

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: P1212996

Luminaire Tested: 2SNLED-LD5-34HL-LC-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1212996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33518)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2SNLED-LD5-34HL-LC-UNV-L930-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

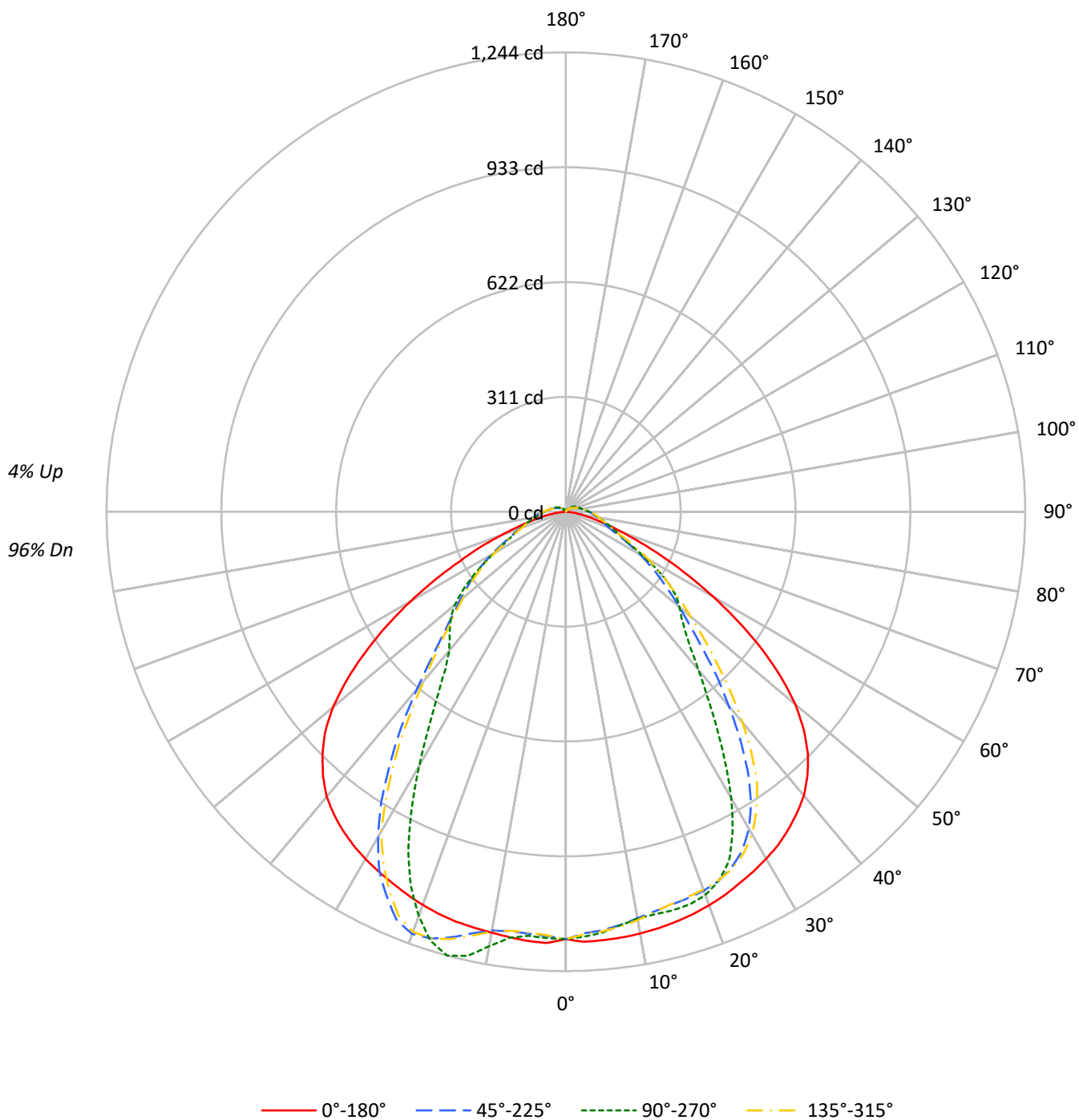
Lumens per Lamp: N/A
Luminaire Lumens: 2759.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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



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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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	98	98	96
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	84	84	82
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	73	73	71
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	63	63	61
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	56	56	54
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	49	49	47
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	44	44	42
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	40	40	38
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	36	36	34
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	33	33	31
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18704	18704	18704	18704
5°	18790	17964	18829	18103
10°	18825	17217	18786	18385
15°	18918	16986	18909	18913
20°	19070	16716	19050	17621
25°	19246	15858	19236	15324
30°	19543	13745	19554	12177
35°	19854	11115	19910	9405
40°	20109	8948	20193	7884
45°	19946	7580	20049	7382
50°	18983	6978	19249	6824
55°	16732	6272	17151	5703
60°	13460	4801	14175	4403
65°	9898	3674	10663	3483
70°	6630	3171	7473	3031
75°	4238	2861	4932	2705
80°	2632	2668	3079	2454
85°	1233	2660	1612	2429

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 20049 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	4.0
10°-20°	327.1	11.9
20°-30°	497.3	18.0
30°-40°	533.4	19.3
40°-50°	463.0	16.8
50°-60°	343.1	12.4
60°-70°	196.6	7.1
70°-80°	108.9	3.9
80°-90°	66.3	2.4
90°-100°	43.1	1.6
100°-110°	28.9	1.0
110°-120°	19.5	0.7
120°-130°	12.0	0.4
130°-140°	6.3	0.2
140°-150°	2.9	0.1
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	934.3	33.9
0°-40°	1467.7	53.2
0°-60°	2273.8	82.4
0°-90°	2645.6	95.9
90°-120°	91.5	3.3
90°-150°	112.6	4.1
90°-180°	113.0	4.1
0°-180°	2759.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1157	1157	1157	1157	1157	
5°	1164	1144	1167	1152	1164	111
15°	1150	1117	1149	1244	1150	325
25°	1111	1045	1110	1010	1111	513
35°	1050	711	1053	602	1050	657
45°	927	456	932	444	927	710
55°	647	342	663	311	647	574
65°	294	173	316	164	294	296
75°	84	110	97	104	84	96
85°	11	76	15	69	11	15
90°	0	63	1	59	0	0
95°	1	52	0	50	1	0
105°	1	39	1	37	1	1
115°	1	32	1	29	1	1
125°	1	24	1	20	1	1
135°	1	15	1	13	1	0
145°	1	9	1	7	1	0
155°	1	4	1	4	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°	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3
2.5°	1165.7	1162.7	1161.5	1159.1	1160.9	1168.1	1163.3	1155.5	1156.1	1142.4	1149.6
5°	1164.5	1160.9	1159.1	1156.7	1157.9	1164.5	1159.7	1152.0	1151.4	1137.6	1144.2
7.5°	1162.7	1159.1	1156.1	1154.3	1154.9	1160.3	1154.3	1145.4	1143.6	1128.6	1134.6
10°	1159.7	1157.3	1153.1	1150.2	1149.6	1155.5	1146.0	1137.0	1132.8	1117.3	1123.3
12.5°	1155.5	1152.0	1147.8	1142.4	1141.8	1145.4	1137.6	1125.0	1120.9	1108.3	1114.9
15°	1149.6	1145.4	1140.6	1134.6	1131.6	1134.0	1124.5	1113.1	1112.5	1101.7	1110.7
17.5°	1143.0	1137.0	1131.6	1123.3	1119.1	1120.9	1113.1	1102.9	1104.1	1097.6	1107.7
20°	1134.0	1127.4	1119.1	1110.7	1104.7	1107.7	1102.3	1094.6	1096.4	1091.6	1100.5
22.5°	1123.9	1114.9	1104.7	1095.2	1090.4	1094.6	1090.4	1083.8	1084.4	1081.4	1086.8
25°	1110.7	1100.5	1088.6	1076.6	1074.2	1077.2	1074.8	1069.5	1067.1	1062.3	1064.7
27.5°	1098.7	1087.4	1072.4	1059.9	1055.7	1061.7	1056.3	1047.3	1040.8	1034.2	1029.4
30°	1085.0	1071.2	1054.5	1040.2	1036.6	1039.0	1031.2	1017.4	1000.1	991.7	978.6
32.5°	1070.1	1052.1	1031.2	1015.1	1012.7	1010.9	996.5	976.8	949.9	933.2	912.8
35°	1050.3	1030.6	1005.5	985.8	982.2	972.0	948.7	922.4	887.7	859.0	824.4
37.5°	1028.2	1004.9	978.6	952.3	942.1	921.8	888.9	861.4	808.8	774.1	732.3
40°	1003.1	975.0	942.7	911.0	894.3	861.4	823.8	783.1	732.3	685.7	650.4
42.5°	968.4	938.5	900.3	865.0	836.3	792.7	748.4	691.1	644.4	605.0	569.1
45°	927.2	891.3	847.1	804.6	768.2	716.2	664.1	606.8	567.9	521.9	497.4
47.5°	874.0	835.1	787.9	740.7	692.8	635.5	581.1	526.1	487.2	454.3	436.4
50°	811.2	775.3	723.3	667.1	614.5	554.8	500.4	459.1	421.4	401.1	387.4
52.5°	733.5	700.0	646.8	585.8	535.0	476.4	426.8	393.3	366.4	351.5	346.7
55°	646.8	617.5	564.9	508.1	456.1	402.3	364.7	335.4	318.0	309.1	309.7
57.5°	554.2	531.4	481.8	431.0	382.0	341.3	307.3	284.0	270.8	270.2	272.0
60°	461.5	444.8	401.7	358.1	315.0	282.2	257.1	240.9	232.5	233.1	232.5
62.5°	373.0	357.5	326.4	290.5	256.5	234.3	211.6	205.0	197.9	197.3	197.3
65°	293.5	281.6	256.5	230.7	205.0	190.7	179.3	171.6	166.2	165.0	165.6
67.5°	220.6	215.8	198.5	181.1	165.0	156.0	146.5	144.7	140.5	140.5	141.7
70°	164.4	160.8	151.2	141.1	134.5	128.5	123.7	123.7	123.1	122.5	125.5
72.5°	119.0	119.6	116.6	108.8	108.2	107.0	105.8	107.6	108.2	110.0	113.6
75°	83.7	85.5	85.5	84.3	86.7	89.7	91.5	94.5	98.0	100.4	104.6
77.5°	59.2	59.2	62.2	65.8	70.5	75.9	80.7	84.9	89.7	92.7	96.2
80°	38.3	40.1	44.8	51.4	58.0	65.2	71.7	77.1	81.9	86.7	89.1
82.5°	22.7	25.7	31.7	40.1	48.4	57.4	64.0	70.5	75.9	80.7	82.5
85°	11.4	15.5	22.7	31.7	40.7	50.2	58.6	64.6	70.5	74.7	77.1
87.5°	3.6	8.4	16.1	24.5	34.1	43.6	52.6	59.2	64.6	68.1	70.5
90°	0.0	4.2	11.4	20.3	29.3	38.9	47.2	54.4	59.8	62.8	64.6
92.5°	0.0	2.4	9.0	16.7	25.1	34.7	43.0	49.6	54.4	57.4	58.6
95°	0.6	1.8	6.6	13.7	22.1	31.1	38.9	44.8	49.6	52.6	53.2
97.5°	0.6	1.2	5.4	11.4	19.1	27.5	35.3	41.2	44.8	47.8	48.4
100°	0.6	1.2	4.2	10.2	16.7	24.5	31.7	37.1	41.2	43.6	44.2
102.5°	0.6	0.6	3.6	8.4	14.9	21.5	28.1	33.5	37.1	39.5	40.7
105°	0.6	0.6	3.0	7.2	13.2	19.1	25.1	30.5	33.5	35.9	37.1
107.5°	0.6	0.6	2.4	6.0	11.4	16.7	22.7	26.9	30.5	32.9	34.1
110°	0.6	0.6	1.8	5.4	9.6	14.9	19.7	23.9	27.5	29.9	31.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.6	0.6	1.8	4.8	8.4	13.2	17.3	21.5	24.5	26.9	28.7
115°	0.6	0.6	1.8	4.2	7.8	11.4	15.5	19.1	22.1	24.5	26.3
117.5°	0.6	0.6	1.8	3.6	6.6	10.2	13.7	17.3	19.7	22.1	23.9
120°	0.6	0.6	1.2	3.0	6.0	9.0	12.0	14.9	17.9	20.3	22.1
122.5°	0.6	0.6	1.2	3.0	4.8	7.8	10.8	13.2	16.1	17.9	19.7
125°	0.6	0.6	1.2	2.4	4.2	7.2	9.6	12.0	13.7	16.1	17.9
127.5°	0.6	0.6	1.2	2.4	3.6	6.0	8.4	10.8	12.6	14.3	15.5
130°	0.6	0.6	1.2	1.8	3.0	4.8	7.2	9.0	11.4	12.6	13.7
132.5°	0.6	0.6	0.6	1.8	2.4	3.6	5.4	7.8	9.6	11.4	12.0
135°	0.6	0.6	0.6	1.2	2.4	3.0	4.2	6.0	7.8	9.6	10.8
137.5°	0.6	0.6	0.6	1.2	1.8	3.0	3.6	4.8	6.6	7.8	9.6
140°	0.6	0.6	0.6	1.2	1.8	2.4	3.0	4.2	5.4	6.6	7.8
142.5°	0.6	0.6	0.6	1.2	1.2	1.8	2.4	3.6	4.2	5.4	6.6
145°	0.6	0.6	0.6	1.2	1.2	1.8	2.4	3.0	3.6	4.2	5.4
147.5°	0.6	0.6	0.6	1.2	1.2	1.2	1.8	2.4	3.0	3.6	4.2
150°	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	2.4	3.0	3.6
152.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	2.4	3.0
155°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	2.4	2.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3
2.5°	1147.2	1148.4	1155.5	1154.9	1153.7	1152.5	1152.5	1151.4	1152.5	1155.5	1154.3
5°	1141.2	1143.0	1148.4	1147.8	1146.6	1146.0	1145.4	1143.6	1144.8	1149.0	1147.8
7.5°	1130.4	1132.2	1137.0	1134.6	1132.8	1134.0	1131.0	1129.2	1131.6	1135.8	1135.2
10°	1119.1	1120.3	1126.2	1125.0	1122.1	1122.7	1119.7	1118.5	1121.5	1123.9	1124.5
12.5°	1111.3	1115.5	1120.9	1120.3	1119.7	1120.3	1117.3	1116.1	1117.9	1120.3	1119.7
15°	1109.5	1114.9	1120.9	1120.9	1121.5	1122.1	1119.1	1117.3	1119.1	1120.9	1120.3
17.5°	1107.7	1114.3	1119.7	1119.1	1119.7	1120.9	1116.1	1114.9	1117.3	1119.7	1118.5
20°	1101.7	1107.7	1111.3	1110.1	1110.1	1110.7	1104.7	1104.7	1108.3	1110.1	1110.7
22.5°	1085.0	1092.2	1092.2	1089.2	1089.2	1086.8	1085.0	1081.4	1085.6	1088.6	1091.0
25°	1059.9	1062.9	1059.3	1052.7	1049.1	1046.1	1037.8	1044.9	1044.9	1053.9	1056.9
27.5°	1024.6	1018.0	1007.9	994.1	991.1	981.6	976.2	978.0	981.0	993.5	1003.1
30°	966.6	946.9	929.6	923.6	910.4	900.9	891.3	896.1	901.5	908.6	928.4
32.5°	890.1	871.0	842.9	832.7	819.0	807.0	795.7	802.8	812.4	817.2	838.7
35°	802.2	779.5	753.8	736.5	722.1	715.6	701.2	711.4	721.5	725.1	743.7
37.5°	709.0	685.7	663.0	648.0	634.3	630.1	620.5	627.7	635.5	640.8	656.4
40°	620.5	599.0	581.7	571.5	561.9	558.3	554.8	557.7	563.7	567.9	579.9
42.5°	544.6	527.3	515.3	509.3	502.7	498.0	498.6	499.8	502.7	511.7	517.1
45°	478.2	468.1	460.3	459.1	454.9	454.3	453.7	456.1	457.9	463.3	467.5
47.5°	425.0	420.8	419.1	421.4	423.2	420.8	422.0	425.0	428.6	428.6	428.0
50°	383.2	384.4	386.8	392.2	395.7	396.9	398.1	401.7	402.3	403.5	401.7
52.5°	349.1	350.3	356.9	365.3	369.4	371.2	373.6	377.2	377.2	378.4	376.0
55°	314.4	316.2	322.8	331.2	334.8	337.2	339.5	341.9	343.7	346.1	344.3
57.5°	276.2	281.6	285.7	288.1	290.5	292.3	294.1	294.7	298.3	298.9	301.9
60°	235.5	236.7	240.9	240.3	238.5	243.3	240.9	245.1	249.3	254.7	255.3
62.5°	196.7	197.3	200.3	199.1	201.5	200.9	202.7	202.7	205.6	208.0	211.0
65°	166.2	166.8	169.2	169.2	168.6	170.4	172.2	173.4	173.4	175.2	177.5
67.5°	143.5	145.3	147.7	148.9	150.0	150.0	151.8	152.4	153.6	154.2	155.4
70°	127.9	130.3	132.7	133.9	134.5	135.7	136.3	136.3	137.5	138.1	139.3
72.5°	116.6	119.0	120.8	120.8	122.0	122.5	122.5	123.1	123.7	124.9	126.1
75°	107.0	108.8	110.0	109.4	109.4	109.4	110.0	110.0	111.2	112.4	113.6
77.5°	98.0	99.8	99.8	98.6	98.6	98.6	98.6	99.2	99.8	101.0	102.2
80°	91.5	91.5	90.9	90.9	89.7	89.1	89.1	89.7	89.7	90.9	92.7
82.5°	84.3	84.3	83.7	83.1	82.5	81.9	81.9	82.5	83.1	83.7	84.9
85°	77.7	77.7	76.5	76.5	75.9	75.9	75.9	75.9	76.5	77.1	78.3
87.5°	71.1	70.5	69.9	69.3	69.3	69.3	69.3	69.3	69.9	71.1	71.7
90°	64.6	64.0	63.4	63.4	62.8	62.8	63.4	63.4	64.0	64.6	65.2
92.5°	58.6	58.0	57.4	57.4	56.8	56.8	57.4	56.8	58.0	58.0	58.6
95°	53.2	52.6	52.0	52.0	52.0	52.0	52.0	52.0	52.6	52.6	53.2
97.5°	48.4	47.8	47.2	47.2	47.8	47.2	47.8	47.8	47.8	48.4	49.0
100°	44.2	43.6	43.6	44.2	43.6	43.6	44.2	44.2	44.2	44.2	44.8
102.5°	40.7	40.7	40.7	40.7	40.7	40.7	41.2	41.2	41.2	41.2	41.8
105°	37.1	37.7	37.7	37.7	38.3	38.3	38.3	38.9	38.9	38.9	38.9
107.5°	34.7	35.3	35.3	35.9	35.9	36.5	36.5	36.5	36.5	37.1	37.1
110°	32.3	32.9	33.5	34.1	34.1	34.7	34.7	34.7	34.7	34.7	34.7

TEST NUMBER: P1212996

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	29.9	30.5	31.1	32.3	32.9	32.9	32.9	32.9	33.5	33.5	32.9
115°	27.5	28.7	29.3	30.5	31.1	31.1	31.7	31.7	31.7	31.7	31.1
117.5°	25.1	26.9	27.5	28.7	29.3	29.3	29.9	29.9	29.9	29.9	29.3
120°	23.3	24.5	25.7	26.3	26.9	27.5	27.5	28.1	28.1	28.1	27.5
122.5°	21.5	22.7	23.9	24.5	25.1	25.7	25.7	25.7	25.7	25.7	25.7
125°	19.1	20.3	21.5	22.1	22.7	23.3	23.3	23.9	23.9	23.9	23.3
127.5°	17.3	18.5	19.1	20.3	20.9	20.9	21.5	21.5	21.5	21.5	20.9
130°	14.9	16.1	17.3	17.9	18.5	18.5	19.1	19.1	19.1	19.1	19.1
132.5°	13.2	14.3	14.9	16.1	16.1	16.7	16.7	17.3	17.3	17.3	16.7
135°	12.0	12.6	13.2	14.3	14.3	14.9	14.9	14.9	14.9	14.9	14.9
137.5°	10.8	11.4	12.0	12.6	12.6	13.2	13.2	13.2	13.2	13.7	13.2
140°	9.0	10.2	10.8	10.8	11.4	11.4	11.4	12.0	12.0	12.0	11.4
142.5°	7.8	8.4	9.0	9.6	10.2	10.2	10.2	10.2	10.8	10.2	10.2
145°	6.0	7.2	7.8	8.4	9.0	9.0	9.0	9.0	9.0	9.0	9.0
147.5°	4.8	5.4	6.6	7.2	7.2	7.8	7.8	7.8	7.8	7.8	7.8
150°	4.2	4.2	5.4	6.0	6.6	6.6	6.6	6.6	6.6	6.6	6.6
152.5°	3.0	3.6	4.2	4.8	5.4	5.4	5.4	5.4	5.4	5.4	5.4
155°	3.0	3.0	3.6	3.6	4.2	4.2	4.2	4.2	4.8	4.2	4.2
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1212996

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3
2.5°	1152.5	1152.0	1154.3	1152.0	1140.0	1144.8	1143.0	1149.6	1150.2	1152.0	1157.9
5°	1146.6	1146.6	1149.6	1147.2	1135.8	1140.6	1140.0	1146.6	1147.8	1149.0	1155.5
7.5°	1134.6	1135.2	1139.4	1137.6	1125.6	1132.8	1132.2	1140.0	1142.4	1144.8	1150.8
10°	1123.3	1122.7	1127.4	1125.6	1114.3	1122.7	1122.1	1129.8	1133.4	1137.6	1144.8
12.5°	1117.3	1115.5	1117.3	1115.5	1102.9	1109.5	1110.1	1119.1	1123.3	1128.6	1137.0
15°	1117.3	1114.3	1114.3	1110.7	1096.4	1100.5	1101.1	1107.1	1112.5	1117.9	1128.0
17.5°	1116.1	1113.1	1112.5	1109.5	1094.0	1094.0	1093.4	1097.6	1100.5	1105.9	1116.7
20°	1109.5	1108.3	1107.7	1105.9	1091.6	1089.2	1088.0	1088.0	1089.8	1091.6	1102.3
22.5°	1092.2	1093.4	1094.6	1095.8	1084.4	1080.2	1080.8	1079.6	1077.8	1077.8	1086.8
25°	1059.9	1065.9	1070.7	1076.0	1069.5	1066.5	1070.1	1068.3	1065.3	1062.9	1070.7
27.5°	1008.5	1021.0	1031.2	1044.3	1044.9	1042.6	1052.1	1050.9	1050.3	1046.7	1052.7
30°	937.3	957.1	970.8	989.9	1006.1	1008.5	1024.6	1027.0	1029.4	1027.6	1033.6
32.5°	851.3	878.2	901.5	931.4	946.9	960.7	983.4	992.9	1002.5	1005.5	1012.1
35°	757.4	787.9	815.4	848.3	872.8	902.7	930.2	944.5	966.0	974.4	984.0
37.5°	668.3	697.0	723.9	756.8	796.3	827.3	861.4	893.7	923.0	935.0	949.3
40°	589.4	612.7	638.4	667.1	703.0	743.7	780.7	825.6	860.2	884.1	905.1
42.5°	529.6	541.0	563.1	588.8	617.5	658.8	696.4	746.6	788.5	822.6	857.2
45°	476.4	481.8	498.0	511.7	541.0	577.5	617.5	666.5	710.2	753.8	795.7
47.5°	431.0	437.6	445.4	453.7	474.6	505.1	539.8	584.0	627.7	678.5	726.3
50°	400.5	402.3	403.5	407.1	419.7	440.6	468.7	506.3	548.2	602.6	653.4
52.5°	373.6	373.6	370.0	368.2	373.0	386.2	402.3	429.2	472.3	522.5	576.3
55°	344.9	339.5	338.4	332.4	333.6	339.5	347.3	368.2	403.5	446.6	498.6
57.5°	304.9	302.5	302.5	300.1	295.3	298.3	300.1	315.0	340.1	377.2	422.6
60°	258.8	257.6	260.6	261.2	257.1	258.8	258.2	267.2	285.1	315.0	352.7
62.5°	212.8	218.2	218.8	221.2	218.8	218.2	221.2	229.0	237.9	260.6	289.9
65°	178.7	181.7	182.3	185.3	184.1	184.1	186.5	192.5	197.9	213.4	236.1
67.5°	156.6	155.4	156.0	157.8	156.0	155.4	157.2	160.8	165.0	174.6	190.7
70°	139.3	138.1	138.1	138.1	135.7	133.9	134.5	135.7	137.5	142.9	153.0
72.5°	126.1	126.1	124.3	122.5	120.8	119.6	118.4	117.2	116.6	118.4	123.7
75°	114.2	114.8	114.2	112.4	110.0	107.6	105.2	102.8	99.8	98.6	99.2
77.5°	103.4	104.0	104.6	104.0	101.6	98.6	95.0	91.5	87.3	83.1	80.7
80°	93.9	95.0	95.6	95.0	93.3	90.9	86.7	82.5	76.5	71.1	65.2
82.5°	85.5	87.3	87.9	87.9	86.7	84.3	79.5	74.7	68.1	61.0	53.2
85°	78.9	80.1	81.3	81.3	80.7	78.3	73.5	68.1	61.6	53.2	44.8
87.5°	72.3	72.9	74.1	75.3	74.1	71.7	67.6	61.6	55.0	46.6	37.1
90°	65.8	66.4	67.6	68.7	68.1	65.8	62.2	56.8	49.6	40.7	31.1
92.5°	59.2	60.4	61.0	61.6	62.2	60.4	57.4	52.0	44.8	35.9	26.9
95°	54.4	54.4	55.6	56.2	56.8	55.0	52.6	47.2	40.7	32.3	23.3
97.5°	49.6	49.6	50.8	50.8	51.4	50.2	47.8	43.0	36.5	28.7	19.7
100°	44.8	45.4	46.0	46.6	46.6	46.0	43.6	38.9	32.9	25.7	17.3
102.5°	41.8	41.8	42.4	42.4	43.0	41.8	39.5	35.3	29.3	22.7	14.9
105°	38.9	38.9	39.5	39.5	38.9	37.7	35.3	31.7	26.3	19.7	13.2
107.5°	36.5	36.5	36.5	36.5	35.9	34.7	32.3	28.1	23.3	17.9	12.0
110°	34.7	34.1	34.1	33.5	32.9	31.1	28.7	25.1	20.9	15.5	10.2

TEST NUMBER: P1212996

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	32.9	32.3	31.7	31.1	29.9	28.1	25.7	22.7	18.5	13.7	9.0
115°	31.1	30.5	29.9	28.7	27.5	25.7	23.3	20.3	16.1	12.0	7.8
117.5°	29.3	28.7	27.5	26.3	25.1	23.3	20.9	17.9	14.3	10.8	7.2
120°	26.9	26.3	25.7	24.5	23.3	20.9	18.5	16.1	12.6	9.6	6.0
122.5°	25.1	24.5	23.3	22.7	20.9	19.1	16.7	14.3	11.4	8.4	5.4
125°	22.7	22.1	21.5	20.3	19.1	16.7	14.9	12.6	10.2	7.2	4.2
127.5°	20.9	20.3	19.1	17.9	16.7	14.9	13.2	11.4	9.0	6.0	4.2
130°	18.5	17.9	17.3	16.1	14.9	13.2	12.0	9.6	7.8	5.4	3.6
132.5°	16.1	16.1	15.5	14.3	13.2	12.0	10.2	8.4	6.6	4.8	3.0
135°	14.9	14.3	13.7	12.6	12.0	10.2	9.0	7.2	5.4	4.2	2.4
137.5°	13.2	12.6	12.0	11.4	10.2	9.0	7.8	6.0	4.8	3.6	2.4
140°	11.4	10.8	10.8	9.6	9.0	7.8	6.6	5.4	4.2	3.0	1.8
142.5°	10.2	9.6	9.0	8.4	7.8	6.6	5.4	4.2	3.6	2.4	1.8
145°	9.0	8.4	7.8	7.2	6.6	5.4	4.8	3.6	3.0	2.4	1.8
147.5°	7.2	7.2	6.6	6.0	5.4	4.8	4.2	3.6	2.4	1.8	1.2
150°	6.0	6.0	5.4	4.8	4.8	4.2	3.6	3.0	2.4	1.8	1.2
152.5°	5.4	4.8	4.8	4.2	4.2	3.6	3.0	2.4	1.8	1.8	1.2
155°	4.2	4.2	4.2	3.6	3.6	3.0	2.4	2.4	1.8	1.2	1.2
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1212996

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3
2.5°	1159.1	1152.0	1157.9	1168.7	1167.5	1166.3	1165.1	1167.5	1175.3	1171.1	1164.5
5°	1157.3	1150.2	1156.7	1166.9	1166.3	1164.5	1163.3	1165.7	1173.5	1169.3	1162.1
7.5°	1153.7	1147.2	1152.0	1162.1	1162.1	1160.9	1159.7	1162.1	1169.3	1165.7	1158.5
10°	1147.8	1143.0	1147.8	1157.3	1157.9	1155.5	1154.3	1157.3	1164.5	1162.7	1156.7
12.5°	1143.0	1138.2	1143.6	1153.1	1153.7	1151.4	1149.6	1153.1	1162.7	1163.9	1162.1
15°	1136.4	1132.2	1138.8	1149.0	1149.0	1147.2	1147.2	1152.0	1165.1	1170.5	1173.5
17.5°	1126.8	1123.9	1131.6	1141.8	1142.4	1141.2	1141.8	1151.4	1168.7	1181.8	1190.2
20°	1114.9	1113.7	1122.1	1132.8	1134.6	1135.2	1138.2	1152.5	1176.5	1194.4	1202.8
22.5°	1100.5	1101.1	1110.7	1122.1	1124.5	1126.2	1132.2	1152.5	1182.4	1201.6	1205.2
25°	1084.4	1086.2	1096.4	1110.1	1113.1	1116.7	1126.8	1153.1	1184.2	1196.8	1190.8
27.5°	1067.1	1070.7	1083.8	1098.1	1101.7	1107.7	1120.9	1149.6	1175.9	1176.5	1154.3
30°	1049.1	1053.3	1068.9	1085.6	1091.6	1097.6	1113.7	1141.2	1155.5	1136.4	1097.6
32.5°	1028.8	1034.8	1050.3	1070.7	1077.8	1085.6	1101.7	1125.0	1119.7	1078.4	1022.8
35°	1003.1	1011.5	1029.4	1053.3	1059.9	1070.1	1081.4	1086.8	1062.9	1004.3	941.5
37.5°	971.4	984.0	1004.9	1032.4	1039.6	1046.1	1049.1	1034.2	986.4	923.0	857.8
40°	935.0	954.1	976.8	1007.3	1014.5	1014.5	1003.7	972.0	911.6	828.5	756.2
42.5°	890.7	914.0	942.7	973.2	980.4	972.0	946.3	890.7	822.0	729.3	652.8
45°	836.9	868.0	900.3	932.0	935.5	917.0	871.0	800.4	715.6	629.5	556.5
47.5°	772.9	813.6	848.9	884.7	880.0	848.9	787.3	707.2	617.5	536.2	477.6
50°	701.2	749.0	788.5	822.6	812.4	769.4	697.0	613.3	524.3	454.9	406.5
52.5°	624.7	679.7	719.1	746.6	732.9	681.5	602.0	521.9	448.9	385.6	353.3
55°	545.2	600.8	641.4	663.0	645.0	589.4	511.1	438.2	369.4	328.2	309.1
57.5°	468.1	520.1	558.3	575.7	553.0	497.4	425.0	363.5	313.8	279.2	269.6
60°	393.9	436.4	472.9	486.0	461.5	410.1	347.9	298.9	262.4	238.5	233.7
62.5°	325.2	359.9	388.6	398.7	374.8	334.8	281.0	244.5	218.8	206.8	200.9
65°	268.4	288.7	318.0	316.2	301.9	264.8	225.4	199.7	182.9	175.2	171.6
67.5°	211.0	229.6	248.1	250.5	232.5	206.8	181.1	162.6	153.6	149.4	147.7
70°	163.2	176.9	188.3	185.3	175.8	159.6	143.5	133.3	129.7	127.9	127.9
72.5°	126.7	133.9	139.3	135.7	129.7	121.4	113.6	109.4	110.0	111.2	112.4
75°	98.0	99.8	101.0	97.4	96.2	90.9	90.3	90.9	94.5	98.0	99.8
77.5°	75.3	72.9	71.1	67.6	68.1	67.6	70.5	75.3	80.7	86.1	90.9
80°	58.0	52.6	48.4	44.8	46.6	49.6	55.6	62.8	69.9	75.9	81.9
82.5°	44.8	37.1	31.1	27.5	31.1	35.9	43.6	52.6	61.0	67.6	74.1
85°	34.7	25.7	18.5	14.9	18.5	25.7	34.1	44.2	53.2	60.4	67.0
87.5°	26.9	18.5	10.2	6.0	10.2	17.9	27.5	37.1	46.0	54.4	61.0
90°	21.5	12.6	4.8	1.2	5.4	12.6	21.5	31.1	40.1	49.0	55.6
92.5°	17.3	9.0	2.4	0.0	3.0	9.6	17.9	26.9	35.9	44.2	50.8
95°	14.3	7.2	1.8	0.0	2.4	7.2	14.3	23.3	31.7	40.1	45.4
97.5°	12.0	5.4	1.2	0.0	1.2	6.0	12.0	19.7	28.1	35.9	41.2
100°	10.2	4.8	1.2	0.0	1.2	4.8	10.2	17.3	24.5	31.7	37.1
102.5°	8.4	3.6	0.6	0.6	0.6	3.6	9.0	14.9	21.5	28.1	33.5
105°	7.8	3.0	0.6	0.6	0.6	3.0	7.8	13.2	19.1	25.1	29.9
107.5°	6.6	2.4	0.6	0.6	0.6	2.4	6.6	11.4	17.3	22.7	26.9
110°	5.4	2.4	0.6	0.6	0.6	2.4	5.4	10.2	14.9	19.7	23.9

TEST NUMBER: P1212996

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	4.8	1.8	0.6	0.6	0.6	1.8	4.8	9.0	13.2	17.9	21.5
115°	4.2	1.8	0.6	0.6	0.6	1.8	4.2	7.8	11.4	15.5	19.1
117.5°	3.6	1.8	0.6	0.6	0.6	1.2	3.6	6.6	10.2	13.7	17.3
120°	3.0	1.2	0.6	0.6	0.6	1.2	3.0	6.0	9.0	12.0	14.9
122.5°	3.0	1.2	0.6	0.6	0.6	1.2	2.4	4.8	7.8	10.2	13.2
125°	2.4	1.2	0.6	0.6	0.6	0.6	2.4	4.2	6.6	9.0	11.4
127.5°	2.4	1.2	0.6	0.6	0.6	0.6	1.8	3.6	5.4	7.8	10.2
130°	1.8	1.2	0.6	0.6	0.6	0.6	1.2	3.0	4.8	6.6	8.4
132.5°	1.8	1.2	0.6	0.6	0.6	0.6	1.2	2.4	3.6	5.4	7.2
135°	1.8	0.6	0.6	0.6	0.6	0.6	0.6	1.8	3.0	4.2	5.4
137.5°	1.2	0.6	0.6	0.6	0.6	0.6	0.6	1.2	2.4	3.0	4.8
140°	1.2	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.8	2.4	3.6
142.5°	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.8	3.0
145°	1.2	0.6	0.6	1.2	1.2	0.6	0.6	1.2	1.2	1.8	2.4
147.5°	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.8
150°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8
152.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
155°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1212996

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3
2.5°	1163.3	1149.6	1156.7	1154.3	1156.7	1162.7	1162.1	1160.3	1161.5	1158.5	1155.5
5°	1160.9	1147.2	1154.3	1151.4	1154.3	1160.3	1159.1	1157.3	1159.1	1155.5	1152.5
7.5°	1157.9	1145.4	1153.7	1153.1	1158.5	1166.3	1166.9	1166.9	1171.1	1165.7	1163.3
10°	1157.9	1151.4	1162.7	1166.9	1180.6	1190.8	1192.0	1194.4	1201.6	1200.4	1194.4
12.5°	1170.5	1169.3	1186.0	1196.2	1208.7	1223.1	1230.9	1233.3	1238.0	1234.4	1232.1
15°	1186.6	1192.6	1211.1	1222.5	1236.2	1247.0	1248.8	1250.0	1253.6	1248.2	1244.0
17.5°	1208.1	1211.7	1226.7	1231.5	1240.4	1242.2	1239.8	1233.8	1233.8	1221.9	1218.3
20°	1218.3	1216.5	1222.5	1214.7	1211.1	1200.4	1190.2	1178.9	1178.3	1165.7	1164.5
22.5°	1209.3	1197.4	1184.8	1165.7	1157.3	1141.8	1128.0	1121.5	1117.3	1101.1	1097.0
25°	1177.7	1148.4	1129.8	1107.1	1086.8	1068.9	1055.7	1042.0	1028.8	1015.7	1009.7
27.5°	1122.7	1095.2	1065.3	1033.6	1005.5	978.0	955.9	942.1	929.6	912.2	903.3
30°	1055.1	1016.8	984.0	953.5	907.5	874.0	855.4	827.9	818.4	810.6	793.9
32.5°	975.6	929.6	884.7	843.5	796.3	765.2	740.7	720.3	714.4	694.0	689.3
35°	887.7	827.3	776.5	735.9	701.8	664.1	643.8	630.1	618.1	604.4	602.0
37.5°	784.3	729.9	672.5	636.7	609.8	577.5	561.9	552.4	547.0	536.8	535.0
40°	680.3	625.9	586.4	550.6	533.8	516.5	505.1	501.0	498.6	495.0	491.4
42.5°	585.8	538.0	509.9	486.0	478.8	470.5	467.5	469.9	467.5	466.3	465.7
45°	505.7	469.3	449.5	442.4	440.6	438.2	440.6	444.8	445.4	444.2	444.2
47.5°	432.8	415.5	407.1	408.3	411.3	413.1	417.3	422.6	423.8	420.8	422.0
50°	385.0	374.8	373.0	377.8	384.4	386.8	391.6	395.7	395.1	393.9	392.8
52.5°	340.1	337.2	341.9	346.7	353.9	355.1	356.9	358.7	358.1	355.7	354.5
55°	302.5	304.9	309.1	310.9	316.2	315.6	316.2	316.2	313.8	312.6	310.9
57.5°	268.4	269.0	271.4	272.0	275.0	273.8	273.2	272.0	268.4	267.8	266.0
60°	233.7	232.5	237.9	233.7	236.1	233.7	233.1	230.2	226.6	226.0	224.8
62.5°	200.9	198.5	202.1	200.3	201.5	199.1	197.9	194.3	191.3	190.7	190.1
65°	171.6	170.4	174.0	173.4	174.6	171.6	170.4	168.0	165.6	165.0	164.4
67.5°	147.1	150.0	151.8	151.8	153.0	152.4	149.4	148.9	148.3	145.9	145.9
70°	129.1	130.9	134.5	135.1	134.5	135.7	133.3	132.7	132.1	130.9	130.3
72.5°	114.8	117.2	120.8	121.4	120.8	120.8	119.6	119.0	119.0	117.2	117.2
75°	103.4	106.4	109.4	109.4	109.4	108.2	107.0	107.0	105.8	105.2	104.0
77.5°	93.9	97.4	99.8	99.2	98.6	97.4	97.4	95.6	93.9	93.9	92.7
80°	86.7	89.1	90.9	90.3	89.7	87.9	87.3	85.5	84.3	82.5	82.5
82.5°	78.9	81.9	83.1	82.5	81.3	79.5	78.9	77.7	76.5	75.9	74.7
85°	72.3	75.3	75.9	74.7	73.5	72.3	71.7	71.1	70.5	69.3	69.3
87.5°	65.8	68.7	68.7	68.1	67.0	66.4	65.8	65.2	64.6	64.0	63.4
90°	60.4	62.8	62.8	62.2	61.6	61.0	60.4	59.8	59.2	58.6	58.6
92.5°	55.0	57.4	57.4	56.8	56.2	55.6	55.6	55.0	54.4	53.8	53.2
95°	50.2	52.6	52.6	52.6	52.0	51.4	51.4	50.8	50.2	50.2	49.6
97.5°	45.4	47.8	47.8	47.8	47.2	46.6	46.6	46.0	46.0	46.0	45.4
100°	41.2	43.0	43.6	43.6	43.0	43.0	43.0	42.4	42.4	42.4	41.8
102.5°	37.1	38.9	40.1	40.1	40.1	39.5	39.5	39.5	39.5	39.5	38.9
105°	33.5	35.3	36.5	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
107.5°	30.5	32.3	33.5	34.1	34.7	34.7	35.3	35.3	35.3	35.3	35.3
110°	27.5	29.3	31.1	31.7	32.3	32.9	32.9	33.5	32.9	32.9	32.9



TEST NUMBER: P1212996

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	24.5	26.9	28.1	29.3	29.9	30.5	31.1	31.1	31.1	31.1	31.1
115°	22.1	24.5	25.7	26.9	28.1	28.7	28.7	29.3	29.3	29.3	28.7
117.5°	19.7	22.1	23.3	24.5	25.1	26.3	26.9	26.9	26.9	26.9	26.3
120°	17.9	19.7	20.9	22.1	23.3	23.9	24.5	24.5	24.5	24.5	24.5
122.5°	15.5	17.3	19.1	20.3	20.9	21.5	22.1	22.1	22.1	22.1	22.1
125°	13.7	15.5	16.7	17.9	18.5	19.7	19.7	19.7	19.7	19.7	19.7
127.5°	12.0	13.7	14.9	16.1	16.7	17.3	17.9	17.9	17.9	17.9	17.9
130°	10.2	12.0	13.2	14.3	14.9	15.5	15.5	16.1	16.1	16.1	16.1
132.5°	9.0	10.2	11.4	12.6	13.2	13.7	13.7	14.3	14.3	14.3	14.3
135°	7.2	9.0	9.6	10.8	11.4	12.0	12.0	12.6	12.6	12.6	12.6
137.5°	6.0	7.2	8.4	9.6	10.2	10.2	10.8	10.8	11.4	11.4	11.4
140°	4.8	5.4	7.2	7.8	8.4	9.0	9.6	9.6	9.6	9.6	9.6
142.5°	3.6	4.8	5.4	6.6	7.2	7.8	8.4	8.4	8.4	8.4	8.4
145°	3.0	3.6	4.2	5.4	6.0	6.6	7.2	7.2	7.2	7.2	7.2
147.5°	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.0	6.0	6.0	6.0
150°	1.8	2.4	3.0	3.0	3.6	4.2	4.8	5.4	5.4	5.4	5.4
152.5°	1.8	1.8	2.4	2.4	3.0	3.6	4.2	4.2	4.2	4.2	4.2
155°	1.2	1.8	1.8	1.8	2.4	2.4	3.0	3.6	3.6	3.6	3.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1212996

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3
2.5°	1157.3	1159.7	1158.5	1156.7	1156.1	1159.1	1156.1	1142.4	1147.8	1148.4	1152.5
5°	1155.5	1157.3	1156.1	1154.9	1153.1	1156.7	1153.1	1138.8	1144.2	1144.8	1149.0
7.5°	1167.5	1168.1	1168.1	1165.1	1160.3	1162.1	1157.3	1141.2	1144.2	1144.2	1147.2
10°	1197.4	1198.6	1200.4	1192.6	1186.6	1181.8	1175.3	1155.5	1154.9	1150.2	1150.2
12.5°	1236.2	1233.3	1230.3	1226.7	1221.9	1215.9	1206.3	1183.0	1175.3	1167.5	1159.7
15°	1247.6	1246.4	1245.8	1244.0	1241.0	1239.2	1232.1	1208.7	1197.4	1187.8	1174.1
17.5°	1217.7	1220.1	1227.9	1228.5	1232.1	1239.2	1238.0	1221.9	1211.7	1207.5	1190.8
20°	1163.9	1164.5	1174.1	1178.3	1193.8	1205.8	1214.7	1212.9	1210.5	1215.3	1202.8
22.5°	1099.3	1103.5	1113.7	1120.3	1135.2	1149.0	1163.3	1171.1	1183.6	1203.4	1201.0
25°	1011.5	1016.8	1031.2	1042.0	1062.9	1083.8	1102.9	1116.7	1131.6	1169.3	1181.8
27.5°	906.3	914.6	933.2	943.9	973.2	994.7	1022.2	1049.1	1070.1	1113.1	1138.8
30°	795.7	802.8	822.6	837.5	862.6	891.9	926.6	964.8	999.5	1043.2	1075.4
32.5°	692.2	700.0	716.2	729.3	757.4	781.9	820.2	867.4	899.7	960.1	1003.1
35°	602.0	609.2	620.5	631.9	655.2	680.3	713.2	759.2	800.4	863.2	917.6
37.5°	538.6	539.8	546.4	553.0	570.3	589.4	615.1	655.8	694.0	761.6	821.4
40°	493.2	493.2	496.8	498.6	506.3	517.7	533.8	565.5	597.2	648.6	721.5
42.5°	465.1	463.9	463.9	464.5	463.9	469.3	478.8	493.8	521.9	564.3	621.1
45°	444.2	441.8	440.0	435.8	433.4	433.4	434.0	439.4	455.5	483.0	529.0
47.5°	420.8	420.2	417.3	412.5	408.3	405.3	400.5	398.7	403.5	419.1	450.1
50°	393.9	391.0	388.0	384.4	379.6	376.6	367.6	368.2	364.1	371.2	387.4
52.5°	354.5	352.1	350.9	347.9	346.1	344.9	337.8	330.6	328.8	330.0	336.0
55°	310.9	312.0	307.3	309.7	309.1	303.7	300.7	295.3	293.5	292.9	295.9
57.5°	265.4	266.6	263.6	266.0	266.0	263.0	261.2	261.2	257.1	253.5	257.6
60°	224.2	221.8	223.6	226.6	226.6	224.8	223.6	223.6	220.6	219.4	222.4
62.5°	190.7	188.3	190.1	193.1	193.7	192.5	191.3	191.3	187.7	187.7	190.1
65°	165.0	165.6	165.0	167.4	167.4	168.0	166.8	165.6	161.4	163.2	162.6
67.5°	146.5	145.9	145.9	148.3	147.7	148.9	147.7	145.9	142.9	140.5	139.9
70°	130.9	130.3	130.3	131.5	132.1	132.1	131.5	130.3	126.1	123.7	122.0
72.5°	117.2	116.6	117.2	117.8	118.4	119.0	118.4	117.2	113.6	110.6	107.6
75°	104.6	104.0	105.8	105.8	106.4	106.4	107.0	106.4	103.4	99.8	96.2
77.5°	92.1	92.7	94.5	95.0	96.2	96.8	97.4	97.4	94.5	91.5	86.7
80°	81.9	83.1	84.3	84.9	86.1	87.9	88.5	89.1	86.7	83.7	78.3
82.5°	74.7	75.3	76.5	77.1	78.9	79.5	80.1	81.3	80.1	77.1	71.1
85°	68.7	69.3	70.5	70.5	71.7	72.9	73.5	74.1	73.5	70.5	64.6
87.5°	63.4	64.0	64.6	65.2	65.8	66.4	67.0	67.6	67.0	64.0	58.6
90°	58.6	58.6	59.2	59.2	59.8	60.4	61.6	61.6	61.0	58.6	53.2
92.5°	53.2	53.8	53.8	54.4	55.0	55.6	56.2	56.2	55.6	53.2	48.4
95°	49.6	49.6	50.2	50.2	50.8	50.8	51.4	51.4	50.8	48.4	43.6
97.5°	45.4	45.4	45.4	45.4	46.0	46.0	46.6	46.6	46.0	43.6	39.5
100°	41.8	41.8	41.8	41.8	41.8	42.4	42.4	42.4	41.8	39.5	35.3
102.5°	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	37.7	35.9	31.7
105°	37.1	37.1	37.1	36.5	36.5	36.5	35.9	35.9	34.1	32.3	28.7
107.5°	34.7	34.7	34.7	34.1	34.1	33.5	32.9	32.9	31.1	29.3	25.7
110°	32.9	32.9	32.9	32.3	31.7	31.1	30.5	29.9	28.1	25.7	22.7

TEST NUMBER: P1212996

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	31.1	31.1	30.5	30.5	29.9	29.3	28.1	27.5	25.7	23.3	20.3
115°	28.7	28.7	28.7	28.1	27.5	26.9	26.3	25.1	23.3	20.9	17.9
117.5°	26.3	26.3	26.3	25.7	25.1	24.5	23.9	22.7	20.9	18.5	16.1
120°	23.9	23.9	23.9	23.3	22.7	22.1	21.5	20.3	18.5	16.7	13.7
122.5°	22.1	22.1	21.5	20.9	20.3	19.7	19.1	17.9	16.7	14.3	12.0
125°	19.7	19.7	19.1	19.1	18.5	17.9	17.3	16.1	14.3	12.6	10.8
127.5°	17.9	17.3	17.3	17.3	16.7	16.1	14.9	14.3	12.6	10.8	9.0
130°	15.5	15.5	15.5	14.9	14.9	14.3	13.2	12.0	10.8	9.6	7.8
132.5°	13.7	13.7	13.7	13.7	13.2	12.6	11.4	10.8	9.6	7.8	6.6
135°	12.6	12.6	12.0	12.0	11.4	10.8	10.2	9.0	7.8	6.6	5.4
137.5°	10.8	10.8	10.8	10.2	10.2	9.6	8.4	7.8	7.2	6.0	4.8
140°	9.6	9.6	9.0	9.0	8.4	8.4	7.8	6.6	6.0	4.8	4.2
142.5°	8.4	8.4	7.8	7.8	7.2	7.2	6.6	6.0	4.8	4.2	3.0
145°	7.2	7.2	6.6	6.6	6.6	6.0	5.4	4.8	4.2	3.6	3.0
147.5°	6.0	6.0	6.0	5.4	5.4	4.8	4.8	4.2	3.6	3.0	2.4
150°	5.4	5.4	4.8	4.8	4.8	4.2	3.6	3.6	3.0	2.4	1.8
152.5°	4.2	4.2	4.2	4.2	3.6	3.6	3.0	3.0	2.4	1.8	1.8
155°	3.6	3.6	3.6	3.0	3.0	3.0	2.4	2.4	1.8	1.8	1.2
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1212996

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3
2.5°	1150.8	1150.2	1155.5	1154.9	1147.8	1158.5	1165.7
5°	1147.8	1147.2	1152.0	1153.1	1145.4	1156.7	1164.5
7.5°	1145.4	1144.8	1150.2	1152.0	1144.2	1154.3	1162.7
10°	1146.0	1143.0	1147.8	1149.0	1141.8	1152.5	1159.7
12.5°	1150.2	1143.0	1144.8	1144.8	1138.2	1147.8	1155.5
15°	1160.3	1145.4	1143.0	1141.2	1132.8	1141.8	1149.6
17.5°	1171.7	1151.4	1143.0	1137.0	1126.8	1134.6	1143.0
20°	1183.0	1157.9	1144.2	1134.6	1120.9	1128.0	1134.0
22.5°	1188.4	1163.9	1145.4	1131.0	1113.7	1117.3	1123.9
25°	1181.2	1161.5	1143.0	1125.6	1104.7	1105.3	1110.7
27.5°	1154.9	1149.6	1137.6	1120.3	1097.6	1094.6	1098.7
30°	1110.1	1125.0	1125.6	1113.1	1089.2	1083.2	1085.0
32.5°	1047.3	1080.8	1100.5	1098.1	1077.2	1068.9	1070.1
35°	975.0	1016.8	1059.9	1074.2	1059.3	1052.7	1050.3
37.5°	888.3	944.5	1001.9	1037.2	1034.8	1030.6	1028.2
40°	792.7	860.2	928.4	984.6	1001.9	1001.9	1003.1
42.5°	690.5	769.4	844.1	915.2	955.9	964.8	968.4
45°	591.8	671.3	752.6	834.5	888.9	917.0	927.2
47.5°	502.1	582.3	659.4	749.0	821.4	857.8	874.0
50°	425.6	485.4	566.7	655.8	734.7	779.5	811.2
52.5°	362.3	408.9	480.0	563.1	642.6	704.2	733.5
55°	309.1	340.7	401.1	472.9	548.8	612.7	646.8
57.5°	264.2	289.3	330.6	390.4	454.3	517.7	554.2
60°	224.8	242.1	270.2	317.4	371.8	426.2	461.5
62.5°	190.7	202.1	220.6	255.3	297.7	340.1	373.0
65°	164.4	169.2	179.3	200.9	233.1	265.4	293.5
67.5°	138.7	141.7	149.4	162.6	178.7	202.1	220.6
70°	119.6	119.6	120.2	127.9	136.3	151.2	164.4
72.5°	104.0	102.2	98.6	100.4	102.2	110.6	119.0
75°	91.5	87.3	81.3	78.9	77.7	78.9	83.7
77.5°	80.7	74.7	67.6	61.6	56.8	55.0	59.2
80°	71.7	64.6	56.2	48.4	40.7	36.5	38.3
82.5°	64.6	55.6	46.6	37.7	28.7	22.7	22.7
85°	56.8	48.4	38.9	29.3	20.3	12.6	11.4
87.5°	51.4	42.4	32.3	23.3	14.3	6.6	3.6
90°	46.0	37.1	27.5	18.5	10.2	3.0	0.0
92.5°	41.2	32.9	23.9	14.9	7.2	1.8	0.0
95°	37.1	29.3	20.3	12.6	6.0	1.2	0.6
97.5°	32.9	25.7	17.9	10.2	4.2	1.2	0.6
100°	29.9	22.7	15.5	8.4	3.6	0.6	0.6
102.5°	26.3	20.3	13.2	7.2	3.0	0.6	0.6
105°	23.3	17.9	11.4	6.0	2.4	0.6	0.6
107.5°	20.9	15.5	10.2	5.4	2.4	0.6	0.6
110°	18.5	13.7	9.0	4.8	1.8	0.6	0.6



TEST NUMBER: P1212996

CATALOG NUMBER: 2SNLED-LD5-34HL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	16.7	12.0	7.8	4.2	1.2	0.6	0.6
115°	14.3	10.8	6.6	3.6	1.2	0.6	0.6
117.5°	12.6	9.0	6.0	3.0	1.2	0.6	0.6
120°	10.8	7.8	4.8	2.4	0.6	0.6	0.6
122.5°	9.6	6.6	4.2	2.4	0.6	0.6	0.6
125°	8.4	6.0	3.6	1.8	0.6	0.6	0.6
127.5°	7.2	4.8	3.0	1.2	0.6	0.6	0.6
130°	6.0	4.2	2.4	1.2	0.6	0.6	0.6
132.5°	4.8	3.6	2.4	1.2	0.6	0.6	0.6
135°	4.2	3.0	1.8	1.2	0.6	0.6	0.6
137.5°	3.6	2.4	1.2	1.2	1.2	0.6	0.6
140°	3.0	1.8	1.2	1.2	1.2	1.2	0.6
142.5°	2.4	1.8	1.2	1.2	1.2	1.2	0.6
145°	1.8	1.2	1.2	1.2	1.2	1.2	0.6
147.5°	1.8	1.2	1.2	1.2	1.2	1.2	0.6
150°	1.2	1.2	1.2	1.2	1.2	1.2	1.2
152.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2
155°	1.2	1.2	1.2	1.2	1.2	1.2	1.2
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)