

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8SNLED-LD5-61SL-LW-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33520)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-61SL-LW-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

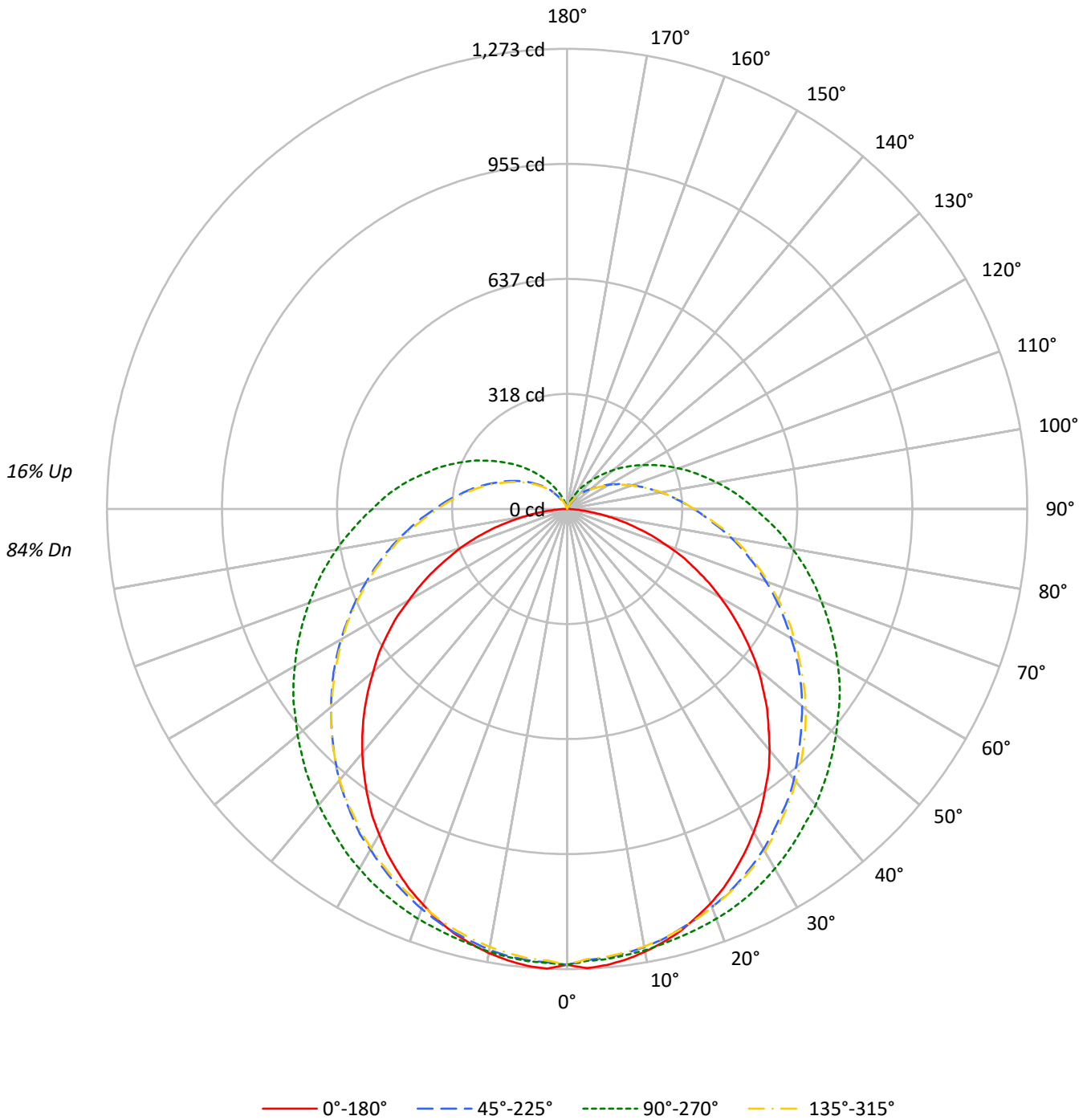
Lumens per Lamp: N/A
Luminaire Lumens: 5478.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 50
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: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	0
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°	5095	5095	5095	5095
5°	5129	4910	5140	4931
10°	5088	4770	5105	4786
15°	5036	4651	5058	4656
20°	4964	4563	4981	4563
25°	4874	4486	4904	4481
30°	4772	4407	4809	4407
35°	4653	4333	4705	4338
40°	4536	4289	4591	4289
45°	4400	4244	4467	4249
50°	4260	4217	4317	4228
55°	4060	4221	4188	4239
60°	3851	4234	3977	4259
65°	3617	4276	3777	4318
70°	3284	4355	3541	4417
75°	2903	4497	3179	4583
80°	2302	4708	2616	4817
85°	1463	5046	1833	5187



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	2.2
10°-20°	343.3	6.3
20°-30°	526.3	9.6
30°-40°	649.3	11.9
40°-50°	704.5	12.9
50°-60°	694.3	12.7
60°-70°	627.8	11.5
70°-80°	523.0	9.5
80°-90°	405.1	7.4
90°-100°	307.2	5.6
100°-110°	227.3	4.2
110°-120°	158.1	2.9
120°-130°	100.9	1.8
130°-140°	56.6	1.0
140°-150°	25.9	0.5
150°-160°	8.0	0.1
160°-170°	1.0	0.0
170°-180°	0.0	0.0
0°-30°	989.0	18.1
0°-40°	1638.4	29.9
0°-60°	3037.1	55.4
0°-90°	4592.9	83.8
90°-120°	692.7	12.6
90°-150°	876.0	16.0
90°-180°	885.0	16.2
0°-180°	5478.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1261	1261	1261	1261	1261	
5°	1266	1250	1269	1256	1266	120
15°	1209	1224	1214	1225	1209	341
25°	1101	1182	1108	1181	1101	507
35°	954	1109	964	1111	954	597
45°	782	1022	794	1023	782	602
55°	589	920	608	924	589	527
65°	391	807	408	815	391	388
75°	197	692	216	705	197	208
85°	37	576	47	592	37	45
90°	1	519	3	539	1	2
95°	1	471	1	493	1	1
105°	1	374	1	396	1	1
115°	1	285	1	310	1	1
125°	1	205	1	227	1	1
135°	1	133	1	157	1	1
145°	1	77	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	0



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9
2.5°	1271.5	1271.5	1270.2	1267.5	1268.9	1272.8	1270.2	1263.5	1259.5	1248.9	1251.6
5°	1266.2	1266.2	1264.9	1262.2	1263.5	1268.9	1266.2	1260.9	1255.6	1246.2	1250.2
7.5°	1256.9	1256.9	1255.6	1252.9	1255.6	1260.9	1258.2	1252.9	1248.9	1239.6	1243.6
10°	1243.6	1244.9	1243.6	1239.6	1244.9	1250.2	1248.9	1242.3	1238.3	1230.3	1234.3
12.5°	1227.6	1229.0	1227.6	1226.3	1229.0	1236.9	1234.3	1229.0	1226.3	1219.6	1223.6
15°	1209.0	1210.3	1207.7	1207.7	1210.3	1218.3	1218.3	1213.0	1210.3	1203.7	1211.7
17.5°	1185.1	1186.4	1185.1	1185.1	1187.7	1195.7	1197.0	1194.4	1191.7	1189.1	1197.0
20°	1161.1	1159.8	1159.8	1158.5	1163.8	1175.8	1174.4	1174.4	1171.8	1171.8	1181.1
22.5°	1133.2	1133.2	1131.9	1131.9	1138.5	1149.2	1149.2	1151.8	1149.2	1154.5	1162.5
25°	1101.3	1102.6	1101.3	1103.9	1109.3	1121.2	1122.6	1126.5	1127.9	1133.2	1142.5
27.5°	1068.0	1069.3	1068.0	1070.7	1080.0	1089.3	1096.0	1101.3	1102.6	1110.6	1122.6
30°	1032.1	1032.1	1033.4	1036.1	1046.7	1061.4	1066.7	1073.3	1073.3	1086.6	1098.6
32.5°	994.9	994.9	994.9	1000.2	1012.2	1029.4	1036.1	1044.1	1046.7	1060.0	1073.3
35°	953.6	955.0	955.0	959.0	974.9	992.2	1001.5	1010.8	1016.1	1032.1	1045.4
37.5°	915.1	917.7	913.7	919.1	941.7	956.3	966.9	976.2	985.6	1006.8	1017.5
40°	871.2	873.8	872.5	883.1	901.8	920.4	932.4	941.7	955.0	976.2	988.2
42.5°	824.6	827.3	829.9	841.9	861.9	880.5	895.1	907.1	923.0	941.7	961.6
45°	782.1	782.1	786.1	800.7	822.0	841.9	859.2	872.5	891.1	911.1	931.0
47.5°	734.2	735.5	740.8	758.1	780.7	804.7	820.6	837.9	857.9	879.2	901.8
50°	690.3	690.3	698.3	716.9	738.2	764.8	782.1	802.0	823.3	848.6	871.2
52.5°	639.7	642.4	654.4	671.7	699.6	723.5	743.5	764.8	790.0	816.6	841.9
55°	589.2	594.5	603.8	627.8	657.0	679.6	703.6	730.2	754.1	783.4	812.7
57.5°	540.0	544.0	558.6	582.6	613.1	641.1	666.3	691.6	720.9	750.1	780.7
60°	489.5	494.8	512.1	536.0	569.3	598.5	627.8	654.4	685.0	715.6	747.5
62.5°	441.6	445.6	465.5	493.4	526.7	558.6	587.9	619.8	653.0	682.3	714.2
65°	391.0	397.7	420.3	445.6	484.1	516.1	549.3	583.9	618.5	650.4	681.0
67.5°	344.5	348.5	372.4	401.7	440.2	476.2	510.7	548.0	583.9	617.1	647.7
70°	289.9	303.2	327.2	357.8	399.0	436.3	473.5	512.1	550.6	585.2	614.5
72.5°	244.7	255.4	282.0	315.2	355.1	399.0	437.6	478.8	517.4	553.3	583.9
75°	196.8	207.5	238.1	275.3	316.5	363.1	403.0	445.6	485.5	521.4	553.3
77.5°	150.3	163.6	196.8	235.4	280.6	328.5	369.8	412.3	453.5	492.1	524.0
80°	107.7	122.4	158.3	202.2	246.1	293.9	339.2	381.7	423.0	461.5	494.8
82.5°	69.2	85.1	123.7	167.6	214.1	262.0	308.6	351.1	392.4	430.9	465.5
85°	37.2	54.5	94.4	138.3	184.9	232.8	279.3	324.5	364.4	400.3	437.6
87.5°	10.6	31.9	70.5	114.4	162.3	206.2	251.4	296.6	336.5	375.1	408.3
90°	1.3	18.6	53.2	94.4	141.0	183.5	228.8	271.3	311.2	349.8	383.1
92.5°	1.3	12.0	41.2	78.5	121.0	164.9	210.1	251.4	288.6	327.2	360.4
95°	1.3	9.3	33.3	66.5	106.4	147.6	190.2	230.1	268.7	304.6	337.8
97.5°	1.3	6.7	26.6	57.2	93.1	131.7	172.9	212.8	250.0	284.6	315.2
100°	1.3	5.3	21.3	49.2	81.1	118.4	155.6	194.2	230.1	263.3	295.3
102.5°	1.3	4.0	18.6	41.2	71.8	105.1	141.0	176.9	211.5	243.4	275.3
105°	1.3	4.0	16.0	35.9	63.8	94.4	127.7	162.3	194.2	224.8	254.0
107.5°	1.3	2.7	13.3	30.6	55.9	85.1	115.7	149.0	178.2	207.5	235.4
110°	1.3	2.7	10.6	27.9	49.2	75.8	105.1	135.7	163.6	191.5	218.1



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CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.3	2.7	9.3	23.9	42.6	67.8	94.4	122.4	149.0	176.9	200.8
115°	1.3	2.7	8.0	21.3	39.9	58.5	85.1	110.4	137.0	162.3	184.9
117.5°	1.3	2.7	6.7	17.3	34.6	53.2	74.5	99.8	123.7	147.6	168.9
120°	1.3	2.7	5.3	16.0	30.6	47.9	66.5	89.1	111.7	134.3	156.9
122.5°	1.3	1.3	5.3	13.3	26.6	42.6	61.2	78.5	99.8	121.0	141.0
125°	1.3	1.3	5.3	12.0	22.6	38.6	54.5	70.5	89.1	107.7	125.0
127.5°	1.3	1.3	4.0	9.3	20.0	33.3	47.9	65.2	78.5	95.8	113.1
130°	1.3	1.3	4.0	8.0	17.3	27.9	42.6	57.2	73.2	85.1	99.8
132.5°	1.3	1.3	4.0	6.7	13.3	22.6	35.9	49.2	63.8	77.1	89.1
135°	1.3	1.3	2.7	5.3	10.6	18.6	29.3	41.2	55.9	69.2	81.1
137.5°	1.3	1.3	2.7	5.3	8.0	16.0	22.6	33.3	46.6	58.5	70.5
140°	1.3	1.3	2.7	4.0	6.7	12.0	18.6	26.6	37.2	47.9	61.2
142.5°	1.3	1.3	1.3	4.0	5.3	9.3	14.6	21.3	29.3	38.6	49.2
145°	1.3	1.3	1.3	4.0	5.3	6.7	12.0	17.3	22.6	29.3	38.6
147.5°	1.3	1.3	1.3	2.7	4.0	5.3	9.3	13.3	17.3	22.6	27.9
150°	1.3	1.3	1.3	2.7	4.0	5.3	6.7	9.3	13.3	18.6	22.6
152.5°	1.3	1.3	1.3	2.7	2.7	4.0	5.3	6.7	9.3	13.3	16.0
155°	1.3	1.3	1.3	1.3	2.7	4.0	5.3	5.3	6.7	9.3	12.0
157.5°	1.3	1.3	1.3	1.3	2.7	2.7	4.0	4.0	5.3	5.3	8.0
160°	1.3	1.3	1.3	1.3	1.3	2.7	2.7	4.0	4.0	4.0	4.0
162.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.7	2.7	2.7	4.0	4.0
165°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.7	2.7	2.7
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°	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9
2.5°	1251.6	1252.9	1256.9	1256.9	1254.2	1254.2	1252.9	1251.6	1252.9	1255.6	1255.6
5°	1248.9	1250.2	1254.2	1255.6	1252.9	1251.6	1251.6	1250.2	1251.6	1254.2	1254.2
7.5°	1243.6	1244.9	1248.9	1250.2	1247.6	1247.6	1246.2	1244.9	1247.6	1248.9	1248.9
10°	1235.6	1236.9	1242.3	1243.6	1242.3	1240.9	1240.9	1239.6	1240.9	1243.6	1243.6
12.5°	1225.0	1227.6	1234.3	1234.3	1234.3	1232.9	1232.9	1231.6	1232.9	1235.6	1234.3
15°	1213.0	1218.3	1223.6	1226.3	1226.3	1226.3	1225.0	1223.6	1226.3	1227.6	1226.3
17.5°	1199.7	1206.3	1214.3	1217.0	1217.0	1218.3	1217.0	1215.7	1218.3	1218.3	1217.0
20°	1186.4	1193.0	1201.0	1203.7	1206.3	1207.7	1207.7	1206.3	1207.7	1209.0	1207.7
22.5°	1169.1	1177.1	1186.4	1190.4	1193.0	1195.7	1195.7	1195.7	1197.0	1198.4	1195.7
25°	1150.5	1159.8	1170.4	1174.4	1179.7	1181.1	1182.4	1182.4	1183.7	1185.1	1181.1
27.5°	1130.5	1141.2	1151.8	1158.5	1162.5	1165.1	1165.1	1166.4	1167.8	1169.1	1165.1
30°	1106.6	1122.6	1131.9	1137.2	1142.5	1146.5	1147.8	1149.2	1150.5	1151.8	1147.8
32.5°	1085.3	1098.6	1110.6	1117.2	1123.9	1129.2	1130.5	1130.5	1133.2	1133.2	1129.2
35°	1060.0	1076.0	1088.0	1094.6	1102.6	1106.6	1109.3	1109.3	1111.9	1111.9	1107.9
37.5°	1034.8	1050.7	1064.0	1072.0	1081.3	1086.6	1088.0	1088.0	1090.6	1090.6	1085.3
40°	1008.2	1025.5	1040.1	1049.4	1057.4	1064.0	1065.4	1069.3	1069.3	1068.0	1062.7
42.5°	981.6	997.5	1013.5	1024.1	1034.8	1041.4	1044.1	1045.4	1045.4	1044.1	1040.1
45°	952.3	970.9	985.6	998.9	1009.5	1016.1	1020.1	1021.5	1021.5	1018.8	1014.8
47.5°	924.4	943.0	957.6	972.3	982.9	990.9	994.9	996.2	994.9	993.5	989.5
50°	895.1	916.4	931.0	945.7	956.3	962.9	969.6	970.9	969.6	968.3	960.3
52.5°	864.5	887.1	903.1	917.7	929.7	937.7	943.0	944.3	944.3	941.7	936.3
55°	833.9	853.9	873.8	889.8	903.1	911.1	917.7	920.4	917.7	915.1	908.4
57.5°	806.0	824.6	844.6	861.9	875.2	885.8	891.1	893.8	891.1	887.1	880.5
60°	772.8	792.7	815.3	831.3	845.9	856.5	859.2	864.5	861.9	857.9	851.2
62.5°	740.8	764.8	784.7	804.7	816.6	828.6	833.9	836.6	833.9	829.9	823.3
65°	707.6	734.2	754.1	774.1	787.4	799.4	806.0	807.3	804.7	800.7	794.0
67.5°	677.0	702.3	723.5	744.8	756.8	768.8	775.4	778.1	775.4	770.1	763.4
70°	646.4	671.7	696.9	712.9	727.5	740.8	744.8	748.8	746.2	740.8	732.9
72.5°	615.8	642.4	667.7	683.6	699.6	711.6	716.9	720.9	718.2	712.9	703.6
75°	583.9	611.8	637.1	654.4	670.3	682.3	687.6	691.6	689.0	683.6	673.0
77.5°	554.6	582.6	606.5	625.1	641.1	651.7	661.0	662.4	659.7	654.4	643.7
80°	524.0	552.0	577.2	595.9	611.8	622.5	629.1	633.1	630.4	625.1	614.5
82.5°	497.4	522.7	548.0	566.6	582.6	595.9	601.2	605.2	603.8	595.9	587.9
85°	468.2	497.4	517.4	537.3	553.3	566.6	570.6	575.9	574.6	567.9	557.3
87.5°	438.9	468.2	492.1	512.1	526.7	537.3	544.0	546.6	545.3	538.7	526.7
90°	415.0	441.6	465.5	486.8	498.8	510.7	517.4	518.7	518.7	510.7	501.4
92.5°	392.4	417.6	441.6	461.5	476.2	486.8	492.1	494.8	493.4	486.8	476.2
95°	367.1	395.0	417.6	437.6	452.2	462.9	468.2	470.8	469.5	462.9	452.2
97.5°	345.8	371.1	393.7	412.3	426.9	437.6	442.9	445.6	445.6	438.9	428.3
100°	324.5	349.8	371.1	389.7	403.0	413.6	419.0	420.3	419.0	413.6	403.0
102.5°	303.2	327.2	348.5	365.8	380.4	389.7	395.0	396.4	396.4	389.7	379.1
105°	282.0	305.9	325.9	344.5	356.4	365.8	369.8	373.7	372.4	367.1	356.4
107.5°	262.0	286.0	304.6	321.9	333.8	343.1	347.1	351.1	349.8	344.5	333.8
110°	243.4	266.0	283.3	300.6	311.2	320.5	327.2	328.5	325.9	320.5	311.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	226.1	246.1	263.3	279.3	291.3	297.9	303.2	305.9	303.2	297.9	291.3
115°	207.5	227.4	244.7	259.4	270.0	278.0	282.0	284.6	282.0	276.6	270.0
117.5°	190.2	208.8	226.1	240.7	250.0	256.7	260.7	263.3	260.7	256.7	250.0
120°	175.6	191.5	207.5	220.8	231.4	236.7	240.7	243.4	242.1	236.7	230.1
122.5°	158.3	175.6	190.2	203.5	212.8	218.1	220.8	223.4	222.1	218.1	211.5
125°	143.6	158.3	172.9	184.9	194.2	199.5	202.2	204.8	203.5	199.5	191.5
127.5°	127.7	143.6	155.6	167.6	174.2	182.2	183.5	186.2	184.9	180.9	174.2
130°	115.7	127.7	139.7	150.3	158.3	163.6	166.3	167.6	164.9	162.3	155.6
132.5°	101.1	114.4	125.0	134.3	139.7	145.0	147.6	149.0	149.0	145.0	139.7
135°	90.4	99.8	109.1	118.4	123.7	129.0	131.7	133.0	131.7	129.0	123.7
137.5°	81.1	89.1	95.8	103.7	110.4	113.1	115.7	115.7	114.4	113.1	109.1
140°	70.5	79.8	86.5	91.8	97.1	98.4	101.1	101.1	99.8	98.4	95.8
142.5°	59.9	67.8	74.5	81.1	85.1	87.8	89.1	90.4	89.1	87.8	83.8
145°	47.9	57.2	63.8	67.8	73.2	74.5	75.8	77.1	75.8	74.5	70.5
147.5°	37.2	45.2	51.9	57.2	61.2	62.5	63.8	65.2	63.8	61.2	59.9
150°	26.6	33.3	41.2	46.6	49.2	51.9	51.9	51.9	53.2	50.5	47.9
152.5°	21.3	23.9	29.3	34.6	38.6	39.9	41.2	41.2	39.9	39.9	37.2
155°	14.6	17.3	21.3	25.3	29.3	30.6	31.9	31.9	30.6	30.6	29.3
157.5°	9.3	12.0	14.6	17.3	21.3	22.6	23.9	23.9	23.9	22.6	21.3
160°	5.3	6.7	8.0	10.6	13.3	14.6	16.0	16.0	16.0	16.0	14.6
162.5°	4.0	4.0	4.0	5.3	6.7	8.0	9.3	9.3	9.3	9.3	8.0
165°	2.7	2.7	2.7	2.7	2.7	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: P#

CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9
2.5°	1254.2	1254.2	1255.6	1252.9	1244.9	1246.2	1246.2	1251.6	1254.2	1255.6	1262.2
5°	1251.6	1251.6	1254.2	1250.2	1243.6	1243.6	1243.6	1248.9	1250.2	1252.9	1258.2
7.5°	1247.6	1247.6	1248.9	1244.9	1236.9	1236.9	1235.6	1240.9	1243.6	1244.9	1250.2
10°	1240.9	1240.9	1242.3	1238.3	1229.0	1229.0	1227.6	1231.6	1232.9	1235.6	1239.6
12.5°	1231.6	1231.6	1231.6	1227.6	1218.3	1217.0	1215.7	1219.6	1219.6	1221.0	1225.0
15°	1223.6	1221.0	1221.0	1217.0	1207.7	1205.0	1202.4	1203.7	1206.3	1205.0	1207.7
17.5°	1214.3	1211.7	1209.0	1205.0	1193.0	1189.1	1186.4	1187.7	1186.4	1185.1	1187.7
20°	1203.7	1199.7	1198.4	1191.7	1179.7	1173.1	1167.8	1165.1	1166.4	1162.5	1163.8
22.5°	1191.7	1186.4	1183.7	1175.8	1163.8	1155.8	1149.2	1143.8	1142.5	1137.2	1138.5
25°	1177.1	1170.4	1166.4	1159.8	1146.5	1137.2	1129.2	1121.2	1117.2	1110.6	1109.3
27.5°	1159.8	1153.1	1147.8	1141.2	1127.9	1115.9	1106.6	1096.0	1090.6	1082.6	1078.7
30°	1142.5	1134.5	1126.5	1121.2	1106.6	1093.3	1078.7	1069.3	1061.4	1052.1	1045.4
32.5°	1121.2	1113.2	1105.3	1097.3	1084.0	1068.0	1056.0	1041.4	1032.1	1021.5	1013.5
35°	1099.9	1089.3	1081.3	1070.7	1058.7	1040.1	1025.5	1010.8	998.9	986.9	977.6
37.5°	1076.0	1068.0	1056.0	1046.7	1032.1	1013.5	997.5	978.9	968.3	952.3	940.3
40°	1053.4	1044.1	1032.1	1020.1	1005.5	984.2	966.9	945.7	933.7	915.1	903.1
42.5°	1030.8	1017.5	1005.5	992.2	976.2	956.3	935.0	913.7	897.8	880.5	863.2
45°	1005.5	990.9	976.2	961.6	945.7	925.7	903.1	880.5	860.5	844.6	823.3
47.5°	978.9	964.3	947.0	931.0	913.7	893.8	869.8	845.9	824.6	806.0	783.4
50°	952.3	937.7	919.1	901.8	881.8	861.9	836.6	808.7	786.1	762.1	742.2
52.5°	924.4	909.7	892.5	869.8	848.6	828.6	802.0	772.8	747.5	727.5	702.3
55°	896.4	881.8	861.9	839.3	818.0	792.7	767.4	738.2	710.2	686.3	661.0
57.5°	867.2	853.9	831.3	812.7	786.1	759.5	732.9	704.9	674.3	646.4	617.1
60°	837.9	823.3	802.0	779.4	752.8	726.2	698.3	667.7	635.8	605.2	578.6
62.5°	811.3	792.7	772.8	748.8	720.9	695.6	663.7	630.4	598.5	566.6	534.7
65°	780.7	760.8	742.2	718.2	689.0	659.7	627.8	594.5	559.9	525.4	493.4
67.5°	750.1	730.2	710.2	686.3	655.7	625.1	591.9	558.6	520.0	486.8	449.6
70°	719.5	703.6	678.3	653.0	625.1	591.9	558.6	522.7	482.8	446.9	408.3
72.5°	689.0	673.0	647.7	621.1	594.5	559.9	524.0	488.1	450.9	409.7	368.4
75°	659.7	639.7	617.1	591.9	563.9	528.0	492.1	454.9	411.0	372.4	329.8
77.5°	631.8	613.1	590.5	562.6	532.0	497.4	460.2	421.6	377.7	336.5	289.9
80°	601.2	582.6	559.9	532.0	501.4	468.2	428.3	388.4	345.8	300.6	252.7
82.5°	571.9	554.6	529.4	504.1	470.8	437.6	397.7	357.8	312.6	268.7	222.1
85°	541.3	524.0	500.1	473.5	441.6	405.7	368.4	328.5	283.3	238.1	191.5
87.5°	514.7	494.8	470.8	444.2	412.3	377.7	341.8	299.3	255.4	211.5	163.6
90°	486.8	468.2	444.2	417.6	385.7	351.1	313.9	274.0	231.4	186.2	141.0
92.5°	462.9	442.9	420.3	393.7	361.8	328.5	291.3	251.4	210.1	166.3	122.4
95°	438.9	419.0	397.7	371.1	339.2	305.9	268.7	230.1	190.2	147.6	106.4
97.5°	412.3	395.0	373.7	348.5	316.5	284.6	248.7	211.5	172.9	131.7	93.1
100°	391.0	371.1	351.1	324.5	295.3	264.7	228.8	192.9	155.6	117.0	81.1
102.5°	367.1	348.5	328.5	303.2	274.0	243.4	210.1	175.6	141.0	105.1	70.5
105°	344.5	327.2	305.9	282.0	254.0	224.8	192.9	160.9	127.7	93.1	62.5
107.5°	321.9	304.6	284.6	262.0	235.4	206.2	176.9	145.0	114.4	83.8	55.9
110°	299.3	283.3	264.7	242.1	216.8	190.2	162.3	133.0	102.4	74.5	49.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	279.3	263.3	244.7	223.4	199.5	174.2	147.6	119.7	91.8	66.5	42.6
115°	259.4	244.7	226.1	207.5	183.5	159.6	134.3	107.7	82.5	59.9	37.2
117.5°	239.4	224.8	207.5	188.9	167.6	145.0	121.0	95.8	74.5	53.2	33.3
120°	219.5	206.2	190.2	172.9	154.3	131.7	107.7	86.5	66.5	46.6	29.3
122.5°	200.8	188.9	174.2	158.3	138.3	117.0	97.1	78.5	59.9	41.2	23.9
125°	183.5	171.6	158.3	142.3	123.7	105.1	87.8	70.5	51.9	35.9	20.0
127.5°	166.3	154.3	141.0	126.4	111.7	94.4	78.5	62.5	46.6	31.9	17.3
130°	149.0	138.3	126.4	114.4	99.8	83.8	70.5	54.5	39.9	25.3	14.6
132.5°	131.7	123.7	113.1	101.1	87.8	75.8	61.2	47.9	34.6	22.6	13.3
135°	117.0	109.1	99.8	89.1	78.5	66.5	53.2	41.2	29.3	18.6	10.6
137.5°	103.7	97.1	87.8	78.5	69.2	57.2	46.6	34.6	23.9	16.0	8.0
140°	91.8	85.1	77.1	67.8	59.9	49.2	38.6	27.9	21.3	13.3	6.7
142.5°	79.8	73.2	66.5	58.5	50.5	41.2	31.9	23.9	17.3	10.6	6.7
145°	67.8	62.5	55.9	49.2	41.2	33.3	26.6	20.0	13.3	8.0	5.3
147.5°	55.9	51.9	45.2	39.9	33.3	26.6	21.3	16.0	10.6	6.7	4.0
150°	45.2	41.2	35.9	30.6	26.6	21.3	17.3	12.0	8.0	6.7	4.0
152.5°	34.6	31.9	27.9	25.3	21.3	16.0	12.0	9.3	6.7	5.3	2.7
155°	27.9	25.3	22.6	18.6	16.0	12.0	9.3	6.7	5.3	4.0	2.7
157.5°	20.0	18.6	16.0	13.3	10.6	8.0	6.7	6.7	4.0	2.7	1.3
160°	13.3	12.0	10.6	8.0	6.7	6.7	5.3	4.0	2.7	2.7	1.3
162.5°	8.0	6.7	6.7	6.7	5.3	5.3	4.0	2.7	2.7	1.3	1.3
165°	5.3	5.3	5.3	4.0	4.0	4.0	2.7	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: P#

CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9
2.5°	1262.2	1258.2	1263.5	1272.8	1274.2	1272.8	1270.2	1274.2	1279.5	1278.2	1268.9
5°	1259.5	1254.2	1259.5	1268.9	1268.9	1267.5	1266.2	1270.2	1275.5	1274.2	1266.2
7.5°	1251.6	1246.2	1251.6	1259.5	1260.9	1258.2	1258.2	1262.2	1267.5	1266.2	1259.5
10°	1240.9	1235.6	1238.3	1247.6	1250.2	1247.6	1247.6	1251.6	1258.2	1256.9	1248.9
12.5°	1225.0	1221.0	1223.6	1231.6	1234.3	1232.9	1231.6	1236.9	1243.6	1243.6	1235.6
15°	1207.7	1202.4	1205.0	1214.3	1215.7	1213.0	1214.3	1218.3	1226.3	1226.3	1219.6
17.5°	1187.7	1181.1	1185.1	1191.7	1193.0	1193.0	1193.0	1198.4	1207.7	1206.3	1201.0
20°	1165.1	1155.8	1158.5	1165.1	1167.8	1167.8	1167.8	1177.1	1183.7	1183.7	1178.4
22.5°	1138.5	1131.9	1131.9	1138.5	1142.5	1141.2	1141.2	1149.2	1158.5	1157.1	1157.1
25°	1107.9	1102.6	1099.9	1107.9	1109.3	1110.6	1113.2	1121.2	1131.9	1131.9	1133.2
27.5°	1076.0	1070.7	1069.3	1076.0	1077.3	1078.7	1081.3	1090.6	1101.3	1102.6	1105.3
30°	1045.4	1037.4	1034.8	1040.1	1042.7	1044.1	1044.1	1058.7	1068.0	1072.0	1077.3
32.5°	1009.5	1001.5	994.9	1004.2	1005.5	1008.2	1009.5	1024.1	1034.8	1041.4	1049.4
35°	973.6	960.3	957.6	964.3	966.9	968.3	970.9	986.9	1001.5	1006.8	1017.5
37.5°	933.7	924.4	916.4	923.0	925.7	927.0	935.0	949.6	964.3	972.3	982.9
40°	896.4	884.5	877.8	881.8	884.5	885.8	895.1	911.1	928.4	937.7	951.0
42.5°	855.2	839.3	833.9	837.9	839.3	843.2	851.2	872.5	889.8	903.1	913.7
45°	814.0	802.0	790.0	794.0	795.4	798.0	810.0	832.6	851.2	867.2	879.2
47.5°	771.4	756.8	744.8	747.5	752.8	754.1	767.4	794.0	811.3	828.6	844.6
50°	728.9	708.9	699.6	699.6	702.3	708.9	726.2	752.8	771.4	791.4	808.7
52.5°	685.0	666.3	655.7	657.0	659.7	667.7	683.6	710.2	731.5	752.8	774.1
55°	641.1	621.1	610.5	607.8	610.5	621.1	639.7	667.7	689.0	714.2	736.8
57.5°	597.2	573.2	563.9	559.9	562.6	575.9	594.5	623.8	650.4	674.3	700.9
60°	549.3	530.7	514.7	505.4	512.1	529.4	549.3	579.9	607.8	634.4	663.7
62.5°	508.1	484.1	466.8	457.5	464.2	478.8	506.7	536.0	566.6	597.2	626.4
65°	461.5	437.6	417.6	408.3	415.0	432.3	460.2	492.1	525.4	556.0	590.5
67.5°	416.3	391.0	367.1	357.8	365.8	384.4	415.0	450.9	486.8	518.7	556.0
70°	372.4	344.5	319.2	312.6	317.9	343.1	372.4	408.3	445.6	482.8	521.4
72.5°	332.5	297.9	271.3	263.3	270.0	297.9	331.2	368.4	408.3	448.2	489.5
75°	286.0	254.0	224.8	215.5	223.4	248.7	289.9	329.8	372.4	415.0	453.5
77.5°	248.7	211.5	180.9	166.3	179.6	211.5	251.4	293.9	337.8	381.7	425.6
80°	210.1	171.6	138.3	122.4	137.0	171.6	211.5	258.0	307.2	351.1	391.0
82.5°	175.6	134.3	99.8	82.5	98.4	137.0	180.9	227.4	275.3	319.2	365.8
85°	143.6	101.1	65.2	46.6	69.2	103.7	150.3	198.2	247.4	292.6	337.8
87.5°	117.0	75.8	39.9	20.0	42.6	81.1	125.0	172.9	222.1	267.3	309.9
90°	95.8	54.5	21.3	2.7	25.3	61.2	103.7	150.3	196.8	243.4	286.0
92.5°	78.5	41.2	12.0	1.3	16.0	49.2	89.1	133.0	178.2	223.4	264.7
95°	65.2	31.9	8.0	1.3	12.0	38.6	75.8	118.4	160.9	204.8	246.1
97.5°	55.9	26.6	6.7	1.3	9.3	33.3	65.2	105.1	146.3	187.5	227.4
100°	47.9	21.3	5.3	1.3	8.0	27.9	57.2	93.1	131.7	171.6	210.1
102.5°	41.2	17.3	4.0	1.3	6.7	23.9	50.5	83.8	118.4	156.9	194.2
105°	35.9	14.6	4.0	1.3	5.3	21.3	45.2	74.5	109.1	143.6	179.6
107.5°	30.6	12.0	2.7	1.3	4.0	17.3	39.9	67.8	98.4	131.7	164.9
110°	26.6	10.6	2.7	1.3	4.0	16.0	34.6	61.2	89.1	119.7	151.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	22.6	8.0	2.7	1.3	2.7	13.3	30.6	54.5	81.1	109.1	139.7
115°	20.0	6.7	1.3	1.3	2.7	12.0	27.9	49.2	73.2	99.8	127.7
117.5°	16.0	5.3	1.3	1.3	1.3	9.3	23.9	43.9	66.5	91.8	117.0
120°	13.3	5.3	1.3	1.3	1.3	8.0	21.3	38.6	59.9	82.5	106.4
122.5°	12.0	4.0	1.3	1.3	1.3	6.7	18.6	34.6	53.2	74.5	97.1
125°	10.6	4.0	1.3	1.3	1.3	5.3	16.0	30.6	47.9	66.5	87.8
127.5°	8.0	4.0	1.3	1.3	1.3	4.0	14.6	26.6	42.6	59.9	78.5
130°	6.7	2.7	1.3	1.3	1.3	4.0	12.0	23.9	37.2	53.2	70.5
132.5°	5.3	2.7	1.3	1.3	1.3	2.7	9.3	18.6	31.9	46.6	62.5
135°	5.3	2.7	1.3	1.3	1.3	2.7	6.7	16.0	26.6	39.9	53.2
137.5°	5.3	1.3	1.3	1.3	1.3	2.7	5.3	12.0	21.3	31.9	43.9
140°	4.0	1.3	1.3	1.3	1.3	1.3	4.0	9.3	17.3	26.6	37.2
142.5°	4.0	1.3	1.3	1.3	1.3	1.3	4.0	6.7	13.3	21.3	29.3
145°	2.7	1.3	1.3	1.3	1.3	1.3	2.7	5.3	10.6	16.0	23.9
147.5°	2.7	1.3	1.3	1.3	1.3	1.3	2.7	4.0	8.0	13.3	18.6
150°	2.7	1.3	1.3	1.3	1.3	1.3	2.7	4.0	5.3	9.3	14.6
152.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.7	2.7	4.0	6.7	9.3
155°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.7	4.0	5.3	6.7
157.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.7	2.7	4.0	5.3
160°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.7	2.7	4.0
162.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.7	2.7
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: P#

CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9
2.5°	1264.9	1255.6	1258.2	1256.9	1259.5	1263.5	1263.5	1262.2	1262.2	1259.5	1256.9
5°	1262.2	1252.9	1256.9	1255.6	1258.2	1262.2	1262.2	1260.9	1260.9	1256.9	1255.6
7.5°	1254.2	1247.6	1250.2	1250.2	1252.9	1256.9	1256.9	1255.6	1255.6	1251.6	1250.2
10°	1246.2	1238.3	1242.3	1242.3	1244.9	1250.2	1250.2	1248.9	1248.9	1244.9	1243.6
12.5°	1232.9	1225.0	1231.6	1232.9	1235.6	1240.9	1239.6	1239.6	1239.6	1235.6	1234.3
15°	1217.0	1211.7	1218.3	1219.6	1223.6	1230.3	1230.3	1230.3	1230.3	1226.3	1225.0
17.5°	1199.7	1195.7	1202.4	1205.0	1210.3	1217.0	1217.0	1218.3	1219.6	1217.0	1215.7
20°	1179.7	1177.1	1183.7	1189.1	1197.0	1203.7	1206.3	1207.7	1210.3	1207.7	1206.3
22.5°	1157.1	1157.1	1166.4	1171.8	1181.1	1187.7	1191.7	1195.7	1198.4	1195.7	1194.4
25°	1131.9	1135.9	1145.2	1154.5	1165.1	1171.8	1175.8	1181.1	1183.7	1182.4	1181.1
27.5°	1107.9	1113.2	1125.2	1134.5	1143.8	1154.5	1158.5	1165.1	1167.8	1167.8	1166.4
30°	1080.0	1088.0	1101.3	1111.9	1123.9	1134.5	1139.8	1146.5	1150.5	1147.8	1149.2
32.5°	1053.4	1066.7	1077.3	1089.3	1102.6	1113.2	1119.9	1127.9	1131.9	1130.5	1131.9
35°	1024.1	1037.4	1052.1	1064.0	1080.0	1090.6	1099.9	1106.6	1111.9	1110.6	1110.6
37.5°	992.2	1009.5	1024.1	1040.1	1054.7	1066.7	1076.0	1084.0	1089.3	1089.3	1089.3
40°	961.6	980.2	994.9	1013.5	1032.1	1042.7	1053.4	1061.4	1066.7	1068.0	1069.3
42.5°	928.4	948.3	965.6	985.6	1004.2	1017.5	1029.4	1038.8	1044.1	1046.7	1045.4
45°	897.8	916.4	936.3	959.0	976.2	989.5	1004.2	1014.8	1020.1	1021.5	1022.8
47.5°	863.2	884.5	907.1	929.7	947.0	964.3	977.6	988.2	993.5	997.5	997.5
50°	829.9	852.6	877.8	901.8	920.4	937.7	951.0	962.9	969.6	972.3	973.6
52.5°	799.4	820.6	847.2	871.2	889.8	907.1	924.4	937.7	944.3	947.0	947.0
55°	762.1	788.7	818.0	840.6	860.5	880.5	897.8	911.1	917.7	921.7	924.4
57.5°	727.5	755.5	786.1	810.0	833.9	852.6	868.5	885.8	891.1	896.4	897.8
60°	694.3	722.2	751.5	778.1	802.0	822.0	840.6	855.2	864.5	867.2	869.8
62.5°	659.7	689.0	719.5	746.2	771.4	795.4	812.7	826.0	836.6	840.6	843.2
65°	626.4	657.0	687.6	715.6	742.2	766.1	783.4	796.7	807.3	814.0	815.3
67.5°	590.5	623.8	655.7	685.0	711.6	736.8	754.1	767.4	778.1	786.1	787.4
70°	557.3	591.9	623.8	655.7	682.3	707.6	726.2	739.5	751.5	756.8	759.5
72.5°	525.4	561.3	594.5	626.4	653.0	678.3	698.3	711.6	723.5	730.2	731.5
75°	494.8	530.7	566.6	597.2	625.1	650.4	670.3	685.0	695.6	702.3	704.9
77.5°	464.2	501.4	537.3	567.9	597.2	622.5	639.7	657.0	667.7	675.7	675.7
80°	433.6	472.2	509.4	540.0	569.3	591.9	611.8	629.1	639.7	647.7	647.7
82.5°	407.0	444.2	480.1	510.7	540.0	565.3	585.2	601.2	613.1	618.5	619.8
85°	376.4	417.6	450.9	484.1	512.1	536.0	556.0	573.2	583.9	589.2	591.9
87.5°	351.1	391.0	426.9	456.2	484.1	508.1	530.7	545.3	556.0	562.6	565.3
90°	327.2	365.8	401.7	430.9	460.2	482.8	504.1	518.7	530.7	536.0	538.7
92.5°	305.9	344.5	379.1	408.3	436.3	461.5	481.5	496.1	506.7	512.1	516.1
95°	286.0	323.2	356.4	388.4	415.0	437.6	458.9	473.5	485.5	489.5	493.4
97.5°	266.0	301.9	335.2	365.8	393.7	415.0	434.9	449.6	458.9	465.5	469.5
100°	248.7	283.3	315.2	344.5	371.1	391.0	412.3	425.6	434.9	440.2	445.6
102.5°	230.1	264.7	295.3	323.2	351.1	369.8	389.7	403.0	411.0	420.3	420.3
105°	214.1	246.1	276.6	303.2	327.2	349.8	367.1	380.4	389.7	396.4	396.4
107.5°	196.8	228.8	258.0	286.0	308.6	329.8	345.8	357.8	368.4	372.4	376.4
110°	183.5	211.5	240.7	267.3	288.6	308.6	324.5	337.8	347.1	351.1	353.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	167.6	196.8	223.4	248.7	270.0	288.6	304.6	315.2	324.5	329.8	331.2
115°	154.3	182.2	206.2	230.1	252.7	268.7	283.3	293.9	303.2	307.2	309.9
117.5°	142.3	167.6	191.5	211.5	232.8	250.0	264.7	274.0	282.0	287.3	289.9
120°	130.3	154.3	175.6	195.5	215.5	231.4	244.7	254.0	263.3	267.3	267.3
122.5°	118.4	141.0	160.9	179.6	198.2	212.8	227.4	235.4	243.4	247.4	247.4
125°	107.7	129.0	147.6	164.9	182.2	195.5	207.5	216.8	224.8	227.4	227.4
127.5°	97.1	117.0	134.3	150.3	164.9	178.2	190.2	199.5	206.2	208.8	208.8
130°	87.8	105.1	121.0	137.0	151.6	162.3	174.2	182.2	186.2	190.2	191.5
132.5°	78.5	94.4	109.1	122.4	137.0	147.6	156.9	164.9	168.9	172.9	174.2
135°	69.2	83.8	97.1	110.4	122.4	133.0	141.0	147.6	153.0	155.6	156.9
137.5°	58.5	74.5	86.5	97.1	110.4	118.4	127.7	131.7	137.0	139.7	139.7
140°	49.2	61.2	74.5	85.1	95.8	103.7	111.7	118.4	122.4	123.7	123.7
142.5°	39.9	50.5	61.2	74.5	83.8	90.4	98.4	103.7	106.4	107.7	109.1
145°	31.9	39.9	49.2	61.2	71.8	79.8	83.8	89.1	91.8	93.1	94.4
147.5°	23.9	31.9	39.9	47.9	58.5	66.5	70.5	75.8	78.5	79.8	79.8
150°	18.6	23.9	29.3	37.2	45.2	54.5	59.9	63.8	65.2	66.5	66.5
152.5°	13.3	18.6	22.6	27.9	33.3	41.2	49.2	51.9	53.2	54.5	54.5
155°	9.3	13.3	16.0	20.0	23.9	30.6	37.2	41.2	42.6	43.9	43.9
157.5°	6.7	9.3	10.6	14.6	17.3	20.0	25.3	31.9	33.3	33.3	33.3
160°	4.0	5.3	6.7	9.3	10.6	13.3	16.0	20.0	23.9	23.9	23.9
162.5°	2.7	4.0	4.0	5.3	5.3	8.0	9.3	10.6	14.6	16.0	16.0
165°	1.3	2.7	2.7	2.7	2.7	2.7	4.0	4.0	6.7	8.0	8.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9
2.5°	1258.2	1260.9	1259.5	1259.5	1259.5	1262.2	1259.5	1247.6	1250.2	1252.9	1255.6
5°	1256.9	1258.2	1258.2	1256.9	1256.9	1259.5	1256.9	1244.9	1247.6	1250.2	1251.6
7.5°	1251.6	1252.9	1252.9	1252.9	1251.6	1254.2	1250.2	1239.6	1239.6	1242.3	1243.6
10°	1244.9	1247.6	1246.2	1244.9	1244.9	1244.9	1242.3	1230.3	1230.3	1231.6	1232.9
12.5°	1236.9	1236.9	1236.9	1235.6	1234.3	1234.3	1231.6	1219.6	1218.3	1221.0	1219.6
15°	1226.3	1229.0	1226.3	1225.0	1222.3	1222.3	1218.3	1206.3	1203.7	1205.0	1203.7
17.5°	1217.0	1218.3	1215.7	1213.0	1210.3	1209.0	1205.0	1191.7	1187.7	1189.1	1186.4
20°	1207.7	1207.7	1205.0	1202.4	1198.4	1194.4	1189.1	1175.8	1169.1	1169.1	1163.8
22.5°	1195.7	1195.7	1193.0	1189.1	1185.1	1179.7	1174.4	1161.1	1150.5	1147.8	1143.8
25°	1182.4	1181.1	1179.7	1175.8	1167.8	1162.5	1157.1	1142.5	1130.5	1125.2	1118.6
27.5°	1166.4	1166.4	1162.5	1158.5	1150.5	1143.8	1137.2	1123.9	1107.9	1101.3	1092.0
30°	1149.2	1149.2	1145.2	1139.8	1131.9	1123.9	1115.9	1099.9	1084.0	1074.7	1064.0
32.5°	1131.9	1130.5	1126.5	1121.2	1113.2	1101.3	1094.6	1078.7	1060.0	1049.4	1034.8
35°	1110.6	1109.3	1105.3	1098.6	1088.0	1078.7	1068.0	1053.4	1032.1	1018.8	1002.8
37.5°	1089.3	1088.0	1085.3	1076.0	1065.4	1054.7	1041.4	1026.8	1006.8	989.5	973.6
40°	1068.0	1066.7	1061.4	1054.7	1041.4	1028.1	1014.8	1000.2	978.9	959.0	941.7
42.5°	1045.4	1044.1	1037.4	1029.4	1014.8	1001.5	985.6	969.6	948.3	924.4	907.1
45°	1022.8	1020.1	1013.5	1004.2	988.2	973.6	957.6	939.0	917.7	895.1	872.5
47.5°	998.9	994.9	988.2	974.9	961.6	945.7	927.0	907.1	885.8	860.5	836.6
50°	972.3	969.6	961.6	949.6	933.7	917.7	896.4	876.5	851.2	827.3	798.0
52.5°	947.0	941.7	935.0	921.7	905.8	888.5	865.9	841.9	816.6	794.0	763.4
55°	920.4	917.7	908.4	897.8	877.8	857.9	836.6	811.3	783.4	756.8	727.5
57.5°	895.1	889.8	881.8	867.2	849.9	829.9	807.3	780.7	750.1	722.2	690.3
60°	869.8	861.9	852.6	839.3	820.6	799.4	775.4	747.5	716.9	686.3	653.0
62.5°	841.9	835.3	824.6	811.3	792.7	770.1	744.8	715.6	686.3	654.4	618.5
65°	814.0	807.3	796.7	783.4	764.8	739.5	712.9	683.6	650.4	619.8	581.2
67.5°	786.1	779.4	767.4	752.8	734.2	710.2	682.3	651.7	618.5	585.2	545.3
70°	758.1	750.1	739.5	723.5	704.9	679.6	651.7	619.8	586.5	550.6	510.7
72.5°	730.2	723.5	710.2	695.6	675.7	650.4	622.5	590.5	556.0	518.7	478.8
75°	702.3	694.3	685.0	667.7	646.4	622.5	593.2	561.3	524.0	488.1	446.9
77.5°	674.3	667.7	655.7	638.4	618.5	593.2	563.9	532.0	494.8	457.5	413.6
80°	646.4	638.4	629.1	613.1	590.5	565.3	534.7	502.8	465.5	426.9	383.1
82.5°	618.5	610.5	599.8	583.9	562.6	537.3	508.1	473.5	436.3	396.4	355.1
85°	590.5	583.9	571.9	556.0	533.3	508.1	478.8	448.2	408.3	368.4	327.2
87.5°	562.6	556.0	544.0	528.0	506.7	481.5	452.2	420.3	381.7	344.5	299.3
90°	536.0	530.7	518.7	502.8	481.5	456.2	429.6	395.0	357.8	320.5	278.0
92.5°	512.1	506.7	496.1	480.1	461.5	433.6	407.0	373.7	336.5	297.9	256.7
95°	490.8	484.1	473.5	458.9	436.3	412.3	385.7	352.5	316.5	278.0	238.1
97.5°	466.8	460.2	449.6	433.6	415.0	389.7	363.1	331.2	295.3	259.4	219.5
100°	442.9	436.3	424.3	411.0	392.4	367.1	341.8	309.9	276.6	242.1	203.5
102.5°	419.0	412.3	401.7	388.4	369.8	347.1	321.9	291.3	258.0	223.4	187.5
105°	396.4	389.7	379.1	365.8	348.5	325.9	299.3	272.7	240.7	207.5	172.9
107.5°	373.7	367.1	357.8	344.5	327.2	305.9	280.6	252.7	223.4	191.5	158.3
110°	351.1	345.8	335.2	323.2	305.9	284.6	262.0	235.4	206.2	176.9	145.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	329.8	324.5	313.9	300.6	286.0	266.0	243.4	218.1	190.2	162.3	131.7
115°	308.6	301.9	292.6	280.6	266.0	247.4	226.1	203.5	175.6	149.0	121.0
117.5°	287.3	282.0	272.7	260.7	247.4	228.8	208.8	187.5	160.9	135.7	110.4
120°	266.0	262.0	252.7	242.1	228.8	211.5	192.9	171.6	147.6	123.7	99.8
122.5°	246.1	242.1	232.8	223.4	210.1	194.2	176.9	156.9	135.7	113.1	91.8
125°	227.4	222.1	214.1	204.8	192.9	178.2	160.9	142.3	122.4	102.4	82.5
127.5°	207.5	203.5	198.2	187.5	175.6	162.3	146.3	130.3	111.7	93.1	74.5
130°	191.5	186.2	179.6	171.6	160.9	147.6	133.0	117.0	101.1	83.8	65.2
132.5°	172.9	167.6	162.3	154.3	145.0	133.0	119.7	105.1	90.4	74.5	58.5
135°	155.6	151.6	146.3	138.3	129.0	119.7	106.4	93.1	79.8	65.2	51.9
137.5°	139.7	135.7	130.3	125.0	115.7	106.4	94.4	82.5	70.5	57.2	45.2
140°	123.7	121.0	115.7	110.4	102.4	93.1	82.5	71.8	61.2	49.2	38.6
142.5°	107.7	105.1	101.1	95.8	89.1	81.1	71.8	62.5	51.9	42.6	33.3
145°	93.1	91.8	87.8	82.5	77.1	69.2	61.2	53.2	43.9	35.9	26.6
147.5°	78.5	77.1	74.5	70.5	65.2	58.5	51.9	43.9	37.2	29.3	21.3
150°	65.2	63.8	62.5	57.2	54.5	47.9	42.6	35.9	30.6	22.6	17.3
152.5°	53.2	53.2	50.5	46.6	43.9	38.6	34.6	29.3	23.9	18.6	13.3
155°	42.6	41.2	39.9	37.2	34.6	30.6	26.6	22.6	18.6	13.3	9.3
157.5°	33.3	31.9	30.6	27.9	25.3	23.9	20.0	16.0	12.0	9.3	6.7
160°	23.9	22.6	21.3	20.0	18.6	16.0	13.3	10.6	8.0	5.3	4.0
162.5°	16.0	14.6	14.6	13.3	12.0	9.3	8.0	6.7	5.3	4.0	2.7
165°	8.0	8.0	6.7	6.7	5.3	4.0	4.0	4.0	2.7	2.7	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: P#

CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9
2.5°	1254.2	1254.2	1259.5	1258.2	1254.2	1262.2	1271.5
5°	1250.2	1250.2	1254.2	1254.2	1250.2	1258.2	1266.2
7.5°	1243.6	1242.3	1246.2	1246.2	1240.9	1247.6	1256.9
10°	1231.6	1230.3	1234.3	1234.3	1229.0	1235.6	1243.6
12.5°	1218.3	1215.7	1219.6	1218.3	1213.0	1219.6	1227.6
15°	1201.0	1199.7	1202.4	1199.7	1194.4	1201.0	1209.0
17.5°	1183.7	1179.7	1181.1	1181.1	1171.8	1178.4	1185.1
20°	1161.1	1155.8	1157.1	1155.8	1149.2	1153.1	1161.1
22.5°	1138.5	1130.5	1130.5	1129.2	1121.2	1126.5	1133.2
25°	1110.6	1101.3	1101.3	1099.9	1090.6	1094.6	1101.3
27.5°	1082.6	1073.3	1069.3	1068.0	1058.7	1058.7	1068.0
30°	1053.4	1040.1	1037.4	1033.4	1024.1	1024.1	1032.1
32.5°	1025.5	1006.8	1001.5	996.2	986.9	985.6	994.9
35°	988.2	973.6	964.3	959.0	948.3	945.7	953.6
37.5°	957.6	939.0	925.7	919.1	908.4	904.4	915.1
40°	924.4	904.4	887.1	883.1	867.2	861.9	871.2
42.5°	887.1	865.9	848.6	840.6	828.6	823.3	824.6
45°	849.9	827.3	808.7	798.0	786.1	776.7	782.1
47.5°	811.3	791.4	768.8	752.8	738.2	731.5	734.2
50°	772.8	748.8	727.5	710.2	692.9	685.0	690.3
52.5°	734.2	708.9	685.0	666.3	646.4	638.4	639.7
55°	696.9	670.3	642.4	622.5	603.8	591.9	589.2
57.5°	659.7	630.4	601.2	578.6	554.6	544.0	540.0
60°	619.8	589.2	558.6	532.0	506.7	494.8	489.5
62.5°	582.6	549.3	514.7	486.8	461.5	445.6	441.6
65°	546.6	508.1	473.5	441.6	413.6	396.4	391.0
67.5°	508.1	468.2	430.9	396.4	369.8	347.1	344.5
70°	472.2	429.6	388.4	352.5	323.2	300.6	289.9
72.5°	436.3	392.4	349.8	311.2	274.0	252.7	244.7
75°	401.7	356.4	311.2	271.3	230.1	204.8	196.8
77.5°	369.8	323.2	275.3	231.4	192.9	160.9	150.3
80°	339.2	291.3	240.7	195.5	154.3	119.7	107.7
82.5°	307.2	262.0	210.1	162.3	119.7	83.8	69.2
85°	279.3	234.1	182.2	134.3	91.8	53.2	37.2
87.5°	256.7	207.5	160.9	113.1	69.2	30.6	10.6
90°	234.1	186.2	139.7	93.1	51.9	17.3	1.3
92.5°	214.1	168.9	122.4	79.8	39.9	12.0	1.3
95°	195.5	151.6	107.7	66.5	31.9	8.0	1.3
97.5°	178.2	137.0	95.8	57.2	26.6	6.7	1.3
100°	163.6	123.7	85.1	50.5	22.6	5.3	1.3
102.5°	149.0	111.7	75.8	43.9	20.0	4.0	1.3
105°	137.0	101.1	67.8	39.9	17.3	4.0	1.3
107.5°	125.0	91.8	61.2	34.6	14.6	2.7	1.3
110°	113.1	83.8	54.5	30.6	13.3	2.7	1.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	103.7	75.8	49.2	27.9	10.6	2.7	1.3
115°	94.4	67.8	43.9	23.9	9.3	1.3	1.3
117.5°	85.1	61.2	38.6	21.3	8.0	1.3	1.3
120°	77.1	54.5	34.6	18.6	6.7	1.3	1.3
122.5°	69.2	49.2	30.6	16.0	5.3	1.3	1.3
125°	62.5	43.9	26.6	13.3	4.0	1.3	1.3
127.5°	55.9	38.6	23.9	12.0	4.0	1.3	1.3
130°	49.2	34.6	20.0	9.3	2.7	1.3	1.3
132.5°	43.9	29.3	17.3	8.0	2.7	1.3	1.3
135°	38.6	25.3	14.6	5.3	2.7	1.3	1.3
137.5°	33.3	21.3	12.0	4.0	1.3	1.3	1.3
140°	27.9	18.6	9.3	4.0	1.3	1.3	1.3
142.5°	23.9	14.6	6.7	2.7	1.3	1.3	1.3
145°	18.6	12.0	5.3	2.7	1.3	1.3	1.3
147.5°	14.6	9.3	4.0	2.7	1.3	1.3	1.3
150°	10.6	6.7	4.0	1.3	1.3	1.3	1.3
152.5°	8.0	5.3	2.7	1.3	1.3	1.3	1.3
155°	5.3	4.0	2.7	1.3	1.3	1.3	1.3
157.5°	4.0	2.7	1.3	1.3	1.3	1.3	1.3
160°	2.7	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)