

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1213388

Luminaire Tested: 4SNLED-LD5-28SL-RW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-28SL-RW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

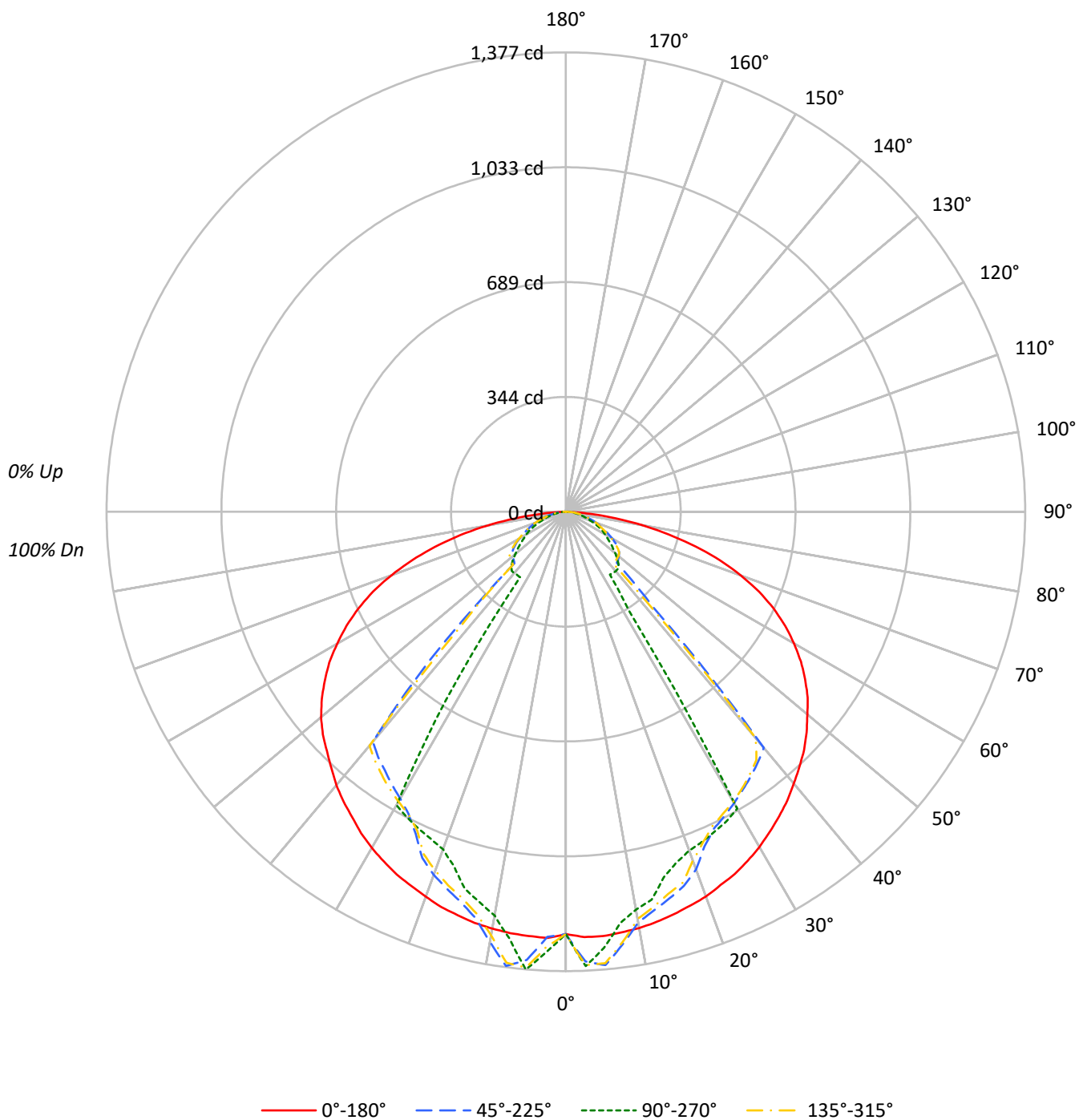
Lumens per Lamp: N/A
Luminaire Lumens: 2535.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 21
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	108	104	101	98	100	97	94		96	94	92		92
2	102	94	88	83	99	93	87	82	89	85	81		86	82	79		83
3	94	84	77	72	91	83	76	71	80	74	70		77	73	69		75
4	87	76	68	62	85	75	67	62	72	66	61		70	65	60		68
5	81	69	61	55	79	68	60	55	66	59	54		64	58	53		62
6	75	63	55	49	73	62	54	49	60	53	48		59	53	48		57
7	70	58	50	44	68	57	49	44	55	48	43		54	48	43		53
8	66	53	45	40	64	52	45	40	51	44	39		50	44	39		49
9	62	49	41	36	60	48	41	36	47	41	36		46	40	36		45
10	58	46	38	33	57	45	38	33	44	38	33		43	37	33		42

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10230	10230	10230	10230
5°	10330	10307	10326	10817
10°	10340	9319	10354	9462
15°	10363	8622	10387	8895
20°	10438	8177	10438	8147
25°	10528	8021	10544	7946
30°	10635	7880	10662	7786
35°	10759	1794	10781	1872
40°	10931	1866	10997	1927
45°	11194	1856	11232	1924
50°	11455	1678	11609	1723
55°	11808	1490	11901	1512
60°	12106	1324	12132	1341
65°	12320	1156	12290	1137
70°	12144	932	12107	898
75°	11274	717	11355	687
80°	9151	509	9519	466
85°	4953	305	5233	233

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 12405 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.6	4.9
10°-20°	342.5	13.5
20°-30°	507.2	20.0
30°-40°	511.1	20.2
40°-50°	399.2	15.7
50°-60°	308.4	12.2
60°-70°	207.0	8.2
70°-80°	105.6	4.2
80°-90°	29.4	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	974.2	38.4
0°-40°	1485.3	58.6
0°-60°	2193.0	86.5
0°-90°	2535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2535.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1266	1266	1266	1266	1266	
5°	1277	1312	1276	1377	1277	121
15°	1249	1134	1252	1170	1249	353
25°	1198	1057	1200	1047	1198	553
35°	1114	230	1117	240	1114	698
45°	1010	223	1014	232	1010	779
55°	876	162	882	165	876	782
65°	688	109	686	107	688	676
75°	403	55	406	53	403	422
85°	72	17	77	13	72	100
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9
2.5°	1275.8	1280.4	1283.9	1286.2	1287.4	1287.4	1288.0	1288.5	1296.1	1299.6	1301.9
5°	1276.9	1281.6	1288.5	1297.8	1305.9	1312.9	1318.7	1326.8	1335.0	1343.7	1346.6
7.5°	1271.7	1277.5	1291.4	1308.3	1323.9	1335.0	1342.5	1347.7	1351.8	1352.4	1355.3
10°	1267.1	1277.5	1296.7	1318.7	1338.4	1351.8	1351.8	1348.9	1352.9	1337.3	1321.6
12.5°	1259.0	1270.6	1296.7	1325.7	1344.2	1349.5	1347.1	1335.5	1311.7	1292.6	1283.9
15°	1249.1	1264.8	1297.2	1329.7	1345.4	1347.1	1325.1	1295.5	1277.5	1265.9	1251.4
17.5°	1238.1	1259.0	1297.8	1330.3	1336.1	1328.0	1286.2	1267.7	1249.1	1221.8	1202.1
20°	1227.6	1247.9	1293.2	1322.2	1325.7	1289.1	1256.6	1236.9	1205.6	1181.8	1173.1
22.5°	1211.4	1235.2	1289.1	1311.2	1297.8	1255.5	1224.1	1192.8	1164.4	1157.4	1147.0
25°	1198.0	1223.0	1279.8	1297.8	1262.4	1224.7	1188.2	1151.6	1138.3	1128.4	1119.1
27.5°	1180.0	1210.8	1267.7	1273.5	1224.7	1191.7	1138.3	1122.0	1109.9	1098.8	1094.8
30°	1160.3	1198.0	1250.8	1239.8	1193.4	1144.7	1105.2	1090.1	1081.4	1069.8	1065.2
32.5°	1137.7	1178.9	1232.3	1200.9	1159.7	1098.8	1073.3	1061.7	1050.1	1041.4	1012.4
35°	1114.5	1162.1	1210.2	1163.8	1119.1	1064.0	1041.4	1030.9	1019.9	988.0	957.8
37.5°	1090.7	1143.5	1183.5	1123.8	1065.2	1028.0	1008.9	997.3	972.4	931.7	916.7
40°	1063.4	1120.9	1149.3	1082.6	1018.2	991.5	973.5	961.9	905.6	887.6	883.0
42.5°	1036.2	1098.8	1107.5	1042.6	979.3	952.6	937.5	899.3	861.0	851.7	853.4
45°	1010.1	1075.0	1061.7	985.7	938.7	916.7	891.1	838.3	818.0	822.7	823.8
47.5°	978.7	1046.6	1013.5	928.8	896.9	874.9	818.0	786.1	783.2	789.6	793.1
50°	945.1	1014.7	962.5	877.2	851.7	825.6	761.2	744.9	748.4	754.8	758.9
52.5°	913.8	978.7	909.7	829.1	807.0	747.2	703.7	706.6	712.4	720.0	722.3
55°	875.5	935.2	853.4	780.3	759.4	681.1	661.4	668.3	674.1	680.5	685.2
57.5°	835.4	885.3	786.7	725.8	692.1	622.5	624.3	628.9	633.0	640.5	264.6
60°	789.6	828.5	713.6	675.3	608.6	576.1	577.8	586.0	590.0	329.5	182.2
62.5°	742.0	762.3	647.5	617.9	532.0	529.7	537.8	541.3	368.4	174.0	170.6
65°	687.5	683.4	582.5	535.5	479.8	482.1	490.8	473.4	163.0	163.0	161.9
67.5°	627.2	602.8	519.2	443.2	429.3	434.5	443.8	154.9	150.8	152.0	147.9
70°	558.1	523.9	453.7	375.4	380.0	385.2	149.7	140.4	138.7	135.8	127.6
72.5°	485.0	438.0	371.3	326.1	329.0	206.5	131.1	126.5	120.7	114.9	106.2
75°	403.2	342.3	272.7	272.7	276.7	117.8	114.3	106.7	100.4	92.8	87.6
77.5°	316.2	263.4	211.8	219.9	107.3	98.6	92.2	84.1	78.9	74.3	71.4
80°	231.5	183.9	159.5	142.7	83.5	74.8	68.5	63.8	61.5	58.6	55.1
82.5°	152.0	110.8	110.8	67.3	58.6	51.6	49.9	46.4	44.1	42.4	40.6
85°	72.5	64.4	48.7	41.2	36.6	33.1	31.9	30.2	30.2	29.6	29.0
87.5°	26.7	29.0	21.5	20.9	19.7	19.1	19.7	19.7	20.3	19.7	19.1
90°	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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9
2.5°	1307.7	1312.3	1315.8	1321.6	1329.2	1335.5	1341.3	1349.5	1362.2	1365.7	1368.6
5°	1346.6	1348.3	1352.4	1357.0	1358.2	1361.1	1360.5	1364.0	1365.7	1369.8	1361.1
7.5°	1348.9	1339.6	1328.6	1318.7	1311.7	1305.4	1301.3	1307.7	1311.2	1314.1	1305.4
10°	1300.1	1289.1	1282.7	1276.9	1270.0	1260.1	1246.8	1249.7	1248.5	1248.5	1245.6
12.5°	1269.4	1253.7	1237.5	1223.0	1216.6	1216.0	1216.6	1223.0	1223.0	1222.4	1218.9
15°	1221.2	1206.2	1198.0	1194.6	1194.6	1192.8	1192.8	1199.8	1198.0	1198.0	1196.3
17.5°	1189.3	1178.9	1173.1	1169.0	1167.3	1170.2	1173.7	1176.6	1177.1	1174.8	1165.5
20°	1163.2	1153.4	1146.4	1147.6	1147.0	1148.7	1150.5	1140.6	1128.4	1112.2	1104.6
22.5°	1136.0	1128.4	1123.2	1123.2	1116.2	1105.2	1089.0	1085.5	1083.7	1076.2	1069.8
25°	1109.9	1101.1	1093.6	1070.4	1055.9	1057.6	1054.7	1048.9	1048.4	1047.8	1050.1
27.5°	1083.7	1061.1	1032.1	1028.6	1022.8	1022.2	1025.7	1028.6	1028.6	1030.9	1033.8
30°	1029.8	1003.7	998.5	992.1	994.4	1002.5	1004.3	1008.3	1009.5	1013.5	1015.9
32.5°	980.5	968.9	964.2	967.1	974.7	981.6	985.7	987.4	990.3	993.8	996.7
35°	940.4	937.0	941.0	947.4	954.9	960.7	964.2	967.7	970.6	973.5	975.8
37.5°	910.9	913.2	919.0	927.1	934.6	939.3	942.2	946.2	950.3	953.8	939.9
40°	883.0	888.8	895.2	903.9	910.3	914.9	917.8	923.0	888.2	402.1	220.5
42.5°	858.6	865.0	869.7	876.6	883.6	887.1	861.5	384.6	217.6	216.4	219.3
45°	829.1	834.3	841.8	847.0	853.4	560.4	214.1	216.4	212.9	215.2	216.4
47.5°	798.9	807.0	811.1	773.9	230.3	212.9	210.6	212.9	210.6	213.5	211.8
50°	764.7	774.5	551.2	208.3	206.5	205.4	207.7	206.5	208.3	210.6	206.0
52.5°	729.8	451.9	201.9	200.7	201.9	200.7	204.8	201.9	202.5	200.2	194.4
55°	247.1	195.5	193.8	193.2	196.7	196.7	196.7	192.0	189.1	183.3	179.3
57.5°	189.1	189.1	188.6	189.1	188.0	186.8	181.6	177.5	173.5	165.3	163.0
60°	179.3	179.3	179.3	179.3	174.0	171.7	163.6	160.1	153.2	149.1	146.8
62.5°	171.1	170.0	164.8	163.0	157.2	150.8	146.2	142.7	135.8	133.4	131.7
65°	159.5	155.5	149.1	142.1	139.2	132.3	130.0	124.7	121.3	119.5	118.4
67.5°	140.4	134.6	129.4	124.7	119.5	117.2	114.3	110.2	107.9	106.7	105.6
70°	120.1	116.0	110.8	107.9	104.4	102.7	98.6	97.5	95.7	94.0	92.2
72.5°	100.4	98.0	95.7	91.7	90.5	89.3	85.3	83.0	80.6	78.3	77.2
75°	84.1	82.4	81.2	77.7	76.0	72.5	69.6	67.9	66.1	64.4	63.2
77.5°	69.0	67.9	64.4	62.1	60.9	58.0	56.9	57.4	56.3	54.0	52.8
80°	54.0	52.8	49.9	49.9	48.7	47.6	46.4	45.3	44.1	42.4	41.2
82.5°	41.2	40.0	38.9	37.7	36.6	36.0	35.4	34.2	33.1	31.9	31.3
85°	29.0	28.4	27.8	27.3	26.7	26.1	25.5	24.4	23.2	22.6	22.0
87.5°	19.7	19.1	18.6	18.0	17.4	16.8	16.2	15.7	14.5	13.9	13.3
90°	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°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9
2.5°	1368.6	1371.5	1368.6	1362.2	1358.2	1356.4	1359.9	1359.9	1362.2	1365.1	1365.7
5°	1347.1	1340.2	1332.1	1323.9	1319.9	1317.5	1311.2	1312.3	1314.1	1315.2	1316.4
7.5°	1293.8	1284.5	1273.5	1263.0	1259.0	1255.5	1247.9	1247.9	1247.9	1248.5	1252.0
10°	1239.2	1235.2	1230.5	1223.6	1218.3	1216.6	1210.2	1212.0	1210.8	1212.5	1216.6
12.5°	1213.7	1209.1	1205.0	1198.0	1192.2	1189.9	1187.0	1188.8	1188.2	1191.1	1194.6
15°	1190.5	1188.2	1183.5	1178.3	1173.1	1168.4	1158.0	1154.5	1152.2	1149.3	1153.4
17.5°	1152.2	1136.0	1124.9	1116.8	1111.0	1106.9	1104.0	1104.0	1105.8	1107.5	1111.0
20°	1100.0	1095.3	1090.1	1081.4	1075.6	1073.3	1071.6	1071.6	1074.5	1076.8	1083.2
22.5°	1064.0	1063.4	1061.7	1057.6	1054.7	1054.7	1055.3	1056.5	1060.5	1064.0	1070.4
25°	1047.2	1049.5	1048.4	1046.0	1044.3	1044.9	1043.7	1044.9	1048.9	1052.4	1057.6
27.5°	1033.8	1037.3	1036.2	1032.7	1029.8	1030.9	1032.7	1031.5	1035.0	1039.1	1043.1
30°	1015.9	1016.4	1018.8	1014.7	1013.5	1015.3	1015.9	1017.0	1020.5	1023.4	1026.9
32.5°	995.6	1000.2	999.6	995.6	995.6	997.3	997.9	959.0	886.5	763.5	729.8
35°	975.8	981.1	972.4	819.8	567.4	302.8	233.8	225.7	227.4	228.6	229.7
37.5°	721.7	342.3	218.1	219.9	221.6	223.4	225.1	226.8	228.6	230.3	230.9
40°	217.0	216.4	218.1	220.5	222.2	223.4	225.7	227.4	229.2	230.9	231.5
42.5°	214.7	215.8	217.6	219.9	222.2	224.5	226.3	228.6	229.7	230.9	231.5
45°	213.5	215.8	218.1	219.9	221.6	222.8	223.9	224.5	223.9	223.9	225.1
47.5°	211.8	214.1	214.7	214.1	214.7	214.1	214.1	214.1	212.3	211.8	211.8
50°	205.4	205.4	204.2	201.9	201.3	200.7	199.6	199.0	196.7	196.1	196.1
52.5°	192.0	191.5	189.7	186.8	185.7	184.5	183.9	183.3	181.0	179.9	180.4
55°	176.4	175.2	173.5	170.0	169.4	168.2	167.7	167.1	164.8	165.9	164.2
57.5°	161.9	159.5	157.2	156.6	154.3	153.7	153.2	152.6	150.8	151.4	150.3
60°	144.5	143.9	142.7	140.4	140.4	139.8	139.8	138.7	137.5	136.9	136.9
62.5°	131.7	130.0	128.8	128.8	127.1	127.1	127.1	125.9	124.7	125.3	124.7
65°	117.8	117.2	116.6	115.5	115.5	114.9	114.9	113.7	112.0	112.6	111.4
67.5°	106.2	105.0	103.8	103.3	100.9	99.8	99.2	98.6	96.3	96.9	95.7
70°	91.7	89.9	88.8	87.6	85.9	84.7	84.7	83.5	81.8	82.4	81.2
72.5°	76.6	75.4	74.3	73.7	71.9	71.4	70.8	70.2	68.5	69.0	68.5
75°	63.8	63.8	63.2	62.7	60.9	59.2	58.0	57.4	56.3	56.9	55.7
77.5°	52.8	51.6	50.5	50.5	48.7	47.6	46.4	46.4	46.4	45.8	45.3
80°	41.2	40.0	40.0	39.5	38.3	37.1	36.6	36.6	36.0	36.0	35.4
82.5°	31.3	30.2	29.6	29.6	28.4	27.8	27.3	26.7	26.7	26.7	26.1
85°	22.0	20.9	20.3	20.3	19.1	18.6	18.6	18.0	18.0	17.4	17.4
87.5°	13.3	12.8	12.2	12.2	11.0	10.4	10.4	10.4	9.9	9.9	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213388

CATALOG NUMBER: 4SNLED-LD5-28SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9
2.5°	1365.7	1365.7	1361.6	1362.8	1361.1	1363.4	1360.5	1360.5	1364.0	1364.0	1366.3
5°	1317.0	1314.1	1313.5	1312.3	1306.5	1308.8	1305.9	1303.0	1307.1	1307.1	1312.3
7.5°	1250.2	1245.0	1247.3	1243.9	1240.4	1235.2	1236.9	1234.6	1237.5	1241.5	1246.8
10°	1216.0	1211.4	1214.3	1210.8	1212.5	1205.0	1205.6	1206.2	1209.1	1210.2	1214.9
12.5°	1194.0	1192.8	1191.7	1190.5	1191.7	1187.6	1185.3	1185.9	1187.0	1187.6	1191.1
15°	1147.6	1140.0	1142.3	1134.2	1134.8	1135.4	1130.7	1135.4	1134.8	1142.3	1149.3
17.5°	1109.9	1109.9	1105.8	1102.3	1100.0	1099.4	1095.9	1098.2	1095.9	1100.6	1102.3
20°	1083.7	1083.2	1082.6	1080.8	1075.0	1075.6	1077.4	1072.1	1071.6	1071.0	1074.5
22.5°	1071.6	1072.1	1069.8	1069.8	1064.6	1065.8	1066.3	1060.5	1061.1	1059.4	1061.1
25°	1058.8	1060.0	1057.1	1057.1	1055.9	1055.3	1052.4	1053.6	1050.1	1047.2	1050.1
27.5°	1043.7	1046.0	1043.7	1044.9	1042.6	1041.4	1039.7	1038.5	1035.0	1034.4	1036.2
30°	1029.8	1030.9	1030.4	1027.5	1026.9	1023.4	1025.1	1021.7	1018.2	1018.8	1019.9
32.5°	527.9	504.2	388.7	351.0	347.5	360.3	427.0	519.8	673.6	822.7	930.0
35°	230.3	230.3	230.3	229.7	229.7	229.2	228.6	228.0	227.4	226.8	226.3
37.5°	231.5	231.5	231.5	231.5	230.9	230.3	230.3	229.2	228.6	228.0	227.4
40°	232.1	232.6	232.6	232.6	232.1	232.1	231.5	230.3	229.7	228.6	227.4
42.5°	231.5	232.1	232.1	231.5	231.5	230.9	230.9	230.3	229.7	229.2	228.6
45°	223.9	224.5	223.4	223.4	222.8	222.8	222.8	222.8	222.8	223.4	223.4
47.5°	210.6	210.6	210.0	209.4	209.4	208.9	209.4	208.9	210.0	210.6	211.8
50°	194.9	194.9	193.8	193.2	193.2	193.2	193.2	193.8	194.4	195.5	196.7
52.5°	178.7	178.7	178.1	177.5	176.9	176.9	178.7	178.1	178.7	179.3	181.0
55°	163.0	163.6	162.4	162.4	161.9	161.9	161.9	162.4	163.0	163.6	165.3
57.5°	149.7	149.7	148.5	148.5	148.5	147.9	149.7	148.5	149.1	149.7	150.8
60°	136.3	135.8	135.8	135.2	135.2	135.2	136.3	135.8	135.8	136.3	137.5
62.5°	124.2	124.2	123.6	123.6	123.0	123.0	124.2	123.6	123.6	124.2	124.7
65°	110.2	110.2	109.7	109.1	110.8	109.1	110.8	109.7	110.8	111.4	112.6
67.5°	94.6	94.6	94.6	94.0	94.0	95.1	95.7	94.6	95.1	96.3	96.9
70°	80.6	80.6	80.1	80.1	80.1	81.2	81.8	80.6	81.2	81.8	83.0
72.5°	68.5	67.3	67.3	66.7	67.9	67.9	68.5	67.9	68.5	68.5	69.6
75°	56.3	55.1	55.1	55.1	56.3	55.7	56.3	55.7	56.3	56.3	56.9
77.5°	45.3	44.7	44.1	44.1	45.3	45.3	45.3	44.7	45.3	45.8	46.4
80°	35.4	34.8	34.2	34.2	35.4	35.4	35.4	36.0	35.4	36.0	36.6
82.5°	26.1	25.5	24.9	26.1	26.1	26.1	26.1	26.7	26.1	26.7	27.3
85°	17.4	16.8	16.2	17.4	17.4	17.4	17.4	18.0	17.4	18.0	18.6
87.5°	9.3	8.7	8.7	9.3	9.3	9.3	9.9	9.9	9.9	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213388

CATALOG NUMBER: 4SNLED-LD5-28SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9
2.5°	1369.8	1371.5	1370.9	1367.4	1364.0	1359.9	1357.0	1357.6	1363.4	1365.1	1359.9
5°	1312.3	1323.3	1323.3	1330.9	1326.8	1323.3	1325.7	1338.4	1344.8	1354.7	1358.2
7.5°	1253.2	1258.4	1257.8	1265.3	1264.2	1264.2	1265.9	1282.7	1290.9	1299.0	1301.3
10°	1220.1	1225.3	1224.7	1225.3	1223.6	1219.5	1219.5	1227.0	1234.0	1238.1	1239.2
12.5°	1196.3	1199.2	1198.6	1198.6	1197.5	1194.0	1193.4	1199.8	1207.3	1212.5	1213.1
15°	1160.9	1169.0	1170.8	1178.3	1176.6	1171.9	1173.1	1178.3	1183.0	1187.6	1185.9
17.5°	1108.1	1112.2	1112.8	1115.7	1114.5	1114.5	1121.5	1140.6	1153.4	1164.4	1165.5
20°	1077.9	1080.8	1079.7	1086.1	1083.2	1082.6	1084.3	1092.4	1098.2	1103.5	1112.8
22.5°	1063.4	1065.8	1064.0	1064.6	1059.4	1054.7	1053.6	1060.0	1066.3	1073.3	1073.3
25°	1051.3	1053.0	1052.4	1051.3	1047.2	1040.8	1039.7	1040.8	1043.1	1043.7	1039.7
27.5°	1036.7	1037.9	1037.9	1038.5	1033.3	1027.5	1026.3	1025.1	1027.5	1026.9	1020.5
30°	1021.7	1019.9	1020.5	1021.1	1016.4	1011.2	1008.9	1008.3	1010.6	1010.1	1003.7
32.5°	985.7	999.0	1000.2	1001.4	997.3	992.7	990.3	988.6	989.8	989.2	983.4
35°	225.7	229.7	281.4	637.0	865.0	957.8	967.7	965.4	966.0	966.0	961.3
37.5°	226.3	225.7	225.1	223.4	221.6	220.5	381.2	812.8	941.6	942.2	938.1
40°	226.3	225.7	225.1	223.9	221.6	219.9	217.0	214.7	219.9	483.9	885.3
42.5°	227.4	226.3	225.1	223.9	221.6	219.3	217.0	214.1	215.8	214.7	211.8
45°	223.9	223.4	223.4	222.8	221.6	219.3	216.4	212.9	211.2	212.9	210.0
47.5°	212.9	213.5	215.2	215.8	215.8	216.4	214.7	212.3	209.4	211.2	207.7
50°	197.8	199.0	199.6	202.5	203.6	206.0	206.5	206.5	206.0	208.3	206.0
52.5°	181.6	182.8	185.7	186.8	188.0	191.5	192.6	194.4	195.5	199.0	201.3
55°	165.9	166.5	167.7	170.0	171.7	174.6	176.4	178.1	181.0	182.8	189.7
57.5°	151.4	152.0	154.3	154.9	156.1	158.4	160.1	162.4	164.8	165.9	174.0
60°	137.5	138.1	139.8	140.4	141.0	143.3	145.0	146.8	148.5	149.7	155.5
62.5°	125.3	125.3	127.1	127.1	127.6	129.4	130.5	131.7	133.4	134.0	136.9
65°	113.1	113.7	114.9	114.9	115.5	116.6	117.2	117.8	119.5	119.5	121.8
67.5°	98.0	98.6	100.4	101.5	102.1	104.4	105.0	105.6	106.7	107.3	108.5
70°	83.5	84.1	85.9	86.4	87.0	88.8	89.9	91.7	93.4	95.1	96.3
72.5°	70.2	70.8	72.5	72.5	74.3	74.8	76.0	76.6	78.3	79.5	81.2
75°	57.4	58.0	59.8	59.8	61.5	62.1	62.7	63.2	64.4	65.6	66.7
77.5°	47.0	47.0	49.3	50.5	51.6	51.6	52.2	52.2	52.2	52.8	54.0
80°	37.1	37.1	38.9	40.0	41.2	41.2	41.8	42.4	42.9	42.9	43.5
82.5°	27.8	27.8	29.6	30.2	31.3	31.3	31.3	31.9	32.5	31.9	33.1
85°	19.1	19.1	20.3	20.9	22.0	22.0	22.0	22.6	23.2	22.6	23.2
87.5°	11.0	11.6	12.2	12.8	13.3	13.9	13.9	13.9	14.5	14.5	15.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213388

CATALOG NUMBER: 4SNLED-LD5-28SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9
2.5°	1354.1	1347.1	1346.6	1338.4	1336.1	1336.7	1330.3	1328.0	1317.5	1315.2	1304.2
5°	1359.3	1362.8	1361.1	1360.5	1362.2	1361.1	1356.4	1354.1	1352.4	1347.7	1338.4
7.5°	1301.9	1304.2	1305.9	1313.5	1319.9	1330.9	1342.5	1350.0	1355.8	1357.0	1349.5
10°	1243.3	1254.3	1261.9	1273.5	1282.7	1289.1	1296.1	1302.5	1319.3	1336.1	1346.0
12.5°	1213.1	1216.0	1215.4	1221.8	1228.2	1245.0	1261.3	1270.6	1283.3	1290.9	1308.8
15°	1187.6	1188.2	1189.9	1194.6	1198.0	1203.8	1211.4	1225.3	1250.8	1262.4	1272.3
17.5°	1164.4	1164.4	1165.5	1169.6	1174.2	1179.5	1184.1	1189.9	1202.7	1221.8	1246.2
20°	1127.3	1143.5	1145.2	1144.7	1147.0	1156.8	1158.0	1168.4	1174.8	1182.4	1206.2
22.5°	1072.1	1082.0	1095.9	1117.4	1125.5	1130.2	1133.6	1138.3	1148.1	1156.8	1166.7
25°	1042.0	1048.4	1052.4	1058.8	1075.6	1102.9	1108.1	1113.3	1119.7	1126.1	1138.3
27.5°	1015.3	1014.7	1017.6	1023.4	1028.0	1042.6	1068.1	1088.4	1089.5	1098.8	1109.3
30°	996.1	992.7	988.6	987.4	993.8	1001.4	1008.9	1040.8	1062.9	1067.5	1078.5
32.5°	978.2	972.4	966.6	961.9	957.8	964.2	968.9	982.8	1011.2	1037.9	1043.7
35°	956.1	950.3	943.3	938.1	931.7	931.2	930.6	943.9	953.2	985.1	1013.0
37.5°	933.5	927.1	921.3	915.5	909.1	904.5	901.6	905.1	913.8	927.7	974.1
40°	909.7	902.2	896.4	891.7	883.0	879.5	873.7	871.4	872.0	884.2	908.5
42.5°	543.6	866.8	869.7	864.4	856.9	852.3	845.9	843.0	837.2	843.0	856.9
45°	209.4	211.8	634.1	837.8	828.5	822.7	816.9	814.0	807.6	802.9	815.7
47.5°	205.4	207.7	203.1	287.8	790.8	792.5	785.5	782.6	776.3	772.8	769.3
50°	202.5	204.2	200.7	201.9	197.8	724.6	753.6	750.1	743.2	739.1	732.2
52.5°	199.6	199.6	197.3	194.4	193.2	193.8	609.8	717.1	709.0	704.9	695.6
55°	190.3	191.5	193.8	189.1	188.0	187.4	185.7	580.7	671.2	666.6	658.5
57.5°	176.4	178.7	185.1	183.9	183.9	179.3	178.1	178.1	539.0	627.7	619.6
60°	160.1	162.4	169.4	171.7	173.5	172.3	171.1	170.6	168.2	568.0	578.4
62.5°	143.3	145.6	147.9	155.5	157.8	160.7	164.2	162.4	160.1	160.1	534.9
65°	125.3	128.8	130.0	136.9	139.8	145.0	147.9	152.0	150.8	150.3	153.2
67.5°	109.7	113.7	114.3	117.2	122.4	124.7	128.2	135.8	139.2	140.4	141.6
70°	96.3	98.6	100.4	101.5	105.0	105.6	112.0	117.2	122.4	128.2	130.0
72.5°	83.0	84.7	88.2	87.0	88.2	90.5	94.0	97.5	102.7	110.8	116.0
75°	67.9	69.0	71.4	72.5	74.8	76.6	78.9	81.8	86.4	90.5	97.5
77.5°	54.5	55.1	56.9	57.4	59.8	61.5	65.6	67.3	70.2	73.1	77.2
80°	44.1	44.1	44.7	44.7	46.4	48.2	51.1	52.8	56.3	58.6	58.6
82.5°	33.6	33.6	35.4	35.4	36.6	36.6	38.3	38.3	40.0	41.2	42.4
85°	23.8	24.4	25.5	24.9	26.1	25.5	26.7	27.8	28.4	27.8	27.3
87.5°	15.7	15.7	16.8	16.2	16.8	16.8	18.0	18.0	18.6	18.6	18.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213388

CATALOG NUMBER: 4SNLED-LD5-28SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9
2.5°	1300.1	1291.4	1286.2	1279.8	1278.1	1276.4	1278.7	1278.7	1275.2	1272.3	1267.1
5°	1330.3	1321.0	1311.2	1300.7	1290.9	1280.4	1276.4	1275.8	1269.4	1265.9	1264.2
7.5°	1346.0	1341.3	1330.3	1315.8	1300.7	1282.2	1274.0	1269.4	1263.0	1261.9	1261.9
10°	1347.7	1342.5	1336.7	1326.3	1308.8	1284.5	1268.8	1259.5	1253.7	1257.8	1265.3
12.5°	1330.9	1340.8	1335.5	1328.6	1314.6	1285.1	1262.4	1248.5	1246.8	1257.2	1276.9
15°	1288.0	1317.0	1331.5	1324.5	1313.5	1283.9	1252.0	1235.7	1235.7	1257.2	1282.7
17.5°	1255.5	1278.1	1313.5	1319.3	1306.5	1281.6	1242.1	1223.0	1228.2	1259.5	1286.8
20°	1228.8	1242.7	1276.9	1309.4	1297.2	1276.4	1227.6	1207.9	1218.3	1256.1	1292.6
22.5°	1187.0	1214.9	1235.7	1283.9	1288.0	1266.5	1213.1	1189.3	1210.2	1256.1	1289.7
25°	1146.4	1180.0	1202.1	1249.1	1274.0	1254.3	1199.8	1169.6	1201.5	1254.3	1287.4
27.5°	1118.0	1133.6	1173.7	1207.3	1253.2	1238.1	1181.8	1148.1	1190.5	1245.0	1274.0
30°	1087.8	1098.2	1137.7	1169.6	1225.3	1219.5	1163.2	1124.4	1176.6	1236.3	1239.2
32.5°	1054.7	1066.3	1086.6	1133.1	1186.4	1202.1	1142.3	1100.6	1161.5	1223.0	1198.6
35°	1021.1	1029.8	1046.0	1095.9	1141.2	1176.0	1116.8	1073.3	1151.0	1202.7	1159.7
37.5°	987.4	996.7	1010.6	1052.4	1093.6	1151.6	1094.8	1046.0	1131.9	1166.7	1119.1
40°	955.5	960.7	975.3	1001.4	1054.2	1126.7	1069.8	1017.6	1112.2	1120.9	1064.0
42.5°	896.9	923.0	936.4	957.3	1009.5	1092.4	1040.8	987.4	1090.1	1075.0	1008.9
45°	833.7	890.5	896.4	917.2	970.0	1055.9	1013.5	957.8	1069.2	1035.6	956.7
47.5°	782.1	823.3	856.9	874.3	923.0	1013.0	988.0	932.9	1037.9	985.7	905.6
50°	736.2	758.3	819.2	832.0	866.8	961.3	957.8	903.9	994.4	923.0	855.7
52.5°	691.6	707.2	762.3	789.6	818.0	905.6	921.9	875.5	946.8	860.4	805.3
55°	652.7	657.9	688.1	745.5	771.0	849.4	882.4	842.4	886.5	800.6	756.5
57.5°	612.7	608.0	630.1	703.7	722.3	791.9	840.7	808.7	837.8	739.7	706.1
60°	570.9	564.5	573.8	622.5	670.7	735.1	791.3	771.6	778.6	679.4	649.8
62.5°	527.4	521.0	518.1	548.8	620.2	676.5	741.4	730.4	706.1	624.3	580.2
65°	482.1	475.7	471.1	483.3	564.5	600.5	685.8	682.9	626.6	566.2	488.5
67.5°	146.8	432.8	422.9	422.4	475.7	531.4	625.4	620.8	546.5	504.2	420.6
70°	132.3	351.0	373.0	367.8	391.0	461.2	556.4	552.9	468.8	404.4	371.9
72.5°	121.3	124.2	329.5	323.7	329.0	392.2	484.4	475.2	397.4	319.1	321.4
75°	103.8	109.1	113.7	273.3	266.3	324.9	406.1	391.6	327.8	263.4	268.6
77.5°	84.7	91.1	94.6	199.0	215.2	231.5	324.3	305.2	225.7	210.6	100.4
80°	63.2	68.5	74.3	79.5	163.6	161.9	240.8	221.6	157.2	131.1	78.3
82.5°	46.4	48.2	51.6	57.4	65.0	108.5	154.9	136.3	109.1	59.8	54.0
85°	29.0	31.3	33.1	34.8	39.5	65.0	76.6	60.9	45.8	36.6	34.2
87.5°	18.6	18.6	18.0	18.6	19.1	23.2	26.1	24.9	19.7	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213388

CATALOG NUMBER: 4SNLED-LD5-28SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9
2.5°	1261.3	1253.2	1253.2	1250.8	1252.6	1252.6	1252.0	1252.6	1256.6	1259.0	1263.0
5°	1260.7	1258.4	1263.6	1270.0	1277.5	1286.8	1289.1	1297.2	1304.8	1314.6	1325.1
7.5°	1268.2	1276.4	1286.2	1296.7	1311.7	1322.8	1332.6	1342.5	1349.5	1358.7	1364.5
10°	1279.3	1295.5	1312.3	1325.7	1341.9	1351.2	1357.6	1358.7	1348.9	1333.2	1320.4
12.5°	1294.9	1314.1	1329.7	1342.5	1350.0	1346.6	1328.0	1308.8	1297.8	1281.6	1259.0
15°	1308.3	1325.7	1341.9	1336.7	1316.4	1297.2	1282.7	1260.1	1238.1	1223.0	1213.1
17.5°	1314.1	1330.9	1325.1	1297.8	1278.7	1256.6	1227.0	1209.6	1195.1	1183.5	1177.7
20°	1317.5	1314.6	1283.3	1263.6	1226.5	1206.2	1187.0	1170.8	1159.7	1153.9	1152.8
22.5°	1308.3	1272.9	1246.2	1210.8	1183.5	1166.7	1151.6	1138.3	1130.7	1126.1	1123.2
25°	1277.5	1236.3	1196.9	1169.0	1145.8	1131.3	1119.7	1108.7	1099.4	1097.1	1091.3
27.5°	1234.6	1200.9	1148.7	1127.3	1106.9	1100.0	1087.2	1076.2	1068.1	1061.1	1042.6
30°	1199.2	1145.8	1108.1	1088.4	1076.2	1068.1	1053.6	1042.0	1028.0	1002.5	992.1
32.5°	1155.7	1102.9	1066.9	1055.9	1040.8	1033.8	1017.6	992.1	970.6	960.2	959.6
35°	1099.4	1055.9	1029.8	1019.9	1007.7	996.1	962.5	939.3	928.8	930.0	938.7
37.5°	1052.4	1013.5	996.7	982.8	968.9	939.3	910.9	899.8	902.7	908.5	912.6
40°	1004.8	975.3	956.1	945.1	913.8	884.7	869.7	873.7	878.9	883.0	888.2
42.5°	958.4	937.5	918.4	896.9	854.0	838.3	841.8	847.0	851.7	857.5	862.7
45°	914.3	895.8	873.7	825.0	803.5	807.6	812.8	816.9	823.8	827.9	833.1
47.5°	872.6	852.8	814.0	771.0	768.7	776.8	781.5	786.7	791.9	781.5	431.1
50°	825.6	805.3	746.1	729.8	735.1	742.6	748.4	753.6	671.2	266.9	205.4
52.5°	779.2	727.5	689.8	694.5	699.7	708.4	712.4	529.1	210.6	200.7	201.3
55°	727.5	661.4	650.4	656.2	660.8	669.5	443.8	194.4	193.2	192.6	197.3
57.5°	646.3	606.3	610.9	616.7	621.4	438.6	189.1	188.0	188.6	189.1	189.7
60°	573.8	565.1	570.3	575.5	407.3	182.8	179.3	179.9	182.2	180.4	175.8
62.5°	516.3	523.3	528.5	463.0	173.5	171.7	173.5	171.7	167.7	164.8	159.0
65°	472.3	479.2	483.3	163.0	162.4	164.8	163.0	157.2	150.8	142.7	141.0
67.5°	425.8	432.8	154.9	150.8	153.2	150.3	143.3	136.3	131.7	124.7	121.8
70°	377.7	161.9	140.4	139.8	135.8	131.1	123.6	116.6	110.8	107.9	105.0
72.5°	272.7	128.2	126.5	121.8	114.9	108.5	102.1	98.0	95.1	93.4	91.7
75°	113.7	111.4	106.2	98.0	91.1	88.2	83.5	80.6	79.5	76.0	74.8
77.5°	95.1	90.5	83.0	77.2	73.1	71.4	67.9	64.4	62.7	62.1	59.8
80°	73.1	66.7	63.2	60.3	59.2	55.1	51.1	49.3	48.2	47.6	45.8
82.5°	49.9	47.6	45.3	41.2	41.2	39.5	37.7	36.6	35.4	35.4	34.2
85°	32.5	30.7	30.2	28.4	28.4	27.3	26.7	26.1	25.5	24.9	24.4
87.5°	18.6	18.6	19.1	18.6	18.6	18.0	17.4	16.8	16.2	16.2	15.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213388

CATALOG NUMBER: 4SNLED-LD5-28SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9
2.5°	1268.2	1274.0	1275.2	1294.9	1305.9	1305.4	1301.9	1312.3	1305.9	1302.5	1305.9
5°	1335.5	1342.5	1348.3	1369.8	1377.3	1380.8	1380.2	1386.0	1381.4	1377.3	1377.3
7.5°	1368.6	1370.9	1373.2	1368.0	1364.5	1358.7	1350.0	1337.3	1330.9	1323.9	1315.2
10°	1314.1	1306.5	1309.4	1299.0	1290.3	1283.9	1275.8	1265.3	1256.6	1250.2	1240.4
12.5°	1247.3	1246.8	1247.9	1249.7	1241.0	1235.7	1229.4	1221.8	1215.4	1208.5	1200.4
15°	1206.7	1207.3	1212.0	1210.2	1207.3	1204.4	1197.5	1195.1	1189.3	1181.8	1177.1
17.5°	1177.7	1180.6	1185.3	1183.0	1178.3	1175.4	1170.2	1165.0	1159.7	1153.9	1147.0
20°	1152.2	1155.1	1158.0	1155.1	1146.4	1142.3	1135.4	1119.1	1107.5	1095.9	1085.5
22.5°	1124.4	1126.1	1123.8	1114.5	1092.4	1082.0	1073.9	1069.2	1059.4	1053.0	1046.6
25°	1089.5	1079.7	1064.6	1054.2	1045.5	1040.8	1037.3	1036.7	1035.6	1034.4	1031.5
27.5°	1032.7	1029.2	1021.1	1017.0	1017.6	1019.3	1019.9	1021.7	1019.9	1017.6	1015.3
30°	990.3	992.1	992.7	993.8	996.7	998.5	999.0	1001.4	1000.2	998.5	997.3
32.5°	963.6	967.7	970.0	973.5	975.3	978.2	978.2	981.6	978.2	977.6	976.4
35°	941.6	945.1	946.2	951.5	953.2	956.1	956.1	959.0	956.1	926.5	731.6
37.5°	919.6	923.0	925.4	930.0	930.6	932.3	860.4	629.5	406.1	314.4	240.2
40°	893.4	897.5	899.8	901.6	633.5	402.1	276.7	225.1	225.1	226.8	228.6
42.5°	865.6	868.5	605.1	352.2	219.3	218.7	220.5	222.2	223.9	226.3	228.6
45°	680.5	343.5	218.1	212.9	214.7	217.0	219.3	221.6	224.5	226.8	228.0
47.5°	223.4	209.4	212.3	210.0	212.9	215.8	218.1	220.5	221.0	221.6	221.0
50°	206.5	206.5	208.3	208.3	210.6	211.8	211.8	211.8	209.4	208.9	207.1
52.5°	199.6	204.2	201.9	203.1	201.9	200.2	198.4	196.7	193.2	192.0	189.7
55°	196.1	197.8	192.0	190.3	188.0	183.3	181.0	178.7	175.8	174.6	171.7
57.5°	188.0	183.9	177.5	174.6	170.6	165.9	163.6	161.9	159.0	157.8	156.1
60°	172.9	164.8	160.7	157.2	152.6	148.5	146.8	145.6	143.3	142.7	141.0
62.5°	154.3	147.4	143.9	139.2	135.8	133.4	131.7	131.1	128.8	128.8	127.6
65°	134.0	130.5	127.6	123.0	121.3	118.9	118.4	117.8	116.6	116.0	114.9
67.5°	117.8	115.5	111.4	109.1	107.9	106.2	105.0	103.8	101.5	100.4	98.6
70°	103.3	101.5	97.5	95.7	93.4	90.5	88.8	87.6	85.9	84.7	83.0
72.5°	89.3	84.1	81.2	79.5	77.7	74.8	74.3	73.1	71.4	70.8	69.0
75°	71.9	67.9	66.1	65.0	63.2	61.5	61.5	61.5	59.8	59.2	58.6
77.5°	57.4	55.1	54.0	52.8	52.2	51.1	49.3	48.7	47.0	47.0	46.4
80°	44.1	42.9	41.8	41.2	40.6	39.5	38.3	37.7	36.0	36.0	35.4
82.5°	32.5	31.9	31.3	30.7	30.2	29.6	27.8	27.3	26.1	26.1	25.5
85°	23.2	22.6	21.5	20.9	20.9	20.3	18.6	18.0	16.8	16.8	16.8
87.5°	14.5	13.9	13.3	12.8	12.2	11.6	10.4	9.9	9.9	8.7	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213388

CATALOG NUMBER: 4SNLED-LD5-28SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9
2.5°	1299.0	1308.8	1307.7	1314.6	1316.4	1319.9	1321.0	1321.6	1312.9	1319.9	1320.4
5°	1375.6	1377.3	1378.5	1381.4	1384.3	1384.8	1381.9	1378.5	1379.6	1377.3	1371.5
7.5°	1314.1	1305.4	1303.6	1301.3	1300.1	1299.0	1293.8	1298.4	1293.2	1290.9	1282.7
10°	1238.6	1230.5	1229.9	1229.9	1231.7	1231.1	1229.9	1227.6	1232.3	1229.4	1227.6
12.5°	1199.2	1196.3	1198.0	1196.9	1201.5	1202.7	1201.5	1201.5	1200.4	1198.0	1199.2
15°	1175.4	1173.1	1174.8	1173.1	1176.6	1177.1	1174.2	1176.0	1173.1	1170.2	1169.0
17.5°	1144.1	1138.9	1134.8	1129.0	1129.6	1128.4	1124.9	1124.9	1122.0	1114.5	1115.1
20°	1083.7	1078.5	1076.2	1076.2	1079.1	1080.3	1079.7	1080.8	1077.9	1076.8	1072.1
22.5°	1046.0	1045.5	1046.6	1049.5	1054.2	1060.5	1061.1	1061.1	1061.1	1060.5	1054.7
25°	1032.7	1032.7	1033.8	1037.9	1041.4	1046.0	1047.2	1048.4	1047.2	1047.2	1042.0
27.5°	1017.6	1016.4	1018.8	1022.8	1026.9	1030.4	1033.3	1033.8	1032.1	1032.1	1033.8
30°	999.0	998.5	1001.4	1005.4	1008.9	1012.4	1015.3	1017.6	1015.3	1015.3	1013.5
32.5°	979.9	979.9	981.1	956.7	887.1	798.9	800.6	749.6	714.2	669.5	728.7
35°	611.5	445.0	382.3	323.7	282.5	255.9	255.3	246.6	242.5	239.6	239.0
37.5°	230.9	232.1	234.4	235.5	237.3	238.4	239.0	239.0	239.0	239.0	238.4
40°	230.3	232.6	234.4	236.1	237.9	239.0	239.0	239.6	240.2	240.2	240.2
42.5°	230.9	233.2	235.5	237.3	238.4	239.0	239.6	240.2	240.2	240.2	240.2
45°	230.3	231.5	231.5	232.1	232.1	232.1	232.6	232.6	232.1	231.5	232.6
47.5°	221.6	221.6	219.9	219.3	218.7	217.6	218.1	217.6	217.0	216.4	217.6
50°	206.5	204.2	203.1	201.9	201.3	200.2	200.7	200.2	199.6	198.4	200.2
52.5°	188.6	188.0	185.7	184.5	183.9	184.5	183.3	182.8	182.2	181.6	182.2
55°	171.1	168.8	168.2	167.1	166.5	167.1	166.5	165.9	165.3	164.8	165.3
57.5°	155.5	153.7	153.2	152.0	152.0	152.0	152.0	151.4	150.8	150.3	150.8
60°	140.4	139.2	138.7	138.7	138.1	138.1	138.1	137.5	136.9	136.9	137.5
62.5°	127.6	127.6	125.9	125.3	125.3	125.9	125.3	124.7	124.2	123.6	124.7
65°	114.3	112.0	111.4	110.2	109.1	109.7	109.1	108.5	107.9	107.3	108.5
67.5°	98.0	97.5	95.1	94.0	93.4	94.0	93.4	92.8	92.2	91.7	92.8
70°	82.4	82.4	80.1	79.5	78.9	78.9	78.3	78.3	77.7	77.2	78.3
72.5°	68.5	68.5	67.9	66.7	66.1	65.6	65.0	64.4	64.4	65.0	65.0
75°	56.9	55.7	53.4	54.0	53.4	52.8	52.8	52.2	51.6	52.8	52.2
77.5°	44.7	44.1	42.4	42.9	42.4	41.8	41.8	41.2	40.6	41.2	41.2
80°	33.6	33.6	33.1	32.5	32.5	31.9	31.3	31.3	30.7	31.3	31.3
82.5°	24.4	24.4	23.8	23.2	22.6	22.6	22.0	22.0	22.0	22.0	22.0
85°	15.7	15.1	15.1	13.9	13.9	13.9	13.3	13.3	13.3	13.3	13.3
87.5°	7.5	7.5	7.0	7.0	6.4	5.8	5.8	5.2	5.2	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213388

CATALOG NUMBER: 4SNLED-LD5-28SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9
2.5°	1310.0	1317.5	1311.2	1314.1	1314.6	1324.5	1323.9	1326.3	1322.2	1317.5	1311.2
5°	1376.7	1373.2	1368.6	1379.6	1373.8	1380.8	1383.1	1387.7	1387.7	1387.2	1381.9
7.5°	1291.4	1283.9	1289.7	1293.8	1295.5	1290.9	1300.1	1310.6	1319.3	1324.5	1325.1
10°	1224.7	1227.0	1226.5	1228.2	1232.3	1231.7	1237.5	1243.3	1245.6	1249.1	1250.2
12.5°	1193.4	1192.8	1194.0	1198.0	1200.4	1199.8	1205.6	1209.1	1210.2	1210.8	1210.2
15°	1168.4	1164.4	1167.3	1167.9	1169.6	1169.6	1176.6	1181.8	1184.1	1185.3	1184.1
17.5°	1121.5	1111.6	1120.9	1120.9	1127.3	1126.1	1137.1	1145.8	1150.5	1153.9	1153.9
20°	1075.0	1070.4	1073.9	1072.7	1077.4	1076.8	1083.7	1089.5	1093.6	1096.5	1100.0
22.5°	1056.5	1057.6	1052.4	1053.0	1053.0	1052.4	1055.9	1058.8	1060.0	1061.7	1060.5
25°	1044.3	1045.5	1043.7	1040.8	1039.7	1040.8	1042.6	1046.0	1046.6	1045.5	1041.4
27.5°	1032.1	1028.6	1031.5	1026.3	1025.1	1027.5	1029.8	1030.4	1030.9	1030.9	1027.5
30°	1013.5	1010.6	1013.5	1011.2	1008.9	1011.2	1013.0	1013.0	1014.1	1014.7	1010.6
32.5°	708.4	714.2	808.2	865.0	945.1	985.7	993.2	993.2	994.4	994.4	990.9
35°	241.3	241.9	261.7	283.7	330.7	388.7	464.7	504.2	637.6	797.1	951.5
37.5°	238.4	237.9	237.3	236.7	236.1	235.5	234.4	233.8	237.3	281.4	381.7
40°	239.6	239.0	237.9	237.3	236.7	235.5	235.0	233.8	232.6	231.5	230.3
42.5°	239.6	239.0	238.4	237.9	237.3	236.7	235.5	234.4	233.2	231.5	229.7
45°	231.5	231.5	232.1	232.1	232.6	232.6	232.6	232.1	232.1	231.5	229.2
47.5°	216.4	216.4	218.1	218.1	219.3	220.5	220.5	221.6	223.4	224.5	225.1
50°	199.0	199.0	200.7	201.3	202.5	204.2	206.0	206.5	208.3	210.6	212.9
52.5°	181.6	181.6	183.3	183.3	184.5	186.2	188.0	188.6	190.9	193.2	196.1
55°	165.3	165.3	166.5	167.1	167.7	168.8	170.6	170.6	172.9	174.6	177.5
57.5°	150.8	152.0	152.0	152.0	152.6	153.7	154.9	154.9	156.6	158.4	160.7
60°	136.9	138.1	138.1	138.1	138.7	139.2	140.4	140.4	141.6	142.7	145.0
62.5°	124.2	125.3	125.3	125.9	125.9	126.5	127.6	127.1	128.2	128.8	130.5
65°	107.9	109.1	109.7	110.2	110.8	112.0	113.7	113.1	114.9	116.0	117.8
67.5°	92.2	93.4	93.4	94.0	94.6	95.7	96.9	96.9	98.6	99.8	102.1
70°	77.7	78.9	78.9	79.5	80.1	81.2	82.4	81.8	83.5	84.7	86.4
72.5°	64.4	65.6	65.6	66.1	66.1	67.3	68.5	69.6	69.6	70.8	71.9
75°	52.2	52.8	53.4	53.4	54.0	54.5	55.7	56.9	57.4	58.0	59.2
77.5°	41.2	41.8	42.4	42.4	42.9	43.5	44.1	46.4	47.6	48.2	48.2
80°	31.3	31.9	31.9	31.9	32.5	33.1	34.2	34.2	36.6	36.6	37.1
82.5°	22.0	22.6	22.6	22.6	23.2	24.4	24.9	25.5	26.7	27.3	27.3
85°	13.3	13.9	13.9	13.9	14.5	15.1	16.2	16.8	17.4	17.4	18.0
87.5°	5.2	5.8	6.4	6.4	7.0	7.5	8.1	8.7	9.3	9.3	9.9
90°	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):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9
2.5°	1304.2	1308.3	1304.2	1306.5	1309.4	1304.2	1292.0	1287.4	1285.6	1278.7	1274.0
5°	1376.7	1376.7	1375.0	1379.6	1379.0	1370.9	1358.2	1352.4	1346.6	1339.0	1333.2
7.5°	1325.1	1329.7	1332.6	1350.6	1362.2	1363.4	1371.5	1373.2	1375.6	1373.2	1369.8
10°	1250.8	1249.1	1257.2	1274.0	1283.9	1289.1	1304.8	1312.3	1318.7	1331.5	1344.8
12.5°	1209.1	1211.4	1214.9	1227.0	1236.3	1234.0	1240.4	1245.6	1253.2	1265.9	1285.1
15°	1181.2	1183.5	1187.0	1196.3	1202.1	1199.2	1202.7	1206.2	1211.4	1217.8	1229.4
17.5°	1151.0	1155.1	1159.2	1169.0	1174.2	1173.7	1176.6	1177.7	1179.5	1183.5	1191.7
20°	1104.0	1116.8	1124.9	1138.3	1145.8	1144.7	1149.9	1151.6	1153.9	1158.0	1161.5
22.5°	1061.1	1064.6	1068.7	1083.2	1095.9	1111.6	1115.1	1119.7	1125.5	1129.6	1133.1
25°	1036.7	1034.4	1036.2	1046.0	1053.0	1054.2	1059.4	1074.5	1090.1	1097.1	1105.2
27.5°	1022.2	1019.9	1019.3	1024.0	1025.1	1022.2	1021.1	1025.7	1037.3	1048.9	1073.3
30°	1006.6	1003.7	1001.4	1005.4	1007.2	1003.1	995.6	991.5	998.5	1001.4	1011.2
32.5°	988.0	985.1	984.0	986.3	987.4	984.0	975.8	971.2	970.0	967.7	970.0
35°	967.1	964.2	962.5	963.1	965.4	962.5	955.5	949.7	946.8	940.4	935.8
37.5°	498.4	706.1	916.7	938.7	941.0	940.4	933.5	927.1	924.2	916.7	914.3
40°	228.0	254.7	382.3	499.5	720.6	915.5	909.1	902.7	897.5	895.2	886.5
42.5°	227.4	228.0	228.6	225.7	279.6	476.3	703.2	877.8	874.3	868.5	862.1
45°	227.4	224.5	226.8	223.4	224.5	223.9	279.1	450.2	801.2	837.2	834.3
47.5°	225.1	223.4	225.7	222.8	219.3	221.0	218.7	221.6	345.8	586.5	803.5
50°	214.7	215.8	219.9	219.3	216.4	218.7	214.7	218.1	215.2	236.1	454.8
52.5°	199.0	201.3	205.4	208.9	210.0	212.9	211.8	212.9	210.6	211.2	211.8
55°	180.4	183.3	186.8	192.0	194.4	199.0	202.5	204.2	207.1	206.5	201.9
57.5°	163.0	165.9	168.8	174.0	179.3	181.6	188.0	191.5	199.0	197.3	196.1
60°	146.8	149.1	152.0	153.2	159.5	163.6	169.4	172.9	182.8	185.1	188.6
62.5°	132.3	133.4	135.8	137.5	141.6	145.6	148.5	154.3	159.5	167.1	172.3
65°	118.9	120.1	121.8	123.0	123.6	129.4	131.1	137.5	139.2	147.4	152.0
67.5°	103.8	106.2	108.5	109.7	110.8	114.3	115.5	118.4	122.4	125.9	131.7
70°	88.2	89.9	92.2	94.0	96.3	98.6	102.1	103.8	106.7	109.1	113.7
72.5°	73.7	75.4	76.6	78.3	80.1	81.8	84.7	88.8	91.1	95.1	96.3
75°	59.8	61.5	62.7	63.8	65.6	66.7	67.9	71.9	74.3	77.7	81.2
77.5°	49.3	49.3	50.5	54.0	53.4	53.4	54.5	56.9	58.6	60.9	64.4
80°	38.3	38.9	39.5	42.4	42.9	43.5	42.9	44.7	46.4	47.0	49.3
82.5°	28.4	29.0	29.0	30.7	32.5	32.5	32.5	33.1	34.8	35.4	36.6
85°	19.1	19.7	20.3	20.9	22.0	22.6	23.2	23.2	24.4	24.9	25.5
87.5°	10.4	11.6	12.2	12.8	13.3	13.9	14.5	15.1	15.7	16.2	16.8
90°	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):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9
2.5°	1272.3	1269.4	1267.7	1263.0	1261.9	1254.3	1255.5	1254.3	1254.3	1256.1	1261.9
5°	1326.8	1312.9	1309.4	1299.6	1291.4	1277.5	1268.8	1264.2	1257.2	1254.3	1258.4
7.5°	1364.0	1353.5	1344.8	1336.1	1324.5	1308.3	1296.1	1282.2	1270.6	1259.5	1256.6
10°	1357.6	1369.2	1369.2	1364.0	1352.9	1336.7	1322.2	1304.8	1284.5	1267.1	1256.6
12.5°	1303.6	1323.9	1340.2	1352.4	1363.4	1352.4	1337.9	1323.9	1301.3	1275.8	1256.6
15°	1244.4	1265.3	1285.6	1311.2	1337.9	1348.9	1348.3	1332.1	1311.7	1285.1	1258.4
17.5°	1202.7	1217.2	1228.2	1256.1	1288.5	1317.0	1336.1	1337.3	1317.5	1293.8	1259.0
20°	1171.3	1181.8	1191.1	1206.7	1235.2	1270.0	1305.4	1325.1	1321.6	1295.5	1260.7
22.5°	1142.9	1150.5	1158.0	1169.6	1192.2	1214.9	1256.1	1296.7	1314.1	1292.6	1259.0
25°	1114.5	1122.6	1128.4	1136.5	1154.5	1173.1	1202.1	1252.6	1291.4	1290.3	1255.5
27.5°	1080.8	1091.9	1098.8	1109.9	1122.0	1136.0	1155.7	1203.3	1259.0	1278.7	1246.2
30°	1040.2	1056.5	1066.9	1079.1	1089.5	1101.7	1117.4	1146.4	1215.4	1256.1	1236.3
32.5°	981.6	1010.6	1033.8	1045.5	1057.1	1067.5	1081.4	1105.8	1162.1	1225.3	1225.3
35°	939.9	953.2	974.1	1007.7	1022.2	1032.7	1045.5	1064.6	1100.6	1188.8	1207.3
37.5°	907.4	912.6	923.0	956.1	983.4	1000.2	1013.0	1025.1	1060.5	1138.9	1184.1
40°	883.0	881.3	880.1	895.8	934.6	961.3	975.8	988.0	1015.3	1079.1	1153.4
42.5°	854.6	852.8	847.0	851.1	870.2	914.9	937.0	950.3	972.9	1016.4	1119.7
45°	825.0	822.1	819.8	815.7	822.7	847.6	892.9	912.6	925.4	964.2	1077.4
47.5°	794.8	790.8	787.9	784.4	780.3	791.9	834.9	870.2	892.3	916.7	1026.3
50°	751.9	757.1	753.6	749.6	746.1	743.8	761.8	819.8	847.0	866.8	964.2
52.5°	354.5	689.2	718.2	714.2	709.5	705.5	709.5	753.6	802.9	818.6	889.4
55°	201.9	306.9	638.8	675.3	671.2	665.4	662.0	677.0	750.7	771.6	820.9
57.5°	194.4	194.9	282.0	608.6	631.2	626.0	621.9	625.4	688.1	723.5	761.2
60°	188.0	188.0	188.0	269.2	581.9	583.6	578.4	572.6	599.9	669.5	700.8
62.5°	174.0	177.5	179.3	179.3	265.7	539.0	533.7	532.0	533.2	604.5	640.5
65°	156.1	164.2	167.7	170.0	170.0	279.1	487.9	485.0	481.0	508.2	579.6
67.5°	136.3	144.5	152.0	156.6	157.2	162.4	291.2	436.9	431.1	431.6	514.6
70°	116.0	123.0	131.1	138.1	144.5	147.4	152.0	362.6	381.7	373.6	440.9
72.5°	100.4	103.3	109.1	116.0	123.6	130.5	134.6	144.5	331.3	322.6	335.3
75°	83.5	85.9	89.9	94.6	100.4	108.5	115.5	122.4	175.8	270.4	268.6
77.5°	65.0	69.0	73.7	76.6	79.5	85.3	94.6	101.5	108.5	182.8	215.2
80°	49.9	52.8	55.1	58.0	61.5	65.6	69.0	77.2	85.3	91.7	164.8
82.5°	37.1	38.9	40.6	41.8	42.9	45.3	51.6	54.5	59.8	65.6	77.7
85°	26.1	27.3	28.4	29.0	29.6	30.2	32.5	33.1	38.3	39.5	47.0
87.5°	16.8	17.4	18.6	19.1	19.1	19.7	20.3	20.3	20.3	19.1	23.2
90°	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):

	357.5°	360°
0°	1265.9	1265.9
2.5°	1266.5	1275.8
5°	1264.8	1276.9
7.5°	1260.1	1271.7
10°	1253.2	1267.1
12.5°	1245.6	1259.0
15°	1239.2	1249.1
17.5°	1232.3	1238.1
20°	1223.0	1227.6
22.5°	1213.7	1211.4
25°	1203.3	1198.0
27.5°	1189.9	1180.0
30°	1177.7	1160.3
32.5°	1166.1	1137.7
35°	1150.5	1114.5
37.5°	1134.2	1090.7
40°	1115.1	1063.4
42.5°	1094.8	1036.2
45°	1069.2	1010.1
47.5°	1046.6	978.7
50°	1015.3	945.1
52.5°	977.0	913.8
55°	931.7	875.5
57.5°	883.0	835.4
60°	830.8	789.6
62.5°	767.6	742.0
65°	693.3	687.5
67.5°	596.4	627.2
70°	489.1	558.1
72.5°	409.0	485.0
75°	335.3	403.2
77.5°	265.7	316.2
80°	165.9	231.5
82.5°	111.4	152.0
85°	67.3	72.5
87.5°	26.1	26.7
90°	0.0	0.0

(END OF REPORT)