

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: P1214184

Luminaire Tested: 4SNLED-LD5-58SL-LW-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214184
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-LD5-58SL-LW-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

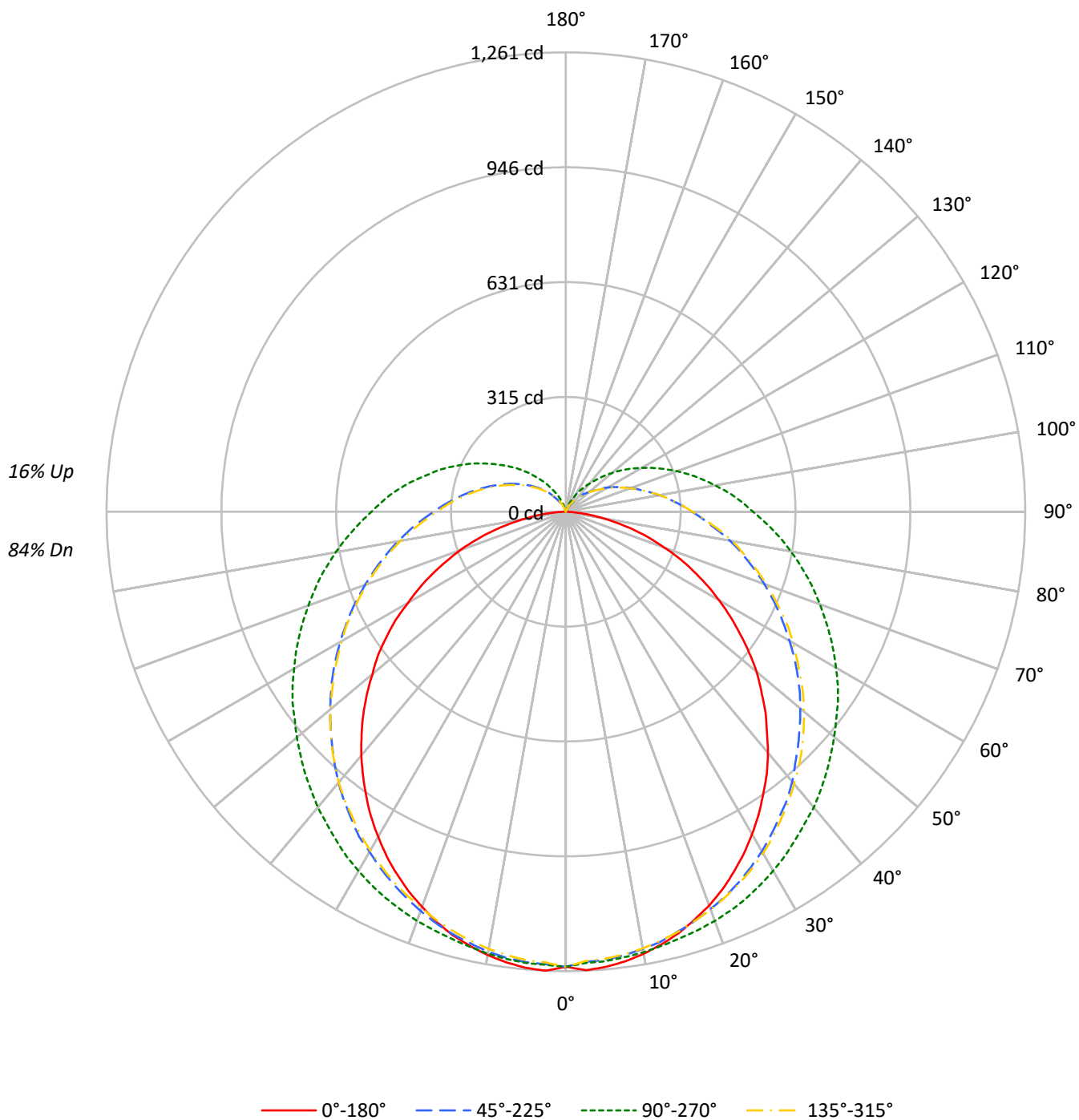
Lumens per Lamp: N/A
Luminaire Lumens: 5426.0 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 55
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-LD5-58SL-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		
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°	10092	10092	10092	10092
5°	10146	9726	10167	9767
10°	10052	9449	10084	9480
15°	9935	9213	9979	9223
20°	9779	9041	9813	9041
25°	9586	8887	9644	8877
30°	9370	8729	9443	8729
35°	9119	8583	9220	8593
40°	8870	8497	8978	8497
45°	8584	8407	8716	8418
50°	8287	8353	8399	8376
55°	7871	8361	8120	8398
60°	7433	8387	7675	8439
65°	6941	8472	7247	8555
70°	6249	8627	6737	8749
75°	5453	8909	5967	9080
80°	4218	9327	4791	9543
85°	2521	9996	3149	10273

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 11487 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	2.2
10°-20°	340.0	6.3
20°-30°	521.3	9.6
30°-40°	643.1	11.9
40°-50°	697.8	12.9
50°-60°	687.7	12.7
60°-70°	621.8	11.5
70°-80°	518.0	9.5
80°-90°	401.2	7.4
90°-100°	304.3	5.6
100°-110°	225.2	4.2
110°-120°	156.6	2.9
120°-130°	99.9	1.8
130°-140°	56.1	1.0
140°-150°	25.6	0.5
150°-160°	7.9	0.1
160°-170°	1.0	0.0
170°-180°	0.0	0.0
0°-30°	979.7	18.1
0°-40°	1622.8	29.9
0°-60°	3008.3	55.4
0°-90°	4549.3	83.8
90°-120°	686.1	12.6
90°-150°	867.7	16.0
90°-180°	877.0	16.2
0°-180°	5426.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1249	1249	1249	1249	1249	
5°	1254	1238	1257	1244	1254	119
15°	1198	1212	1203	1213	1198	337
25°	1091	1171	1097	1170	1091	502
35°	945	1099	955	1100	945	592
45°	775	1012	786	1013	775	597
55°	584	912	602	916	584	522
65°	387	800	404	808	387	384
75°	195	685	213	698	195	206
85°	37	570	46	586	37	45
90°	1	514	3	534	1	2
95°	1	466	1	489	1	1
105°	1	370	1	393	1	1
115°	1	282	1	307	1	1
125°	1	203	1	225	1	1
135°	1	132	1	156	1	1
145°	1	76	1	94	1	1
155°	1	32	1	44	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°	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9
2.5°	1259.4	1259.4	1258.1	1255.5	1256.8	1260.8	1258.1	1251.5	1247.6	1237.0	1239.7
5°	1254.2	1254.2	1252.9	1250.2	1251.5	1256.8	1254.2	1248.9	1243.6	1234.4	1238.4
7.5°	1245.0	1245.0	1243.6	1241.0	1243.6	1248.9	1246.3	1241.0	1237.0	1227.8	1231.8
10°	1231.8	1233.1	1231.8	1227.8	1233.1	1238.4	1237.0	1230.5	1226.5	1218.6	1222.6
12.5°	1216.0	1217.3	1216.0	1214.7	1217.3	1225.2	1222.6	1217.3	1214.7	1208.1	1212.0
15°	1197.5	1198.8	1196.2	1196.2	1198.8	1206.7	1206.7	1201.5	1198.8	1192.3	1200.2
17.5°	1173.8	1175.1	1173.8	1173.8	1176.4	1184.4	1185.7	1183.0	1180.4	1177.8	1185.7
20°	1150.1	1148.8	1148.8	1147.5	1152.7	1164.6	1163.3	1163.3	1160.6	1160.6	1169.9
22.5°	1122.4	1122.4	1121.1	1121.1	1127.7	1138.2	1138.2	1140.9	1138.2	1143.5	1151.4
25°	1090.8	1092.1	1090.8	1093.5	1098.7	1110.6	1111.9	1115.8	1117.2	1122.4	1131.7
27.5°	1057.9	1059.2	1057.9	1060.5	1069.7	1079.0	1085.5	1090.8	1092.1	1100.0	1111.9
30°	1022.3	1022.3	1023.6	1026.3	1036.8	1051.3	1056.6	1063.2	1063.2	1076.3	1088.2
32.5°	985.4	985.4	985.4	990.7	1002.6	1019.7	1026.3	1034.2	1036.8	1050.0	1063.2
35°	944.6	945.9	945.9	949.9	965.7	982.8	992.0	1001.2	1006.5	1022.3	1035.5
37.5°	906.4	909.0	905.1	910.3	932.7	947.2	957.8	967.0	976.2	997.3	1007.8
40°	862.9	865.5	864.2	874.8	893.2	911.6	923.5	932.7	945.9	967.0	978.8
42.5°	816.8	819.4	822.1	833.9	853.7	872.1	886.6	898.5	914.3	932.7	952.5
45°	774.6	774.6	778.6	793.1	814.2	833.9	851.0	864.2	882.7	902.4	922.2
47.5°	727.2	728.5	733.8	750.9	773.3	797.0	812.8	830.0	849.7	870.8	893.2
50°	683.7	683.7	691.6	710.1	731.2	757.5	774.6	794.4	815.5	840.5	862.9
52.5°	633.7	636.3	648.2	665.3	693.0	716.7	736.4	757.5	782.5	808.9	833.9
55°	583.6	588.9	598.1	621.8	650.8	673.2	696.9	723.3	747.0	776.0	804.9
57.5°	534.9	538.8	553.3	577.0	607.3	635.0	660.0	685.1	714.0	743.0	773.3
60°	484.8	490.1	507.2	530.9	563.9	592.8	621.8	648.2	678.5	708.8	740.4
62.5°	437.4	441.3	461.1	488.8	521.7	553.3	582.3	613.9	646.8	675.8	707.4
65°	387.3	393.9	416.3	441.3	479.5	511.2	544.1	578.3	612.6	644.2	674.5
67.5°	341.2	345.2	368.9	397.9	436.1	471.6	505.9	542.8	578.3	611.3	641.6
70°	287.2	300.4	324.1	354.4	395.2	432.1	469.0	507.2	545.4	579.7	608.6
72.5°	242.4	252.9	279.3	312.2	351.7	395.2	433.4	474.3	512.5	548.0	578.3
75°	195.0	205.5	235.8	272.7	313.5	359.7	399.2	441.3	480.9	516.4	548.0
77.5°	148.9	162.0	195.0	233.2	278.0	325.4	366.2	408.4	449.2	487.4	519.1
80°	106.7	121.2	156.8	200.2	243.7	291.1	335.9	378.1	418.9	457.1	490.1
82.5°	68.5	84.3	122.5	166.0	212.1	259.5	305.6	347.8	388.6	426.8	461.1
85°	36.9	54.0	93.5	137.0	183.1	230.5	276.7	321.4	361.0	396.5	433.4
87.5°	10.5	31.6	69.8	113.3	160.7	204.2	249.0	293.8	333.3	371.5	404.4
90°	1.3	18.4	52.7	93.5	139.6	181.8	226.6	268.8	308.3	346.5	379.4
92.5°	1.3	11.9	40.8	77.7	119.9	163.4	208.2	249.0	285.9	324.1	357.0
95°	1.3	9.2	32.9	65.9	105.4	146.2	188.4	227.9	266.1	301.7	334.6
97.5°	1.3	6.6	26.3	56.6	92.2	130.4	171.3	210.8	247.7	281.9	312.2
100°	1.3	5.3	21.1	48.7	80.4	117.2	154.1	192.3	227.9	260.8	292.5
102.5°	1.3	4.0	18.4	40.8	71.1	104.1	139.6	175.2	209.5	241.1	272.7
105°	1.3	4.0	15.8	35.6	63.2	93.5	126.5	160.7	192.3	222.6	251.6
107.5°	1.3	2.6	13.2	30.3	55.3	84.3	114.6	147.6	176.5	205.5	233.2
110°	1.3	2.6	10.5	27.7	48.7	75.1	104.1	134.4	162.0	189.7	216.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.3	2.6	9.2	23.7	42.2	67.2	93.5	121.2	147.6	175.2	198.9
115°	1.3	2.6	7.9	21.1	39.5	58.0	84.3	109.3	135.7	160.7	183.1
117.5°	1.3	2.6	6.6	17.1	34.3	52.7	73.8	98.8	122.5	146.2	167.3
120°	1.3	2.6	5.3	15.8	30.3	47.4	65.9	88.3	110.7	133.1	155.5
122.5°	1.3	1.3	5.3	13.2	26.3	42.2	60.6	77.7	98.8	119.9	139.6
125°	1.3	1.3	5.3	11.9	22.4	38.2	54.0	69.8	88.3	106.7	123.8
127.5°	1.3	1.3	4.0	9.2	19.8	32.9	47.4	64.6	77.7	94.9	112.0
130°	1.3	1.3	4.0	7.9	17.1	27.7	42.2	56.6	72.5	84.3	98.8
132.5°	1.3	1.3	4.0	6.6	13.2	22.4	35.6	48.7	63.2	76.4	88.3
135°	1.3	1.3	2.6	5.3	10.5	18.4	29.0	40.8	55.3	68.5	80.4
137.5°	1.3	1.3	2.6	5.3	7.9	15.8	22.4	32.9	46.1	58.0	69.8
140°	1.3	1.3	2.6	4.0	6.6	11.9	18.4	26.3	36.9	47.4	60.6
142.5°	1.3	1.3	1.3	4.0	5.3	9.2	14.5	21.1	29.0	38.2	48.7
145°	1.3	1.3	1.3	4.0	5.3	6.6	11.9	17.1	22.4	29.0	38.2
147.5°	1.3	1.3	1.3	2.6	4.0	5.3	9.2	13.2	17.1	22.4	27.7
150°	1.3	1.3	1.3	2.6	4.0	5.3	6.6	9.2	13.2	18.4	22.4
152.5°	1.3	1.3	1.3	2.6	2.6	4.0	5.3	6.6	9.2	13.2	15.8
155°	1.3	1.3	1.3	1.3	2.6	4.0	5.3	5.3	6.6	9.2	11.9
157.5°	1.3	1.3	1.3	1.3	2.6	2.6	4.0	4.0	5.3	5.3	7.9
160°	1.3	1.3	1.3	1.3	1.3	2.6	2.6	4.0	4.0	4.0	4.0
162.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6	4.0	4.0
165°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9
2.5°	1239.7	1241.0	1245.0	1245.0	1242.3	1242.3	1241.0	1239.7	1241.0	1243.6	1243.6
5°	1237.0	1238.4	1242.3	1243.6	1241.0	1239.7	1239.7	1238.4	1239.7	1242.3	1242.3
7.5°	1231.8	1233.1	1237.0	1238.4	1235.7	1235.7	1234.4	1233.1	1235.7	1237.0	1237.0
10°	1223.9	1225.2	1230.5	1231.8	1230.5	1229.1	1229.1	1227.8	1229.1	1231.8	1231.8
12.5°	1213.3	1216.0	1222.6	1222.6	1222.6	1221.2	1221.2	1219.9	1221.2	1223.9	1222.6
15°	1201.5	1206.7	1212.0	1214.7	1214.7	1214.7	1213.3	1212.0	1214.7	1216.0	1214.7
17.5°	1188.3	1194.9	1202.8	1205.4	1205.4	1206.7	1205.4	1204.1	1206.7	1206.7	1205.4
20°	1175.1	1181.7	1189.6	1192.3	1194.9	1196.2	1196.2	1194.9	1196.2	1197.5	1196.2
22.5°	1158.0	1165.9	1175.1	1179.1	1181.7	1184.4	1184.4	1184.4	1185.7	1187.0	1184.4
25°	1139.6	1148.8	1159.3	1163.3	1168.5	1169.9	1171.2	1171.2	1172.5	1173.8	1169.9
27.5°	1119.8	1130.3	1140.9	1147.5	1151.4	1154.1	1154.1	1155.4	1156.7	1158.0	1154.1
30°	1096.1	1111.9	1121.1	1126.4	1131.7	1135.6	1136.9	1138.2	1139.6	1140.9	1136.9
32.5°	1075.0	1088.2	1100.0	1106.6	1113.2	1118.5	1119.8	1119.8	1122.4	1122.4	1118.5
35°	1050.0	1065.8	1077.6	1084.2	1092.1	1096.1	1098.7	1098.7	1101.4	1101.4	1097.4
37.5°	1024.9	1040.8	1053.9	1061.8	1071.1	1076.3	1077.6	1077.6	1080.3	1080.3	1075.0
40°	998.6	1015.7	1030.2	1039.4	1047.3	1053.9	1055.2	1059.2	1059.2	1057.9	1052.6
42.5°	972.2	988.1	1003.9	1014.4	1024.9	1031.5	1034.2	1035.5	1035.5	1034.2	1030.2
45°	943.3	961.7	976.2	989.4	999.9	1006.5	1010.5	1011.8	1011.8	1009.1	1005.2
47.5°	915.6	934.0	948.5	963.0	973.6	981.5	985.4	986.7	985.4	984.1	980.2
50°	886.6	907.7	922.2	936.7	947.2	953.8	960.4	961.7	960.4	959.1	951.2
52.5°	856.3	878.7	894.5	909.0	920.9	928.8	934.0	935.4	935.4	932.7	927.5
55°	826.0	845.8	865.5	881.3	894.5	902.4	909.0	911.6	909.0	906.4	899.8
57.5°	798.4	816.8	836.6	853.7	866.9	877.4	882.7	885.3	882.7	878.7	872.1
60°	765.4	785.2	807.6	823.4	837.9	848.4	851.0	856.3	853.7	849.7	843.1
62.5°	733.8	757.5	777.3	797.0	808.9	820.7	826.0	828.7	826.0	822.1	815.5
65°	700.9	727.2	747.0	766.7	779.9	791.8	798.4	799.7	797.0	793.1	786.5
67.5°	670.6	695.6	716.7	737.8	749.6	761.5	768.1	770.7	768.1	762.8	756.2
70°	640.3	665.3	690.3	706.1	720.6	733.8	737.8	741.7	739.1	733.8	725.9
72.5°	610.0	636.3	661.3	677.1	693.0	704.8	710.1	714.0	711.4	706.1	696.9
75°	578.3	606.0	631.0	648.2	664.0	675.8	681.1	685.1	682.4	677.1	666.6
77.5°	549.4	577.0	600.7	619.2	635.0	645.5	654.8	656.1	653.4	648.2	637.6
80°	519.1	546.7	571.8	590.2	606.0	616.5	623.1	627.1	624.5	619.2	608.6
82.5°	492.7	517.7	542.8	561.2	577.0	590.2	595.5	599.4	598.1	590.2	582.3
85°	463.7	492.7	512.5	532.2	548.0	561.2	565.2	570.4	569.1	562.5	552.0
87.5°	434.7	463.7	487.4	507.2	521.7	532.2	538.8	541.5	540.1	533.6	521.7
90°	411.0	437.4	461.1	482.2	494.0	505.9	512.5	513.8	513.8	505.9	496.7
92.5°	388.6	413.7	437.4	457.1	471.6	482.2	487.4	490.1	488.8	482.2	471.6
95°	363.6	391.3	413.7	433.4	447.9	458.5	463.7	466.4	465.0	458.5	447.9
97.5°	342.5	367.6	390.0	408.4	422.9	433.4	438.7	441.3	441.3	434.7	424.2
100°	321.4	346.5	367.6	386.0	399.2	409.7	415.0	416.3	415.0	409.7	399.2
102.5°	300.4	324.1	345.2	362.3	376.8	386.0	391.3	392.6	392.6	386.0	375.5
105°	279.3	303.0	322.8	341.2	353.1	362.3	366.2	370.2	368.9	363.6	353.1
107.5°	259.5	283.2	301.7	318.8	330.7	339.9	343.8	347.8	346.5	341.2	330.7
110°	241.1	263.5	280.6	297.7	308.3	317.5	324.1	325.4	322.8	317.5	308.3

TEST NUMBER: P1214184

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	224.0	243.7	260.8	276.7	288.5	295.1	300.4	303.0	300.4	295.1	288.5
115°	205.5	225.3	242.4	256.9	267.4	275.3	279.3	281.9	279.3	274.0	267.4
117.5°	188.4	206.8	224.0	238.5	247.7	254.3	258.2	260.8	258.2	254.3	247.7
120°	173.9	189.7	205.5	218.7	229.2	234.5	238.5	241.1	239.8	234.5	227.9
122.5°	156.8	173.9	188.4	201.6	210.8	216.1	218.7	221.3	220.0	216.1	209.5
125°	142.3	156.8	171.3	183.1	192.3	197.6	200.2	202.9	201.6	197.6	189.7
127.5°	126.5	142.3	154.1	166.0	172.6	180.5	181.8	184.4	183.1	179.2	172.6
130°	114.6	126.5	138.3	148.9	156.8	162.0	164.7	166.0	163.4	160.7	154.1
132.5°	100.1	113.3	123.8	133.1	138.3	143.6	146.2	147.6	147.6	143.6	138.3
135°	89.6	98.8	108.0	117.2	122.5	127.8	130.4	131.7	130.4	127.8	122.5
137.5°	80.4	88.3	94.9	102.8	109.3	112.0	114.6	114.6	113.3	112.0	108.0
140°	69.8	79.0	85.6	90.9	96.2	97.5	100.1	100.1	98.8	97.5	94.9
142.5°	59.3	67.2	73.8	80.4	84.3	86.9	88.3	89.6	88.3	86.9	83.0
145°	47.4	56.6	63.2	67.2	72.5	73.8	75.1	76.4	75.1	73.8	69.8
147.5°	36.9	44.8	51.4	56.6	60.6	61.9	63.2	64.6	63.2	60.6	59.3
150°	26.3	32.9	40.8	46.1	48.7	51.4	51.4	51.4	52.7	50.1	47.4
152.5°	21.1	23.7	29.0	34.3	38.2	39.5	40.8	40.8	39.5	39.5	36.9
155°	14.5	17.1	21.1	25.0	29.0	30.3	31.6	31.6	30.3	30.3	29.0
157.5°	9.2	11.9	14.5	17.1	21.1	22.4	23.7	23.7	23.7	22.4	21.1
160°	5.3	6.6	7.9	10.5	13.2	14.5	15.8	15.8	15.8	15.8	14.5
162.5°	4.0	4.0	4.0	5.3	6.6	7.9	9.2	9.2	9.2	9.2	7.9
165°	2.6	2.6	2.6	2.6	2.6	4.0	5.3	5.3	5.3	5.3	5.3
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: P1214184

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9
2.5°	1242.3	1242.3	1243.6	1241.0	1233.1	1234.4	1234.4	1239.7	1242.3	1243.6	1250.2
5°	1239.7	1239.7	1242.3	1238.4	1231.8	1231.8	1231.8	1237.0	1238.4	1241.0	1246.3
7.5°	1235.7	1235.7	1237.0	1233.1	1225.2	1225.2	1223.9	1229.1	1231.8	1233.1	1238.4
10°	1229.1	1229.1	1230.5	1226.5	1217.3	1217.3	1216.0	1219.9	1221.2	1223.9	1227.8
12.5°	1219.9	1219.9	1219.9	1216.0	1206.7	1205.4	1204.1	1208.1	1208.1	1209.4	1213.3
15°	1212.0	1209.4	1209.4	1205.4	1196.2	1193.6	1190.9	1192.3	1194.9	1193.6	1196.2
17.5°	1202.8	1200.2	1197.5	1193.6	1181.7	1177.8	1175.1	1176.4	1175.1	1173.8	1176.4
20°	1192.3	1188.3	1187.0	1180.4	1168.5	1162.0	1156.7	1154.1	1155.4	1151.4	1152.7
22.5°	1180.4	1175.1	1172.5	1164.6	1152.7	1144.8	1138.2	1133.0	1131.7	1126.4	1127.7
25°	1165.9	1159.3	1155.4	1148.8	1135.6	1126.4	1118.5	1110.6	1106.6	1100.0	1098.7
27.5°	1148.8	1142.2	1136.9	1130.3	1117.2	1105.3	1096.1	1085.5	1080.3	1072.4	1068.4
30°	1131.7	1123.8	1115.8	1110.6	1096.1	1082.9	1068.4	1059.2	1051.3	1042.1	1035.5
32.5°	1110.6	1102.7	1094.8	1086.9	1073.7	1057.9	1046.0	1031.5	1022.3	1011.8	1003.9
35°	1089.5	1079.0	1071.1	1060.5	1048.7	1030.2	1015.7	1001.2	989.4	977.5	968.3
37.5°	1065.8	1057.9	1046.0	1036.8	1022.3	1003.9	988.1	969.6	959.1	943.3	931.4
40°	1043.4	1034.2	1022.3	1010.5	996.0	974.9	957.8	936.7	924.8	906.4	894.5
42.5°	1021.0	1007.8	996.0	982.8	967.0	947.2	926.1	905.1	889.3	872.1	855.0
45°	996.0	981.5	967.0	952.5	936.7	916.9	894.5	872.1	852.4	836.6	815.5
47.5°	969.6	955.1	938.0	922.2	905.1	885.3	861.6	837.9	816.8	798.4	776.0
50°	943.3	928.8	910.3	893.2	873.4	853.7	828.7	801.0	778.6	754.9	735.1
52.5°	915.6	901.1	884.0	861.6	840.5	820.7	794.4	765.4	740.4	720.6	695.6
55°	887.9	873.4	853.7	831.3	810.2	785.2	760.1	731.2	703.5	679.8	654.8
57.5°	859.0	845.8	823.4	804.9	778.6	752.2	725.9	698.2	667.9	640.3	611.3
60°	830.0	815.5	794.4	772.0	745.7	719.3	691.6	661.3	629.7	599.4	573.1
62.5°	803.6	785.2	765.4	741.7	714.0	689.0	657.4	624.5	592.8	561.2	529.6
65°	773.3	753.6	735.1	711.4	682.4	653.4	621.8	588.9	554.6	520.4	488.8
67.5°	743.0	723.3	703.5	679.8	649.5	619.2	586.2	553.3	515.1	482.2	445.3
70°	712.7	696.9	671.9	646.8	619.2	586.2	553.3	517.7	478.2	442.7	404.4
72.5°	682.4	666.6	641.6	615.2	588.9	554.6	519.1	483.5	446.6	405.8	364.9
75°	653.4	633.7	611.3	586.2	558.6	523.0	487.4	450.6	407.1	368.9	326.7
77.5°	625.8	607.3	584.9	557.3	527.0	492.7	455.8	417.6	374.1	333.3	287.2
80°	595.5	577.0	554.6	527.0	496.7	463.7	424.2	384.7	342.5	297.7	250.3
82.5°	566.5	549.4	524.3	499.3	466.4	433.4	393.9	354.4	309.6	266.1	220.0
85°	536.2	519.1	495.3	469.0	437.4	401.8	364.9	325.4	280.6	235.8	189.7
87.5°	509.8	490.1	466.4	440.0	408.4	374.1	338.6	296.4	252.9	209.5	162.0
90°	482.2	463.7	440.0	413.7	382.0	347.8	310.9	271.4	229.2	184.4	139.6
92.5°	458.5	438.7	416.3	390.0	358.3	325.4	288.5	249.0	208.2	164.7	121.2
95°	434.7	415.0	393.9	367.6	335.9	303.0	266.1	227.9	188.4	146.2	105.4
97.5°	408.4	391.3	370.2	345.2	313.5	281.9	246.4	209.5	171.3	130.4	92.2
100°	387.3	367.6	347.8	321.4	292.5	262.2	226.6	191.0	154.1	115.9	80.4
102.5°	363.6	345.2	325.4	300.4	271.4	241.1	208.2	173.9	139.6	104.1	69.8
105°	341.2	324.1	303.0	279.3	251.6	222.6	191.0	159.4	126.5	92.2	61.9
107.5°	318.8	301.7	281.9	259.5	233.2	204.2	175.2	143.6	113.3	83.0	55.3
110°	296.4	280.6	262.2	239.8	214.7	188.4	160.7	131.7	101.4	73.8	48.7

TEST NUMBER: P1214184

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	276.7	260.8	242.4	221.3	197.6	172.6	146.2	118.6	90.9	65.9	42.2
115°	256.9	242.4	224.0	205.5	181.8	158.1	133.1	106.7	81.7	59.3	36.9
117.5°	237.1	222.6	205.5	187.1	166.0	143.6	119.9	94.9	73.8	52.7	32.9
120°	217.4	204.2	188.4	171.3	152.8	130.4	106.7	85.6	65.9	46.1	29.0
122.5°	198.9	187.1	172.6	156.8	137.0	115.9	96.2	77.7	59.3	40.8	23.7
125°	181.8	169.9	156.8	141.0	122.5	104.1	86.9	69.8	51.4	35.6	19.8
127.5°	164.7	152.8	139.6	125.2	110.7	93.5	77.7	61.9	46.1	31.6	17.1
130°	147.6	137.0	125.2	113.3	98.8	83.0	69.8	54.0	39.5	25.0	14.5
132.5°	130.4	122.5	112.0	100.1	86.9	75.1	60.6	47.4	34.3	22.4	13.2
135°	115.9	108.0	98.8	88.3	77.7	65.9	52.7	40.8	29.0	18.4	10.5
137.5°	102.8	96.2	86.9	77.7	68.5	56.6	46.1	34.3	23.7	15.8	7.9
140°	90.9	84.3	76.4	67.2	59.3	48.7	38.2	27.7	21.1	13.2	6.6
142.5°	79.0	72.5	65.9	58.0	50.1	40.8	31.6	23.7	17.1	10.5	6.6
145°	67.2	61.9	55.3	48.7	40.8	32.9	26.3	19.8	13.2	7.9	5.3
147.5°	55.3	51.4	44.8	39.5	32.9	26.3	21.1	15.8	10.5	6.6	4.0
150°	44.8	40.8	35.6	30.3	26.3	21.1	17.1	11.9	7.9	6.6	4.0
152.5°	34.3	31.6	27.7	25.0	21.1	15.8	11.9	9.2	6.6	5.3	2.6
155°	27.7	25.0	22.4	18.4	15.8	11.9	9.2	6.6	5.3	4.0	2.6
157.5°	19.8	18.4	15.8	13.2	10.5	7.9	6.6	6.6	4.0	2.6	1.3
160°	13.2	11.9	10.5	7.9	6.6	6.6	5.3	4.0	2.6	2.6	1.3
162.5°	7.9	6.6	6.6	6.6	5.3	5.3	4.0	2.6	2.6	1.3	1.3
165°	5.3	5.3	5.3	4.0	4.0	4.0	2.6	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: P1214184

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9
2.5°	1250.2	1246.3	1251.5	1260.8	1262.1	1260.8	1258.1	1262.1	1267.3	1266.0	1256.8
5°	1247.6	1242.3	1247.6	1256.8	1256.8	1255.5	1254.2	1258.1	1263.4	1262.1	1254.2
7.5°	1239.7	1234.4	1239.7	1247.6	1248.9	1246.3	1246.3	1250.2	1255.5	1254.2	1247.6
10°	1229.1	1223.9	1226.5	1235.7	1238.4	1235.7	1235.7	1239.7	1246.3	1245.0	1237.0
12.5°	1213.3	1209.4	1212.0	1219.9	1222.6	1221.2	1219.9	1225.2	1231.8	1231.8	1223.9
15°	1196.2	1190.9	1193.6	1202.8	1204.1	1201.5	1202.8	1206.7	1214.7	1214.7	1208.1
17.5°	1176.4	1169.9	1173.8	1180.4	1181.7	1181.7	1181.7	1187.0	1196.2	1194.9	1189.6
20°	1154.1	1144.8	1147.5	1154.1	1156.7	1156.7	1156.7	1165.9	1172.5	1172.5	1167.2
22.5°	1127.7	1121.1	1121.1	1127.7	1131.7	1130.3	1130.3	1138.2	1147.5	1146.1	1146.1
25°	1097.4	1092.1	1089.5	1097.4	1098.7	1100.0	1102.7	1110.6	1121.1	1121.1	1122.4
27.5°	1065.8	1060.5	1059.2	1065.8	1067.1	1068.4	1071.1	1080.3	1090.8	1092.1	1094.8
30°	1035.5	1027.6	1024.9	1030.2	1032.9	1034.2	1034.2	1048.7	1057.9	1061.8	1067.1
32.5°	999.9	992.0	985.4	994.6	996.0	998.6	999.9	1014.4	1024.9	1031.5	1039.4
35°	964.3	951.2	948.5	955.1	957.8	959.1	961.7	977.5	992.0	997.3	1007.8
37.5°	924.8	915.6	907.7	914.3	916.9	918.2	926.1	940.6	955.1	963.0	973.6
40°	887.9	876.1	869.5	873.4	876.1	877.4	886.6	902.4	919.6	928.8	941.9
42.5°	847.1	831.3	826.0	830.0	831.3	835.2	843.1	864.2	881.3	894.5	905.1
45°	806.3	794.4	782.5	786.5	787.8	790.4	802.3	824.7	843.1	859.0	870.8
47.5°	764.1	749.6	737.8	740.4	745.7	747.0	760.1	786.5	803.6	820.7	836.6
50°	721.9	702.2	693.0	693.0	695.6	702.2	719.3	745.7	764.1	783.9	801.0
52.5°	678.5	660.0	649.5	650.8	653.4	661.3	677.1	703.5	724.6	745.7	766.7
55°	635.0	615.2	604.7	602.1	604.7	615.2	633.7	661.3	682.4	707.4	729.8
57.5°	591.5	567.8	558.6	554.6	557.3	570.4	588.9	617.9	644.2	667.9	694.3
60°	544.1	525.6	509.8	500.6	507.2	524.3	544.1	574.4	602.1	628.4	657.4
62.5°	503.3	479.5	462.4	453.2	459.8	474.3	501.9	530.9	561.2	591.5	620.5
65°	457.1	433.4	413.7	404.4	411.0	428.2	455.8	487.4	520.4	550.7	584.9
67.5°	412.3	387.3	363.6	354.4	362.3	380.7	411.0	446.6	482.2	513.8	550.7
70°	368.9	341.2	316.2	309.6	314.9	339.9	368.9	404.4	441.3	478.2	516.4
72.5°	329.4	295.1	268.8	260.8	267.4	295.1	328.0	364.9	404.4	444.0	484.8
75°	283.2	251.6	222.6	213.4	221.3	246.4	287.2	326.7	368.9	411.0	449.2
77.5°	246.4	209.5	179.2	164.7	177.9	209.5	249.0	291.1	334.6	378.1	421.6
80°	208.2	169.9	137.0	121.2	135.7	169.9	209.5	255.6	304.3	347.8	387.3
82.5°	173.9	133.1	98.8	81.7	97.5	135.7	179.2	225.3	272.7	316.2	362.3
85°	142.3	100.1	64.6	46.1	68.5	102.8	148.9	196.3	245.0	289.8	334.6
87.5°	115.9	75.1	39.5	19.8	42.2	80.4	123.8	171.3	220.0	264.8	307.0
90°	94.9	54.0	21.1	2.6	25.0	60.6	102.8	148.9	195.0	241.1	283.2
92.5°	77.7	40.8	11.9	1.3	15.8	48.7	88.3	131.7	176.5	221.3	262.2
95°	64.6	31.6	7.9	1.3	11.9	38.2	75.1	117.2	159.4	202.9	243.7
97.5°	55.3	26.3	6.6	1.3	9.2	32.9	64.6	104.1	144.9	185.8	225.3
100°	47.4	21.1	5.3	1.3	7.9	27.7	56.6	92.2	130.4	169.9	208.2
102.5°	40.8	17.1	4.0	1.3	6.6	23.7	50.1	83.0	117.2	155.5	192.3
105°	35.6	14.5	4.0	1.3	5.3	21.1	44.8	73.8	108.0	142.3	177.9
107.5°	30.3	11.9	2.6	1.3	4.0	17.1	39.5	67.2	97.5	130.4	163.4
110°	26.3	10.5	2.6	1.3	4.0	15.8	34.3	60.6	88.3	118.6	150.2

TEST NUMBER: P1214184

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	22.4	7.9	2.6	1.3	2.6	13.2	30.3	54.0	80.4	108.0	138.3
115°	19.8	6.6	1.3	1.3	2.6	11.9	27.7	48.7	72.5	98.8	126.5
117.5°	15.8	5.3	1.3	1.3	1.3	9.2	23.7	43.5	65.9	90.9	115.9
120°	13.2	5.3	1.3	1.3	1.3	7.9	21.1	38.2	59.3	81.7	105.4
122.5°	11.9	4.0	1.3	1.3	1.3	6.6	18.4	34.3	52.7	73.8	96.2
125°	10.5	4.0	1.3	1.3	1.3	5.3	15.8	30.3	47.4	65.9	86.9
127.5°	7.9	4.0	1.3	1.3	1.3	4.0	14.5	26.3	42.2	59.3	77.7
130°	6.6	2.6	1.3	1.3	1.3	4.0	11.9	23.7	36.9	52.7	69.8
132.5°	5.3	2.6	1.3	1.3	1.3	2.6	9.2	18.4	31.6	46.1	61.9
135°	5.3	2.6	1.3	1.3	1.3	2.6	6.6	15.8	26.3	39.5	52.7
137.5°	5.3	1.3	1.3	1.3	1.3	2.6	5.3	11.9	21.1	31.6	43.5
140°	4.0	1.3	1.3	1.3	1.3	1.3	4.0	9.2	17.1	26.3	36.9
142.5°	4.0	1.3	1.3	1.3	1.3	1.3	4.0	6.6	13.2	21.1	29.0
145°	2.6	1.3	1.3	1.3	1.3	1.3	2.6	5.3	10.5	15.8	23.7
147.5°	2.6	1.3	1.3	1.3	1.3	1.3	2.6	4.0	7.9	13.2	18.4
150°	2.6	1.3	1.3	1.3	1.3	1.3	2.6	4.0	5.3	9.2	14.5
152.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	4.0	6.6	9.2
155°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	4.0	5.3	6.6
157.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	4.0	5.3
160°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	4.0
162.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6
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: P1214184

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9
2.5°	1252.9	1243.6	1246.3	1245.0	1247.6	1251.5	1251.5	1250.2	1250.2	1247.6	1245.0
5°	1250.2	1241.0	1245.0	1243.6	1246.3	1250.2	1250.2	1248.9	1248.9	1245.0	1243.6
7.5°	1242.3	1235.7	1238.4	1238.4	1241.0	1245.0	1245.0	1243.6	1243.6	1239.7	1238.4
10°	1234.4	1226.5	1230.5	1230.5	1233.1	1238.4	1238.4	1237.0	1237.0	1233.1	1231.8
12.5°	1221.2	1213.3	1219.9	1221.2	1223.9	1229.1	1227.8	1227.8	1227.8	1223.9	1222.6
15°	1205.4	1200.2	1206.7	1208.1	1212.0	1218.6	1218.6	1218.6	1218.6	1214.7	1213.3
17.5°	1188.3	1184.4	1190.9	1193.6	1198.8	1205.4	1205.4	1206.7	1208.1	1205.4	1204.1
20°	1168.5	1165.9	1172.5	1177.8	1185.7	1192.3	1194.9	1196.2	1198.8	1196.2	1194.9
22.5°	1146.1	1146.1	1155.4	1160.6	1169.9	1176.4	1180.4	1184.4	1187.0	1184.4	1183.0
25°	1121.1	1125.1	1134.3	1143.5	1154.1	1160.6	1164.6	1169.9	1172.5	1171.2	1169.9
27.5°	1097.4	1102.7	1114.5	1123.8	1133.0	1143.5	1147.5	1154.1	1156.7	1156.7	1155.4
30°	1069.7	1077.6	1090.8	1101.4	1113.2	1123.8	1129.0	1135.6	1139.6	1136.9	1138.2
32.5°	1043.4	1056.6	1067.1	1079.0	1092.1	1102.7	1109.3	1117.2	1121.1	1119.8	1121.1
35°	1014.4	1027.6	1042.1	1053.9	1069.7	1080.3	1089.5	1096.1	1101.4	1100.0	1100.0
37.5°	982.8	999.9	1014.4	1030.2	1044.7	1056.6	1065.8	1073.7	1079.0	1079.0	1079.0
40°	952.5	970.9	985.4	1003.9	1022.3	1032.9	1043.4	1051.3	1056.6	1057.9	1059.2
42.5°	919.6	939.3	956.4	976.2	994.6	1007.8	1019.7	1028.9	1034.2	1036.8	1035.5
45°	889.3	907.7	927.5	949.9	967.0	980.2	994.6	1005.2	1010.5	1011.8	1013.1
47.5°	855.0	876.1	898.5	920.9	938.0	955.1	968.3	978.8	984.1	988.1	988.1
50°	822.1	844.5	869.5	893.2	911.6	928.8	941.9	953.8	960.4	963.0	964.3
52.5°	791.8	812.8	839.2	862.9	881.3	898.5	915.6	928.8	935.4	938.0	938.0
55°	754.9	781.2	810.2	832.6	852.4	872.1	889.3	902.4	909.0	913.0	915.6
57.5°	720.6	748.3	778.6	802.3	826.0	844.5	860.3	877.4	882.7	887.9	889.3
60°	687.7	715.4	744.3	770.7	794.4	814.2	832.6	847.1	856.3	859.0	861.6
62.5°	653.4	682.4	712.7	739.1	764.1	787.8	804.9	818.1	828.7	832.6	835.2
65°	620.5	650.8	681.1	708.8	735.1	758.8	776.0	789.1	799.7	806.3	807.6
67.5°	584.9	617.9	649.5	678.5	704.8	729.8	747.0	760.1	770.7	778.6	779.9
70°	552.0	586.2	617.9	649.5	675.8	700.9	719.3	732.5	744.3	749.6	752.2
72.5°	520.4	555.9	588.9	620.5	646.8	671.9	691.6	704.8	716.7	723.3	724.6
75°	490.1	525.6	561.2	591.5	619.2	644.2	664.0	678.5	689.0	695.6	698.2
77.5°	459.8	496.7	532.2	562.5	591.5	616.5	633.7	650.8	661.3	669.2	669.2
80°	429.5	467.7	504.6	534.9	563.9	586.2	606.0	623.1	633.7	641.6	641.6
82.5°	403.1	440.0	475.6	505.9	534.9	559.9	579.7	595.5	607.3	612.6	613.9
85°	372.8	413.7	446.6	479.5	507.2	530.9	550.7	567.8	578.3	583.6	586.2
87.5°	347.8	387.3	422.9	451.9	479.5	503.3	525.6	540.1	550.7	557.3	559.9
90°	324.1	362.3	397.9	426.8	455.8	478.2	499.3	513.8	525.6	530.9	533.6
92.5°	303.0	341.2	375.5	404.4	432.1	457.1	476.9	491.4	501.9	507.2	511.2
95°	283.2	320.1	353.1	384.7	411.0	433.4	454.5	469.0	480.9	484.8	488.8
97.5°	263.5	299.1	332.0	362.3	390.0	411.0	430.8	445.3	454.5	461.1	465.0
100°	246.4	280.6	312.2	341.2	367.6	387.3	408.4	421.6	430.8	436.1	441.3
102.5°	227.9	262.2	292.5	320.1	347.8	366.2	386.0	399.2	407.1	416.3	416.3
105°	212.1	243.7	274.0	300.4	324.1	346.5	363.6	376.8	386.0	392.6	392.6
107.5°	195.0	226.6	255.6	283.2	305.6	326.7	342.5	354.4	364.9	368.9	372.8
110°	181.8	209.5	238.5	264.8	285.9	305.6	321.4	334.6	343.8	347.8	350.4

TEST NUMBER: P1214184

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	166.0	195.0	221.3	246.4	267.4	285.9	301.7	312.2	321.4	326.7	328.0
115°	152.8	180.5	204.2	227.9	250.3	266.1	280.6	291.1	300.4	304.3	307.0
117.5°	141.0	166.0	189.7	209.5	230.5	247.7	262.2	271.4	279.3	284.6	287.2
120°	129.1	152.8	173.9	193.7	213.4	229.2	242.4	251.6	260.8	264.8	264.8
122.5°	117.2	139.6	159.4	177.9	196.3	210.8	225.3	233.2	241.1	245.0	245.0
125°	106.7	127.8	146.2	163.4	180.5	193.7	205.5	214.7	222.6	225.3	225.3
127.5°	96.2	115.9	133.1	148.9	163.4	176.5	188.4	197.6	204.2	206.8	206.8
130°	86.9	104.1	119.9	135.7	150.2	160.7	172.6	180.5	184.4	188.4	189.7
132.5°	77.7	93.5	108.0	121.2	135.7	146.2	155.5	163.4	167.3	171.3	172.6
135°	68.5	83.0	96.2	109.3	121.2	131.7	139.6	146.2	151.5	154.1	155.5
137.5°	58.0	73.8	85.6	96.2	109.3	117.2	126.5	130.4	135.7	138.3	138.3
140°	48.7	60.6	73.8	84.3	94.9	102.8	110.7	117.2	121.2	122.5	122.5
142.5°	39.5	50.1	60.6	73.8	83.0	89.6	97.5	102.8	105.4	106.7	108.0
145°	31.6	39.5	48.7	60.6	71.1	79.0	83.0	88.3	90.9	92.2	93.5
147.5°	23.7	31.6	39.5	47.4	58.0	65.9	69.8	75.1	77.7	79.0	79.0
150°	18.4	23.7	29.0	36.9	44.8	54.0	59.3	63.2	64.6	65.9	65.9
152.5°	13.2	18.4	22.4	27.7	32.9	40.8	48.7	51.4	52.7	54.0	54.0
155°	9.2	13.2	15.8	19.8	23.7	30.3	36.9	40.8	42.2	43.5	43.5
157.5°	6.6	9.2	10.5	14.5	17.1	19.8	25.0	31.6	32.9	32.9	32.9
160°	4.0	5.3	6.6	9.2	10.5	13.2	15.8	19.8	23.7	23.7	23.7
162.5°	2.6	4.0	4.0	5.3	5.3	7.9	9.2	10.5	14.5	15.8	15.8
165°	1.3	2.6	2.6	2.6	2.6	2.6	4.0	4.0	6.6	7.9	7.9
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: P1214184

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9
2.5°	1246.3	1248.9	1247.6	1247.6	1247.6	1250.2	1247.6	1235.7	1238.4	1241.0	1243.6
5°	1245.0	1246.3	1246.3	1245.0	1245.0	1247.6	1245.0	1233.1	1235.7	1238.4	1239.7
7.5°	1239.7	1241.0	1241.0	1241.0	1239.7	1242.3	1238.4	1227.8	1227.8	1230.5	1231.8
10°	1233.1	1235.7	1234.4	1233.1	1233.1	1233.1	1230.5	1218.6	1218.6	1219.9	1221.2
12.5°	1225.2	1225.2	1225.2	1223.9	1222.6	1222.6	1219.9	1208.1	1206.7	1209.4	1208.1
15°	1214.7	1217.3	1214.7	1213.3	1210.7	1210.7	1206.7	1194.9	1192.3	1193.6	1192.3
17.5°	1205.4	1206.7	1204.1	1201.5	1198.8	1197.5	1193.6	1180.4	1176.4	1177.8	1175.1
20°	1196.2	1196.2	1193.6	1190.9	1187.0	1183.0	1177.8	1164.6	1158.0	1158.0	1152.7
22.5°	1184.4	1184.4	1181.7	1177.8	1173.8	1168.5	1163.3	1150.1	1139.6	1136.9	1133.0
25°	1171.2	1169.9	1168.5	1164.6	1156.7	1151.4	1146.1	1131.7	1119.8	1114.5	1107.9
27.5°	1155.4	1155.4	1151.4	1147.5	1139.6	1133.0	1126.4	1113.2	1097.4	1090.8	1081.6
30°	1138.2	1138.2	1134.3	1129.0	1121.1	1113.2	1105.3	1089.5	1073.7	1064.5	1053.9
32.5°	1121.1	1119.8	1115.8	1110.6	1102.7	1090.8	1084.2	1068.4	1050.0	1039.4	1024.9
35°	1100.0	1098.7	1094.8	1088.2	1077.6	1068.4	1057.9	1043.4	1022.3	1009.1	993.3
37.5°	1079.0	1077.6	1075.0	1065.8	1055.2	1044.7	1031.5	1017.0	997.3	980.2	964.3
40°	1057.9	1056.6	1051.3	1044.7	1031.5	1018.4	1005.2	990.7	969.6	949.9	932.7
42.5°	1035.5	1034.2	1027.6	1019.7	1005.2	992.0	976.2	960.4	939.3	915.6	898.5
45°	1013.1	1010.5	1003.9	994.6	978.8	964.3	948.5	930.1	909.0	886.6	864.2
47.5°	989.4	985.4	978.8	965.7	952.5	936.7	918.2	898.5	877.4	852.4	828.7
50°	963.0	960.4	952.5	940.6	924.8	909.0	887.9	868.2	843.1	819.4	790.4
52.5°	938.0	932.7	926.1	913.0	897.2	880.0	857.6	833.9	808.9	786.5	756.2
55°	911.6	909.0	899.8	889.3	869.5	849.7	828.7	803.6	776.0	749.6	720.6
57.5°	886.6	881.3	873.4	859.0	841.8	822.1	799.7	773.3	743.0	715.4	683.7
60°	861.6	853.7	844.5	831.3	812.8	791.8	768.1	740.4	710.1	679.8	646.8
62.5°	833.9	827.3	816.8	803.6	785.2	762.8	737.8	708.8	679.8	648.2	612.6
65°	806.3	799.7	789.1	776.0	757.5	732.5	706.1	677.1	644.2	613.9	575.7
67.5°	778.6	772.0	760.1	745.7	727.2	703.5	675.8	645.5	612.6	579.7	540.1
70°	750.9	743.0	732.5	716.7	698.2	673.2	645.5	613.9	581.0	545.4	505.9
72.5°	723.3	716.7	703.5	689.0	669.2	644.2	616.5	584.9	550.7	513.8	474.3
75°	695.6	687.7	678.5	661.3	640.3	616.5	587.6	555.9	519.1	483.5	442.7
77.5°	667.9	661.3	649.5	632.4	612.6	587.6	558.6	527.0	490.1	453.2	409.7
80°	640.3	632.4	623.1	607.3	584.9	559.9	529.6	498.0	461.1	422.9	379.4
82.5°	612.6	604.7	594.2	578.3	557.3	532.2	503.3	469.0	432.1	392.6	351.7
85°	584.9	578.3	566.5	550.7	528.3	503.3	474.3	444.0	404.4	364.9	324.1
87.5°	557.3	550.7	538.8	523.0	501.9	476.9	447.9	416.3	378.1	341.2	296.4
90°	530.9	525.6	513.8	498.0	476.9	451.9	425.5	391.3	354.4	317.5	275.3
92.5°	507.2	501.9	491.4	475.6	457.1	429.5	403.1	370.2	333.3	295.1	254.3
95°	486.1	479.5	469.0	454.5	432.1	408.4	382.0	349.1	313.5	275.3	235.8
97.5°	462.4	455.8	445.3	429.5	411.0	386.0	359.7	328.0	292.5	256.9	217.4
100°	438.7	432.1	420.3	407.1	388.6	363.6	338.6	307.0	274.0	239.8	201.6
102.5°	415.0	408.4	397.9	384.7	366.2	343.8	318.8	288.5	255.6	221.3	185.8
105°	392.6	386.0	375.5	362.3	345.2	322.8	296.4	270.1	238.5	205.5	171.3
107.5°	370.2	363.6	354.4	341.2	324.1	303.0	278.0	250.3	221.3	189.7	156.8
110°	347.8	342.5	332.0	320.1	303.0	281.9	259.5	233.2	204.2	175.2	143.6

TEST NUMBER: P1214184

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	326.7	321.4	310.9	297.7	283.2	263.5	241.1	216.1	188.4	160.7	130.4
115°	305.6	299.1	289.8	278.0	263.5	245.0	224.0	201.6	173.9	147.6	119.9
117.5°	284.6	279.3	270.1	258.2	245.0	226.6	206.8	185.8	159.4	134.4	109.3
120°	263.5	259.5	250.3	239.8	226.6	209.5	191.0	169.9	146.2	122.5	98.8
122.5°	243.7	239.8	230.5	221.3	208.2	192.3	175.2	155.5	134.4	112.0	90.9
125°	225.3	220.0	212.1	202.9	191.0	176.5	159.4	141.0	121.2	101.4	81.7
127.5°	205.5	201.6	196.3	185.8	173.9	160.7	144.9	129.1	110.7	92.2	73.8
130°	189.7	184.4	177.9	169.9	159.4	146.2	131.7	115.9	100.1	83.0	64.6
132.5°	171.3	166.0	160.7	152.8	143.6	131.7	118.6	104.1	89.6	73.8	58.0
135°	154.1	150.2	144.9	137.0	127.8	118.6	105.4	92.2	79.0	64.6	51.4
137.5°	138.3	134.4	129.1	123.8	114.6	105.4	93.5	81.7	69.8	56.6	44.8
140°	122.5	119.9	114.6	109.3	101.4	92.2	81.7	71.1	60.6	48.7	38.2
142.5°	106.7	104.1	100.1	94.9	88.3	80.4	71.1	61.9	51.4	42.2	32.9
145°	92.2	90.9	86.9	81.7	76.4	68.5	60.6	52.7	43.5	35.6	26.3
147.5°	77.7	76.4	73.8	69.8	64.6	58.0	51.4	43.5	36.9	29.0	21.1
150°	64.6	63.2	61.9	56.6	54.0	47.4	42.2	35.6	30.3	22.4	17.1
152.5°	52.7	52.7	50.1	46.1	43.5	38.2	34.3	29.0	23.7	18.4	13.2
155°	42.2	40.8	39.5	36.9	34.3	30.3	26.3	22.4	18.4	13.2	9.2
157.5°	32.9	31.6	30.3	27.7	25.0	23.7	19.8	15.8	11.9	9.2	6.6
160°	23.7	22.4	21.1	19.8	18.4	15.8	13.2	10.5	7.9	5.3	4.0
162.5°	15.8	14.5	14.5	13.2	11.9	9.2	7.9	6.6	5.3	4.0	2.6
165°	7.9	7.9	6.6	6.6	5.3	4.0	4.0	4.0	2.6	2.6	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: P1214184

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9
2.5°	1242.3	1242.3	1247.6	1246.3	1242.3	1250.2	1259.4
5°	1238.4	1238.4	1242.3	1242.3	1238.4	1246.3	1254.2
7.5°	1231.8	1230.5	1234.4	1234.4	1229.1	1235.7	1245.0
10°	1219.9	1218.6	1222.6	1222.6	1217.3	1223.9	1231.8
12.5°	1206.7	1204.1	1208.1	1206.7	1201.5	1208.1	1216.0
15°	1189.6	1188.3	1190.9	1188.3	1183.0	1189.6	1197.5
17.5°	1172.5	1168.5	1169.9	1169.9	1160.6	1167.2	1173.8
20°	1150.1	1144.8	1146.1	1144.8	1138.2	1142.2	1150.1
22.5°	1127.7	1119.8	1119.8	1118.5	1110.6	1115.8	1122.4
25°	1100.0	1090.8	1090.8	1089.5	1080.3	1084.2	1090.8
27.5°	1072.4	1063.2	1059.2	1057.9	1048.7	1048.7	1057.9
30°	1043.4	1030.2	1027.6	1023.6	1014.4	1014.4	1022.3
32.5°	1015.7	997.3	992.0	986.7	977.5	976.2	985.4
35°	978.8	964.3	955.1	949.9	939.3	936.7	944.6
37.5°	948.5	930.1	916.9	910.3	899.8	895.8	906.4
40°	915.6	895.8	878.7	874.8	859.0	853.7	862.9
42.5°	878.7	857.6	840.5	832.6	820.7	815.5	816.8
45°	841.8	819.4	801.0	790.4	778.6	769.4	774.6
47.5°	803.6	783.9	761.5	745.7	731.2	724.6	727.2
50°	765.4	741.7	720.6	703.5	686.4	678.5	683.7
52.5°	727.2	702.2	678.5	660.0	640.3	632.4	633.7
55°	690.3	664.0	636.3	616.5	598.1	586.2	583.6
57.5°	653.4	624.5	595.5	573.1	549.4	538.8	534.9
60°	613.9	583.6	553.3	527.0	501.9	490.1	484.8
62.5°	577.0	544.1	509.8	482.2	457.1	441.3	437.4
65°	541.5	503.3	469.0	437.4	409.7	392.6	387.3
67.5°	503.3	463.7	426.8	392.6	366.2	343.8	341.2
70°	467.7	425.5	384.7	349.1	320.1	297.7	287.2
72.5°	432.1	388.6	346.5	308.3	271.4	250.3	242.4
75°	397.9	353.1	308.3	268.8	227.9	202.9	195.0
77.5°	366.2	320.1	272.7	229.2	191.0	159.4	148.9
80°	335.9	288.5	238.5	193.7	152.8	118.6	106.7
82.5°	304.3	259.5	208.2	160.7	118.6	83.0	68.5
85°	276.7	231.9	180.5	133.1	90.9	52.7	36.9
87.5°	254.3	205.5	159.4	112.0	68.5	30.3	10.5
90°	231.9	184.4	138.3	92.2	51.4	17.1	1.3
92.5°	212.1	167.3	121.2	79.0	39.5	11.9	1.3
95°	193.7	150.2	106.7	65.9	31.6	7.9	1.3
97.5°	176.5	135.7	94.9	56.6	26.3	6.6	1.3
100°	162.0	122.5	84.3	50.1	22.4	5.3	1.3
102.5°	147.6	110.7	75.1	43.5	19.8	4.0	1.3
105°	135.7	100.1	67.2	39.5	17.1	4.0	1.3
107.5°	123.8	90.9	60.6	34.3	14.5	2.6	1.3
110°	112.0	83.0	54.0	30.3	13.2	2.6	1.3



TEST NUMBER: P1214184

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	102.8	75.1	48.7	27.7	10.5	2.6	1.3
115°	93.5	67.2	43.5	23.7	9.2	1.3	1.3
117.5°	84.3	60.6	38.2	21.1	7.9	1.3	1.3
120°	76.4	54.0	34.3	18.4	6.6	1.3	1.3
122.5°	68.5	48.7	30.3	15.8	5.3	1.3	1.3
125°	61.9	43.5	26.3	13.2	4.0	1.3	1.3
127.5°	55.3	38.2	23.7	11.9	4.0	1.3	1.3
130°	48.7	34.3	19.8	9.2	2.6	1.3	1.3
132.5°	43.5	29.0	17.1	7.9	2.6	1.3	1.3
135°	38.2	25.0	14.5	5.3	2.6	1.3	1.3
137.5°	32.9	21.1	11.9	4.0	1.3	1.3	1.3
140°	27.7	18.4	9.2	4.0	1.3	1.3	1.3
142.5°	23.7	14.5	6.6	2.6	1.3	1.3	1.3
145°	18.4	11.9	5.3	2.6	1.3	1.3	1.3
147.5°	14.5	9.2	4.0	2.6	1.3	1.3	1.3
150°	10.5	6.6	4.0	1.3	1.3	1.3	1.3
152.5°	7.9	5.3	2.6	1.3	1.3	1.3	1.3
155°	5.3	4.0	2.6	1.3	1.3	1.3	1.3
157.5°	4.0	2.6	1.3	1.3	1.3	1.3	1.3
160°	2.6	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)