

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: P1214044

Luminaire Tested: 2SNLED-LD5-30HL-RW-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214044
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: 2SNLED-LD5-30HL-RW-UNV-L950-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

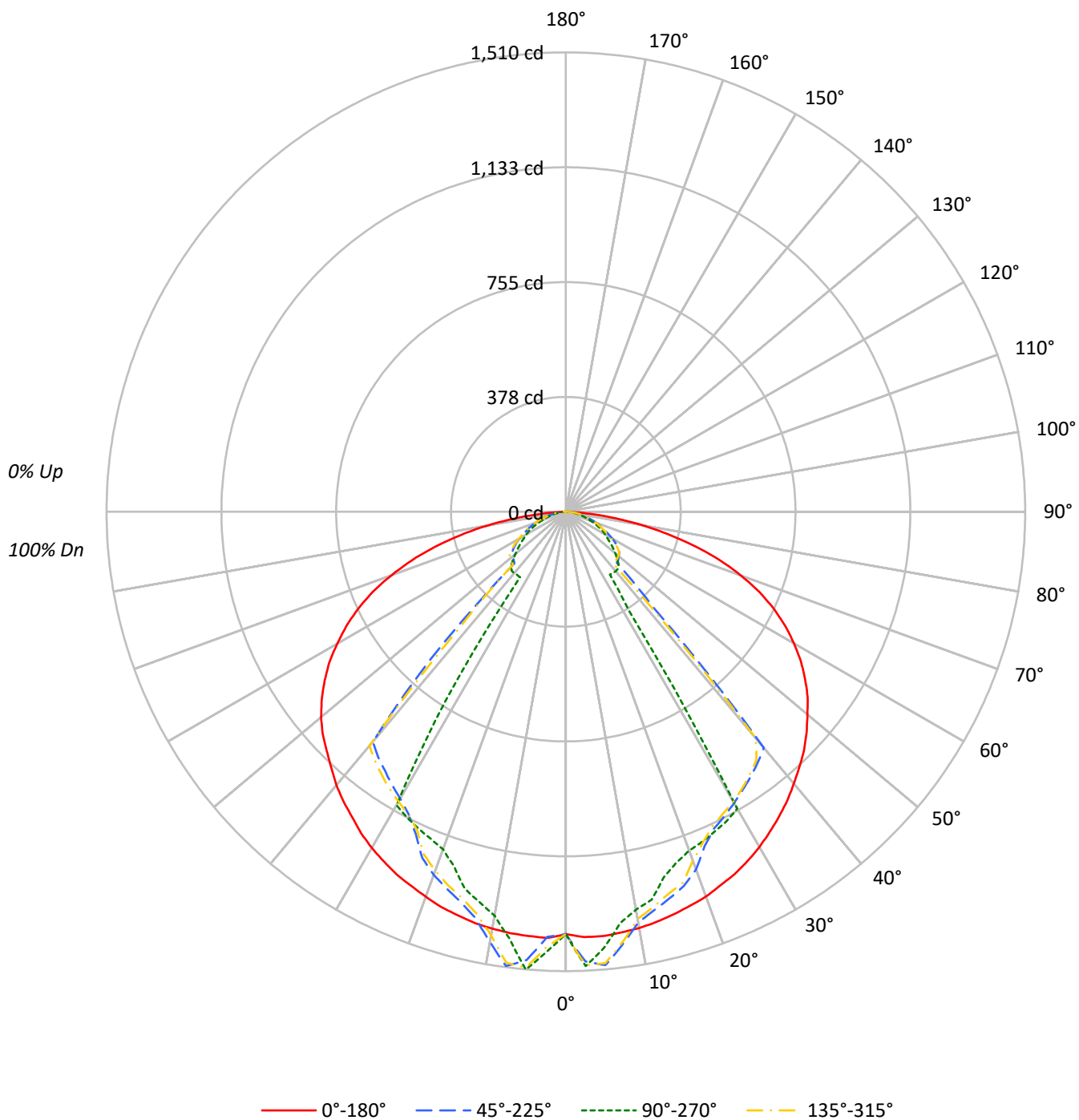
Lumens per Lamp: N/A
Luminaire Lumens: 2780.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 27
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



TEST NUMBER: P1214044

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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87		
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75		
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65		
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57		
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51		
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46		
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41		
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37		
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34		
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	22438	22438	22438	22438
5°	22595	22607	22585	23725
10°	22555	20438	22586	20752
15°	22542	18910	22595	19510
20°	22640	17936	22640	17868
25°	22765	17592	22798	17429
30°	22921	17283	22977	17078
35°	23103	3936	23150	4106
40°	23378	4093	23519	4226
45°	23829	4070	23911	4219
50°	24252	3681	24580	3780
55°	24836	3267	25033	3315
60°	25255	2903	25311	2942
65°	25424	2534	25359	2494
70°	24686	2042	24605	1968
75°	22391	1571	22553	1506
80°	17447	1116	18141	1023
85°	8599	669	9086	512

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 57.5°

Luminance: 25990 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	4.9
10°-20°	375.5	13.5
20°-30°	556.3	20.0
30°-40°	560.5	20.2
40°-50°	437.8	15.7
50°-60°	338.2	12.2
60°-70°	227.1	8.2
70°-80°	115.8	4.2
80°-90°	32.2	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°	1068.4	38.4
0°-40°	1628.9	58.6
0°-60°	2404.9	86.5
0°-90°	2780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2780.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1388	1388	1388	1388	1388	
5°	1400	1439	1400	1510	1400	133
15°	1370	1244	1373	1283	1370	387
25°	1314	1159	1316	1148	1314	606
35°	1222	252	1225	263	1222	766
45°	1108	245	1112	254	1108	854
55°	960	178	968	181	960	857
65°	754	120	752	118	754	741
75°	442	60	445	58	442	462
85°	80	19	84	15	80	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°	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1399.1	1404.2	1408.0	1410.5	1411.8	1411.8	1412.4	1413.1	1421.3	1425.2	1427.7
5°	1400.3	1405.4	1413.1	1423.3	1432.2	1439.8	1446.2	1455.1	1464.0	1473.5	1476.7
7.5°	1394.6	1401.0	1416.3	1434.7	1451.9	1464.0	1472.2	1478.0	1482.4	1483.1	1486.2
10°	1389.5	1401.0	1422.0	1446.2	1467.8	1482.4	1482.4	1479.2	1483.7	1466.5	1449.3
12.5°	1380.6	1393.4	1422.0	1453.8	1474.2	1479.9	1477.3	1464.6	1438.5	1417.5	1408.0
15°	1369.8	1387.0	1422.6	1458.2	1475.4	1477.3	1453.2	1420.7	1401.0	1388.3	1372.4
17.5°	1357.7	1380.6	1423.3	1458.9	1465.2	1456.3	1410.5	1390.2	1369.8	1339.9	1318.3
20°	1346.3	1368.5	1418.2	1450.0	1453.8	1413.7	1378.1	1356.4	1322.1	1296.0	1286.5
22.5°	1328.5	1354.5	1413.7	1437.9	1423.3	1376.8	1342.5	1308.1	1276.9	1269.3	1257.8
25°	1313.8	1341.2	1403.5	1423.3	1384.4	1343.1	1303.0	1262.9	1248.3	1237.5	1227.3
27.5°	1294.1	1327.8	1390.2	1396.5	1343.1	1306.8	1248.3	1230.5	1217.1	1205.0	1200.6
30°	1272.5	1313.8	1371.7	1359.6	1308.7	1255.3	1212.0	1195.5	1185.9	1173.2	1168.1
32.5°	1247.7	1292.8	1351.4	1317.0	1271.8	1205.0	1177.0	1164.3	1151.6	1142.0	1110.2
35°	1222.2	1274.4	1327.2	1276.3	1227.3	1166.9	1142.0	1130.6	1118.5	1083.5	1050.4
37.5°	1196.1	1254.0	1297.9	1232.4	1168.1	1127.4	1106.4	1093.7	1066.3	1021.8	1005.2
40°	1166.2	1229.2	1260.4	1187.2	1116.6	1087.3	1067.6	1054.9	993.2	973.4	968.3
42.5°	1136.3	1205.0	1214.6	1143.3	1074.0	1044.7	1028.2	986.2	944.2	934.0	935.9
45°	1107.7	1178.9	1164.3	1081.0	1029.4	1005.2	977.3	919.4	897.1	902.2	903.5
47.5°	1073.3	1147.8	1111.5	1018.6	983.6	959.4	897.1	862.1	858.9	865.9	869.7
50°	1036.4	1112.8	1055.5	962.0	934.0	905.4	834.7	816.9	820.7	827.7	832.2
52.5°	1002.1	1073.3	997.6	909.2	885.0	819.5	771.8	774.9	781.3	789.6	792.1
55°	960.1	1025.6	935.9	855.7	832.8	746.9	725.3	732.9	739.3	746.3	751.4
57.5°	916.2	970.9	862.7	795.9	759.0	682.7	684.6	689.7	694.1	702.4	290.1
60°	865.9	908.5	782.6	740.6	667.4	631.8	633.7	642.6	647.0	361.4	199.8
62.5°	813.7	836.0	710.0	677.6	583.4	580.9	589.8	593.6	404.0	190.9	187.1
65°	753.9	749.5	638.8	587.2	526.2	528.7	538.3	519.2	178.8	178.8	177.5
67.5°	687.8	661.0	569.4	486.1	470.8	476.5	486.7	169.9	165.4	166.7	162.2
70°	612.1	574.5	497.5	411.6	416.7	422.5	164.1	154.0	152.1	148.9	140.0
72.5°	531.9	480.4	407.2	357.6	360.7	226.5	143.8	138.7	132.3	126.0	116.4
75°	442.2	375.4	299.0	299.0	303.5	129.2	125.3	117.1	110.1	101.8	96.1
77.5°	346.7	288.8	232.2	241.1	117.7	108.2	101.2	92.3	86.5	81.4	78.3
80°	253.9	201.7	175.0	156.5	91.6	82.1	75.1	70.0	67.4	64.3	60.4
82.5°	166.7	121.5	121.5	73.8	64.3	56.6	54.7	50.9	48.4	46.4	44.5
85°	79.5	70.6	53.4	45.2	40.1	36.3	35.0	33.1	33.1	32.4	31.8
87.5°	29.3	31.8	23.5	22.9	21.6	21.0	21.6	21.6	22.3	21.6	21.0
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°	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1434.1	1439.2	1443.0	1449.3	1457.6	1464.6	1471.0	1479.9	1493.9	1497.7	1500.9
5°	1476.7	1478.6	1483.1	1488.1	1489.4	1492.6	1492.0	1495.8	1497.7	1502.1	1492.6
7.5°	1479.2	1469.1	1457.0	1446.2	1438.5	1431.5	1427.1	1434.1	1437.9	1441.1	1431.5
10°	1425.8	1413.7	1406.7	1400.3	1392.7	1381.9	1367.3	1370.4	1369.2	1369.2	1366.0
12.5°	1392.1	1374.9	1357.1	1341.2	1334.2	1333.5	1334.2	1341.2	1341.2	1340.5	1336.7
15°	1339.3	1322.7	1313.8	1310.0	1310.0	1308.1	1308.1	1315.7	1313.8	1313.8	1311.9
17.5°	1304.3	1292.8	1286.5	1282.0	1280.1	1283.3	1287.1	1290.3	1290.9	1288.4	1278.2
20°	1275.6	1264.8	1257.2	1258.5	1257.8	1259.7	1261.7	1250.8	1237.5	1219.7	1211.4
22.5°	1245.7	1237.5	1231.7	1231.7	1224.1	1212.0	1194.2	1190.4	1188.5	1180.2	1173.2
25°	1217.1	1207.6	1199.3	1173.8	1157.9	1159.9	1156.7	1150.3	1149.7	1149.0	1151.6
27.5°	1188.5	1163.7	1131.9	1128.0	1121.7	1121.0	1124.9	1128.0	1128.0	1130.6	1133.8
30°	1129.3	1100.7	1095.0	1088.0	1090.5	1099.4	1101.3	1105.8	1107.0	1111.5	1114.0
32.5°	1075.2	1062.5	1057.4	1060.6	1068.9	1076.5	1081.0	1082.9	1086.0	1089.9	1093.0
35°	1031.3	1027.5	1032.0	1039.0	1047.2	1053.6	1057.4	1061.2	1064.4	1067.6	1070.1
37.5°	998.9	1001.4	1007.8	1016.7	1025.0	1030.1	1033.2	1037.7	1042.1	1046.0	1030.7
40°	968.3	974.7	981.7	991.3	998.2	1003.3	1006.5	1012.2	974.1	440.9	241.8
42.5°	941.6	948.6	953.7	961.3	969.0	972.8	944.8	421.8	238.6	237.3	240.5
45°	909.2	914.9	923.2	928.9	935.9	614.6	234.8	237.3	233.5	236.0	237.3
47.5°	876.1	885.0	889.5	848.7	252.6	233.5	231.0	233.5	231.0	234.1	232.2
50°	838.6	849.4	604.4	228.4	226.5	225.2	227.8	226.5	228.4	231.0	225.9
52.5°	800.4	495.6	221.4	220.1	221.4	220.1	224.6	221.4	222.0	219.5	213.1
55°	271.0	214.4	212.5	211.9	215.7	215.7	215.7	210.6	207.4	201.0	196.6
57.5°	207.4	207.4	206.8	207.4	206.1	204.9	199.1	194.7	190.2	181.3	178.8
60°	196.6	196.6	196.6	196.6	190.9	188.3	179.4	175.6	168.0	163.5	161.0
62.5°	187.7	186.4	180.7	178.8	172.4	165.4	160.3	156.5	148.9	146.3	144.4
65°	175.0	170.5	163.5	155.9	152.7	145.1	142.5	136.8	133.0	131.1	129.8
67.5°	154.0	147.6	141.9	136.8	131.1	128.5	125.3	120.9	118.3	117.1	115.8
70°	131.7	127.2	121.5	118.3	114.5	112.6	108.2	106.9	105.0	103.1	101.2
72.5°	110.1	107.5	105.0	100.5	99.3	98.0	93.5	91.0	88.4	85.9	84.6
75°	92.3	90.3	89.1	85.3	83.3	79.5	76.3	74.4	72.5	70.6	69.3
77.5°	75.7	74.4	70.6	68.1	66.8	63.6	62.4	63.0	61.7	59.2	57.9
80°	59.2	57.9	54.7	54.7	53.4	52.2	50.9	49.6	48.4	46.4	45.2
82.5°	45.2	43.9	42.6	41.4	40.1	39.4	38.8	37.5	36.3	35.0	34.4
85°	31.8	31.2	30.5	29.9	29.3	28.6	28.0	26.7	25.4	24.8	24.2
87.5°	21.6	21.0	20.4	19.7	19.1	18.5	17.8	17.2	15.9	15.3	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°	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1500.9	1504.1	1500.9	1493.9	1489.4	1487.5	1491.3	1491.3	1493.9	1497.1	1497.7
5°	1477.3	1469.7	1460.8	1451.9	1447.4	1444.9	1437.9	1439.2	1441.1	1442.3	1443.6
7.5°	1418.8	1408.6	1396.5	1385.1	1380.6	1376.8	1368.5	1368.5	1368.5	1369.2	1373.0
10°	1359.0	1354.5	1349.5	1341.8	1336.1	1334.2	1327.2	1329.1	1327.8	1329.7	1334.2
12.5°	1331.0	1325.9	1321.5	1313.8	1307.5	1304.9	1301.7	1303.6	1303.0	1306.2	1310.0
15°	1305.6	1303.0	1297.9	1292.2	1286.5	1281.4	1269.9	1266.1	1263.6	1260.4	1264.8
17.5°	1263.6	1245.7	1233.7	1224.7	1218.4	1213.9	1210.8	1210.8	1212.7	1214.6	1218.4
20°	1206.3	1201.2	1195.5	1185.9	1179.6	1177.0	1175.1	1175.1	1178.3	1180.8	1187.8
22.5°	1166.9	1166.2	1164.3	1159.9	1156.7	1156.7	1157.3	1158.6	1163.0	1166.9	1173.8
25°	1148.4	1150.9	1149.7	1147.1	1145.2	1145.9	1144.6	1145.9	1150.3	1154.1	1159.9
27.5°	1133.8	1137.6	1136.3	1132.5	1129.3	1130.6	1132.5	1131.2	1135.0	1139.5	1143.9
30°	1114.0	1114.7	1117.2	1112.8	1111.5	1113.4	1114.0	1115.3	1119.1	1122.3	1126.1
32.5°	1091.8	1096.9	1096.2	1091.8	1091.8	1093.7	1094.3	1051.7	972.2	837.3	800.4
35°	1070.1	1075.9	1066.3	899.0	622.2	332.1	256.4	247.5	249.4	250.7	251.9
37.5°	791.5	375.4	239.2	241.1	243.0	244.9	246.9	248.8	250.7	252.6	253.2
40°	238.0	237.3	239.2	241.8	243.7	244.9	247.5	249.4	251.3	253.2	253.9
42.5°	235.4	236.7	238.6	241.1	243.7	246.2	248.1	250.7	251.9	253.2	253.9
45°	234.1	236.7	239.2	241.1	243.0	244.3	245.6	246.2	245.6	245.6	246.9
47.5°	232.2	234.8	235.4	234.8	235.4	234.8	234.8	234.8	232.9	232.2	232.2
50°	225.2	225.2	224.0	221.4	220.8	220.1	218.9	218.2	215.7	215.0	215.0
52.5°	210.6	210.0	208.0	204.9	203.6	202.3	201.7	201.0	198.5	197.2	197.9
55°	193.4	192.1	190.2	186.4	185.8	184.5	183.9	183.2	180.7	182.0	180.1
57.5°	177.5	175.0	172.4	171.8	169.2	168.6	168.0	167.3	165.4	166.1	164.8
60°	158.4	157.8	156.5	154.0	154.0	153.3	153.3	152.1	150.8	150.2	150.2
62.5°	144.4	142.5	141.2	141.2	139.3	139.3	139.3	138.1	136.8	137.4	136.8
65°	129.2	128.5	127.9	126.6	126.6	126.0	126.0	124.7	122.8	123.4	122.2
67.5°	116.4	115.2	113.9	113.2	110.7	109.4	108.8	108.2	105.6	106.3	105.0
70°	100.5	98.6	97.3	96.1	94.2	92.9	92.9	91.6	89.7	90.3	89.1
72.5°	84.0	82.7	81.4	80.8	78.9	78.3	77.6	77.0	75.1	75.7	75.1
75°	70.0	70.0	69.3	68.7	66.8	64.9	63.6	63.0	61.7	62.4	61.1
77.5°	57.9	56.6	55.4	55.4	53.4	52.2	50.9	50.9	50.9	50.3	49.6
80°	45.2	43.9	43.9	43.3	42.0	40.7	40.1	40.1	39.4	39.4	38.8
82.5°	34.4	33.1	32.4	32.4	31.2	30.5	29.9	29.3	29.3	29.3	28.6
85°	24.2	22.9	22.3	22.3	21.0	20.4	20.4	19.7	19.7	19.1	19.1
87.5°	14.6	14.0	13.4	13.4	12.1	11.5	11.5	11.5	10.8	10.8	10.2
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: P1214044

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1497.7	1497.7	1493.2	1494.5	1492.6	1495.1	1492.0	1492.0	1495.8	1495.8	1498.3
5°	1444.2	1441.1	1440.4	1439.2	1432.8	1435.3	1432.2	1429.0	1433.4	1433.4	1439.2
7.5°	1371.1	1365.4	1367.9	1364.1	1360.3	1354.5	1356.4	1353.9	1357.1	1361.5	1367.3
10°	1333.5	1328.5	1331.6	1327.8	1329.7	1321.5	1322.1	1322.7	1325.9	1327.2	1332.3
12.5°	1309.4	1308.1	1306.8	1305.6	1306.8	1302.4	1299.8	1300.5	1301.7	1302.4	1306.2
15°	1258.5	1250.2	1252.7	1243.8	1244.5	1245.1	1240.0	1245.1	1244.5	1252.7	1260.4
17.5°	1217.1	1217.1	1212.7	1208.8	1206.3	1205.7	1201.8	1204.4	1201.8	1206.9	1208.8
20°	1188.5	1187.8	1187.2	1185.3	1178.9	1179.6	1181.5	1175.8	1175.1	1174.5	1178.3
22.5°	1175.1	1175.8	1173.2	1173.2	1167.5	1168.8	1169.4	1163.0	1163.7	1161.8	1163.7
25°	1161.1	1162.4	1159.2	1159.2	1157.9	1157.3	1154.1	1155.4	1151.6	1148.4	1151.6
27.5°	1144.6	1147.1	1144.6	1145.9	1143.3	1142.0	1140.1	1138.9	1135.0	1134.4	1136.3
30°	1129.3	1130.6	1129.9	1126.8	1126.1	1122.3	1124.2	1120.4	1116.6	1117.2	1118.5
32.5°	579.0	552.9	426.3	384.9	381.1	395.1	468.3	570.1	738.7	902.2	1019.9
35°	252.6	252.6	252.6	251.9	251.9	251.3	250.7	250.0	249.4	248.8	248.1
37.5°	253.9	253.9	253.9	253.9	253.2	252.6	252.6	251.3	250.7	250.0	249.4
40°	254.5	255.1	255.1	255.1	254.5	254.5	253.9	252.6	251.9	250.7	249.4
42.5°	253.9	254.5	254.5	253.9	253.9	253.2	253.2	252.6	251.9	251.3	250.7
45°	245.6	246.2	244.9	244.9	244.3	244.3	244.3	244.3	244.3	244.9	244.9
47.5°	231.0	231.0	230.3	229.7	229.7	229.0	229.7	229.0	230.3	231.0	232.2
50°	213.8	213.8	212.5	211.9	211.9	211.9	211.9	212.5	213.1	214.4	215.7
52.5°	196.0	196.0	195.3	194.7	194.1	194.1	196.0	195.3	196.0	196.6	198.5
55°	178.8	179.4	178.1	178.1	177.5	177.5	177.5	178.1	178.8	179.4	181.3
57.5°	164.1	164.1	162.9	162.9	162.9	162.2	164.1	162.9	163.5	164.1	165.4
60°	149.5	148.9	148.9	148.2	148.2	148.2	149.5	148.9	148.9	149.5	150.8
62.5°	136.2	136.2	135.5	135.5	134.9	134.9	136.2	135.5	135.5	136.2	136.8
65°	120.9	120.9	120.2	119.6	121.5	119.6	121.5	120.2	121.5	122.2	123.4
67.5°	103.7	103.7	103.7	103.1	103.1	104.3	105.0	103.7	104.3	105.6	106.3
70°	88.4	88.4	87.8	87.8	87.8	89.1	89.7	88.4	89.1	89.7	91.0
72.5°	75.1	73.8	73.8	73.2	74.4	74.4	75.1	74.4	75.1	75.1	76.3
75°	61.7	60.4	60.4	60.4	61.7	61.1	61.7	61.1	61.7	61.7	62.4
77.5°	49.6	49.0	48.4	48.4	49.6	49.6	49.6	49.0	49.6	50.3	50.9
80°	38.8	38.2	37.5	37.5	38.8	38.8	38.8	39.4	38.8	39.4	40.1
82.5°	28.6	28.0	27.4	28.6	28.6	28.6	28.6	29.3	28.6	29.3	29.9
85°	19.1	18.5	17.8	19.1	19.1	19.1	19.1	19.7	19.1	19.7	20.4
87.5°	10.2	9.5	9.5	10.2	10.2	10.2	10.8	10.8	10.8	11.5	11.5
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: P1214044

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1502.1	1504.1	1503.4	1499.6	1495.8	1491.3	1488.1	1488.8	1495.1	1497.1	1491.3
5°	1439.2	1451.2	1451.2	1459.5	1455.1	1451.2	1453.8	1467.8	1474.8	1485.6	1489.4
7.5°	1374.3	1380.0	1379.4	1387.6	1386.4	1386.4	1388.3	1406.7	1415.6	1424.5	1427.1
10°	1338.0	1343.7	1343.1	1343.7	1341.8	1337.4	1337.4	1345.6	1353.3	1357.7	1359.0
12.5°	1311.9	1315.1	1314.5	1314.5	1313.2	1309.4	1308.7	1315.7	1324.0	1329.7	1330.4
15°	1273.1	1282.0	1283.9	1292.2	1290.3	1285.2	1286.5	1292.2	1297.3	1302.4	1300.5
17.5°	1215.2	1219.7	1220.3	1223.5	1222.2	1222.2	1229.8	1250.8	1264.8	1276.9	1278.2
20°	1182.1	1185.3	1184.0	1191.0	1187.8	1187.2	1189.1	1198.0	1204.4	1210.1	1220.3
22.5°	1166.2	1168.8	1166.9	1167.5	1161.8	1156.7	1155.4	1162.4	1169.4	1177.0	1177.0
25°	1152.9	1154.8	1154.1	1152.9	1148.4	1141.4	1140.1	1141.4	1143.9	1144.6	1140.1
27.5°	1136.9	1138.2	1138.2	1138.9	1133.1	1126.8	1125.5	1124.2	1126.8	1126.1	1119.1
30°	1120.4	1118.5	1119.1	1119.8	1114.7	1109.0	1106.4	1105.8	1108.3	1107.7	1100.7
32.5°	1081.0	1095.6	1096.9	1098.1	1093.7	1088.6	1086.0	1084.1	1085.4	1084.8	1078.4
35°	247.5	251.9	308.6	698.6	948.6	1050.4	1061.2	1058.7	1059.3	1059.3	1054.2
37.5°	248.1	247.5	246.9	244.9	243.0	241.8	418.0	891.4	1032.6	1033.2	1028.8
40°	248.1	247.5	246.9	245.6	243.0	241.1	238.0	235.4	241.1	530.6	970.9
42.5°	249.4	248.1	246.9	245.6	243.0	240.5	238.0	234.8	236.7	235.4	232.2
45°	245.6	244.9	244.9	244.3	243.0	240.5	237.3	233.5	231.6	233.5	230.3
47.5°	233.5	234.1	236.0	236.7	236.7	237.3	235.4	232.9	229.7	231.6	227.8
50°	217.0	218.2	218.9	222.0	223.3	225.9	226.5	226.5	225.9	228.4	225.9
52.5°	199.1	200.4	203.6	204.9	206.1	210.0	211.2	213.1	214.4	218.2	220.8
55°	182.0	182.6	183.9	186.4	188.3	191.5	193.4	195.3	198.5	200.4	208.0
57.5°	166.1	166.7	169.2	169.9	171.1	173.7	175.6	178.1	180.7	182.0	190.9
60°	150.8	151.4	153.3	154.0	154.6	157.1	159.1	161.0	162.9	164.1	170.5
62.5°	137.4	137.4	139.3	139.3	140.0	141.9	143.2	144.4	146.3	147.0	150.2
65°	124.1	124.7	126.0	126.0	126.6	127.9	128.5	129.2	131.1	131.1	133.6
67.5°	107.5	108.2	110.1	111.3	112.0	114.5	115.2	115.8	117.1	117.7	119.0
70°	91.6	92.3	94.2	94.8	95.4	97.3	98.6	100.5	102.4	104.3	105.6
72.5°	77.0	77.6	79.5	79.5	81.4	82.1	83.3	84.0	85.9	87.2	89.1
75°	63.0	63.6	65.5	65.5	67.4	68.1	68.7	69.3	70.6	71.9	73.2
77.5°	51.5	51.5	54.1	55.4	56.6	56.6	57.3	57.3	57.3	57.9	59.2
80°	40.7	40.7	42.6	43.9	45.2	45.2	45.8	46.4	47.1	47.1	47.7
82.5°	30.5	30.5	32.4	33.1	34.4	34.4	34.4	35.0	35.6	35.0	36.3
85°	21.0	21.0	22.3	22.9	24.2	24.2	24.2	24.8	25.4	24.8	25.4
87.5°	12.1	12.7	13.4	14.0	14.6	15.3	15.3	15.3	15.9	15.9	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: P1214044

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1485.0	1477.3	1476.7	1467.8	1465.2	1465.9	1458.9	1456.3	1444.9	1442.3	1430.3
5°	1490.7	1494.5	1492.6	1492.0	1493.9	1492.6	1487.5	1485.0	1483.1	1478.0	1467.8
7.5°	1427.7	1430.3	1432.2	1440.4	1447.4	1459.5	1472.2	1480.5	1486.9	1488.1	1479.9
10°	1363.4	1375.5	1383.8	1396.5	1406.7	1413.7	1421.3	1428.3	1446.8	1465.2	1476.1
12.5°	1330.4	1333.5	1332.9	1339.9	1346.9	1365.4	1383.2	1393.4	1407.3	1415.6	1435.3
15°	1302.4	1303.0	1304.9	1310.0	1313.8	1320.2	1328.5	1343.7	1371.7	1384.4	1395.3
17.5°	1276.9	1276.9	1278.2	1282.6	1287.7	1293.5	1298.6	1304.9	1318.9	1339.9	1366.6
20°	1236.2	1254.0	1255.9	1255.3	1257.8	1268.6	1269.9	1281.4	1288.4	1296.6	1322.7
22.5°	1175.8	1186.6	1201.8	1225.4	1234.3	1239.4	1243.2	1248.3	1259.1	1268.6	1279.5
25°	1142.7	1149.7	1154.1	1161.1	1179.6	1209.5	1215.2	1220.9	1227.9	1234.9	1248.3
27.5°	1113.4	1112.8	1116.0	1122.3	1127.4	1143.3	1171.3	1193.6	1194.8	1205.0	1216.5
30°	1092.4	1088.6	1084.1	1082.9	1089.9	1098.1	1106.4	1141.4	1165.6	1170.7	1182.8
32.5°	1072.7	1066.3	1060.0	1054.9	1050.4	1057.4	1062.5	1077.8	1109.0	1138.2	1144.6
35°	1048.5	1042.1	1034.5	1028.8	1021.8	1021.2	1020.5	1035.2	1045.3	1080.3	1110.9
37.5°	1023.7	1016.7	1010.3	1004.0	997.0	991.9	988.7	992.5	1002.1	1017.3	1068.2
40°	997.6	989.3	983.0	977.9	968.3	964.5	958.2	955.6	956.3	969.6	996.3
42.5°	596.2	950.5	953.7	948.0	939.7	934.6	927.6	924.4	918.1	924.4	939.7
45°	229.7	232.2	695.4	918.7	908.5	902.2	895.8	892.6	885.6	880.5	894.5
47.5°	225.2	227.8	222.7	315.6	867.2	869.1	861.5	858.3	851.3	847.5	843.6
50°	222.0	224.0	220.1	221.4	217.0	794.7	826.5	822.6	815.0	810.6	802.9
52.5°	218.9	218.9	216.3	213.1	211.9	212.5	668.7	786.4	777.5	773.0	762.8
55°	208.7	210.0	212.5	207.4	206.1	205.5	203.6	636.9	736.1	731.0	722.1
57.5°	193.4	196.0	203.0	201.7	201.7	196.6	195.3	195.3	591.1	688.4	679.5
60°	175.6	178.1	185.8	188.3	190.2	189.0	187.7	187.1	184.5	622.9	634.3
62.5°	157.1	159.7	162.2	170.5	173.1	176.2	180.1	178.1	175.6	175.6	586.6
65°	137.4	141.2	142.5	150.2	153.3	159.1	162.2	166.7	165.4	164.8	168.0
67.5°	120.2	124.7	125.3	128.5	134.2	136.8	140.6	148.9	152.7	154.0	155.2
70°	105.6	108.2	110.1	111.3	115.2	115.8	122.8	128.5	134.2	140.6	142.5
72.5°	91.0	92.9	96.7	95.4	96.7	99.3	103.1	106.9	112.6	121.5	127.2
75°	74.4	75.7	78.3	79.5	82.1	84.0	86.5	89.7	94.8	99.3	106.9
77.5°	59.8	60.4	62.4	63.0	65.5	67.4	71.9	73.8	77.0	80.2	84.6
80°	48.4	48.4	49.0	49.0	50.9	52.8	56.0	57.9	61.7	64.3	64.3
82.5°	36.9	36.9	38.8	38.8	40.1	40.1	42.0	42.0	43.9	45.2	46.4
85°	26.1	26.7	28.0	27.4	28.6	28.0	29.3	30.5	31.2	30.5	29.9
87.5°	17.2	17.2	18.5	17.8	18.5	18.5	19.7	19.7	20.4	20.4	19.7
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: P1214044

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1425.8	1416.3	1410.5	1403.5	1401.6	1399.7	1402.3	1402.3	1398.4	1395.3	1389.5
5°	1458.9	1448.7	1437.9	1426.4	1415.6	1404.2	1399.7	1399.1	1392.1	1388.3	1386.4
7.5°	1476.1	1471.0	1458.9	1443.0	1426.4	1406.1	1397.2	1392.1	1385.1	1383.8	1383.8
10°	1478.0	1472.2	1465.9	1454.4	1435.3	1408.6	1391.4	1381.3	1374.9	1379.4	1387.6
12.5°	1459.5	1470.3	1464.6	1457.0	1441.7	1409.3	1384.4	1369.2	1367.3	1378.7	1400.3
15°	1412.4	1444.2	1460.2	1452.5	1440.4	1408.0	1373.0	1355.2	1355.2	1378.7	1406.7
17.5°	1376.8	1401.6	1440.4	1446.8	1432.8	1405.4	1362.2	1341.2	1346.9	1381.3	1411.2
20°	1347.5	1362.8	1400.3	1436.0	1422.6	1399.7	1346.3	1324.6	1336.1	1377.4	1417.5
22.5°	1301.7	1332.3	1355.2	1408.0	1412.4	1388.9	1330.4	1304.3	1327.2	1377.4	1414.3
25°	1257.2	1294.1	1318.3	1369.8	1397.2	1375.5	1315.7	1282.6	1317.6	1375.5	1411.8
27.5°	1226.0	1243.2	1287.1	1324.0	1374.3	1357.7	1296.0	1259.1	1305.6	1365.4	1397.2
30°	1192.9	1204.4	1247.7	1282.6	1343.7	1337.4	1275.6	1233.0	1290.3	1355.8	1359.0
32.5°	1156.7	1169.4	1191.7	1242.6	1301.1	1318.3	1252.7	1206.9	1273.7	1341.2	1314.5
35°	1119.8	1129.3	1147.1	1201.8	1251.5	1289.6	1224.7	1177.0	1262.3	1318.9	1271.8
37.5°	1082.9	1093.0	1108.3	1154.1	1199.3	1262.9	1200.6	1147.1	1241.3	1279.5	1227.3
40°	1047.9	1053.6	1069.5	1098.1	1156.0	1235.6	1173.2	1116.0	1219.7	1229.2	1166.9
42.5°	983.6	1012.2	1026.9	1049.8	1107.0	1198.0	1141.4	1082.9	1195.5	1178.9	1106.4
45°	914.3	976.6	983.0	1005.9	1063.8	1157.9	1111.5	1050.4	1172.6	1135.7	1049.1
47.5°	857.6	902.8	939.7	958.8	1012.2	1110.9	1083.5	1023.1	1138.2	1081.0	993.2
50°	807.4	831.6	898.4	912.4	950.5	1054.2	1050.4	991.3	1090.5	1012.2	938.4
52.5°	758.4	775.6	836.0	865.9	897.1	993.2	1011.0	960.1	1038.3	943.5	883.1
55°	715.8	721.5	754.6	817.6	845.6	931.4	967.7	923.8	972.2	878.0	829.6
57.5°	671.9	666.8	690.9	771.8	792.1	868.5	921.9	886.9	918.7	811.2	774.3
60°	626.1	619.1	629.2	682.7	735.5	806.1	867.8	846.2	853.8	745.0	712.6
62.5°	578.3	571.3	568.2	601.9	680.1	741.8	813.1	801.0	774.3	684.6	636.2
65°	528.7	521.7	516.6	530.0	619.1	658.5	752.0	748.8	687.1	621.0	535.7
67.5°	161.0	474.6	463.8	463.2	521.7	582.8	685.9	680.8	599.3	552.9	461.3
70°	145.1	384.9	409.1	403.4	428.8	505.8	610.1	606.3	514.1	443.5	407.8
72.5°	133.0	136.2	361.4	355.0	360.7	430.1	531.3	521.1	435.8	349.9	352.5
75°	113.9	119.6	124.7	299.7	292.0	356.3	445.4	429.5	359.5	288.8	294.6
77.5°	92.9	99.9	103.7	218.2	236.0	253.9	355.7	334.7	247.5	231.0	110.1
80°	69.3	75.1	81.4	87.2	179.4	177.5	264.0	243.0	172.4	143.8	85.9
82.5°	50.9	52.8	56.6	63.0	71.3	119.0	169.9	149.5	119.6	65.5	59.2
85°	31.8	34.4	36.3	38.2	43.3	71.3	84.0	66.8	50.3	40.1	37.5
87.5°	20.4	20.4	19.7	20.4	21.0	25.4	28.6	27.4	21.6	20.4	20.4
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: P1214044

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1383.2	1374.3	1374.3	1371.7	1373.6	1373.6	1373.0	1373.6	1378.1	1380.6	1385.1
5°	1382.5	1380.0	1385.7	1392.7	1401.0	1411.2	1413.7	1422.6	1430.9	1441.7	1453.2
7.5°	1390.8	1399.7	1410.5	1422.0	1438.5	1450.6	1461.4	1472.2	1479.9	1490.1	1496.4
10°	1402.9	1420.7	1439.2	1453.8	1471.6	1481.8	1488.8	1490.1	1479.2	1462.1	1448.1
12.5°	1420.1	1441.1	1458.2	1472.2	1480.5	1476.7	1456.3	1435.3	1423.3	1405.4	1380.6
15°	1434.7	1453.8	1471.6	1465.9	1443.6	1422.6	1406.7	1381.9	1357.7	1341.2	1330.4
17.5°	1441.1	1459.5	1453.2	1423.3	1402.3	1378.1	1345.6	1326.5	1310.6	1297.9	1291.6
20°	1444.9	1441.7	1407.3	1385.7	1345.0	1322.7	1301.7	1283.9	1271.8	1265.5	1264.2
22.5°	1434.7	1395.9	1366.6	1327.8	1297.9	1279.5	1262.9	1248.3	1240.0	1234.9	1231.7
25°	1401.0	1355.8	1312.5	1282.0	1256.6	1240.7	1227.9	1215.8	1205.7	1203.1	1196.8
27.5°	1353.9	1317.0	1259.7	1236.2	1213.9	1206.3	1192.3	1180.2	1171.3	1163.7	1143.3
30°	1315.1	1256.6	1215.2	1193.6	1180.2	1171.3	1155.4	1142.7	1127.4	1099.4	1088.0
32.5°	1267.4	1209.5	1170.0	1157.9	1141.4	1133.8	1116.0	1088.0	1064.4	1053.0	1052.3
35°	1205.7	1157.9	1129.3	1118.5	1105.1	1092.4	1055.5	1030.1	1018.6	1019.9	1029.4
37.5°	1154.1	1111.5	1093.0	1077.8	1062.5	1030.1	998.9	986.8	990.0	996.3	1000.8
40°	1102.0	1069.5	1048.5	1036.4	1002.1	970.3	953.7	958.2	963.9	968.3	974.1
42.5°	1051.1	1028.2	1007.2	983.6	936.5	919.4	923.2	928.9	934.0	940.4	946.1
45°	1002.7	982.3	958.2	904.7	881.2	885.6	891.4	895.8	903.5	907.9	913.6
47.5°	956.9	935.3	892.6	845.6	843.0	851.9	857.0	862.7	868.5	857.0	472.7
50°	905.4	883.1	818.2	800.4	806.1	814.4	820.7	826.5	736.1	292.7	225.2
52.5°	854.5	797.8	756.5	761.6	767.3	776.8	781.3	580.2	231.0	220.1	220.8
55°	797.8	725.3	713.2	719.6	724.7	734.2	486.7	213.1	211.9	211.2	216.3
57.5°	708.8	664.9	670.0	676.3	681.4	481.0	207.4	206.1	206.8	207.4	208.0
60°	629.2	619.7	625.4	631.1	446.6	200.4	196.6	197.2	199.8	197.9	192.8
62.5°	566.2	573.9	579.6	507.7	190.2	188.3	190.2	188.3	183.9	180.7	174.3
65°	517.9	525.5	530.0	178.8	178.1	180.7	178.8	172.4	165.4	156.5	154.6
67.5°	467.0	474.6	169.9	165.4	168.0	164.8	157.1	149.5	144.4	136.8	133.6
70°	414.2	177.5	154.0	153.3	148.9	143.8	135.5	127.9	121.5	118.3	115.2
72.5°	299.0	140.6	138.7	133.6	126.0	119.0	112.0	107.5	104.3	102.4	100.5
75°	124.7	122.2	116.4	107.5	99.9	96.7	91.6	88.4	87.2	83.3	82.1
77.5°	104.3	99.3	91.0	84.6	80.2	78.3	74.4	70.6	68.7	68.1	65.5
80°	80.2	73.2	69.3	66.2	64.9	60.4	56.0	54.1	52.8	52.2	50.3
82.5°	54.7	52.2	49.6	45.2	45.2	43.3	41.4	40.1	38.8	38.8	37.5
85°	35.6	33.7	33.1	31.2	31.2	29.9	29.3	28.6	28.0	27.4	26.7
87.5°	20.4	20.4	21.0	20.4	20.4	19.7	19.1	18.5	17.8	17.8	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: P1214044

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1390.8	1397.2	1398.4	1420.1	1432.2	1431.5	1427.7	1439.2	1432.2	1428.3	1432.2
5°	1464.6	1472.2	1478.6	1502.1	1510.4	1514.2	1513.6	1520.0	1514.9	1510.4	1510.4
7.5°	1500.9	1503.4	1506.0	1500.2	1496.4	1490.1	1480.5	1466.5	1459.5	1451.9	1442.3
10°	1441.1	1432.8	1436.0	1424.5	1415.0	1408.0	1399.1	1387.6	1378.1	1371.1	1360.3
12.5°	1367.9	1367.3	1368.5	1370.4	1360.9	1355.2	1348.2	1339.9	1332.9	1325.3	1316.4
15°	1323.4	1324.0	1329.1	1327.2	1324.0	1320.8	1313.2	1310.6	1304.3	1296.0	1290.9
17.5°	1291.6	1294.7	1299.8	1297.3	1292.2	1289.0	1283.3	1277.6	1271.8	1265.5	1257.8
20°	1263.6	1266.7	1269.9	1266.7	1257.2	1252.7	1245.1	1227.3	1214.6	1201.8	1190.4
22.5°	1233.0	1234.9	1232.4	1222.2	1198.0	1186.6	1177.7	1172.6	1161.8	1154.8	1147.8
25°	1194.8	1184.0	1167.5	1156.0	1146.5	1141.4	1137.6	1136.9	1135.7	1134.4	1131.2
27.5°	1132.5	1128.7	1119.8	1115.3	1116.0	1117.9	1118.5	1120.4	1118.5	1116.0	1113.4
30°	1086.0	1088.0	1088.6	1089.9	1093.0	1095.0	1095.6	1098.1	1096.9	1095.0	1093.7
32.5°	1056.8	1061.2	1063.8	1067.6	1069.5	1072.7	1072.7	1076.5	1072.7	1072.1	1070.8
35°	1032.6	1036.4	1037.7	1043.4	1045.3	1048.5	1048.5	1051.7	1048.5	1016.1	802.3
37.5°	1008.4	1012.2	1014.8	1019.9	1020.5	1022.4	943.5	690.3	445.4	344.8	263.4
40°	979.8	984.3	986.8	988.7	694.8	440.9	303.5	246.9	246.9	248.8	250.7
42.5°	949.3	952.4	663.6	386.2	240.5	239.9	241.8	243.7	245.6	248.1	250.7
45°	746.3	376.6	239.2	233.5	235.4	238.0	240.5	243.0	246.2	248.8	250.0
47.5°	244.9	229.7	232.9	230.3	233.5	236.7	239.2	241.8	242.4	243.0	242.4
50°	226.5	226.5	228.4	228.4	231.0	232.2	232.2	232.2	229.7	229.0	227.1
52.5°	218.9	224.0	221.4	222.7	221.4	219.5	217.6	215.7	211.9	210.6	208.0
55°	215.0	217.0	210.6	208.7	206.1	201.0	198.5	196.0	192.8	191.5	188.3
57.5°	206.1	201.7	194.7	191.5	187.1	182.0	179.4	177.5	174.3	173.1	171.1
60°	189.6	180.7	176.2	172.4	167.3	162.9	161.0	159.7	157.1	156.5	154.6
62.5°	169.2	161.6	157.8	152.7	148.9	146.3	144.4	143.8	141.2	141.2	140.0
65°	147.0	143.2	140.0	134.9	133.0	130.4	129.8	129.2	127.9	127.2	126.0
67.5°	129.2	126.6	122.2	119.6	118.3	116.4	115.2	113.9	111.3	110.1	108.2
70°	113.2	111.3	106.9	105.0	102.4	99.3	97.3	96.1	94.2	92.9	91.0
72.5°	98.0	92.3	89.1	87.2	85.3	82.1	81.4	80.2	78.3	77.6	75.7
75°	78.9	74.4	72.5	71.3	69.3	67.4	67.4	67.4	65.5	64.9	64.3
77.5°	63.0	60.4	59.2	57.9	57.3	56.0	54.1	53.4	51.5	51.5	50.9
80°	48.4	47.1	45.8	45.2	44.5	43.3	42.0	41.4	39.4	39.4	38.8
82.5°	35.6	35.0	34.4	33.7	33.1	32.4	30.5	29.9	28.6	28.6	28.0
85°	25.4	24.8	23.5	22.9	22.9	22.3	20.4	19.7	18.5	18.5	18.5
87.5°	15.9	15.3	14.6	14.0	13.4	12.7	11.5	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: P1214044

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1424.5	1435.3	1434.1	1441.7	1443.6	1447.4	1448.7	1449.3	1439.8	1447.4	1448.1
5°	1508.5	1510.4	1511.7	1514.9	1518.1	1518.7	1515.5	1511.7	1513.0	1510.4	1504.1
7.5°	1441.1	1431.5	1429.6	1427.1	1425.8	1424.5	1418.8	1423.9	1418.2	1415.6	1406.7
10°	1358.4	1349.5	1348.8	1348.8	1350.7	1350.1	1348.8	1346.3	1351.4	1348.2	1346.3
12.5°	1315.1	1311.9	1313.8	1312.5	1317.6	1318.9	1317.6	1317.6	1316.4	1313.8	1315.1
15°	1289.0	1286.5	1288.4	1286.5	1290.3	1290.9	1287.7	1289.6	1286.5	1283.3	1282.0
17.5°	1254.7	1248.9	1244.5	1238.1	1238.7	1237.5	1233.7	1233.7	1230.5	1222.2	1222.8
20°	1188.5	1182.8	1180.2	1180.2	1183.4	1184.7	1184.0	1185.3	1182.1	1180.8	1175.8
22.5°	1147.1	1146.5	1147.8	1150.9	1156.0	1163.0	1163.7	1163.7	1163.7	1163.0	1156.7
25°	1132.5	1132.5	1133.8	1138.2	1142.0	1147.1	1148.4	1149.7	1148.4	1148.4	1142.7
27.5°	1116.0	1114.7	1117.2	1121.7	1126.1	1129.9	1133.1	1133.8	1131.9	1131.9	1133.8
30°	1095.6	1095.0	1098.1	1102.6	1106.4	1110.2	1113.4	1116.0	1113.4	1113.4	1111.5
32.5°	1074.6	1074.6	1075.9	1049.1	972.8	876.1	878.0	822.0	783.2	734.2	799.1
35°	670.6	488.0	419.3	355.0	309.8	280.6	279.9	270.4	265.9	262.8	262.1
37.5°	253.2	254.5	257.0	258.3	260.2	261.5	262.1	262.1	262.1	262.1	261.5
40°	252.6	255.1	257.0	258.9	260.9	262.1	262.1	262.8	263.4	263.4	263.4
42.5°	253.2	255.8	258.3	260.2	261.5	262.1	262.8	263.4	263.4	263.4	263.4
45°	252.6	253.9	253.9	254.5	254.5	254.5	255.1	255.1	254.5	253.9	255.1
47.5°	243.0	243.0	241.1	240.5	239.9	238.6	239.2	238.6	238.0	237.3	238.6
50°	226.5	224.0	222.7	221.4	220.8	219.5	220.1	219.5	218.9	217.6	219.5
52.5°	206.8	206.1	203.6	202.3	201.7	202.3	201.0	200.4	199.8	199.1	199.8
55°	187.7	185.1	184.5	183.2	182.6	183.2	182.6	182.0	181.3	180.7	181.3
57.5°	170.5	168.6	168.0	166.7	166.7	166.7	166.7	166.1	165.4	164.8	165.4
60°	154.0	152.7	152.1	152.1	151.4	151.4	151.4	150.8	150.2	150.2	150.8
62.5°	140.0	140.0	138.1	137.4	137.4	138.1	137.4	136.8	136.2	135.5	136.8
65°	125.3	122.8	122.2	120.9	119.6	120.2	119.6	119.0	118.3	117.7	119.0
67.5°	107.5	106.9	104.3	103.1	102.4	103.1	102.4	101.8	101.2	100.5	101.8
70°	90.3	90.3	87.8	87.2	86.5	86.5	85.9	85.9	85.3	84.6	85.9
72.5°	75.1	75.1	74.4	73.2	72.5	71.9	71.3	70.6	70.6	71.3	71.3
75°	62.4	61.1	58.5	59.2	58.5	57.9	57.9	57.3	56.6	57.9	57.3
77.5°	49.0	48.4	46.4	47.1	46.4	45.8	45.8	45.2	44.5	45.2	45.2
80°	36.9	36.9	36.3	35.6	35.6	35.0	34.4	34.4	33.7	34.4	34.4
82.5°	26.7	26.7	26.1	25.4	24.8	24.8	24.2	24.2	24.2	24.2	24.2
85°	17.2	16.5	16.5	15.3	15.3	15.3	14.6	14.6	14.6	14.6	14.6
87.5°	8.3	8.3	7.6	7.6	7.0	6.4	6.4	5.7	5.7	6.4	6.4
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: P1214044

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1436.6	1444.9	1437.9	1441.1	1441.7	1452.5	1451.9	1454.4	1450.0	1444.9	1437.9
5°	1509.8	1506.0	1500.9	1513.0	1506.6	1514.2	1516.8	1521.9	1521.9	1521.2	1515.5
7.5°	1416.3	1408.0	1414.3	1418.8	1420.7	1415.6	1425.8	1437.3	1446.8	1452.5	1453.2
10°	1343.1	1345.6	1345.0	1346.9	1351.4	1350.7	1357.1	1363.4	1366.0	1369.8	1371.1
12.5°	1308.7	1308.1	1309.4	1313.8	1316.4	1315.7	1322.1	1325.9	1327.2	1327.8	1327.2
15°	1281.4	1276.9	1280.1	1280.7	1282.6	1282.6	1290.3	1296.0	1298.6	1299.8	1298.6
17.5°	1229.8	1219.0	1229.2	1229.2	1236.2	1234.9	1247.0	1256.6	1261.7	1265.5	1265.5
20°	1178.9	1173.8	1177.7	1176.4	1181.5	1180.8	1188.5	1194.8	1199.3	1202.5	1206.3
22.5°	1158.6	1159.9	1154.1	1154.8	1154.8	1154.1	1157.9	1161.1	1162.4	1164.3	1163.0
25°	1145.2	1146.5	1144.6	1141.4	1140.1	1141.4	1143.3	1147.1	1147.8	1146.5	1142.0
27.5°	1131.9	1128.0	1131.2	1125.5	1124.2	1126.8	1129.3	1129.9	1130.6	1130.6	1126.8
30°	1111.5	1108.3	1111.5	1109.0	1106.4	1109.0	1110.9	1110.9	1112.1	1112.8	1108.3
32.5°	776.8	783.2	886.3	948.6	1036.4	1081.0	1089.2	1089.2	1090.5	1090.5	1086.7
35°	264.7	265.3	286.9	311.1	362.7	426.3	509.6	552.9	699.2	874.2	1043.4
37.5°	261.5	260.9	260.2	259.6	258.9	258.3	257.0	256.4	260.2	308.6	418.6
40°	262.8	262.1	260.9	260.2	259.6	258.3	257.7	256.4	255.1	253.9	252.6
42.5°	262.8	262.1	261.5	260.9	260.2	259.6	258.3	257.0	255.8	253.9	251.9
45°	253.9	253.9	254.5	254.5	255.1	255.1	255.1	254.5	254.5	253.9	251.3
47.5°	237.3	237.3	239.2	239.2	240.5	241.8	241.8	243.0	244.9	246.2	246.9
50°	218.2	218.2	220.1	220.8	222.0	224.0	225.9	226.5	228.4	231.0	233.5
52.5°	199.1	199.1	201.0	201.0	202.3	204.2	206.1	206.8	209.3	211.9	215.0
55°	181.3	181.3	182.6	183.2	183.9	185.1	187.1	187.1	189.6	191.5	194.7
57.5°	165.4	166.7	166.7	166.7	167.3	168.6	169.9	169.9	171.8	173.7	176.2
60°	150.2	151.4	151.4	151.4	152.1	152.7	154.0	154.0	155.2	156.5	159.1
62.5°	136.2	137.4	137.4	138.1	138.1	138.7	140.0	139.3	140.6	141.2	143.2
65°	118.3	119.6	120.2	120.9	121.5	122.8	124.7	124.1	126.0	127.2	129.2
67.5°	101.2	102.4	102.4	103.1	103.7	105.0	106.3	106.3	108.2	109.4	112.0
70°	85.3	86.5	86.5	87.2	87.8	89.1	90.3	89.7	91.6	92.9	94.8
72.5°	70.6	71.9	71.9	72.5	72.5	73.8	75.1	76.3	76.3	77.6	78.9
75°	57.3	57.9	58.5	58.5	59.2	59.8	61.1	62.4	63.0	63.6	64.9
77.5°	45.2	45.8	46.4	46.4	47.1	47.7	48.4	50.9	52.2	52.8	52.8
80°	34.4	35.0	35.0	35.0	35.6	36.3	37.5	37.5	40.1	40.1	40.7
82.5°	24.2	24.8	24.8	24.8	25.4	26.7	27.4	28.0	29.3	29.9	29.9
85°	14.6	15.3	15.3	15.3	15.9	16.5	17.8	18.5	19.1	19.1	19.7
87.5°	5.7	6.4	7.0	7.0	7.6	8.3	8.9	9.5	10.2	10.2	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: 2SNLED-LD5-30HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1430.3	1434.7	1430.3	1432.8	1436.0	1430.3	1416.9	1411.8	1409.9	1402.3	1397.2
5°	1509.8	1509.8	1507.9	1513.0	1512.3	1503.4	1489.4	1483.1	1476.7	1468.4	1462.1
7.5°	1453.2	1458.2	1461.4	1481.2	1493.9	1495.1	1504.1	1506.0	1508.5	1506.0	1502.1
10°	1371.7	1369.8	1378.7	1397.2	1408.0	1413.7	1430.9	1439.2	1446.2	1460.2	1474.8
12.5°	1325.9	1328.5	1332.3	1345.6	1355.8	1353.3	1360.3	1366.0	1374.3	1388.3	1409.3
15°	1295.4	1297.9	1301.7	1311.9	1318.3	1315.1	1318.9	1322.7	1328.5	1335.5	1348.2
17.5°	1262.3	1266.7	1271.2	1282.0	1287.7	1287.1	1290.3	1291.6	1293.5	1297.9	1306.8
20°	1210.8	1224.7	1233.7	1248.3	1256.6	1255.3	1261.0	1262.9	1265.5	1269.9	1273.7
22.5°	1163.7	1167.5	1171.9	1187.8	1201.8	1219.0	1222.8	1227.9	1234.3	1238.7	1242.6
25°	1136.9	1134.4	1136.3	1147.1	1154.8	1156.0	1161.8	1178.3	1195.5	1203.1	1212.0
27.5°	1121.0	1118.5	1117.9	1123.0	1124.2	1121.0	1119.8	1124.9	1137.6	1150.3	1177.0
30°	1103.9	1100.7	1098.1	1102.6	1104.5	1100.0	1091.8	1087.3	1095.0	1098.1	1109.0
32.5°	1083.5	1080.3	1079.1	1081.6	1082.9	1079.1	1070.1	1065.1	1063.8	1061.2	1063.8
35°	1060.6	1057.4	1055.5	1056.1	1058.7	1055.5	1047.9	1041.5	1038.3	1031.3	1026.2
37.5°	546.5	774.3	1005.2	1029.4	1032.0	1031.3	1023.7	1016.7	1013.5	1005.2	1002.7
40°	250.0	279.3	419.3	547.8	790.2	1004.0	997.0	990.0	984.3	981.7	972.2
42.5°	249.4	250.0	250.7	247.5	306.7	522.3	771.1	962.6	958.8	952.4	945.4
45°	249.4	246.2	248.8	244.9	246.2	245.6	306.0	493.7	878.6	918.1	914.9
47.5°	246.9	244.9	247.5	244.3	240.5	242.4	239.9	243.0	379.2	643.2	881.2
50°	235.4	236.7	241.1	240.5	237.3	239.9	235.4	239.2	236.0	258.9	498.8
52.5°	218.2	220.8	225.2	229.0	230.3	233.5	232.2	233.5	231.0	231.6	232.2
55°	197.9	201.0	204.9	210.6	213.1	218.2	222.0	224.0	227.1	226.5	221.4
57.5°	178.8	182.0	185.1	190.9	196.6	199.1	206.1	210.0	218.2	216.3	215.0
60°	161.0	163.5	166.7	168.0	175.0	179.4	185.8	189.6	200.4	203.0	206.8
62.5°	145.1	146.3	148.9	150.8	155.2	159.7	162.9	169.2	175.0	183.2	189.0
65°	130.4	131.7	133.6	134.9	135.5	141.9	143.8	150.8	152.7	161.6	166.7
67.5°	113.9	116.4	119.0	120.2	121.5	125.3	126.6	129.8	134.2	138.1	144.4
70°	96.7	98.6	101.2	103.1	105.6	108.2	112.0	113.9	117.1	119.6	124.7
72.5°	80.8	82.7	84.0	85.9	87.8	89.7	92.9	97.3	99.9	104.3	105.6
75°	65.5	67.4	68.7	70.0	71.9	73.2	74.4	78.9	81.4	85.3	89.1
77.5°	54.1	54.1	55.4	59.2	58.5	58.5	59.8	62.4	64.3	66.8	70.6
80°	42.0	42.6	43.3	46.4	47.1	47.7	47.1	49.0	50.9	51.5	54.1
82.5°	31.2	31.8	31.8	33.7	35.6	35.6	35.6	36.3	38.2	38.8	40.1
85°	21.0	21.6	22.3	22.9	24.2	24.8	25.4	25.4	26.7	27.4	28.0
87.5°	11.5	12.7	13.4	14.0	14.6	15.3	15.9	16.5	17.2	17.8	18.5
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: 2SNLED-LD5-30HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1395.3	1392.1	1390.2	1385.1	1383.8	1375.5	1376.8	1375.5	1375.5	1377.4	1383.8
5°	1455.1	1439.8	1436.0	1425.2	1416.3	1401.0	1391.4	1386.4	1378.7	1375.5	1380.0
7.5°	1495.8	1484.3	1474.8	1465.2	1452.5	1434.7	1421.3	1406.1	1393.4	1381.3	1378.1
10°	1488.8	1501.5	1501.5	1495.8	1483.7	1465.9	1450.0	1430.9	1408.6	1389.5	1378.1
12.5°	1429.6	1451.9	1469.7	1483.1	1495.1	1483.1	1467.2	1451.9	1427.1	1399.1	1378.1
15°	1364.7	1387.6	1409.9	1437.9	1467.2	1479.2	1478.6	1460.8	1438.5	1409.3	1380.0
17.5°	1318.9	1334.8	1346.9	1377.4	1413.1	1444.2	1465.2	1466.5	1444.9	1418.8	1380.6
20°	1284.6	1296.0	1306.2	1323.4	1354.5	1392.7	1431.5	1453.2	1449.3	1420.7	1382.5
22.5°	1253.4	1261.7	1269.9	1282.6	1307.5	1332.3	1377.4	1422.0	1441.1	1417.5	1380.6
25°	1222.2	1231.1	1237.5	1246.4	1266.1	1286.5	1318.3	1373.6	1416.3	1415.0	1376.8
27.5°	1185.3	1197.4	1205.0	1217.1	1230.5	1245.7	1267.4	1319.5	1380.6	1402.3	1366.6
30°	1140.8	1158.6	1170.0	1183.4	1194.8	1208.2	1225.4	1257.2	1332.9	1377.4	1355.8
32.5°	1076.5	1108.3	1133.8	1146.5	1159.2	1170.7	1185.9	1212.7	1274.4	1343.7	1343.7
35°	1030.7	1045.3	1068.2	1105.1	1121.0	1132.5	1146.5	1167.5	1206.9	1303.6	1324.0
37.5°	995.1	1000.8	1012.2	1048.5	1078.4	1096.9	1110.9	1124.2	1163.0	1248.9	1298.6
40°	968.3	966.4	965.2	982.3	1025.0	1054.2	1070.1	1083.5	1113.4	1183.4	1264.8
42.5°	937.2	935.3	928.9	933.4	954.3	1003.3	1027.5	1042.1	1067.0	1114.7	1227.9
45°	904.7	901.5	899.0	894.5	902.2	929.5	979.2	1000.8	1014.8	1057.4	1181.5
47.5°	871.6	867.2	864.0	860.2	855.7	868.5	915.5	954.3	978.5	1005.2	1125.5
50°	824.6	830.3	826.5	822.0	818.2	815.7	835.4	899.0	928.9	950.5	1057.4
52.5°	388.7	755.8	787.7	783.2	778.1	773.7	778.1	826.5	880.5	897.7	975.3
55°	221.4	336.6	700.5	740.6	736.1	729.8	725.9	742.5	823.3	846.2	900.3
57.5°	213.1	213.8	309.2	667.4	692.2	686.5	682.0	685.9	754.6	793.4	834.7
60°	206.1	206.1	206.1	295.2	638.1	640.1	634.3	628.0	657.9	734.2	768.6
62.5°	190.9	194.7	196.6	196.6	291.4	591.1	585.3	583.4	584.7	663.0	702.4
65°	171.1	180.1	183.9	186.4	186.4	306.0	535.1	531.9	527.4	557.3	635.6
67.5°	149.5	158.4	166.7	171.8	172.4	178.1	319.4	479.1	472.7	473.4	564.3
70°	127.2	134.9	143.8	151.4	158.4	161.6	166.7	397.6	418.6	409.7	483.5
72.5°	110.1	113.2	119.6	127.2	135.5	143.2	147.6	158.4	363.3	353.7	367.7
75°	91.6	94.2	98.6	103.7	110.1	119.0	126.6	134.2	192.8	296.5	294.6
77.5°	71.3	75.7	80.8	84.0	87.2	93.5	103.7	111.3	119.0	200.4	236.0
80°	54.7	57.9	60.4	63.6	67.4	71.9	75.7	84.6	93.5	100.5	180.7
82.5°	40.7	42.6	44.5	45.8	47.1	49.6	56.6	59.8	65.5	71.9	85.3
85°	28.6	29.9	31.2	31.8	32.4	33.1	35.6	36.3	42.0	43.3	51.5
87.5°	18.5	19.1	20.4	21.0	21.0	21.6	22.3	22.3	22.3	21.0	25.4
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: P1214044

CATALOG NUMBER: 2SNLED-LD5-30HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1388.3	1388.3
2.5°	1388.9	1399.1
5°	1387.0	1400.3
7.5°	1381.9	1394.6
10°	1374.3	1389.5
12.5°	1366.0	1380.6
15°	1359.0	1369.8
17.5°	1351.4	1357.7
20°	1341.2	1346.3
22.5°	1331.0	1328.5
25°	1319.5	1313.8
27.5°	1304.9	1294.1
30°	1291.6	1272.5
32.5°	1278.8	1247.7
35°	1261.7	1222.2
37.5°	1243.8	1196.1
40°	1222.8	1166.2
42.5°	1200.6	1136.3
45°	1172.6	1107.7
47.5°	1147.8	1073.3
50°	1113.4	1036.4
52.5°	1071.4	1002.1
55°	1021.8	960.1
57.5°	968.3	916.2
60°	911.1	865.9
62.5°	841.7	813.7
65°	760.3	753.9
67.5°	654.0	687.8
70°	536.3	612.1
72.5°	448.5	531.9
75°	367.7	442.2
77.5°	291.4	346.7
80°	182.0	253.9
82.5°	122.2	166.7
85°	73.8	79.5
87.5°	28.6	29.3
90°	0.0	0.0

(END OF REPORT)