

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-L930-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-L930-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
WIDE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

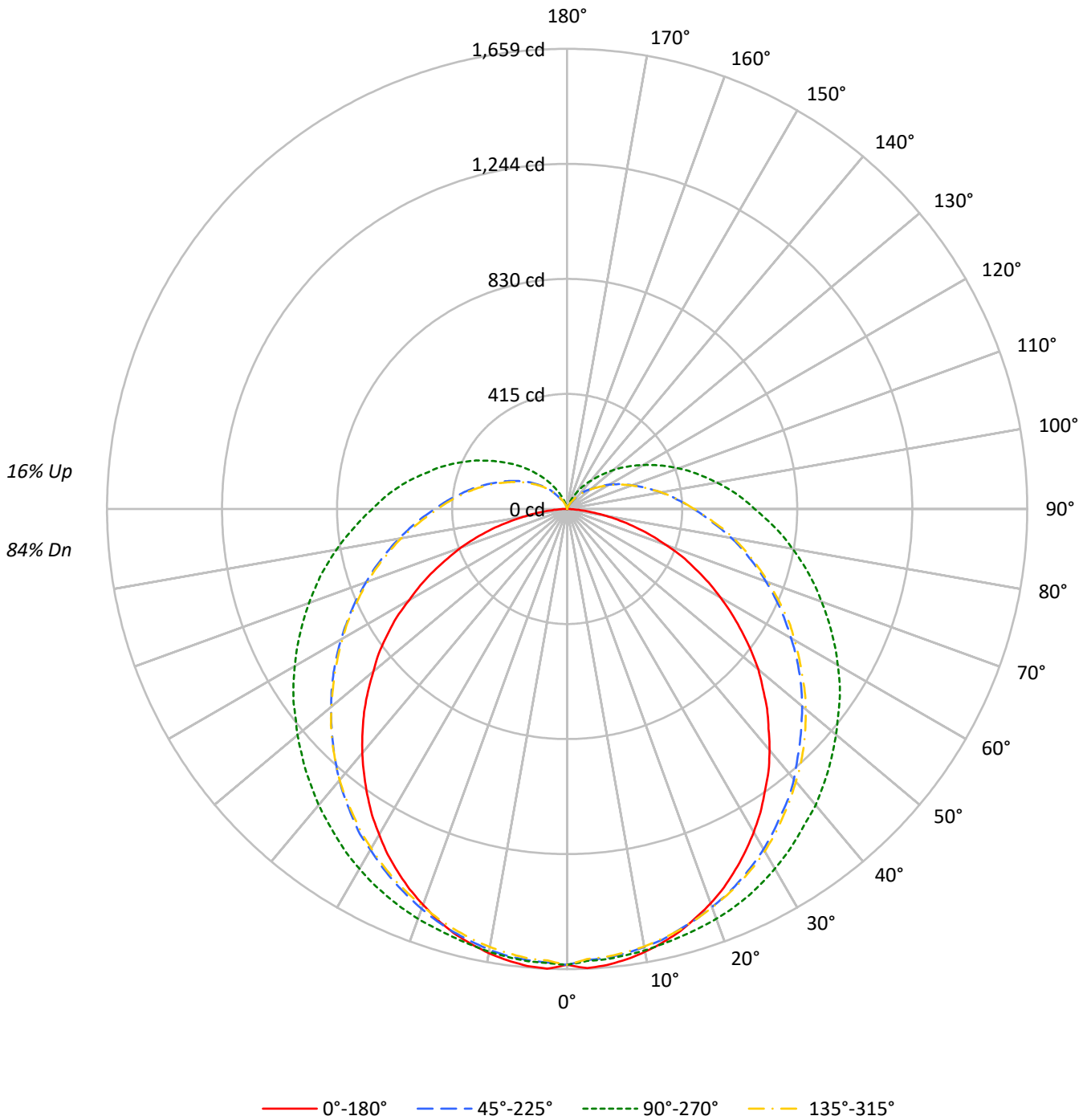
Lumens per Lamp: N/A  
Luminaire Lumens: 7140.0 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Semi-Direct

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



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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	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°	6640	6640	6640	6640
5°	6685	6399	6699	6426
10°	6632	6217	6653	6237
15°	6564	6062	6593	6068
20°	6471	5948	6493	5948
25°	6353	5847	6392	5841
30°	6220	5743	6268	5743
35°	6065	5647	6132	5654
40°	5912	5591	5984	5591
45°	5735	5531	5823	5539
50°	5552	5496	5627	5511
55°	5292	5501	5459	5525
60°	5020	5518	5183	5552
65°	4715	5574	4923	5629
70°	4281	5676	4615	5757
75°	3785	5862	4142	5974
80°	3001	6137	3409	6278
85°	1908	6577	2388	6760



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.7	2.2
10°-20°	447.4	6.3
20°-30°	686.0	9.6
30°-40°	846.3	11.9
40°-50°	918.2	12.9
50°-60°	905.0	12.7
60°-70°	818.2	11.5
70°-80°	681.7	9.5
80°-90°	528.0	7.4
90°-100°	400.4	5.6
100°-110°	296.3	4.2
110°-120°	206.1	2.9
120°-130°	131.5	1.8
130°-140°	73.8	1.0
140°-150°	33.7	0.5
150°-160°	10.4	0.1
160°-170°	1.3	0.0
170°-180°	0.0	0.0
0°-30°	1289.1	18.1
0°-40°	2135.4	29.9
0°-60°	3958.6	55.4
0°-90°	5986.4	83.8
90°-120°	902.8	12.6
90°-150°	1141.8	16.0
90°-180°	1154.0	16.2
0°-180°	7140.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1643	1643	1643	1643	1643	
5°	1650	1630	1654	1636	1650	157
15°	1576	1595	1583	1597	1576	444
25°	1435	1541	1444	1539	1435	661
35°	1243	1446	1257	1448	1243	778
45°	1019	1331	1035	1333	1019	785
55°	768	1200	792	1205	768	687
65°	510	1052	532	1063	510	505
75°	257	902	281	919	257	272
85°	48	751	61	771	48	59
90°	2	676	4	702	2	3
95°	2	614	2	643	2	1
105°	2	487	2	517	2	2
115°	2	371	2	404	2	2
125°	2	267	2	296	2	2
135°	2	173	2	205	2	1
145°	2	100	2	123	2	1
155°	2	42	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#

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4
2.5°	1657.3	1657.3	1655.6	1652.1	1653.8	1659.0	1655.6	1646.9	1641.7	1627.8	1631.3
5°	1650.4	1650.4	1648.6	1645.2	1646.9	1653.8	1650.4	1643.4	1636.5	1624.3	1629.5
7.5°	1638.2	1638.2	1636.5	1633.0	1636.5	1643.4	1640.0	1633.0	1627.8	1615.7	1620.9
10°	1620.9	1622.6	1620.9	1615.7	1622.6	1629.5	1627.8	1619.1	1613.9	1603.5	1608.7
12.5°	1600.1	1601.8	1600.1	1598.3	1601.8	1612.2	1608.7	1601.8	1598.3	1589.7	1594.9
15°	1575.8	1577.5	1574.1	1574.1	1577.5	1587.9	1587.9	1581.0	1577.5	1568.9	1579.3
17.5°	1544.6	1546.3	1544.6	1544.6	1548.1	1558.5	1560.2	1556.7	1553.3	1549.8	1560.2
20°	1513.4	1511.7	1511.7	1509.9	1516.9	1532.5	1530.7	1530.7	1527.3	1527.3	1539.4
22.5°	1477.0	1477.0	1475.3	1475.3	1483.9	1497.8	1497.8	1501.3	1497.8	1504.7	1515.1
25°	1435.4	1437.1	1435.4	1438.9	1445.8	1461.4	1463.1	1468.3	1470.1	1477.0	1489.1
27.5°	1392.1	1393.8	1392.1	1395.5	1407.7	1419.8	1428.5	1435.4	1437.1	1447.5	1463.1
30°	1345.2	1345.2	1347.0	1350.4	1364.3	1383.4	1390.3	1399.0	1399.0	1416.3	1431.9
32.5°	1296.7	1296.7	1296.7	1303.6	1319.2	1341.8	1350.4	1360.8	1364.3	1381.7	1399.0
35°	1243.0	1244.7	1244.7	1249.9	1270.7	1293.2	1305.4	1317.5	1324.4	1345.2	1362.6
37.5°	1192.7	1196.2	1191.0	1197.9	1227.4	1246.4	1260.3	1272.4	1284.6	1312.3	1326.2
40°	1135.5	1139.0	1137.2	1151.1	1175.4	1199.6	1215.2	1227.4	1244.7	1272.4	1288.0
42.5°	1074.8	1078.3	1081.7	1097.3	1123.3	1147.6	1166.7	1182.3	1203.1	1227.4	1253.4
45°	1019.3	1019.3	1024.5	1043.6	1071.3	1097.3	1119.9	1137.2	1161.5	1187.5	1213.5
47.5°	956.9	958.7	965.6	988.1	1017.6	1048.8	1069.6	1092.1	1118.1	1145.9	1175.4
50°	899.7	899.7	910.1	934.4	962.1	996.8	1019.3	1045.3	1073.1	1106.0	1135.5
52.5°	833.8	837.3	852.9	875.4	911.9	943.1	969.1	996.8	1029.7	1064.4	1097.3
55°	768.0	774.9	787.0	818.2	856.4	885.9	917.1	951.7	982.9	1021.1	1059.2
57.5°	703.8	709.0	728.1	759.3	799.2	835.6	868.5	901.5	939.6	977.7	1017.6
60°	638.0	644.9	667.4	698.6	742.0	780.1	818.2	852.9	892.8	932.7	974.3
62.5°	575.5	580.7	606.7	643.2	686.5	728.1	766.2	807.8	851.2	889.3	930.9
65°	509.7	518.3	547.8	580.7	631.0	672.6	716.0	761.0	806.1	847.7	887.6
67.5°	449.0	454.2	485.4	523.5	573.8	620.6	665.7	714.2	761.0	804.4	844.2
70°	377.9	395.3	426.5	466.3	520.1	568.6	617.1	667.4	717.7	762.8	800.9
72.5°	319.0	332.8	367.5	410.9	462.9	520.1	570.3	624.1	674.4	721.2	761.0
75°	256.6	270.4	310.3	358.8	412.6	473.3	525.3	580.7	632.8	679.6	721.2
77.5°	195.9	213.2	256.6	306.8	365.8	428.2	481.9	537.4	591.1	641.4	683.0
80°	140.4	159.5	206.3	263.5	320.7	383.1	442.1	497.5	551.3	601.5	644.9
82.5°	90.1	110.9	161.2	218.4	279.1	341.5	402.2	457.7	511.4	561.7	606.7
85°	48.5	71.1	123.1	180.3	241.0	303.4	364.0	423.0	475.0	521.8	570.3
87.5°	13.9	41.6	91.9	149.1	211.5	268.7	327.6	386.6	438.6	488.9	532.2
90°	1.7	24.3	69.3	123.1	183.8	239.2	298.2	353.6	405.7	455.9	499.3
92.5°	1.7	15.6	53.7	102.3	157.8	215.0	273.9	327.6	376.2	426.5	469.8
95°	1.7	12.1	43.3	86.7	138.7	192.4	247.9	299.9	350.2	397.0	440.3
97.5°	1.7	8.7	34.7	74.5	121.3	171.6	225.4	277.4	325.9	371.0	410.9
100°	1.7	6.9	27.7	64.1	105.7	154.3	202.8	253.1	299.9	343.2	384.9
102.5°	1.7	5.2	24.3	53.7	93.6	137.0	183.8	230.6	275.6	317.2	358.8
105°	1.7	5.2	20.8	46.8	83.2	123.1	166.4	211.5	253.1	293.0	331.1
107.5°	1.7	3.5	17.3	39.9	72.8	110.9	150.8	194.2	232.3	270.4	306.8
110°	1.7	3.5	13.9	36.4	64.1	98.8	137.0	176.8	213.2	249.6	284.3



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CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.7	3.5	12.1	31.2	55.5	88.4	123.1	159.5	194.2	230.6	261.8
115°	1.7	3.5	10.4	27.7	52.0	76.3	110.9	143.9	178.6	211.5	241.0
117.5°	1.7	3.5	8.7	22.5	45.1	69.3	97.1	130.0	161.2	192.4	220.2
120°	1.7	3.5	6.9	20.8	39.9	62.4	86.7	116.1	145.6	175.1	204.6
122.5°	1.7	1.7	6.9	17.3	34.7	55.5	79.7	102.3	130.0	157.8	183.8
125°	1.7	1.7	6.9	15.6	29.5	50.3	71.1	91.9	116.1	140.4	163.0
127.5°	1.7	1.7	5.2	12.1	26.0	43.3	62.4	84.9	102.3	124.8	147.4
130°	1.7	1.7	5.2	10.4	22.5	36.4	55.5	74.5	95.3	110.9	130.0
132.5°	1.7	1.7	5.2	8.7	17.3	29.5	46.8	64.1	83.2	100.5	116.1
135°	1.7	1.7	3.5	6.9	13.9	24.3	38.1	53.7	72.8	90.1	105.7
137.5°	1.7	1.7	3.5	6.9	10.4	20.8	29.5	43.3	60.7	76.3	91.9
140°	1.7	1.7	3.5	5.2	8.7	15.6	24.3	34.7	48.5	62.4	79.7
142.5°	1.7	1.7	1.7	5.2	6.9	12.1	19.1	27.7	38.1	50.3	64.1
145°	1.7	1.7	1.7	5.2	6.9	8.7	15.6	22.5	29.5	38.1	50.3
147.5°	1.7	1.7	1.7	3.5	5.2	6.9	12.1	17.3	22.5	29.5	36.4
150°	1.7	1.7	1.7	3.5	5.2	6.9	8.7	12.1	17.3	24.3	29.5
152.5°	1.7	1.7	1.7	3.5	3.5	5.2	6.9	8.7	12.1	17.3	20.8
155°	1.7	1.7	1.7	1.7	3.5	5.2	6.9	6.9	8.7	12.1	15.6
157.5°	1.7	1.7	1.7	1.7	3.5	3.5	5.2	5.2	6.9	6.9	10.4
160°	1.7	1.7	1.7	1.7	1.7	3.5	3.5	5.2	5.2	5.2	5.2
162.5°	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5	3.5	5.2	5.2
165°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	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°	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4
2.5°	1631.3	1633.0	1638.2	1638.2	1634.8	1634.8	1633.0	1631.3	1633.0	1636.5	1636.5
5°	1627.8	1629.5	1634.8	1636.5	1633.0	1631.3	1631.3	1629.5	1631.3	1634.8	1634.8
7.5°	1620.9	1622.6	1627.8	1629.5	1626.1	1626.1	1624.3	1622.6	1626.1	1627.8	1627.8
10°	1610.5	1612.2	1619.1	1620.9	1619.1	1617.4	1617.4	1615.7	1617.4	1620.9	1620.9
12.5°	1596.6	1600.1	1608.7	1608.7	1608.7	1607.0	1607.0	1605.3	1607.0	1610.5	1608.7
15°	1581.0	1587.9	1594.9	1598.3	1598.3	1598.3	1596.6	1594.9	1598.3	1600.1	1598.3
17.5°	1563.7	1572.3	1582.7	1586.2	1586.2	1587.9	1586.2	1584.5	1587.9	1587.9	1586.2
20°	1546.3	1555.0	1565.4	1568.9	1572.3	1574.1	1574.1	1572.3	1574.1	1575.8	1574.1
22.5°	1523.8	1534.2	1546.3	1551.5	1555.0	1558.5	1558.5	1558.5	1560.2	1561.9	1558.5
25°	1499.5	1511.7	1525.5	1530.7	1537.7	1539.4	1541.1	1541.1	1542.9	1544.6	1539.4
27.5°	1473.5	1487.4	1501.3	1509.9	1515.1	1518.6	1518.6	1520.3	1522.1	1523.8	1518.6
30°	1442.3	1463.1	1475.3	1482.2	1489.1	1494.3	1496.1	1497.8	1499.5	1501.3	1496.1
32.5°	1414.6	1431.9	1447.5	1456.2	1464.9	1471.8	1473.5	1473.5	1477.0	1477.0	1471.8
35°	1381.7	1402.5	1418.1	1426.7	1437.1	1442.3	1445.8	1445.8	1449.3	1449.3	1444.1
37.5°	1348.7	1369.5	1386.9	1397.3	1409.4	1416.3	1418.1	1418.1	1421.5	1421.5	1414.6
40°	1314.0	1336.6	1355.6	1367.8	1378.2	1386.9	1388.6	1393.8	1393.8	1392.1	1385.1
42.5°	1279.4	1300.2	1321.0	1334.8	1348.7	1357.4	1360.8	1362.6	1362.6	1360.8	1355.6
45°	1241.2	1265.5	1284.6	1301.9	1315.8	1324.4	1329.6	1331.4	1331.4	1327.9	1322.7
47.5°	1204.8	1229.1	1248.2	1267.2	1281.1	1291.5	1296.7	1298.4	1296.7	1295.0	1289.8
50°	1166.7	1194.4	1213.5	1232.6	1246.4	1255.1	1263.8	1265.5	1263.8	1262.0	1251.6
52.5°	1126.8	1156.3	1177.1	1196.2	1211.8	1222.2	1229.1	1230.8	1230.8	1227.4	1220.4
55°	1086.9	1112.9	1139.0	1159.8	1177.1	1187.5	1196.2	1199.6	1196.2	1192.7	1184.0
57.5°	1050.5	1074.8	1100.8	1123.3	1140.7	1154.6	1161.5	1165.0	1161.5	1156.3	1147.6
60°	1007.2	1033.2	1062.7	1083.5	1102.5	1116.4	1119.9	1126.8	1123.3	1118.1	1109.5
62.5°	965.6	996.8	1022.8	1048.8	1064.4	1080.0	1086.9	1090.4	1086.9	1081.7	1073.1
65°	922.3	956.9	982.9	1008.9	1026.3	1041.9	1050.5	1052.3	1048.8	1043.6	1034.9
67.5°	882.4	915.3	943.1	970.8	986.4	1002.0	1010.7	1014.1	1010.7	1003.7	995.1
70°	842.5	875.4	908.4	929.2	948.3	965.6	970.8	976.0	972.5	965.6	955.2
72.5°	802.6	837.3	870.2	891.1	911.9	927.5	934.4	939.6	936.1	929.2	917.1
75°	761.0	797.4	830.4	852.9	873.7	889.3	896.3	901.5	898.0	891.1	877.2
77.5°	722.9	759.3	790.5	814.8	835.6	849.4	861.6	863.3	859.8	852.9	839.0
80°	683.0	719.4	752.4	776.6	797.4	811.3	820.0	825.2	821.7	814.8	800.9
82.5°	648.4	681.3	714.2	738.5	759.3	776.6	783.6	788.8	787.0	776.6	766.2
85°	610.2	648.4	674.4	700.4	721.2	738.5	743.7	750.6	748.9	740.2	726.4
87.5°	572.1	610.2	641.4	667.4	686.5	700.4	709.0	712.5	710.8	702.1	686.5
90°	540.9	575.5	606.7	634.5	650.1	665.7	674.4	676.1	676.1	665.7	653.6
92.5°	511.4	544.3	575.5	601.5	620.6	634.5	641.4	644.9	643.2	634.5	620.6
95°	478.5	514.9	544.3	570.3	589.4	603.3	610.2	613.7	611.9	603.3	589.4
97.5°	450.7	483.7	513.1	537.4	556.5	570.3	577.3	580.7	580.7	572.1	558.2
100°	423.0	455.9	483.7	507.9	525.3	539.1	546.1	547.8	546.1	539.1	525.3
102.5°	395.3	426.5	454.2	476.7	495.8	507.9	514.9	516.6	516.6	507.9	494.1
105°	367.5	398.7	424.7	449.0	464.6	476.7	481.9	487.1	485.4	478.5	464.6
107.5°	341.5	372.7	397.0	419.5	435.1	447.3	452.5	457.7	455.9	449.0	435.1
110°	317.2	346.7	369.2	391.8	405.7	417.8	426.5	428.2	424.7	417.8	405.7





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	294.7	320.7	343.2	364.0	379.7	388.3	395.3	398.7	395.3	388.3	379.7
115°	270.4	296.4	319.0	338.0	351.9	362.3	367.5	371.0	367.5	360.6	351.9
117.5°	247.9	272.2	294.7	313.8	325.9	334.6	339.8	343.2	339.8	334.6	325.9
120°	228.8	249.6	270.4	287.8	301.6	308.6	313.8	317.2	315.5	308.6	299.9
122.5°	206.3	228.8	247.9	265.2	277.4	284.3	287.8	291.2	289.5	284.3	275.6
125°	187.2	206.3	225.4	241.0	253.1	260.0	263.5	267.0	265.2	260.0	249.6
127.5°	166.4	187.2	202.8	218.4	227.1	237.5	239.2	242.7	241.0	235.8	227.1
130°	150.8	166.4	182.0	195.9	206.3	213.2	216.7	218.4	215.0	211.5	202.8
132.5°	131.8	149.1	163.0	175.1	182.0	189.0	192.4	194.2	194.2	189.0	182.0
135°	117.9	130.0	142.2	154.3	161.2	168.2	171.6	173.4	171.6	168.2	161.2
137.5°	105.7	116.1	124.8	135.2	143.9	147.4	150.8	150.8	149.1	147.4	142.2
140°	91.9	104.0	112.7	119.6	126.6	128.3	131.8	131.8	130.0	128.3	124.8
142.5°	78.0	88.4	97.1	105.7	110.9	114.4	116.1	117.9	116.1	114.4	109.2
145°	62.4	74.5	83.2	88.4	95.3	97.1	98.8	100.5	98.8	97.1	91.9
147.5°	48.5	58.9	67.6	74.5	79.7	81.5	83.2	84.9	83.2	79.7	78.0
150°	34.7	43.3	53.7	60.7	64.1	67.6	67.6	67.6	69.3	65.9	62.4
152.5°	27.7	31.2	38.1	45.1	50.3	52.0	53.7	53.7	52.0	52.0	48.5
155°	19.1	22.5	27.7	32.9	38.1	39.9	41.6	41.6	39.9	39.9	38.1
157.5°	12.1	15.6	19.1	22.5	27.7	29.5	31.2	31.2	31.2	29.5	27.7
160°	6.9	8.7	10.4	13.9	17.3	19.1	20.8	20.8	20.8	20.8	19.1
162.5°	5.2	5.2	5.2	6.9	8.7	10.4	12.1	12.1	12.1	12.1	10.4
165°	3.5	3.5	3.5	3.5	3.5	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-LD5-88SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4
2.5°	1634.8	1634.8	1636.5	1633.0	1622.6	1624.3	1624.3	1631.3	1634.8	1636.5	1645.2
5°	1631.3	1631.3	1634.8	1629.5	1620.9	1620.9	1620.9	1627.8	1629.5	1633.0	1640.0
7.5°	1626.1	1626.1	1627.8	1622.6	1612.2	1612.2	1610.5	1617.4	1620.9	1622.6	1629.5
10°	1617.4	1617.4	1619.1	1613.9	1601.8	1601.8	1600.1	1605.3	1607.0	1610.5	1615.7
12.5°	1605.3	1605.3	1605.3	1600.1	1587.9	1586.2	1584.5	1589.7	1589.7	1591.4	1596.6
15°	1594.9	1591.4	1591.4	1586.2	1574.1	1570.6	1567.1	1568.9	1572.3	1570.6	1574.1
17.5°	1582.7	1579.3	1575.8	1570.6	1555.0	1549.8	1546.3	1548.1	1546.3	1544.6	1548.1
20°	1568.9	1563.7	1561.9	1553.3	1537.7	1529.0	1522.1	1518.6	1520.3	1515.1	1516.9
22.5°	1553.3	1546.3	1542.9	1532.5	1516.9	1506.5	1497.8	1490.9	1489.1	1482.2	1483.9
25°	1534.2	1525.5	1520.3	1511.7	1494.3	1482.2	1471.8	1461.4	1456.2	1447.5	1445.8
27.5°	1511.7	1503.0	1496.1	1487.4	1470.1	1454.5	1442.3	1428.5	1421.5	1411.1	1405.9
30°	1489.1	1478.7	1468.3	1461.4	1442.3	1425.0	1405.9	1393.8	1383.4	1371.2	1362.6
32.5°	1461.4	1451.0	1440.6	1430.2	1412.9	1392.1	1376.4	1357.4	1345.2	1331.4	1321.0
35°	1433.7	1419.8	1409.4	1395.5	1379.9	1355.6	1336.6	1317.5	1301.9	1286.3	1274.2
37.5°	1402.5	1392.1	1376.4	1364.3	1345.2	1321.0	1300.2	1275.9	1262.0	1241.2	1225.6
40°	1373.0	1360.8	1345.2	1329.6	1310.6	1282.8	1260.3	1232.6	1217.0	1192.7	1177.1
42.5°	1343.5	1326.2	1310.6	1293.2	1272.4	1246.4	1218.7	1191.0	1170.2	1147.6	1125.1
45°	1310.6	1291.5	1272.4	1253.4	1232.6	1206.6	1177.1	1147.6	1121.6	1100.8	1073.1
47.5°	1275.9	1256.8	1234.3	1213.5	1191.0	1165.0	1133.8	1102.5	1074.8	1050.5	1021.1
50°	1241.2	1222.2	1197.9	1175.4	1149.4	1123.3	1090.4	1054.0	1024.5	993.3	967.3
52.5°	1204.8	1185.8	1163.2	1133.8	1106.0	1080.0	1045.3	1007.2	974.3	948.3	915.3
55°	1168.4	1149.4	1123.3	1093.9	1066.1	1033.2	1000.3	962.1	925.7	894.5	861.6
57.5°	1130.3	1112.9	1083.5	1059.2	1024.5	989.9	955.2	918.8	878.9	842.5	804.4
60°	1092.1	1073.1	1045.3	1015.9	981.2	946.5	910.1	870.2	828.6	788.8	754.1
62.5°	1057.5	1033.2	1007.2	976.0	939.6	906.7	865.0	821.7	780.1	738.5	696.9
65°	1017.6	991.6	967.3	936.1	898.0	859.8	818.2	774.9	729.8	684.8	643.2
67.5°	977.7	951.7	925.7	894.5	854.6	814.8	771.4	728.1	677.8	634.5	585.9
70°	937.9	917.1	884.1	851.2	814.8	771.4	728.1	681.3	629.3	582.5	532.2
72.5°	898.0	877.2	844.2	809.6	774.9	729.8	683.0	636.2	587.7	533.9	480.2
75°	859.8	833.8	804.4	771.4	735.0	688.2	641.4	592.9	535.7	485.4	429.9
77.5°	823.4	799.2	769.7	733.3	693.4	648.4	599.8	549.5	492.3	438.6	377.9
80°	783.6	759.3	729.8	693.4	653.6	610.2	558.2	506.2	450.7	391.8	329.4
82.5°	745.4	722.9	690.0	657.0	613.7	570.3	518.3	466.3	407.4	350.2	289.5
85°	705.6	683.0	651.8	617.1	575.5	528.7	480.2	428.2	369.2	310.3	249.6
87.5°	670.9	644.9	613.7	579.0	537.4	492.3	445.5	390.1	332.8	275.6	213.2
90°	634.5	610.2	579.0	544.3	502.7	457.7	409.1	357.1	301.6	242.7	183.8
92.5°	603.3	577.3	547.8	513.1	471.5	428.2	379.7	327.6	273.9	216.7	159.5
95°	572.1	546.1	518.3	483.7	442.1	398.7	350.2	299.9	247.9	192.4	138.7
97.5°	537.4	514.9	487.1	454.2	412.6	371.0	324.2	275.6	225.4	171.6	121.3
100°	509.7	483.7	457.7	423.0	384.9	345.0	298.2	251.4	202.8	152.6	105.7
102.5°	478.5	454.2	428.2	395.3	357.1	317.2	273.9	228.8	183.8	137.0	91.9
105°	449.0	426.5	398.7	367.5	331.1	293.0	251.4	209.8	166.4	121.3	81.5
107.5°	419.5	397.0	371.0	341.5	306.8	268.7	230.6	189.0	149.1	109.2	72.8
110°	390.1	369.2	345.0	315.5	282.6	247.9	211.5	173.4	133.5	97.1	64.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	364.0	343.2	319.0	291.2	260.0	227.1	192.4	156.0	119.6	86.7	55.5
115°	338.0	319.0	294.7	270.4	239.2	208.0	175.1	140.4	107.5	78.0	48.5
117.5°	312.0	293.0	270.4	246.2	218.4	189.0	157.8	124.8	97.1	69.3	43.3
120°	286.0	268.7	247.9	225.4	201.1	171.6	140.4	112.7	86.7	60.7	38.1
122.5°	261.8	246.2	227.1	206.3	180.3	152.6	126.6	102.3	78.0	53.7	31.2
125°	239.2	223.6	206.3	185.5	161.2	137.0	114.4	91.9	67.6	46.8	26.0
127.5°	216.7	201.1	183.8	164.7	145.6	123.1	102.3	81.5	60.7	41.6	22.5
130°	194.2	180.3	164.7	149.1	130.0	109.2	91.9	71.1	52.0	32.9	19.1
132.5°	171.6	161.2	147.4	131.8	114.4	98.8	79.7	62.4	45.1	29.5	17.3
135°	152.6	142.2	130.0	116.1	102.3	86.7	69.3	53.7	38.1	24.3	13.9
137.5°	135.2	126.6	114.4	102.3	90.1	74.5	60.7	45.1	31.2	20.8	10.4
140°	119.6	110.9	100.5	88.4	78.0	64.1	50.3	36.4	27.7	17.3	8.7
142.5°	104.0	95.3	86.7	76.3	65.9	53.7	41.6	31.2	22.5	13.9	8.7
145°	88.4	81.5	72.8	64.1	53.7	43.3	34.7	26.0	17.3	10.4	6.9
147.5°	72.8	67.6	58.9	52.0	43.3	34.7	27.7	20.8	13.9	8.7	5.2
150°	58.9	53.7	46.8	39.9	34.7	27.7	22.5	15.6	10.4	8.7	5.2
152.5°	45.1	41.6	36.4	32.9	27.7	20.8	15.6	12.1	8.7	6.9	3.5
155°	36.4	32.9	29.5	24.3	20.8	15.6	12.1	8.7	6.9	5.2	3.5
157.5°	26.0	24.3	20.8	17.3	13.9	10.4	8.7	8.7	5.2	3.5	1.7
160°	17.3	15.6	13.9	10.4	8.7	8.7	6.9	5.2	3.5	3.5	1.7
162.5°	10.4	8.7	8.7	8.7	6.9	6.9	5.2	3.5	3.5	1.7	1.7
165°	6.9	6.9	6.9	5.2	5.2	5.2	3.5	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-LD5-88SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4
2.5°	1645.2	1640.0	1646.9	1659.0	1660.8	1659.0	1655.6	1660.8	1667.7	1666.0	1653.8
5°	1641.7	1634.8	1641.7	1653.8	1653.8	1652.1	1650.4	1655.6	1662.5	1660.8	1650.4
7.5°	1631.3	1624.3	1631.3	1641.7	1643.4	1640.0	1640.0	1645.2	1652.1	1650.4	1641.7
10°	1617.4	1610.5	1613.9	1626.1	1629.5	1626.1	1626.1	1631.3	1640.0	1638.2	1627.8
12.5°	1596.6	1591.4	1594.9	1605.3	1608.7	1607.0	1605.3	1612.2	1620.9	1620.9	1610.5
15°	1574.1	1567.1	1570.6	1582.7	1584.5	1581.0	1582.7	1587.9	1598.3	1598.3	1589.7
17.5°	1548.1	1539.4	1544.6	1553.3	1555.0	1555.0	1555.0	1561.9	1574.1	1572.3	1565.4
20°	1518.6	1506.5	1509.9	1518.6	1522.1	1522.1	1522.1	1534.2	1542.9	1542.9	1535.9
22.5°	1483.9	1475.3	1475.3	1483.9	1489.1	1487.4	1487.4	1497.8	1509.9	1508.2	1508.2
25°	1444.1	1437.1	1433.7	1444.1	1445.8	1447.5	1451.0	1461.4	1475.3	1475.3	1477.0
27.5°	1402.5	1395.5	1393.8	1402.5	1404.2	1405.9	1409.4	1421.5	1435.4	1437.1	1440.6
30°	1362.6	1352.2	1348.7	1355.6	1359.1	1360.8	1360.8	1379.9	1392.1	1397.3	1404.2
32.5°	1315.8	1305.4	1296.7	1308.8	1310.6	1314.0	1315.8	1334.8	1348.7	1357.4	1367.8
35°	1269.0	1251.6	1248.2	1256.8	1260.3	1262.0	1265.5	1286.3	1305.4	1312.3	1326.2
37.5°	1217.0	1204.8	1194.4	1203.1	1206.6	1208.3	1218.7	1237.8	1256.8	1267.2	1281.1
40°	1168.4	1152.8	1144.2	1149.4	1152.8	1154.6	1166.7	1187.5	1210.0	1222.2	1239.5
42.5°	1114.7	1093.9	1086.9	1092.1	1093.9	1099.1	1109.5	1137.2	1159.8	1177.1	1191.0
45°	1060.9	1045.3	1029.7	1034.9	1036.7	1040.1	1055.7	1085.2	1109.5	1130.3	1145.9
47.5°	1005.5	986.4	970.8	974.3	981.2	982.9	1000.3	1034.9	1057.5	1080.0	1100.8
50°	950.0	924.0	911.9	911.9	915.3	924.0	946.5	981.2	1005.5	1031.5	1054.0
52.5°	892.8	868.5	854.6	856.4	859.8	870.2	891.1	925.7	953.5	981.2	1008.9
55°	835.6	809.6	795.7	792.2	795.7	809.6	833.8	870.2	898.0	930.9	960.4
57.5°	778.4	747.2	735.0	729.8	733.3	750.6	774.9	813.0	847.7	878.9	913.6
60°	716.0	691.7	670.9	658.8	667.4	690.0	716.0	755.8	792.2	826.9	865.0
62.5°	662.2	631.0	608.5	596.3	605.0	624.1	660.5	698.6	738.5	778.4	816.5
65°	601.5	570.3	544.3	532.2	540.9	563.4	599.8	641.4	684.8	724.6	769.7
67.5°	542.6	509.7	478.5	466.3	476.7	501.0	540.9	587.7	634.5	676.1	724.6
70°	485.4	449.0	416.1	407.4	414.3	447.3	485.4	532.2	580.7	629.3	679.6
72.5°	433.4	388.3	353.6	343.2	351.9	388.3	431.7	480.2	532.2	584.2	638.0
75°	372.7	331.1	293.0	280.8	291.2	324.2	377.9	429.9	485.4	540.9	591.1
77.5°	324.2	275.6	235.8	216.7	234.0	275.6	327.6	383.1	440.3	497.5	554.7
80°	273.9	223.6	180.3	159.5	178.6	223.6	275.6	336.3	400.5	457.7	509.7
82.5°	228.8	175.1	130.0	107.5	128.3	178.6	235.8	296.4	358.8	416.1	476.7
85°	187.2	131.8	84.9	60.7	90.1	135.2	195.9	258.3	322.4	381.4	440.3
87.5°	152.6	98.8	52.0	26.0	55.5	105.7	163.0	225.4	289.5	348.4	403.9
90°	124.8	71.1	27.7	3.5	32.9	79.7	135.2	195.9	256.6	317.2	372.7
92.5°	102.3	53.7	15.6	1.7	20.8	64.1	116.1	173.4	232.3	291.2	345.0
95°	84.9	41.6	10.4	1.7	15.6	50.3	98.8	154.3	209.8	267.0	320.7
97.5°	72.8	34.7	8.7	1.7	12.1	43.3	84.9	137.0	190.7	244.4	296.4
100°	62.4	27.7	6.9	1.7	10.4	36.4	74.5	121.3	171.6	223.6	273.9
102.5°	53.7	22.5	5.2	1.7	8.7	31.2	65.9	109.2	154.3	204.6	253.1
105°	46.8	19.1	5.2	1.7	6.9	27.7	58.9	97.1	142.2	187.2	234.0
107.5°	39.9	15.6	3.5	1.7	5.2	22.5	52.0	88.4	128.3	171.6	215.0
110°	34.7	13.9	3.5	1.7	5.2	20.8	45.1	79.7	116.1	156.0	197.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	29.5	10.4	3.5	1.7	3.5	17.3	39.9	71.1	105.7	142.2	182.0
115°	26.0	8.7	1.7	1.7	3.5	15.6	36.4	64.1	95.3	130.0	166.4
117.5°	20.8	6.9	1.7	1.7	1.7	12.1	31.2	57.2	86.7	119.6	152.6
120°	17.3	6.9	1.7	1.7	1.7	10.4	27.7	50.3	78.0	107.5	138.7
122.5°	15.6	5.2	1.7	1.7	1.7	8.7	24.3	45.1	69.3	97.1	126.6
125°	13.9	5.2	1.7	1.7	1.7	6.9	20.8	39.9	62.4	86.7	114.4
127.5°	10.4	5.2	1.7	1.7	1.7	5.2	19.1	34.7	55.5	78.0	102.3
130°	8.7	3.5	1.7	1.7	1.7	5.2	15.6	31.2	48.5	69.3	91.9
132.5°	6.9	3.5	1.7	1.7	1.7	3.5	12.1	24.3	41.6	60.7	81.5
135°	6.9	3.5	1.7	1.7	1.7	3.5	8.7	20.8	34.7	52.0	69.3
137.5°	6.9	1.7	1.7	1.7	1.7	3.5	6.9	15.6	27.7	41.6	57.2
140°	5.2	1.7	1.7	1.7	1.7	1.7	5.2	12.1	22.5	34.7	48.5
142.5°	5.2	1.7	1.7	1.7	1.7	1.7	5.2	8.7	17.3	27.7	38.1
145°	3.5	1.7	1.7	1.7	1.7	1.7	3.5	6.9	13.9	20.8	31.2
147.5°	3.5	1.7	1.7	1.7	1.7	1.7	3.5	5.2	10.4	17.3	24.3
150°	3.5	1.7	1.7	1.7	1.7	1.7	3.5	5.2	6.9	12.1	19.1
152.5°	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5	5.2	8.7	12.1
155°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	5.2	6.9	8.7
157.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5	5.2	6.9
160°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5	5.2
162.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5
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-LD5-88SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4
2.5°	1648.6	1636.5	1640.0	1638.2	1641.7	1646.9	1646.9	1645.2	1645.2	1641.7	1638.2
5°	1645.2	1633.0	1638.2	1636.5	1640.0	1645.2	1645.2	1643.4	1643.4	1638.2	1636.5
7.5°	1634.8	1626.1	1629.5	1629.5	1633.0	1638.2	1638.2	1636.5	1636.5	1631.3	1629.5
10°	1624.3	1613.9	1619.1	1619.1	1622.6	1629.5	1629.5	1627.8	1627.8	1622.6	1620.9
12.5°	1607.0	1596.6	1605.3	1607.0	1610.5	1617.4	1615.7	1615.7	1615.7	1610.5	1608.7
15°	1586.2	1579.3	1587.9	1589.7	1594.9	1603.5	1603.5	1603.5	1603.5	1598.3	1596.6
17.5°	1563.7	1558.5	1567.1	1570.6	1577.5	1586.2	1586.2	1587.9	1589.7	1586.2	1584.5
20°	1537.7	1534.2	1542.9	1549.8	1560.2	1568.9	1572.3	1574.1	1577.5	1574.1	1572.3
22.5°	1508.2	1508.2	1520.3	1527.3	1539.4	1548.1	1553.3	1558.5	1561.9	1558.5	1556.7
25°	1475.3	1480.5	1492.6	1504.7	1518.6	1527.3	1532.5	1539.4	1542.9	1541.1	1539.4
27.5°	1444.1	1451.0	1466.6	1478.7	1490.9	1504.7	1509.9	1518.6	1522.1	1522.1	1520.3
30°	1407.7	1418.1	1435.4	1449.3	1464.9	1478.7	1485.7	1494.3	1499.5	1496.1	1497.8
32.5°	1373.0	1390.3	1404.2	1419.8	1437.1	1451.0	1459.7	1470.1	1475.3	1473.5	1475.3
35°	1334.8	1352.2	1371.2	1386.9	1407.7	1421.5	1433.7	1442.3	1449.3	1447.5	1447.5
37.5°	1293.2	1315.8	1334.8	1355.6	1374.7	1390.3	1402.5	1412.9	1419.8	1419.8	1419.8
40°	1253.4	1277.6	1296.7	1321.0	1345.2	1359.1	1373.0	1383.4	1390.3	1392.1	1393.8
42.5°	1210.0	1236.0	1258.6	1284.6	1308.8	1326.2	1341.8	1353.9	1360.8	1364.3	1362.6
45°	1170.2	1194.4	1220.4	1249.9	1272.4	1289.8	1308.8	1322.7	1329.6	1331.4	1333.1
47.5°	1125.1	1152.8	1182.3	1211.8	1234.3	1256.8	1274.2	1288.0	1295.0	1300.2	1300.2
50°	1081.7	1111.2	1144.2	1175.4	1199.6	1222.2	1239.5	1255.1	1263.8	1267.2	1269.0
52.5°	1041.9	1069.6	1104.3	1135.5	1159.8	1182.3	1204.8	1222.2	1230.8	1234.3	1234.3
55°	993.3	1028.0	1066.1	1095.6	1121.6	1147.6	1170.2	1187.5	1196.2	1201.4	1204.8
57.5°	948.3	984.7	1024.5	1055.7	1086.9	1111.2	1132.0	1154.6	1161.5	1168.4	1170.2
60°	904.9	941.3	979.5	1014.1	1045.3	1071.3	1095.6	1114.7	1126.8	1130.3	1133.8
62.5°	859.8	898.0	937.9	972.5	1005.5	1036.7	1059.2	1076.5	1090.4	1095.6	1099.1
65°	816.5	856.4	896.3	932.7	967.3	998.5	1021.1	1038.4	1052.3	1060.9	1062.7
67.5°	769.7	813.0	854.6	892.8	927.5	960.4	982.9	1000.3	1014.1	1024.5	1026.3
70°	726.4	771.4	813.0	854.6	889.3	922.3	946.5	963.9	979.5	986.4	989.9
72.5°	684.8	731.6	774.9	816.5	851.2	884.1	910.1	927.5	943.1	951.7	953.5
75°	644.9	691.7	738.5	778.4	814.8	847.7	873.7	892.8	906.7	915.3	918.8
77.5°	605.0	653.6	700.4	740.2	778.4	811.3	833.8	856.4	870.2	880.7	880.7
80°	565.1	615.4	664.0	703.8	742.0	771.4	797.4	820.0	833.8	844.2	844.2
82.5°	530.5	579.0	625.8	665.7	703.8	736.8	762.8	783.6	799.2	806.1	807.8
85°	490.6	544.3	587.7	631.0	667.4	698.6	724.6	747.2	761.0	768.0	771.4
87.5°	457.7	509.7	556.5	594.6	631.0	662.2	691.7	710.8	724.6	733.3	736.8
90°	426.5	476.7	523.5	561.7	599.8	629.3	657.0	676.1	691.7	698.6	702.1
92.5°	398.7	449.0	494.1	532.2	568.6	601.5	627.6	646.6	660.5	667.4	672.6
95°	372.7	421.3	464.6	506.2	540.9	570.3	598.1	617.1	632.8	638.0	643.2
97.5°	346.7	393.5	436.9	476.7	513.1	540.9	566.9	585.9	598.1	606.7	611.9
100°	324.2	369.2	410.9	449.0	483.7	509.7	537.4	554.7	566.9	573.8	580.7
102.5°	299.9	345.0	384.9	421.3	457.7	481.9	507.9	525.3	535.7	547.8	547.8
105°	279.1	320.7	360.6	395.3	426.5	455.9	478.5	495.8	507.9	516.6	516.6
107.5°	256.6	298.2	336.3	372.7	402.2	429.9	450.7	466.3	480.2	485.4	490.6
110°	239.2	275.6	313.8	348.4	376.2	402.2	423.0	440.3	452.5	457.7	461.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	218.4	256.6	291.2	324.2	351.9	376.2	397.0	410.9	423.0	429.9	431.7
115°	201.1	237.5	268.7	299.9	329.4	350.2	369.2	383.1	395.3	400.5	403.9
117.5°	185.5	218.4	249.6	275.6	303.4	325.9	345.0	357.1	367.5	374.4	377.9
120°	169.9	201.1	228.8	254.8	280.8	301.6	319.0	331.1	343.2	348.4	348.4
122.5°	154.3	183.8	209.8	234.0	258.3	277.4	296.4	306.8	317.2	322.4	322.4
125°	140.4	168.2	192.4	215.0	237.5	254.8	270.4	282.6	293.0	296.4	296.4
127.5°	126.6	152.6	175.1	195.9	215.0	232.3	247.9	260.0	268.7	272.2	272.2
130°	114.4	137.0	157.8	178.6	197.6	211.5	227.1	237.5	242.7	247.9	249.6
132.5°	102.3	123.1	142.2	159.5	178.6	192.4	204.6	215.0	220.2	225.4	227.1
135°	90.1	109.2	126.6	143.9	159.5	173.4	183.8	192.4	199.4	202.8	204.6
137.5°	76.3	97.1	112.7	126.6	143.9	154.3	166.4	171.6	178.6	182.0	182.0
140°	64.1	79.7	97.1	110.9	124.8	135.2	145.6	154.3	159.5	161.2	161.2
142.5°	52.0	65.9	79.7	97.1	109.2	117.9	128.3	135.2	138.7	140.4	142.2
145°	41.6	52.0	64.1	79.7	93.6	104.0	109.2	116.1	119.6	121.3	123.1
147.5°	31.2	41.6	52.0	62.4	76.3	86.7	91.9	98.8	102.3	104.0	104.0
150°	24.3	31.2	38.1	48.5	58.9	71.1	78.0	83.2	84.9	86.7	86.7
152.5°	17.3	24.3	29.5	36.4	43.3	53.7	64.1	67.6	69.3	71.1	71.1
155°	12.1	17.3	20.8	26.0	31.2	39.9	48.5	53.7	55.5	57.2	57.2
157.5°	8.7	12.1	13.9	19.1	22.5	26.0	32.9	41.6	43.3	43.3	43.3
160°	5.2	6.9	8.7	12.1	13.9	17.3	20.8	26.0	31.2	31.2	31.2
162.5°	3.5	5.2	5.2	6.9	6.9	10.4	12.1	13.9	19.1	20.8	20.8
165°	1.7	3.5	3.5	3.5	3.5	3.5	5.2	5.2	8.7	10.4	10.4
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-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4
2.5°	1640.0	1643.4	1641.7	1641.7	1641.7	1645.2	1641.7	1626.1	1629.5	1633.0	1636.5
5°	1638.2	1640.0	1640.0	1638.2	1638.2	1641.7	1638.2	1622.6	1626.1	1629.5	1631.3
7.5°	1631.3	1633.0	1633.0	1633.0	1631.3	1634.8	1629.5	1615.7	1615.7	1619.1	1620.9
10°	1622.6	1626.1	1624.3	1622.6	1622.6	1622.6	1619.1	1603.5	1603.5	1605.3	1607.0
12.5°	1612.2	1612.2	1612.2	1610.5	1608.7	1608.7	1605.3	1589.7	1587.9	1591.4	1589.7
15°	1598.3	1601.8	1598.3	1596.6	1593.1	1593.1	1587.9	1572.3	1568.9	1570.6	1568.9
17.5°	1586.2	1587.9	1584.5	1581.0	1577.5	1575.8	1570.6	1553.3	1548.1	1549.8	1546.3
20°	1574.1	1574.1	1570.6	1567.1	1561.9	1556.7	1549.8	1532.5	1523.8	1523.8	1516.9
22.5°	1558.5	1558.5	1555.0	1549.8	1544.6	1537.7	1530.7	1513.4	1499.5	1496.1	1490.9
25°	1541.1	1539.4	1537.7	1532.5	1522.1	1515.1	1508.2	1489.1	1473.5	1466.6	1457.9
27.5°	1520.3	1520.3	1515.1	1509.9	1499.5	1490.9	1482.2	1464.9	1444.1	1435.4	1423.3
30°	1497.8	1497.8	1492.6	1485.7	1475.3	1464.9	1454.5	1433.7	1412.9	1400.7	1386.9
32.5°	1475.3	1473.5	1468.3	1461.4	1451.0	1435.4	1426.7	1405.9	1381.7	1367.8	1348.7
35°	1447.5	1445.8	1440.6	1431.9	1418.1	1405.9	1392.1	1373.0	1345.2	1327.9	1307.1
37.5°	1419.8	1418.1	1414.6	1402.5	1388.6	1374.7	1357.4	1338.3	1312.3	1289.8	1269.0
40°	1392.1	1390.3	1383.4	1374.7	1357.4	1340.0	1322.7	1303.6	1275.9	1249.9	1227.4
42.5°	1362.6	1360.8	1352.2	1341.8	1322.7	1305.4	1284.6	1263.8	1236.0	1204.8	1182.3
45°	1333.1	1329.6	1321.0	1308.8	1288.0	1269.0	1248.2	1223.9	1196.2	1166.7	1137.2
47.5°	1301.9	1296.7	1288.0	1270.7	1253.4	1232.6	1208.3	1182.3	1154.6	1121.6	1090.4
50°	1267.2	1263.8	1253.4	1237.8	1217.0	1196.2	1168.4	1142.4	1109.5	1078.3	1040.1
52.5°	1234.3	1227.4	1218.7	1201.4	1180.6	1158.0	1128.6	1097.3	1064.4	1034.9	995.1
55°	1199.6	1196.2	1184.0	1170.2	1144.2	1118.1	1090.4	1057.5	1021.1	986.4	948.3
57.5°	1166.7	1159.8	1149.4	1130.3	1107.7	1081.7	1052.3	1017.6	977.7	941.3	899.7
60°	1133.8	1123.3	1111.2	1093.9	1069.6	1041.9	1010.7	974.3	934.4	894.5	851.2
62.5°	1097.3	1088.7	1074.8	1057.5	1033.2	1003.7	970.8	932.7	894.5	852.9	806.1
65°	1060.9	1052.3	1038.4	1021.1	996.8	963.9	929.2	891.1	847.7	807.8	757.6
67.5°	1024.5	1015.9	1000.3	981.2	956.9	925.7	889.3	849.4	806.1	762.8	710.8
70°	988.1	977.7	963.9	943.1	918.8	885.9	849.4	807.8	764.5	717.7	665.7
72.5°	951.7	943.1	925.7	906.7	880.7	847.7	811.3	769.7	724.6	676.1	624.1
75°	915.3	904.9	892.8	870.2	842.5	811.3	773.2	731.6	683.0	636.2	582.5
77.5°	878.9	870.2	854.6	832.1	806.1	773.2	735.0	693.4	644.9	596.3	539.1
80°	842.5	832.1	820.0	799.2	769.7	736.8	696.9	655.3	606.7	556.5	499.3
82.5°	806.1	795.7	781.8	761.0	733.3	700.4	662.2	617.1	568.6	516.6	462.9
85°	769.7	761.0	745.4	724.6	695.2	662.2	624.1	584.2	532.2	480.2	426.5
87.5°	733.3	724.6	709.0	688.2	660.5	627.6	589.4	547.8	497.5	449.0	390.1
90°	698.6	691.7	676.1	655.3	627.6	594.6	559.9	514.9	466.3	417.8	362.3
92.5°	667.4	660.5	646.6	625.8	601.5	565.1	530.5	487.1	438.6	388.3	334.6
95°	639.7	631.0	617.1	598.1	568.6	537.4	502.7	459.4	412.6	362.3	310.3
97.5°	608.5	599.8	585.9	565.1	540.9	507.9	473.3	431.7	384.9	338.0	286.0
100°	577.3	568.6	553.0	535.7	511.4	478.5	445.5	403.9	360.6	315.5	265.2
102.5°	546.1	537.4	523.5	506.2	481.9	452.5	419.5	379.7	336.3	291.2	244.4
105°	516.6	507.9	494.1	476.7	454.2	424.7	390.1	355.4	313.8	270.4	225.4
107.5°	487.1	478.5	466.3	449.0	426.5	398.7	365.8	329.4	291.2	249.6	206.3
110°	457.7	450.7	436.9	421.3	398.7	371.0	341.5	306.8	268.7	230.6	189.0





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	429.9	423.0	409.1	391.8	372.7	346.7	317.2	284.3	247.9	211.5	171.6
115°	402.2	393.5	381.4	365.8	346.7	322.4	294.7	265.2	228.8	194.2	157.8
117.5°	374.4	367.5	355.4	339.8	322.4	298.2	272.2	244.4	209.8	176.8	143.9
120°	346.7	341.5	329.4	315.5	298.2	275.6	251.4	223.6	192.4	161.2	130.0
122.5°	320.7	315.5	303.4	291.2	273.9	253.1	230.6	204.6	176.8	147.4	119.6
125°	296.4	289.5	279.1	267.0	251.4	232.3	209.8	185.5	159.5	133.5	107.5
127.5°	270.4	265.2	258.3	244.4	228.8	211.5	190.7	169.9	145.6	121.3	97.1
130°	249.6	242.7	234.0	223.6	209.8	192.4	173.4	152.6	131.8	109.2	84.9
132.5°	225.4	218.4	211.5	201.1	189.0	173.4	156.0	137.0	117.9	97.1	76.3
135°	202.8	197.6	190.7	180.3	168.2	156.0	138.7	121.3	104.0	84.9	67.6
137.5°	182.0	176.8	169.9	163.0	150.8	138.7	123.1	107.5	91.9	74.5	58.9
140°	161.2	157.8	150.8	143.9	133.5	121.3	107.5	93.6	79.7	64.1	50.3
142.5°	140.4	137.0	131.8	124.8	116.1	105.7	93.6	81.5	67.6	55.5	43.3
145°	121.3	119.6	114.4	107.5	100.5	90.1	79.7	69.3	57.2	46.8	34.7
147.5°	102.3	100.5	97.1	91.9	84.9	76.3	67.6	57.2	48.5	38.1	27.7
150°	84.9	83.2	81.5	74.5	71.1	62.4	55.5	46.8	39.9	29.5	22.5
152.5°	69.3	69.3	65.9	60.7	57.2	50.3	45.1	38.1	31.2	24.3	17.3
155°	55.5	53.7	52.0	48.5	45.1	39.9	34.7	29.5	24.3	17.3	12.1
157.5°	43.3	41.6	39.9	36.4	32.9	31.2	26.0	20.8	15.6	12.1	8.7
160°	31.2	29.5	27.7	26.0	24.3	20.8	17.3	13.9	10.4	6.9	5.2
162.5°	20.8	19.1	19.1	17.3	15.6	12.1	10.4	8.7	6.9	5.2	3.5
165°	10.4	10.4	8.7	8.7	6.9	5.2	5.2	5.2	3.5	3.5	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-LD5-88SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4
2.5°	1634.8	1634.8	1641.7	1640.0	1634.8	1645.2	1657.3
5°	1629.5	1629.5	1634.8	1634.8	1629.5	1640.0	1650.4
7.5°	1620.9	1619.1	1624.3	1624.3	1617.4	1626.1	1638.2
10°	1605.3	1603.5	1608.7	1608.7	1601.8	1610.5	1620.9
12.5°	1587.9	1584.5	1589.7	1587.9	1581.0	1589.7	1600.1
15°	1565.4	1563.7	1567.1	1563.7	1556.7	1565.4	1575.8
17.5°	1542.9	1537.7	1539.4	1539.4	1527.3	1535.9	1544.6
20°	1513.4	1506.5	1508.2	1506.5	1497.8	1503.0	1513.4
22.5°	1483.9	1473.5	1473.5	1471.8	1461.4	1468.3	1477.0
25°	1447.5	1435.4	1435.4	1433.7	1421.5	1426.7	1435.4
27.5°	1411.1	1399.0	1393.8	1392.1	1379.9	1379.9	1392.1
30°	1373.0	1355.6	1352.2	1347.0	1334.8	1334.8	1345.2
32.5°	1336.6	1312.3	1305.4	1298.4	1286.3	1284.6	1296.7
35°	1288.0	1269.0	1256.8	1249.9	1236.0	1232.6	1243.0
37.5°	1248.2	1223.9	1206.6	1197.9	1184.0	1178.8	1192.7
40°	1204.8	1178.8	1156.3	1151.1	1130.3	1123.3	1135.5
42.5°	1156.3	1128.6	1106.0	1095.6	1080.0	1073.1	1074.8
45°	1107.7	1078.3	1054.0	1040.1	1024.5	1012.4	1019.3
47.5°	1057.5	1031.5	1002.0	981.2	962.1	953.5	956.9
50°	1007.2	976.0	948.3	925.7	903.2	892.8	899.7
52.5°	956.9	924.0	892.8	868.5	842.5	832.1	833.8
55°	908.4	873.7	837.3	811.3	787.0	771.4	768.0
57.5°	859.8	821.7	783.6	754.1	722.9	709.0	703.8
60°	807.8	768.0	728.1	693.4	660.5	644.9	638.0
62.5°	759.3	716.0	670.9	634.5	601.5	580.7	575.5
65°	712.5	662.2	617.1	575.5	539.1	516.6	509.7
67.5°	662.2	610.2	561.7	516.6	481.9	452.5	449.0
70°	615.4	559.9	506.2	459.4	421.3	391.8	377.9
72.5°	568.6	511.4	455.9	405.7	357.1	329.4	319.0
75°	523.5	464.6	405.7	353.6	299.9	267.0	256.6
77.5°	481.9	421.3	358.8	301.6	251.4	209.8	195.9
80°	442.1	379.7	313.8	254.8	201.1	156.0	140.4
82.5°	400.5	341.5	273.9	211.5	156.0	109.2	90.1
85°	364.0	305.1	237.5	175.1	119.6	69.3	48.5
87.5°	334.6	270.4	209.8	147.4	90.1	39.9	13.9
90°	305.1	242.7	182.0	121.3	67.6	22.5	1.7
92.5°	279.1	220.2	159.5	104.0	52.0	15.6	1.7
95°	254.8	197.6	140.4	86.7	41.6	10.4	1.7
97.5°	232.3	178.6	124.8	74.5	34.7	8.7	1.7
100°	213.2	161.2	110.9	65.9	29.5	6.9	1.7
102.5°	194.2	145.6	98.8	57.2	26.0	5.2	1.7
105°	178.6	131.8	88.4	52.0	22.5	5.2	1.7
107.5°	163.0	119.6	79.7	45.1	19.1	3.5	1.7
110°	147.4	109.2	71.1	39.9	17.3	3.5	1.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	135.2	98.8	64.1	36.4	13.9	3.5	1.7
115°	123.1	88.4	57.2	31.2	12.1	1.7	1.7
117.5°	110.9	79.7	50.3	27.7	10.4	1.7	1.7
120°	100.5	71.1	45.1	24.3	8.7	1.7	1.7
122.5°	90.1	64.1	39.9	20.8	6.9	1.7	1.7
125°	81.5	57.2	34.7	17.3	5.2	1.7	1.7
127.5°	72.8	50.3	31.2	15.6	5.2	1.7	1.7
130°	64.1	45.1	26.0	12.1	3.5	1.7	1.7
132.5°	57.2	38.1	22.5	10.4	3.5	1.7	1.7
135°	50.3	32.9	19.1	6.9	3.5	1.7	1.7
137.5°	43.3	27.7	15.6	5.2	1.7	1.7	1.7
140°	36.4	24.3	12.1	5.2	1.7	1.7	1.7
142.5°	31.2	19.1	8.7	3.5	1.7	1.7	1.7
145°	24.3	15.6	6.9	3.5	1.7	1.7	1.7
147.5°	19.1	12.1	5.2	3.5	1.7	1.7	1.7
150°	13.9	8.7	5.2	1.7	1.7	1.7	1.7
152.5°	10.4	6.9	3.5	1.7	1.7	1.7	1.7
155°	6.9	5.2	3.5	1.7	1.7	1.7	1.7
157.5°	5.2	3.5	1.7	1.7	1.7	1.7	1.7
160°	3.5	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)