

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: P1213676

Luminaire Tested: 2SNLED-LD5-21SL-RW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213676
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-LD5-21SL-RW-UNV-L940-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

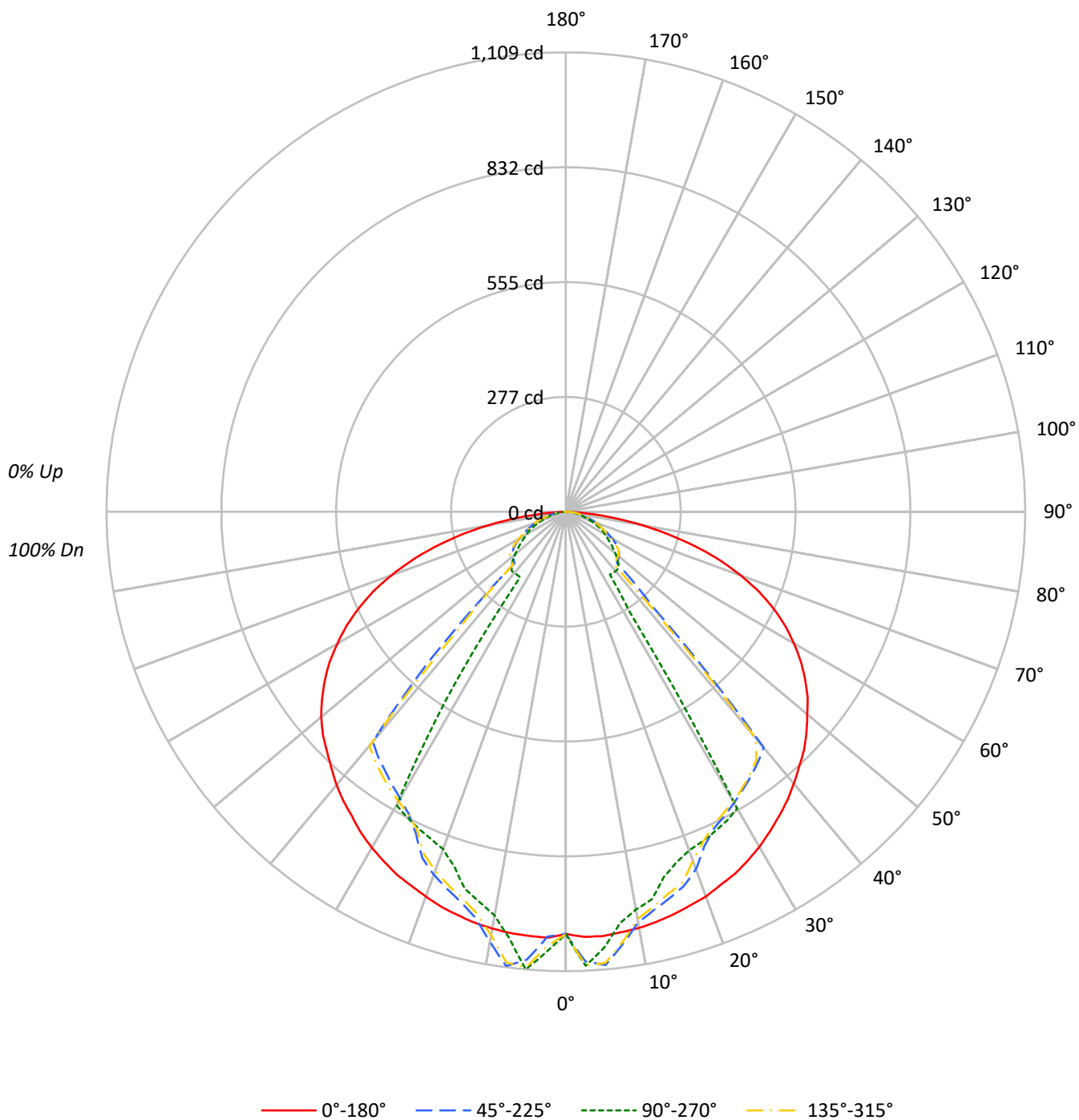
Lumens per Lamp: N/A
Luminaire Lumens: 2041.0 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 18
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					0
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°	16472	16472	16472	16472
5°	16589	16597	16581	17418
10°	16560	15005	16583	15236
15°	16550	13883	16588	14324
20°	16622	13168	16622	13118
25°	16714	12917	16739	12795
30°	16827	12688	16869	12537
35°	16962	2890	16998	3014
40°	17164	3005	17266	3103
45°	17494	2988	17554	3098
50°	17806	2701	18047	2774
55°	18235	2399	18380	2434
60°	18541	2131	18582	2159
65°	18666	1860	18618	1831
70°	18124	1500	18068	1445
75°	16436	1155	16558	1105
80°	12809	821	13317	750
85°	6317	491	6674	375

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 57.5°

Luminance: 19081 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	4.9
10°-20°	275.7	13.5
20°-30°	408.4	20.0
30°-40°	411.5	20.2
40°-50°	321.4	15.7
50°-60°	248.3	12.2
60°-70°	166.7	8.2
70°-80°	85.0	4.2
80°-90°	23.7	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°	784.4	38.4
0°-40°	1195.9	58.6
0°-60°	1765.6	86.5
0°-90°	2041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2041.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1019	1019	1019	1019	1019	
5°	1028	1057	1028	1109	1028	98
15°	1006	913	1008	942	1006	284
25°	965	851	966	843	965	445
35°	897	185	899	193	897	562
45°	813	180	816	186	813	627
55°	705	131	710	133	705	630
65°	554	88	552	86	554	544
75°	325	44	327	42	325	340
85°	58	14	62	11	58	80
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°	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2
2.5°	1027.2	1030.9	1033.7	1035.6	1036.5	1036.5	1037.0	1037.4	1043.5	1046.3	1048.2
5°	1028.1	1031.8	1037.4	1044.9	1051.5	1057.1	1061.7	1068.3	1074.8	1081.8	1084.2
7.5°	1023.9	1028.6	1039.8	1053.3	1065.9	1074.8	1080.9	1085.1	1088.4	1088.8	1091.2
10°	1020.2	1028.6	1044.0	1061.7	1077.6	1088.4	1088.4	1086.0	1089.3	1076.7	1064.1
12.5°	1013.6	1023.0	1044.0	1067.3	1082.3	1086.5	1084.6	1075.3	1056.1	1040.7	1033.7
15°	1005.7	1018.3	1044.4	1070.6	1083.2	1084.6	1066.9	1043.0	1028.6	1019.2	1007.5
17.5°	996.8	1013.6	1044.9	1071.1	1075.7	1069.2	1035.6	1020.6	1005.7	983.7	967.8
20°	988.4	1004.7	1041.2	1064.5	1067.3	1037.9	1011.7	995.9	970.6	951.5	944.5
22.5°	975.3	994.5	1037.9	1055.7	1044.9	1010.8	985.6	960.4	937.5	931.9	923.5
25°	964.6	984.7	1030.4	1044.9	1016.4	986.1	956.6	927.2	916.5	908.5	901.0
27.5°	950.1	974.8	1020.6	1025.3	986.1	959.4	916.5	903.4	893.6	884.7	881.4
30°	934.2	964.6	1007.1	998.2	960.8	921.6	889.8	877.7	870.7	861.3	857.6
32.5°	916.0	949.2	992.1	966.9	933.7	884.7	864.1	854.8	845.5	838.5	815.1
35°	897.3	935.6	974.4	937.0	901.0	856.7	838.5	830.0	821.2	795.5	771.2
37.5°	878.2	920.7	952.9	904.8	857.6	827.7	812.3	803.0	782.9	750.2	738.0
40°	856.2	902.4	925.3	871.6	819.8	798.3	783.8	774.5	729.2	714.7	710.9
42.5°	834.2	884.7	891.7	839.4	788.5	767.0	754.8	724.0	693.2	685.7	687.1
45°	813.2	865.5	854.8	793.6	755.8	738.0	717.5	675.0	658.6	662.4	663.3
47.5°	788.0	842.7	816.0	747.8	722.1	704.4	658.6	632.9	630.6	635.7	638.5
50°	760.9	817.0	774.9	706.3	685.7	664.7	612.8	599.8	602.6	607.7	611.0
52.5°	735.7	788.0	732.4	667.5	649.7	601.6	566.6	568.9	573.6	579.7	581.5
55°	704.9	753.0	687.1	628.3	611.4	548.4	532.5	538.1	542.8	547.9	551.7
57.5°	672.6	712.8	633.4	584.3	557.3	501.2	502.6	506.3	509.6	515.7	213.0
60°	635.7	667.0	574.5	543.7	490.0	463.8	465.2	471.8	475.0	265.3	146.7
62.5°	597.4	613.8	521.3	497.5	428.3	426.5	433.0	435.8	296.6	140.1	137.3
65°	553.5	550.2	469.0	431.1	386.3	388.2	395.2	381.2	131.3	131.3	130.3
67.5°	504.9	485.3	418.1	356.9	345.7	349.9	357.3	124.7	121.4	122.4	119.1
70°	449.4	421.8	365.3	302.2	306.0	310.2	120.5	113.0	111.6	109.3	102.8
72.5°	390.5	352.7	298.9	262.5	264.8	166.3	105.6	101.8	97.2	92.5	85.5
75°	324.6	275.6	219.5	219.5	222.8	94.8	92.0	85.9	80.8	74.7	70.5
77.5°	254.6	212.1	170.5	177.0	86.4	79.4	74.3	67.7	63.5	59.8	57.5
80°	186.4	148.1	128.5	114.9	67.3	60.3	55.1	51.4	49.5	47.2	44.4
82.5°	122.4	89.2	89.2	54.2	47.2	41.6	40.2	37.4	35.5	34.1	32.7
85°	58.4	51.8	39.2	33.2	29.4	26.6	25.7	24.3	24.3	23.8	23.4
87.5°	21.5	23.4	17.3	16.8	15.9	15.4	15.9	15.9	16.3	15.9	15.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2
2.5°	1052.9	1056.6	1059.4	1064.1	1070.1	1075.3	1079.9	1086.5	1096.8	1099.6	1101.9
5°	1084.2	1085.6	1088.8	1092.6	1093.5	1095.8	1095.4	1098.2	1099.6	1102.8	1095.8
7.5°	1086.0	1078.5	1069.7	1061.7	1056.1	1051.0	1047.7	1052.9	1055.7	1058.0	1051.0
10°	1046.8	1037.9	1032.8	1028.1	1022.5	1014.6	1003.8	1006.1	1005.2	1005.2	1002.9
12.5°	1022.0	1009.4	996.3	984.7	979.5	979.1	979.5	984.7	984.7	984.2	981.4
15°	983.3	971.1	964.6	961.8	961.8	960.4	960.4	966.0	964.6	964.6	963.2
17.5°	957.6	949.2	944.5	941.2	939.8	942.2	945.0	947.3	947.8	945.9	938.4
20°	936.5	928.6	923.0	923.9	923.5	924.9	926.3	918.3	908.5	895.4	889.4
22.5°	914.6	908.5	904.3	904.3	898.7	889.8	876.8	874.0	872.6	866.5	861.3
25°	893.6	886.6	880.5	861.8	850.1	851.5	849.2	844.5	844.1	843.6	845.5
27.5°	872.6	854.3	831.0	828.2	823.5	823.0	825.8	828.2	828.2	830.0	832.4
30°	829.1	808.1	803.9	798.7	800.6	807.2	808.6	811.8	812.8	816.0	817.9
32.5°	789.4	780.1	776.3	778.7	784.7	790.3	793.6	795.0	797.3	800.2	802.5
35°	757.2	754.4	757.6	762.8	768.9	773.5	776.3	779.1	781.5	783.8	785.7
37.5°	733.4	735.2	739.9	746.4	752.5	756.2	758.6	761.8	765.1	767.9	756.7
40°	710.9	715.6	720.7	727.7	732.9	736.6	739.0	743.2	715.1	323.7	177.5
42.5°	691.3	696.5	700.2	705.8	711.4	714.2	693.7	309.7	175.2	174.2	176.6
45°	667.5	671.7	677.8	682.0	687.1	451.2	172.4	174.2	171.4	173.3	174.2
47.5°	643.2	649.7	653.0	623.1	185.4	171.4	169.6	171.4	169.6	171.9	170.5
50°	615.6	623.6	443.7	167.7	166.3	165.4	167.2	166.3	167.7	169.6	165.8
52.5°	587.6	363.9	162.6	161.6	162.6	161.6	164.9	162.6	163.0	161.2	156.5
55°	199.0	157.4	156.0	155.5	158.3	158.3	158.3	154.6	152.3	147.6	144.3
57.5°	152.3	152.3	151.8	152.3	151.3	150.4	146.2	142.9	139.7	133.1	131.3
60°	144.3	144.3	144.3	144.3	140.1	138.3	131.7	128.9	123.3	120.0	118.2
62.5°	137.8	136.9	132.7	131.3	126.6	121.4	117.7	114.9	109.3	107.4	106.0
65°	128.5	125.2	120.0	114.4	112.1	106.5	104.6	100.4	97.6	96.2	95.3
67.5°	113.0	108.4	104.2	100.4	96.2	94.4	92.0	88.7	86.9	85.9	85.0
70°	96.7	93.4	89.2	86.9	84.1	82.7	79.4	78.5	77.1	75.7	74.3
72.5°	80.8	78.9	77.1	73.8	72.9	71.9	68.7	66.8	64.9	63.1	62.1
75°	67.7	66.3	65.4	62.6	61.2	58.4	56.1	54.7	53.2	51.8	50.9
77.5°	55.6	54.7	51.8	50.0	49.0	46.7	45.8	46.2	45.3	43.4	42.5
80°	43.4	42.5	40.2	40.2	39.2	38.3	37.4	36.4	35.5	34.1	33.2
82.5°	33.2	32.2	31.3	30.4	29.4	29.0	28.5	27.6	26.6	25.7	25.2
85°	23.4	22.9	22.4	22.0	21.5	21.0	20.6	19.6	18.7	18.2	17.7
87.5°	15.9	15.4	14.9	14.5	14.0	13.5	13.1	12.6	11.7	11.2	10.7
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°	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2
2.5°	1101.9	1104.2	1101.9	1096.8	1093.5	1092.1	1094.9	1094.9	1096.8	1099.1	1099.6
5°	1084.6	1079.0	1072.5	1065.9	1062.7	1060.8	1055.7	1056.6	1058.0	1058.9	1059.9
7.5°	1041.6	1034.2	1025.3	1016.9	1013.6	1010.8	1004.7	1004.7	1004.7	1005.2	1008.0
10°	997.7	994.5	990.7	985.1	980.9	979.5	974.4	975.8	974.8	976.2	979.5
12.5°	977.2	973.4	970.2	964.6	959.9	958.0	955.7	957.1	956.6	959.0	961.8
15°	958.5	956.6	952.9	948.7	944.5	940.7	932.3	929.5	927.7	925.3	928.6
17.5°	927.7	914.6	905.7	899.2	894.5	891.2	888.9	888.9	890.3	891.7	894.5
20°	885.6	881.9	877.7	870.7	866.0	864.1	862.7	862.7	865.1	866.9	872.1
22.5°	856.7	856.2	854.8	851.5	849.2	849.2	849.7	850.6	853.9	856.7	861.8
25°	843.1	845.0	844.1	842.2	840.8	841.3	840.3	841.3	844.5	847.3	851.5
27.5°	832.4	835.2	834.2	831.4	829.1	830.0	831.4	830.5	833.3	836.6	839.9
30°	817.9	818.4	820.2	817.0	816.0	817.4	817.9	818.8	821.6	824.0	826.8
32.5°	801.6	805.3	804.8	801.6	801.6	803.0	803.4	772.1	713.7	614.7	587.6
35°	785.7	789.9	782.9	660.0	456.8	243.8	188.2	181.7	183.1	184.0	185.0
37.5°	581.1	275.6	175.6	177.0	178.4	179.8	181.2	182.6	184.0	185.4	185.9
40°	174.7	174.2	175.6	177.5	178.9	179.8	181.7	183.1	184.5	185.9	186.4
42.5°	172.8	173.8	175.2	177.0	178.9	180.8	182.2	184.0	185.0	185.9	186.4
45°	171.9	173.8	175.6	177.0	178.4	179.4	180.3	180.8	180.3	180.3	181.2
47.5°	170.5	172.4	172.8	172.4	172.8	172.4	172.4	172.4	171.0	170.5	170.5
50°	165.4	165.4	164.4	162.6	162.1	161.6	160.7	160.2	158.3	157.9	157.9
52.5°	154.6	154.1	152.7	150.4	149.5	148.5	148.1	147.6	145.7	144.8	145.3
55°	142.0	141.1	139.7	136.9	136.4	135.5	135.0	134.5	132.7	133.6	132.2
57.5°	130.3	128.5	126.6	126.1	124.2	123.8	123.3	122.8	121.4	121.9	121.0
60°	116.3	115.8	114.9	113.0	113.0	112.6	112.6	111.6	110.7	110.2	110.2
62.5°	106.0	104.6	103.7	103.7	102.3	102.3	102.3	101.4	100.4	100.9	100.4
65°	94.8	94.4	93.9	93.0	93.0	92.5	92.5	91.6	90.2	90.6	89.7
67.5°	85.5	84.5	83.6	83.1	81.3	80.3	79.9	79.4	77.5	78.0	77.1
70°	73.8	72.4	71.5	70.5	69.1	68.2	68.2	67.3	65.9	66.3	65.4
72.5°	61.7	60.7	59.8	59.3	57.9	57.5	57.0	56.5	55.1	55.6	55.1
75°	51.4	51.4	50.9	50.4	49.0	47.6	46.7	46.2	45.3	45.8	44.8
77.5°	42.5	41.6	40.6	40.6	39.2	38.3	37.4	37.4	37.4	36.9	36.4
80°	33.2	32.2	32.2	31.8	30.8	29.9	29.4	29.4	29.0	29.0	28.5
82.5°	25.2	24.3	23.8	23.8	22.9	22.4	22.0	21.5	21.5	21.5	21.0
85°	17.7	16.8	16.3	16.3	15.4	14.9	14.9	14.5	14.5	14.0	14.0
87.5°	10.7	10.3	9.8	9.8	8.9	8.4	8.4	8.4	7.9	7.9	7.5
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: P1213676

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2
2.5°	1099.6	1099.6	1096.3	1097.2	1095.8	1097.7	1095.4	1095.4	1098.2	1098.2	1100.0
5°	1060.3	1058.0	1057.5	1056.6	1051.9	1053.8	1051.5	1049.1	1052.4	1052.4	1056.6
7.5°	1006.6	1002.4	1004.3	1001.5	998.7	994.5	995.9	994.0	996.3	999.6	1003.8
10°	979.1	975.3	977.7	974.8	976.2	970.2	970.6	971.1	973.4	974.4	978.1
12.5°	961.3	960.4	959.4	958.5	959.4	956.2	954.3	954.8	955.7	956.2	959.0
15°	923.9	917.9	919.7	913.2	913.7	914.1	910.4	914.1	913.7	919.7	925.3
17.5°	893.6	893.6	890.3	887.5	885.6	885.2	882.4	884.2	882.4	886.1	887.5
20°	872.6	872.1	871.6	870.2	865.5	866.0	867.4	863.2	862.7	862.3	865.1
22.5°	862.7	863.2	861.3	861.3	857.1	858.1	858.5	853.9	854.3	852.9	854.3
25°	852.5	853.4	851.1	851.1	850.1	849.7	847.3	848.3	845.5	843.1	845.5
27.5°	840.3	842.2	840.3	841.3	839.4	838.5	837.1	836.1	833.3	832.8	834.2
30°	829.1	830.0	829.6	827.2	826.8	824.0	825.4	822.6	819.8	820.2	821.2
32.5°	425.1	405.9	313.0	282.6	279.8	290.1	343.8	418.5	542.3	662.4	748.8
35°	185.4	185.4	185.4	185.0	185.0	184.5	184.0	183.6	183.1	182.6	182.2
37.5°	186.4	186.4	186.4	186.4	185.9	185.4	185.4	184.5	184.0	183.6	183.1
40°	186.8	187.3	187.3	187.3	186.8	186.8	186.4	185.4	185.0	184.0	183.1
42.5°	186.4	186.8	186.8	186.4	186.4	185.9	185.9	185.4	185.0	184.5	184.0
45°	180.3	180.8	179.8	179.8	179.4	179.4	179.4	179.4	179.4	179.8	179.8
47.5°	169.6	169.6	169.1	168.6	168.6	168.2	168.6	168.2	169.1	169.6	170.5
50°	156.9	156.9	156.0	155.5	155.5	155.5	155.5	156.0	156.5	157.4	158.3
52.5°	143.9	143.9	143.4	142.9	142.5	142.5	143.9	143.4	143.9	144.3	145.7
55°	131.3	131.7	130.8	130.8	130.3	130.3	130.3	130.8	131.3	131.7	133.1
57.5°	120.5	120.5	119.6	119.6	119.6	119.1	120.5	119.6	120.0	120.5	121.4
60°	109.8	109.3	109.3	108.8	108.8	108.8	109.8	109.3	109.3	109.8	110.7
62.5°	100.0	100.0	99.5	99.5	99.0	99.0	100.0	99.5	99.5	100.0	100.4
65°	88.7	88.7	88.3	87.8	89.2	87.8	89.2	88.3	89.2	89.7	90.6
67.5°	76.1	76.1	76.1	75.7	75.7	76.6	77.1	76.1	76.6	77.5	78.0
70°	64.9	64.9	64.5	64.5	64.5	65.4	65.9	64.9	65.4	65.9	66.8
72.5°	55.1	54.2	54.2	53.7	54.7	54.7	55.1	54.7	55.1	55.1	56.1
75°	45.3	44.4	44.4	44.4	45.3	44.8	45.3	44.8	45.3	45.3	45.8
77.5°	36.4	36.0	35.5	35.5	36.4	36.4	36.4	36.0	36.4	36.9	37.4
80°	28.5	28.0	27.6	27.6	28.5	28.5	28.5	29.0	28.5	29.0	29.4
82.5°	21.0	20.6	20.1	21.0	21.0	21.0	21.0	21.5	21.0	21.5	22.0
85°	14.0	13.5	13.1	14.0	14.0	14.0	14.0	14.5	14.0	14.5	14.9
87.5°	7.5	7.0	7.0	7.5	7.5	7.5	7.9	7.9	7.9	8.4	8.4
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: P1213676

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2
2.5°	1102.8	1104.2	1103.8	1101.0	1098.2	1094.9	1092.6	1093.0	1097.7	1099.1	1094.9
5°	1056.6	1065.5	1065.5	1071.5	1068.3	1065.5	1067.3	1077.6	1082.7	1090.7	1093.5
7.5°	1008.9	1013.2	1012.7	1018.8	1017.8	1017.8	1019.2	1032.8	1039.3	1045.8	1047.7
10°	982.3	986.5	986.1	986.5	985.1	981.9	981.9	987.9	993.5	996.8	997.7
12.5°	963.2	965.5	965.0	965.0	964.1	961.3	960.8	966.0	972.0	976.2	976.7
15°	934.7	941.2	942.6	948.7	947.3	943.6	944.5	948.7	952.4	956.2	954.8
17.5°	892.2	895.4	895.9	898.2	897.3	897.3	902.9	918.3	928.6	937.5	938.4
20°	867.9	870.2	869.3	874.4	872.1	871.6	873.0	879.6	884.2	888.4	895.9
22.5°	856.2	858.1	856.7	857.1	852.9	849.2	848.3	853.4	858.5	864.1	864.1
25°	846.4	847.8	847.3	846.4	843.1	838.0	837.1	838.0	839.9	840.3	837.1
27.5°	834.7	835.7	835.7	836.1	831.9	827.2	826.3	825.4	827.2	826.8	821.6
30°	822.6	821.2	821.6	822.1	818.4	814.2	812.3	811.8	813.7	813.2	808.1
32.5°	793.6	804.4	805.3	806.2	803.0	799.2	797.3	795.9	796.9	796.4	791.7
35°	181.7	185.0	226.5	512.9	696.5	771.2	779.1	777.3	777.7	777.7	774.0
37.5°	182.2	181.7	181.2	179.8	178.4	177.5	306.9	654.4	758.1	758.6	755.3
40°	182.2	181.7	181.2	180.3	178.4	177.0	174.7	172.8	177.0	389.6	712.8
42.5°	183.1	182.2	181.2	180.3	178.4	176.6	174.7	172.4	173.8	172.8	170.5
45°	180.3	179.8	179.8	179.4	178.4	176.6	174.2	171.4	170.0	171.4	169.1
47.5°	171.4	171.9	173.3	173.8	173.8	174.2	172.8	171.0	168.6	170.0	167.2
50°	159.3	160.2	160.7	163.0	164.0	165.8	166.3	166.3	165.8	167.7	165.8
52.5°	146.2	147.1	149.5	150.4	151.3	154.1	155.1	156.5	157.4	160.2	162.1
55°	133.6	134.1	135.0	136.9	138.3	140.6	142.0	143.4	145.7	147.1	152.7
57.5°	121.9	122.4	124.2	124.7	125.7	127.5	128.9	130.8	132.7	133.6	140.1
60°	110.7	111.2	112.6	113.0	113.5	115.4	116.8	118.2	119.6	120.5	125.2
62.5°	100.9	100.9	102.3	102.3	102.8	104.2	105.1	106.0	107.4	107.9	110.2
65°	91.1	91.6	92.5	92.5	93.0	93.9	94.4	94.8	96.2	96.2	98.1
67.5°	78.9	79.4	80.8	81.7	82.2	84.1	84.5	85.0	85.9	86.4	87.3
70°	67.3	67.7	69.1	69.6	70.1	71.5	72.4	73.8	75.2	76.6	77.5
72.5°	56.5	57.0	58.4	58.4	59.8	60.3	61.2	61.7	63.1	64.0	65.4
75°	46.2	46.7	48.1	48.1	49.5	50.0	50.4	50.9	51.8	52.8	53.7
77.5°	37.8	37.8	39.7	40.6	41.6	41.6	42.0	42.0	42.0	42.5	43.4
80°	29.9	29.9	31.3	32.2	33.2	33.2	33.6	34.1	34.6	34.6	35.0
82.5°	22.4	22.4	23.8	24.3	25.2	25.2	25.2	25.7	26.2	25.7	26.6
85°	15.4	15.4	16.3	16.8	17.7	17.7	17.7	18.2	18.7	18.2	18.7
87.5°	8.9	9.3	9.8	10.3	10.7	11.2	11.2	11.2	11.7	11.7	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213676

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2
2.5°	1090.2	1084.6	1084.2	1077.6	1075.7	1076.2	1071.1	1069.2	1060.8	1058.9	1050.1
5°	1094.4	1097.2	1095.8	1095.4	1096.8	1095.8	1092.1	1090.2	1088.8	1085.1	1077.6
7.5°	1048.2	1050.1	1051.5	1057.5	1062.7	1071.5	1080.9	1087.0	1091.6	1092.6	1086.5
10°	1001.0	1009.9	1016.0	1025.3	1032.8	1037.9	1043.5	1048.7	1062.2	1075.7	1083.7
12.5°	976.7	979.1	978.6	983.7	988.9	1002.4	1015.5	1023.0	1033.2	1039.3	1053.8
15°	956.2	956.6	958.0	961.8	964.6	969.2	975.3	986.5	1007.1	1016.4	1024.4
17.5°	937.5	937.5	938.4	941.7	945.4	949.6	953.4	958.0	968.3	983.7	1003.3
20°	907.6	920.7	922.1	921.6	923.5	931.4	932.3	940.7	945.9	952.0	971.1
22.5°	863.2	871.2	882.4	899.6	906.2	909.9	912.7	916.5	924.4	931.4	939.3
25°	838.9	844.1	847.3	852.5	866.0	888.0	892.2	896.4	901.5	906.7	916.5
27.5°	817.4	817.0	819.3	824.0	827.7	839.4	859.9	876.3	877.2	884.7	893.1
30°	802.0	799.2	795.9	795.0	800.2	806.2	812.3	838.0	855.7	859.5	868.3
32.5°	787.5	782.9	778.2	774.5	771.2	776.3	780.1	791.3	814.2	835.7	840.3
35°	769.8	765.1	759.5	755.3	750.2	749.7	749.2	760.0	767.5	793.1	815.6
37.5°	751.6	746.4	741.8	737.1	732.0	728.2	725.9	728.7	735.7	746.9	784.3
40°	732.4	726.3	721.7	717.9	710.9	708.1	703.5	701.6	702.1	711.9	731.5
42.5°	437.7	697.9	700.2	696.0	689.9	686.2	681.0	678.7	674.0	678.7	689.9
45°	168.6	170.5	510.5	674.5	667.0	662.4	657.7	655.3	650.2	646.5	656.7
47.5°	165.4	167.2	163.5	231.7	636.7	638.1	632.5	630.1	625.0	622.2	619.4
50°	163.0	164.4	161.6	162.6	159.3	583.4	606.8	604.0	598.4	595.1	589.5
52.5°	160.7	160.7	158.8	156.5	155.5	156.0	490.9	577.3	570.8	567.5	560.1
55°	153.2	154.1	156.0	152.3	151.3	150.9	149.5	467.6	540.4	536.7	530.2
57.5°	142.0	143.9	149.0	148.1	148.1	144.3	143.4	143.4	433.9	505.4	498.9
60°	128.9	130.8	136.4	138.3	139.7	138.7	137.8	137.3	135.5	457.3	465.7
62.5°	115.4	117.2	119.1	125.2	127.1	129.4	132.2	130.8	128.9	128.9	430.7
65°	100.9	103.7	104.6	110.2	112.6	116.8	119.1	122.4	121.4	121.0	123.3
67.5°	88.3	91.6	92.0	94.4	98.6	100.4	103.2	109.3	112.1	113.0	114.0
70°	77.5	79.4	80.8	81.7	84.5	85.0	90.2	94.4	98.6	103.2	104.6
72.5°	66.8	68.2	71.0	70.1	71.0	72.9	75.7	78.5	82.7	89.2	93.4
75°	54.7	55.6	57.5	58.4	60.3	61.7	63.5	65.9	69.6	72.9	78.5
77.5°	43.9	44.4	45.8	46.2	48.1	49.5	52.8	54.2	56.5	58.9	62.1
80°	35.5	35.5	36.0	36.0	37.4	38.8	41.1	42.5	45.3	47.2	47.2
82.5°	27.1	27.1	28.5	28.5	29.4	29.4	30.8	30.8	32.2	33.2	34.1
85°	19.2	19.6	20.6	20.1	21.0	20.6	21.5	22.4	22.9	22.4	22.0
87.5°	12.6	12.6	13.5	13.1	13.5	13.5	14.5	14.5	14.9	14.9	14.5
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: P1213676

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2
2.5°	1046.8	1039.8	1035.6	1030.4	1029.0	1027.6	1029.5	1029.5	1026.7	1024.4	1020.2
5°	1071.1	1063.6	1055.7	1047.2	1039.3	1030.9	1027.6	1027.2	1022.0	1019.2	1017.8
7.5°	1083.7	1079.9	1071.1	1059.4	1047.2	1032.3	1025.8	1022.0	1016.9	1016.0	1016.0
10°	1085.1	1080.9	1076.2	1067.8	1053.8	1034.2	1021.6	1014.1	1009.4	1012.7	1018.8
12.5°	1071.5	1079.5	1075.3	1069.7	1058.5	1034.6	1016.4	1005.2	1003.8	1012.2	1028.1
15°	1037.0	1060.3	1072.0	1066.4	1057.5	1033.7	1008.0	994.9	994.9	1012.2	1032.8
17.5°	1010.8	1029.0	1057.5	1062.2	1051.9	1031.8	1000.1	984.7	988.9	1014.1	1036.0
20°	989.3	1000.5	1028.1	1054.3	1044.4	1027.6	988.4	972.5	980.9	1011.3	1040.7
22.5°	955.7	978.1	994.9	1033.7	1037.0	1019.7	976.7	957.6	974.4	1011.3	1038.4
25°	923.0	950.1	967.8	1005.7	1025.8	1009.9	966.0	941.7	967.4	1009.9	1036.5
27.5°	900.1	912.7	945.0	972.0	1008.9	996.8	951.5	924.4	958.5	1002.4	1025.8
30°	875.8	884.2	916.0	941.7	986.5	981.9	936.5	905.2	947.3	995.4	997.7
32.5°	849.2	858.5	874.9	912.3	955.2	967.8	919.7	886.1	935.1	984.7	965.0
35°	822.1	829.1	842.2	882.4	918.8	946.8	899.2	864.1	926.7	968.3	933.7
37.5°	795.0	802.5	813.7	847.3	880.5	927.2	881.4	842.2	911.3	939.3	901.0
40°	769.3	773.5	785.2	806.2	848.7	907.1	861.3	819.3	895.4	902.4	856.7
42.5°	722.1	743.2	753.9	770.7	812.8	879.6	838.0	795.0	877.7	865.5	812.3
45°	671.2	717.0	721.7	738.5	781.0	850.1	816.0	771.2	860.9	833.8	770.3
47.5°	629.7	662.8	689.9	703.9	743.2	815.6	795.5	751.1	835.7	793.6	729.2
50°	592.8	610.5	659.6	669.8	697.9	774.0	771.2	727.7	800.6	743.2	689.0
52.5°	556.8	569.4	613.8	635.7	658.6	729.2	742.2	704.9	762.3	692.7	648.3
55°	525.5	529.7	554.0	600.2	620.8	683.8	710.5	678.2	713.7	644.6	609.1
57.5°	493.3	489.5	507.3	566.6	581.5	637.6	676.8	651.1	674.5	595.6	568.5
60°	459.6	454.5	462.0	501.2	540.0	591.8	637.1	621.2	626.9	547.0	523.2
62.5°	424.6	419.5	417.1	441.9	499.3	544.6	597.0	588.1	568.5	502.6	467.1
65°	388.2	383.0	379.3	389.1	454.5	483.5	552.1	549.8	504.5	455.9	393.3
67.5°	118.2	348.5	340.5	340.1	383.0	427.9	503.5	499.8	440.0	405.9	338.7
70°	106.5	282.6	300.3	296.1	314.8	371.3	448.0	445.2	377.4	325.6	299.4
72.5°	97.6	100.0	265.3	260.6	264.8	315.8	390.0	382.6	320.0	256.9	258.8
75°	83.6	87.8	91.6	220.0	214.4	261.6	327.0	315.3	263.9	212.1	216.3
77.5°	68.2	73.3	76.1	160.2	173.3	186.4	261.1	245.7	181.7	169.6	80.8
80°	50.9	55.1	59.8	64.0	131.7	130.3	193.8	178.4	126.6	105.6	63.1
82.5°	37.4	38.8	41.6	46.2	52.3	87.3	124.7	109.8	87.8	48.1	43.4
85°	23.4	25.2	26.6	28.0	31.8	52.3	61.7	49.0	36.9	29.4	27.6
87.5°	14.9	14.9	14.5	14.9	15.4	18.7	21.0	20.1	15.9	14.9	14.9
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: P1213676

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2
2.5°	1015.5	1008.9	1008.9	1007.1	1008.5	1008.5	1008.0	1008.5	1011.7	1013.6	1016.9
5°	1015.0	1013.2	1017.4	1022.5	1028.6	1036.0	1037.9	1044.4	1050.5	1058.5	1066.9
7.5°	1021.1	1027.6	1035.6	1044.0	1056.1	1065.0	1072.9	1080.9	1086.5	1094.0	1098.6
10°	1030.0	1043.0	1056.6	1067.3	1080.4	1087.9	1093.0	1094.0	1086.0	1073.4	1063.1
12.5°	1042.6	1058.0	1070.6	1080.9	1087.0	1084.2	1069.2	1053.8	1044.9	1031.8	1013.6
15°	1053.3	1067.3	1080.4	1076.2	1059.9	1044.4	1032.8	1014.6	996.8	984.7	976.7
17.5°	1058.0	1071.5	1066.9	1044.9	1029.5	1011.7	987.9	973.9	962.2	952.9	948.2
20°	1060.8	1058.5	1033.2	1017.4	987.5	971.1	955.7	942.6	933.7	929.1	928.1
22.5°	1053.3	1024.8	1003.3	974.8	952.9	939.3	927.2	916.5	910.4	906.7	904.3
25°	1028.6	995.4	963.6	941.2	922.5	910.9	901.5	892.6	885.2	883.3	878.6
27.5°	994.0	966.9	924.9	907.6	891.2	885.6	875.4	866.5	859.9	854.3	839.4
30°	965.5	922.5	892.2	876.3	866.5	859.9	848.3	838.9	827.7	807.2	798.7
32.5°	930.5	888.0	859.0	850.1	838.0	832.4	819.3	798.7	781.5	773.1	772.6
35°	885.2	850.1	829.1	821.2	811.4	802.0	774.9	756.2	747.8	748.8	755.8
37.5°	847.3	816.0	802.5	791.3	780.1	756.2	733.4	724.5	726.8	731.5	734.8
40°	809.0	785.2	769.8	760.9	735.7	712.3	700.2	703.5	707.7	710.9	715.1
42.5°	771.7	754.8	739.4	722.1	687.6	675.0	677.8	682.0	685.7	690.4	694.6
45°	736.2	721.2	703.5	664.2	646.9	650.2	654.4	657.7	663.3	666.6	670.8
47.5°	702.5	686.6	655.3	620.8	618.9	625.5	629.2	633.4	637.6	629.2	347.1
50°	664.7	648.3	600.7	587.6	591.8	597.9	602.6	606.8	540.4	214.9	165.4
52.5°	627.3	585.7	555.4	559.1	563.3	570.3	573.6	426.0	169.6	161.6	162.1
55°	585.7	532.5	523.6	528.3	532.0	539.0	357.3	156.5	155.5	155.1	158.8
57.5°	520.4	488.1	491.9	496.5	500.3	353.1	152.3	151.3	151.8	152.3	152.7
60°	462.0	455.0	459.2	463.4	327.9	147.1	144.3	144.8	146.7	145.3	141.5
62.5°	415.7	421.3	425.5	372.7	139.7	138.3	139.7	138.3	135.0	132.7	128.0
65°	380.2	385.8	389.1	131.3	130.8	132.7	131.3	126.6	121.4	114.9	113.5
67.5°	342.9	348.5	124.7	121.4	123.3	121.0	115.4	109.8	106.0	100.4	98.1
70°	304.1	130.3	113.0	112.6	109.3	105.6	99.5	93.9	89.2	86.9	84.5
72.5°	219.5	103.2	101.8	98.1	92.5	87.3	82.2	78.9	76.6	75.2	73.8
75°	91.6	89.7	85.5	78.9	73.3	71.0	67.3	64.9	64.0	61.2	60.3
77.5°	76.6	72.9	66.8	62.1	58.9	57.5	54.7	51.8	50.4	50.0	48.1
80°	58.9	53.7	50.9	48.6	47.6	44.4	41.1	39.7	38.8	38.3	36.9
82.5°	40.2	38.3	36.4	33.2	33.2	31.8	30.4	29.4	28.5	28.5	27.6
85°	26.2	24.8	24.3	22.9	22.9	22.0	21.5	21.0	20.6	20.1	19.6
87.5°	14.9	14.9	15.4	14.9	14.9	14.5	14.0	13.5	13.1	13.1	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213676

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2
2.5°	1021.1	1025.8	1026.7	1042.6	1051.5	1051.0	1048.2	1056.6	1051.5	1048.7	1051.5
5°	1075.3	1080.9	1085.6	1102.8	1108.9	1111.7	1111.2	1115.9	1112.2	1108.9	1108.9
7.5°	1101.9	1103.8	1105.6	1101.4	1098.6	1094.0	1087.0	1076.7	1071.5	1065.9	1058.9
10°	1058.0	1051.9	1054.3	1045.8	1038.8	1033.7	1027.2	1018.8	1011.7	1006.6	998.7
12.5°	1004.3	1003.8	1004.7	1006.1	999.1	994.9	989.8	983.7	978.6	973.0	966.4
15°	971.6	972.0	975.8	974.4	972.0	969.7	964.1	962.2	957.6	951.5	947.8
17.5°	948.2	950.6	954.3	952.4	948.7	946.4	942.2	937.9	933.7	929.1	923.5
20°	927.7	930.0	932.3	930.0	923.0	919.7	914.1	901.0	891.7	882.4	874.0
22.5°	905.2	906.7	904.8	897.3	879.6	871.2	864.6	860.9	852.9	847.8	842.7
25°	877.2	869.3	857.1	848.7	841.7	838.0	835.2	834.7	833.8	832.8	830.5
27.5°	831.4	828.6	822.1	818.8	819.3	820.7	821.2	822.6	821.2	819.3	817.4
30°	797.3	798.7	799.2	800.2	802.5	803.9	804.4	806.2	805.3	803.9	803.0
32.5°	775.9	779.1	781.0	783.8	785.2	787.5	787.5	790.3	787.5	787.1	786.1
35°	758.1	760.9	761.8	766.1	767.5	769.8	769.8	772.1	769.8	746.0	589.0
37.5°	740.4	743.2	745.0	748.8	749.2	750.6	692.7	506.8	327.0	253.2	193.4
40°	719.3	722.6	724.5	725.9	510.1	323.7	222.8	181.2	181.2	182.6	184.0
42.5°	696.9	699.3	487.2	283.5	176.6	176.1	177.5	178.9	180.3	182.2	184.0
45°	547.9	276.5	175.6	171.4	172.8	174.7	176.6	178.4	180.8	182.6	183.6
47.5°	179.8	168.6	171.0	169.1	171.4	173.8	175.6	177.5	178.0	178.4	178.0
50°	166.3	166.3	167.7	167.7	169.6	170.5	170.5	170.5	168.6	168.2	166.8
52.5°	160.7	164.4	162.6	163.5	162.6	161.2	159.7	158.3	155.5	154.6	152.7
55°	157.9	159.3	154.6	153.2	151.3	147.6	145.7	143.9	141.5	140.6	138.3
57.5°	151.3	148.1	142.9	140.6	137.3	133.6	131.7	130.3	128.0	127.1	125.7
60°	139.2	132.7	129.4	126.6	122.8	119.6	118.2	117.2	115.4	114.9	113.5
62.5°	124.2	118.6	115.8	112.1	109.3	107.4	106.0	105.6	103.7	103.7	102.8
65°	107.9	105.1	102.8	99.0	97.6	95.8	95.3	94.8	93.9	93.4	92.5
67.5°	94.8	93.0	89.7	87.8	86.9	85.5	84.5	83.6	81.7	80.8	79.4
70°	83.1	81.7	78.5	77.1	75.2	72.9	71.5	70.5	69.1	68.2	66.8
72.5°	71.9	67.7	65.4	64.0	62.6	60.3	59.8	58.9	57.5	57.0	55.6
75°	57.9	54.7	53.2	52.3	50.9	49.5	49.5	49.5	48.1	47.6	47.2
77.5°	46.2	44.4	43.4	42.5	42.0	41.1	39.7	39.2	37.8	37.8	37.4
80°	35.5	34.6	33.6	33.2	32.7	31.8	30.8	30.4	29.0	29.0	28.5
82.5°	26.2	25.7	25.2	24.8	24.3	23.8	22.4	22.0	21.0	21.0	20.6
85°	18.7	18.2	17.3	16.8	16.8	16.3	14.9	14.5	13.5	13.5	13.5
87.5°	11.7	11.2	10.7	10.3	9.8	9.3	8.4	7.9	7.9	7.0	6.5
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: P1213676

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2
2.5°	1045.8	1053.8	1052.9	1058.5	1059.9	1062.7	1063.6	1064.1	1057.1	1062.7	1063.1
5°	1107.5	1108.9	1109.8	1112.2	1114.5	1115.0	1112.6	1109.8	1110.8	1108.9	1104.2
7.5°	1058.0	1051.0	1049.6	1047.7	1046.8	1045.8	1041.6	1045.4	1041.2	1039.3	1032.8
10°	997.3	990.7	990.3	990.3	991.7	991.2	990.3	988.4	992.1	989.8	988.4
12.5°	965.5	963.2	964.6	963.6	967.4	968.3	967.4	967.4	966.4	964.6	965.5
15°	946.4	944.5	945.9	944.5	947.3	947.8	945.4	946.8	944.5	942.2	941.2
17.5°	921.1	916.9	913.7	909.0	909.5	908.5	905.7	905.7	903.4	897.3	897.8
20°	872.6	868.3	866.5	866.5	868.8	869.7	869.3	870.2	867.9	866.9	863.2
22.5°	842.2	841.7	842.7	845.0	848.7	853.9	854.3	854.3	854.3	853.9	849.2
25°	831.4	831.4	832.4	835.7	838.5	842.2	843.1	844.1	843.1	843.1	838.9
27.5°	819.3	818.4	820.2	823.5	826.8	829.6	831.9	832.4	831.0	831.0	832.4
30°	804.4	803.9	806.2	809.5	812.3	815.1	817.4	819.3	817.4	817.4	816.0
32.5°	788.9	788.9	789.9	770.3	714.2	643.2	644.6	603.5	575.0	539.0	586.7
35°	492.3	358.3	307.8	260.6	227.5	206.0	205.5	198.5	195.2	192.9	192.4
37.5°	185.9	186.8	188.7	189.6	191.0	192.0	192.4	192.4	192.4	192.4	192.0
40°	185.4	187.3	188.7	190.1	191.5	192.4	192.4	192.9	193.4	193.4	193.4
42.5°	185.9	187.8	189.6	191.0	192.0	192.4	192.9	193.4	193.4	193.4	193.4
45°	185.4	186.4	186.4	186.8	186.8	186.8	187.3	187.3	186.8	186.4	187.3
47.5°	178.4	178.4	177.0	176.6	176.1	175.2	175.6	175.2	174.7	174.2	175.2
50°	166.3	164.4	163.5	162.6	162.1	161.2	161.6	161.2	160.7	159.7	161.2
52.5°	151.8	151.3	149.5	148.5	148.1	148.5	147.6	147.1	146.7	146.2	146.7
55°	137.8	135.9	135.5	134.5	134.1	134.5	134.1	133.6	133.1	132.7	133.1
57.5°	125.2	123.8	123.3	122.4	122.4	122.4	122.4	121.9	121.4	121.0	121.4
60°	113.0	112.1	111.6	111.6	111.2	111.2	111.2	110.7	110.2	110.2	110.7
62.5°	102.8	102.8	101.4	100.9	100.9	101.4	100.9	100.4	100.0	99.5	100.4
65°	92.0	90.2	89.7	88.7	87.8	88.3	87.8	87.3	86.9	86.4	87.3
67.5°	78.9	78.5	76.6	75.7	75.2	75.7	75.2	74.7	74.3	73.8	74.7
70°	66.3	66.3	64.5	64.0	63.5	63.5	63.1	63.1	62.6	62.1	63.1
72.5°	55.1	55.1	54.7	53.7	53.2	52.8	52.3	51.8	51.8	52.3	52.3
75°	45.8	44.8	43.0	43.4	43.0	42.5	42.5	42.0	41.6	42.5	42.0
77.5°	36.0	35.5	34.1	34.6	34.1	33.6	33.6	33.2	32.7	33.2	33.2
80°	27.1	27.1	26.6	26.2	26.2	25.7	25.2	25.2	24.8	25.2	25.2
82.5°	19.6	19.6	19.2	18.7	18.2	18.2	17.7	17.7	17.7	17.7	17.7
85°	12.6	12.1	12.1	11.2	11.2	11.2	10.7	10.7	10.7	10.7	10.7
87.5°	6.1	6.1	5.6	5.6	5.1	4.7	4.7	4.2	4.2	4.7	4.7
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: P1213676

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2
2.5°	1054.7	1060.8	1055.7	1058.0	1058.5	1066.4	1065.9	1067.8	1064.5	1060.8	1055.7
5°	1108.4	1105.6	1101.9	1110.8	1106.1	1111.7	1113.6	1117.3	1117.3	1116.8	1112.6
7.5°	1039.8	1033.7	1038.4	1041.6	1043.0	1039.3	1046.8	1055.2	1062.2	1066.4	1066.9
10°	986.1	987.9	987.5	988.9	992.1	991.7	996.3	1001.0	1002.9	1005.7	1006.6
12.5°	960.8	960.4	961.3	964.6	966.4	966.0	970.6	973.4	974.4	974.8	974.4
15°	940.7	937.5	939.8	940.3	941.7	941.7	947.3	951.5	953.4	954.3	953.4
17.5°	902.9	895.0	902.4	902.4	907.6	906.7	915.5	922.5	926.3	929.1	929.1
20°	865.5	861.8	864.6	863.7	867.4	866.9	872.6	877.2	880.5	882.8	885.6
22.5°	850.6	851.5	847.3	847.8	847.8	847.3	850.1	852.5	853.4	854.8	853.9
25°	840.8	841.7	840.3	838.0	837.1	838.0	839.4	842.2	842.7	841.7	838.5
27.5°	831.0	828.2	830.5	826.3	825.4	827.2	829.1	829.6	830.0	830.0	827.2
30°	816.0	813.7	816.0	814.2	812.3	814.2	815.6	815.6	816.5	817.0	813.7
32.5°	570.3	575.0	650.7	696.5	760.9	793.6	799.7	799.7	800.6	800.6	797.8
35°	194.3	194.8	210.7	228.4	266.2	313.0	374.2	405.9	513.3	641.8	766.1
37.5°	192.0	191.5	191.0	190.6	190.1	189.6	188.7	188.2	191.0	226.5	307.4
40°	192.9	192.4	191.5	191.0	190.6	189.6	189.2	188.2	187.3	186.4	185.4
42.5°	192.9	192.4	192.0	191.5	191.0	190.6	189.6	188.7	187.8	186.4	185.0
45°	186.4	186.4	186.8	186.8	187.3	187.3	187.3	186.8	186.8	186.4	184.5
47.5°	174.2	174.2	175.6	175.6	176.6	177.5	177.5	178.4	179.8	180.8	181.2
50°	160.2	160.2	161.6	162.1	163.0	164.4	165.8	166.3	167.7	169.6	171.4
52.5°	146.2	146.2	147.6	147.6	148.5	149.9	151.3	151.8	153.7	155.5	157.9
55°	133.1	133.1	134.1	134.5	135.0	135.9	137.3	137.3	139.2	140.6	142.9
57.5°	121.4	122.4	122.4	122.4	122.8	123.8	124.7	124.7	126.1	127.5	129.4
60°	110.2	111.2	111.2	111.2	111.6	112.1	113.0	113.0	114.0	114.9	116.8
62.5°	100.0	100.9	100.9	101.4	101.4	101.8	102.8	102.3	103.2	103.7	105.1
65°	86.9	87.8	88.3	88.7	89.2	90.2	91.6	91.1	92.5	93.4	94.8
67.5°	74.3	75.2	75.2	75.7	76.1	77.1	78.0	78.0	79.4	80.3	82.2
70°	62.6	63.5	63.5	64.0	64.5	65.4	66.3	65.9	67.3	68.2	69.6
72.5°	51.8	52.8	52.8	53.2	53.2	54.2	55.1	56.1	56.1	57.0	57.9
75°	42.0	42.5	43.0	43.0	43.4	43.9	44.8	45.8	46.2	46.7	47.6
77.5°	33.2	33.6	34.1	34.1	34.6	35.0	35.5	37.4	38.3	38.8	38.8
80°	25.2	25.7	25.7	25.7	26.2	26.6	27.6	27.6	29.4	29.4	29.9
82.5°	17.7	18.2	18.2	18.2	18.7	19.6	20.1	20.6	21.5	22.0	22.0
85°	10.7	11.2	11.2	11.2	11.7	12.1	13.1	13.5	14.0	14.0	14.5
87.5°	4.2	4.7	5.1	5.1	5.6	6.1	6.5	7.0	7.5	7.5	7.9
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: P1213676

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2
2.5°	1050.1	1053.3	1050.1	1051.9	1054.3	1050.1	1040.2	1036.5	1035.1	1029.5	1025.8
5°	1108.4	1108.4	1107.0	1110.8	1110.3	1103.8	1093.5	1088.8	1084.2	1078.1	1073.4
7.5°	1066.9	1070.6	1072.9	1087.4	1096.8	1097.7	1104.2	1105.6	1107.5	1105.6	1102.8
10°	1007.1	1005.7	1012.2	1025.8	1033.7	1037.9	1050.5	1056.6	1061.7	1072.0	1082.7
12.5°	973.4	975.3	978.1	987.9	995.4	993.5	998.7	1002.9	1008.9	1019.2	1034.6
15°	951.0	952.9	955.7	963.2	967.8	965.5	968.3	971.1	975.3	980.5	989.8
17.5°	926.7	930.0	933.3	941.2	945.4	945.0	947.3	948.2	949.6	952.9	959.4
20°	888.9	899.2	905.7	916.5	922.5	921.6	925.8	927.2	929.1	932.3	935.1
22.5°	854.3	857.1	860.4	872.1	882.4	895.0	897.8	901.5	906.2	909.5	912.3
25°	834.7	832.8	834.2	842.2	847.8	848.7	852.9	865.1	877.7	883.3	889.8
27.5°	823.0	821.2	820.7	824.4	825.4	823.0	822.1	825.8	835.2	844.5	864.1
30°	810.4	808.1	806.2	809.5	810.9	807.6	801.6	798.3	803.9	806.2	814.2
32.5°	795.5	793.1	792.2	794.1	795.0	792.2	785.7	781.9	781.0	779.1	781.0
35°	778.7	776.3	774.9	775.4	777.3	774.9	769.3	764.7	762.3	757.2	753.4
37.5°	401.2	568.5	738.0	755.8	757.6	757.2	751.6	746.4	744.1	738.0	736.2
40°	183.6	205.1	307.8	402.2	580.1	737.1	732.0	726.8	722.6	720.7	713.7
42.5°	183.1	183.6	184.0	181.7	225.1	383.5	566.1	706.7	703.9	699.3	694.1
45°	183.1	180.8	182.6	179.8	180.8	180.3	224.7	362.5	645.1	674.0	671.7
47.5°	181.2	179.8	181.7	179.4	176.6	178.0	176.1	178.4	278.4	472.2	646.9
50°	172.8	173.8	177.0	176.6	174.2	176.1	172.8	175.6	173.3	190.1	366.2
52.5°	160.2	162.1	165.4	168.2	169.1	171.4	170.5	171.4	169.6	170.0	170.5
55°	145.3	147.6	150.4	154.6	156.5	160.2	163.0	164.4	166.8	166.3	162.6
57.5°	131.3	133.6	135.9	140.1	144.3	146.2	151.3	154.1	160.2	158.8	157.9
60°	118.2	120.0	122.4	123.3	128.5	131.7	136.4	139.2	147.1	149.0	151.8
62.5°	106.5	107.4	109.3	110.7	114.0	117.2	119.6	124.2	128.5	134.5	138.7
65°	95.8	96.7	98.1	99.0	99.5	104.2	105.6	110.7	112.1	118.6	122.4
67.5°	83.6	85.5	87.3	88.3	89.2	92.0	93.0	95.3	98.6	101.4	106.0
70°	71.0	72.4	74.3	75.7	77.5	79.4	82.2	83.6	85.9	87.8	91.6
72.5°	59.3	60.7	61.7	63.1	64.5	65.9	68.2	71.5	73.3	76.6	77.5
75°	48.1	49.5	50.4	51.4	52.8	53.7	54.7	57.9	59.8	62.6	65.4
77.5°	39.7	39.7	40.6	43.4	43.0	43.0	43.9	45.8	47.2	49.0	51.8
80°	30.8	31.3	31.8	34.1	34.6	35.0	34.6	36.0	37.4	37.8	39.7
82.5°	22.9	23.4	23.4	24.8	26.2	26.2	26.2	26.6	28.0	28.5	29.4
85°	15.4	15.9	16.3	16.8	17.7	18.2	18.7	18.7	19.6	20.1	20.6
87.5°	8.4	9.3	9.8	10.3	10.7	11.2	11.7	12.1	12.6	13.1	13.5
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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CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2
2.5°	1024.4	1022.0	1020.6	1016.9	1016.0	1009.9	1010.8	1009.9	1009.9	1011.3	1016.0
5°	1068.3	1057.1	1054.3	1046.3	1039.8	1028.6	1021.6	1017.8	1012.2	1009.9	1013.2
7.5°	1098.2	1089.8	1082.7	1075.7	1066.4	1053.3	1043.5	1032.3	1023.0	1014.1	1011.7
10°	1093.0	1102.4	1102.4	1098.2	1089.3	1076.2	1064.5	1050.5	1034.2	1020.2	1011.7
12.5°	1049.6	1065.9	1079.0	1088.8	1097.7	1088.8	1077.1	1065.9	1047.7	1027.2	1011.7
15°	1001.9	1018.8	1035.1	1055.7	1077.1	1086.0	1085.6	1072.5	1056.1	1034.6	1013.2
17.5°	968.3	980.0	988.9	1011.3	1037.4	1060.3	1075.7	1076.7	1060.8	1041.6	1013.6
20°	943.1	951.5	959.0	971.6	994.5	1022.5	1051.0	1066.9	1064.1	1043.0	1015.0
22.5°	920.2	926.3	932.3	941.7	959.9	978.1	1011.3	1044.0	1058.0	1040.7	1013.6
25°	897.3	903.8	908.5	915.1	929.5	944.5	967.8	1008.5	1039.8	1038.8	1010.8
27.5°	870.2	879.1	884.7	893.6	903.4	914.6	930.5	968.8	1013.6	1029.5	1003.3
30°	837.5	850.6	859.0	868.8	877.2	887.0	899.6	923.0	978.6	1011.3	995.4
32.5°	790.3	813.7	832.4	841.7	851.1	859.5	870.7	890.3	935.6	986.5	986.5
35°	756.7	767.5	784.3	811.4	823.0	831.4	841.7	857.1	886.1	957.1	972.0
37.5°	730.6	734.8	743.2	769.8	791.7	805.3	815.6	825.4	853.9	916.9	953.4
40°	710.9	709.5	708.6	721.2	752.5	774.0	785.7	795.5	817.4	868.8	928.6
42.5°	688.0	686.6	682.0	685.2	700.7	736.6	754.4	765.1	783.3	818.4	901.5
45°	664.2	661.9	660.0	656.7	662.4	682.4	718.9	734.8	745.0	776.3	867.4
47.5°	639.9	636.7	634.3	631.5	628.3	637.6	672.2	700.7	718.4	738.0	826.3
50°	605.4	609.6	606.8	603.5	600.7	598.8	613.3	660.0	682.0	697.9	776.3
52.5°	285.4	554.9	578.3	575.0	571.3	568.0	571.3	606.8	646.5	659.1	716.1
55°	162.6	247.1	514.3	543.7	540.4	535.8	533.0	545.1	604.4	621.2	661.0
57.5°	156.5	156.9	227.0	490.0	508.2	504.0	500.7	503.5	554.0	582.5	612.8
60°	151.3	151.3	151.3	216.7	468.5	469.9	465.7	461.0	483.0	539.0	564.3
62.5°	140.1	142.9	144.3	144.3	213.9	433.9	429.7	428.3	429.3	486.7	515.7
65°	125.7	132.2	135.0	136.9	136.9	224.7	392.8	390.5	387.2	409.2	466.6
67.5°	109.8	116.3	122.4	126.1	126.6	130.8	234.5	351.7	347.1	347.5	414.3
70°	93.4	99.0	105.6	111.2	116.3	118.6	122.4	291.9	307.4	300.8	355.0
72.5°	80.8	83.1	87.8	93.4	99.5	105.1	108.4	116.3	266.7	259.7	270.0
75°	67.3	69.1	72.4	76.1	80.8	87.3	93.0	98.6	141.5	217.7	216.3
77.5°	52.3	55.6	59.3	61.7	64.0	68.7	76.1	81.7	87.3	147.1	173.3
80°	40.2	42.5	44.4	46.7	49.5	52.8	55.6	62.1	68.7	73.8	132.7
82.5°	29.9	31.3	32.7	33.6	34.6	36.4	41.6	43.9	48.1	52.8	62.6
85°	21.0	22.0	22.9	23.4	23.8	24.3	26.2	26.6	30.8	31.8	37.8
87.5°	13.5	14.0	14.9	15.4	15.4	15.9	16.3	16.3	16.3	15.4	18.7
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-LD5-21SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1019.2	1019.2
2.5°	1019.7	1027.2
5°	1018.3	1028.1
7.5°	1014.6	1023.9
10°	1008.9	1020.2
12.5°	1002.9	1013.6
15°	997.7	1005.7
17.5°	992.1	996.8
20°	984.7	988.4
22.5°	977.2	975.3
25°	968.8	964.6
27.5°	958.0	950.1
30°	948.2	934.2
32.5°	938.9	916.0
35°	926.3	897.3
37.5°	913.2	878.2
40°	897.8	856.2
42.5°	881.4	834.2
45°	860.9	813.2
47.5°	842.7	788.0
50°	817.4	760.9
52.5°	786.6	735.7
55°	750.2	704.9
57.5°	710.9	672.6
60°	668.9	635.7
62.5°	618.0	597.4
65°	558.2	553.5
67.5°	480.2	504.9
70°	393.8	449.4
72.5°	329.3	390.5
75°	270.0	324.6
77.5°	213.9	254.6
80°	133.6	186.4
82.5°	89.7	122.4
85°	54.2	58.4
87.5°	21.0	21.5
90°	0.0	0.0

(END OF REPORT)