

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: P1214178

Luminaire Tested: 4SNLED-LD5-56SL-LW-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214178
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-LD5-56SL-LW-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

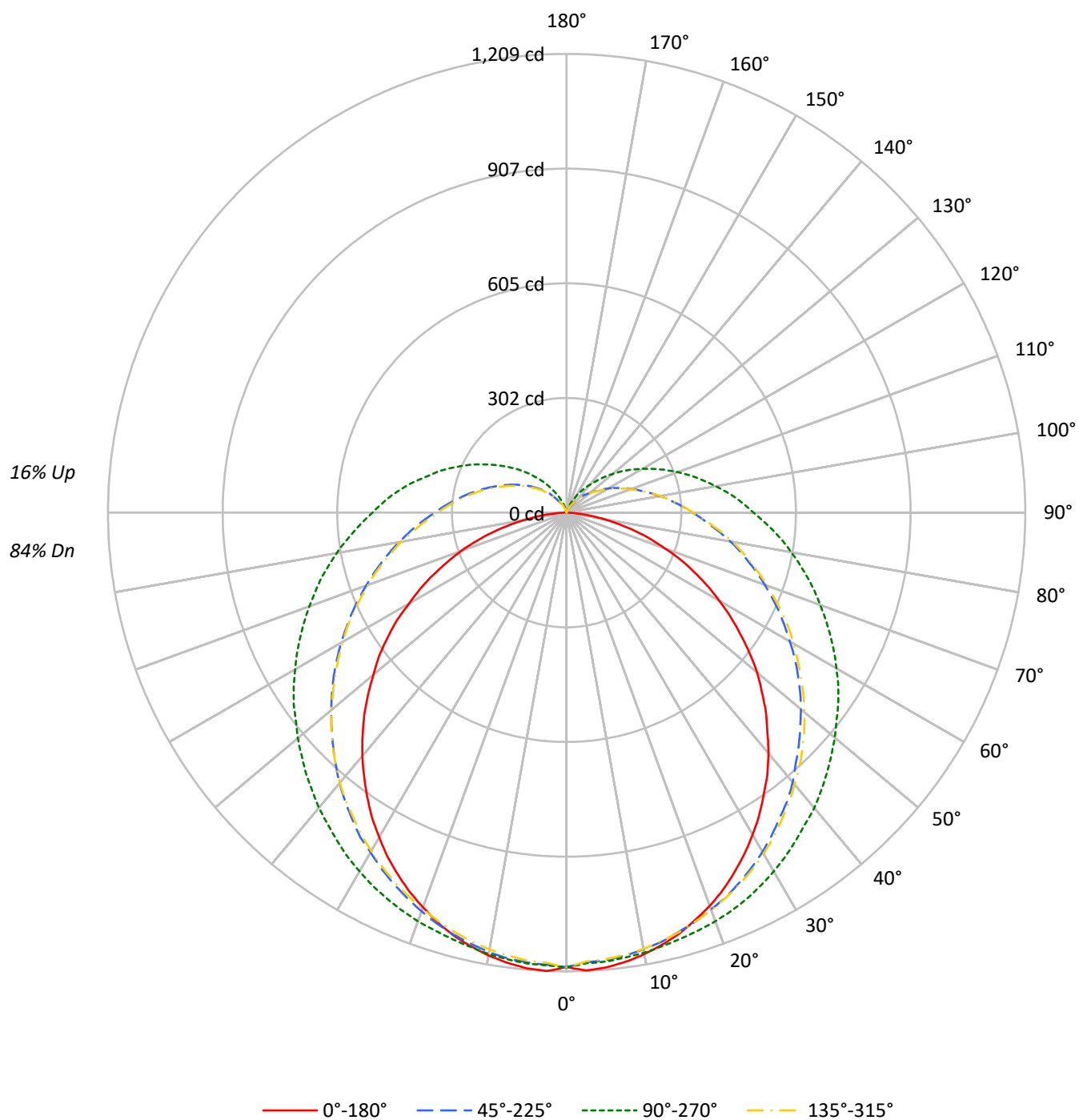
Lumens per Lamp: N/A
Luminaire Lumens: 5204.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



TEST NUMBER: P1214178

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9679	9679	9679	9679
5°	9731	9328	9751	9368
10°	9641	9063	9672	9092
15°	9529	8836	9571	8846
20°	9379	8671	9411	8671
25°	9194	8524	9250	8514
30°	8987	8372	9057	8372
35°	8745	8232	8843	8241
40°	8507	8150	8611	8150
45°	8233	8063	8359	8073
50°	7949	8012	8055	8034
55°	7549	8019	7787	8054
60°	7129	8044	7361	8093
65°	6657	8125	6951	8205
70°	5992	8275	6460	8392
75°	5229	8544	5724	8709
80°	4044	8945	4593	9152
85°	2418	9588	3020	9855

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 11016 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	2.2
10°-20°	326.1	6.3
20°-30°	500.0	9.6
30°-40°	616.8	11.9
40°-50°	669.2	12.9
50°-60°	659.6	12.7
60°-70°	596.4	11.5
70°-80°	496.8	9.5
80°-90°	384.8	7.4
90°-100°	291.8	5.6
100°-110°	216.0	4.1
110°-120°	150.2	2.9
120°-130°	95.9	1.8
130°-140°	53.8	1.0
140°-150°	24.6	0.5
150°-160°	7.6	0.1
160°-170°	1.0	0.0
170°-180°	0.0	0.0
0°-30°	939.6	18.1
0°-40°	1556.4	29.9
0°-60°	2885.2	55.4
0°-90°	4363.2	83.8
90°-120°	658.0	12.6
90°-150°	832.2	16.0
90°-180°	841.0	16.2
0°-180°	5204.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1198	1198	1198	1198	1198	
5°	1203	1188	1205	1193	1203	114
15°	1148	1162	1154	1164	1148	324
25°	1046	1123	1052	1122	1046	482
35°	906	1054	916	1055	906	567
45°	743	970	754	972	743	572
55°	560	874	577	878	560	501
65°	372	767	388	774	372	368
75°	187	657	205	670	187	198
85°	35	547	44	562	35	43
90°	1	493	2	512	1	2
95°	1	447	1	469	1	1
105°	1	355	1	376	1	1
115°	1	270	1	294	1	1
125°	1	195	1	216	1	1
135°	1	126	1	149	1	1
145°	1	73	1	90	1	1
155°	1	30	1	42	1	1
165°	1	5	1	8	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°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1207.9	1207.9	1206.7	1204.1	1205.4	1209.2	1206.7	1200.3	1196.5	1186.4	1189.0
5°	1202.9	1202.9	1201.6	1199.1	1200.3	1205.4	1202.9	1197.8	1192.8	1183.9	1187.7
7.5°	1194.0	1194.0	1192.8	1190.2	1192.8	1197.8	1195.3	1190.2	1186.4	1177.6	1181.4
10°	1181.4	1182.6	1181.4	1177.6	1182.6	1187.7	1186.4	1180.1	1176.3	1168.7	1172.5
12.5°	1166.2	1167.5	1166.2	1165.0	1167.5	1175.1	1172.5	1167.5	1165.0	1158.6	1162.4
15°	1148.5	1149.8	1147.3	1147.3	1149.8	1157.4	1157.4	1152.3	1149.8	1143.5	1151.1
17.5°	1125.8	1127.1	1125.8	1125.8	1128.3	1135.9	1137.2	1134.6	1132.1	1129.6	1137.2
20°	1103.0	1101.8	1101.8	1100.5	1105.6	1116.9	1115.7	1115.7	1113.2	1113.2	1122.0
22.5°	1076.5	1076.5	1075.2	1075.2	1081.6	1091.7	1091.7	1094.2	1091.7	1096.7	1104.3
25°	1046.2	1047.5	1046.2	1048.7	1053.8	1065.1	1066.4	1070.2	1071.5	1076.5	1085.4
27.5°	1014.6	1015.9	1014.6	1017.1	1026.0	1034.8	1041.1	1046.2	1047.5	1055.0	1066.4
30°	980.5	980.5	981.7	984.3	994.4	1008.3	1013.3	1019.7	1019.7	1032.3	1043.7
32.5°	945.1	945.1	945.1	950.2	961.5	978.0	984.3	991.9	994.4	1007.0	1019.7
35°	905.9	907.2	907.2	911.0	926.2	942.6	951.4	960.3	965.3	980.5	993.1
37.5°	869.3	871.8	868.0	873.1	894.6	908.5	918.6	927.4	936.3	956.5	966.6
40°	827.6	830.1	828.9	839.0	856.7	874.3	885.7	894.6	907.2	927.4	938.8
42.5°	783.4	785.9	788.4	799.8	818.8	836.4	850.3	861.7	876.9	894.6	913.5
45°	742.9	742.9	746.7	760.6	780.8	799.8	816.2	828.9	846.6	865.5	884.5
47.5°	697.5	698.7	703.8	720.2	741.7	764.4	779.6	796.0	815.0	835.2	856.7
50°	655.8	655.8	663.3	681.0	701.2	726.5	742.9	761.9	782.1	806.1	827.6
52.5°	607.7	610.3	621.6	638.1	664.6	687.3	706.3	726.5	750.5	775.8	799.8
55°	559.7	564.8	573.6	596.4	624.2	645.7	668.4	693.7	716.4	744.2	772.0
57.5°	513.0	516.8	530.7	553.4	582.5	609.0	633.0	657.0	684.8	712.6	741.7
60°	465.0	470.0	486.5	509.2	540.8	568.6	596.4	621.6	650.7	679.8	710.1
62.5°	419.5	423.3	442.2	468.8	500.4	530.7	558.5	588.8	620.4	648.2	678.5
65°	371.5	377.8	399.3	423.3	459.9	490.2	521.8	554.7	587.5	617.9	646.9
67.5°	327.2	331.0	353.8	381.6	418.2	452.3	485.2	520.6	554.7	586.3	615.3
70°	275.4	288.1	310.8	339.9	379.1	414.4	449.8	486.5	523.1	555.9	583.7
72.5°	232.5	242.6	267.9	299.5	337.4	379.1	415.7	454.9	491.5	525.6	554.7
75°	187.0	197.1	226.2	261.5	300.7	344.9	382.8	423.3	461.2	495.3	525.6
77.5°	142.8	155.4	187.0	223.6	266.6	312.1	351.3	391.7	430.9	467.5	497.8
80°	102.3	116.2	150.4	192.1	233.7	279.2	322.2	362.6	401.8	438.4	470.0
82.5°	65.7	80.9	117.5	159.2	203.4	248.9	293.1	333.6	372.7	409.4	442.2
85°	35.4	51.8	89.7	131.4	175.6	221.1	265.3	308.3	346.2	380.3	415.7
87.5°	10.1	30.3	67.0	108.7	154.1	195.8	238.8	281.8	319.7	356.3	387.9
90°	1.3	17.7	50.5	89.7	133.9	174.4	217.3	257.8	295.7	332.3	363.9
92.5°	1.3	11.4	39.2	74.5	115.0	156.7	199.6	238.8	274.2	310.8	342.4
95°	1.3	8.8	31.6	63.2	101.1	140.2	180.7	218.6	255.2	289.3	320.9
97.5°	1.3	6.3	25.3	54.3	88.4	125.1	164.3	202.2	237.5	270.4	299.5
100°	1.3	5.1	20.2	46.7	77.1	112.5	147.8	184.5	218.6	250.2	280.5
102.5°	1.3	3.8	17.7	39.2	68.2	99.8	133.9	168.0	200.9	231.2	261.5
105°	1.3	3.8	15.2	34.1	60.6	89.7	121.3	154.1	184.5	213.5	241.3
107.5°	1.3	2.5	12.6	29.1	53.1	80.9	109.9	141.5	169.3	197.1	223.6
110°	1.3	2.5	10.1	26.5	46.7	72.0	99.8	128.9	155.4	181.9	207.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.3	2.5	8.8	22.7	40.4	64.4	89.7	116.2	141.5	168.0	190.8
115°	1.3	2.5	7.6	20.2	37.9	55.6	80.9	104.9	130.1	154.1	175.6
117.5°	1.3	2.5	6.3	16.4	32.9	50.5	70.8	94.8	117.5	140.2	160.5
120°	1.3	2.5	5.1	15.2	29.1	45.5	63.2	84.7	106.1	127.6	149.1
122.5°	1.3	1.3	5.1	12.6	25.3	40.4	58.1	74.5	94.8	115.0	133.9
125°	1.3	1.3	5.1	11.4	21.5	36.6	51.8	67.0	84.7	102.3	118.8
127.5°	1.3	1.3	3.8	8.8	19.0	31.6	45.5	61.9	74.5	91.0	107.4
130°	1.3	1.3	3.8	7.6	16.4	26.5	40.4	54.3	69.5	80.9	94.8
132.5°	1.3	1.3	3.8	6.3	12.6	21.5	34.1	46.7	60.6	73.3	84.7
135°	1.3	1.3	2.5	5.1	10.1	17.7	27.8	39.2	53.1	65.7	77.1
137.5°	1.3	1.3	2.5	5.1	7.6	15.2	21.5	31.6	44.2	55.6	67.0
140°	1.3	1.3	2.5	3.8	6.3	11.4	17.7	25.3	35.4	45.5	58.1
142.5°	1.3	1.3	1.3	3.8	5.1	8.8	13.9	20.2	27.8	36.6	46.7
145°	1.3	1.3	1.3	3.8	5.1	6.3	11.4	16.4	21.5	27.8	36.6
147.5°	1.3	1.3	1.3	2.5	3.8	5.1	8.8	12.6	16.4	21.5	26.5
150°	1.3	1.3	1.3	2.5	3.8	5.1	6.3	8.8	12.6	17.7	21.5
152.5°	1.3	1.3	1.3	2.5	2.5	3.8	5.1	6.3	8.8	12.6	15.2
155°	1.3	1.3	1.3	1.3	2.5	3.8	5.1	5.1	6.3	8.8	11.4
157.5°	1.3	1.3	1.3	1.3	2.5	2.5	3.8	3.8	5.1	5.1	7.6
160°	1.3	1.3	1.3	1.3	1.3	2.5	2.5	3.8	3.8	3.8	3.8
162.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.5	2.5	2.5	3.8	3.8
165°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	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°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1189.0	1190.2	1194.0	1194.0	1191.5	1191.5	1190.2	1189.0	1190.2	1192.8	1192.8
5°	1186.4	1187.7	1191.5	1192.8	1190.2	1189.0	1189.0	1187.7	1189.0	1191.5	1191.5
7.5°	1181.4	1182.6	1186.4	1187.7	1185.2	1185.2	1183.9	1182.6	1185.2	1186.4	1186.4
10°	1173.8	1175.1	1180.1	1181.4	1180.1	1178.9	1178.9	1177.6	1178.9	1181.4	1181.4
12.5°	1163.7	1166.2	1172.5	1172.5	1172.5	1171.3	1171.3	1170.0	1171.3	1173.8	1172.5
15°	1152.3	1157.4	1162.4	1165.0	1165.0	1165.0	1163.7	1162.4	1165.0	1166.2	1165.0
17.5°	1139.7	1146.0	1153.6	1156.1	1156.1	1157.4	1156.1	1154.8	1157.4	1157.4	1156.1
20°	1127.1	1133.4	1141.0	1143.5	1146.0	1147.3	1147.3	1146.0	1147.3	1148.5	1147.3
22.5°	1110.6	1118.2	1127.1	1130.8	1133.4	1135.9	1135.9	1135.9	1137.2	1138.4	1135.9
25°	1092.9	1101.8	1111.9	1115.7	1120.7	1122.0	1123.3	1123.3	1124.5	1125.8	1122.0
27.5°	1074.0	1084.1	1094.2	1100.5	1104.3	1106.8	1106.8	1108.1	1109.4	1110.6	1106.8
30°	1051.2	1066.4	1075.2	1080.3	1085.4	1089.1	1090.4	1091.7	1092.9	1094.2	1090.4
32.5°	1031.0	1043.7	1055.0	1061.3	1067.7	1072.7	1074.0	1074.0	1076.5	1076.5	1072.7
35°	1007.0	1022.2	1033.6	1039.9	1047.5	1051.2	1053.8	1053.8	1056.3	1056.3	1052.5
37.5°	983.0	998.2	1010.8	1018.4	1027.2	1032.3	1033.6	1033.6	1036.1	1036.1	1031.0
40°	957.7	974.2	988.1	996.9	1004.5	1010.8	1012.1	1015.9	1015.9	1014.6	1009.5
42.5°	932.5	947.6	962.8	972.9	983.0	989.3	991.9	993.1	993.1	991.9	988.1
45°	904.7	922.4	936.3	948.9	959.0	965.3	969.1	970.4	970.4	967.8	964.1
47.5°	878.1	895.8	909.7	923.6	933.7	941.3	945.1	946.4	945.1	943.8	940.1
50°	850.3	870.6	884.5	898.4	908.5	914.8	921.1	922.4	921.1	919.8	912.3
52.5°	821.3	842.8	857.9	871.8	883.2	890.8	895.8	897.1	897.1	894.6	889.5
55°	792.2	811.2	830.1	845.3	857.9	865.5	871.8	874.3	871.8	869.3	863.0
57.5°	765.7	783.4	802.3	818.8	831.4	841.5	846.6	849.1	846.6	842.8	836.4
60°	734.1	753.1	774.5	789.7	803.6	813.7	816.2	821.3	818.8	815.0	808.6
62.5°	703.8	726.5	745.5	764.4	775.8	787.2	792.2	794.7	792.2	788.4	782.1
65°	672.2	697.5	716.4	735.4	748.0	759.4	765.7	767.0	764.4	760.6	754.3
67.5°	643.1	667.1	687.3	707.6	718.9	730.3	736.6	739.2	736.6	731.6	725.3
70°	614.1	638.1	662.1	677.2	691.1	703.8	707.6	711.4	708.8	703.8	696.2
72.5°	585.0	610.3	634.3	649.4	664.6	676.0	681.0	684.8	682.3	677.2	668.4
75°	554.7	581.2	605.2	621.6	636.8	648.2	653.2	657.0	654.5	649.4	639.3
77.5°	526.9	553.4	576.2	593.9	609.0	619.1	628.0	629.2	626.7	621.6	611.5
80°	497.8	524.4	548.4	566.1	581.2	591.3	597.6	601.4	598.9	593.9	583.7
82.5°	472.6	496.6	520.6	538.3	553.4	566.1	571.1	574.9	573.6	566.1	558.5
85°	444.8	472.6	491.5	510.5	525.6	538.3	542.0	547.1	545.8	539.5	529.4
87.5°	417.0	444.8	467.5	486.5	500.4	510.5	516.8	519.3	518.0	511.7	500.4
90°	394.2	419.5	442.2	462.4	473.8	485.2	491.5	492.8	492.8	485.2	476.3
92.5°	372.7	396.7	419.5	438.4	452.3	462.4	467.5	470.0	468.8	462.4	452.3
95°	348.7	375.3	396.7	415.7	429.6	439.7	444.8	447.3	446.0	439.7	429.6
97.5°	328.5	352.5	374.0	391.7	405.6	415.7	420.7	423.3	423.3	417.0	406.9
100°	308.3	332.3	352.5	370.2	382.8	393.0	398.0	399.3	398.0	393.0	382.8
102.5°	288.1	310.8	331.0	347.5	361.4	370.2	375.3	376.5	376.5	370.2	360.1
105°	267.9	290.6	309.6	327.2	338.6	347.5	351.3	355.0	353.8	348.7	338.6
107.5°	248.9	271.7	289.3	305.8	317.1	326.0	329.8	333.6	332.3	327.2	317.1
110°	231.2	252.7	269.1	285.6	295.7	304.5	310.8	312.1	309.6	304.5	295.7

TEST NUMBER: P1214178

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	214.8	233.7	250.2	265.3	276.7	283.0	288.1	290.6	288.1	283.0	276.7
115°	197.1	216.1	232.5	246.4	256.5	264.1	267.9	270.4	267.9	262.8	256.5
117.5°	180.7	198.4	214.8	228.7	237.5	243.9	247.6	250.2	247.6	243.9	237.5
120°	166.8	181.9	197.1	209.7	219.9	224.9	228.7	231.2	230.0	224.9	218.6
122.5°	150.4	166.8	180.7	193.3	202.2	207.2	209.7	212.3	211.0	207.2	200.9
125°	136.5	150.4	164.3	175.6	184.5	189.5	192.1	194.6	193.3	189.5	181.9
127.5°	121.3	136.5	147.8	159.2	165.5	173.1	174.4	176.9	175.6	171.8	165.5
130°	109.9	121.3	132.7	142.8	150.4	155.4	157.9	159.2	156.7	154.1	147.8
132.5°	96.0	108.7	118.8	127.6	132.7	137.7	140.2	141.5	141.5	137.7	132.7
135°	85.9	94.8	103.6	112.5	117.5	122.6	125.1	126.4	125.1	122.6	117.5
137.5°	77.1	84.7	91.0	98.6	104.9	107.4	109.9	109.9	108.7	107.4	103.6
140°	67.0	75.8	82.1	87.2	92.2	93.5	96.0	96.0	94.8	93.5	91.0
142.5°	56.9	64.4	70.8	77.1	80.9	83.4	84.7	85.9	84.7	83.4	79.6
145°	45.5	54.3	60.6	64.4	69.5	70.8	72.0	73.3	72.0	70.8	67.0
147.5°	35.4	43.0	49.3	54.3	58.1	59.4	60.6	61.9	60.6	58.1	56.9
150°	25.3	31.6	39.2	44.2	46.7	49.3	49.3	49.3	50.5	48.0	45.5
152.5°	20.2	22.7	27.8	32.9	36.6	37.9	39.2	39.2	37.9	37.9	35.4
155°	13.9	16.4	20.2	24.0	27.8	29.1	30.3	30.3	29.1	29.1	27.8
157.5°	8.8	11.4	13.9	16.4	20.2	21.5	22.7	22.7	22.7	21.5	20.2
160°	5.1	6.3	7.6	10.1	12.6	13.9	15.2	15.2	15.2	15.2	13.9
162.5°	3.8	3.8	3.8	5.1	6.3	7.6	8.8	8.8	8.8	8.8	7.6
165°	2.5	2.5	2.5	2.5	2.5	3.8	5.1	5.1	5.1	5.1	5.1
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: P1214178

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1191.5	1191.5	1192.8	1190.2	1182.6	1183.9	1183.9	1189.0	1191.5	1192.8	1199.1
5°	1189.0	1189.0	1191.5	1187.7	1181.4	1181.4	1181.4	1186.4	1187.7	1190.2	1195.3
7.5°	1185.2	1185.2	1186.4	1182.6	1175.1	1175.1	1173.8	1178.9	1181.4	1182.6	1187.7
10°	1178.9	1178.9	1180.1	1176.3	1167.5	1167.5	1166.2	1170.0	1171.3	1173.8	1177.6
12.5°	1170.0	1170.0	1170.0	1166.2	1157.4	1156.1	1154.8	1158.6	1158.6	1159.9	1163.7
15°	1162.4	1159.9	1159.9	1156.1	1147.3	1144.7	1142.2	1143.5	1146.0	1144.7	1147.3
17.5°	1153.6	1151.1	1148.5	1144.7	1133.4	1129.6	1127.1	1128.3	1127.1	1125.8	1128.3
20°	1143.5	1139.7	1138.4	1132.1	1120.7	1114.4	1109.4	1106.8	1108.1	1104.3	1105.6
22.5°	1132.1	1127.1	1124.5	1116.9	1105.6	1098.0	1091.7	1086.6	1085.4	1080.3	1081.6
25°	1118.2	1111.9	1108.1	1101.8	1089.1	1080.3	1072.7	1065.1	1061.3	1055.0	1053.8
27.5°	1101.8	1095.5	1090.4	1084.1	1071.5	1060.1	1051.2	1041.1	1036.1	1028.5	1024.7
30°	1085.4	1077.8	1070.2	1065.1	1051.2	1038.6	1024.7	1015.9	1008.3	999.4	993.1
32.5°	1065.1	1057.6	1050.0	1042.4	1029.8	1014.6	1003.2	989.3	980.5	970.4	962.8
35°	1044.9	1034.8	1027.2	1017.1	1005.8	988.1	974.2	960.3	948.9	937.5	928.7
37.5°	1022.2	1014.6	1003.2	994.4	980.5	962.8	947.6	929.9	919.8	904.7	893.3
40°	1000.7	991.9	980.5	969.1	955.2	935.0	918.6	898.4	887.0	869.3	857.9
42.5°	979.2	966.6	955.2	942.6	927.4	908.5	888.2	868.0	852.9	836.4	820.0
45°	955.2	941.3	927.4	913.5	898.4	879.4	857.9	836.4	817.5	802.3	782.1
47.5°	929.9	916.0	899.6	884.5	868.0	849.1	826.3	803.6	783.4	765.7	744.2
50°	904.7	890.8	873.1	856.7	837.7	818.8	794.7	768.2	746.7	724.0	705.0
52.5°	878.1	864.2	847.8	826.3	806.1	787.2	761.9	734.1	710.1	691.1	667.1
55°	851.6	837.7	818.8	797.3	777.1	753.1	729.0	701.2	674.7	652.0	628.0
57.5°	823.8	811.2	789.7	772.0	746.7	721.5	696.2	669.7	640.6	614.1	586.3
60°	796.0	782.1	761.9	740.4	715.1	689.9	663.3	634.3	604.0	574.9	549.6
62.5°	770.7	753.1	734.1	711.4	684.8	660.8	630.5	598.9	568.6	538.3	507.9
65°	741.7	722.7	705.0	682.3	654.5	626.7	596.4	564.8	531.9	499.1	468.8
67.5°	712.6	693.7	674.7	652.0	622.9	593.9	562.3	530.7	494.0	462.4	427.1
70°	683.6	668.4	644.4	620.4	593.9	562.3	530.7	496.6	458.7	424.5	387.9
72.5°	654.5	639.3	615.3	590.1	564.8	531.9	497.8	463.7	428.3	389.2	350.0
75°	626.7	607.7	586.3	562.3	535.7	501.6	467.5	432.1	390.4	353.8	313.4
77.5°	600.2	582.5	561.0	534.5	505.4	472.6	437.2	400.5	358.8	319.7	275.4
80°	571.1	553.4	531.9	505.4	476.3	444.8	406.9	368.9	328.5	285.6	240.1
82.5°	543.3	526.9	502.9	478.9	447.3	415.7	377.8	339.9	296.9	255.2	211.0
85°	514.2	497.8	475.1	449.8	419.5	385.4	350.0	312.1	269.1	226.2	181.9
87.5°	489.0	470.0	447.3	422.0	391.7	358.8	324.7	284.3	242.6	200.9	155.4
90°	462.4	444.8	422.0	396.7	366.4	333.6	298.2	260.3	219.9	176.9	133.9
92.5°	439.7	420.7	399.3	374.0	343.7	312.1	276.7	238.8	199.6	157.9	116.2
95°	417.0	398.0	377.8	352.5	322.2	290.6	255.2	218.6	180.7	140.2	101.1
97.5°	391.7	375.3	355.0	331.0	300.7	270.4	236.3	200.9	164.3	125.1	88.4
100°	371.5	352.5	333.6	308.3	280.5	251.4	217.3	183.2	147.8	111.2	77.1
102.5°	348.7	331.0	312.1	288.1	260.3	231.2	199.6	166.8	133.9	99.8	67.0
105°	327.2	310.8	290.6	267.9	241.3	213.5	183.2	152.9	121.3	88.4	59.4
107.5°	305.8	289.3	270.4	248.9	223.6	195.8	168.0	137.7	108.7	79.6	53.1
110°	284.3	269.1	251.4	230.0	206.0	180.7	154.1	126.4	97.3	70.8	46.7

TEST NUMBER: P1214178

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	265.3	250.2	232.5	212.3	189.5	165.5	140.2	113.7	87.2	63.2	40.4
115°	246.4	232.5	214.8	197.1	174.4	151.6	127.6	102.3	78.3	56.9	35.4
117.5°	227.4	213.5	197.1	179.4	159.2	137.7	115.0	91.0	70.8	50.5	31.6
120°	208.5	195.8	180.7	164.3	146.6	125.1	102.3	82.1	63.2	44.2	27.8
122.5°	190.8	179.4	165.5	150.4	131.4	111.2	92.2	74.5	56.9	39.2	22.7
125°	174.4	163.0	150.4	135.2	117.5	99.8	83.4	67.0	49.3	34.1	19.0
127.5°	157.9	146.6	133.9	120.0	106.1	89.7	74.5	59.4	44.2	30.3	16.4
130°	141.5	131.4	120.0	108.7	94.8	79.6	67.0	51.8	37.9	24.0	13.9
132.5°	125.1	117.5	107.4	96.0	83.4	72.0	58.1	45.5	32.9	21.5	12.6
135°	111.2	103.6	94.8	84.7	74.5	63.2	50.5	39.2	27.8	17.7	10.1
137.5°	98.6	92.2	83.4	74.5	65.7	54.3	44.2	32.9	22.7	15.2	7.6
140°	87.2	80.9	73.3	64.4	56.9	46.7	36.6	26.5	20.2	12.6	6.3
142.5°	75.8	69.5	63.2	55.6	48.0	39.2	30.3	22.7	16.4	10.1	6.3
145°	64.4	59.4	53.1	46.7	39.2	31.6	25.3	19.0	12.6	7.6	5.1
147.5°	53.1	49.3	43.0	37.9	31.6	25.3	20.2	15.2	10.1	6.3	3.8
150°	43.0	39.2	34.1	29.1	25.3	20.2	16.4	11.4	7.6	6.3	3.8
152.5°	32.9	30.3	26.5	24.0	20.2	15.2	11.4	8.8	6.3	5.1	2.5
155°	26.5	24.0	21.5	17.7	15.2	11.4	8.8	6.3	5.1	3.8	2.5
157.5°	19.0	17.7	15.2	12.6	10.1	7.6	6.3	6.3	3.8	2.5	1.3
160°	12.6	11.4	10.1	7.6	6.3	6.3	5.1	3.8	2.5	2.5	1.3
162.5°	7.6	6.3	6.3	6.3	5.1	5.1	3.8	2.5	2.5	1.3	1.3
165°	5.1	5.1	5.1	3.8	3.8	3.8	2.5	1.3	1.3	1.3	1.3
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: P1214178

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1199.1	1195.3	1200.3	1209.2	1210.4	1209.2	1206.7	1210.4	1215.5	1214.2	1205.4
5°	1196.5	1191.5	1196.5	1205.4	1205.4	1204.1	1202.9	1206.7	1211.7	1210.4	1202.9
7.5°	1189.0	1183.9	1189.0	1196.5	1197.8	1195.3	1195.3	1199.1	1204.1	1202.9	1196.5
10°	1178.9	1173.8	1176.3	1185.2	1187.7	1185.2	1185.2	1189.0	1195.3	1194.0	1186.4
12.5°	1163.7	1159.9	1162.4	1170.0	1172.5	1171.3	1170.0	1175.1	1181.4	1181.4	1173.8
15°	1147.3	1142.2	1144.7	1153.6	1154.8	1152.3	1153.6	1157.4	1165.0	1165.0	1158.6
17.5°	1128.3	1122.0	1125.8	1132.1	1133.4	1133.4	1133.4	1138.4	1147.3	1146.0	1141.0
20°	1106.8	1098.0	1100.5	1106.8	1109.4	1109.4	1109.4	1118.2	1124.5	1124.5	1119.5
22.5°	1081.6	1075.2	1075.2	1081.6	1085.4	1084.1	1084.1	1091.7	1100.5	1099.3	1099.3
25°	1052.5	1047.5	1044.9	1052.5	1053.8	1055.0	1057.6	1065.1	1075.2	1075.2	1076.5
27.5°	1022.2	1017.1	1015.9	1022.2	1023.4	1024.7	1027.2	1036.1	1046.2	1047.5	1050.0
30°	993.1	985.5	983.0	988.1	990.6	991.9	991.9	1005.8	1014.6	1018.4	1023.4
32.5°	959.0	951.4	945.1	954.0	955.2	957.7	959.0	972.9	983.0	989.3	996.9
35°	924.9	912.3	909.7	916.0	918.6	919.8	922.4	937.5	951.4	956.5	966.6
37.5°	887.0	878.1	870.6	876.9	879.4	880.7	888.2	902.1	916.0	923.6	933.7
40°	851.6	840.2	833.9	837.7	840.2	841.5	850.3	865.5	881.9	890.8	903.4
42.5°	812.4	797.3	792.2	796.0	797.3	801.1	808.6	828.9	845.3	857.9	868.0
45°	773.3	761.9	750.5	754.3	755.6	758.1	769.5	791.0	808.6	823.8	835.2
47.5°	732.8	718.9	707.6	710.1	715.1	716.4	729.0	754.3	770.7	787.2	802.3
50°	692.4	673.5	664.6	664.6	667.1	673.5	689.9	715.1	732.8	751.8	768.2
52.5°	650.7	633.0	622.9	624.2	626.7	634.3	649.4	674.7	694.9	715.1	735.4
55°	609.0	590.1	580.0	577.4	580.0	590.1	607.7	634.3	654.5	678.5	700.0
57.5°	567.3	544.6	535.7	531.9	534.5	547.1	564.8	592.6	617.9	640.6	665.9
60°	521.8	504.1	489.0	480.1	486.5	502.9	521.8	550.9	577.4	602.7	630.5
62.5°	482.7	459.9	443.5	434.6	441.0	454.9	481.4	509.2	538.3	567.3	595.1
65°	438.4	415.7	396.7	387.9	394.2	410.6	437.2	467.5	499.1	528.1	561.0
67.5°	395.5	371.5	348.7	339.9	347.5	365.2	394.2	428.3	462.4	492.8	528.1
70°	353.8	327.2	303.2	296.9	302.0	326.0	353.8	387.9	423.3	458.7	495.3
72.5°	315.9	283.0	257.8	250.2	256.5	283.0	314.6	350.0	387.9	425.8	465.0
75°	271.7	241.3	213.5	204.7	212.3	236.3	275.4	313.4	353.8	394.2	430.9
77.5°	236.3	200.9	171.8	157.9	170.6	200.9	238.8	279.2	320.9	362.6	404.3
80°	199.6	163.0	131.4	116.2	130.1	163.0	200.9	245.1	291.9	333.6	371.5
82.5°	166.8	127.6	94.8	78.3	93.5	130.1	171.8	216.1	261.5	303.2	347.5
85°	136.5	96.0	61.9	44.2	65.7	98.6	142.8	188.3	235.0	278.0	320.9
87.5°	111.2	72.0	37.9	19.0	40.4	77.1	118.8	164.3	211.0	254.0	294.4
90°	91.0	51.8	20.2	2.5	24.0	58.1	98.6	142.8	187.0	231.2	271.7
92.5°	74.5	39.2	11.4	1.3	15.2	46.7	84.7	126.4	169.3	212.3	251.4
95°	61.9	30.3	7.6	1.3	11.4	36.6	72.0	112.5	152.9	194.6	233.7
97.5°	53.1	25.3	6.3	1.3	8.8	31.6	61.9	99.8	139.0	178.2	216.1
100°	45.5	20.2	5.1	1.3	7.6	26.5	54.3	88.4	125.1	163.0	199.6
102.5°	39.2	16.4	3.8	1.3	6.3	22.7	48.0	79.6	112.5	149.1	184.5
105°	34.1	13.9	3.8	1.3	5.1	20.2	43.0	70.8	103.6	136.5	170.6
107.5°	29.1	11.4	2.5	1.3	3.8	16.4	37.9	64.4	93.5	125.1	156.7
110°	25.3	10.1	2.5	1.3	3.8	15.2	32.9	58.1	84.7	113.7	144.0

TEST NUMBER: P1214178

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	21.5	7.6	2.5	1.3	2.5	12.6	29.1	51.8	77.1	103.6	132.7
115°	19.0	6.3	1.3	1.3	2.5	11.4	26.5	46.7	69.5	94.8	121.3
117.5°	15.2	5.1	1.3	1.3	1.3	8.8	22.7	41.7	63.2	87.2	111.2
120°	12.6	5.1	1.3	1.3	1.3	7.6	20.2	36.6	56.9	78.3	101.1
122.5°	11.4	3.8	1.3	1.3	1.3	6.3	17.7	32.9	50.5	70.8	92.2
125°	10.1	3.8	1.3	1.3	1.3	5.1	15.2	29.1	45.5	63.2	83.4
127.5°	7.6	3.8	1.3	1.3	1.3	3.8	13.9	25.3	40.4	56.9	74.5
130°	6.3	2.5	1.3	1.3	1.3	3.8	11.4	22.7	35.4	50.5	67.0
132.5°	5.1	2.5	1.3	1.3	1.3	2.5	8.8	17.7	30.3	44.2	59.4
135°	5.1	2.5	1.3	1.3	1.3	2.5	6.3	15.2	25.3	37.9	50.5
137.5°	5.1	1.3	1.3	1.3	1.3	2.5	5.1	11.4	20.2	30.3	41.7
140°	3.8	1.3	1.3	1.3	1.3	1.3	3.8	8.8	16.4	25.3	35.4
142.5°	3.8	1.3	1.3	1.3	1.3	1.3	3.8	6.3	12.6	20.2	27.8
145°	2.5	1.3	1.3	1.3	1.3	1.3	2.5	5.1	10.1	15.2	22.7
147.5°	2.5	1.3	1.3	1.3	1.3	1.3	2.5	3.8	7.6	12.6	17.7
150°	2.5	1.3	1.3	1.3	1.3	1.3	2.5	3.8	5.1	8.8	13.9
152.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.5	2.5	3.8	6.3	8.8
155°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.5	3.8	5.1	6.3
157.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.5	2.5	3.8	5.1
160°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.5	2.5	3.8
162.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.5	2.5
165°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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: P1214178

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1201.6	1192.8	1195.3	1194.0	1196.5	1200.3	1200.3	1199.1	1199.1	1196.5	1194.0
5°	1199.1	1190.2	1194.0	1192.8	1195.3	1199.1	1199.1	1197.8	1197.8	1194.0	1192.8
7.5°	1191.5	1185.2	1187.7	1187.7	1190.2	1194.0	1194.0	1192.8	1192.8	1189.0	1187.7
10°	1183.9	1176.3	1180.1	1180.1	1182.6	1187.7	1187.7	1186.4	1186.4	1182.6	1181.4
12.5°	1171.3	1163.7	1170.0	1171.3	1173.8	1178.9	1177.6	1177.6	1177.6	1173.8	1172.5
15°	1156.1	1151.1	1157.4	1158.6	1162.4	1168.7	1168.7	1168.7	1168.7	1165.0	1163.7
17.5°	1139.7	1135.9	1142.2	1144.7	1149.8	1156.1	1156.1	1157.4	1158.6	1156.1	1154.8
20°	1120.7	1118.2	1124.5	1129.6	1137.2	1143.5	1146.0	1147.3	1149.8	1147.3	1146.0
22.5°	1099.3	1099.3	1108.1	1113.2	1122.0	1128.3	1132.1	1135.9	1138.4	1135.9	1134.6
25°	1075.2	1079.0	1087.9	1096.7	1106.8	1113.2	1116.9	1122.0	1124.5	1123.3	1122.0
27.5°	1052.5	1057.6	1068.9	1077.8	1086.6	1096.7	1100.5	1106.8	1109.4	1109.4	1108.1
30°	1026.0	1033.6	1046.2	1056.3	1067.7	1077.8	1082.8	1089.1	1092.9	1090.4	1091.7
32.5°	1000.7	1013.3	1023.4	1034.8	1047.5	1057.6	1063.9	1071.5	1075.2	1074.0	1075.2
35°	972.9	985.5	999.4	1010.8	1026.0	1036.1	1044.9	1051.2	1056.3	1055.0	1055.0
37.5°	942.6	959.0	972.9	988.1	1002.0	1013.3	1022.2	1029.8	1034.8	1034.8	1034.8
40°	913.5	931.2	945.1	962.8	980.5	990.6	1000.7	1008.3	1013.3	1014.6	1015.9
42.5°	881.9	900.9	917.3	936.3	954.0	966.6	978.0	986.8	991.9	994.4	993.1
45°	852.9	870.6	889.5	911.0	927.4	940.1	954.0	964.1	969.1	970.4	971.6
47.5°	820.0	840.2	861.7	883.2	899.6	916.0	928.7	938.8	943.8	947.6	947.6
50°	788.4	809.9	833.9	856.7	874.3	890.8	903.4	914.8	921.1	923.6	924.9
52.5°	759.4	779.6	804.9	827.6	845.3	861.7	878.1	890.8	897.1	899.6	899.6
55°	724.0	749.3	777.1	798.5	817.5	836.4	852.9	865.5	871.8	875.6	878.1
57.5°	691.1	717.7	746.7	769.5	792.2	809.9	825.1	841.5	846.6	851.6	852.9
60°	659.6	686.1	713.9	739.2	761.9	780.8	798.5	812.4	821.3	823.8	826.3
62.5°	626.7	654.5	683.6	708.8	732.8	755.6	772.0	784.6	794.7	798.5	801.1
65°	595.1	624.2	653.2	679.8	705.0	727.8	744.2	756.8	767.0	773.3	774.5
67.5°	561.0	592.6	622.9	650.7	676.0	700.0	716.4	729.0	739.2	746.7	748.0
70°	529.4	562.3	592.6	622.9	648.2	672.2	689.9	702.5	713.9	718.9	721.5
72.5°	499.1	533.2	564.8	595.1	620.4	644.4	663.3	676.0	687.3	693.7	694.9
75°	470.0	504.1	538.3	567.3	593.9	617.9	636.8	650.7	660.8	667.1	669.7
77.5°	441.0	476.3	510.5	539.5	567.3	591.3	607.7	624.2	634.3	641.9	641.9
80°	411.9	448.5	483.9	513.0	540.8	562.3	581.2	597.6	607.7	615.3	615.3
82.5°	386.6	422.0	456.1	485.2	513.0	537.0	555.9	571.1	582.5	587.5	588.8
85°	357.6	396.7	428.3	459.9	486.5	509.2	528.1	544.6	554.7	559.7	562.3
87.5°	333.6	371.5	405.6	433.4	459.9	482.7	504.1	518.0	528.1	534.5	537.0
90°	310.8	347.5	381.6	409.4	437.2	458.7	478.9	492.8	504.1	509.2	511.7
92.5°	290.6	327.2	360.1	387.9	414.4	438.4	457.4	471.3	481.4	486.5	490.2
95°	271.7	307.0	338.6	368.9	394.2	415.7	435.9	449.8	461.2	465.0	468.8
97.5°	252.7	286.8	318.4	347.5	374.0	394.2	413.2	427.1	435.9	442.2	446.0
100°	236.3	269.1	299.5	327.2	352.5	371.5	391.7	404.3	413.2	418.2	423.3
102.5°	218.6	251.4	280.5	307.0	333.6	351.3	370.2	382.8	390.4	399.3	399.3
105°	203.4	233.7	262.8	288.1	310.8	332.3	348.7	361.4	370.2	376.5	376.5
107.5°	187.0	217.3	245.1	271.7	293.1	313.4	328.5	339.9	350.0	353.8	357.6
110°	174.4	200.9	228.7	254.0	274.2	293.1	308.3	320.9	329.8	333.6	336.1

TEST NUMBER: P1214178

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	159.2	187.0	212.3	236.3	256.5	274.2	289.3	299.5	308.3	313.4	314.6
115°	146.6	173.1	195.8	218.6	240.1	255.2	269.1	279.2	288.1	291.9	294.4
117.5°	135.2	159.2	181.9	200.9	221.1	237.5	251.4	260.3	267.9	272.9	275.4
120°	123.8	146.6	166.8	185.7	204.7	219.9	232.5	241.3	250.2	254.0	254.0
122.5°	112.5	133.9	152.9	170.6	188.3	202.2	216.1	223.6	231.2	235.0	235.0
125°	102.3	122.6	140.2	156.7	173.1	185.7	197.1	206.0	213.5	216.1	216.1
127.5°	92.2	111.2	127.6	142.8	156.7	169.3	180.7	189.5	195.8	198.4	198.4
130°	83.4	99.8	115.0	130.1	144.0	154.1	165.5	173.1	176.9	180.7	181.9
132.5°	74.5	89.7	103.6	116.2	130.1	140.2	149.1	156.7	160.5	164.3	165.5
135°	65.7	79.6	92.2	104.9	116.2	126.4	133.9	140.2	145.3	147.8	149.1
137.5°	55.6	70.8	82.1	92.2	104.9	112.5	121.3	125.1	130.1	132.7	132.7
140°	46.7	58.1	70.8	80.9	91.0	98.6	106.1	112.5	116.2	117.5	117.5
142.5°	37.9	48.0	58.1	70.8	79.6	85.9	93.5	98.6	101.1	102.3	103.6
145°	30.3	37.9	46.7	58.1	68.2	75.8	79.6	84.7	87.2	88.4	89.7
147.5°	22.7	30.3	37.9	45.5	55.6	63.2	67.0	72.0	74.5	75.8	75.8
150°	17.7	22.7	27.8	35.4	43.0	51.8	56.9	60.6	61.9	63.2	63.2
152.5°	12.6	17.7	21.5	26.5	31.6	39.2	46.7	49.3	50.5	51.8	51.8
155°	8.8	12.6	15.2	19.0	22.7	29.1	35.4	39.2	40.4	41.7	41.7
157.5°	6.3	8.8	10.1	13.9	16.4	19.0	24.0	30.3	31.6	31.6	31.6
160°	3.8	5.1	6.3	8.8	10.1	12.6	15.2	19.0	22.7	22.7	22.7
162.5°	2.5	3.8	3.8	5.1	5.1	7.6	8.8	10.1	13.9	15.2	15.2
165°	1.3	2.5	2.5	2.5	2.5	2.5	3.8	3.8	6.3	7.6	7.6
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: P1214178

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1195.3	1197.8	1196.5	1196.5	1196.5	1199.1	1196.5	1185.2	1187.7	1190.2	1192.8
5°	1194.0	1195.3	1195.3	1194.0	1194.0	1196.5	1194.0	1182.6	1185.2	1187.7	1189.0
7.5°	1189.0	1190.2	1190.2	1190.2	1189.0	1191.5	1187.7	1177.6	1177.6	1180.1	1181.4
10°	1182.6	1185.2	1183.9	1182.6	1182.6	1182.6	1180.1	1168.7	1168.7	1170.0	1171.3
12.5°	1175.1	1175.1	1175.1	1173.8	1172.5	1172.5	1170.0	1158.6	1157.4	1159.9	1158.6
15°	1165.0	1167.5	1165.0	1163.7	1161.2	1161.2	1157.4	1146.0	1143.5	1144.7	1143.5
17.5°	1156.1	1157.4	1154.8	1152.3	1149.8	1148.5	1144.7	1132.1	1128.3	1129.6	1127.1
20°	1147.3	1147.3	1144.7	1142.2	1138.4	1134.6	1129.6	1116.9	1110.6	1110.6	1105.6
22.5°	1135.9	1135.9	1133.4	1129.6	1125.8	1120.7	1115.7	1103.0	1092.9	1090.4	1086.6
25°	1123.3	1122.0	1120.7	1116.9	1109.4	1104.3	1099.3	1085.4	1074.0	1068.9	1062.6
27.5°	1108.1	1108.1	1104.3	1100.5	1092.9	1086.6	1080.3	1067.7	1052.5	1046.2	1037.3
30°	1091.7	1091.7	1087.9	1082.8	1075.2	1067.7	1060.1	1044.9	1029.8	1020.9	1010.8
32.5°	1075.2	1074.0	1070.2	1065.1	1057.6	1046.2	1039.9	1024.7	1007.0	996.9	983.0
35°	1055.0	1053.8	1050.0	1043.7	1033.6	1024.7	1014.6	1000.7	980.5	967.8	952.7
37.5°	1034.8	1033.6	1031.0	1022.2	1012.1	1002.0	989.3	975.4	956.5	940.1	924.9
40°	1014.6	1013.3	1008.3	1002.0	989.3	976.7	964.1	950.2	929.9	911.0	894.6
42.5°	993.1	991.9	985.5	978.0	964.1	951.4	936.3	921.1	900.9	878.1	861.7
45°	971.6	969.1	962.8	954.0	938.8	924.9	909.7	892.0	871.8	850.3	828.9
47.5°	948.9	945.1	938.8	926.2	913.5	898.4	880.7	861.7	841.5	817.5	794.7
50°	923.6	921.1	913.5	902.1	887.0	871.8	851.6	832.7	808.6	785.9	758.1
52.5°	899.6	894.6	888.2	875.6	860.5	844.0	822.5	799.8	775.8	754.3	725.3
55°	874.3	871.8	863.0	852.9	833.9	815.0	794.7	770.7	744.2	718.9	691.1
57.5°	850.3	845.3	837.7	823.8	807.4	788.4	767.0	741.7	712.6	686.1	655.8
60°	826.3	818.8	809.9	797.3	779.6	759.4	736.6	710.1	681.0	652.0	620.4
62.5°	799.8	793.5	783.4	770.7	753.1	731.6	707.6	679.8	652.0	621.6	587.5
65°	773.3	767.0	756.8	744.2	726.5	702.5	677.2	649.4	617.9	588.8	552.2
67.5°	746.7	740.4	729.0	715.1	697.5	674.7	648.2	619.1	587.5	555.9	518.0
70°	720.2	712.6	702.5	687.3	669.7	645.7	619.1	588.8	557.2	523.1	485.2
72.5°	693.7	687.3	674.7	660.8	641.9	617.9	591.3	561.0	528.1	492.8	454.9
75°	667.1	659.6	650.7	634.3	614.1	591.3	563.5	533.2	497.8	463.7	424.5
77.5°	640.6	634.3	622.9	606.5	587.5	563.5	535.7	505.4	470.0	434.6	393.0
80°	614.1	606.5	597.6	582.5	561.0	537.0	507.9	477.6	442.2	405.6	363.9
82.5°	587.5	580.0	569.8	554.7	534.5	510.5	482.7	449.8	414.4	376.5	337.4
85°	561.0	554.7	543.3	528.1	506.7	482.7	454.9	425.8	387.9	350.0	310.8
87.5°	534.5	528.1	516.8	501.6	481.4	457.4	429.6	399.3	362.6	327.2	284.3
90°	509.2	504.1	492.8	477.6	457.4	433.4	408.1	375.3	339.9	304.5	264.1
92.5°	486.5	481.4	471.3	456.1	438.4	411.9	386.6	355.0	319.7	283.0	243.9
95°	466.2	459.9	449.8	435.9	414.4	391.7	366.4	334.8	300.7	264.1	226.2
97.5°	443.5	437.2	427.1	411.9	394.2	370.2	344.9	314.6	280.5	246.4	208.5
100°	420.7	414.4	403.1	390.4	372.7	348.7	324.7	294.4	262.8	230.0	193.3
102.5°	398.0	391.7	381.6	368.9	351.3	329.8	305.8	276.7	245.1	212.3	178.2
105°	376.5	370.2	360.1	347.5	331.0	309.6	284.3	259.0	228.7	197.1	164.3
107.5°	355.0	348.7	339.9	327.2	310.8	290.6	266.6	240.1	212.3	181.9	150.4
110°	333.6	328.5	318.4	307.0	290.6	270.4	248.9	223.6	195.8	168.0	137.7

TEST NUMBER: P1214178

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	313.4	308.3	298.2	285.6	271.7	252.7	231.2	207.2	180.7	154.1	125.1
115°	293.1	286.8	278.0	266.6	252.7	235.0	214.8	193.3	166.8	141.5	115.0
117.5°	272.9	267.9	259.0	247.6	235.0	217.3	198.4	178.2	152.9	128.9	104.9
120°	252.7	248.9	240.1	230.0	217.3	200.9	183.2	163.0	140.2	117.5	94.8
122.5°	233.7	230.0	221.1	212.3	199.6	184.5	168.0	149.1	128.9	107.4	87.2
125°	216.1	211.0	203.4	194.6	183.2	169.3	152.9	135.2	116.2	97.3	78.3
127.5°	197.1	193.3	188.3	178.2	166.8	154.1	139.0	123.8	106.1	88.4	70.8
130°	181.9	176.9	170.6	163.0	152.9	140.2	126.4	111.2	96.0	79.6	61.9
132.5°	164.3	159.2	154.1	146.6	137.7	126.4	113.7	99.8	85.9	70.8	55.6
135°	147.8	144.0	139.0	131.4	122.6	113.7	101.1	88.4	75.8	61.9	49.3
137.5°	132.7	128.9	123.8	118.8	109.9	101.1	89.7	78.3	67.0	54.3	43.0
140°	117.5	115.0	109.9	104.9	97.3	88.4	78.3	68.2	58.1	46.7	36.6
142.5°	102.3	99.8	96.0	91.0	84.7	77.1	68.2	59.4	49.3	40.4	31.6
145°	88.4	87.2	83.4	78.3	73.3	65.7	58.1	50.5	41.7	34.1	25.3
147.5°	74.5	73.3	70.8	67.0	61.9	55.6	49.3	41.7	35.4	27.8	20.2
150°	61.9	60.6	59.4	54.3	51.8	45.5	40.4	34.1	29.1	21.5	16.4
152.5°	50.5	50.5	48.0	44.2	41.7	36.6	32.9	27.8	22.7	17.7	12.6
155°	40.4	39.2	37.9	35.4	32.9	29.1	25.3	21.5	17.7	12.6	8.8
157.5°	31.6	30.3	29.1	26.5	24.0	22.7	19.0	15.2	11.4	8.8	6.3
160°	22.7	21.5	20.2	19.0	17.7	15.2	12.6	10.1	7.6	5.1	3.8
162.5°	15.2	13.9	13.9	12.6	11.4	8.8	7.6	6.3	5.1	3.8	2.5
165°	7.6	7.6	6.3	6.3	5.1	3.8	3.8	3.8	2.5	2.5	1.3
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: P1214178

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1191.5	1191.5	1196.5	1195.3	1191.5	1199.1	1207.9
5°	1187.7	1187.7	1191.5	1191.5	1187.7	1195.3	1202.9
7.5°	1181.4	1180.1	1183.9	1183.9	1178.9	1185.2	1194.0
10°	1170.0	1168.7	1172.5	1172.5	1167.5	1173.8	1181.4
12.5°	1157.4	1154.8	1158.6	1157.4	1152.3	1158.6	1166.2
15°	1141.0	1139.7	1142.2	1139.7	1134.6	1141.0	1148.5
17.5°	1124.5	1120.7	1122.0	1122.0	1113.2	1119.5	1125.8
20°	1103.0	1098.0	1099.3	1098.0	1091.7	1095.5	1103.0
22.5°	1081.6	1074.0	1074.0	1072.7	1065.1	1070.2	1076.5
25°	1055.0	1046.2	1046.2	1044.9	1036.1	1039.9	1046.2
27.5°	1028.5	1019.7	1015.9	1014.6	1005.8	1005.8	1014.6
30°	1000.7	988.1	985.5	981.7	972.9	972.9	980.5
32.5°	974.2	956.5	951.4	946.4	937.5	936.3	945.1
35°	938.8	924.9	916.0	911.0	900.9	898.4	905.9
37.5°	909.7	892.0	879.4	873.1	863.0	859.2	869.3
40°	878.1	859.2	842.8	839.0	823.8	818.8	827.6
42.5°	842.8	822.5	806.1	798.5	787.2	782.1	783.4
45°	807.4	785.9	768.2	758.1	746.7	737.9	742.9
47.5°	770.7	751.8	730.3	715.1	701.2	694.9	697.5
50°	734.1	711.4	691.1	674.7	658.3	650.7	655.8
52.5°	697.5	673.5	650.7	633.0	614.1	606.5	607.7
55°	662.1	636.8	610.3	591.3	573.6	562.3	559.7
57.5°	626.7	598.9	571.1	549.6	526.9	516.8	513.0
60°	588.8	559.7	530.7	505.4	481.4	470.0	465.0
62.5°	553.4	521.8	489.0	462.4	438.4	423.3	419.5
65°	519.3	482.7	449.8	419.5	393.0	376.5	371.5
67.5°	482.7	444.8	409.4	376.5	351.3	329.8	327.2
70°	448.5	408.1	368.9	334.8	307.0	285.6	275.4
72.5°	414.4	372.7	332.3	295.7	260.3	240.1	232.5
75°	381.6	338.6	295.7	257.8	218.6	194.6	187.0
77.5°	351.3	307.0	261.5	219.9	183.2	152.9	142.8
80°	322.2	276.7	228.7	185.7	146.6	113.7	102.3
82.5°	291.9	248.9	199.6	154.1	113.7	79.6	65.7
85°	265.3	222.4	173.1	127.6	87.2	50.5	35.4
87.5°	243.9	197.1	152.9	107.4	65.7	29.1	10.1
90°	222.4	176.9	132.7	88.4	49.3	16.4	1.3
92.5°	203.4	160.5	116.2	75.8	37.9	11.4	1.3
95°	185.7	144.0	102.3	63.2	30.3	7.6	1.3
97.5°	169.3	130.1	91.0	54.3	25.3	6.3	1.3
100°	155.4	117.5	80.9	48.0	21.5	5.1	1.3
102.5°	141.5	106.1	72.0	41.7	19.0	3.8	1.3
105°	130.1	96.0	64.4	37.9	16.4	3.8	1.3
107.5°	118.8	87.2	58.1	32.9	13.9	2.5	1.3
110°	107.4	79.6	51.8	29.1	12.6	2.5	1.3



TEST NUMBER: P1214178

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	98.6	72.0	46.7	26.5	10.1	2.5	1.3
115°	89.7	64.4	41.7	22.7	8.8	1.3	1.3
117.5°	80.9	58.1	36.6	20.2	7.6	1.3	1.3
120°	73.3	51.8	32.9	17.7	6.3	1.3	1.3
122.5°	65.7	46.7	29.1	15.2	5.1	1.3	1.3
125°	59.4	41.7	25.3	12.6	3.8	1.3	1.3
127.5°	53.1	36.6	22.7	11.4	3.8	1.3	1.3
130°	46.7	32.9	19.0	8.8	2.5	1.3	1.3
132.5°	41.7	27.8	16.4	7.6	2.5	1.3	1.3
135°	36.6	24.0	13.9	5.1	2.5	1.3	1.3
137.5°	31.6	20.2	11.4	3.8	1.3	1.3	1.3
140°	26.5	17.7	8.8	3.8	1.3	1.3	1.3
142.5°	22.7	13.9	6.3	2.5	1.3	1.3	1.3
145°	17.7	11.4	5.1	2.5	1.3	1.3	1.3
147.5°	13.9	8.8	3.8	2.5	1.3	1.3	1.3
150°	10.1	6.3	3.8	1.3	1.3	1.3	1.3
152.5°	7.6	5.1	2.5	1.3	1.3	1.3	1.3
155°	5.1	3.8	2.5	1.3	1.3	1.3	1.3
157.5°	3.8	2.5	1.3	1.3	1.3	1.3	1.3
160°	2.5	1.3	1.3	1.3	1.3	1.3	1.3
162.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3
165°	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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)