

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: P1214171

Luminaire Tested: 4SNLED-LD5-55HL-LW-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33520)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-55HL-LW-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

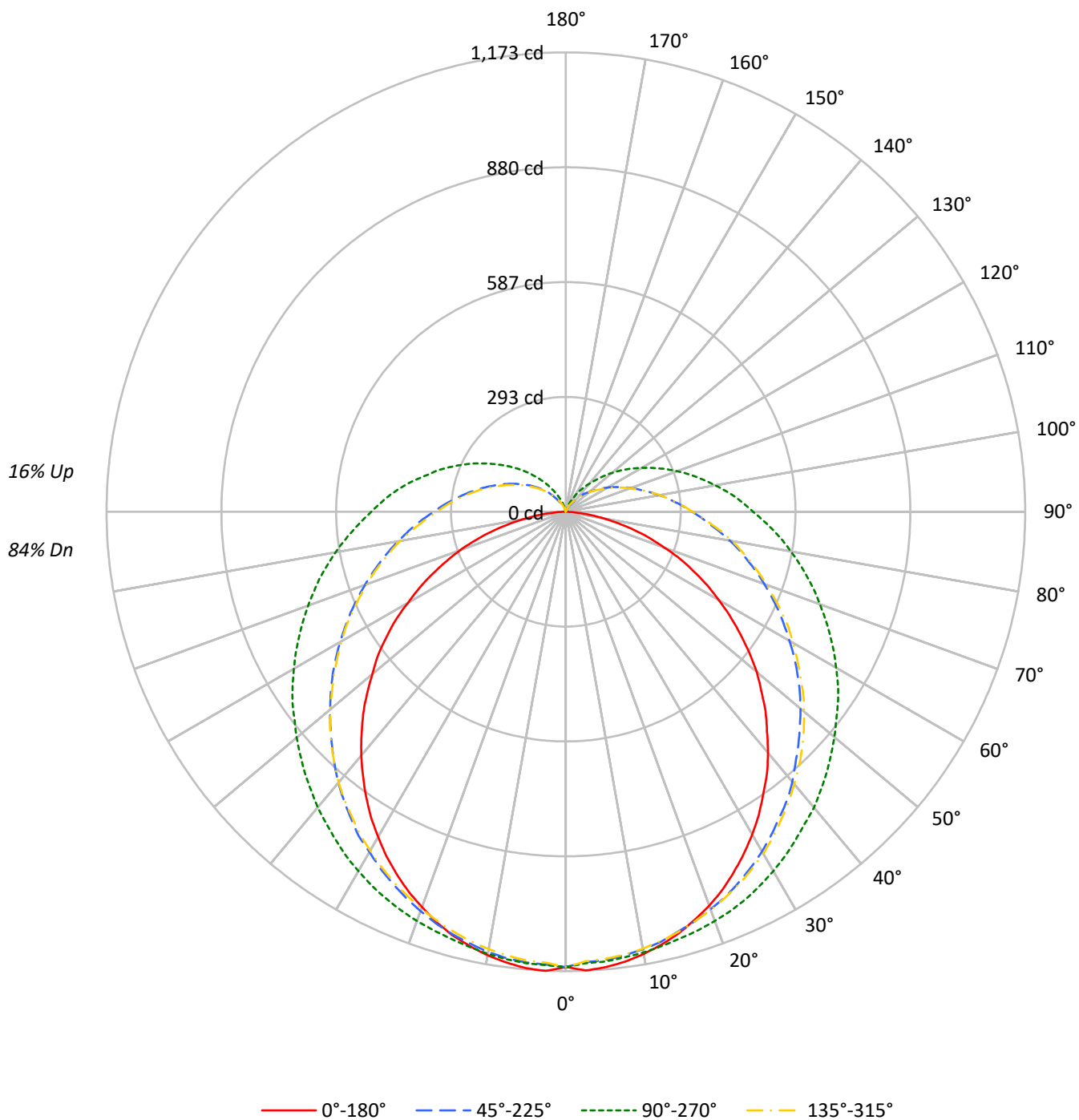
Lumens per Lamp: N/A
Luminaire Lumens: 5050.0 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: 4SNLED-LD5-55HL-LW-UNV-L950-CD1-U

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84	84	84
1	102	96	91	86	98	92	87	83	85	81	77	78	75	72	72	70	67	64	64	64
2	92	82	74	68	87	79	72	66	73	67	62	67	62	58	62	58	54	51	51	51
3	83	71	62	55	79	69	60	54	63	56	51	58	52	48	54	49	45	42	42	42
4	76	63	53	46	72	60	52	45	56	48	42	51	45	40	47	42	38	35	35	35
5	69	56	46	39	66	54	45	38	50	42	36	46	39	34	42	37	33	30	30	30
6	64	50	41	34	61	48	39	33	45	37	31	41	35	30	38	33	28	26	26	26
7	59	45	36	30	56	43	35	29	40	33	28	38	31	26	35	29	25	23	23	23
8	55	41	32	26	52	40	31	26	37	30	24	34	28	23	32	26	22	20	20	20
9	51	37	29	23	49	36	28	23	34	27	22	32	25	21	30	24	20	18	18	18
10	48	34	26	21	46	33	26	21	31	24	20	29	23	19	27	22	18	16	16	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9393	9393	9393	9393
5°	9443	9052	9463	9091
10°	9355	8795	9386	8823
15°	9247	8575	9287	8584
20°	9102	8414	9133	8414
25°	8922	8271	8976	8262
30°	8721	8125	8788	8125
35°	8487	7988	8581	7998
40°	8255	7908	8356	7908
45°	7990	7825	8112	7835
50°	7713	7775	7816	7796
55°	7326	7782	7557	7816
60°	6918	7806	7143	7854
65°	6460	7885	6745	7962
70°	5816	8029	6269	8143
75°	5075	8292	5553	8450
80°	3925	8680	4459	8881
85°	2343	9304	2931	9562

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 10691 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	2.2
10°-20°	316.5	6.3
20°-30°	485.2	9.6
30°-40°	598.6	11.9
40°-50°	649.4	12.9
50°-60°	640.1	12.7
60°-70°	578.7	11.5
70°-80°	482.1	9.5
80°-90°	373.4	7.4
90°-100°	283.2	5.6
100°-110°	209.6	4.2
110°-120°	145.8	2.9
120°-130°	93.0	1.8
130°-140°	52.2	1.0
140°-150°	23.8	0.5
150°-160°	7.4	0.1
160°-170°	0.9	0.0
170°-180°	0.0	0.0
0°-30°	911.8	18.1
0°-40°	1510.4	29.9
0°-60°	2799.8	55.4
0°-90°	4234.1	83.8
90°-120°	638.6	12.6
90°-150°	807.6	16.0
90°-180°	816.0	16.2
0°-180°	5050.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1162	1162	1162	1162	1162	
5°	1167	1153	1170	1158	1167	111
15°	1114	1128	1119	1129	1114	314
25°	1015	1090	1021	1089	1015	468
35°	879	1023	889	1024	879	551
45°	721	942	732	943	721	555
55°	543	848	560	852	543	486
65°	360	744	376	752	360	357
75°	182	638	199	650	182	192
85°	34	531	43	546	34	41
90°	1	478	2	497	1	2
95°	1	434	1	455	1	1
105°	1	344	1	365	1	1
115°	1	262	1	286	1	1
125°	1	189	1	210	1	1
135°	1	123	1	145	1	1
145°	1	71	1	87	1	1
155°	1	29	1	40	1	1
165°	1	5	1	7	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4
2.5°	1172.2	1172.2	1170.9	1168.5	1169.7	1173.4	1170.9	1164.8	1161.1	1151.3	1153.8
5°	1167.3	1167.3	1166.0	1163.6	1164.8	1169.7	1167.3	1162.4	1157.5	1148.9	1152.6
7.5°	1158.7	1158.7	1157.5	1155.0	1157.5	1162.4	1159.9	1155.0	1151.3	1142.7	1146.4
10°	1146.4	1147.6	1146.4	1142.7	1147.6	1152.6	1151.3	1145.2	1141.5	1134.2	1137.8
12.5°	1131.7	1132.9	1131.7	1130.5	1132.9	1140.3	1137.8	1132.9	1130.5	1124.4	1128.0
15°	1114.5	1115.8	1113.3	1113.3	1115.8	1123.1	1123.1	1118.2	1115.8	1109.6	1117.0
17.5°	1092.5	1093.7	1092.5	1092.5	1094.9	1102.3	1103.5	1101.1	1098.6	1096.2	1103.5
20°	1070.4	1069.2	1069.2	1068.0	1072.9	1083.9	1082.7	1082.7	1080.2	1080.2	1088.8
22.5°	1044.7	1044.7	1043.4	1043.4	1049.6	1059.4	1059.4	1061.8	1059.4	1064.3	1071.6
25°	1015.2	1016.5	1015.2	1017.7	1022.6	1033.6	1034.8	1038.5	1039.7	1044.7	1053.2
27.5°	984.6	985.8	984.6	987.0	995.6	1004.2	1010.3	1015.2	1016.5	1023.8	1034.8
30°	951.5	951.5	952.7	955.1	965.0	978.4	983.3	989.5	989.5	1001.7	1012.8
32.5°	917.1	917.1	917.1	922.0	933.1	949.0	955.1	962.5	965.0	977.2	989.5
35°	879.1	880.4	880.4	884.0	898.7	914.7	923.3	931.9	936.8	951.5	963.7
37.5°	843.6	846.0	842.3	847.2	868.1	881.6	891.4	900.0	908.6	928.2	938.0
40°	803.1	805.6	804.3	814.1	831.3	848.5	859.5	868.1	880.4	900.0	911.0
42.5°	760.2	762.6	765.1	776.1	794.5	811.7	825.2	836.2	850.9	868.1	886.5
45°	721.0	721.0	724.6	738.1	757.7	776.1	792.1	804.3	821.5	839.9	858.3
47.5°	676.8	678.0	682.9	698.9	719.7	741.8	756.5	772.5	790.8	810.5	831.3
50°	636.4	636.4	643.7	660.9	680.5	705.0	721.0	739.4	759.0	782.3	803.1
52.5°	589.8	592.2	603.3	619.2	644.9	667.0	685.4	705.0	728.3	752.8	776.1
55°	543.2	548.1	556.7	578.7	605.7	626.5	648.6	673.1	695.2	722.2	749.2
57.5°	497.8	501.5	515.0	537.0	565.2	591.0	614.3	637.6	664.6	691.5	719.7
60°	451.2	456.1	472.1	494.1	524.8	551.8	578.7	603.3	631.5	659.7	689.1
62.5°	407.1	410.8	429.1	454.9	485.5	515.0	541.9	571.4	602.0	629.0	658.4
65°	360.5	366.6	387.5	410.8	446.3	475.7	506.4	538.3	570.1	599.6	627.8
67.5°	317.6	321.2	343.3	370.3	405.8	439.0	470.8	505.2	538.3	568.9	597.1
70°	267.3	279.6	301.6	329.8	367.8	402.2	436.5	472.1	507.6	539.5	566.5
72.5°	225.6	235.4	259.9	290.6	327.4	367.8	403.4	441.4	477.0	510.1	538.3
75°	181.5	191.3	219.5	253.8	291.8	334.7	371.5	410.8	447.5	480.6	510.1
77.5°	138.6	150.8	181.5	217.0	258.7	302.9	340.9	380.1	418.1	453.7	483.1
80°	99.3	112.8	145.9	186.4	226.8	271.0	312.7	351.9	389.9	425.5	456.1
82.5°	63.8	78.5	114.0	154.5	197.4	241.5	284.5	323.7	361.7	397.3	429.1
85°	34.3	50.3	87.1	127.5	170.4	214.6	257.5	299.2	336.0	369.1	403.4
87.5°	9.8	29.4	65.0	105.4	149.6	190.0	231.7	273.4	310.2	345.8	376.4
90°	1.2	17.2	49.0	87.1	130.0	169.2	210.9	250.1	286.9	322.5	353.1
92.5°	1.2	11.0	38.0	72.3	111.6	152.0	193.7	231.7	266.1	301.6	332.3
95°	1.2	8.6	30.7	61.3	98.1	136.1	175.3	212.1	247.7	280.8	311.4
97.5°	1.2	6.1	24.5	52.7	85.8	121.4	159.4	196.2	230.5	262.4	290.6
100°	1.2	4.9	19.6	45.4	74.8	109.1	143.5	179.0	212.1	242.8	272.2
102.5°	1.2	3.7	17.2	38.0	66.2	96.9	130.0	163.1	195.0	224.4	253.8
105°	1.2	3.7	14.7	33.1	58.9	87.1	117.7	149.6	179.0	207.2	234.2
107.5°	1.2	2.5	12.3	28.2	51.5	78.5	106.7	137.3	164.3	191.3	217.0
110°	1.2	2.5	9.8	25.7	45.4	69.9	96.9	125.1	150.8	176.6	201.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.2	2.5	8.6	22.1	39.2	62.5	87.1	112.8	137.3	163.1	185.1
115°	1.2	2.5	7.4	19.6	36.8	53.9	78.5	101.8	126.3	149.6	170.4
117.5°	1.2	2.5	6.1	15.9	31.9	49.0	68.7	92.0	114.0	136.1	155.7
120°	1.2	2.5	4.9	14.7	28.2	44.1	61.3	82.2	103.0	123.8	144.7
122.5°	1.2	1.2	4.9	12.3	24.5	39.2	56.4	72.3	92.0	111.6	130.0
125°	1.2	1.2	4.9	11.0	20.8	35.6	50.3	65.0	82.2	99.3	115.3
127.5°	1.2	1.2	3.7	8.6	18.4	30.7	44.1	60.1	72.3	88.3	104.2
130°	1.2	1.2	3.7	7.4	15.9	25.7	39.2	52.7	67.4	78.5	92.0
132.5°	1.2	1.2	3.7	6.1	12.3	20.8	33.1	45.4	58.9	71.1	82.2
135°	1.2	1.2	2.5	4.9	9.8	17.2	27.0	38.0	51.5	63.8	74.8
137.5°	1.2	1.2	2.5	4.9	7.4	14.7	20.8	30.7	42.9	53.9	65.0
140°	1.2	1.2	2.5	3.7	6.1	11.0	17.2	24.5	34.3	44.1	56.4
142.5°	1.2	1.2	1.2	3.7	4.9	8.6	13.5	19.6	27.0	35.6	45.4
145°	1.2	1.2	1.2	3.7	4.9	6.1	11.0	15.9	20.8	27.0	35.6
147.5°	1.2	1.2	1.2	2.5	3.7	4.9	8.6	12.3	15.9	20.8	25.7
150°	1.2	1.2	1.2	2.5	3.7	4.9	6.1	8.6	12.3	17.2	20.8
152.5°	1.2	1.2	1.2	2.5	2.5	3.7	4.9	6.1	8.6	12.3	14.7
155°	1.2	1.2	1.2	1.2	2.5	3.7	4.9	4.9	6.1	8.6	11.0
157.5°	1.2	1.2	1.2	1.2	2.5	2.5	3.7	3.7	4.9	4.9	7.4
160°	1.2	1.2	1.2	1.2	1.2	2.5	2.5	3.7	3.7	3.7	3.7
162.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	3.7	3.7
165°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5
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°	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4
2.5°	1153.8	1155.0	1158.7	1158.7	1156.2	1156.2	1155.0	1153.8	1155.0	1157.5	1157.5
5°	1151.3	1152.6	1156.2	1157.5	1155.0	1153.8	1153.8	1152.6	1153.8	1156.2	1156.2
7.5°	1146.4	1147.6	1151.3	1152.6	1150.1	1150.1	1148.9	1147.6	1150.1	1151.3	1151.3
10°	1139.1	1140.3	1145.2	1146.4	1145.2	1144.0	1144.0	1142.7	1144.0	1146.4	1146.4
12.5°	1129.3	1131.7	1137.8	1137.8	1137.8	1136.6	1136.6	1135.4	1136.6	1139.1	1137.8
15°	1118.2	1123.1	1128.0	1130.5	1130.5	1130.5	1129.3	1128.0	1130.5	1131.7	1130.5
17.5°	1106.0	1112.1	1119.4	1121.9	1121.9	1123.1	1121.9	1120.7	1123.1	1123.1	1121.9
20°	1093.7	1099.8	1107.2	1109.6	1112.1	1113.3	1113.3	1112.1	1113.3	1114.5	1113.3
22.5°	1077.8	1085.1	1093.7	1097.4	1099.8	1102.3	1102.3	1102.3	1103.5	1104.7	1102.3
25°	1060.6	1069.2	1079.0	1082.7	1087.6	1088.8	1090.0	1090.0	1091.2	1092.5	1088.8
27.5°	1042.2	1052.0	1061.8	1068.0	1071.6	1074.1	1074.1	1075.3	1076.5	1077.8	1074.1
30°	1020.1	1034.8	1043.4	1048.3	1053.2	1056.9	1058.1	1059.4	1060.6	1061.8	1058.1
32.5°	1000.5	1012.8	1023.8	1029.9	1036.1	1041.0	1042.2	1042.2	1044.7	1044.7	1041.0
35°	977.2	991.9	1003.0	1009.1	1016.5	1020.1	1022.6	1022.6	1025.0	1025.0	1021.4
37.5°	953.9	968.6	980.9	988.3	996.8	1001.7	1003.0	1003.0	1005.4	1005.4	1000.5
40°	929.4	945.3	958.8	967.4	974.8	980.9	982.1	985.8	985.8	984.6	979.7
42.5°	904.9	919.6	934.3	944.1	953.9	960.1	962.5	963.7	963.7	962.5	958.8
45°	877.9	895.1	908.6	920.8	930.6	936.8	940.4	941.7	941.7	939.2	935.5
47.5°	852.2	869.3	882.8	896.3	906.1	913.5	917.1	918.4	917.1	915.9	912.2
50°	825.2	844.8	858.3	871.8	881.6	887.7	893.8	895.1	893.8	892.6	885.3
52.5°	797.0	817.8	832.5	846.0	857.1	864.4	869.3	870.5	870.5	868.1	863.2
55°	768.8	787.2	805.6	820.3	832.5	839.9	846.0	848.5	846.0	843.6	837.4
57.5°	743.0	760.2	778.6	794.5	806.8	816.6	821.5	824.0	821.5	817.8	811.7
60°	712.4	730.8	751.6	766.3	779.8	789.6	792.1	797.0	794.5	790.8	784.7
62.5°	682.9	705.0	723.4	741.8	752.8	763.9	768.8	771.2	768.8	765.1	759.0
65°	652.3	676.8	695.2	713.6	725.9	736.9	743.0	744.3	741.8	738.1	732.0
67.5°	624.1	647.4	667.0	686.6	697.7	708.7	714.8	717.3	714.8	709.9	703.8
70°	595.9	619.2	642.5	657.2	670.7	682.9	686.6	690.3	687.9	682.9	675.6
72.5°	567.7	592.2	615.5	630.2	644.9	656.0	660.9	664.6	662.1	657.2	648.6
75°	538.3	564.0	587.3	603.3	618.0	629.0	633.9	637.6	635.1	630.2	620.4
77.5°	511.3	537.0	559.1	576.3	591.0	600.8	609.4	610.6	608.2	603.3	593.4
80°	483.1	508.8	532.1	549.3	564.0	573.8	580.0	583.6	581.2	576.3	566.5
82.5°	458.6	481.9	505.2	522.3	537.0	549.3	554.2	557.9	556.7	549.3	541.9
85°	431.6	458.6	477.0	495.4	510.1	522.3	526.0	530.9	529.7	523.6	513.7
87.5°	404.6	431.6	453.7	472.1	485.5	495.4	501.5	503.9	502.7	496.6	485.5
90°	382.5	407.1	429.1	448.8	459.8	470.8	477.0	478.2	478.2	470.8	462.2
92.5°	361.7	385.0	407.1	425.5	439.0	448.8	453.7	456.1	454.9	448.8	439.0
95°	338.4	364.2	385.0	403.4	416.9	426.7	431.6	434.0	432.8	426.7	416.9
97.5°	318.8	342.1	362.9	380.1	393.6	403.4	408.3	410.8	410.8	404.6	394.8
100°	299.2	322.5	342.1	359.3	371.5	381.3	386.2	387.5	386.2	381.3	371.5
102.5°	279.6	301.6	321.2	337.2	350.7	359.3	364.2	365.4	365.4	359.3	349.4
105°	259.9	282.0	300.4	317.6	328.6	337.2	340.9	344.5	343.3	338.4	328.6
107.5°	241.5	263.6	280.8	296.7	307.8	316.3	320.0	323.7	322.5	317.6	307.8
110°	224.4	245.2	261.2	277.1	286.9	295.5	301.6	302.9	300.4	295.5	286.9

TEST NUMBER: P1214171

CATALOG NUMBER: 4SNLED-LD5-55HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	208.4	226.8	242.8	257.5	268.5	274.7	279.6	282.0	279.6	274.7	268.5
115°	191.3	209.7	225.6	239.1	248.9	256.3	259.9	262.4	259.9	255.0	248.9
117.5°	175.3	192.5	208.4	221.9	230.5	236.6	240.3	242.8	240.3	236.6	230.5
120°	161.8	176.6	191.3	203.5	213.3	218.2	221.9	224.4	223.2	218.2	212.1
122.5°	145.9	161.8	175.3	187.6	196.2	201.1	203.5	206.0	204.8	201.1	195.0
125°	132.4	145.9	159.4	170.4	179.0	183.9	186.4	188.8	187.6	183.9	176.6
127.5°	117.7	132.4	143.5	154.5	160.6	168.0	169.2	171.7	170.4	166.8	160.6
130°	106.7	117.7	128.7	138.6	145.9	150.8	153.3	154.5	152.0	149.6	143.5
132.5°	93.2	105.4	115.3	123.8	128.7	133.6	136.1	137.3	137.3	133.6	128.7
135°	83.4	92.0	100.5	109.1	114.0	118.9	121.4	122.6	121.4	118.9	114.0
137.5°	74.8	82.2	88.3	95.6	101.8	104.2	106.7	106.7	105.4	104.2	100.5
140°	65.0	73.6	79.7	84.6	89.5	90.7	93.2	93.2	92.0	90.7	88.3
142.5°	55.2	62.5	68.7	74.8	78.5	80.9	82.2	83.4	82.2	80.9	77.2
145°	44.1	52.7	58.9	62.5	67.4	68.7	69.9	71.1	69.9	68.7	65.0
147.5°	34.3	41.7	47.8	52.7	56.4	57.6	58.9	60.1	58.9	56.4	55.2
150°	24.5	30.7	38.0	42.9	45.4	47.8	47.8	47.8	49.0	46.6	44.1
152.5°	19.6	22.1	27.0	31.9	35.6	36.8	38.0	38.0	36.8	36.8	34.3
155°	13.5	15.9	19.6	23.3	27.0	28.2	29.4	29.4	28.2	28.2	27.0
157.5°	8.6	11.0	13.5	15.9	19.6	20.8	22.1	22.1	22.1	20.8	19.6
160°	4.9	6.1	7.4	9.8	12.3	13.5	14.7	14.7	14.7	14.7	13.5
162.5°	3.7	3.7	3.7	4.9	6.1	7.4	8.6	8.6	8.6	8.6	7.4
165°	2.5	2.5	2.5	2.5	2.5	3.7	4.9	4.9	4.9	4.9	4.9
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: P1214171

CATALOG NUMBER: 4SNLED-LD5-55HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4
2.5°	1156.2	1156.2	1157.5	1155.0	1147.6	1148.9	1148.9	1153.8	1156.2	1157.5	1163.6
5°	1153.8	1153.8	1156.2	1152.6	1146.4	1146.4	1146.4	1151.3	1152.6	1155.0	1159.9
7.5°	1150.1	1150.1	1151.3	1147.6	1140.3	1140.3	1139.1	1144.0	1146.4	1147.6	1152.6
10°	1144.0	1144.0	1145.2	1141.5	1132.9	1132.9	1131.7	1135.4	1136.6	1139.1	1142.7
12.5°	1135.4	1135.4	1135.4	1131.7	1123.1	1121.9	1120.7	1124.4	1124.4	1125.6	1129.3
15°	1128.0	1125.6	1125.6	1121.9	1113.3	1110.9	1108.4	1109.6	1112.1	1110.9	1113.3
17.5°	1119.4	1117.0	1114.5	1110.9	1099.8	1096.2	1093.7	1094.9	1093.7	1092.5	1094.9
20°	1109.6	1106.0	1104.7	1098.6	1087.6	1081.4	1076.5	1074.1	1075.3	1071.6	1072.9
22.5°	1098.6	1093.7	1091.2	1083.9	1072.9	1065.5	1059.4	1054.5	1053.2	1048.3	1049.6
25°	1085.1	1079.0	1075.3	1069.2	1056.9	1048.3	1041.0	1033.6	1029.9	1023.8	1022.6
27.5°	1069.2	1063.0	1058.1	1052.0	1039.7	1028.7	1020.1	1010.3	1005.4	998.1	994.4
30°	1053.2	1045.9	1038.5	1033.6	1020.1	1007.9	994.4	985.8	978.4	969.9	963.7
32.5°	1033.6	1026.3	1018.9	1011.5	999.3	984.6	973.5	960.1	951.5	941.7	934.3
35°	1014.0	1004.2	996.8	987.0	976.0	958.8	945.3	931.9	920.8	909.8	901.2
37.5°	991.9	984.6	973.5	965.0	951.5	934.3	919.6	902.4	892.6	877.9	866.9
40°	971.1	962.5	951.5	940.4	926.9	907.3	891.4	871.8	860.7	843.6	832.5
42.5°	950.2	938.0	926.9	914.7	900.0	881.6	862.0	842.3	827.6	811.7	795.8
45°	926.9	913.5	900.0	886.5	871.8	853.4	832.5	811.7	793.3	778.6	759.0
47.5°	902.4	888.9	873.0	858.3	842.3	824.0	801.9	779.8	760.2	743.0	722.2
50°	877.9	864.4	847.2	831.3	812.9	794.5	771.2	745.5	724.6	702.6	684.2
52.5°	852.2	838.7	822.7	801.9	782.3	763.9	739.4	712.4	689.1	670.7	647.4
55°	826.4	812.9	794.5	773.7	754.1	730.8	707.5	680.5	654.7	632.7	609.4
57.5°	799.4	787.2	766.3	749.2	724.6	700.1	675.6	649.8	621.6	595.9	568.9
60°	772.5	759.0	739.4	718.5	694.0	669.5	643.7	615.5	586.1	557.9	533.4
62.5°	747.9	730.8	712.4	690.3	664.6	641.3	611.8	581.2	551.8	522.3	492.9
65°	719.7	701.3	684.2	662.1	635.1	608.2	578.7	548.1	516.2	484.3	454.9
67.5°	691.5	673.1	654.7	632.7	604.5	576.3	545.6	515.0	479.4	448.8	414.4
70°	663.3	648.6	625.3	602.0	576.3	545.6	515.0	481.9	445.1	412.0	376.4
72.5°	635.1	620.4	597.1	572.6	548.1	516.2	483.1	450.0	415.7	377.6	339.6
75°	608.2	589.8	568.9	545.6	519.9	486.8	453.7	419.3	378.9	343.3	304.1
77.5°	582.4	565.2	544.4	518.6	490.4	458.6	424.2	388.7	348.2	310.2	267.3
80°	554.2	537.0	516.2	490.4	462.2	431.6	394.8	358.0	318.8	277.1	233.0
82.5°	527.2	511.3	488.0	464.7	434.0	403.4	366.6	329.8	288.1	247.7	204.8
85°	499.0	483.1	461.0	436.5	407.1	374.0	339.6	302.9	261.2	219.5	176.6
87.5°	474.5	456.1	434.0	409.5	380.1	348.2	315.1	275.9	235.4	195.0	150.8
90°	448.8	431.6	409.5	385.0	355.6	323.7	289.4	252.6	213.3	171.7	130.0
92.5°	426.7	408.3	387.5	362.9	333.5	302.9	268.5	231.7	193.7	153.3	112.8
95°	404.6	386.2	366.6	342.1	312.7	282.0	247.7	212.1	175.3	136.1	98.1
97.5°	380.1	364.2	344.5	321.2	291.8	262.4	229.3	195.0	159.4	121.4	85.8
100°	360.5	342.1	323.7	299.2	272.2	244.0	210.9	177.8	143.5	107.9	74.8
102.5°	338.4	321.2	302.9	279.6	252.6	224.4	193.7	161.8	130.0	96.9	65.0
105°	317.6	301.6	282.0	259.9	234.2	207.2	177.8	148.4	117.7	85.8	57.6
107.5°	296.7	280.8	262.4	241.5	217.0	190.0	163.1	133.6	105.4	77.2	51.5
110°	275.9	261.2	244.0	223.2	199.9	175.3	149.6	122.6	94.4	68.7	45.4

TEST NUMBER: P1214171

CATALOG NUMBER: 4SNLED-LD5-55HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	257.5	242.8	225.6	206.0	183.9	160.6	136.1	110.4	84.6	61.3	39.2
115°	239.1	225.6	208.4	191.3	169.2	147.1	123.8	99.3	76.0	55.2	34.3
117.5°	220.7	207.2	191.3	174.1	154.5	133.6	111.6	88.3	68.7	49.0	30.7
120°	202.3	190.0	175.3	159.4	142.2	121.4	99.3	79.7	61.3	42.9	27.0
122.5°	185.1	174.1	160.6	145.9	127.5	107.9	89.5	72.3	55.2	38.0	22.1
125°	169.2	158.2	145.9	131.2	114.0	96.9	80.9	65.0	47.8	33.1	18.4
127.5°	153.3	142.2	130.0	116.5	103.0	87.1	72.3	57.6	42.9	29.4	15.9
130°	137.3	127.5	116.5	105.4	92.0	77.2	65.0	50.3	36.8	23.3	13.5
132.5°	121.4	114.0	104.2	93.2	80.9	69.9	56.4	44.1	31.9	20.8	12.3
135°	107.9	100.5	92.0	82.2	72.3	61.3	49.0	38.0	27.0	17.2	9.8
137.5°	95.6	89.5	80.9	72.3	63.8	52.7	42.9	31.9	22.1	14.7	7.4
140°	84.6	78.5	71.1	62.5	55.2	45.4	35.6	25.7	19.6	12.3	6.1
142.5°	73.6	67.4	61.3	53.9	46.6	38.0	29.4	22.1	15.9	9.8	6.1
145°	62.5	57.6	51.5	45.4	38.0	30.7	24.5	18.4	12.3	7.4	4.9
147.5°	51.5	47.8	41.7	36.8	30.7	24.5	19.6	14.7	9.8	6.1	3.7
150°	41.7	38.0	33.1	28.2	24.5	19.6	15.9	11.0	7.4	6.1	3.7
152.5°	31.9	29.4	25.7	23.3	19.6	14.7	11.0	8.6	6.1	4.9	2.5
155°	25.7	23.3	20.8	17.2	14.7	11.0	8.6	6.1	4.9	3.7	2.5
157.5°	18.4	17.2	14.7	12.3	9.8	7.4	6.1	6.1	3.7	2.5	1.2
160°	12.3	11.0	9.8	7.4	6.1	6.1	4.9	3.7	2.5	2.5	1.2
162.5°	7.4	6.1	6.1	6.1	4.9	4.9	3.7	2.5	2.5	1.2	1.2
165°	4.9	4.9	4.9	3.7	3.7	3.7	2.5	1.2	1.2	1.2	1.2
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: P1214171

CATALOG NUMBER: 4SNLED-LD5-55HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4
2.5°	1163.6	1159.9	1164.8	1173.4	1174.6	1173.4	1170.9	1174.6	1179.5	1178.3	1169.7
5°	1161.1	1156.2	1161.1	1169.7	1169.7	1168.5	1167.3	1170.9	1175.8	1174.6	1167.3
7.5°	1153.8	1148.9	1153.8	1161.1	1162.4	1159.9	1159.9	1163.6	1168.5	1167.3	1161.1
10°	1144.0	1139.1	1141.5	1150.1	1152.6	1150.1	1150.1	1153.8	1159.9	1158.7	1151.3
12.5°	1129.3	1125.6	1128.0	1135.4	1137.8	1136.6	1135.4	1140.3	1146.4	1146.4	1139.1
15°	1113.3	1108.4	1110.9	1119.4	1120.7	1118.2	1119.4	1123.1	1130.5	1130.5	1124.4
17.5°	1094.9	1088.8	1092.5	1098.6	1099.8	1099.8	1099.8	1104.7	1113.3	1112.1	1107.2
20°	1074.1	1065.5	1068.0	1074.1	1076.5	1076.5	1076.5	1085.1	1091.2	1091.2	1086.3
22.5°	1049.6	1043.4	1043.4	1049.6	1053.2	1052.0	1052.0	1059.4	1068.0	1066.7	1066.7
25°	1021.4	1016.5	1014.0	1021.4	1022.6	1023.8	1026.3	1033.6	1043.4	1043.4	1044.7
27.5°	991.9	987.0	985.8	991.9	993.2	994.4	996.8	1005.4	1015.2	1016.5	1018.9
30°	963.7	956.4	953.9	958.8	961.3	962.5	962.5	976.0	984.6	988.3	993.2
32.5°	930.6	923.3	917.1	925.7	926.9	929.4	930.6	944.1	953.9	960.1	967.4
35°	897.5	885.3	882.8	888.9	891.4	892.6	895.1	909.8	923.3	928.2	938.0
37.5°	860.7	852.2	844.8	850.9	853.4	854.6	862.0	875.4	888.9	896.3	906.1
40°	826.4	815.4	809.2	812.9	815.4	816.6	825.2	839.9	855.8	864.4	876.7
42.5°	788.4	773.7	768.8	772.5	773.7	777.4	784.7	804.3	820.3	832.5	842.3
45°	750.4	739.4	728.3	732.0	733.2	735.7	746.7	767.6	784.7	799.4	810.5
47.5°	711.1	697.7	686.6	689.1	694.0	695.2	707.5	732.0	747.9	763.9	778.6
50°	671.9	653.5	644.9	644.9	647.4	653.5	669.5	694.0	711.1	729.5	745.5
52.5°	631.5	614.3	604.5	605.7	608.2	615.5	630.2	654.7	674.4	694.0	713.6
55°	591.0	572.6	562.8	560.3	562.8	572.6	589.8	615.5	635.1	658.4	679.3
57.5°	550.5	528.5	519.9	516.2	518.6	530.9	548.1	575.1	599.6	621.6	646.2
60°	506.4	489.2	474.5	465.9	472.1	488.0	506.4	534.6	560.3	584.9	611.8
62.5°	468.4	446.3	430.4	421.8	427.9	441.4	467.2	494.1	522.3	550.5	577.5
65°	425.5	403.4	385.0	376.4	382.5	398.5	424.2	453.7	484.3	512.5	544.4
67.5°	383.8	360.5	338.4	329.8	337.2	354.3	382.5	415.7	448.8	478.2	512.5
70°	343.3	317.6	294.3	288.1	293.0	316.3	343.3	376.4	410.8	445.1	480.6
72.5°	306.5	274.7	250.1	242.8	248.9	274.7	305.3	339.6	376.4	413.2	451.2
75°	263.6	234.2	207.2	198.6	206.0	229.3	267.3	304.1	343.3	382.5	418.1
77.5°	229.3	195.0	166.8	153.3	165.5	195.0	231.7	271.0	311.4	351.9	392.4
80°	193.7	158.2	127.5	112.8	126.3	158.2	195.0	237.9	283.2	323.7	360.5
82.5°	161.8	123.8	92.0	76.0	90.7	126.3	166.8	209.7	253.8	294.3	337.2
85°	132.4	93.2	60.1	42.9	63.8	95.6	138.6	182.7	228.1	269.7	311.4
87.5°	107.9	69.9	36.8	18.4	39.2	74.8	115.3	159.4	204.8	246.5	285.7
90°	88.3	50.3	19.6	2.5	23.3	56.4	95.6	138.6	181.5	224.4	263.6
92.5°	72.3	38.0	11.0	1.2	14.7	45.4	82.2	122.6	164.3	206.0	244.0
95°	60.1	29.4	7.4	1.2	11.0	35.6	69.9	109.1	148.4	188.8	226.8
97.5°	51.5	24.5	6.1	1.2	8.6	30.7	60.1	96.9	134.9	172.9	209.7
100°	44.1	19.6	4.9	1.2	7.4	25.7	52.7	85.8	121.4	158.2	193.7
102.5°	38.0	15.9	3.7	1.2	6.1	22.1	46.6	77.2	109.1	144.7	179.0
105°	33.1	13.5	3.7	1.2	4.9	19.6	41.7	68.7	100.5	132.4	165.5
107.5°	28.2	11.0	2.5	1.2	3.7	15.9	36.8	62.5	90.7	121.4	152.0
110°	24.5	9.8	2.5	1.2	3.7	14.7	31.9	56.4	82.2	110.4	139.8

TEST NUMBER: P1214171

CATALOG NUMBER: 4SNLED-LD5-55HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	20.8	7.4	2.5	1.2	2.5	12.3	28.2	50.3	74.8	100.5	128.7
115°	18.4	6.1	1.2	1.2	2.5	11.0	25.7	45.4	67.4	92.0	117.7
117.5°	14.7	4.9	1.2	1.2	1.2	8.6	22.1	40.5	61.3	84.6	107.9
120°	12.3	4.9	1.2	1.2	1.2	7.4	19.6	35.6	55.2	76.0	98.1
122.5°	11.0	3.7	1.2	1.2	1.2	6.1	17.2	31.9	49.0	68.7	89.5
125°	9.8	3.7	1.2	1.2	1.2	4.9	14.7	28.2	44.1	61.3	80.9
127.5°	7.4	3.7	1.2	1.2	1.2	3.7	13.5	24.5	39.2	55.2	72.3
130°	6.1	2.5	1.2	1.2	1.2	3.7	11.0	22.1	34.3	49.0	65.0
132.5°	4.9	2.5	1.2	1.2	1.2	2.5	8.6	17.2	29.4	42.9	57.6
135°	4.9	2.5	1.2	1.2	1.2	2.5	6.1	14.7	24.5	36.8	49.0
137.5°	4.9	1.2	1.2	1.2	1.2	2.5	4.9	11.0	19.6	29.4	40.5
140°	3.7	1.2	1.2	1.2	1.2	1.2	3.7	8.6	15.9	24.5	34.3
142.5°	3.7	1.2	1.2	1.2	1.2	1.2	3.7	6.1	12.3	19.6	27.0
145°	2.5	1.2	1.2	1.2	1.2	1.2	2.5	4.9	9.8	14.7	22.1
147.5°	2.5	1.2	1.2	1.2	1.2	1.2	2.5	3.7	7.4	12.3	17.2
150°	2.5	1.2	1.2	1.2	1.2	1.2	2.5	3.7	4.9	8.6	13.5
152.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	3.7	6.1	8.6
155°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	3.7	4.9	6.1
157.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	3.7	4.9
160°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	3.7
162.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5
165°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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: P1214171

CATALOG NUMBER: 4SNLED-LD5-55HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4
2.5°	1166.0	1157.5	1159.9	1158.7	1161.1	1164.8	1164.8	1163.6	1163.6	1161.1	1158.7
5°	1163.6	1155.0	1158.7	1157.5	1159.9	1163.6	1163.6	1162.4	1162.4	1158.7	1157.5
7.5°	1156.2	1150.1	1152.6	1152.6	1155.0	1158.7	1158.7	1157.5	1157.5	1153.8	1152.6
10°	1148.9	1141.5	1145.2	1145.2	1147.6	1152.6	1152.6	1151.3	1151.3	1147.6	1146.4
12.5°	1136.6	1129.3	1135.4	1136.6	1139.1	1144.0	1142.7	1142.7	1142.7	1139.1	1137.8
15°	1121.9	1117.0	1123.1	1124.4	1128.0	1134.2	1134.2	1134.2	1134.2	1130.5	1129.3
17.5°	1106.0	1102.3	1108.4	1110.9	1115.8	1121.9	1121.9	1123.1	1124.4	1121.9	1120.7
20°	1087.6	1085.1	1091.2	1096.2	1103.5	1109.6	1112.1	1113.3	1115.8	1113.3	1112.1
22.5°	1066.7	1066.7	1075.3	1080.2	1088.8	1094.9	1098.6	1102.3	1104.7	1102.3	1101.1
25°	1043.4	1047.1	1055.7	1064.3	1074.1	1080.2	1083.9	1088.8	1091.2	1090.0	1088.8
27.5°	1021.4	1026.3	1037.3	1045.9	1054.5	1064.3	1068.0	1074.1	1076.5	1076.5	1075.3
30°	995.6	1003.0	1015.2	1025.0	1036.1	1045.9	1050.8	1056.9	1060.6	1058.1	1059.4
32.5°	971.1	983.3	993.2	1004.2	1016.5	1026.3	1032.4	1039.7	1043.4	1042.2	1043.4
35°	944.1	956.4	969.9	980.9	995.6	1005.4	1014.0	1020.1	1025.0	1023.8	1023.8
37.5°	914.7	930.6	944.1	958.8	972.3	983.3	991.9	999.3	1004.2	1004.2	1004.2
40°	886.5	903.7	917.1	934.3	951.5	961.3	971.1	978.4	983.3	984.6	985.8
42.5°	855.8	874.2	890.2	908.6	925.7	938.0	949.0	957.6	962.5	965.0	963.7
45°	827.6	844.8	863.2	884.0	900.0	912.2	925.7	935.5	940.4	941.7	942.9
47.5°	795.8	815.4	836.2	857.1	873.0	888.9	901.2	911.0	915.9	919.6	919.6
50°	765.1	785.9	809.2	831.3	848.5	864.4	876.7	887.7	893.8	896.3	897.5
52.5°	736.9	756.5	781.0	803.1	820.3	836.2	852.2	864.4	870.5	873.0	873.0
55°	702.6	727.1	754.1	774.9	793.3	811.7	827.6	839.9	846.0	849.7	852.2
57.5°	670.7	696.4	724.6	746.7	768.8	785.9	800.7	816.6	821.5	826.4	827.6
60°	640.0	665.8	692.8	717.3	739.4	757.7	774.9	788.4	797.0	799.4	801.9
62.5°	608.2	635.1	663.3	687.9	711.1	733.2	749.2	761.4	771.2	774.9	777.4
65°	577.5	605.7	633.9	659.7	684.2	706.2	722.2	734.4	744.3	750.4	751.6
67.5°	544.4	575.1	604.5	631.5	656.0	679.3	695.2	707.5	717.3	724.6	725.9
70°	513.7	545.6	575.1	604.5	629.0	652.3	669.5	681.7	692.8	697.7	700.1
72.5°	484.3	517.4	548.1	577.5	602.0	625.3	643.7	656.0	667.0	673.1	674.4
75°	456.1	489.2	522.3	550.5	576.3	599.6	618.0	631.5	641.3	647.4	649.8
77.5°	427.9	462.2	495.4	523.6	550.5	573.8	589.8	605.7	615.5	622.9	622.9
80°	399.7	435.3	469.6	497.8	524.8	545.6	564.0	580.0	589.8	597.1	597.1
82.5°	375.2	409.5	442.6	470.8	497.8	521.1	539.5	554.2	565.2	570.1	571.4
85°	347.0	385.0	415.7	446.3	472.1	494.1	512.5	528.5	538.3	543.2	545.6
87.5°	323.7	360.5	393.6	420.6	446.3	468.4	489.2	502.7	512.5	518.6	521.1
90°	301.6	337.2	370.3	397.3	424.2	445.1	464.7	478.2	489.2	494.1	496.6
92.5°	282.0	317.6	349.4	376.4	402.2	425.5	443.9	457.3	467.2	472.1	475.7
95°	263.6	297.9	328.6	358.0	382.5	403.4	423.0	436.5	447.5	451.2	454.9
97.5°	245.2	278.3	309.0	337.2	362.9	382.5	400.9	414.4	423.0	429.1	432.8
100°	229.3	261.2	290.6	317.6	342.1	360.5	380.1	392.4	400.9	405.8	410.8
102.5°	212.1	244.0	272.2	297.9	323.7	340.9	359.3	371.5	378.9	387.5	387.5
105°	197.4	226.8	255.0	279.6	301.6	322.5	338.4	350.7	359.3	365.4	365.4
107.5°	181.5	210.9	237.9	263.6	284.5	304.1	318.8	329.8	339.6	343.3	347.0
110°	169.2	195.0	221.9	246.5	266.1	284.5	299.2	311.4	320.0	323.7	326.1

TEST NUMBER: P1214171

CATALOG NUMBER: 4SNLED-LD5-55HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	154.5	181.5	206.0	229.3	248.9	266.1	280.8	290.6	299.2	304.1	305.3
115°	142.2	168.0	190.0	212.1	233.0	247.7	261.2	271.0	279.6	283.2	285.7
117.5°	131.2	154.5	176.6	195.0	214.6	230.5	244.0	252.6	259.9	264.8	267.3
120°	120.2	142.2	161.8	180.2	198.6	213.3	225.6	234.2	242.8	246.5	246.5
122.5°	109.1	130.0	148.4	165.5	182.7	196.2	209.7	217.0	224.4	228.1	228.1
125°	99.3	118.9	136.1	152.0	168.0	180.2	191.3	199.9	207.2	209.7	209.7
127.5°	89.5	107.9	123.8	138.6	152.0	164.3	175.3	183.9	190.0	192.5	192.5
130°	80.9	96.9	111.6	126.3	139.8	149.6	160.6	168.0	171.7	175.3	176.6
132.5°	72.3	87.1	100.5	112.8	126.3	136.1	144.7	152.0	155.7	159.4	160.6
135°	63.8	77.2	89.5	101.8	112.8	122.6	130.0	136.1	141.0	143.5	144.7
137.5°	53.9	68.7	79.7	89.5	101.8	109.1	117.7	121.4	126.3	128.7	128.7
140°	45.4	56.4	68.7	78.5	88.3	95.6	103.0	109.1	112.8	114.0	114.0
142.5°	36.8	46.6	56.4	68.7	77.2	83.4	90.7	95.6	98.1	99.3	100.5
145°	29.4	36.8	45.4	56.4	66.2	73.6	77.2	82.2	84.6	85.8	87.1
147.5°	22.1	29.4	36.8	44.1	53.9	61.3	65.0	69.9	72.3	73.6	73.6
150°	17.2	22.1	27.0	34.3	41.7	50.3	55.2	58.9	60.1	61.3	61.3
152.5°	12.3	17.2	20.8	25.7	30.7	38.0	45.4	47.8	49.0	50.3	50.3
155°	8.6	12.3	14.7	18.4	22.1	28.2	34.3	38.0	39.2	40.5	40.5
157.5°	6.1	8.6	9.8	13.5	15.9	18.4	23.3	29.4	30.7	30.7	30.7
160°	3.7	4.9	6.1	8.6	9.8	12.3	14.7	18.4	22.1	22.1	22.1
162.5°	2.5	3.7	3.7	4.9	4.9	7.4	8.6	9.8	13.5	14.7	14.7
165°	1.2	2.5	2.5	2.5	2.5	2.5	3.7	3.7	6.1	7.4	7.4
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: P1214171

CATALOG NUMBER: 4SNLED-LD5-55HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4
2.5°	1159.9	1162.4	1161.1	1161.1	1161.1	1163.6	1161.1	1150.1	1152.6	1155.0	1157.5
5°	1158.7	1159.9	1159.9	1158.7	1158.7	1161.1	1158.7	1147.6	1150.1	1152.6	1153.8
7.5°	1153.8	1155.0	1155.0	1155.0	1153.8	1156.2	1152.6	1142.7	1142.7	1145.2	1146.4
10°	1147.6	1150.1	1148.9	1147.6	1147.6	1147.6	1145.2	1134.2	1134.2	1135.4	1136.6
12.5°	1140.3	1140.3	1140.3	1139.1	1137.8	1137.8	1135.4	1124.4	1123.1	1125.6	1124.4
15°	1130.5	1132.9	1130.5	1129.3	1126.8	1126.8	1123.1	1112.1	1109.6	1110.9	1109.6
17.5°	1121.9	1123.1	1120.7	1118.2	1115.8	1114.5	1110.9	1098.6	1094.9	1096.2	1093.7
20°	1113.3	1113.3	1110.9	1108.4	1104.7	1101.1	1096.2	1083.9	1077.8	1077.8	1072.9
22.5°	1102.3	1102.3	1099.8	1096.2	1092.5	1087.6	1082.7	1070.4	1060.6	1058.1	1054.5
25°	1090.0	1088.8	1087.6	1083.9	1076.5	1071.6	1066.7	1053.2	1042.2	1037.3	1031.2
27.5°	1075.3	1075.3	1071.6	1068.0	1060.6	1054.5	1048.3	1036.1	1021.4	1015.2	1006.6
30°	1059.4	1059.4	1055.7	1050.8	1043.4	1036.1	1028.7	1014.0	999.3	990.7	980.9
32.5°	1043.4	1042.2	1038.5	1033.6	1026.3	1015.2	1009.1	994.4	977.2	967.4	953.9
35°	1023.8	1022.6	1018.9	1012.8	1003.0	994.4	984.6	971.1	951.5	939.2	924.5
37.5°	1004.2	1003.0	1000.5	991.9	982.1	972.3	960.1	946.6	928.2	912.2	897.5
40°	984.6	983.3	978.4	972.3	960.1	947.8	935.5	922.0	902.4	884.0	868.1
42.5°	963.7	962.5	956.4	949.0	935.5	923.3	908.6	893.8	874.2	852.2	836.2
45°	942.9	940.4	934.3	925.7	911.0	897.5	882.8	865.6	846.0	825.2	804.3
47.5°	920.8	917.1	911.0	898.7	886.5	871.8	854.6	836.2	816.6	793.3	771.2
50°	896.3	893.8	886.5	875.4	860.7	846.0	826.4	808.0	784.7	762.6	735.7
52.5°	873.0	868.1	862.0	849.7	835.0	819.0	798.2	776.1	752.8	732.0	703.8
55°	848.5	846.0	837.4	827.6	809.2	790.8	771.2	747.9	722.2	697.7	670.7
57.5°	825.2	820.3	812.9	799.4	783.5	765.1	744.3	719.7	691.5	665.8	636.4
60°	801.9	794.5	785.9	773.7	756.5	736.9	714.8	689.1	660.9	632.7	602.0
62.5°	776.1	770.0	760.2	747.9	730.8	709.9	686.6	659.7	632.7	603.3	570.1
65°	750.4	744.3	734.4	722.2	705.0	681.7	657.2	630.2	599.6	571.4	535.8
67.5°	724.6	718.5	707.5	694.0	676.8	654.7	629.0	600.8	570.1	539.5	502.7
70°	698.9	691.5	681.7	667.0	649.8	626.5	600.8	571.4	540.7	507.6	470.8
72.5°	673.1	667.0	654.7	641.3	622.9	599.6	573.8	544.4	512.5	478.2	441.4
75°	647.4	640.0	631.5	615.5	595.9	573.8	546.8	517.4	483.1	450.0	412.0
77.5°	621.6	615.5	604.5	588.5	570.1	546.8	519.9	490.4	456.1	421.8	381.3
80°	595.9	588.5	580.0	565.2	544.4	521.1	492.9	463.5	429.1	393.6	353.1
82.5°	570.1	562.8	553.0	538.3	518.6	495.4	468.4	436.5	402.2	365.4	327.4
85°	544.4	538.3	527.2	512.5	491.7	468.4	441.4	413.2	376.4	339.6	301.6
87.5°	518.6	512.5	501.5	486.8	467.2	443.9	416.9	387.5	351.9	317.6	275.9
90°	494.1	489.2	478.2	463.5	443.9	420.6	396.0	364.2	329.8	295.5	256.3
92.5°	472.1	467.2	457.3	442.6	425.5	399.7	375.2	344.5	310.2	274.7	236.6
95°	452.4	446.3	436.5	423.0	402.2	380.1	355.6	324.9	291.8	256.3	219.5
97.5°	430.4	424.2	414.4	399.7	382.5	359.3	334.7	305.3	272.2	239.1	202.3
100°	408.3	402.2	391.1	378.9	361.7	338.4	315.1	285.7	255.0	223.2	187.6
102.5°	386.2	380.1	370.3	358.0	340.9	320.0	296.7	268.5	237.9	206.0	172.9
105°	365.4	359.3	349.4	337.2	321.2	300.4	275.9	251.4	221.9	191.3	159.4
107.5°	344.5	338.4	329.8	317.6	301.6	282.0	258.7	233.0	206.0	176.6	145.9
110°	323.7	318.8	309.0	297.9	282.0	262.4	241.5	217.0	190.0	163.1	133.6

TEST NUMBER: P1214171

CATALOG NUMBER: 4SNLED-LD5-55HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	304.1	299.2	289.4	277.1	263.6	245.2	224.4	201.1	175.3	149.6	121.4
115°	284.5	278.3	269.7	258.7	245.2	228.1	208.4	187.6	161.8	137.3	111.6
117.5°	264.8	259.9	251.4	240.3	228.1	210.9	192.5	172.9	148.4	125.1	101.8
120°	245.2	241.5	233.0	223.2	210.9	195.0	177.8	158.2	136.1	114.0	92.0
122.5°	226.8	223.2	214.6	206.0	193.7	179.0	163.1	144.7	125.1	104.2	84.6
125°	209.7	204.8	197.4	188.8	177.8	164.3	148.4	131.2	112.8	94.4	76.0
127.5°	191.3	187.6	182.7	172.9	161.8	149.6	134.9	120.2	103.0	85.8	68.7
130°	176.6	171.7	165.5	158.2	148.4	136.1	122.6	107.9	93.2	77.2	60.1
132.5°	159.4	154.5	149.6	142.2	133.6	122.6	110.4	96.9	83.4	68.7	53.9
135°	143.5	139.8	134.9	127.5	118.9	110.4	98.1	85.8	73.6	60.1	47.8
137.5°	128.7	125.1	120.2	115.3	106.7	98.1	87.1	76.0	65.0	52.7	41.7
140°	114.0	111.6	106.7	101.8	94.4	85.8	76.0	66.2	56.4	45.4	35.6
142.5°	99.3	96.9	93.2	88.3	82.2	74.8	66.2	57.6	47.8	39.2	30.7
145°	85.8	84.6	80.9	76.0	71.1	63.8	56.4	49.0	40.5	33.1	24.5
147.5°	72.3	71.1	68.7	65.0	60.1	53.9	47.8	40.5	34.3	27.0	19.6
150°	60.1	58.9	57.6	52.7	50.3	44.1	39.2	33.1	28.2	20.8	15.9
152.5°	49.0	49.0	46.6	42.9	40.5	35.6	31.9	27.0	22.1	17.2	12.3
155°	39.2	38.0	36.8	34.3	31.9	28.2	24.5	20.8	17.2	12.3	8.6
157.5°	30.7	29.4	28.2	25.7	23.3	22.1	18.4	14.7	11.0	8.6	6.1
160°	22.1	20.8	19.6	18.4	17.2	14.7	12.3	9.8	7.4	4.9	3.7
162.5°	14.7	13.5	13.5	12.3	11.0	8.6	7.4	6.1	4.9	3.7	2.5
165°	7.4	7.4	6.1	6.1	4.9	3.7	3.7	3.7	2.5	2.5	1.2
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: P1214171

CATALOG NUMBER: 4SNLED-LD5-55HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4	1162.4
2.5°	1156.2	1156.2	1161.1	1159.9	1156.2	1163.6	1172.2
5°	1152.6	1152.6	1156.2	1156.2	1152.6	1159.9	1167.3
7.5°	1146.4	1145.2	1148.9	1148.9	1144.0	1150.1	1158.7
10°	1135.4	1134.2	1137.8	1137.8	1132.9	1139.1	1146.4
12.5°	1123.1	1120.7	1124.4	1123.1	1118.2	1124.4	1131.7
15°	1107.2	1106.0	1108.4	1106.0	1101.1	1107.2	1114.5
17.5°	1091.2	1087.6	1088.8	1088.8	1080.2	1086.3	1092.5
20°	1070.4	1065.5	1066.7	1065.5	1059.4	1063.0	1070.4
22.5°	1049.6	1042.2	1042.2	1041.0	1033.6	1038.5	1044.7
25°	1023.8	1015.2	1015.2	1014.0	1005.4	1009.1	1015.2
27.5°	998.1	989.5	985.8	984.6	976.0	976.0	984.6
30°	971.1	958.8	956.4	952.7	944.1	944.1	951.5
32.5°	945.3	928.2	923.3	918.4	909.8	908.6	917.1
35°	911.0	897.5	888.9	884.0	874.2	871.8	879.1
37.5°	882.8	865.6	853.4	847.2	837.4	833.8	843.6
40°	852.2	833.8	817.8	814.1	799.4	794.5	803.1
42.5°	817.8	798.2	782.3	774.9	763.9	759.0	760.2
45°	783.5	762.6	745.5	735.7	724.6	716.1	721.0
47.5°	747.9	729.5	708.7	694.0	680.5	674.4	676.8
50°	712.4	690.3	670.7	654.7	638.8	631.5	636.4
52.5°	676.8	653.5	631.5	614.3	595.9	588.5	589.8
55°	642.5	618.0	592.2	573.8	556.7	545.6	543.2
57.5°	608.2	581.2	554.2	533.4	511.3	501.5	497.8
60°	571.4	543.2	515.0	490.4	467.2	456.1	451.2
62.5°	537.0	506.4	474.5	448.8	425.5	410.8	407.1
65°	503.9	468.4	436.5	407.1	381.3	365.4	360.5
67.5°	468.4	431.6	397.3	365.4	340.9	320.0	317.6
70°	435.3	396.0	358.0	324.9	297.9	277.1	267.3
72.5°	402.2	361.7	322.5	286.9	252.6	233.0	225.6
75°	370.3	328.6	286.9	250.1	212.1	188.8	181.5
77.5°	340.9	297.9	253.8	213.3	177.8	148.4	138.6
80°	312.7	268.5	221.9	180.2	142.2	110.4	99.3
82.5°	283.2	241.5	193.7	149.6	110.4	77.2	63.8
85°	257.5	215.8	168.0	123.8	84.6	49.0	34.3
87.5°	236.6	191.3	148.4	104.2	63.8	28.2	9.8
90°	215.8	171.7	128.7	85.8	47.8	15.9	1.2
92.5°	197.4	155.7	112.8	73.6	36.8	11.0	1.2
95°	180.2	139.8	99.3	61.3	29.4	7.4	1.2
97.5°	164.3	126.3	88.3	52.7	24.5	6.1	1.2
100°	150.8	114.0	78.5	46.6	20.8	4.9	1.2
102.5°	137.3	103.0	69.9	40.5	18.4	3.7	1.2
105°	126.3	93.2	62.5	36.8	15.9	3.7	1.2
107.5°	115.3	84.6	56.4	31.9	13.5	2.5	1.2
110°	104.2	77.2	50.3	28.2	12.3	2.5	1.2



TEST NUMBER: P1214171

CATALOG NUMBER: 4SNLED-LD5-55HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	95.6	69.9	45.4	25.7	9.8	2.5	1.2
115°	87.1	62.5	40.5	22.1	8.6	1.2	1.2
117.5°	78.5	56.4	35.6	19.6	7.4	1.2	1.2
120°	71.1	50.3	31.9	17.2	6.1	1.2	1.2
122.5°	63.8	45.4	28.2	14.7	4.9	1.2	1.2
125°	57.6	40.5	24.5	12.3	3.7	1.2	1.2
127.5°	51.5	35.6	22.1	11.0	3.7	1.2	1.2
130°	45.4	31.9	18.4	8.6	2.5	1.2	1.2
132.5°	40.5	27.0	15.9	7.4	2.5	1.2	1.2
135°	35.6	23.3	13.5	4.9	2.5	1.2	1.2
137.5°	30.7	19.6	11.0	3.7	1.2	1.2	1.2
140°	25.7	17.2	8.6	3.7	1.2	1.2	1.2
142.5°	22.1	13.5	6.1	2.5	1.2	1.2	1.2
145°	17.2	11.0	4.9	2.5	1.2	1.2	1.2
147.5°	13.5	8.6	3.7	2.5	1.2	1.2	1.2
150°	9.8	6.1	3.7	1.2	1.2	1.2	1.2
152.5°	7.4	4.9	2.5	1.2	1.2	1.2	1.2
155°	4.9	3.7	2.5	1.2	1.2	1.2	1.2
157.5°	3.7	2.5	1.2	1.2	1.2	1.2	1.2
160°	2.5	1.2	1.2	1.2	1.2	1.2	1.2
162.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2
165°	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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)