

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: P1213760

Luminaire Tested: 4SNLED-LD5-37SL-LN-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33519)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-37SL-LN-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

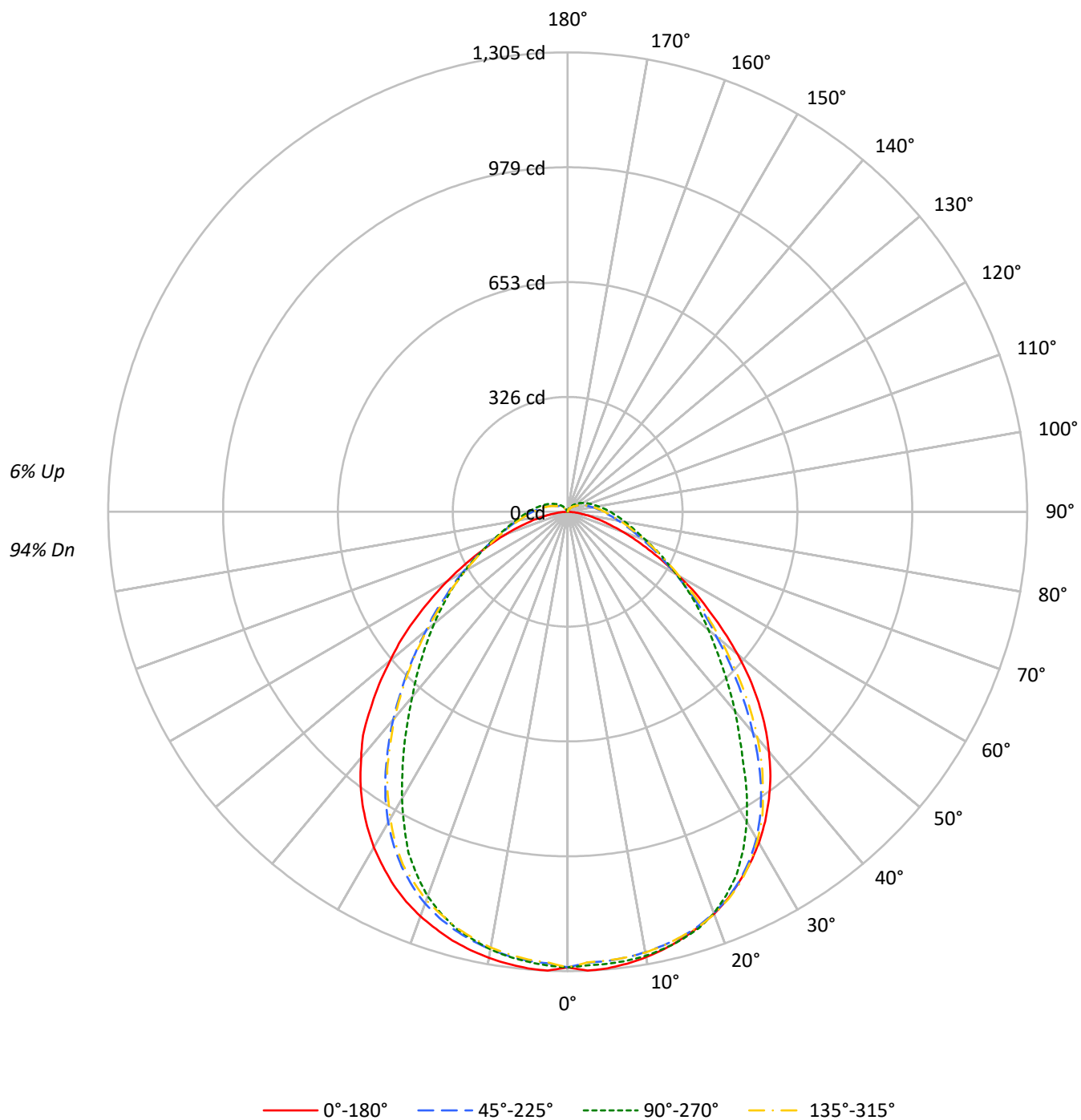
Lumens per Lamp: N/A
Luminaire Lumens: 3275.0 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 28
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	30	10
RCR																	
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96
1	107	103	98	95	104	100	96	92	94	91	88	89	87	85	85	83	81
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	67	63	60
4	83	72	63	57	80	70	62	56	67	60	55	64	58	53	61	56	52
5	77	64	56	50	74	63	55	49	60	53	48	58	52	47	55	50	46
6	71	58	50	44	69	57	49	43	55	48	42	52	46	42	50	45	41
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37
8	62	49	41	35	60	48	40	35	46	39	34	44	38	34	43	37	33
9	58	45	37	32	56	44	37	31	42	36	31	41	35	30	40	34	30
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10458	10458	10458	10458
5°	10532	10125	10532	10080
10°	10485	9856	10503	9719
15°	10418	9561	10465	9312
20°	10338	9183	10398	8795
25°	10172	8621	10284	8113
30°	9956	7796	10087	7217
35°	9620	6784	9806	6317
40°	9139	5933	9381	5505
45°	8503	5158	8780	4862
50°	7636	4532	7972	4303
55°	6605	4002	7085	3800
60°	5555	3514	6058	3311
65°	4554	3107	5012	2880
70°	3625	2757	4058	2550
75°	2846	2546	3204	2342
80°	2056	2456	2419	2244
85°	1264	2469	1701	2271

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 8780 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	3.7
10°-20°	351.8	10.7
20°-30°	521.4	15.9
30°-40°	579.2	17.7
40°-50°	525.1	16.0
50°-60°	406.9	12.4
60°-70°	276.3	8.4
70°-80°	175.8	5.4
80°-90°	112.4	3.4
90°-100°	75.8	2.3
100°-110°	51.9	1.6
110°-120°	34.6	1.1
120°-130°	21.5	0.7
130°-140°	11.9	0.4
140°-150°	5.6	0.2
150°-160°	2.0	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	995.9	30.4
0°-40°	1575.1	48.1
0°-60°	2507.0	76.6
0°-90°	3071.5	93.8
90°-120°	162.3	5.0
90°-150°	201.3	6.1
90°-180°	203.0	6.2
0°-180°	3275.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1294	1294	1294	1294	1294	
5°	1302	1289	1302	1283	1302	124
15°	1256	1258	1261	1225	1256	354
25°	1157	1136	1170	1069	1157	533
35°	996	868	1016	809	996	622
45°	767	621	792	585	767	589
55°	490	436	525	414	490	441
65°	254	293	280	272	254	255
75°	102	196	115	180	102	110
85°	18	141	25	130	18	22
90°	0	122	1	111	0	1
95°	1	104	0	97	1	1
105°	1	76	0	72	1	1
115°	1	58	0	53	1	1
125°	1	43	1	38	1	1
135°	1	30	1	24	1	1
145°	1	19	1	14	1	0
155°	1	11	1	5	1	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1
2.5°	1304.8	1303.3	1301.9	1299.8	1301.9	1307.6	1304.1	1296.2	1294.8	1282.0	1287.7
5°	1301.9	1299.8	1298.4	1296.2	1299.1	1306.2	1302.6	1295.5	1293.4	1281.3	1287.7
7.5°	1294.8	1293.4	1291.2	1291.2	1294.1	1301.2	1298.4	1290.5	1289.1	1277.0	1284.1
10°	1284.8	1284.1	1282.7	1282.7	1285.5	1294.1	1290.5	1283.4	1282.0	1270.6	1278.4
12.5°	1272.0	1272.7	1270.6	1270.6	1274.9	1283.4	1280.6	1272.7	1271.3	1261.3	1269.2
15°	1255.7	1256.4	1254.9	1255.7	1259.9	1269.9	1266.3	1259.2	1257.8	1250.0	1256.4
17.5°	1237.1	1237.9	1237.9	1237.1	1242.1	1252.1	1249.2	1242.8	1240.7	1234.3	1242.1
20°	1215.8	1215.8	1215.8	1215.8	1221.5	1231.4	1227.9	1222.9	1218.6	1213.7	1220.1
22.5°	1189.5	1188.7	1189.5	1191.6	1197.3	1205.1	1203.0	1197.3	1190.9	1188.0	1193.0
25°	1157.4	1159.6	1160.3	1162.4	1169.5	1175.9	1173.8	1168.1	1158.1	1156.0	1157.4
27.5°	1124.0	1125.4	1127.5	1126.8	1136.8	1143.2	1138.9	1133.9	1119.7	1117.6	1116.1
30°	1086.2	1088.4	1089.8	1089.1	1096.9	1104.0	1099.8	1093.4	1074.1	1072.7	1061.3
32.5°	1043.5	1045.7	1047.1	1047.1	1058.5	1061.3	1053.5	1044.2	1023.6	1018.6	1008.6
35°	996.5	998.7	999.4	999.4	1010.8	1010.1	1000.1	987.3	964.5	958.1	941.0
37.5°	946.0	947.4	948.1	952.4	957.4	953.1	940.3	923.9	906.9	889.1	870.6
40°	889.1	891.2	892.6	895.5	900.5	895.5	877.0	857.0	838.5	818.6	800.1
42.5°	830.7	837.1	835.7	835.0	837.8	824.3	810.1	787.3	768.8	748.1	729.6
45°	767.3	766.6	770.2	771.6	770.9	759.5	739.6	718.9	700.4	679.1	663.4
47.5°	700.4	699.7	702.6	704.0	699.7	687.6	672.0	648.5	632.8	614.3	602.2
50°	630.0	630.0	634.2	630.0	627.8	615.7	602.9	579.4	567.3	550.9	543.8
52.5°	559.5	565.9	561.6	560.2	558.1	546.0	536.0	516.8	506.8	499.7	491.2
55°	489.7	496.9	494.0	491.9	491.2	481.2	471.9	457.7	451.3	446.3	441.3
57.5°	430.7	429.9	428.5	426.4	427.1	419.3	410.0	402.2	399.3	397.2	398.6
60°	362.3	368.0	365.9	366.6	367.3	365.9	358.0	353.1	353.8	354.5	356.6
62.5°	306.1	311.1	314.6	311.8	313.2	315.3	311.1	309.6	312.5	315.3	318.2
65°	254.1	259.1	262.7	261.9	266.2	270.5	269.8	271.2	277.6	281.2	284.7
67.5°	207.1	212.1	217.1	217.8	224.2	230.6	233.5	238.5	245.6	250.6	254.8
70°	166.6	170.8	176.5	180.1	188.6	197.2	202.2	212.1	216.4	223.5	226.4
72.5°	130.3	133.8	141.7	150.2	157.3	168.0	178.0	186.5	192.9	200.7	204.3
75°	101.8	103.2	111.8	121.7	131.7	143.8	154.5	163.7	172.3	180.1	185.8
77.5°	74.7	76.9	84.7	98.2	109.6	122.4	134.5	144.5	153.8	161.6	169.4
80°	52.0	56.2	64.8	78.3	91.1	105.3	116.7	128.1	138.1	145.9	153.8
82.5°	33.5	37.0	49.1	62.6	76.2	90.4	102.5	113.9	124.6	133.1	140.2
85°	18.5	23.5	35.6	49.8	63.4	77.6	90.4	101.8	112.5	120.3	127.4
87.5°	7.1	14.2	25.6	39.2	52.7	66.2	79.7	90.4	101.1	109.6	116.0
90°	0.0	8.5	19.2	32.7	46.3	59.8	72.6	84.0	94.0	101.8	108.9
92.5°	0.7	5.7	14.9	26.3	39.2	52.0	64.1	75.5	85.4	93.2	99.7
95°	0.7	4.3	12.1	22.8	34.2	46.3	57.7	68.3	77.6	85.4	91.8
97.5°	0.7	2.8	10.0	19.9	29.9	42.0	52.7	62.6	71.2	79.0	84.0
100°	0.7	2.8	8.5	17.1	27.0	37.7	47.7	57.7	65.5	71.9	77.6
102.5°	0.7	2.1	7.1	14.9	24.2	33.5	43.4	52.7	59.8	66.2	71.9
105°	0.7	2.1	6.4	12.8	21.4	30.6	39.2	47.7	55.5	61.2	66.2
107.5°	0.7	1.4	5.7	10.7	18.5	27.8	36.3	43.4	50.5	56.2	61.2
110°	0.7	1.4	5.0	10.0	16.4	24.9	32.7	39.9	46.3	52.0	56.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.7	1.4	4.3	9.3	14.9	22.1	29.9	36.3	42.7	47.7	52.0
115°	0.7	1.4	4.3	8.5	13.5	19.2	26.3	33.5	38.4	44.1	47.7
117.5°	0.7	1.4	3.6	7.1	12.8	17.8	24.2	29.9	35.6	40.6	44.1
120°	0.7	1.4	3.6	6.4	11.4	16.4	21.4	27.0	32.7	36.3	39.9
122.5°	0.7	1.4	2.8	6.4	10.0	14.9	19.2	24.2	29.2	33.5	37.0
125°	0.7	1.4	2.8	5.7	9.3	13.5	17.8	21.4	26.3	29.9	33.5
127.5°	0.7	1.4	2.8	5.0	8.5	12.1	16.4	19.9	23.5	27.0	29.9
130°	0.7	1.4	2.1	4.3	7.8	10.7	14.2	18.5	21.4	24.2	27.0
132.5°	0.7	1.4	2.1	4.3	6.4	9.3	12.8	16.4	19.2	22.1	24.2
135°	0.7	1.4	2.1	3.6	5.7	8.5	10.7	14.2	17.1	19.9	22.1
137.5°	0.7	1.4	2.1	3.6	5.0	7.1	9.3	12.1	14.9	17.1	19.9
140°	0.7	1.4	2.1	2.8	4.3	6.4	8.5	10.0	12.8	14.9	17.1
142.5°	0.7	1.4	2.1	2.8	4.3	5.7	7.1	8.5	10.7	12.8	14.9
145°	0.7	1.4	2.1	2.8	3.6	5.0	6.4	7.8	8.5	10.7	12.1
147.5°	0.7	1.4	2.1	2.8	2.8	4.3	5.7	6.4	7.8	8.5	10.0
150°	0.7	1.4	2.1	2.1	2.8	3.6	5.0	5.7	6.4	7.8	8.5
152.5°	0.7	1.4	2.1	2.1	2.8	3.6	4.3	5.0	5.7	6.4	7.1
155°	0.7	1.4	2.1	2.1	2.1	2.8	3.6	4.3	5.0	5.7	6.4
157.5°	1.4	1.4	1.4	2.1	2.1	2.8	2.8	3.6	4.3	4.3	5.0
160°	1.4	1.4	1.4	2.1	2.1	2.1	2.8	2.8	3.6	3.6	4.3
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1
2.5°	1286.3	1288.4	1294.8	1294.8	1293.4	1292.0	1292.0	1289.8	1291.2	1294.1	1292.7
5°	1286.3	1288.4	1294.8	1294.8	1293.4	1292.0	1291.2	1289.1	1291.2	1294.1	1292.7
7.5°	1282.0	1284.8	1291.2	1291.2	1289.8	1289.1	1287.7	1286.3	1288.4	1291.2	1289.8
10°	1276.3	1279.1	1285.5	1285.5	1284.1	1284.1	1282.0	1280.6	1283.4	1285.5	1284.8
12.5°	1267.8	1271.3	1277.0	1276.3	1274.9	1275.6	1273.4	1270.6	1273.4	1275.6	1276.3
15°	1255.7	1259.9	1265.6	1264.2	1262.1	1263.5	1259.9	1257.8	1259.9	1264.2	1263.5
17.5°	1240.0	1242.8	1247.1	1247.1	1245.0	1243.6	1242.1	1240.0	1241.4	1244.3	1245.0
20°	1217.9	1221.5	1223.6	1221.5	1220.8	1218.6	1215.8	1213.7	1216.5	1220.8	1221.5
22.5°	1188.7	1189.5	1194.4	1189.5	1185.9	1185.2	1182.3	1178.1	1182.3	1185.9	1186.6
25°	1152.4	1156.0	1153.9	1145.3	1145.3	1139.6	1138.2	1136.1	1136.8	1143.2	1146.0
27.5°	1106.2	1107.6	1101.9	1094.8	1088.4	1084.8	1079.8	1080.5	1080.5	1089.1	1091.9
30°	1055.6	1047.8	1042.8	1031.4	1026.4	1017.9	1016.5	1016.5	1015.1	1019.3	1032.1
32.5°	995.1	984.4	976.6	965.9	957.4	948.9	944.6	946.7	946.0	956.7	961.0
35°	928.9	922.5	906.1	892.6	887.6	874.8	874.8	868.4	872.7	884.8	889.8
37.5°	859.2	849.2	835.7	820.7	817.2	807.2	803.6	800.1	809.3	811.5	816.5
40°	788.0	778.7	765.9	751.7	751.7	739.6	739.6	739.6	740.3	744.6	753.8
42.5°	720.4	710.4	699.0	689.0	687.6	678.4	678.4	677.7	679.1	682.6	691.2
45°	654.9	647.0	634.9	630.0	630.7	620.7	622.8	620.7	623.6	627.1	630.0
47.5°	594.4	589.4	584.4	577.3	575.2	574.4	570.9	568.0	573.0	573.0	577.3
50°	538.1	535.3	532.4	528.2	528.9	526.0	521.8	521.8	525.3	526.0	528.9
52.5°	489.0	485.5	481.9	482.6	483.3	481.9	479.8	477.6	479.8	481.2	484.7
55°	439.9	437.1	440.6	439.2	440.6	439.2	437.8	436.3	439.9	437.8	441.3
57.5°	395.8	398.6	400.0	397.2	399.3	397.9	398.6	396.5	399.3	400.8	400.0
60°	355.2	359.5	357.3	358.0	360.9	359.5	356.6	358.8	361.6	362.3	361.6
62.5°	318.2	323.2	325.3	323.9	324.6	323.2	325.3	322.5	326.0	327.4	325.3
65°	284.7	290.4	291.8	291.8	291.8	290.4	292.6	293.3	294.7	294.7	293.3
67.5°	256.3	261.2	262.7	264.1	262.7	261.2	261.2	261.9	264.8	266.2	264.8
70°	230.6	235.6	236.3	236.3	237.0	238.5	235.6	237.0	239.2	239.9	239.2
72.5°	208.6	213.5	215.0	214.3	215.0	215.7	215.7	214.3	216.4	217.8	217.8
75°	190.8	193.6	195.0	195.0	195.8	196.5	196.5	195.8	197.2	197.9	198.6
77.5°	174.4	176.5	178.7	178.7	179.4	178.7	180.1	180.1	180.8	181.5	182.2
80°	158.0	160.9	162.3	163.0	164.4	165.1	165.1	165.1	165.9	166.6	166.6
82.5°	145.2	147.3	149.5	151.6	151.6	152.3	152.3	152.3	153.0	153.0	153.8
85°	132.4	135.2	137.4	138.8	139.5	140.2	140.2	140.9	140.9	140.9	141.7
87.5°	121.0	124.6	126.0	127.4	128.1	129.6	129.6	129.6	130.3	130.3	130.3
90°	113.2	116.7	118.2	119.6	120.3	121.0	121.0	121.7	121.7	122.4	122.4
92.5°	103.9	107.5	110.3	110.3	111.0	112.5	111.8	111.8	112.5	113.2	113.2
95°	96.8	99.7	101.8	102.5	103.2	103.2	103.2	103.9	103.2	103.9	103.9
97.5°	88.3	91.1	93.2	94.7	95.4	95.4	95.4	96.1	95.4	96.1	96.1
100°	81.1	84.0	86.1	86.8	88.3	88.3	88.3	88.3	88.3	88.3	89.0
102.5°	75.5	78.3	79.7	80.4	81.1	81.9	81.9	81.9	81.9	82.6	82.6
105°	69.8	72.6	74.0	74.7	75.5	76.2	76.2	76.2	76.9	76.9	76.2
107.5°	64.8	66.9	68.3	69.8	70.5	70.5	71.2	71.2	71.2	71.2	71.2
110°	59.8	61.9	64.1	65.5	65.5	66.2	66.2	66.9	66.9	66.2	66.9

TEST NUMBER: P1213760

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	54.8	57.7	59.1	60.5	61.2	61.9	61.9	61.9	61.9	61.9	61.9
115°	50.5	53.4	54.8	56.2	56.9	57.7	57.7	57.7	57.7	57.7	57.7
117.5°	47.0	49.8	51.3	52.0	52.7	53.4	54.1	54.1	54.1	54.1	53.4
120°	43.4	45.6	47.0	48.4	49.1	49.8	49.8	49.8	49.8	49.8	49.8
122.5°	39.9	42.0	43.4	44.8	45.6	46.3	46.3	46.3	46.3	46.3	46.3
125°	36.3	38.4	39.9	41.3	42.0	42.7	42.7	42.7	42.7	42.7	42.7
127.5°	32.7	34.9	37.0	37.7	38.4	39.2	39.2	39.2	39.9	39.2	39.2
130°	29.2	31.3	33.5	34.2	34.9	35.6	36.3	36.3	36.3	36.3	35.6
132.5°	26.3	28.5	29.9	30.6	32.0	32.0	32.7	32.7	32.7	32.7	32.0
135°	24.2	25.6	27.0	27.8	29.2	29.2	29.2	29.9	29.9	29.2	28.5
137.5°	21.4	22.8	24.2	24.9	25.6	26.3	26.3	27.0	26.3	26.3	26.3
140°	19.9	20.6	22.1	22.8	23.5	23.5	23.5	24.2	24.2	23.5	23.5
142.5°	17.1	18.5	19.9	20.6	21.4	21.4	21.4	21.4	21.4	21.4	21.4
145°	14.2	16.4	17.1	18.5	18.5	19.2	19.2	19.2	19.2	19.2	18.5
147.5°	12.1	13.5	15.7	16.4	16.4	17.1	17.1	17.1	17.1	17.1	16.4
150°	9.3	10.7	12.8	14.2	14.2	14.9	14.9	14.9	14.9	14.2	14.2
152.5°	7.8	9.3	10.0	11.4	12.1	12.1	12.1	12.8	12.1	12.1	12.1
155°	7.1	7.8	8.5	9.3	10.0	10.7	10.7	10.7	10.7	10.0	10.0
157.5°	5.7	6.4	7.1	7.8	8.5	9.3	9.3	9.3	9.3	9.3	8.5
160°	4.3	5.0	5.7	5.7	6.4	7.1	7.8	7.1	7.1	7.1	7.1
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1
2.5°	1291.2	1290.5	1292.7	1289.1	1278.4	1281.3	1279.9	1286.3	1287.7	1289.1	1295.5
5°	1291.2	1290.5	1292.0	1289.1	1277.7	1279.9	1278.4	1284.8	1286.3	1287.0	1293.4
7.5°	1288.4	1287.7	1289.8	1286.3	1274.2	1277.0	1274.9	1281.3	1282.0	1282.7	1288.4
10°	1282.7	1282.0	1283.4	1280.6	1268.5	1271.3	1268.5	1274.9	1274.9	1276.3	1280.6
12.5°	1274.2	1272.7	1275.6	1272.0	1258.5	1262.1	1260.6	1264.9	1265.6	1266.3	1270.6
15°	1262.1	1260.6	1262.8	1260.6	1248.5	1249.2	1247.1	1253.5	1254.2	1252.8	1257.1
17.5°	1244.3	1242.8	1247.1	1245.7	1233.6	1236.4	1235.7	1237.1	1239.3	1235.7	1241.4
20°	1222.2	1223.6	1225.0	1225.8	1216.5	1216.5	1215.8	1218.6	1220.8	1217.9	1222.2
22.5°	1189.5	1193.0	1197.3	1198.7	1192.3	1191.6	1195.9	1194.4	1196.6	1195.1	1198.0
25°	1148.2	1155.3	1159.6	1163.8	1160.3	1161.7	1168.1	1169.5	1169.5	1168.8	1171.7
27.5°	1096.9	1106.2	1114.0	1123.3	1119.7	1122.5	1133.2	1134.6	1137.5	1134.6	1140.3
30°	1035.7	1044.2	1059.2	1072.7	1074.1	1078.4	1093.4	1094.8	1102.6	1099.8	1101.9
32.5°	974.5	978.8	995.8	1009.4	1017.9	1028.6	1045.0	1047.8	1058.5	1060.6	1060.6
35°	897.6	909.7	925.4	944.6	955.3	966.7	988.7	993.0	1008.6	1013.6	1019.3
37.5°	832.8	844.2	854.2	874.1	893.3	906.1	923.9	934.6	951.0	960.2	967.4
40°	763.8	773.0	783.7	803.6	820.0	839.2	857.0	869.8	890.5	901.2	910.4
42.5°	698.3	705.4	716.8	731.0	748.1	769.5	786.6	801.5	823.6	838.5	849.2
45°	639.9	644.2	654.2	664.8	679.8	701.9	718.2	737.4	755.2	770.9	783.7
47.5°	585.1	590.8	595.8	602.9	616.4	630.0	649.2	667.7	685.5	702.6	715.4
50°	534.6	534.6	542.4	547.4	556.6	568.7	583.7	596.5	618.6	630.7	647.0
52.5°	485.5	488.3	492.6	495.4	502.5	510.4	522.5	533.2	551.7	563.0	578.7
55°	442.0	444.9	447.0	448.4	452.7	462.0	466.2	474.8	487.6	496.9	510.4
57.5°	400.8	402.2	404.3	405.0	405.7	411.4	415.0	417.1	429.9	439.2	450.6
60°	363.0	363.0	365.2	364.5	363.7	366.6	365.9	368.0	375.8	381.5	386.5
62.5°	327.4	327.4	328.1	326.7	326.0	326.0	323.2	325.3	327.4	328.1	331.7
65°	294.7	298.3	295.4	296.1	291.8	290.4	289.0	284.7	284.0	281.2	282.6
67.5°	265.5	268.4	265.5	265.5	261.9	259.1	255.5	248.4	246.3	240.6	239.2
70°	242.0	239.9	241.3	239.2	234.9	231.3	226.4	220.7	213.5	206.4	201.4
72.5°	219.2	219.2	217.8	215.7	213.5	206.4	200.7	194.3	185.8	176.5	169.4
75°	197.2	197.9	197.9	195.8	192.2	185.8	179.4	170.1	160.9	150.2	140.9
77.5°	181.5	181.5	181.5	178.0	174.4	168.7	160.9	150.9	140.9	128.1	117.5
80°	166.6	165.9	165.9	161.6	158.0	151.6	143.8	133.8	123.1	109.6	97.5
82.5°	154.5	153.8	152.3	148.8	143.8	137.4	129.6	118.9	107.5	95.4	80.4
85°	141.7	140.9	139.5	136.0	131.0	125.3	116.7	106.1	94.7	81.1	66.9
87.5°	130.3	129.6	127.4	125.3	119.6	113.2	104.6	94.7	82.6	69.8	55.5
90°	122.4	121.0	119.6	116.7	111.8	104.6	96.1	85.4	73.3	60.5	46.3
92.5°	113.2	112.5	110.3	107.5	103.2	96.1	87.6	77.6	65.5	53.4	39.9
95°	103.9	103.2	101.8	98.9	94.7	88.3	80.4	70.5	59.1	47.0	34.9
97.5°	95.4	95.4	93.2	91.1	86.1	81.1	73.3	64.1	53.4	42.7	31.3
100°	88.3	88.3	86.1	83.3	79.7	74.7	66.9	58.4	48.4	38.4	27.0
102.5°	81.9	81.1	79.7	76.9	73.3	68.3	61.2	53.4	44.1	34.2	24.2
105°	76.2	75.5	74.0	71.2	68.3	62.6	56.9	49.1	39.9	30.6	21.4
107.5°	70.5	69.8	69.0	66.2	62.6	57.7	52.0	44.1	36.3	27.8	19.2
110°	65.5	64.8	63.4	60.5	56.9	52.7	47.0	40.6	32.7	24.9	17.1

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CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	61.2	60.5	59.1	56.2	53.4	48.4	43.4	36.3	29.9	22.8	14.9
115°	56.9	56.2	54.8	52.0	48.4	44.1	39.2	33.5	26.3	19.9	13.5
117.5°	52.7	52.0	50.5	48.4	44.8	40.6	35.6	29.9	23.5	18.5	12.1
120°	49.1	47.7	46.3	44.1	40.6	37.0	32.0	27.0	21.4	16.4	10.7
122.5°	45.6	44.1	42.7	40.6	37.0	33.5	28.5	24.2	19.9	14.9	10.0
125°	41.3	40.6	39.2	37.0	33.5	29.9	26.3	22.1	17.8	13.5	8.5
127.5°	37.7	37.0	35.6	32.7	29.9	27.0	23.5	19.9	15.7	11.4	7.8
130°	34.9	33.5	32.0	29.9	27.8	24.9	21.4	17.8	14.2	10.0	7.1
132.5°	31.3	29.9	28.5	27.0	24.9	22.1	19.2	15.7	12.8	9.3	6.4
135°	28.5	27.0	25.6	24.2	22.1	19.9	17.1	14.2	11.4	8.5	5.7
137.5°	24.9	24.2	23.5	22.1	19.9	17.8	15.7	12.1	10.0	7.8	5.0
140°	22.8	22.1	21.4	19.2	17.8	15.7	13.5	10.7	8.5	6.4	4.3
142.5°	20.6	19.9	18.5	17.1	15.7	14.2	11.4	10.0	7.8	5.7	4.3
145°	17.8	17.1	16.4	14.9	13.5	11.4	10.0	8.5	7.1	5.0	3.6
147.5°	16.4	15.7	14.2	12.8	11.4	10.0	9.3	7.8	5.7	4.3	2.8
150°	13.5	12.8	12.1	10.7	10.0	9.3	7.8	6.4	5.0	3.6	2.8
152.5°	11.4	10.7	10.0	10.0	8.5	7.8	6.4	5.7	4.3	3.6	2.1
155°	10.0	10.0	9.3	8.5	7.1	6.4	5.7	4.3	3.6	2.8	2.1
157.5°	8.5	7.8	7.1	7.1	6.4	5.7	4.3	3.6	2.8	2.8	2.1
160°	7.1	6.4	6.4	5.7	5.0	4.3	3.6	3.6	2.8	2.1	2.1
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213760

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1
2.5°	1296.2	1288.4	1295.5	1304.8	1304.8	1303.3	1301.9	1304.8	1311.9	1309.0	1300.5
5°	1294.1	1286.3	1292.7	1301.9	1301.9	1299.8	1298.4	1300.5	1308.3	1304.8	1296.9
7.5°	1289.8	1282.7	1287.0	1295.5	1295.5	1293.4	1292.0	1294.8	1301.2	1297.6	1289.1
10°	1282.0	1274.2	1279.1	1287.0	1286.3	1284.8	1282.7	1286.3	1292.0	1287.0	1277.0
12.5°	1272.0	1264.2	1268.5	1275.6	1274.9	1272.0	1270.6	1272.7	1277.7	1274.9	1264.2
15°	1258.5	1250.7	1254.2	1261.3	1259.2	1257.1	1254.2	1254.9	1261.3	1256.4	1245.0
17.5°	1242.1	1233.6	1236.4	1242.8	1240.7	1238.6	1235.0	1235.7	1242.8	1235.7	1223.6
20°	1222.2	1212.9	1215.1	1222.9	1219.3	1215.8	1212.2	1212.2	1219.3	1211.5	1198.0
22.5°	1200.8	1191.6	1193.0	1198.7	1195.9	1189.5	1185.9	1188.0	1191.6	1181.6	1167.4
25°	1174.5	1162.4	1164.5	1170.2	1168.1	1159.6	1156.0	1157.4	1156.0	1148.2	1133.2
27.5°	1143.9	1131.1	1132.5	1136.1	1133.2	1125.4	1121.1	1121.8	1119.0	1109.0	1091.9
30°	1105.5	1099.1	1098.3	1100.5	1096.2	1088.4	1083.4	1082.0	1081.3	1067.0	1046.4
32.5°	1066.3	1060.6	1057.1	1059.9	1054.9	1047.1	1038.5	1038.5	1031.4	1017.9	1000.1
35°	1026.4	1017.2	1013.6	1015.8	1010.1	1000.1	993.0	989.4	978.8	961.7	942.5
37.5°	975.2	968.8	964.5	966.7	960.2	953.1	939.6	936.0	924.7	901.2	877.0
40°	919.7	914.7	910.4	912.6	905.4	894.8	882.7	877.0	864.1	837.8	818.6
42.5°	859.9	857.7	852.8	860.6	846.4	835.7	823.6	814.3	801.5	773.0	751.0
45°	796.5	801.5	790.1	792.3	783.0	773.7	760.9	747.4	734.6	707.5	682.6
47.5°	729.6	733.2	725.3	726.8	716.8	708.3	696.9	679.8	665.6	642.1	620.0
50°	660.6	659.1	659.1	657.7	649.9	639.2	627.8	612.2	597.9	576.6	558.1
52.5°	587.3	590.1	591.5	595.1	585.1	578.7	560.9	547.4	536.7	514.6	499.0
55°	516.8	526.7	523.9	525.3	513.9	509.0	494.7	484.0	468.4	455.6	445.6
57.5°	452.7	454.9	456.3	458.4	453.4	443.5	432.1	423.5	411.4	400.8	393.6
60°	390.8	390.8	391.5	395.1	390.1	381.5	373.0	366.6	358.0	351.6	347.4
62.5°	332.4	337.4	338.1	335.3	328.9	324.6	318.9	315.3	309.6	307.5	306.1
65°	278.3	278.3	278.3	279.7	276.2	273.3	269.8	269.1	271.2	268.4	269.8
67.5°	232.8	230.6	229.2	229.9	228.5	227.1	226.4	228.5	232.8	232.8	236.3
70°	193.6	189.3	186.5	186.5	186.5	187.2	189.3	193.6	200.7	203.6	208.6
72.5°	161.6	152.3	148.1	148.1	148.8	151.6	158.0	165.9	172.3	178.0	184.4
75°	131.0	121.7	115.3	114.6	116.0	120.3	129.6	136.7	147.3	155.2	163.0
77.5°	106.1	94.7	86.8	86.1	88.3	94.7	106.1	115.3	127.4	136.0	144.5
80°	84.7	71.9	65.5	61.2	64.8	72.6	85.4	96.8	108.2	119.6	130.3
82.5°	67.6	55.5	45.6	41.3	45.6	56.2	68.3	81.9	93.2	105.3	116.0
85°	53.4	40.6	29.2	24.9	29.9	41.3	54.8	68.3	81.1	93.2	103.9
87.5°	42.0	29.2	17.8	12.1	18.5	30.6	43.4	56.9	70.5	82.6	93.2
90°	32.7	20.6	10.0	1.4	10.7	22.1	34.9	47.7	61.2	73.3	84.0
92.5°	27.8	15.7	5.7	0.0	6.4	16.4	28.5	41.3	53.4	65.5	76.2
95°	23.5	12.8	4.3	0.0	4.3	12.8	23.5	34.9	47.0	59.1	69.8
97.5°	19.9	10.0	2.8	0.0	2.8	10.0	19.2	30.6	41.3	52.7	62.6
100°	17.1	8.5	2.1	0.0	2.1	7.8	16.4	26.3	37.0	47.7	56.9
102.5°	14.9	7.1	1.4	0.0	1.4	6.4	13.5	22.8	32.0	42.0	51.3
105°	12.8	5.7	1.4	0.0	0.7	5.0	11.4	19.9	28.5	37.7	46.3
107.5°	11.4	5.0	1.4	0.0	0.7	4.3	10.0	17.1	25.6	33.5	41.3
110°	10.0	4.3	1.4	0.0	0.7	2.8	8.5	14.9	22.1	29.9	37.7

TEST NUMBER: P1213760

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	8.5	3.6	0.7	0.0	0.0	2.1	7.1	12.8	19.2	27.0	33.5
115°	7.8	3.6	0.7	0.0	0.0	1.4	5.7	11.4	17.1	24.2	29.9
117.5°	7.1	2.8	0.7	0.0	0.7	1.4	5.0	10.0	14.9	20.6	27.0
120°	6.4	2.8	0.7	0.0	0.7	0.7	3.6	8.5	12.8	18.5	23.5
122.5°	5.7	2.8	0.7	0.0	0.7	0.7	2.8	7.1	11.4	16.4	20.6
125°	5.0	2.1	1.4	0.7	0.7	0.7	2.1	5.7	10.0	13.5	18.5
127.5°	5.0	2.1	1.4	0.7	0.7	0.7	1.4	5.0	7.8	12.1	16.4
130°	4.3	2.1	1.4	0.7	0.7	0.7	0.7	3.6	7.1	10.0	13.5
132.5°	3.6	2.1	1.4	0.7	0.7	0.7	0.7	2.1	5.0	8.5	11.4
135°	3.6	2.1	1.4	0.7	0.7	0.7	0.7	1.4	3.6	6.4	9.3
137.5°	2.8	1.4	1.4	0.7	0.7	0.7	0.7	0.7	2.8	5.0	7.1
140°	2.8	1.4	1.4	0.7	0.7	0.7	0.7	0.7	2.1	3.6	5.7
142.5°	2.1	1.4	1.4	0.7	0.7	0.7	0.7	0.7	1.4	2.8	4.3
145°	2.1	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.8
147.5°	2.1	2.1	1.4	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1
150°	2.1	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
152.5°	2.1	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
155°	2.1	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
157.5°	2.1	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
160°	2.1	1.4	1.4	0.7	1.4	0.7	1.4	1.4	1.4	1.4	1.4
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213760

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1
2.5°	1297.6	1284.1	1291.2	1289.1	1292.0	1297.6	1296.9	1295.5	1295.5	1293.4	1290.5
5°	1293.4	1280.6	1287.0	1283.4	1287.0	1292.0	1291.2	1289.1	1290.5	1287.0	1283.4
7.5°	1284.8	1273.4	1279.1	1276.3	1279.1	1284.1	1282.0	1281.3	1282.7	1277.0	1274.9
10°	1274.9	1262.1	1268.5	1264.9	1268.5	1272.0	1270.6	1267.8	1270.6	1264.9	1262.8
12.5°	1259.2	1248.5	1252.8	1251.4	1253.5	1257.1	1254.2	1252.1	1253.5	1248.5	1244.3
15°	1242.1	1231.4	1235.0	1232.9	1234.3	1238.6	1233.6	1232.9	1231.4	1226.5	1225.0
17.5°	1220.1	1210.1	1213.7	1210.1	1212.2	1210.8	1210.1	1206.5	1206.5	1200.8	1196.6
20°	1193.0	1184.5	1182.3	1179.5	1182.3	1179.5	1175.2	1172.4	1171.7	1166.0	1162.4
22.5°	1161.7	1151.7	1153.1	1145.3	1146.0	1141.8	1134.6	1131.8	1128.9	1122.5	1117.6
25°	1124.0	1114.0	1106.9	1101.9	1095.5	1094.8	1085.5	1078.4	1077.7	1069.9	1069.2
27.5°	1081.3	1069.9	1064.2	1052.1	1044.2	1037.8	1030.0	1022.9	1019.3	1010.8	1005.1
30°	1032.1	1019.3	1005.1	996.5	984.4	979.5	965.9	957.4	954.6	945.3	941.0
32.5°	976.6	963.1	951.7	935.3	921.8	914.7	901.2	892.6	889.1	879.1	873.4
35°	916.1	901.2	887.6	872.0	861.3	849.2	832.8	824.3	816.5	812.9	808.6
37.5°	852.8	836.4	820.7	805.1	795.8	781.6	767.3	761.6	752.4	748.8	744.6
40°	787.3	770.9	756.0	741.0	730.3	717.5	704.7	702.6	692.6	689.0	686.2
42.5°	722.5	705.4	688.3	677.7	669.8	657.0	648.5	646.3	637.8	635.7	635.7
45°	664.1	642.8	628.5	619.3	612.9	602.2	595.1	593.7	586.5	585.1	585.1
47.5°	601.5	581.6	570.9	565.2	559.5	551.7	547.4	547.4	540.3	538.8	538.1
50°	543.1	524.6	516.8	511.1	510.4	504.7	501.1	499.7	499.7	494.7	495.4
52.5°	487.6	478.3	471.9	468.4	464.1	460.5	457.7	457.7	455.6	452.0	453.4
55°	436.3	425.7	426.4	423.5	421.4	419.3	420.0	415.7	415.0	412.1	414.3
57.5°	385.1	385.1	383.7	381.5	378.0	379.4	379.4	379.4	375.8	373.7	375.8
60°	341.7	343.8	340.3	342.4	341.0	341.7	340.3	340.3	338.1	337.4	338.1
62.5°	303.2	306.8	305.4	308.2	306.8	307.5	308.9	306.1	304.7	303.2	304.7
65°	269.1	273.3	272.6	274.8	275.5	276.2	276.9	275.5	274.1	272.6	271.9
67.5°	239.2	243.4	246.3	247.0	247.7	249.8	249.1	247.7	246.3	244.2	243.4
70°	212.1	217.8	221.4	222.8	225.6	224.2	224.2	223.5	222.1	220.0	219.2
72.5°	189.3	195.8	199.3	200.7	203.6	203.6	202.9	202.2	200.7	198.6	197.9
75°	169.4	175.1	180.1	182.9	185.1	185.1	184.4	183.6	182.2	180.8	180.1
77.5°	153.8	158.7	163.0	166.6	168.0	168.7	168.0	166.6	166.6	165.9	165.1
80°	138.1	143.8	148.1	151.6	153.8	153.8	153.0	153.8	152.3	151.6	150.9
82.5°	124.6	131.0	136.0	139.5	140.9	141.7	140.9	141.7	140.2	140.2	140.2
85°	112.5	118.9	124.6	127.4	129.6	130.3	130.3	130.3	129.6	129.6	129.6
87.5°	102.5	108.9	114.6	117.5	119.6	120.3	120.3	121.0	119.6	119.6	119.6
90°	93.2	99.7	105.3	108.2	110.3	111.8	111.8	112.5	111.8	111.0	111.0
92.5°	84.7	91.8	97.5	100.4	102.5	104.6	104.6	105.3	103.9	103.9	103.9
95°	77.6	84.7	89.7	93.2	95.4	96.8	97.5	97.5	96.8	96.8	96.8
97.5°	71.2	77.6	82.6	86.1	88.3	89.0	89.7	90.4	89.7	89.7	89.7
100°	64.8	71.2	76.2	79.0	81.9	82.6	83.3	84.0	84.0	83.3	83.3
102.5°	59.1	65.5	69.8	73.3	75.5	76.9	77.6	77.6	77.6	77.6	77.6
105°	53.4	59.8	64.1	67.6	69.8	71.2	71.9	72.6	72.6	71.9	71.9
107.5°	48.4	54.1	59.1	61.9	64.8	66.2	66.9	66.9	67.6	66.9	66.9
110°	43.4	49.8	54.1	56.9	59.8	61.2	61.9	62.6	62.6	62.6	62.6

TEST NUMBER: P1213760

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	39.9	44.8	49.1	52.0	54.8	56.2	56.9	57.7	58.4	57.7	57.7
115°	35.6	40.6	44.8	47.7	49.8	51.3	52.7	53.4	53.4	54.1	53.4
117.5°	32.0	36.3	40.6	43.4	45.6	47.7	48.4	49.1	49.8	49.1	49.1
120°	28.5	32.7	36.3	39.2	41.3	43.4	44.1	44.8	45.6	44.8	44.8
122.5°	25.6	29.2	32.7	35.6	37.7	39.2	40.6	40.6	41.3	41.3	41.3
125°	22.8	26.3	29.2	32.0	34.2	35.6	36.3	37.0	37.0	37.7	37.7
127.5°	19.9	22.8	26.3	28.5	30.6	32.0	32.7	33.5	33.5	34.2	34.2
130°	17.1	19.9	22.8	24.9	27.0	28.5	29.2	29.9	30.6	30.6	30.6
132.5°	14.9	17.8	19.9	22.1	23.5	24.9	26.3	27.0	27.0	27.0	27.0
135°	12.1	14.9	17.1	19.2	20.6	22.1	22.8	24.2	24.2	24.2	24.2
137.5°	10.0	12.8	14.9	16.4	17.8	19.2	19.9	20.6	21.4	21.4	21.4
140°	7.8	10.0	12.1	14.2	15.7	16.4	17.8	17.8	18.5	18.5	18.5
142.5°	5.7	7.8	9.3	11.4	12.8	14.2	14.9	15.7	15.7	15.7	15.7
145°	4.3	5.7	7.1	8.5	10.7	11.4	12.1	12.8	13.5	13.5	13.5
147.5°	2.8	4.3	5.0	6.4	7.8	9.3	10.0	10.7	11.4	11.4	11.4
150°	2.1	2.8	4.3	5.0	5.7	7.1	8.5	8.5	9.3	9.3	8.5
152.5°	1.4	2.1	2.8	3.6	4.3	5.0	6.4	6.4	7.1	7.1	7.1
155°	1.4	1.4	1.4	2.1	2.8	3.6	4.3	5.0	5.0	5.0	5.0
157.5°	1.4	1.4	1.4	1.4	1.4	2.1	2.8	3.6	3.6	3.6	3.6
160°	1.4	1.4	0.7	0.7	1.4	1.4	1.4	1.4	2.1	2.1	2.1
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213760

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1
2.5°	1292.7	1294.1	1294.1	1292.7	1292.0	1294.8	1291.2	1277.7	1282.0	1283.4	1287.7
5°	1286.3	1287.7	1287.7	1287.7	1286.3	1289.1	1285.5	1272.0	1277.0	1279.1	1282.0
7.5°	1277.0	1277.7	1279.1	1278.4	1277.0	1281.3	1277.7	1264.2	1267.8	1271.3	1274.9
10°	1264.9	1264.9	1265.6	1267.0	1265.6	1269.2	1265.6	1253.5	1257.1	1259.2	1263.5
12.5°	1248.5	1250.0	1250.7	1250.0	1249.2	1252.1	1250.7	1239.3	1240.7	1245.0	1249.2
15°	1226.5	1226.5	1230.0	1228.6	1228.6	1231.4	1232.9	1220.1	1222.2	1228.6	1232.9
17.5°	1199.4	1200.1	1203.0	1204.4	1203.7	1208.7	1209.4	1199.4	1198.7	1206.5	1210.8
20°	1164.5	1166.0	1169.5	1172.4	1172.4	1178.1	1180.2	1173.8	1174.5	1183.0	1184.5
22.5°	1121.8	1121.8	1128.2	1132.5	1136.1	1139.6	1146.0	1140.3	1140.3	1151.7	1158.1
25°	1069.2	1074.1	1076.3	1084.8	1089.8	1099.8	1105.5	1106.2	1106.9	1117.6	1121.8
27.5°	1010.8	1012.2	1018.6	1028.6	1034.3	1043.5	1054.2	1056.3	1059.9	1074.1	1080.5
30°	944.6	948.9	951.7	965.9	973.8	985.9	999.4	1004.4	1007.2	1026.4	1034.3
32.5°	877.0	878.4	890.5	898.3	907.6	920.4	936.0	945.3	951.0	970.9	982.3
35°	809.3	812.2	822.2	832.1	841.4	854.2	870.6	883.4	893.3	911.1	926.1
37.5°	747.4	754.5	756.7	766.6	773.7	786.6	798.0	816.5	826.4	844.9	864.1
40°	691.9	694.0	695.4	705.4	710.4	722.5	738.9	751.0	764.5	778.0	800.8
42.5°	637.1	638.5	640.6	646.3	652.0	660.6	672.7	684.8	699.0	718.9	733.9
45°	586.5	588.0	589.4	592.9	597.9	605.8	613.6	622.1	636.4	653.5	669.1
47.5°	539.6	542.4	542.4	543.1	546.7	553.1	558.8	569.5	577.3	586.5	604.3
50°	494.7	496.9	497.6	497.6	499.7	504.0	505.4	512.5	519.6	528.2	541.0
52.5°	452.7	452.7	452.0	454.9	454.9	457.7	458.4	462.7	467.7	476.9	482.6
55°	412.9	412.9	415.0	413.6	413.6	415.0	414.3	415.0	419.3	425.0	429.9
57.5°	374.4	373.7	375.8	374.4	373.7	375.1	376.6	373.7	374.4	380.1	380.1
60°	336.0	336.7	338.8	337.4	337.4	337.4	336.0	334.6	333.1	336.7	338.1
62.5°	305.4	303.2	305.4	303.2	304.7	303.9	302.5	299.7	300.4	299.0	297.5
65°	273.3	273.3	274.1	271.9	273.3	273.3	271.2	270.5	266.2	264.8	261.2
67.5°	245.6	245.6	246.3	244.9	244.9	245.6	243.4	241.3	237.0	234.9	229.9
70°	221.4	221.4	221.4	220.7	220.7	220.7	219.2	216.4	212.1	208.6	202.2
72.5°	199.3	200.0	199.3	199.3	201.4	199.3	197.2	194.3	190.8	183.6	178.0
75°	181.5	182.2	181.5	181.5	181.5	180.8	180.1	175.8	171.5	165.9	157.3
77.5°	165.9	165.9	166.6	165.9	165.9	165.1	163.0	159.4	154.5	149.5	139.5
80°	150.9	151.6	152.3	153.0	151.6	150.9	148.8	145.9	139.5	133.8	123.9
82.5°	140.2	139.5	140.2	140.9	139.5	138.8	136.7	133.1	128.1	120.3	110.3
85°	129.6	128.8	128.8	129.6	128.8	127.4	125.3	121.7	116.7	108.9	98.9
87.5°	118.9	119.6	120.3	119.6	118.9	117.5	115.3	111.8	106.1	99.7	89.0
90°	111.0	111.0	111.0	111.0	110.3	108.9	106.8	102.5	97.5	89.7	80.4
92.5°	103.9	103.9	103.9	103.9	103.2	101.1	98.9	95.4	89.7	81.9	73.3
95°	96.8	97.5	96.8	96.8	95.4	94.7	91.1	87.6	82.6	74.7	65.5
97.5°	89.0	89.7	89.0	89.0	88.3	86.8	84.7	80.4	75.5	68.3	59.8
100°	83.3	83.3	82.6	82.6	81.9	80.4	77.6	74.0	69.0	61.9	53.4
102.5°	76.9	77.6	76.9	76.9	75.5	74.0	71.9	68.3	63.4	56.2	48.4
105°	71.9	71.9	71.2	71.2	69.8	68.3	66.2	61.9	57.7	51.3	43.4
107.5°	66.9	66.9	66.2	66.2	64.8	63.4	60.5	56.9	52.7	46.3	39.2
110°	61.9	61.9	61.9	61.2	59.8	57.7	55.5	52.0	47.7	42.0	34.9



TEST NUMBER: P1213760

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	58.4	57.7	56.9	56.2	54.8	53.4	50.5	47.0	42.7	37.7	31.3
115°	53.4	53.4	52.7	52.0	50.5	48.4	46.3	43.4	39.2	33.5	27.8
117.5°	49.1	49.1	48.4	47.7	46.3	44.1	42.0	39.2	34.9	29.9	24.9
120°	44.8	44.8	44.1	43.4	42.0	39.9	38.4	34.9	31.3	26.3	22.1
122.5°	41.3	40.6	40.6	39.2	38.4	36.3	34.2	31.3	27.8	23.5	19.2
125°	37.0	37.0	36.3	35.6	34.9	32.7	30.6	27.8	24.2	20.6	17.1
127.5°	33.5	33.5	32.7	32.0	31.3	29.2	27.0	24.9	21.4	17.8	14.2
130°	29.9	29.9	29.2	28.5	27.8	25.6	24.2	21.4	18.5	15.7	12.1
132.5°	27.0	27.0	26.3	25.6	24.2	22.8	21.4	18.5	16.4	13.5	10.7
135°	24.2	23.5	23.5	22.8	21.4	19.9	18.5	16.4	13.5	11.4	8.5
137.5°	21.4	20.6	19.9	19.2	18.5	17.1	15.7	14.2	12.1	9.3	7.1
140°	18.5	17.8	17.8	17.1	15.7	14.9	13.5	11.4	10.0	7.8	5.7
142.5°	15.7	15.7	14.9	14.2	13.5	12.8	11.4	10.0	7.8	6.4	4.3
145°	13.5	12.8	12.8	12.1	11.4	10.0	9.3	7.8	6.4	5.0	3.6
147.5°	10.7	10.7	10.7	10.0	9.3	8.5	7.8	6.4	5.0	3.6	2.1
150°	8.5	8.5	8.5	7.8	7.1	6.4	5.7	5.0	3.6	2.1	1.4
152.5°	7.1	7.1	6.4	6.4	5.7	5.0	4.3	3.6	2.1	1.4	1.4
155°	5.0	5.0	5.0	4.3	4.3	3.6	2.8	2.1	1.4	1.4	1.4
157.5°	3.6	3.6	3.6	2.8	2.8	2.1	2.1	1.4	1.4	1.4	1.4
160°	2.1	2.1	2.1	2.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213760

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1	1294.1
2.5°	1285.5	1284.8	1290.5	1290.5	1284.1	1294.1	1304.8
5°	1281.3	1280.6	1286.3	1286.3	1280.6	1290.5	1301.9
7.5°	1272.7	1273.4	1279.1	1280.6	1273.4	1282.7	1294.8
10°	1263.5	1262.8	1269.2	1270.6	1264.9	1273.4	1284.8
12.5°	1248.5	1248.5	1254.9	1257.1	1251.4	1261.3	1272.0
15°	1232.9	1232.9	1237.1	1240.7	1235.7	1245.0	1255.7
17.5°	1212.9	1212.2	1216.5	1220.8	1215.8	1225.8	1237.1
20°	1187.3	1187.3	1192.3	1197.3	1193.7	1203.0	1215.8
22.5°	1160.3	1157.4	1166.0	1169.5	1167.4	1176.6	1189.5
25°	1126.1	1125.4	1133.9	1138.9	1136.1	1146.0	1157.4
27.5°	1089.1	1088.4	1096.9	1103.3	1101.9	1111.2	1124.0
30°	1044.2	1047.8	1055.6	1066.3	1062.7	1072.7	1086.2
32.5°	997.3	1000.8	1010.1	1021.5	1022.2	1030.0	1043.5
35°	941.0	950.3	956.7	971.6	974.5	982.3	996.5
37.5°	881.9	892.6	906.1	917.5	923.2	929.6	946.0
40°	815.7	831.4	846.4	859.9	867.0	873.4	889.1
42.5°	756.0	768.1	782.3	795.8	808.6	814.3	830.7
45°	688.3	702.6	715.4	731.8	744.6	751.0	767.3
47.5°	622.1	636.4	653.5	664.8	678.4	684.8	700.4
50°	558.8	571.6	585.8	599.4	610.7	616.4	630.0
52.5°	496.1	509.7	523.2	531.7	543.8	548.1	559.5
55°	440.6	449.9	462.0	467.0	479.1	481.9	489.7
57.5°	387.2	393.6	397.9	406.4	415.0	421.4	430.7
60°	338.8	341.7	344.5	349.5	356.6	358.8	362.3
62.5°	295.4	294.7	300.4	301.8	302.5	309.6	306.1
65°	257.0	257.7	252.7	250.6	253.4	255.5	254.1
67.5°	224.9	220.7	216.4	211.4	207.1	209.3	207.1
70°	193.6	190.1	182.9	175.8	173.0	168.7	166.6
72.5°	168.7	160.2	153.0	143.8	138.8	133.8	130.3
75°	149.5	137.4	127.4	117.5	110.3	103.2	101.8
77.5°	129.6	118.2	106.8	96.1	85.4	77.6	74.7
80°	113.9	103.2	89.7	76.9	65.5	55.5	52.0
82.5°	99.7	88.3	74.7	61.2	48.4	37.7	33.5
85°	87.6	75.5	61.9	48.4	35.6	24.2	18.5
87.5°	78.3	64.8	51.3	38.4	24.9	13.5	7.1
90°	69.8	56.9	44.1	30.6	17.8	7.1	0.0
92.5°	61.9	49.8	37.0	24.9	13.5	4.3	0.7
95°	54.8	44.1	31.3	19.9	10.0	2.8	0.7
97.5°	49.1	38.4	27.0	16.4	7.8	2.1	0.7
100°	44.1	33.5	23.5	13.5	6.4	1.4	0.7
102.5°	39.2	29.9	19.9	11.4	5.0	0.7	0.7
105°	34.9	26.3	17.1	10.0	4.3	0.7	0.7
107.5°	31.3	23.5	14.9	8.5	2.8	0.7	0.7
110°	27.8	19.9	12.8	7.1	2.1	0.7	0.7

TEST NUMBER: P1213760

CATALOG NUMBER: 4SNLED-LD5-37SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	24.9	17.8	11.4	5.7	1.4	0.7	0.7
115°	22.1	15.7	10.0	5.0	1.4	0.7	0.7
117.5°	19.2	13.5	8.5	3.6	0.7	0.7	0.7
120°	17.1	12.1	7.1	2.8	0.7	0.7	0.7
122.5°	14.9	10.0	5.7	2.1	0.7	0.7	0.7
125°	12.8	8.5	5.0	1.4	0.7	0.7	0.7
127.5°	10.7	7.1	3.6	1.4	0.7	0.7	0.7
130°	9.3	5.7	2.8	0.7	0.7	0.7	0.7
132.5°	7.8	4.3	2.1	0.7	0.7	0.7	0.7
135°	6.4	3.6	1.4	0.7	0.7	0.7	0.7
137.5°	5.0	2.8	1.4	0.7	0.7	0.7	0.7
140°	3.6	2.1	0.7	0.7	0.7	0.7	0.7
142.5°	2.8	1.4	0.7	0.7	0.7	0.7	0.7
145°	2.1	1.4	0.7	0.7	0.7	0.7	0.7
147.5°	1.4	1.4	1.4	1.4	0.7	0.7	0.7
150°	1.4	1.4	0.7	0.7	1.4	0.7	0.7
152.5°	1.4	0.7	0.7	0.7	1.4	0.7	0.7
155°	1.4	1.4	1.4	1.4	1.4	1.4	0.7
157.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4
160°	1.4	1.4	1.4	1.4	1.4	1.4	1.4
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)