.3	360.6	355.1	345.9
120°	242.9	264.9	287.0	305.4	320.1	327.5	333.0	336.7	334.9	327.5	318.3
122.5°	218.9	242.9	263.1	281.5	294.4	301.7	305.4	309.1	307.3	301.7	292.5
125°	198.7	218.9	239.2	255.7	268.6	276.0	279.7	283.3	281.5	276.0	264.9
127.5°	176.6	198.7	215.3	231.8	241.0	252.1	253.9	257.6	255.7	250.2	241.0
130°	160.1	176.6	193.2	207.9	218.9	226.3	230.0	231.8	228.1	224.5	215.3
132.5°	139.8	158.2	173.0	185.8	193.2	200.6	204.2	206.1	206.1	200.6	193.2
135°	125.1	138.0	150.9	163.8	171.1	178.5	182.2	184.0	182.2	178.5	171.1
137.5°	112.2	123.3	132.5	143.5	152.7	156.4	160.1	160.1	158.2	156.4	150.9
140°	97.5	110.4	119.6	127.0	134.3	136.2	139.8	139.8	138.0	136.2	132.5
142.5°	82.8	93.8	103.0	112.2	117.8	121.4	123.3	125.1	123.3	121.4	115.9
145°	66.2	79.1	88.3	93.8	101.2	103.0	104.9	106.7	104.9	103.0	97.5
147.5°	51.5	62.6	71.8	79.1	84.6	86.5	88.3	90.2	88.3	84.6	82.8
150°	36.8	46.0	57.0	64.4	68.1	71.8	71.8	71.8	73.6	69.9	66.2
152.5°	29.4	33.1	40.5	47.8	53.4	55.2	57.0	57.0	55.2	55.2	51.5
155°	20.2	23.9	29.4	35.0	40.5	42.3	44.2	44.2	42.3	42.3	40.5
157.5°	12.9	16.6	20.2	23.9	29.4	31.3	33.1	33.1	33.1	31.3	29.4
160°	7.4	9.2	11.0	14.7	18.4	20.2	22.1	22.1	22.1	22.1	20.2
162.5°	5.5	5.5	5.5	7.4	9.2	11.0	12.9	12.9	12.9	12.9	11.0
165°	3.7	3.7	3.7	3.7	3.7	5.5	7.4	7.4	7.4	7.4	7.4
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



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2
2.5°	1735.0	1735.0	1736.9	1733.2	1722.2	1724.0	1724.0	1731.4	1735.0	1736.9	1746.1
5°	1731.4	1731.4	1735.0	1729.5	1720.3	1720.3	1720.3	1727.7	1729.5	1733.2	1740.6
7.5°	1725.8	1725.8	1727.7	1722.2	1711.1	1711.1	1709.3	1716.6	1720.3	1722.2	1729.5
10°	1716.6	1716.6	1718.5	1713.0	1700.1	1700.1	1698.2	1703.8	1705.6	1709.3	1714.8
12.5°	1703.8	1703.8	1703.8	1698.2	1685.4	1683.5	1681.7	1687.2	1687.2	1689.0	1694.6
15°	1692.7	1689.0	1689.0	1683.5	1670.6	1667.0	1663.3	1665.1	1668.8	1667.0	1670.6
17.5°	1679.8	1676.2	1672.5	1667.0	1650.4	1644.9	1641.2	1643.0	1641.2	1639.4	1643.0
20°	1665.1	1659.6	1657.8	1648.6	1632.0	1622.8	1615.4	1611.8	1613.6	1608.1	1609.9
22.5°	1648.6	1641.2	1637.5	1626.5	1609.9	1598.9	1589.7	1582.3	1580.5	1573.1	1575.0
25°	1628.3	1619.1	1613.6	1604.4	1586.0	1573.1	1562.1	1551.0	1545.5	1536.3	1534.5
27.5°	1604.4	1595.2	1587.8	1578.6	1560.2	1543.7	1530.8	1516.1	1508.7	1497.7	1492.2
30°	1580.5	1569.4	1558.4	1551.0	1530.8	1512.4	1492.2	1479.3	1468.2	1455.4	1446.2
32.5°	1551.0	1540.0	1529.0	1517.9	1499.5	1477.4	1460.9	1440.6	1427.8	1413.0	1402.0
35°	1521.6	1506.9	1495.8	1481.1	1464.6	1438.8	1418.6	1398.3	1381.8	1365.2	1352.3
37.5°	1488.5	1477.4	1460.9	1448.0	1427.8	1402.0	1379.9	1354.2	1339.5	1317.4	1300.8
40°	1457.2	1444.3	1427.8	1411.2	1391.0	1361.5	1337.6	1308.2	1291.6	1265.9	1249.3
42.5°	1425.9	1407.5	1391.0	1372.6	1350.5	1322.9	1293.5	1264.0	1241.9	1218.0	1194.1
45°	1391.0	1370.7	1350.5	1330.3	1308.2	1280.6	1249.3	1218.0	1190.4	1168.3	1138.9
47.5°	1354.2	1333.9	1310.0	1287.9	1264.0	1236.4	1203.3	1170.2	1140.7	1115.0	1083.7
50°	1317.4	1297.1	1271.4	1247.5	1219.9	1192.3	1157.3	1118.7	1087.4	1054.3	1026.7
52.5°	1278.7	1258.5	1234.6	1203.3	1173.9	1146.3	1109.5	1069.0	1034.0	1006.4	971.5
55°	1240.1	1219.9	1192.3	1161.0	1131.5	1096.6	1061.6	1021.1	982.5	949.4	914.4
57.5°	1199.6	1181.2	1149.9	1124.2	1087.4	1050.6	1013.8	975.2	932.8	894.2	853.7
60°	1159.1	1138.9	1109.5	1078.2	1041.4	1004.6	966.0	923.6	879.5	837.2	800.4
62.5°	1122.3	1096.6	1069.0	1035.9	997.2	962.3	918.1	872.1	828.0	783.8	739.6
65°	1080.0	1052.4	1026.7	993.6	953.1	912.6	868.4	822.4	774.6	726.8	682.6
67.5°	1037.7	1010.1	982.5	949.4	907.1	864.8	818.8	772.8	719.4	673.4	621.9
70°	995.4	973.3	938.4	903.4	864.8	818.8	772.8	723.1	667.9	618.2	564.9
72.5°	953.1	931.0	896.0	859.2	822.4	774.6	724.9	675.2	623.7	566.7	509.7
75°	912.6	885.0	853.7	818.8	780.1	730.4	680.8	629.2	568.5	515.2	456.3
77.5°	874.0	848.2	816.9	778.3	736.0	688.1	636.6	583.3	522.5	465.5	401.1
80°	831.6	805.9	774.6	736.0	693.6	647.6	592.5	537.3	478.4	415.8	349.6
82.5°	791.2	767.2	732.3	697.3	651.3	605.3	550.1	494.9	432.4	371.7	307.3
85°	748.8	724.9	691.8	655.0	610.8	561.2	509.7	454.5	391.9	329.3	264.9
87.5°	712.0	684.4	651.3	614.5	570.4	522.5	472.9	414.0	353.3	292.5	226.3
90°	673.4	647.6	614.5	577.7	533.6	485.7	434.2	379.0	320.1	257.6	195.0
92.5°	640.3	612.7	581.4	544.6	500.5	454.5	402.9	347.7	290.7	230.0	169.3
95°	607.2	579.6	550.1	513.3	469.2	423.2	371.7	318.3	263.1	204.2	147.2
97.5°	570.4	546.5	517.0	482.1	437.9	393.7	344.1	292.5	239.2	182.2	128.8
100°	540.9	513.3	485.7	448.9	408.5	366.1	316.5	266.8	215.3	161.9	112.2
102.5°	507.8	482.1	454.5	419.5	379.0	336.7	290.7	242.9	195.0	145.4	97.5
105°	476.5	452.6	423.2	390.1	351.4	310.9	266.8	222.6	176.6	128.8	86.5
107.5°	445.3	421.3	393.7	362.5	325.7	285.2	244.7	200.6	158.2	115.9	77.3
110°	414.0	391.9	366.1	334.9	299.9	263.1	224.5	184.0	141.7	103.0	68.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	386.4	364.3	338.5	309.1	276.0	241.0	204.2	165.6	127.0	92.0	58.9
115°	358.8	338.5	312.8	287.0	253.9	220.8	185.8	149.0	114.1	82.8	51.5
117.5°	331.2	310.9	287.0	261.3	231.8	200.6	167.4	132.5	103.0	73.6	46.0
120°	303.6	285.2	263.1	239.2	213.4	182.2	149.0	119.6	92.0	64.4	40.5
122.5°	277.8	261.3	241.0	218.9	191.4	161.9	134.3	108.6	82.8	57.0	33.1
125°	253.9	237.3	218.9	196.9	171.1	145.4	121.4	97.5	71.8	49.7	27.6
127.5°	230.0	213.4	195.0	174.8	154.6	130.6	108.6	86.5	64.4	44.2	23.9
130°	206.1	191.4	174.8	158.2	138.0	115.9	97.5	75.4	55.2	35.0	20.2
132.5°	182.2	171.1	156.4	139.8	121.4	104.9	84.6	66.2	47.8	31.3	18.4
135°	161.9	150.9	138.0	123.3	108.6	92.0	73.6	57.0	40.5	25.8	14.7
137.5°	143.5	134.3	121.4	108.6	95.7	79.1	64.4	47.8	33.1	22.1	11.0
140°	127.0	117.8	106.7	93.8	82.8	68.1	53.4	38.6	29.4	18.4	9.2
142.5°	110.4	101.2	92.0	81.0	69.9	57.0	44.2	33.1	23.9	14.7	9.2
145°	93.8	86.5	77.3	68.1	57.0	46.0	36.8	27.6	18.4	11.0	7.4
147.5°	77.3	71.8	62.6	55.2	46.0	36.8	29.4	22.1	14.7	9.2	5.5
150°	62.6	57.0	49.7	42.3	36.8	29.4	23.9	16.6	11.0	9.2	5.5
152.5°	47.8	44.2	38.6	35.0	29.4	22.1	16.6	12.9	9.2	7.4	3.7
155°	38.6	35.0	31.3	25.8	22.1	16.6	12.9	9.2	7.4	5.5	3.7
157.5°	27.6	25.8	22.1	18.4	14.7	11.0	9.2	9.2	5.5	3.7	1.8
160°	18.4	16.6	14.7	11.0	9.2	9.2	7.4	5.5	3.7	3.7	1.8
162.5°	11.0	9.2	9.2	9.2	7.4	7.4	5.5	3.7	3.7	1.8	1.8
165°	7.4	7.4	7.4	5.5	5.5	5.5	3.7	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: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2
2.5°	1746.1	1740.6	1747.9	1760.8	1762.6	1760.8	1757.1	1762.6	1770.0	1768.2	1755.3
5°	1742.4	1735.0	1742.4	1755.3	1755.3	1753.4	1751.6	1757.1	1764.5	1762.6	1751.6
7.5°	1731.4	1724.0	1731.4	1742.4	1744.2	1740.6	1740.6	1746.1	1753.4	1751.6	1742.4
10°	1716.6	1709.3	1713.0	1725.8	1729.5	1725.8	1725.8	1731.4	1740.6	1738.7	1727.7
12.5°	1694.6	1689.0	1692.7	1703.8	1707.4	1705.6	1703.8	1711.1	1720.3	1720.3	1709.3
15°	1670.6	1663.3	1667.0	1679.8	1681.7	1678.0	1679.8	1685.4	1696.4	1696.4	1687.2
17.5°	1643.0	1633.8	1639.4	1648.6	1650.4	1650.4	1650.4	1657.8	1670.6	1668.8	1661.4
20°	1611.8	1598.9	1602.6	1611.8	1615.4	1615.4	1615.4	1628.3	1637.5	1637.5	1630.2
22.5°	1575.0	1565.8	1565.8	1575.0	1580.5	1578.6	1578.6	1589.7	1602.6	1600.7	1600.7
25°	1532.6	1525.3	1521.6	1532.6	1534.5	1536.3	1540.0	1551.0	1565.8	1565.8	1567.6
27.5°	1488.5	1481.1	1479.3	1488.5	1490.3	1492.2	1495.8	1508.7	1523.4	1525.3	1529.0
30°	1446.2	1435.1	1431.4	1438.8	1442.5	1444.3	1444.3	1464.6	1477.4	1483.0	1490.3
32.5°	1396.5	1385.5	1376.3	1389.1	1391.0	1394.7	1396.5	1416.7	1431.4	1440.6	1451.7
35°	1346.8	1328.4	1324.7	1333.9	1337.6	1339.5	1343.1	1365.2	1385.5	1392.8	1407.5
37.5°	1291.6	1278.7	1267.7	1276.9	1280.6	1282.4	1293.5	1313.7	1333.9	1345.0	1359.7
40°	1240.1	1223.5	1214.3	1219.9	1223.5	1225.4	1238.3	1260.3	1284.3	1297.1	1315.5
42.5°	1183.1	1161.0	1153.6	1159.1	1161.0	1166.5	1177.5	1207.0	1230.9	1249.3	1264.0
45°	1126.0	1109.5	1092.9	1098.4	1100.3	1103.9	1120.5	1151.8	1177.5	1199.6	1216.2
47.5°	1067.1	1046.9	1030.3	1034.0	1041.4	1043.2	1061.6	1098.4	1122.3	1146.3	1168.3
50°	1008.3	980.7	967.8	967.8	971.5	980.7	1004.6	1041.4	1067.1	1094.7	1118.7
52.5°	947.6	921.8	907.1	908.9	912.6	923.6	945.7	982.5	1011.9	1041.4	1070.8
55°	886.8	859.2	844.5	840.8	844.5	859.2	885.0	923.6	953.1	988.0	1019.3
57.5°	826.1	793.0	780.1	774.6	778.3	796.7	822.4	862.9	899.7	932.8	969.6
60°	759.9	734.1	712.0	699.2	708.4	732.3	759.9	802.2	840.8	877.6	918.1
62.5°	702.8	669.7	645.8	632.9	642.1	662.4	701.0	741.5	783.8	826.1	866.6
65°	638.4	605.3	577.7	564.9	574.1	598.0	636.6	680.8	726.8	769.1	816.9
67.5°	575.9	540.9	507.8	494.9	506.0	531.7	574.1	623.7	673.4	717.6	769.1
70°	515.2	476.5	441.6	432.4	439.7	474.7	515.2	564.9	616.4	667.9	721.2
72.5°	460.0	412.1	375.3	364.3	373.5	412.1	458.1	509.7	564.9	620.0	677.1
75°	395.6	351.4	310.9	298.1	309.1	344.1	401.1	456.3	515.2	574.1	627.4
77.5°	344.1	292.5	250.2	230.0	248.4	292.5	347.7	406.6	467.3	528.1	588.8
80°	290.7	237.3	191.4	169.3	189.5	237.3	292.5	356.9	425.0	485.7	540.9
82.5°	242.9	185.8	138.0	114.1	136.2	189.5	250.2	314.6	380.9	441.6	506.0
85°	198.7	139.8	90.2	64.4	95.7	143.5	207.9	274.1	342.2	404.8	467.3
87.5°	161.9	104.9	55.2	27.6	58.9	112.2	173.0	239.2	307.3	369.8	428.7
90°	132.5	75.4	29.4	3.7	35.0	84.6	143.5	207.9	272.3	336.7	395.6
92.5°	108.6	57.0	16.6	1.8	22.1	68.1	123.3	184.0	246.5	309.1	366.1
95°	90.2	44.2	11.0	1.8	16.6	53.4	104.9	163.8	222.6	283.3	340.4
97.5°	77.3	36.8	9.2	1.8	12.9	46.0	90.2	145.4	202.4	259.4	314.6
100°	66.2	29.4	7.4	1.8	11.0	38.6	79.1	128.8	182.2	237.3	290.7
102.5°	57.0	23.9	5.5	1.8	9.2	33.1	69.9	115.9	163.8	217.1	268.6
105°	49.7	20.2	5.5	1.8	7.4	29.4	62.6	103.0	150.9	198.7	248.4
107.5°	42.3	16.6	3.7	1.8	5.5	23.9	55.2	93.8	136.2	182.2	228.1
110°	36.8	14.7	3.7	1.8	5.5	22.1	47.8	84.6	123.3	165.6	209.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	31.3	11.0	3.7	1.8	3.7	18.4	42.3	75.4	112.2	150.9	193.2
115°	27.6	9.2	1.8	1.8	3.7	16.6	38.6	68.1	101.2	138.0	176.6
117.5°	22.1	7.4	1.8	1.8	1.8	12.9	33.1	60.7	92.0	127.0	161.9
120°	18.4	7.4	1.8	1.8	1.8	11.0	29.4	53.4	82.8	114.1	147.2
122.5°	16.6	5.5	1.8	1.8	1.8	9.2	25.8	47.8	73.6	103.0	134.3
125°	14.7	5.5	1.8	1.8	1.8	7.4	22.1	42.3	66.2	92.0	121.4
127.5°	11.0	5.5	1.8	1.8	1.8	5.5	20.2	36.8	58.9	82.8	108.6
130°	9.2	3.7	1.8	1.8	1.8	5.5	16.6	33.1	51.5	73.6	97.5
132.5°	7.4	3.7	1.8	1.8	1.8	3.7	12.9	25.8	44.2	64.4	86.5
135°	7.4	3.7	1.8	1.8	1.8	3.7	9.2	22.1	36.8	55.2	73.6
137.5°	7.4	1.8	1.8	1.8	1.8	3.7	7.4	16.6	29.4	44.2	60.7
140°	5.5	1.8	1.8	1.8	1.8	1.8	5.5	12.9	23.9	36.8	51.5
142.5°	5.5	1.8	1.8	1.8	1.8	1.8	5.5	9.2	18.4	29.4	40.5
145°	3.7	1.8	1.8	1.8	1.8	1.8	3.7	7.4	14.7	22.1	33.1
147.5°	3.7	1.8	1.8	1.8	1.8	1.8	3.7	5.5	11.0	18.4	25.8
150°	3.7	1.8	1.8	1.8	1.8	1.8	3.7	5.5	7.4	12.9	20.2
152.5°	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7	5.5	9.2	12.9
155°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	5.5	7.4	9.2
157.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7	5.5	7.4
160°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7	5.5
162.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7
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: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2
2.5°	1749.8	1736.9	1740.6	1738.7	1742.4	1747.9	1747.9	1746.1	1746.1	1742.4	1738.7
5°	1746.1	1733.2	1738.7	1736.9	1740.6	1746.1	1746.1	1744.2	1744.2	1738.7	1736.9
7.5°	1735.0	1725.8	1729.5	1729.5	1733.2	1738.7	1738.7	1736.9	1736.9	1731.4	1729.5
10°	1724.0	1713.0	1718.5	1718.5	1722.2	1729.5	1729.5	1727.7	1727.7	1722.2	1720.3
12.5°	1705.6	1694.6	1703.8	1705.6	1709.3	1716.6	1714.8	1714.8	1714.8	1709.3	1707.4
15°	1683.5	1676.2	1685.4	1687.2	1692.7	1701.9	1701.9	1701.9	1701.9	1696.4	1694.6
17.5°	1659.6	1654.1	1663.3	1667.0	1674.3	1683.5	1683.5	1685.4	1687.2	1683.5	1681.7
20°	1632.0	1628.3	1637.5	1644.9	1655.9	1665.1	1668.8	1670.6	1674.3	1670.6	1668.8
22.5°	1600.7	1600.7	1613.6	1621.0	1633.8	1643.0	1648.6	1654.1	1657.8	1654.1	1652.2
25°	1565.8	1571.3	1584.2	1597.0	1611.8	1621.0	1626.5	1633.8	1637.5	1635.7	1633.8
27.5°	1532.6	1540.0	1556.6	1569.4	1582.3	1597.0	1602.6	1611.8	1615.4	1615.4	1613.6
30°	1494.0	1505.0	1523.4	1538.2	1554.7	1569.4	1576.8	1586.0	1591.5	1587.8	1589.7
32.5°	1457.2	1475.6	1490.3	1506.9	1525.3	1540.0	1549.2	1560.2	1565.8	1563.9	1565.8
35°	1416.7	1435.1	1455.4	1471.9	1494.0	1508.7	1521.6	1530.8	1538.2	1536.3	1536.3
37.5°	1372.6	1396.5	1416.7	1438.8	1459.0	1475.6	1488.5	1499.5	1506.9	1506.9	1506.9
40°	1330.3	1356.0	1376.3	1402.0	1427.8	1442.5	1457.2	1468.2	1475.6	1477.4	1479.3
42.5°	1284.3	1311.9	1335.8	1363.4	1389.1	1407.5	1424.1	1437.0	1444.3	1448.0	1446.2
45°	1241.9	1267.7	1295.3	1326.6	1350.5	1368.9	1389.1	1403.9	1411.2	1413.0	1414.9
47.5°	1194.1	1223.5	1254.8	1286.1	1310.0	1333.9	1352.3	1367.1	1374.4	1379.9	1379.9
50°	1148.1	1179.4	1214.3	1247.5	1273.2	1297.1	1315.5	1332.1	1341.3	1345.0	1346.8
52.5°	1105.8	1135.2	1172.0	1205.1	1230.9	1254.8	1278.7	1297.1	1306.3	1310.0	1310.0
55°	1054.3	1091.1	1131.5	1162.8	1190.4	1218.0	1241.9	1260.3	1269.5	1275.1	1278.7
57.5°	1006.4	1045.1	1087.4	1120.5	1153.6	1179.4	1201.5	1225.4	1232.7	1240.1	1241.9
60°	960.4	999.1	1039.5	1076.3	1109.5	1137.1	1162.8	1183.1	1195.9	1199.6	1203.3
62.5°	912.6	953.1	995.4	1032.2	1067.1	1100.3	1124.2	1142.6	1157.3	1162.8	1166.5
65°	866.6	908.9	951.2	989.9	1026.7	1059.8	1083.7	1102.1	1116.8	1126.0	1127.9
67.5°	816.9	862.9	907.1	947.6	984.4	1019.3	1043.2	1061.6	1076.3	1087.4	1089.2
70°	770.9	818.8	862.9	907.1	943.9	978.8	1004.6	1023.0	1039.5	1046.9	1050.6
72.5°	726.8	776.4	822.4	866.6	903.4	938.4	966.0	984.4	1000.9	1010.1	1011.9
75°	684.4	734.1	783.8	826.1	864.8	899.7	927.3	947.6	962.3	971.5	975.2
77.5°	642.1	693.6	743.3	785.6	826.1	861.1	885.0	908.9	923.6	934.7	934.7
80°	599.8	653.2	704.7	747.0	787.5	818.8	846.4	870.3	885.0	896.0	896.0
82.5°	563.0	614.5	664.2	706.5	747.0	782.0	809.6	831.6	848.2	855.6	857.4
85°	520.7	577.7	623.7	669.7	708.4	741.5	769.1	793.0	807.7	815.1	818.8
87.5°	485.7	540.9	590.6	631.1	669.7	702.8	734.1	754.4	769.1	778.3	782.0
90°	452.6	506.0	555.7	596.1	636.6	667.9	697.3	717.6	734.1	741.5	745.2
92.5°	423.2	476.5	524.4	564.9	603.5	638.4	666.0	686.3	701.0	708.4	713.9
95°	395.6	447.1	493.1	537.3	574.1	605.3	634.8	655.0	671.6	677.1	682.6
97.5°	368.0	417.7	463.7	506.0	544.6	574.1	601.7	621.9	634.8	644.0	649.5
100°	344.1	391.9	436.1	476.5	513.3	540.9	570.4	588.8	601.7	609.0	616.4
102.5°	318.3	366.1	408.5	447.1	485.7	511.5	539.1	557.5	568.5	581.4	581.4
105°	296.2	340.4	382.7	419.5	452.6	483.9	507.8	526.2	539.1	548.3	548.3
107.5°	272.3	316.5	356.9	395.6	426.9	456.3	478.4	494.9	509.7	515.2	520.7
110°	253.9	292.5	333.0	369.8	399.3	426.9	448.9	467.3	480.2	485.7	489.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	231.8	272.3	309.1	344.1	373.5	399.3	421.3	436.1	448.9	456.3	458.1
115°	213.4	252.1	285.2	318.3	349.6	371.7	391.9	406.6	419.5	425.0	428.7
117.5°	196.9	231.8	264.9	292.5	322.0	345.9	366.1	379.0	390.1	397.4	401.1
120°	180.3	213.4	242.9	270.5	298.1	320.1	338.5	351.4	364.3	369.8	369.8
122.5°	163.8	195.0	222.6	248.4	274.1	294.4	314.6	325.7	336.7	342.2	342.2
125°	149.0	178.5	204.2	228.1	252.1	270.5	287.0	299.9	310.9	314.6	314.6
127.5°	134.3	161.9	185.8	207.9	228.1	246.5	263.1	276.0	285.2	288.9	288.9
130°	121.4	145.4	167.4	189.5	209.7	224.5	241.0	252.1	257.6	263.1	264.9
132.5°	108.6	130.6	150.9	169.3	189.5	204.2	217.1	228.1	233.7	239.2	241.0
135°	95.7	115.9	134.3	152.7	169.3	184.0	195.0	204.2	211.6	215.3	217.1
137.5°	81.0	103.0	119.6	134.3	152.7	163.8	176.6	182.2	189.5	193.2	193.2
140°	68.1	84.6	103.0	117.8	132.5	143.5	154.6	163.8	169.3	171.1	171.1
142.5°	55.2	69.9	84.6	103.0	115.9	125.1	136.2	143.5	147.2	149.0	150.9
145°	44.2	55.2	68.1	84.6	99.4	110.4	115.9	123.3	127.0	128.8	130.6
147.5°	33.1	44.2	55.2	66.2	81.0	92.0	97.5	104.9	108.6	110.4	110.4
150°	25.8	33.1	40.5	51.5	62.6	75.4	82.8	88.3	90.2	92.0	92.0
152.5°	18.4	25.8	31.3	38.6	46.0	57.0	68.1	71.8	73.6	75.4	75.4
155°	12.9	18.4	22.1	27.6	33.1	42.3	51.5	57.0	58.9	60.7	60.7
157.5°	9.2	12.9	14.7	20.2	23.9	27.6	35.0	44.2	46.0	46.0	46.0
160°	5.5	7.4	9.2	12.9	14.7	18.4	22.1	27.6	33.1	33.1	33.1
162.5°	3.7	5.5	5.5	7.4	7.4	11.0	12.9	14.7	20.2	22.1	22.1
165°	1.8	3.7	3.7	3.7	3.7	3.7	5.5	5.5	9.2	11.0	11.0
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: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2
2.5°	1740.6	1744.2	1742.4	1742.4	1742.4	1746.1	1742.4	1725.8	1729.5	1733.2	1736.9
5°	1738.7	1740.6	1740.6	1738.7	1738.7	1742.4	1738.7	1722.2	1725.8	1729.5	1731.4
7.5°	1731.4	1733.2	1733.2	1733.2	1731.4	1735.0	1729.5	1714.8	1714.8	1718.5	1720.3
10°	1722.2	1725.8	1724.0	1722.2	1722.2	1722.2	1718.5	1701.9	1701.9	1703.8	1705.6
12.5°	1711.1	1711.1	1711.1	1709.3	1707.4	1707.4	1703.8	1687.2	1685.4	1689.0	1687.2
15°	1696.4	1700.1	1696.4	1694.6	1690.9	1690.9	1685.4	1668.8	1665.1	1667.0	1665.1
17.5°	1683.5	1685.4	1681.7	1678.0	1674.3	1672.5	1667.0	1648.6	1643.0	1644.9	1641.2
20°	1670.6	1670.6	1667.0	1663.3	1657.8	1652.2	1644.9	1626.5	1617.3	1617.3	1609.9
22.5°	1654.1	1654.1	1650.4	1644.9	1639.4	1632.0	1624.6	1606.2	1591.5	1587.8	1582.3
25°	1635.7	1633.8	1632.0	1626.5	1615.4	1608.1	1600.7	1580.5	1563.9	1556.6	1547.4
27.5°	1613.6	1613.6	1608.1	1602.6	1591.5	1582.3	1573.1	1554.7	1532.6	1523.4	1510.6
30°	1589.7	1589.7	1584.2	1576.8	1565.8	1554.7	1543.7	1521.6	1499.5	1486.6	1471.9
32.5°	1565.8	1563.9	1558.4	1551.0	1540.0	1523.4	1514.2	1492.2	1466.4	1451.7	1431.4
35°	1536.3	1534.5	1529.0	1519.8	1505.0	1492.2	1477.4	1457.2	1427.8	1409.4	1387.3
37.5°	1506.9	1505.0	1501.4	1488.5	1473.8	1459.0	1440.6	1420.4	1392.8	1368.9	1346.8
40°	1477.4	1475.6	1468.2	1459.0	1440.6	1422.2	1403.9	1383.6	1354.2	1326.6	1302.7
42.5°	1446.2	1444.3	1435.1	1424.1	1403.9	1385.5	1363.4	1341.3	1311.9	1278.7	1254.8
45°	1414.9	1411.2	1402.0	1389.1	1367.1	1346.8	1324.7	1299.0	1269.5	1238.3	1207.0
47.5°	1381.8	1376.3	1367.1	1348.7	1330.3	1308.2	1282.4	1254.8	1225.4	1190.4	1157.3
50°	1345.0	1341.3	1330.3	1313.7	1291.6	1269.5	1240.1	1212.5	1177.5	1144.4	1103.9
52.5°	1310.0	1302.7	1293.5	1275.1	1253.0	1229.1	1197.8	1164.7	1129.7	1098.4	1056.1
55°	1273.2	1269.5	1256.7	1241.9	1214.3	1186.7	1157.3	1122.3	1083.7	1046.9	1006.4
57.5°	1238.3	1230.9	1219.9	1199.6	1175.7	1148.1	1116.8	1080.0	1037.7	999.1	954.9
60°	1203.3	1192.3	1179.4	1161.0	1135.2	1105.8	1072.7	1034.0	991.7	949.4	903.4
62.5°	1164.7	1155.5	1140.7	1122.3	1096.6	1065.3	1030.3	989.9	949.4	905.2	855.6
65°	1126.0	1116.8	1102.1	1083.7	1057.9	1023.0	986.2	945.7	899.7	857.4	804.0
67.5°	1087.4	1078.2	1061.6	1041.4	1015.6	982.5	943.9	901.6	855.6	809.6	754.4
70°	1048.7	1037.7	1023.0	1000.9	975.2	940.2	901.6	857.4	811.4	761.7	706.5
72.5°	1010.1	1000.9	982.5	962.3	934.7	899.7	861.1	816.9	769.1	717.6	662.4
75°	971.5	960.4	947.6	923.6	894.2	861.1	820.6	776.4	724.9	675.2	618.2
77.5°	932.8	923.6	907.1	883.2	855.6	820.6	780.1	736.0	684.4	632.9	572.2
80°	894.2	883.2	870.3	848.2	816.9	782.0	739.6	695.5	644.0	590.6	529.9
82.5°	855.6	844.5	829.8	807.7	778.3	743.3	702.8	655.0	603.5	548.3	491.3
85°	816.9	807.7	791.2	769.1	737.8	702.8	662.4	620.0	564.9	509.7	452.6
87.5°	778.3	769.1	752.5	730.4	701.0	666.0	625.6	581.4	528.1	476.5	414.0
90°	741.5	734.1	717.6	695.5	666.0	631.1	594.3	546.5	494.9	443.4	384.5
92.5°	708.4	701.0	686.3	664.2	638.4	599.8	563.0	517.0	465.5	412.1	355.1
95°	678.9	669.7	655.0	634.8	603.5	570.4	533.6	487.6	437.9	384.5	329.3
97.5°	645.8	636.6	621.9	599.8	574.1	539.1	502.3	458.1	408.5	358.8	303.6
100°	612.7	603.5	586.9	568.5	542.8	507.8	472.9	428.7	382.7	334.9	281.5
102.5°	579.6	570.4	555.7	537.3	511.5	480.2	445.3	402.9	356.9	309.1	259.4
105°	548.3	539.1	524.4	506.0	482.1	450.8	414.0	377.2	333.0	287.0	239.2
107.5°	517.0	507.8	494.9	476.5	452.6	423.2	388.2	349.6	309.1	264.9	218.9
110°	485.7	478.4	463.7	447.1	423.2	393.7	362.5	325.7	285.2	244.7	200.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	456.3	448.9	434.2	415.8	395.6	368.0	336.7	301.7	263.1	224.5	182.2
115°	426.9	417.7	404.8	388.2	368.0	342.2	312.8	281.5	242.9	206.1	167.4
117.5°	397.4	390.1	377.2	360.6	342.2	316.5	288.9	259.4	222.6	187.7	152.7
120°	368.0	362.5	349.6	334.9	316.5	292.5	266.8	237.3	204.2	171.1	138.0
122.5°	340.4	334.9	322.0	309.1	290.7	268.6	244.7	217.1	187.7	156.4	127.0
125°	314.6	307.3	296.2	283.3	266.8	246.5	222.6	196.9	169.3	141.7	114.1
127.5°	287.0	281.5	274.1	259.4	242.9	224.5	202.4	180.3	154.6	128.8	103.0
130°	264.9	257.6	248.4	237.3	222.6	204.2	184.0	161.9	139.8	115.9	90.2
132.5°	239.2	231.8	224.5	213.4	200.6	184.0	165.6	145.4	125.1	103.0	81.0
135°	215.3	209.7	202.4	191.4	178.5	165.6	147.2	128.8	110.4	90.2	71.8
137.5°	193.2	187.7	180.3	173.0	160.1	147.2	130.6	114.1	97.5	79.1	62.6
140°	171.1	167.4	160.1	152.7	141.7	128.8	114.1	99.4	84.6	68.1	53.4
142.5°	149.0	145.4	139.8	132.5	123.3	112.2	99.4	86.5	71.8	58.9	46.0
145°	128.8	127.0	121.4	114.1	106.7	95.7	84.6	73.6	60.7	49.7	36.8
147.5°	108.6	106.7	103.0	97.5	90.2	81.0	71.8	60.7	51.5	40.5	29.4
150°	90.2	88.3	86.5	79.1	75.4	66.2	58.9	49.7	42.3	31.3	23.9
152.5°	73.6	73.6	69.9	64.4	60.7	53.4	47.8	40.5	33.1	25.8	18.4
155°	58.9	57.0	55.2	51.5	47.8	42.3	36.8	31.3	25.8	18.4	12.9
157.5°	46.0	44.2	42.3	38.6	35.0	33.1	27.6	22.1	16.6	12.9	9.2
160°	33.1	31.3	29.4	27.6	25.8	22.1	18.4	14.7	11.0	7.4	5.5
162.5°	22.1	20.2	20.2	18.4	16.6	12.9	11.0	9.2	7.4	5.5	3.7
165°	11.0	11.0	9.2	9.2	7.4	5.5	5.5	5.5	3.7	3.7	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: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2
2.5°	1735.0	1735.0	1742.4	1740.6	1735.0	1746.1	1759.0
5°	1729.5	1729.5	1735.0	1735.0	1729.5	1740.6	1751.6
7.5°	1720.3	1718.5	1724.0	1724.0	1716.6	1725.8	1738.7
10°	1703.8	1701.9	1707.4	1707.4	1700.1	1709.3	1720.3
12.5°	1685.4	1681.7	1687.2	1685.4	1678.0	1687.2	1698.2
15°	1661.4	1659.6	1663.3	1659.6	1652.2	1661.4	1672.5
17.5°	1637.5	1632.0	1633.8	1633.8	1621.0	1630.2	1639.4
20°	1606.2	1598.9	1600.7	1598.9	1589.7	1595.2	1606.2
22.5°	1575.0	1563.9	1563.9	1562.1	1551.0	1558.4	1567.6
25°	1536.3	1523.4	1523.4	1521.6	1508.7	1514.2	1523.4
27.5°	1497.7	1484.8	1479.3	1477.4	1464.6	1464.6	1477.4
30°	1457.2	1438.8	1435.1	1429.6	1416.7	1416.7	1427.8
32.5°	1418.6	1392.8	1385.5	1378.1	1365.2	1363.4	1376.3
35°	1367.1	1346.8	1333.9	1326.6	1311.9	1308.2	1319.2
37.5°	1324.7	1299.0	1280.6	1271.4	1256.7	1251.1	1265.9
40°	1278.7	1251.1	1227.2	1221.7	1199.6	1192.3	1205.1
42.5°	1227.2	1197.8	1173.9	1162.8	1146.3	1138.9	1140.7
45°	1175.7	1144.4	1118.7	1103.9	1087.4	1074.5	1081.9
47.5°	1122.3	1094.7	1063.5	1041.4	1021.1	1011.9	1015.6
50°	1069.0	1035.9	1006.4	982.5	958.6	947.6	954.9
52.5°	1015.6	980.7	947.6	921.8	894.2	883.2	885.0
55°	964.1	927.3	888.7	861.1	835.3	818.8	815.1
57.5°	912.6	872.1	831.6	800.4	767.2	752.5	747.0
60°	857.4	815.1	772.8	736.0	701.0	684.4	677.1
62.5°	805.9	759.9	712.0	673.4	638.4	616.4	610.8
65°	756.2	702.8	655.0	610.8	572.2	548.3	540.9
67.5°	702.8	647.6	596.1	548.3	511.5	480.2	476.5
70°	653.2	594.3	537.3	487.6	447.1	415.8	401.1
72.5°	603.5	542.8	483.9	430.5	379.0	349.6	338.5
75°	555.7	493.1	430.5	375.3	318.3	283.3	272.3
77.5°	511.5	447.1	380.9	320.1	266.8	222.6	207.9
80°	469.2	402.9	333.0	270.5	213.4	165.6	149.0
82.5°	425.0	362.5	290.7	224.5	165.6	115.9	95.7
85°	386.4	323.8	252.1	185.8	127.0	73.6	51.5
87.5°	355.1	287.0	222.6	156.4	95.7	42.3	14.7
90°	323.8	257.6	193.2	128.8	71.8	23.9	1.8
92.5°	296.2	233.7	169.3	110.4	55.2	16.6	1.8
95°	270.5	209.7	149.0	92.0	44.2	11.0	1.8
97.5°	246.5	189.5	132.5	79.1	36.8	9.2	1.8
100°	226.3	171.1	117.8	69.9	31.3	7.4	1.8
102.5°	206.1	154.6	104.9	60.7	27.6	5.5	1.8
105°	189.5	139.8	93.8	55.2	23.9	5.5	1.8
107.5°	173.0	127.0	84.6	47.8	20.2	3.7	1.8
110°	156.4	115.9	75.4	42.3	18.4	3.7	1.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	143.5	104.9	68.1	38.6	14.7	3.7	1.8
115°	130.6	93.8	60.7	33.1	12.9	1.8	1.8
117.5°	117.8	84.6	53.4	29.4	11.0	1.8	1.8
120°	106.7	75.4	47.8	25.8	9.2	1.8	1.8
122.5°	95.7	68.1	42.3	22.1	7.4	1.8	1.8
125°	86.5	60.7	36.8	18.4	5.5	1.8	1.8
127.5°	77.3	53.4	33.1	16.6	5.5	1.8	1.8
130°	68.1	47.8	27.6	12.9	3.7	1.8	1.8
132.5°	60.7	40.5	23.9	11.0	3.7	1.8	1.8
135°	53.4	35.0	20.2	7.4	3.7	1.8	1.8
137.5°	46.0	29.4	16.6	5.5	1.8	1.8	1.8
140°	38.6	25.8	12.9	5.5	1.8	1.8	1.8
142.5°	33.1	20.2	9.2	3.7	1.8	1.8	1.8
145°	25.8	16.6	7.4	3.7	1.8	1.8	1.8
147.5°	20.2	12.9	5.5	3.7	1.8	1.8	1.8
150°	14.7	9.2	5.5	1.8	1.8	1.8	1.8
152.5°	11.0	7.4	3.7	1.8	1.8	1.8	1.8
155°	7.4	5.5	3.7	1.8	1.8	1.8	1.8
157.5°	5.5	3.7	1.8	1.8	1.8	1.8	1.8
160°	3.7	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)