

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: P1213046

Luminaire Tested: 4SNLED-LD5-32SL-RW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213046
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-LD5-32SL-RW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

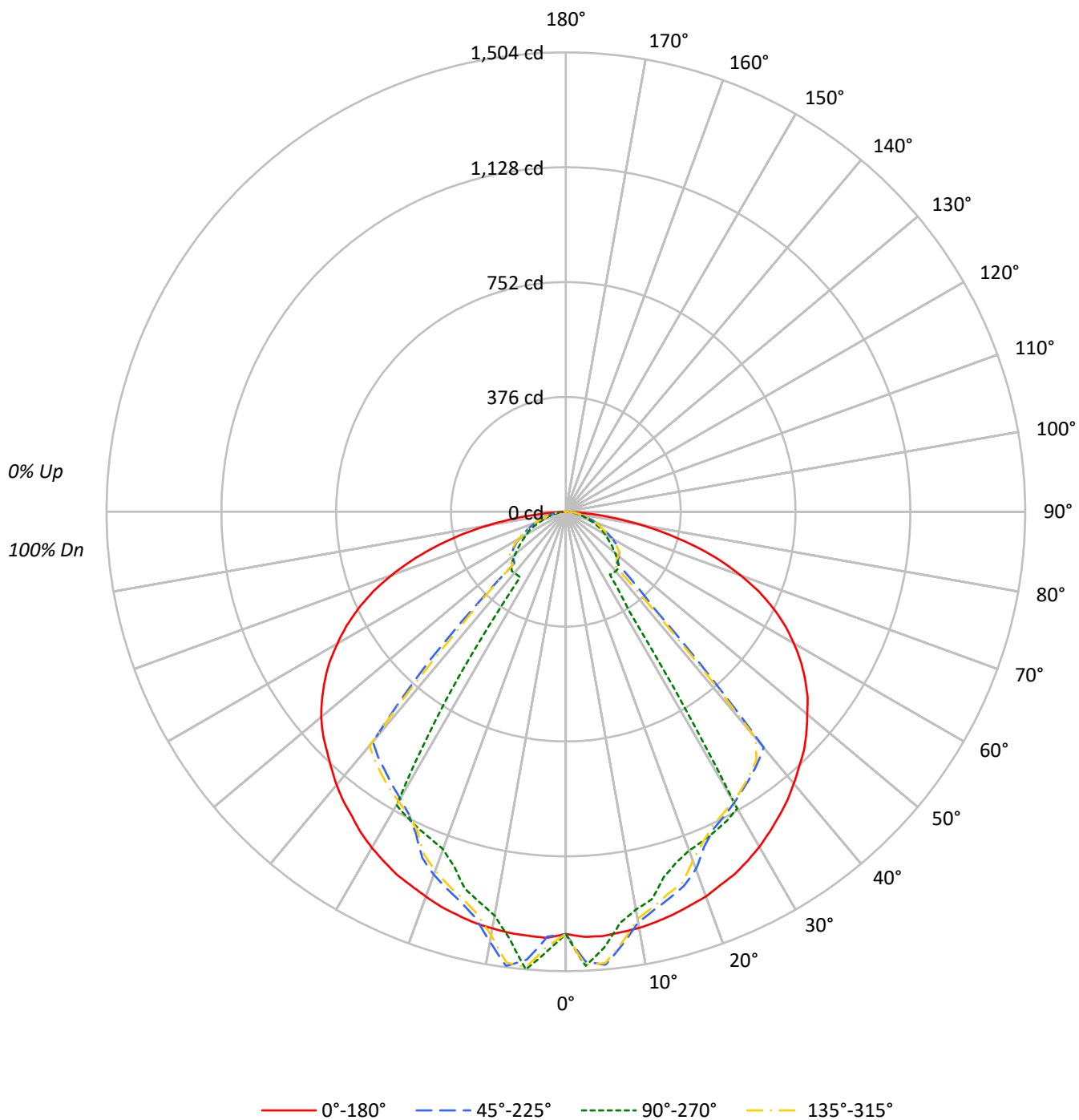
Lumens per Lamp: N/A
Luminaire Lumens: 2768.0 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 25
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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CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L930-CD1-U

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11170	11170	11170	11170
5°	11280	11254	11275	11812
10°	11290	10175	11306	10331
15°	11316	9414	11342	9712
20°	11398	8929	11398	8896
25°	11497	8758	11514	8676
30°	11613	8604	11641	8502
35°	11748	1960	11773	2044
40°	11937	2038	12007	2104
45°	12222	2027	12264	2101
50°	12507	1833	12677	1882
55°	12892	1627	12995	1650
60°	13219	1446	13249	1464
65°	13453	1262	13419	1242
70°	13260	1017	13219	981
75°	12311	783	12398	749
80°	9993	556	10393	509
85°	5411	333	5711	256

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 13546 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	4.9
10°-20°	373.9	13.5
20°-30°	553.9	20.0
30°-40°	558.1	20.2
40°-50°	435.9	15.7
50°-60°	336.7	12.2
60°-70°	226.1	8.2
70°-80°	115.3	4.2
80°-90°	32.1	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°	1063.8	38.4
0°-40°	1621.9	58.6
0°-60°	2394.5	86.5
0°-90°	2768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2768.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1382	1382	1382	1382	1382	
5°	1394	1433	1394	1504	1394	133
15°	1364	1238	1367	1278	1364	386
25°	1308	1154	1310	1143	1308	603
35°	1217	251	1220	262	1217	763
45°	1103	244	1107	253	1103	850
55°	956	177	964	180	956	854
65°	751	119	749	117	751	738
75°	440	60	443	58	440	460
85°	79	19	84	15	79	109
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°	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3
2.5°	1393.0	1398.1	1401.9	1404.4	1405.7	1405.7	1406.3	1407.0	1415.2	1419.0	1421.5
5°	1394.3	1399.4	1407.0	1417.1	1426.0	1433.6	1439.9	1448.8	1457.7	1467.2	1470.3
7.5°	1388.6	1394.9	1410.1	1428.5	1445.6	1457.7	1465.9	1471.6	1476.0	1476.7	1479.8
10°	1383.5	1394.9	1415.8	1439.9	1461.5	1476.0	1476.0	1472.9	1477.3	1460.2	1443.1
12.5°	1374.7	1387.3	1415.8	1447.5	1467.8	1473.5	1471.0	1458.3	1432.3	1411.4	1401.9
15°	1363.9	1381.0	1416.5	1452.0	1469.1	1471.0	1446.9	1414.6	1394.9	1382.3	1366.4
17.5°	1351.9	1374.7	1417.1	1452.6	1458.9	1450.1	1404.4	1384.2	1363.9	1334.1	1312.6
20°	1340.5	1362.6	1412.0	1443.7	1447.5	1407.6	1372.1	1350.6	1316.4	1290.4	1280.9
22.5°	1322.7	1348.7	1407.6	1431.7	1417.1	1370.9	1336.7	1302.4	1271.4	1263.8	1252.4
25°	1308.2	1335.4	1397.5	1417.1	1378.5	1337.3	1297.4	1257.5	1242.9	1232.1	1222.0
27.5°	1288.5	1322.1	1384.2	1390.5	1337.3	1301.2	1242.9	1225.2	1211.9	1199.8	1195.4
30°	1267.0	1308.2	1365.8	1353.8	1303.1	1249.9	1206.8	1190.3	1180.8	1168.1	1163.1
32.5°	1242.3	1287.2	1345.5	1311.3	1266.3	1199.8	1172.0	1159.3	1146.6	1137.1	1105.4
35°	1216.9	1268.9	1321.5	1270.8	1222.0	1161.8	1137.1	1125.7	1113.7	1078.8	1045.9
37.5°	1191.0	1248.6	1292.3	1227.1	1163.1	1122.5	1101.6	1089.0	1061.7	1017.4	1000.9
40°	1161.2	1223.9	1254.9	1182.1	1111.8	1082.6	1063.0	1050.3	988.9	969.2	964.2
42.5°	1131.4	1199.8	1209.3	1138.4	1069.3	1040.2	1023.7	981.9	940.1	930.0	931.9
45°	1102.9	1173.9	1159.3	1076.3	1025.0	1000.9	973.0	915.4	893.2	898.3	899.6
47.5°	1068.7	1142.8	1106.7	1014.2	979.4	955.3	893.2	858.4	855.2	862.2	866.0
50°	1031.9	1108.0	1051.0	957.8	930.0	901.5	831.1	813.4	817.2	824.2	828.6
52.5°	997.7	1068.7	993.3	905.3	881.2	815.9	768.4	771.6	777.9	786.2	788.7
55°	955.9	1021.2	931.9	852.0	829.2	743.7	722.2	729.8	736.1	743.1	748.1
57.5°	912.2	966.7	859.0	792.5	755.7	679.7	681.6	686.7	691.1	699.4	288.9
60°	862.2	904.6	779.2	737.4	664.5	629.1	631.0	639.8	644.3	359.8	198.9
62.5°	810.2	832.4	707.0	674.7	580.9	578.4	587.2	591.0	402.3	190.0	186.2
65°	750.7	746.2	636.0	584.7	523.9	526.4	535.9	516.9	178.0	178.0	176.7
67.5°	684.8	658.2	567.0	484.0	468.8	474.5	484.6	169.1	164.7	166.0	161.5
70°	609.4	572.0	495.4	409.9	414.9	420.6	163.4	153.3	151.4	148.2	139.4
72.5°	529.6	478.3	405.4	356.0	359.2	225.5	143.2	138.1	131.8	125.4	115.9
75°	440.3	373.8	297.7	297.7	302.2	128.6	124.8	116.6	109.6	101.4	95.7
77.5°	345.3	287.6	231.2	240.1	117.2	107.7	100.7	91.9	86.2	81.1	77.9
80°	252.8	200.8	174.2	155.8	91.2	81.7	74.8	69.7	67.1	64.0	60.2
82.5°	166.0	121.0	121.0	73.5	64.0	56.4	54.5	50.7	48.1	46.2	44.3
85°	79.2	70.3	53.2	45.0	39.9	36.1	34.8	32.9	32.9	32.3	31.7
87.5°	29.1	31.7	23.4	22.8	21.5	20.9	21.5	21.5	22.2	21.5	20.9
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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3
2.5°	1427.9	1432.9	1436.7	1443.1	1451.3	1458.3	1464.6	1473.5	1487.4	1491.2	1494.4
5°	1470.3	1472.2	1476.7	1481.7	1483.0	1486.2	1485.5	1489.3	1491.2	1495.7	1486.2
7.5°	1472.9	1462.7	1450.7	1439.9	1432.3	1425.3	1420.9	1427.9	1431.7	1434.8	1425.3
10°	1419.6	1407.6	1400.6	1394.3	1386.7	1375.9	1361.4	1364.5	1363.3	1363.3	1360.1
12.5°	1386.1	1369.0	1351.2	1335.4	1328.4	1327.8	1328.4	1335.4	1335.4	1334.8	1331.0
15°	1333.5	1317.0	1308.2	1304.3	1304.3	1302.4	1302.4	1310.1	1308.2	1308.2	1306.2
17.5°	1298.6	1287.2	1280.9	1276.5	1274.6	1277.7	1281.5	1284.7	1285.3	1282.8	1272.7
20°	1270.1	1259.4	1251.8	1253.0	1252.4	1254.3	1256.2	1245.4	1232.1	1214.4	1206.2
22.5°	1240.4	1232.1	1226.4	1226.4	1218.8	1206.8	1189.1	1185.3	1183.4	1175.1	1168.1
25°	1211.9	1202.4	1194.1	1168.8	1152.9	1154.8	1151.7	1145.3	1144.7	1144.1	1146.6
27.5°	1183.4	1158.6	1127.0	1123.2	1116.8	1116.2	1120.0	1123.2	1123.2	1125.7	1128.9
30°	1124.4	1095.9	1090.2	1083.3	1085.8	1094.7	1096.6	1101.0	1102.3	1106.7	1109.2
32.5°	1070.6	1057.9	1052.9	1056.0	1064.3	1071.9	1076.3	1078.2	1081.4	1085.2	1088.3
35°	1026.9	1023.1	1027.5	1034.5	1042.7	1049.1	1052.9	1056.7	1059.8	1063.0	1065.5
37.5°	994.6	997.1	1003.4	1012.3	1020.5	1025.6	1028.8	1033.2	1037.7	1041.5	1026.2
40°	964.2	970.5	977.5	987.0	993.9	999.0	1002.2	1007.9	969.9	439.0	240.7
42.5°	937.6	944.5	949.6	957.2	964.8	968.6	940.7	420.0	237.6	236.3	239.5
45°	905.3	911.0	919.2	924.9	931.9	611.9	233.8	236.3	232.5	235.0	236.3
47.5°	872.3	881.2	885.6	845.1	251.5	232.5	230.0	232.5	230.0	233.1	231.2
50°	834.9	845.7	601.8	227.4	225.5	224.3	226.8	225.5	227.4	230.0	224.9
52.5°	796.9	493.5	220.5	219.2	220.5	219.2	223.6	220.5	221.1	218.6	212.2
55°	269.9	213.5	211.6	211.0	214.8	214.8	214.8	209.7	206.5	200.2	195.7
57.5°	206.5	206.5	205.9	206.5	205.2	204.0	198.3	193.8	189.4	180.5	178.0
60°	195.7	195.7	195.7	195.7	190.0	187.5	178.6	174.8	167.2	162.8	160.3
62.5°	186.9	185.6	179.9	178.0	171.7	164.7	159.6	155.8	148.2	145.7	143.8
65°	174.2	169.8	162.8	155.2	152.0	144.4	141.9	136.2	132.4	130.5	129.2
67.5°	153.3	147.0	141.3	136.2	130.5	128.0	124.8	120.4	117.8	116.6	115.3
70°	131.1	126.7	121.0	117.8	114.0	112.1	107.7	106.4	104.5	102.6	100.7
72.5°	109.6	107.1	104.5	100.1	98.8	97.6	93.1	90.6	88.1	85.5	84.3
75°	91.9	90.0	88.7	84.9	83.0	79.2	76.0	74.1	72.2	70.3	69.1
77.5°	75.4	74.1	70.3	67.8	66.5	63.3	62.1	62.7	61.4	58.9	57.6
80°	58.9	57.6	54.5	54.5	53.2	51.9	50.7	49.4	48.1	46.2	45.0
82.5°	45.0	43.7	42.4	41.2	39.9	39.3	38.6	37.4	36.1	34.8	34.2
85°	31.7	31.0	30.4	29.8	29.1	28.5	27.9	26.6	25.3	24.7	24.1
87.5°	21.5	20.9	20.3	19.6	19.0	18.4	17.7	17.1	15.8	15.2	14.6
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°	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3
2.5°	1494.4	1497.6	1494.4	1487.4	1483.0	1481.1	1484.9	1484.9	1487.4	1490.6	1491.2
5°	1471.0	1463.4	1454.5	1445.6	1441.2	1438.6	1431.7	1432.9	1434.8	1436.1	1437.4
7.5°	1412.7	1402.5	1390.5	1379.1	1374.7	1370.9	1362.6	1362.6	1362.6	1363.3	1367.1
10°	1353.1	1348.7	1343.6	1336.0	1330.3	1328.4	1321.5	1323.4	1322.1	1324.0	1328.4
12.5°	1325.3	1320.2	1315.8	1308.2	1301.8	1299.3	1296.1	1298.0	1297.4	1300.5	1304.3
15°	1299.9	1297.4	1292.3	1286.6	1280.9	1275.8	1264.4	1260.6	1258.1	1254.9	1259.4
17.5°	1258.1	1240.4	1228.3	1219.5	1213.1	1208.7	1205.5	1205.5	1207.4	1209.3	1213.1
20°	1201.1	1196.0	1190.3	1180.8	1174.5	1172.0	1170.0	1170.0	1173.2	1175.8	1182.7
22.5°	1161.8	1161.2	1159.3	1154.8	1151.7	1151.7	1152.3	1153.6	1158.0	1161.8	1168.8
25°	1143.4	1146.0	1144.7	1142.2	1140.3	1140.9	1139.6	1140.9	1145.3	1149.1	1154.8
27.5°	1128.9	1132.7	1131.4	1127.6	1124.4	1125.7	1127.6	1126.3	1130.1	1134.6	1139.0
30°	1109.2	1109.9	1112.4	1108.0	1106.7	1108.6	1109.2	1110.5	1114.3	1117.5	1121.3
32.5°	1087.1	1092.1	1091.5	1087.1	1087.1	1089.0	1089.6	1047.2	968.0	833.7	796.9
35°	1065.5	1071.2	1061.7	895.1	619.5	330.7	255.3	246.4	248.3	249.6	250.9
37.5°	788.1	373.8	238.2	240.1	242.0	243.9	245.8	247.7	249.6	251.5	252.1
40°	236.9	236.3	238.2	240.7	242.6	243.9	246.4	248.3	250.2	252.1	252.8
42.5°	234.4	235.7	237.6	240.1	242.6	245.2	247.1	249.6	250.9	252.1	252.8
45°	233.1	235.7	238.2	240.1	242.0	243.3	244.5	245.2	244.5	244.5	245.8
47.5°	231.2	233.8	234.4	233.8	234.4	233.8	233.8	233.8	231.9	231.2	231.2
50°	224.3	224.3	223.0	220.5	219.8	219.2	217.9	217.3	214.8	214.1	214.1
52.5°	209.7	209.1	207.2	204.0	202.7	201.4	200.8	200.2	197.6	196.4	197.0
55°	192.6	191.3	189.4	185.6	185.0	183.7	183.1	182.4	179.9	181.2	179.3
57.5°	176.7	174.2	171.7	171.0	168.5	167.9	167.2	166.6	164.7	165.3	164.1
60°	157.7	157.1	155.8	153.3	153.3	152.7	152.7	151.4	150.1	149.5	149.5
62.5°	143.8	141.9	140.6	140.6	138.7	138.7	138.7	137.5	136.2	136.8	136.2
65°	128.6	128.0	127.3	126.1	126.1	125.4	125.4	124.2	122.3	122.9	121.6
67.5°	115.9	114.7	113.4	112.8	110.2	109.0	108.3	107.7	105.2	105.8	104.5
70°	100.1	98.2	96.9	95.7	93.8	92.5	92.5	91.2	89.3	90.0	88.7
72.5°	83.6	82.4	81.1	80.5	78.6	77.9	77.3	76.7	74.8	75.4	74.8
75°	69.7	69.7	69.1	68.4	66.5	64.6	63.3	62.7	61.4	62.1	60.8
77.5°	57.6	56.4	55.1	55.1	53.2	51.9	50.7	50.7	50.7	50.0	49.4
80°	45.0	43.7	43.7	43.1	41.8	40.5	39.9	39.9	39.3	39.3	38.6
82.5°	34.2	32.9	32.3	32.3	31.0	30.4	29.8	29.1	29.1	29.1	28.5
85°	24.1	22.8	22.2	22.2	20.9	20.3	20.3	19.6	19.6	19.0	19.0
87.5°	14.6	13.9	13.3	13.3	12.0	11.4	11.4	11.4	10.8	10.8	10.1
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: P1213046

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3
2.5°	1491.2	1491.2	1486.8	1488.1	1486.2	1488.7	1485.5	1485.5	1489.3	1489.3	1491.9
5°	1438.0	1434.8	1434.2	1432.9	1426.6	1429.1	1426.0	1422.8	1427.2	1427.2	1432.9
7.5°	1365.2	1359.5	1362.0	1358.2	1354.4	1348.7	1350.6	1348.1	1351.2	1355.7	1361.4
10°	1327.8	1322.7	1325.9	1322.1	1324.0	1315.8	1316.4	1317.0	1320.2	1321.5	1326.5
12.5°	1303.7	1302.4	1301.2	1299.9	1301.2	1296.7	1294.2	1294.8	1296.1	1296.7	1300.5
15°	1253.0	1244.8	1247.3	1238.5	1239.1	1239.7	1234.7	1239.7	1239.1	1247.3	1254.9
17.5°	1211.9	1211.9	1207.4	1203.6	1201.1	1200.5	1196.7	1199.2	1196.7	1201.7	1203.6
20°	1183.4	1182.7	1182.1	1180.2	1173.9	1174.5	1176.4	1170.7	1170.0	1169.4	1173.2
22.5°	1170.0	1170.7	1168.1	1168.1	1162.4	1163.7	1164.3	1158.0	1158.6	1156.7	1158.6
25°	1156.1	1157.4	1154.2	1154.2	1152.9	1152.3	1149.1	1150.4	1146.6	1143.4	1146.6
27.5°	1139.6	1142.2	1139.6	1140.9	1138.4	1137.1	1135.2	1133.9	1130.1	1129.5	1131.4
30°	1124.4	1125.7	1125.1	1121.9	1121.3	1117.5	1119.4	1115.6	1111.8	1112.4	1113.7
32.5°	576.5	550.5	424.4	383.3	379.5	393.4	466.2	567.6	735.5	898.3	1015.5
35°	251.5	251.5	251.5	250.9	250.9	250.2	249.6	249.0	248.3	247.7	247.1
37.5°	252.8	252.8	252.8	252.8	252.1	251.5	251.5	250.2	249.6	249.0	248.3
40°	253.4	254.0	254.0	254.0	253.4	253.4	252.8	251.5	250.9	249.6	248.3
42.5°	252.8	253.4	253.4	252.8	252.8	252.1	252.1	251.5	250.9	250.2	249.6
45°	244.5	245.2	243.9	243.9	243.3	243.3	243.3	243.3	243.3	243.9	243.9
47.5°	230.0	230.0	229.3	228.7	228.7	228.1	228.7	228.1	229.3	230.0	231.2
50°	212.9	212.9	211.6	211.0	211.0	211.0	211.0	211.6	212.2	213.5	214.8
52.5°	195.1	195.1	194.5	193.8	193.2	193.2	195.1	194.5	195.1	195.7	197.6
55°	178.0	178.6	177.4	177.4	176.7	176.7	176.7	177.4	178.0	178.6	180.5
57.5°	163.4	163.4	162.2	162.2	162.2	161.5	163.4	162.2	162.8	163.4	164.7
60°	148.9	148.2	148.2	147.6	147.6	147.6	148.9	148.2	148.2	148.9	150.1
62.5°	135.6	135.6	134.9	134.9	134.3	134.3	135.6	134.9	134.9	135.6	136.2
65°	120.4	120.4	119.7	119.1	121.0	119.1	121.0	119.7	121.0	121.6	122.9
67.5°	103.3	103.3	103.3	102.6	102.6	103.9	104.5	103.3	103.9	105.2	105.8
70°	88.1	88.1	87.4	87.4	87.4	88.7	89.3	88.1	88.7	89.3	90.6
72.5°	74.8	73.5	73.5	72.9	74.1	74.1	74.8	74.1	74.8	74.8	76.0
75°	61.4	60.2	60.2	60.2	61.4	60.8	61.4	60.8	61.4	61.4	62.1
77.5°	49.4	48.8	48.1	48.1	49.4	49.4	49.4	48.8	49.4	50.0	50.7
80°	38.6	38.0	37.4	37.4	38.6	38.6	38.6	39.3	38.6	39.3	39.9
82.5°	28.5	27.9	27.2	28.5	28.5	28.5	28.5	29.1	28.5	29.1	29.8
85°	19.0	18.4	17.7	19.0	19.0	19.0	19.0	19.6	19.0	19.6	20.3
87.5°	10.1	9.5	9.5	10.1	10.1	10.1	10.8	10.8	10.8	11.4	11.4
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: P1213046

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3
2.5°	1495.7	1497.6	1496.9	1493.1	1489.3	1484.9	1481.7	1482.4	1488.7	1490.6	1484.9
5°	1432.9	1445.0	1445.0	1453.2	1448.8	1445.0	1447.5	1461.5	1468.4	1479.2	1483.0
7.5°	1368.3	1374.0	1373.4	1381.6	1380.4	1380.4	1382.3	1400.6	1409.5	1418.4	1420.9
10°	1332.2	1337.9	1337.3	1337.9	1336.0	1331.6	1331.6	1339.8	1347.4	1351.9	1353.1
12.5°	1306.2	1309.4	1308.8	1308.8	1307.5	1303.7	1303.1	1310.1	1318.3	1324.0	1324.6
15°	1267.6	1276.5	1278.4	1286.6	1284.7	1279.6	1280.9	1286.6	1291.7	1296.7	1294.8
17.5°	1210.0	1214.4	1215.0	1218.2	1216.9	1216.9	1224.5	1245.4	1259.4	1271.4	1272.7
20°	1177.0	1180.2	1178.9	1185.9	1182.7	1182.1	1184.0	1192.9	1199.2	1204.9	1215.0
22.5°	1161.2	1163.7	1161.8	1162.4	1156.7	1151.7	1150.4	1157.4	1164.3	1172.0	1172.0
25°	1147.9	1149.8	1149.1	1147.9	1143.4	1136.5	1135.2	1136.5	1139.0	1139.6	1135.2
27.5°	1132.0	1133.3	1133.3	1133.9	1128.2	1121.9	1120.6	1119.4	1121.9	1121.3	1114.3
30°	1115.6	1113.7	1114.3	1114.9	1109.9	1104.2	1101.6	1101.0	1103.5	1102.9	1095.9
32.5°	1076.3	1090.9	1092.1	1093.4	1089.0	1083.9	1081.4	1079.5	1080.7	1080.1	1073.8
35°	246.4	250.9	307.2	695.6	944.5	1045.9	1056.7	1054.1	1054.8	1054.8	1049.7
37.5°	247.1	246.4	245.8	243.9	242.0	240.7	416.2	887.5	1028.1	1028.8	1024.3
40°	247.1	246.4	245.8	244.5	242.0	240.1	236.9	234.4	240.1	528.3	966.7
42.5°	248.3	247.1	245.8	244.5	242.0	239.5	236.9	233.8	235.7	234.4	231.2
45°	244.5	243.9	243.9	243.3	242.0	239.5	236.3	232.5	230.6	232.5	229.3
47.5°	232.5	233.1	235.0	235.7	235.7	236.3	234.4	231.9	228.7	230.6	226.8
50°	216.0	217.3	217.9	221.1	222.4	224.9	225.5	225.5	224.9	227.4	224.9
52.5°	198.3	199.5	202.7	204.0	205.2	209.1	210.3	212.2	213.5	217.3	219.8
55°	181.2	181.8	183.1	185.6	187.5	190.7	192.6	194.5	197.6	199.5	207.2
57.5°	165.3	166.0	168.5	169.1	170.4	172.9	174.8	177.4	179.9	181.2	190.0
60°	150.1	150.8	152.7	153.3	153.9	156.5	158.4	160.3	162.2	163.4	169.8
62.5°	136.8	136.8	138.7	138.7	139.4	141.3	142.5	143.8	145.7	146.3	149.5
65°	123.5	124.2	125.4	125.4	126.1	127.3	128.0	128.6	130.5	130.5	133.0
67.5°	107.1	107.7	109.6	110.9	111.5	114.0	114.7	115.3	116.6	117.2	118.5
70°	91.2	91.9	93.8	94.4	95.0	96.9	98.2	100.1	102.0	103.9	105.2
72.5°	76.7	77.3	79.2	79.2	81.1	81.7	83.0	83.6	85.5	86.8	88.7
75°	62.7	63.3	65.2	65.2	67.1	67.8	68.4	69.1	70.3	71.6	72.9
77.5°	51.3	51.3	53.8	55.1	56.4	56.4	57.0	57.0	57.0	57.6	58.9
80°	40.5	40.5	42.4	43.7	45.0	45.0	45.6	46.2	46.9	46.9	47.5
82.5°	30.4	30.4	32.3	32.9	34.2	34.2	34.2	34.8	35.5	34.8	36.1
85°	20.9	20.9	22.2	22.8	24.1	24.1	24.1	24.7	25.3	24.7	25.3
87.5°	12.0	12.7	13.3	13.9	14.6	15.2	15.2	15.2	15.8	15.8	16.5
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: P1213046

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3
2.5°	1478.6	1471.0	1470.3	1461.5	1458.9	1459.6	1452.6	1450.1	1438.6	1436.1	1424.1
5°	1484.3	1488.1	1486.2	1485.5	1487.4	1486.2	1481.1	1478.6	1476.7	1471.6	1461.5
7.5°	1421.5	1424.1	1426.0	1434.2	1441.2	1453.2	1465.9	1474.1	1480.5	1481.7	1473.5
10°	1357.6	1369.6	1377.8	1390.5	1400.6	1407.6	1415.2	1422.2	1440.5	1458.9	1469.7
12.5°	1324.6	1327.8	1327.2	1334.1	1341.1	1359.5	1377.2	1387.3	1401.3	1409.5	1429.1
15°	1296.7	1297.4	1299.3	1304.3	1308.2	1314.5	1322.7	1337.9	1365.8	1378.5	1389.2
17.5°	1271.4	1271.4	1272.7	1277.1	1282.2	1287.9	1292.9	1299.3	1313.2	1334.1	1360.7
20°	1230.9	1248.6	1250.5	1249.9	1252.4	1263.2	1264.4	1275.8	1282.8	1291.0	1317.0
22.5°	1170.7	1181.5	1196.7	1220.1	1229.0	1234.0	1237.8	1242.9	1253.7	1263.2	1273.9
25°	1137.7	1144.7	1149.1	1156.1	1174.5	1204.3	1210.0	1215.7	1222.6	1229.6	1242.9
27.5°	1108.6	1108.0	1111.1	1117.5	1122.5	1138.4	1166.2	1188.4	1189.7	1199.8	1211.2
30°	1087.7	1083.9	1079.5	1078.2	1085.2	1093.4	1101.6	1136.5	1160.5	1165.6	1177.7
32.5°	1068.1	1061.7	1055.4	1050.3	1045.9	1052.9	1057.9	1073.1	1104.2	1133.3	1139.6
35°	1044.0	1037.7	1030.0	1024.3	1017.4	1016.7	1016.1	1030.7	1040.8	1075.7	1106.1
37.5°	1019.3	1012.3	1006.0	999.6	992.7	987.6	984.4	988.2	997.7	1012.9	1063.6
40°	993.3	985.1	978.7	973.7	964.2	960.4	954.0	951.5	952.1	965.4	992.0
42.5°	593.6	946.4	949.6	943.9	935.7	930.6	923.6	920.5	914.1	920.5	935.7
45°	228.7	231.2	692.4	914.8	904.6	898.3	891.9	888.8	881.8	876.7	890.7
47.5°	224.3	226.8	221.7	314.2	863.4	865.3	857.7	854.6	847.6	843.8	840.0
50°	221.1	223.0	219.2	220.5	216.0	791.2	822.9	819.1	811.5	807.1	799.5
52.5°	217.9	217.9	215.4	212.2	211.0	211.6	665.8	783.0	774.1	769.7	759.6
55°	207.8	209.1	211.6	206.5	205.2	204.6	202.7	634.1	732.9	727.9	719.0
57.5°	192.6	195.1	202.1	200.8	200.8	195.7	194.5	194.5	588.5	685.4	676.6
60°	174.8	177.4	185.0	187.5	189.4	188.1	186.9	186.2	183.7	620.2	631.6
62.5°	156.5	159.0	161.5	169.8	172.3	175.5	179.3	177.4	174.8	174.8	584.1
65°	136.8	140.6	141.9	149.5	152.7	158.4	161.5	166.0	164.7	164.1	167.2
67.5°	119.7	124.2	124.8	128.0	133.7	136.2	140.0	148.2	152.0	153.3	154.6
70°	105.2	107.7	109.6	110.9	114.7	115.3	122.3	128.0	133.7	140.0	141.9
72.5°	90.6	92.5	96.3	95.0	96.3	98.8	102.6	106.4	112.1	121.0	126.7
75°	74.1	75.4	77.9	79.2	81.7	83.6	86.2	89.3	94.4	98.8	106.4
77.5°	59.5	60.2	62.1	62.7	65.2	67.1	71.6	73.5	76.7	79.8	84.3
80°	48.1	48.1	48.8	48.8	50.7	52.6	55.7	57.6	61.4	64.0	64.0
82.5°	36.7	36.7	38.6	38.6	39.9	39.9	41.8	41.8	43.7	45.0	46.2
85°	26.0	26.6	27.9	27.2	28.5	27.9	29.1	30.4	31.0	30.4	29.8
87.5°	17.1	17.1	18.4	17.7	18.4	18.4	19.6	19.6	20.3	20.3	19.6
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: P1213046

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3
2.5°	1419.6	1410.1	1404.4	1397.5	1395.6	1393.7	1396.2	1396.2	1392.4	1389.2	1383.5
5°	1452.6	1442.4	1431.7	1420.3	1409.5	1398.1	1393.7	1393.0	1386.1	1382.3	1380.4
7.5°	1469.7	1464.6	1452.6	1436.7	1420.3	1400.0	1391.1	1386.1	1379.1	1377.8	1377.8
10°	1471.6	1465.9	1459.6	1448.2	1429.1	1402.5	1385.4	1375.3	1369.0	1373.4	1381.6
12.5°	1453.2	1464.0	1458.3	1450.7	1435.5	1403.2	1378.5	1363.3	1361.4	1372.8	1394.3
15°	1406.3	1438.0	1453.9	1446.3	1434.2	1401.9	1367.1	1349.3	1349.3	1372.8	1400.6
17.5°	1370.9	1395.6	1434.2	1440.5	1426.6	1399.4	1356.3	1335.4	1341.1	1375.3	1405.1
20°	1341.7	1356.9	1394.3	1429.8	1416.5	1393.7	1340.5	1318.9	1330.3	1371.5	1411.4
22.5°	1296.1	1326.5	1349.3	1401.9	1406.3	1382.9	1324.6	1298.6	1321.5	1371.5	1408.2
25°	1251.8	1288.5	1312.6	1363.9	1391.1	1369.6	1310.1	1277.1	1312.0	1369.6	1405.7
27.5°	1220.7	1237.8	1281.5	1318.3	1368.3	1351.9	1290.4	1253.7	1299.9	1359.5	1391.1
30°	1187.8	1199.2	1242.3	1277.1	1337.9	1331.6	1270.1	1227.7	1284.7	1350.0	1353.1
32.5°	1151.7	1164.3	1186.5	1237.2	1295.5	1312.6	1247.3	1201.7	1268.2	1335.4	1308.8
35°	1114.9	1124.4	1142.2	1196.7	1246.1	1284.1	1219.5	1172.0	1256.8	1313.2	1266.3
37.5°	1078.2	1088.3	1103.5	1149.1	1194.1	1257.5	1195.4	1142.2	1235.9	1273.9	1222.0
40°	1043.4	1049.1	1064.9	1093.4	1151.0	1230.2	1168.1	1111.1	1214.4	1223.9	1161.8
42.5°	979.4	1007.9	1022.4	1045.3	1102.3	1192.9	1136.5	1078.2	1190.3	1173.9	1101.6
45°	910.3	972.4	978.7	1001.5	1059.2	1152.9	1106.7	1045.9	1167.5	1130.8	1044.6
47.5°	853.9	898.9	935.7	954.7	1007.9	1106.1	1078.8	1018.6	1133.3	1076.3	988.9
50°	803.9	828.0	894.5	908.4	946.4	1049.7	1045.9	987.0	1085.8	1007.9	934.4
52.5°	755.1	772.2	832.4	862.2	893.2	988.9	1006.6	955.9	1033.9	939.5	879.3
55°	712.7	718.4	751.3	814.0	841.9	927.4	963.5	919.8	968.0	874.2	826.1
57.5°	669.0	663.9	688.0	768.4	788.7	864.7	917.9	883.1	914.8	807.7	771.0
60°	623.4	616.4	626.5	679.7	732.3	802.6	864.1	842.5	850.1	741.8	709.5
62.5°	575.8	568.9	565.7	599.3	677.2	738.6	809.6	797.6	771.0	681.6	633.5
65°	526.4	519.5	514.4	527.7	616.4	655.7	748.8	745.6	684.2	618.3	533.4
67.5°	160.3	472.6	461.8	461.2	519.5	580.3	682.9	677.8	596.7	550.5	459.3
70°	144.4	383.3	407.3	401.6	427.0	503.6	607.5	603.7	511.9	441.5	406.1
72.5°	132.4	135.6	359.8	353.5	359.2	428.2	529.0	518.8	433.9	348.4	351.0
75°	113.4	119.1	124.2	298.4	290.8	354.8	443.4	427.6	357.9	287.6	293.3
77.5°	92.5	99.5	103.3	217.3	235.0	252.8	354.1	333.2	246.4	230.0	109.6
80°	69.1	74.8	81.1	86.8	178.6	176.7	262.9	242.0	171.7	143.2	85.5
82.5°	50.7	52.6	56.4	62.7	71.0	118.5	169.1	148.9	119.1	65.2	58.9
85°	31.7	34.2	36.1	38.0	43.1	71.0	83.6	66.5	50.0	39.9	37.4
87.5°	20.3	20.3	19.6	20.3	20.9	25.3	28.5	27.2	21.5	20.3	20.3
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: P1213046

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3
2.5°	1377.2	1368.3	1368.3	1365.8	1367.7	1367.7	1367.1	1367.7	1372.1	1374.7	1379.1
5°	1376.6	1374.0	1379.7	1386.7	1394.9	1405.1	1407.6	1416.5	1424.7	1435.5	1446.9
7.5°	1384.8	1393.7	1404.4	1415.8	1432.3	1444.3	1455.1	1465.9	1473.5	1483.6	1490.0
10°	1396.8	1414.6	1432.9	1447.5	1465.3	1475.4	1482.4	1483.6	1472.9	1455.8	1441.8
12.5°	1413.9	1434.8	1452.0	1465.9	1474.1	1470.3	1450.1	1429.1	1417.1	1399.4	1374.7
15°	1428.5	1447.5	1465.3	1459.6	1437.4	1416.5	1400.6	1375.9	1351.9	1335.4	1324.6
17.5°	1434.8	1453.2	1446.9	1417.1	1396.2	1372.1	1339.8	1320.8	1305.0	1292.3	1286.0
20°	1438.6	1435.5	1401.3	1379.7	1339.2	1317.0	1296.1	1278.4	1266.3	1260.0	1258.7
22.5°	1428.5	1389.9	1360.7	1322.1	1292.3	1273.9	1257.5	1242.9	1234.7	1229.6	1226.4
25°	1394.9	1350.0	1306.9	1276.5	1251.1	1235.3	1222.6	1210.6	1200.5	1197.9	1191.6
27.5°	1348.1	1311.3	1254.3	1230.9	1208.7	1201.1	1187.2	1175.1	1166.2	1158.6	1138.4
30°	1309.4	1251.1	1210.0	1188.4	1175.1	1166.2	1150.4	1137.7	1122.5	1094.7	1083.3
32.5°	1261.9	1204.3	1165.0	1152.9	1136.5	1128.9	1111.1	1083.3	1059.8	1048.4	1047.8
35°	1200.5	1152.9	1124.4	1113.7	1100.4	1087.7	1051.0	1025.6	1014.2	1015.5	1025.0
37.5°	1149.1	1106.7	1088.3	1073.1	1057.9	1025.6	994.6	982.5	985.7	992.0	996.5
40°	1097.2	1064.9	1044.0	1031.9	997.7	966.1	949.6	954.0	959.7	964.2	969.9
42.5°	1046.5	1023.7	1002.8	979.4	932.5	915.4	919.2	924.9	930.0	936.3	942.0
45°	998.4	978.1	954.0	900.8	877.4	881.8	887.5	891.9	899.6	904.0	909.7
47.5°	952.8	931.2	888.8	841.9	839.4	848.2	853.3	859.0	864.7	853.3	470.7
50°	901.5	879.3	814.7	796.9	802.6	810.9	817.2	822.9	732.9	291.4	224.3
52.5°	850.8	794.4	753.2	758.3	764.0	773.5	777.9	577.7	230.0	219.2	219.8
55°	794.4	722.2	710.1	716.5	721.5	731.0	484.6	212.2	211.0	210.3	215.4
57.5°	705.7	662.0	667.1	673.4	678.5	478.9	206.5	205.2	205.9	206.5	207.2
60°	626.5	617.0	622.7	628.4	444.7	199.5	195.7	196.4	198.9	197.0	191.9
62.5°	563.8	571.4	577.1	505.5	189.4	187.5	189.4	187.5	183.1	179.9	173.6
65°	515.7	523.3	527.7	178.0	177.4	179.9	178.0	171.7	164.7	155.8	153.9
67.5°	465.0	472.6	169.1	164.7	167.2	164.1	156.5	148.9	143.8	136.2	133.0
70°	412.4	176.7	153.3	152.7	148.2	143.2	134.9	127.3	121.0	117.8	114.7
72.5°	297.7	140.0	138.1	133.0	125.4	118.5	111.5	107.1	103.9	102.0	100.1
75°	124.2	121.6	115.9	107.1	99.5	96.3	91.2	88.1	86.8	83.0	81.7
77.5°	103.9	98.8	90.6	84.3	79.8	77.9	74.1	70.3	68.4	67.8	65.2
80°	79.8	72.9	69.1	65.9	64.6	60.2	55.7	53.8	52.6	51.9	50.0
82.5°	54.5	51.9	49.4	45.0	45.0	43.1	41.2	39.9	38.6	38.6	37.4
85°	35.5	33.6	32.9	31.0	31.0	29.8	29.1	28.5	27.9	27.2	26.6
87.5°	20.3	20.3	20.9	20.3	20.3	19.6	19.0	18.4	17.7	17.7	16.5
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: P1213046

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3
2.5°	1384.8	1391.1	1392.4	1413.9	1426.0	1425.3	1421.5	1432.9	1426.0	1422.2	1426.0
5°	1458.3	1465.9	1472.2	1495.7	1503.9	1507.7	1507.1	1513.4	1508.3	1503.9	1503.9
7.5°	1494.4	1496.9	1499.5	1493.8	1490.0	1483.6	1474.1	1460.2	1453.2	1445.6	1436.1
10°	1434.8	1426.6	1429.8	1418.4	1408.9	1401.9	1393.0	1381.6	1372.1	1365.2	1354.4
12.5°	1362.0	1361.4	1362.6	1364.5	1355.0	1349.3	1342.4	1334.1	1327.2	1319.6	1310.7
15°	1317.7	1318.3	1323.4	1321.5	1318.3	1315.1	1307.5	1305.0	1298.6	1290.4	1285.3
17.5°	1286.0	1289.1	1294.2	1291.7	1286.6	1283.4	1277.7	1272.0	1266.3	1260.0	1252.4
20°	1258.1	1261.3	1264.4	1261.3	1251.8	1247.3	1239.7	1222.0	1209.3	1196.7	1185.3
22.5°	1227.7	1229.6	1227.1	1216.9	1192.9	1181.5	1172.6	1167.5	1156.7	1149.8	1142.8
25°	1189.7	1178.9	1162.4	1151.0	1141.5	1136.5	1132.7	1132.0	1130.8	1129.5	1126.3
27.5°	1127.6	1123.8	1114.9	1110.5	1111.1	1113.0	1113.7	1115.6	1113.7	1111.1	1108.6
30°	1081.4	1083.3	1083.9	1085.2	1088.3	1090.2	1090.9	1093.4	1092.1	1090.2	1089.0
32.5°	1052.2	1056.7	1059.2	1063.0	1064.9	1068.1	1068.1	1071.9	1068.1	1067.4	1066.2
35°	1028.1	1031.9	1033.2	1038.9	1040.8	1044.0	1044.0	1047.2	1044.0	1011.7	798.8
37.5°	1004.1	1007.9	1010.4	1015.5	1016.1	1018.0	939.5	687.3	443.4	343.3	262.3
40°	975.6	980.0	982.5	984.4	691.8	439.0	302.2	245.8	245.8	247.7	249.6
42.5°	945.2	948.3	660.7	384.5	239.5	238.8	240.7	242.6	244.5	247.1	249.6
45°	743.1	375.0	238.2	232.5	234.4	236.9	239.5	242.0	245.2	247.7	249.0
47.5°	243.9	228.7	231.9	229.3	232.5	235.7	238.2	240.7	241.4	242.0	241.4
50°	225.5	225.5	227.4	227.4	230.0	231.2	231.2	231.2	228.7	228.1	226.2
52.5°	217.9	223.0	220.5	221.7	220.5	218.6	216.7	214.8	211.0	209.7	207.2
55°	214.1	216.0	209.7	207.8	205.2	200.2	197.6	195.1	191.9	190.7	187.5
57.5°	205.2	200.8	193.8	190.7	186.2	181.2	178.6	176.7	173.6	172.3	170.4
60°	188.8	179.9	175.5	171.7	166.6	162.2	160.3	159.0	156.5	155.8	153.9
62.5°	168.5	160.9	157.1	152.0	148.2	145.7	143.8	143.2	140.6	140.6	139.4
65°	146.3	142.5	139.4	134.3	132.4	129.9	129.2	128.6	127.3	126.7	125.4
67.5°	128.6	126.1	121.6	119.1	117.8	115.9	114.7	113.4	110.9	109.6	107.7
70°	112.8	110.9	106.4	104.5	102.0	98.8	96.9	95.7	93.8	92.5	90.6
72.5°	97.6	91.9	88.7	86.8	84.9	81.7	81.1	79.8	77.9	77.3	75.4
75°	78.6	74.1	72.2	71.0	69.1	67.1	67.1	67.1	65.2	64.6	64.0
77.5°	62.7	60.2	58.9	57.6	57.0	55.7	53.8	53.2	51.3	51.3	50.7
80°	48.1	46.9	45.6	45.0	44.3	43.1	41.8	41.2	39.3	39.3	38.6
82.5°	35.5	34.8	34.2	33.6	32.9	32.3	30.4	29.8	28.5	28.5	27.9
85°	25.3	24.7	23.4	22.8	22.8	22.2	20.3	19.6	18.4	18.4	18.4
87.5°	15.8	15.2	14.6	13.9	13.3	12.7	11.4	10.8	10.8	9.5	8.9
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: P1213046

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3
2.5°	1418.4	1429.1	1427.9	1435.5	1437.4	1441.2	1442.4	1443.1	1433.6	1441.2	1441.8
5°	1502.0	1503.9	1505.2	1508.3	1511.5	1512.1	1509.0	1505.2	1506.4	1503.9	1497.6
7.5°	1434.8	1425.3	1423.4	1420.9	1419.6	1418.4	1412.7	1417.7	1412.0	1409.5	1400.6
10°	1352.5	1343.6	1343.0	1343.0	1344.9	1344.3	1343.0	1340.5	1345.5	1342.4	1340.5
12.5°	1309.4	1306.2	1308.2	1306.9	1312.0	1313.2	1312.0	1312.0	1310.7	1308.2	1309.4
15°	1283.4	1280.9	1282.8	1280.9	1284.7	1285.3	1282.2	1284.1	1280.9	1277.7	1276.5
17.5°	1249.2	1243.5	1239.1	1232.8	1233.4	1232.1	1228.3	1228.3	1225.2	1216.9	1217.6
20°	1183.4	1177.7	1175.1	1175.1	1178.3	1179.6	1178.9	1180.2	1177.0	1175.8	1170.7
22.5°	1142.2	1141.5	1142.8	1146.0	1151.0	1158.0	1158.6	1158.6	1158.6	1158.0	1151.7
25°	1127.6	1127.6	1128.9	1133.3	1137.1	1142.2	1143.4	1144.7	1143.4	1143.4	1137.7
27.5°	1111.1	1109.9	1112.4	1116.8	1121.3	1125.1	1128.2	1128.9	1127.0	1127.0	1128.9
30°	1090.9	1090.2	1093.4	1097.8	1101.6	1105.4	1108.6	1111.1	1108.6	1108.6	1106.7
32.5°	1070.0	1070.0	1071.2	1044.6	968.6	872.3	874.2	818.5	779.8	731.0	795.7
35°	667.7	485.9	417.5	353.5	308.5	279.4	278.7	269.2	264.8	261.6	261.0
37.5°	252.1	253.4	255.9	257.2	259.1	260.4	261.0	261.0	261.0	261.0	260.4
40°	251.5	254.0	255.9	257.8	259.7	261.0	261.0	261.6	262.3	262.3	262.3
42.5°	252.1	254.7	257.2	259.1	260.4	261.0	261.6	262.3	262.3	262.3	262.3
45°	251.5	252.8	252.8	253.4	253.4	253.4	254.0	254.0	253.4	252.8	254.0
47.5°	242.0	242.0	240.1	239.5	238.8	237.6	238.2	237.6	236.9	236.3	237.6
50°	225.5	223.0	221.7	220.5	219.8	218.6	219.2	218.6	217.9	216.7	218.6
52.5°	205.9	205.2	202.7	201.4	200.8	201.4	200.2	199.5	198.9	198.3	198.9
55°	186.9	184.3	183.7	182.4	181.8	182.4	181.8	181.2	180.5	179.9	180.5
57.5°	169.8	167.9	167.2	166.0	166.0	166.0	166.0	165.3	164.7	164.1	164.7
60°	153.3	152.0	151.4	151.4	150.8	150.8	150.8	150.1	149.5	149.5	150.1
62.5°	139.4	139.4	137.5	136.8	136.8	137.5	136.8	136.2	135.6	134.9	136.2
65°	124.8	122.3	121.6	120.4	119.1	119.7	119.1	118.5	117.8	117.2	118.5
67.5°	107.1	106.4	103.9	102.6	102.0	102.6	102.0	101.4	100.7	100.1	101.4
70°	90.0	90.0	87.4	86.8	86.2	86.2	85.5	85.5	84.9	84.3	85.5
72.5°	74.8	74.8	74.1	72.9	72.2	71.6	71.0	70.3	70.3	71.0	71.0
75°	62.1	60.8	58.3	58.9	58.3	57.6	57.6	57.0	56.4	57.6	57.0
77.5°	48.8	48.1	46.2	46.9	46.2	45.6	45.6	45.0	44.3	45.0	45.0
80°	36.7	36.7	36.1	35.5	35.5	34.8	34.2	34.2	33.6	34.2	34.2
82.5°	26.6	26.6	26.0	25.3	24.7	24.7	24.1	24.1	24.1	24.1	24.1
85°	17.1	16.5	16.5	15.2	15.2	15.2	14.6	14.6	14.6	14.6	14.6
87.5°	8.2	8.2	7.6	7.6	7.0	6.3	6.3	5.7	5.7	6.3	6.3
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: P1213046

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3
2.5°	1430.4	1438.6	1431.7	1434.8	1435.5	1446.3	1445.6	1448.2	1443.7	1438.6	1431.7
5°	1503.3	1499.5	1494.4	1506.4	1500.1	1507.7	1510.2	1515.3	1515.3	1514.7	1509.0
7.5°	1410.1	1401.9	1408.2	1412.7	1414.6	1409.5	1419.6	1431.0	1440.5	1446.3	1446.9
10°	1337.3	1339.8	1339.2	1341.1	1345.5	1344.9	1351.2	1357.6	1360.1	1363.9	1365.2
12.5°	1303.1	1302.4	1303.7	1308.2	1310.7	1310.1	1316.4	1320.2	1321.5	1322.1	1321.5
15°	1275.8	1271.4	1274.6	1275.2	1277.1	1277.1	1284.7	1290.4	1292.9	1294.2	1292.9
17.5°	1224.5	1213.8	1223.9	1223.9	1230.9	1229.6	1241.6	1251.1	1256.2	1260.0	1260.0
20°	1173.9	1168.8	1172.6	1171.3	1176.4	1175.8	1183.4	1189.7	1194.1	1197.3	1201.1
22.5°	1153.6	1154.8	1149.1	1149.8	1149.8	1149.1	1152.9	1156.1	1157.4	1159.3	1158.0
25°	1140.3	1141.5	1139.6	1136.5	1135.2	1136.5	1138.4	1142.2	1142.8	1141.5	1137.1
27.5°	1127.0	1123.2	1126.3	1120.6	1119.4	1121.9	1124.4	1125.1	1125.7	1125.7	1121.9
30°	1106.7	1103.5	1106.7	1104.2	1101.6	1104.2	1106.1	1106.1	1107.3	1108.0	1103.5
32.5°	773.5	779.8	882.4	944.5	1031.9	1076.3	1084.5	1084.5	1085.8	1085.8	1082.0
35°	263.5	264.2	285.7	309.8	361.1	424.4	507.4	550.5	696.2	870.4	1038.9
37.5°	260.4	259.7	259.1	258.5	257.8	257.2	255.9	255.3	259.1	307.2	416.8
40°	261.6	261.0	259.7	259.1	258.5	257.2	256.6	255.3	254.0	252.8	251.5
42.5°	261.6	261.0	260.4	259.7	259.1	258.5	257.2	255.9	254.7	252.8	250.9
45°	252.8	252.8	253.4	253.4	254.0	254.0	254.0	253.4	253.4	252.8	250.2
47.5°	236.3	236.3	238.2	238.2	239.5	240.7	240.7	242.0	243.9	245.2	245.8
50°	217.3	217.3	219.2	219.8	221.1	223.0	224.9	225.5	227.4	230.0	232.5
52.5°	198.3	198.3	200.2	200.2	201.4	203.3	205.2	205.9	208.4	211.0	214.1
55°	180.5	180.5	181.8	182.4	183.1	184.3	186.2	186.2	188.8	190.7	193.8
57.5°	164.7	166.0	166.0	166.0	166.6	167.9	169.1	169.1	171.0	172.9	175.5
60°	149.5	150.8	150.8	150.8	151.4	152.0	153.3	153.3	154.6	155.8	158.4
62.5°	135.6	136.8	136.8	137.5	137.5	138.1	139.4	138.7	140.0	140.6	142.5
65°	117.8	119.1	119.7	120.4	121.0	122.3	124.2	123.5	125.4	126.7	128.6
67.5°	100.7	102.0	102.0	102.6	103.3	104.5	105.8	105.8	107.7	109.0	111.5
70°	84.9	86.2	86.2	86.8	87.4	88.7	90.0	89.3	91.2	92.5	94.4
72.5°	70.3	71.6	71.6	72.2	72.2	73.5	74.8	76.0	76.0	77.3	78.6
75°	57.0	57.6	58.3	58.3	58.9	59.5	60.8	62.1	62.7	63.3	64.6
77.5°	45.0	45.6	46.2	46.2	46.9	47.5	48.1	50.7	51.9	52.6	52.6
80°	34.2	34.8	34.8	34.8	35.5	36.1	37.4	37.4	39.9	39.9	40.5
82.5°	24.1	24.7	24.7	24.7	25.3	26.6	27.2	27.9	29.1	29.8	29.8
85°	14.6	15.2	15.2	15.2	15.8	16.5	17.7	18.4	19.0	19.0	19.6
87.5°	5.7	6.3	7.0	7.0	7.6	8.2	8.9	9.5	10.1	10.1	10.8
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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CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3
2.5°	1424.1	1428.5	1424.1	1426.6	1429.8	1424.1	1410.8	1405.7	1403.8	1396.2	1391.1
5°	1503.3	1503.3	1501.4	1506.4	1505.8	1496.9	1483.0	1476.7	1470.3	1462.1	1455.8
7.5°	1446.9	1452.0	1455.1	1474.8	1487.4	1488.7	1497.6	1499.5	1502.0	1499.5	1495.7
10°	1365.8	1363.9	1372.8	1391.1	1401.9	1407.6	1424.7	1432.9	1439.9	1453.9	1468.4
12.5°	1320.2	1322.7	1326.5	1339.8	1350.0	1347.4	1354.4	1360.1	1368.3	1382.3	1403.2
15°	1289.8	1292.3	1296.1	1306.2	1312.6	1309.4	1313.2	1317.0	1322.7	1329.7	1342.4
17.5°	1256.8	1261.3	1265.7	1276.5	1282.2	1281.5	1284.7	1286.0	1287.9	1292.3	1301.2
20°	1205.5	1219.5	1228.3	1242.9	1251.1	1249.9	1255.6	1257.5	1260.0	1264.4	1268.2
22.5°	1158.6	1162.4	1166.9	1182.7	1196.7	1213.8	1217.6	1222.6	1229.0	1233.4	1237.2
25°	1132.0	1129.5	1131.4	1142.2	1149.8	1151.0	1156.7	1173.2	1190.3	1197.9	1206.8
27.5°	1116.2	1113.7	1113.0	1118.1	1119.4	1116.2	1114.9	1120.0	1132.7	1145.3	1172.0
30°	1099.1	1095.9	1093.4	1097.8	1099.7	1095.3	1087.1	1082.6	1090.2	1093.4	1104.2
32.5°	1078.8	1075.7	1074.4	1076.9	1078.2	1074.4	1065.5	1060.5	1059.2	1056.7	1059.2
35°	1056.0	1052.9	1051.0	1051.6	1054.1	1051.0	1043.4	1037.0	1033.9	1026.9	1021.8
37.5°	544.2	771.0	1000.9	1025.0	1027.5	1026.9	1019.3	1012.3	1009.1	1000.9	998.4
40°	249.0	278.1	417.5	545.4	786.8	999.6	992.7	985.7	980.0	977.5	968.0
42.5°	248.3	249.0	249.6	246.4	305.3	520.1	767.8	958.5	954.7	948.3	941.4
45°	248.3	245.2	247.7	243.9	245.2	244.5	304.7	491.6	874.8	914.1	911.0
47.5°	245.8	243.9	246.4	243.3	239.5	241.4	238.8	242.0	377.6	640.5	877.4
50°	234.4	235.7	240.1	239.5	236.3	238.8	234.4	238.2	235.0	257.8	496.7
52.5°	217.3	219.8	224.3	228.1	229.3	232.5	231.2	232.5	230.0	230.6	231.2
55°	197.0	200.2	204.0	209.7	212.2	217.3	221.1	223.0	226.2	225.5	220.5
57.5°	178.0	181.2	184.3	190.0	195.7	198.3	205.2	209.1	217.3	215.4	214.1
60°	160.3	162.8	166.0	167.2	174.2	178.6	185.0	188.8	199.5	202.1	205.9
62.5°	144.4	145.7	148.2	150.1	154.6	159.0	162.2	168.5	174.2	182.4	188.1
65°	129.9	131.1	133.0	134.3	134.9	141.3	143.2	150.1	152.0	160.9	166.0
67.5°	113.4	115.9	118.5	119.7	121.0	124.8	126.1	129.2	133.7	137.5	143.8
70°	96.3	98.2	100.7	102.6	105.2	107.7	111.5	113.4	116.6	119.1	124.2
72.5°	80.5	82.4	83.6	85.5	87.4	89.3	92.5	96.9	99.5	103.9	105.2
75°	65.2	67.1	68.4	69.7	71.6	72.9	74.1	78.6	81.1	84.9	88.7
77.5°	53.8	53.8	55.1	58.9	58.3	58.3	59.5	62.1	64.0	66.5	70.3
80°	41.8	42.4	43.1	46.2	46.9	47.5	46.9	48.8	50.7	51.3	53.8
82.5°	31.0	31.7	31.7	33.6	35.5	35.5	35.5	36.1	38.0	38.6	39.9
85°	20.9	21.5	22.2	22.8	24.1	24.7	25.3	25.3	26.6	27.2	27.9
87.5°	11.4	12.7	13.3	13.9	14.6	15.2	15.8	16.5	17.1	17.7	18.4
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°	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3
2.5°	1389.2	1386.1	1384.2	1379.1	1377.8	1369.6	1370.9	1369.6	1369.6	1371.5	1377.8
5°	1448.8	1433.6	1429.8	1419.0	1410.1	1394.9	1385.4	1380.4	1372.8	1369.6	1374.0
7.5°	1489.3	1477.9	1468.4	1458.9	1446.3	1428.5	1415.2	1400.0	1387.3	1375.3	1372.1
10°	1482.4	1495.0	1495.0	1489.3	1477.3	1459.6	1443.7	1424.7	1402.5	1383.5	1372.1
12.5°	1423.4	1445.6	1463.4	1476.7	1488.7	1476.7	1460.8	1445.6	1420.9	1393.0	1372.1
15°	1358.8	1381.6	1403.8	1431.7	1460.8	1472.9	1472.2	1454.5	1432.3	1403.2	1374.0
17.5°	1313.2	1329.1	1341.1	1371.5	1407.0	1438.0	1458.9	1460.2	1438.6	1412.7	1374.7
20°	1279.0	1290.4	1300.5	1317.7	1348.7	1386.7	1425.3	1446.9	1443.1	1414.6	1376.6
22.5°	1248.0	1256.2	1264.4	1277.1	1301.8	1326.5	1371.5	1415.8	1434.8	1411.4	1374.7
25°	1216.9	1225.8	1232.1	1241.0	1260.6	1280.9	1312.6	1367.7	1410.1	1408.9	1370.9
27.5°	1180.2	1192.2	1199.8	1211.9	1225.2	1240.4	1261.9	1313.9	1374.7	1396.2	1360.7
30°	1135.8	1153.6	1165.0	1178.3	1189.7	1203.0	1220.1	1251.8	1327.2	1371.5	1350.0
32.5°	1071.9	1103.5	1128.9	1141.5	1154.2	1165.6	1180.8	1207.4	1268.9	1337.9	1337.9
35°	1026.2	1040.8	1063.6	1100.4	1116.2	1127.6	1141.5	1162.4	1201.7	1298.0	1318.3
37.5°	990.8	996.5	1007.9	1044.0	1073.8	1092.1	1106.1	1119.4	1158.0	1243.5	1292.9
40°	964.2	962.3	961.0	978.1	1020.5	1049.7	1065.5	1078.8	1108.6	1178.3	1259.4
42.5°	933.1	931.2	924.9	929.3	950.2	999.0	1023.1	1037.7	1062.4	1109.9	1222.6
45°	900.8	897.7	895.1	890.7	898.3	925.5	974.9	996.5	1010.4	1052.9	1176.4
47.5°	867.9	863.4	860.3	856.5	852.0	864.7	911.6	950.2	974.3	1000.9	1120.6
50°	821.0	826.7	822.9	818.5	814.7	812.1	831.8	895.1	924.9	946.4	1052.9
52.5°	387.1	752.6	784.3	779.8	774.8	770.3	774.8	822.9	876.7	893.8	971.1
55°	220.5	335.1	697.5	737.4	732.9	726.6	722.8	739.3	819.7	842.5	896.4
57.5°	212.2	212.9	307.9	664.5	689.2	683.5	679.1	682.9	751.3	790.0	831.1
60°	205.2	205.2	205.2	293.9	635.4	637.3	631.6	625.3	655.0	731.0	765.3
62.5°	190.0	193.8	195.7	195.7	290.1	588.5	582.8	580.9	582.2	660.1	699.4
65°	170.4	179.3	183.1	185.6	185.6	304.7	532.8	529.6	525.2	554.9	632.9
67.5°	148.9	157.7	166.0	171.0	171.7	177.4	318.0	477.0	470.7	471.3	561.9
70°	126.7	134.3	143.2	150.8	157.7	160.9	166.0	395.9	416.8	408.0	481.4
72.5°	109.6	112.8	119.1	126.7	134.9	142.5	147.0	157.7	361.7	352.2	366.2
75°	91.2	93.8	98.2	103.3	109.6	118.5	126.1	133.7	191.9	295.2	293.3
77.5°	71.0	75.4	80.5	83.6	86.8	93.1	103.3	110.9	118.5	199.5	235.0
80°	54.5	57.6	60.2	63.3	67.1	71.6	75.4	84.3	93.1	100.1	179.9
82.5°	40.5	42.4	44.3	45.6	46.9	49.4	56.4	59.5	65.2	71.6	84.9
85°	28.5	29.8	31.0	31.7	32.3	32.9	35.5	36.1	41.8	43.1	51.3
87.5°	18.4	19.0	20.3	20.9	20.9	21.5	22.2	22.2	22.2	20.9	25.3
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):

	357.5°	360°
0°	1382.3	1382.3
2.5°	1382.9	1393.0
5°	1381.0	1394.3
7.5°	1375.9	1388.6
10°	1368.3	1383.5
12.5°	1360.1	1374.7
15°	1353.1	1363.9
17.5°	1345.5	1351.9
20°	1335.4	1340.5
22.5°	1325.3	1322.7
25°	1313.9	1308.2
27.5°	1299.3	1288.5
30°	1286.0	1267.0
32.5°	1273.3	1242.3
35°	1256.2	1216.9
37.5°	1238.5	1191.0
40°	1217.6	1161.2
42.5°	1195.4	1131.4
45°	1167.5	1102.9
47.5°	1142.8	1068.7
50°	1108.6	1031.9
52.5°	1066.8	997.7
55°	1017.4	955.9
57.5°	964.2	912.2
60°	907.2	862.2
62.5°	838.1	810.2
65°	757.0	750.7
67.5°	651.2	684.8
70°	534.0	609.4
72.5°	446.6	529.6
75°	366.2	440.3
77.5°	290.1	345.3
80°	181.2	252.8
82.5°	121.6	166.0
85°	73.5	79.2
87.5°	28.5	29.1
90°	0.0	0.0

(END OF REPORT)