

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-L930-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-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

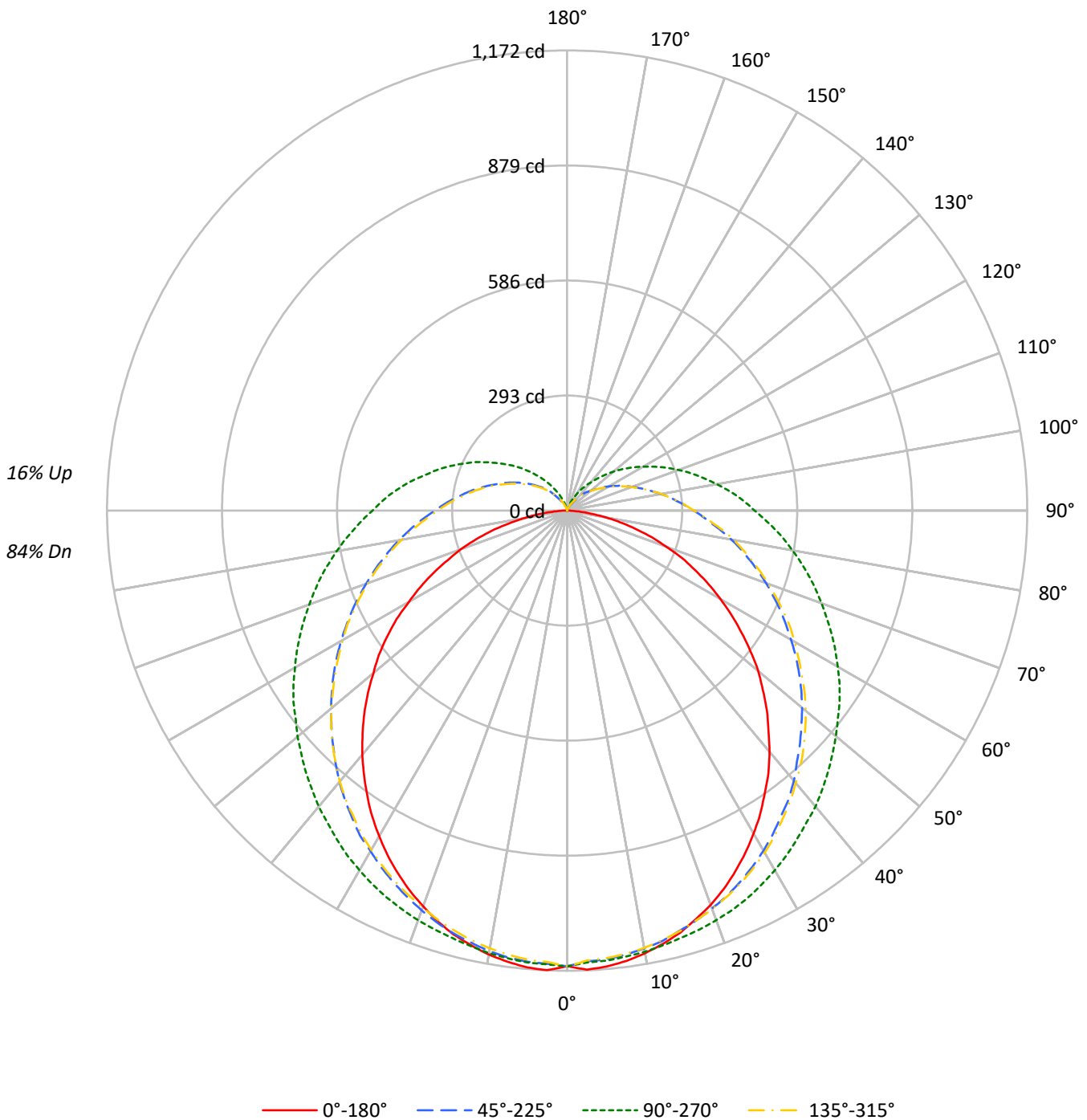
Lumens per Lamp: N/A
Luminaire Lumens: 5042.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

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





TEST NUMBER: P#

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4689	4689	4689	4689
5°	4720	4519	4730	4538
10°	4683	4390	4698	4405
15°	4635	4280	4656	4285
20°	4569	4200	4585	4200
25°	4486	4129	4513	4125
30°	4393	4056	4426	4056
35°	4282	3988	4330	3993
40°	4174	3948	4225	3948
45°	4050	3906	4112	3911
50°	3920	3881	3974	3892
55°	3737	3885	3855	3902
60°	3545	3897	3660	3921
65°	3329	3936	3476	3975
70°	3023	4008	3259	4065
75°	2673	4139	2925	4219
80°	2120	4333	2407	4434
85°	1349	4645	1684	4774



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	2.2
10°-20°	316.0	6.3
20°-30°	484.4	9.6
30°-40°	597.6	11.9
40°-50°	648.4	12.9
50°-60°	639.1	12.7
60°-70°	577.8	11.5
70°-80°	481.4	9.5
80°-90°	372.8	7.4
90°-100°	282.8	5.6
100°-110°	209.2	4.2
110°-120°	145.5	2.9
120°-130°	92.9	1.8
130°-140°	52.1	1.0
140°-150°	23.8	0.5
150°-160°	7.4	0.1
160°-170°	0.9	0.0
170°-180°	0.0	0.0
0°-30°	910.3	18.1
0°-40°	1508.0	29.9
0°-60°	2795.4	55.4
0°-90°	4227.4	83.8
90°-120°	637.5	12.6
90°-150°	806.3	16.0
90°-180°	815.0	16.2
0°-180°	5042.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1160	1160	1160	1160	1160	
5°	1165	1151	1168	1156	1165	111
15°	1113	1126	1118	1128	1113	314
25°	1014	1088	1020	1087	1014	467
35°	878	1021	888	1022	878	550
45°	720	940	731	941	720	554
55°	542	847	559	851	542	485
65°	360	743	376	750	360	357
75°	181	637	198	649	181	192
85°	34	530	43	545	34	41
90°	1	477	2	496	1	2
95°	1	433	1	454	1	1
105°	1	344	1	365	1	1
115°	1	262	1	285	1	1
125°	1	188	1	209	1	1
135°	1	122	1	144	1	1
145°	1	71	1	87	1	1
155°	1	29	1	40	1	1
165°	1	5	1	7	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5
2.5°	1170.3	1170.3	1169.1	1166.6	1167.9	1171.5	1169.1	1163.0	1159.3	1149.5	1152.0
5°	1165.4	1165.4	1164.2	1161.7	1163.0	1167.9	1165.4	1160.5	1155.6	1147.1	1150.7
7.5°	1156.8	1156.8	1155.6	1153.2	1155.6	1160.5	1158.1	1153.2	1149.5	1140.9	1144.6
10°	1144.6	1145.8	1144.6	1140.9	1145.8	1150.7	1149.5	1143.4	1139.7	1132.4	1136.0
12.5°	1129.9	1131.1	1129.9	1128.7	1131.1	1138.5	1136.0	1131.1	1128.7	1122.6	1126.2
15°	1112.8	1114.0	1111.6	1111.6	1114.0	1121.3	1121.3	1116.5	1114.0	1107.9	1115.2
17.5°	1090.7	1092.0	1090.7	1090.7	1093.2	1100.5	1101.8	1099.3	1096.9	1094.4	1101.8
20°	1068.7	1067.5	1067.5	1066.3	1071.2	1082.2	1080.9	1080.9	1078.5	1078.5	1087.1
22.5°	1043.0	1043.0	1041.8	1041.8	1047.9	1057.7	1057.7	1060.1	1057.7	1062.6	1069.9
25°	1013.6	1014.8	1013.6	1016.1	1021.0	1032.0	1033.2	1036.9	1038.1	1043.0	1051.6
27.5°	983.0	984.2	983.0	985.5	994.0	1002.6	1008.7	1013.6	1014.8	1022.2	1033.2
30°	950.0	950.0	951.2	953.6	963.4	976.9	981.8	987.9	987.9	1000.2	1011.2
32.5°	915.7	915.7	915.7	920.6	931.6	947.5	953.6	961.0	963.4	975.7	987.9
35°	877.7	879.0	879.0	882.6	897.3	913.2	921.8	930.4	935.3	950.0	962.2
37.5°	842.2	844.7	841.0	845.9	866.7	880.2	890.0	898.5	907.1	926.7	936.5
40°	801.8	804.3	803.1	812.9	830.0	847.1	858.1	866.7	879.0	898.5	909.6
42.5°	759.0	761.4	763.9	774.9	793.3	810.4	823.9	834.9	849.6	866.7	885.1
45°	719.8	719.8	723.5	737.0	756.5	774.9	790.8	803.1	820.2	838.6	856.9
47.5°	675.7	677.0	681.9	697.8	718.6	740.6	755.3	771.2	789.6	809.2	830.0
50°	635.3	635.3	642.7	659.8	679.4	703.9	719.8	738.2	757.8	781.0	801.8
52.5°	588.8	591.3	602.3	618.2	643.9	666.0	684.3	703.9	727.2	751.6	774.9
55°	542.3	547.2	555.8	577.8	604.7	625.6	647.6	672.1	694.1	721.0	748.0
57.5°	497.0	500.7	514.2	536.2	564.3	590.1	613.3	636.6	663.5	690.4	718.6
60°	450.5	455.4	471.3	493.3	523.9	550.9	577.8	602.3	630.5	658.6	688.0
62.5°	406.4	410.1	428.5	454.2	484.8	514.2	541.1	570.5	601.1	628.0	657.4
65°	359.9	366.0	386.8	410.1	445.6	475.0	505.6	537.4	569.2	598.6	626.8
67.5°	317.1	320.7	342.8	369.7	405.2	438.3	470.1	504.4	537.4	568.0	596.2
70°	266.9	279.1	301.1	329.3	367.3	401.5	435.8	471.3	506.8	538.6	565.6
72.5°	225.2	235.0	259.5	290.1	326.9	367.3	402.8	440.7	476.2	509.3	537.4
75°	181.2	191.0	219.1	253.4	291.4	334.2	370.9	410.1	446.8	479.9	509.3
77.5°	138.3	150.6	181.2	216.7	258.3	302.4	340.3	379.5	417.4	452.9	482.3
80°	99.2	112.6	145.7	186.1	226.5	270.5	312.2	351.3	389.3	424.8	455.4
82.5°	63.7	78.3	113.8	154.2	197.1	241.2	284.0	323.2	361.1	396.6	428.5
85°	34.3	50.2	86.9	127.3	170.2	214.2	257.1	298.7	335.4	368.5	402.8
87.5°	9.8	29.4	64.9	105.3	149.3	189.7	231.4	273.0	309.7	345.2	375.8
90°	1.2	17.1	49.0	86.9	129.8	168.9	210.6	249.7	286.5	322.0	352.6
92.5°	1.2	11.0	37.9	72.2	111.4	151.8	193.4	231.4	265.6	301.1	331.8
95°	1.2	8.6	30.6	61.2	97.9	135.9	175.1	211.8	247.3	280.3	310.9
97.5°	1.2	6.1	24.5	52.6	85.7	121.2	159.1	195.9	230.1	262.0	290.1
100°	1.2	4.9	19.6	45.3	74.7	109.0	143.2	178.7	211.8	242.4	271.8
102.5°	1.2	3.7	17.1	37.9	66.1	96.7	129.8	162.8	194.6	224.0	253.4
105°	1.2	3.7	14.7	33.1	58.8	86.9	117.5	149.3	178.7	206.9	233.8
107.5°	1.2	2.4	12.2	28.2	51.4	78.3	106.5	137.1	164.0	191.0	216.7
110°	1.2	2.4	9.8	25.7	45.3	69.8	96.7	124.9	150.6	176.3	200.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.2	2.4	8.6	22.0	39.2	62.4	86.9	112.6	137.1	162.8	184.9
115°	1.2	2.4	7.3	19.6	36.7	53.9	78.3	101.6	126.1	149.3	170.2
117.5°	1.2	2.4	6.1	15.9	31.8	49.0	68.6	91.8	113.8	135.9	155.5
120°	1.2	2.4	4.9	14.7	28.2	44.1	61.2	82.0	102.8	123.6	144.5
122.5°	1.2	1.2	4.9	12.2	24.5	39.2	56.3	72.2	91.8	111.4	129.8
125°	1.2	1.2	4.9	11.0	20.8	35.5	50.2	64.9	82.0	99.2	115.1
127.5°	1.2	1.2	3.7	8.6	18.4	30.6	44.1	60.0	72.2	88.1	104.1
130°	1.2	1.2	3.7	7.3	15.9	25.7	39.2	52.6	67.3	78.3	91.8
132.5°	1.2	1.2	3.7	6.1	12.2	20.8	33.1	45.3	58.8	71.0	82.0
135°	1.2	1.2	2.4	4.9	9.8	17.1	26.9	37.9	51.4	63.7	74.7
137.5°	1.2	1.2	2.4	4.9	7.3	14.7	20.8	30.6	42.8	53.9	64.9
140°	1.2	1.2	2.4	3.7	6.1	11.0	17.1	24.5	34.3	44.1	56.3
142.5°	1.2	1.2	1.2	3.7	4.9	8.6	13.5	19.6	26.9	35.5	45.3
145°	1.2	1.2	1.2	3.7	4.9	6.1	11.0	15.9	20.8	26.9	35.5
147.5°	1.2	1.2	1.2	2.4	3.7	4.9	8.6	12.2	15.9	20.8	25.7
150°	1.2	1.2	1.2	2.4	3.7	4.9	6.1	8.6	12.2	17.1	20.8
152.5°	1.2	1.2	1.2	2.4	2.4	3.7	4.9	6.1	8.6	12.2	14.7
155°	1.2	1.2	1.2	1.2	2.4	3.7	4.9	4.9	6.1	8.6	11.0
157.5°	1.2	1.2	1.2	1.2	2.4	2.4	3.7	3.7	4.9	4.9	7.3
160°	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.7	3.7	3.7	3.7
162.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4	3.7	3.7
165°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5
2.5°	1152.0	1153.2	1156.8	1156.8	1154.4	1154.4	1153.2	1152.0	1153.2	1155.6	1155.6
5°	1149.5	1150.7	1154.4	1155.6	1153.2	1152.0	1152.0	1150.7	1152.0	1154.4	1154.4
7.5°	1144.6	1145.8	1149.5	1150.7	1148.3	1148.3	1147.1	1145.8	1148.3	1149.5	1149.5
10°	1137.3	1138.5	1143.4	1144.6	1143.4	1142.2	1142.2	1140.9	1142.2	1144.6	1144.6
12.5°	1127.5	1129.9	1136.0	1136.0	1136.0	1134.8	1134.8	1133.6	1134.8	1137.3	1136.0
15°	1116.5	1121.3	1126.2	1128.7	1128.7	1128.7	1127.5	1126.2	1128.7	1129.9	1128.7
17.5°	1104.2	1110.3	1117.7	1120.1	1120.1	1121.3	1120.1	1118.9	1121.3	1121.3	1120.1
20°	1092.0	1098.1	1105.4	1107.9	1110.3	1111.6	1111.6	1110.3	1111.6	1112.8	1111.6
22.5°	1076.1	1083.4	1092.0	1095.6	1098.1	1100.5	1100.5	1100.5	1101.8	1103.0	1100.5
25°	1058.9	1067.5	1077.3	1080.9	1085.8	1087.1	1088.3	1088.3	1089.5	1090.7	1087.1
27.5°	1040.6	1050.3	1060.1	1066.3	1069.9	1072.4	1072.4	1073.6	1074.8	1076.1	1072.4
30°	1018.5	1033.2	1041.8	1046.7	1051.6	1055.2	1056.5	1057.7	1058.9	1060.1	1056.5
32.5°	998.9	1011.2	1022.2	1028.3	1034.4	1039.3	1040.6	1040.6	1043.0	1043.0	1039.3
35°	975.7	990.4	1001.4	1007.5	1014.8	1018.5	1021.0	1021.0	1023.4	1023.4	1019.7
37.5°	952.4	967.1	979.3	986.7	995.3	1000.2	1001.4	1001.4	1003.8	1003.8	998.9
40°	927.9	943.8	957.3	965.9	973.2	979.3	980.6	984.2	984.2	983.0	978.1
42.5°	903.4	918.1	932.8	942.6	952.4	958.5	961.0	962.2	962.2	961.0	957.3
45°	876.5	893.6	907.1	919.4	929.2	935.3	938.9	940.2	940.2	937.7	934.0
47.5°	850.8	867.9	881.4	894.9	904.7	912.0	915.7	916.9	915.7	914.5	910.8
50°	823.9	843.5	856.9	870.4	880.2	886.3	892.4	893.6	892.4	891.2	883.9
52.5°	795.7	816.5	831.2	844.7	855.7	863.0	867.9	869.2	869.2	866.7	861.8
55°	767.6	785.9	804.3	819.0	831.2	838.6	844.7	847.1	844.7	842.2	836.1
57.5°	741.9	759.0	777.4	793.3	805.5	815.3	820.2	822.6	820.2	816.5	810.4
60°	711.2	729.6	750.4	765.1	778.6	788.4	790.8	795.7	793.3	789.6	783.5
62.5°	681.9	703.9	722.3	740.6	751.6	762.7	767.6	770.0	767.6	763.9	757.8
65°	651.3	675.7	694.1	712.5	724.7	735.7	741.9	743.1	740.6	737.0	730.8
67.5°	623.1	646.4	666.0	685.5	696.6	707.6	713.7	716.1	713.7	708.8	702.7
70°	595.0	618.2	641.5	656.2	669.6	681.9	685.5	689.2	686.8	681.9	674.5
72.5°	566.8	591.3	614.5	629.2	643.9	654.9	659.8	663.5	661.1	656.2	647.6
75°	537.4	563.1	586.4	602.3	617.0	628.0	632.9	636.6	634.1	629.2	619.4
77.5°	510.5	536.2	558.2	575.4	590.1	599.8	608.4	609.6	607.2	602.3	592.5
80°	482.3	508.0	531.3	548.4	563.1	572.9	579.0	582.7	580.3	575.4	565.6
82.5°	457.8	481.1	504.4	521.5	536.2	548.4	553.3	557.0	555.8	548.4	541.1
85°	430.9	457.8	476.2	494.6	509.3	521.5	525.2	530.1	528.8	522.7	512.9
87.5°	404.0	430.9	452.9	471.3	484.8	494.6	500.7	503.1	501.9	495.8	484.8
90°	381.9	406.4	428.5	448.0	459.1	470.1	476.2	477.4	477.4	470.1	461.5
92.5°	361.1	384.4	406.4	424.8	438.3	448.0	452.9	455.4	454.2	448.0	438.3
95°	337.9	363.6	384.4	402.8	416.2	426.0	430.9	433.4	432.1	426.0	416.2
97.5°	318.3	341.5	362.4	379.5	393.0	402.8	407.7	410.1	410.1	404.0	394.2
100°	298.7	322.0	341.5	358.7	370.9	380.7	385.6	386.8	385.6	380.7	370.9
102.5°	279.1	301.1	320.7	336.6	350.1	358.7	363.6	364.8	364.8	358.7	348.9
105°	259.5	281.6	299.9	317.1	328.1	336.6	340.3	344.0	342.8	337.9	328.1
107.5°	241.2	263.2	280.3	296.3	307.3	315.8	319.5	323.2	322.0	317.1	307.3
110°	224.0	244.8	260.7	276.7	286.5	295.0	301.1	302.4	299.9	295.0	286.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	208.1	226.5	242.4	257.1	268.1	274.2	279.1	281.6	279.1	274.2	268.1
115°	191.0	209.3	225.2	238.7	248.5	255.9	259.5	262.0	259.5	254.6	248.5
117.5°	175.1	192.2	208.1	221.6	230.1	236.3	239.9	242.4	239.9	236.3	230.1
120°	161.6	176.3	191.0	203.2	213.0	217.9	221.6	224.0	222.8	217.9	211.8
122.5°	145.7	161.6	175.1	187.3	195.9	200.8	203.2	205.7	204.4	200.8	194.6
125°	132.2	145.7	159.1	170.2	178.7	183.6	186.1	188.5	187.3	183.6	176.3
127.5°	117.5	132.2	143.2	154.2	160.4	167.7	168.9	171.4	170.2	166.5	160.4
130°	106.5	117.5	128.5	138.3	145.7	150.6	153.0	154.2	151.8	149.3	143.2
132.5°	93.0	105.3	115.1	123.6	128.5	133.4	135.9	137.1	137.1	133.4	128.5
135°	83.2	91.8	100.4	109.0	113.8	118.7	121.2	122.4	121.2	118.7	113.8
137.5°	74.7	82.0	88.1	95.5	101.6	104.1	106.5	106.5	105.3	104.1	100.4
140°	64.9	73.5	79.6	84.5	89.4	90.6	93.0	93.0	91.8	90.6	88.1
142.5°	55.1	62.4	68.6	74.7	78.3	80.8	82.0	83.2	82.0	80.8	77.1
145°	44.1	52.6	58.8	62.4	67.3	68.6	69.8	71.0	69.8	68.6	64.9
147.5°	34.3	41.6	47.7	52.6	56.3	57.5	58.8	60.0	58.8	56.3	55.1
150°	24.5	30.6	37.9	42.8	45.3	47.7	47.7	47.7	49.0	46.5	44.1
152.5°	19.6	22.0	26.9	31.8	35.5	36.7	37.9	37.9	36.7	36.7	34.3
155°	13.5	15.9	19.6	23.3	26.9	28.2	29.4	29.4	28.2	28.2	26.9
157.5°	8.6	11.0	13.5	15.9	19.6	20.8	22.0	22.0	22.0	20.8	19.6
160°	4.9	6.1	7.3	9.8	12.2	13.5	14.7	14.7	14.7	14.7	13.5
162.5°	3.7	3.7	3.7	4.9	6.1	7.3	8.6	8.6	8.6	8.6	7.3
165°	2.4	2.4	2.4	2.4	2.4	3.7	4.9	4.9	4.9	4.9	4.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5
2.5°	1154.4	1154.4	1155.6	1153.2	1145.8	1147.1	1147.1	1152.0	1154.4	1155.6	1161.7
5°	1152.0	1152.0	1154.4	1150.7	1144.6	1144.6	1144.6	1149.5	1150.7	1153.2	1158.1
7.5°	1148.3	1148.3	1149.5	1145.8	1138.5	1138.5	1137.3	1142.2	1144.6	1145.8	1150.7
10°	1142.2	1142.2	1143.4	1139.7	1131.1	1131.1	1129.9	1133.6	1134.8	1137.3	1140.9
12.5°	1133.6	1133.6	1133.6	1129.9	1121.3	1120.1	1118.9	1122.6	1122.6	1123.8	1127.5
15°	1126.2	1123.8	1123.8	1120.1	1111.6	1109.1	1106.7	1107.9	1110.3	1109.1	1111.6
17.5°	1117.7	1115.2	1112.8	1109.1	1098.1	1094.4	1092.0	1093.2	1092.0	1090.7	1093.2
20°	1107.9	1104.2	1103.0	1096.9	1085.8	1079.7	1074.8	1072.4	1073.6	1069.9	1071.2
22.5°	1096.9	1092.0	1089.5	1082.2	1071.2	1063.8	1057.7	1052.8	1051.6	1046.7	1047.9
25°	1083.4	1077.3	1073.6	1067.5	1055.2	1046.7	1039.3	1032.0	1028.3	1022.2	1021.0
27.5°	1067.5	1061.4	1056.5	1050.3	1038.1	1027.1	1018.5	1008.7	1003.8	996.5	992.8
30°	1051.6	1044.2	1036.9	1032.0	1018.5	1006.3	992.8	984.2	976.9	968.3	962.2
32.5°	1032.0	1024.6	1017.3	1009.9	997.7	983.0	972.0	958.5	950.0	940.2	932.8
35°	1012.4	1002.6	995.3	985.5	974.4	957.3	943.8	930.4	919.4	908.3	899.8
37.5°	990.4	983.0	972.0	963.4	950.0	932.8	918.1	901.0	891.2	876.5	865.5
40°	969.5	961.0	950.0	938.9	925.5	905.9	890.0	870.4	859.4	842.2	831.2
42.5°	948.7	936.5	925.5	913.2	898.5	880.2	860.6	841.0	826.3	810.4	794.5
45°	925.5	912.0	898.5	885.1	870.4	852.0	831.2	810.4	792.0	777.4	757.8
47.5°	901.0	887.5	871.6	856.9	841.0	822.6	800.6	778.6	759.0	741.9	721.0
50°	876.5	863.0	845.9	830.0	811.6	793.3	770.0	744.3	723.5	701.5	683.1
52.5°	850.8	837.3	821.4	800.6	781.0	762.7	738.2	711.2	688.0	669.6	646.4
55°	825.1	811.6	793.3	772.5	752.9	729.6	706.4	679.4	653.7	631.7	608.4
57.5°	798.2	785.9	765.1	748.0	723.5	699.0	674.5	648.8	620.7	595.0	568.0
60°	771.2	757.8	738.2	717.4	692.9	668.4	642.7	614.5	585.2	557.0	532.5
62.5°	746.7	729.6	711.2	689.2	663.5	640.2	610.9	580.3	550.9	521.5	492.1
65°	718.6	700.2	683.1	661.1	634.1	607.2	577.8	547.2	515.4	483.6	454.2
67.5°	690.4	672.1	653.7	631.7	603.5	575.4	544.8	514.2	478.7	448.0	413.8
70°	662.3	647.6	624.3	601.1	575.4	544.8	514.2	481.1	444.4	411.3	375.8
72.5°	634.1	619.4	596.2	571.7	547.2	515.4	482.3	449.3	415.0	377.0	339.1
75°	607.2	588.8	568.0	544.8	519.1	486.0	452.9	418.7	378.3	342.8	303.6
77.5°	581.5	564.3	543.5	517.8	489.7	457.8	423.6	388.1	347.7	309.7	266.9
80°	553.3	536.2	515.4	489.7	461.5	430.9	394.2	357.5	318.3	276.7	232.6
82.5°	526.4	510.5	487.2	464.0	433.4	402.8	366.0	329.3	287.7	247.3	204.4
85°	498.2	482.3	460.3	435.8	406.4	373.4	339.1	302.4	260.7	219.1	176.3
87.5°	473.8	455.4	433.4	408.9	379.5	347.7	314.6	275.4	235.0	194.6	150.6
90°	448.0	430.9	408.9	384.4	355.0	323.2	288.9	252.2	213.0	171.4	129.8
92.5°	426.0	407.7	386.8	362.4	333.0	302.4	268.1	231.4	193.4	153.0	112.6
95°	404.0	385.6	366.0	341.5	312.2	281.6	247.3	211.8	175.1	135.9	97.9
97.5°	379.5	363.6	344.0	320.7	291.4	262.0	228.9	194.6	159.1	121.2	85.7
100°	359.9	341.5	323.2	298.7	271.8	243.6	210.6	177.5	143.2	107.7	74.7
102.5°	337.9	320.7	302.4	279.1	252.2	224.0	193.4	161.6	129.8	96.7	64.9
105°	317.1	301.1	281.6	259.5	233.8	206.9	177.5	148.1	117.5	85.7	57.5
107.5°	296.3	280.3	262.0	241.2	216.7	189.7	162.8	133.4	105.3	77.1	51.4
110°	275.4	260.7	243.6	222.8	199.5	175.1	149.3	122.4	94.3	68.6	45.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	257.1	242.4	225.2	205.7	183.6	160.4	135.9	110.2	84.5	61.2	39.2
115°	238.7	225.2	208.1	191.0	168.9	146.9	123.6	99.2	75.9	55.1	34.3
117.5°	220.4	206.9	191.0	173.8	154.2	133.4	111.4	88.1	68.6	49.0	30.6
120°	202.0	189.7	175.1	159.1	142.0	121.2	99.2	79.6	61.2	42.8	26.9
122.5°	184.9	173.8	160.4	145.7	127.3	107.7	89.4	72.2	55.1	37.9	22.0
125°	168.9	157.9	145.7	131.0	113.8	96.7	80.8	64.9	47.7	33.1	18.4
127.5°	153.0	142.0	129.8	116.3	102.8	86.9	72.2	57.5	42.8	29.4	15.9
130°	137.1	127.3	116.3	105.3	91.8	77.1	64.9	50.2	36.7	23.3	13.5
132.5°	121.2	113.8	104.1	93.0	80.8	69.8	56.3	44.1	31.8	20.8	12.2
135°	107.7	100.4	91.8	82.0	72.2	61.2	49.0	37.9	26.9	17.1	9.8
137.5°	95.5	89.4	80.8	72.2	63.7	52.6	42.8	31.8	22.0	14.7	7.3
140°	84.5	78.3	71.0	62.4	55.1	45.3	35.5	25.7	19.6	12.2	6.1
142.5°	73.5	67.3	61.2	53.9	46.5	37.9	29.4	22.0	15.9	9.8	6.1
145°	62.4	57.5	51.4	45.3	37.9	30.6	24.5	18.4	12.2	7.3	4.9
147.5°	51.4	47.7	41.6	36.7	30.6	24.5	19.6	14.7	9.8	6.1	3.7
150°	41.6	37.9	33.1	28.2	24.5	19.6	15.9	11.0	7.3	6.1	3.7
152.5°	31.8	29.4	25.7	23.3	19.6	14.7	11.0	8.6	6.1	4.9	2.4
155°	25.7	23.3	20.8	17.1	14.7	11.0	8.6	6.1	4.9	3.7	2.4
157.5°	18.4	17.1	14.7	12.2	9.8	7.3	6.1	6.1	3.7	2.4	1.2
160°	12.2	11.0	9.8	7.3	6.1	6.1	4.9	3.7	2.4	2.4	1.2
162.5°	7.3	6.1	6.1	6.1	4.9	4.9	3.7	2.4	2.4	1.2	1.2
165°	4.9	4.9	4.9	3.7	3.7	3.7	2.4	1.2	1.2	1.2	1.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5
2.5°	1161.7	1158.1	1163.0	1171.5	1172.8	1171.5	1169.1	1172.8	1177.7	1176.4	1167.9
5°	1159.3	1154.4	1159.3	1167.9	1167.9	1166.6	1165.4	1169.1	1174.0	1172.8	1165.4
7.5°	1152.0	1147.1	1152.0	1159.3	1160.5	1158.1	1158.1	1161.7	1166.6	1165.4	1159.3
10°	1142.2	1137.3	1139.7	1148.3	1150.7	1148.3	1148.3	1152.0	1158.1	1156.8	1149.5
12.5°	1127.5	1123.8	1126.2	1133.6	1136.0	1134.8	1133.6	1138.5	1144.6	1144.6	1137.3
15°	1111.6	1106.7	1109.1	1117.7	1118.9	1116.5	1117.7	1121.3	1128.7	1128.7	1122.6
17.5°	1093.2	1087.1	1090.7	1096.9	1098.1	1098.1	1098.1	1103.0	1111.6	1110.3	1105.4
20°	1072.4	1063.8	1066.3	1072.4	1074.8	1074.8	1074.8	1083.4	1089.5	1089.5	1084.6
22.5°	1047.9	1041.8	1041.8	1047.9	1051.6	1050.3	1050.3	1057.7	1066.3	1065.0	1065.0
25°	1019.7	1014.8	1012.4	1019.7	1021.0	1022.2	1024.6	1032.0	1041.8	1041.8	1043.0
27.5°	990.4	985.5	984.2	990.4	991.6	992.8	995.3	1003.8	1013.6	1014.8	1017.3
30°	962.2	954.9	952.4	957.3	959.8	961.0	961.0	974.4	983.0	986.7	991.6
32.5°	929.2	921.8	915.7	924.3	925.5	927.9	929.2	942.6	952.4	958.5	965.9
35°	896.1	883.9	881.4	887.5	890.0	891.2	893.6	908.3	921.8	926.7	936.5
37.5°	859.4	850.8	843.5	849.6	852.0	853.3	860.6	874.1	887.5	894.9	904.7
40°	825.1	814.1	808.0	811.6	814.1	815.3	823.9	838.6	854.5	863.0	875.3
42.5°	787.1	772.5	767.6	771.2	772.5	776.1	783.5	803.1	819.0	831.2	841.0
45°	749.2	738.2	727.2	730.8	732.1	734.5	745.5	766.3	783.5	798.2	809.2
47.5°	710.0	696.6	685.5	688.0	692.9	694.1	706.4	730.8	746.7	762.7	777.4
50°	670.8	652.5	643.9	643.9	646.4	652.5	668.4	692.9	710.0	728.4	744.3
52.5°	630.5	613.3	603.5	604.7	607.2	614.5	629.2	653.7	673.3	692.9	712.5
55°	590.1	571.7	561.9	559.4	561.9	571.7	588.8	614.5	634.1	657.4	678.2
57.5°	549.7	527.6	519.1	515.4	517.8	530.1	547.2	574.1	598.6	620.7	645.1
60°	505.6	488.4	473.8	465.2	471.3	487.2	505.6	533.7	559.4	583.9	610.9
62.5°	467.6	445.6	429.7	421.1	427.2	440.7	466.4	493.3	521.5	549.7	576.6
65°	424.8	402.8	384.4	375.8	381.9	397.9	423.6	452.9	483.6	511.7	543.5
67.5°	383.2	359.9	337.9	329.3	336.6	353.8	381.9	415.0	448.0	477.4	511.7
70°	342.8	317.1	293.8	287.7	292.6	315.8	342.8	375.8	410.1	444.4	479.9
72.5°	306.0	274.2	249.7	242.4	248.5	274.2	304.8	339.1	375.8	412.5	450.5
75°	263.2	233.8	206.9	198.3	205.7	228.9	266.9	303.6	342.8	381.9	417.4
77.5°	228.9	194.6	166.5	153.0	165.3	194.6	231.4	270.5	310.9	351.3	391.7
80°	193.4	157.9	127.3	112.6	126.1	157.9	194.6	237.5	282.8	323.2	359.9
82.5°	161.6	123.6	91.8	75.9	90.6	126.1	166.5	209.3	253.4	293.8	336.6
85°	132.2	93.0	60.0	42.8	63.7	95.5	138.3	182.4	227.7	269.3	310.9
87.5°	107.7	69.8	36.7	18.4	39.2	74.7	115.1	159.1	204.4	246.1	285.2
90°	88.1	50.2	19.6	2.4	23.3	56.3	95.5	138.3	181.2	224.0	263.2
92.5°	72.2	37.9	11.0	1.2	14.7	45.3	82.0	122.4	164.0	205.7	243.6
95°	60.0	29.4	7.3	1.2	11.0	35.5	69.8	109.0	148.1	188.5	226.5
97.5°	51.4	24.5	6.1	1.2	8.6	30.6	60.0	96.7	134.7	172.6	209.3
100°	44.1	19.6	4.9	1.2	7.3	25.7	52.6	85.7	121.2	157.9	193.4
102.5°	37.9	15.9	3.7	1.2	6.1	22.0	46.5	77.1	109.0	144.5	178.7
105°	33.1	13.5	3.7	1.2	4.9	19.6	41.6	68.6	100.4	132.2	165.3
107.5°	28.2	11.0	2.4	1.2	3.7	15.9	36.7	62.4	90.6	121.2	151.8
110°	24.5	9.8	2.4	1.2	3.7	14.7	31.8	56.3	82.0	110.2	139.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	20.8	7.3	2.4	1.2	2.4	12.2	28.2	50.2	74.7	100.4	128.5
115°	18.4	6.1	1.2	1.2	2.4	11.0	25.7	45.3	67.3	91.8	117.5
117.5°	14.7	4.9	1.2	1.2	1.2	8.6	22.0	40.4	61.2	84.5	107.7
120°	12.2	4.9	1.2	1.2	1.2	7.3	19.6	35.5	55.1	75.9	97.9
122.5°	11.0	3.7	1.2	1.2	1.2	6.1	17.1	31.8	49.0	68.6	89.4
125°	9.8	3.7	1.2	1.2	1.2	4.9	14.7	28.2	44.1	61.2	80.8
127.5°	7.3	3.7	1.2	1.2	1.2	3.7	13.5	24.5	39.2	55.1	72.2
130°	6.1	2.4	1.2	1.2	1.2	3.7	11.0	22.0	34.3	49.0	64.9
132.5°	4.9	2.4	1.2	1.2	1.2	2.4	8.6	17.1	29.4	42.8	57.5
135°	4.9	2.4	1.2	1.2	1.2	2.4	6.1	14.7	24.5	36.7	49.0
137.5°	4.9	1.2	1.2	1.2	1.2	2.4	4.9	11.0	19.6	29.4	40.4
140°	3.7	1.2	1.2	1.2	1.2	1.2	3.7	8.6	15.9	24.5	34.3
142.5°	3.7	1.2	1.2	1.2	1.2	1.2	3.7	6.1	12.2	19.6	26.9
145°	2.4	1.2	1.2	1.2	1.2	1.2	2.4	4.9	9.8	14.7	22.0
147.5°	2.4	1.2	1.2	1.2	1.2	1.2	2.4	3.7	7.3	12.2	17.1
150°	2.4	1.2	1.2	1.2	1.2	1.2	2.4	3.7	4.9	8.6	13.5
152.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.7	6.1	8.6
155°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	3.7	4.9	6.1
157.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.7	4.9
160°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.7
162.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4
165°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5
2.5°	1164.2	1155.6	1158.1	1156.8	1159.3	1163.0	1163.0	1161.7	1161.7	1159.3	1156.8
5°	1161.7	1153.2	1156.8	1155.6	1158.1	1161.7	1161.7	1160.5	1160.5	1156.8	1155.6
7.5°	1154.4	1148.3	1150.7	1150.7	1153.2	1156.8	1156.8	1155.6	1155.6	1152.0	1150.7
10°	1147.1	1139.7	1143.4	1143.4	1145.8	1150.7	1150.7	1149.5	1149.5	1145.8	1144.6
12.5°	1134.8	1127.5	1133.6	1134.8	1137.3	1142.2	1140.9	1140.9	1140.9	1137.3	1136.0
15°	1120.1	1115.2	1121.3	1122.6	1126.2	1132.4	1132.4	1132.4	1132.4	1128.7	1127.5
17.5°	1104.2	1100.5	1106.7	1109.1	1114.0	1120.1	1120.1	1121.3	1122.6	1120.1	1118.9
20°	1085.8	1083.4	1089.5	1094.4	1101.8	1107.9	1110.3	1111.6	1114.0	1111.6	1110.3
22.5°	1065.0	1065.0	1073.6	1078.5	1087.1	1093.2	1096.9	1100.5	1103.0	1100.5	1099.3
25°	1041.8	1045.4	1054.0	1062.6	1072.4	1078.5	1082.2	1087.1	1089.5	1088.3	1087.1
27.5°	1019.7	1024.6	1035.7	1044.2	1052.8	1062.6	1066.3	1072.4	1074.8	1074.8	1073.6
30°	994.0	1001.4	1013.6	1023.4	1034.4	1044.2	1049.1	1055.2	1058.9	1056.5	1057.7
32.5°	969.5	981.8	991.6	1002.6	1014.8	1024.6	1030.8	1038.1	1041.8	1040.6	1041.8
35°	942.6	954.9	968.3	979.3	994.0	1003.8	1012.4	1018.5	1023.4	1022.2	1022.2
37.5°	913.2	929.2	942.6	957.3	970.8	981.8	990.4	997.7	1002.6	1002.6	1002.6
40°	885.1	902.2	915.7	932.8	950.0	959.8	969.5	976.9	981.8	983.0	984.2
42.5°	854.5	872.8	888.8	907.1	924.3	936.5	947.5	956.1	961.0	963.4	962.2
45°	826.3	843.5	861.8	882.6	898.5	910.8	924.3	934.0	938.9	940.2	941.4
47.5°	794.5	814.1	834.9	855.7	871.6	887.5	899.8	909.6	914.5	918.1	918.1
50°	763.9	784.7	808.0	830.0	847.1	863.0	875.3	886.3	892.4	894.9	896.1
52.5°	735.7	755.3	779.8	801.8	819.0	834.9	850.8	863.0	869.2	871.6	871.6
55°	701.5	725.9	752.9	773.7	792.0	810.4	826.3	838.6	844.7	848.4	850.8
57.5°	669.6	695.3	723.5	745.5	767.6	784.7	799.4	815.3	820.2	825.1	826.3
60°	639.0	664.7	691.7	716.1	738.2	756.5	773.7	787.1	795.7	798.2	800.6
62.5°	607.2	634.1	662.3	686.8	710.0	732.1	748.0	760.2	770.0	773.7	776.1
65°	576.6	604.7	632.9	658.6	683.1	705.1	721.0	733.3	743.1	749.2	750.4
67.5°	543.5	574.1	603.5	630.5	654.9	678.2	694.1	706.4	716.1	723.5	724.7
70°	512.9	544.8	574.1	603.5	628.0	651.3	668.4	680.6	691.7	696.6	699.0
72.5°	483.6	516.6	547.2	576.6	601.1	624.3	642.7	654.9	666.0	672.1	673.3
75°	455.4	488.4	521.5	549.7	575.4	598.6	617.0	630.5	640.2	646.4	648.8
77.5°	427.2	461.5	494.6	522.7	549.7	572.9	588.8	604.7	614.5	621.9	621.9
80°	399.1	434.6	468.9	497.0	523.9	544.8	563.1	579.0	588.8	596.2	596.2
82.5°	374.6	408.9	441.9	470.1	497.0	520.3	538.6	553.3	564.3	569.2	570.5
85°	346.4	384.4	415.0	445.6	471.3	493.3	511.7	527.6	537.4	542.3	544.8
87.5°	323.2	359.9	393.0	419.9	445.6	467.6	488.4	501.9	511.7	517.8	520.3
90°	301.1	336.6	369.7	396.6	423.6	444.4	464.0	477.4	488.4	493.3	495.8
92.5°	281.6	317.1	348.9	375.8	401.5	424.8	443.2	456.6	466.4	471.3	475.0
95°	263.2	297.5	328.1	357.5	381.9	402.8	422.3	435.8	446.8	450.5	454.2
97.5°	244.8	277.9	308.5	336.6	362.4	381.9	400.3	413.8	422.3	428.5	432.1
100°	228.9	260.7	290.1	317.1	341.5	359.9	379.5	391.7	400.3	405.2	410.1
102.5°	211.8	243.6	271.8	297.5	323.2	340.3	358.7	370.9	378.3	386.8	386.8
105°	197.1	226.5	254.6	279.1	301.1	322.0	337.9	350.1	358.7	364.8	364.8
107.5°	181.2	210.6	237.5	263.2	284.0	303.6	318.3	329.3	339.1	342.8	346.4
110°	168.9	194.6	221.6	246.1	265.6	284.0	298.7	310.9	319.5	323.2	325.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	154.2	181.2	205.7	228.9	248.5	265.6	280.3	290.1	298.7	303.6	304.8
115°	142.0	167.7	189.7	211.8	232.6	247.3	260.7	270.5	279.1	282.8	285.2
117.5°	131.0	154.2	176.3	194.6	214.2	230.1	243.6	252.2	259.5	264.4	266.9
120°	120.0	142.0	161.6	180.0	198.3	213.0	225.2	233.8	242.4	246.1	246.1
122.5°	109.0	129.8	148.1	165.3	182.4	195.9	209.3	216.7	224.0	227.7	227.7
125°	99.2	118.7	135.9	151.8	167.7	180.0	191.0	199.5	206.9	209.3	209.3
127.5°	89.4	107.7	123.6	138.3	151.8	164.0	175.1	183.6	189.7	192.2	192.2
130°	80.8	96.7	111.4	126.1	139.6	149.3	160.4	167.7	171.4	175.1	176.3
132.5°	72.2	86.9	100.4	112.6	126.1	135.9	144.5	151.8	155.5	159.1	160.4
135°	63.7	77.1	89.4	101.6	112.6	122.4	129.8	135.9	140.8	143.2	144.5
137.5°	53.9	68.6	79.6	89.4	101.6	109.0	117.5	121.2	126.1	128.5	128.5
140°	45.3	56.3	68.6	78.3	88.1	95.5	102.8	109.0	112.6	113.8	113.8
142.5°	36.7	46.5	56.3	68.6	77.1	83.2	90.6	95.5	97.9	99.2	100.4
145°	29.4	36.7	45.3	56.3	66.1	73.5	77.1	82.0	84.5	85.7	86.9
147.5°	22.0	29.4	36.7	44.1	53.9	61.2	64.9	69.8	72.2	73.5	73.5
150°	17.1	22.0	26.9	34.3	41.6	50.2	55.1	58.8	60.0	61.2	61.2
152.5°	12.2	17.1	20.8	25.7	30.6	37.9	45.3	47.7	49.0	50.2	50.2
155°	8.6	12.2	14.7	18.4	22.0	28.2	34.3	37.9	39.2	40.4	40.4
157.5°	6.1	8.6	9.8	13.5	15.9	18.4	23.3	29.4	30.6	30.6	30.6
160°	3.7	4.9	6.1	8.6	9.8	12.2	14.7	18.4	22.0	22.0	22.0
162.5°	2.4	3.7	3.7	4.9	4.9	7.3	8.6	9.8	13.5	14.7	14.7
165°	1.2	2.4	2.4	2.4	2.4	2.4	3.7	3.7	6.1	7.3	7.3
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5
2.5°	1158.1	1160.5	1159.3	1159.3	1159.3	1161.7	1159.3	1148.3	1150.7	1153.2	1155.6
5°	1156.8	1158.1	1158.1	1156.8	1156.8	1159.3	1156.8	1145.8	1148.3	1150.7	1152.0
7.5°	1152.0	1153.2	1153.2	1153.2	1152.0	1154.4	1150.7	1140.9	1140.9	1143.4	1144.6
10°	1145.8	1148.3	1147.1	1145.8	1145.8	1145.8	1143.4	1132.4	1132.4	1133.6	1134.8
12.5°	1138.5	1138.5	1138.5	1137.3	1136.0	1136.0	1133.6	1122.6	1121.3	1123.8	1122.6
15°	1128.7	1131.1	1128.7	1127.5	1125.0	1125.0	1121.3	1110.3	1107.9	1109.1	1107.9
17.5°	1120.1	1121.3	1118.9	1116.5	1114.0	1112.8	1109.1	1096.9	1093.2	1094.4	1092.0
20°	1111.6	1111.6	1109.1	1106.7	1103.0	1099.3	1094.4	1082.2	1076.1	1076.1	1071.2
22.5°	1100.5	1100.5	1098.1	1094.4	1090.7	1085.8	1080.9	1068.7	1058.9	1056.5	1052.8
25°	1088.3	1087.1	1085.8	1082.2	1074.8	1069.9	1065.0	1051.6	1040.6	1035.7	1029.5
27.5°	1073.6	1073.6	1069.9	1066.3	1058.9	1052.8	1046.7	1034.4	1019.7	1013.6	1005.0
30°	1057.7	1057.7	1054.0	1049.1	1041.8	1034.4	1027.1	1012.4	997.7	989.1	979.3
32.5°	1041.8	1040.6	1036.9	1032.0	1024.6	1013.6	1007.5	992.8	975.7	965.9	952.4
35°	1022.2	1021.0	1017.3	1011.2	1001.4	992.8	983.0	969.5	950.0	937.7	923.0
37.5°	1002.6	1001.4	998.9	990.4	980.6	970.8	958.5	945.1	926.7	910.8	896.1
40°	983.0	981.8	976.9	970.8	958.5	946.3	934.0	920.6	901.0	882.6	866.7
42.5°	962.2	961.0	954.9	947.5	934.0	921.8	907.1	892.4	872.8	850.8	834.9
45°	941.4	938.9	932.8	924.3	909.6	896.1	881.4	864.3	844.7	823.9	803.1
47.5°	919.4	915.7	909.6	897.3	885.1	870.4	853.3	834.9	815.3	792.0	770.0
50°	894.9	892.4	885.1	874.1	859.4	844.7	825.1	806.7	783.5	761.4	734.5
52.5°	871.6	866.7	860.6	848.4	833.7	817.8	796.9	774.9	751.6	730.8	702.7
55°	847.1	844.7	836.1	826.3	808.0	789.6	770.0	746.7	721.0	696.6	669.6
57.5°	823.9	819.0	811.6	798.2	782.2	763.9	743.1	718.6	690.4	664.7	635.3
60°	800.6	793.3	784.7	772.5	755.3	735.7	713.7	688.0	659.8	631.7	601.1
62.5°	774.9	768.8	759.0	746.7	729.6	708.8	685.5	658.6	631.7	602.3	569.2
65°	749.2	743.1	733.3	721.0	703.9	680.6	656.2	629.2	598.6	570.5	535.0
67.5°	723.5	717.4	706.4	692.9	675.7	653.7	628.0	599.8	569.2	538.6	501.9
70°	697.8	690.4	680.6	666.0	648.8	625.6	599.8	570.5	539.9	506.8	470.1
72.5°	672.1	666.0	653.7	640.2	621.9	598.6	572.9	543.5	511.7	477.4	440.7
75°	646.4	639.0	630.5	614.5	595.0	572.9	546.0	516.6	482.3	449.3	411.3
77.5°	620.7	614.5	603.5	587.6	569.2	546.0	519.1	489.7	455.4	421.1	380.7
80°	595.0	587.6	579.0	564.3	543.5	520.3	492.1	462.7	428.5	393.0	352.6
82.5°	569.2	561.9	552.1	537.4	517.8	494.6	467.6	435.8	401.5	364.8	326.9
85°	543.5	537.4	526.4	511.7	490.9	467.6	440.7	412.5	375.8	339.1	301.1
87.5°	517.8	511.7	500.7	486.0	466.4	443.2	416.2	386.8	351.3	317.1	275.4
90°	493.3	488.4	477.4	462.7	443.2	419.9	395.4	363.6	329.3	295.0	255.9
92.5°	471.3	466.4	456.6	441.9	424.8	399.1	374.6	344.0	309.7	274.2	236.3
95°	451.7	445.6	435.8	422.3	401.5	379.5	355.0	324.4	291.4	255.9	219.1
97.5°	429.7	423.6	413.8	399.1	381.9	358.7	334.2	304.8	271.8	238.7	202.0
100°	407.7	401.5	390.5	378.3	361.1	337.9	314.6	285.2	254.6	222.8	187.3
102.5°	385.6	379.5	369.7	357.5	340.3	319.5	296.3	268.1	237.5	205.7	172.6
105°	364.8	358.7	348.9	336.6	320.7	299.9	275.4	251.0	221.6	191.0	159.1
107.5°	344.0	337.9	329.3	317.1	301.1	281.6	258.3	232.6	205.7	176.3	145.7
110°	323.2	318.3	308.5	297.5	281.6	262.0	241.2	216.7	189.7	162.8	133.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	303.6	298.7	288.9	276.7	263.2	244.8	224.0	200.8	175.1	149.3	121.2
115°	284.0	277.9	269.3	258.3	244.8	227.7	208.1	187.3	161.6	137.1	111.4
117.5°	264.4	259.5	251.0	239.9	227.7	210.6	192.2	172.6	148.1	124.9	101.6
120°	244.8	241.2	232.6	222.8	210.6	194.6	177.5	157.9	135.9	113.8	91.8
122.5°	226.5	222.8	214.2	205.7	193.4	178.7	162.8	144.5	124.9	104.1	84.5
125°	209.3	204.4	197.1	188.5	177.5	164.0	148.1	131.0	112.6	94.3	75.9
127.5°	191.0	187.3	182.4	172.6	161.6	149.3	134.7	120.0	102.8	85.7	68.6
130°	176.3	171.4	165.3	157.9	148.1	135.9	122.4	107.7	93.0	77.1	60.0
132.5°	159.1	154.2	149.3	142.0	133.4	122.4	110.2	96.7	83.2	68.6	53.9
135°	143.2	139.6	134.7	127.3	118.7	110.2	97.9	85.7	73.5	60.0	47.7
137.5°	128.5	124.9	120.0	115.1	106.5	97.9	86.9	75.9	64.9	52.6	41.6
140°	113.8	111.4	106.5	101.6	94.3	85.7	75.9	66.1	56.3	45.3	35.5
142.5°	99.2	96.7	93.0	88.1	82.0	74.7	66.1	57.5	47.7	39.2	30.6
145°	85.7	84.5	80.8	75.9	71.0	63.7	56.3	49.0	40.4	33.1	24.5
147.5°	72.2	71.0	68.6	64.9	60.0	53.9	47.7	40.4	34.3	26.9	19.6
150°	60.0	58.8	57.5	52.6	50.2	44.1	39.2	33.1	28.2	20.8	15.9
152.5°	49.0	49.0	46.5	42.8	40.4	35.5	31.8	26.9	22.0	17.1	12.2
155°	39.2	37.9	36.7	34.3	31.8	28.2	24.5	20.8	17.1	12.2	8.6
157.5°	30.6	29.4	28.2	25.7	23.3	22.0	18.4	14.7	11.0	8.6	6.1
160°	22.0	20.8	19.6	18.4	17.1	14.7	12.2	9.8	7.3	4.9	3.7
162.5°	14.7	13.5	13.5	12.2	11.0	8.6	7.3	6.1	4.9	3.7	2.4
165°	7.3	7.3	6.1	6.1	4.9	3.7	3.7	3.7	2.4	2.4	1.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5	1160.5
2.5°	1154.4	1154.4	1159.3	1158.1	1154.4	1161.7	1170.3
5°	1150.7	1150.7	1154.4	1154.4	1150.7	1158.1	1165.4
7.5°	1144.6	1143.4	1147.1	1147.1	1142.2	1148.3	1156.8
10°	1133.6	1132.4	1136.0	1136.0	1131.1	1137.3	1144.6
12.5°	1121.3	1118.9	1122.6	1121.3	1116.5	1122.6	1129.9
15°	1105.4	1104.2	1106.7	1104.2	1099.3	1105.4	1112.8
17.5°	1089.5	1085.8	1087.1	1087.1	1078.5	1084.6	1090.7
20°	1068.7	1063.8	1065.0	1063.8	1057.7	1061.4	1068.7
22.5°	1047.9	1040.6	1040.6	1039.3	1032.0	1036.9	1043.0
25°	1022.2	1013.6	1013.6	1012.4	1003.8	1007.5	1013.6
27.5°	996.5	987.9	984.2	983.0	974.4	974.4	983.0
30°	969.5	957.3	954.9	951.2	942.6	942.6	950.0
32.5°	943.8	926.7	921.8	916.9	908.3	907.1	915.7
35°	909.6	896.1	887.5	882.6	872.8	870.4	877.7
37.5°	881.4	864.3	852.0	845.9	836.1	832.4	842.2
40°	850.8	832.4	816.5	812.9	798.2	793.3	801.8
42.5°	816.5	796.9	781.0	773.7	762.7	757.8	759.0
45°	782.2	761.4	744.3	734.5	723.5	714.9	719.8
47.5°	746.7	728.4	707.6	692.9	679.4	673.3	675.7
50°	711.2	689.2	669.6	653.7	637.8	630.5	635.3
52.5°	675.7	652.5	630.5	613.3	595.0	587.6	588.8
55°	641.5	617.0	591.3	572.9	555.8	544.8	542.3
57.5°	607.2	580.3	553.3	532.5	510.5	500.7	497.0
60°	570.5	542.3	514.2	489.7	466.4	455.4	450.5
62.5°	536.2	505.6	473.8	448.0	424.8	410.1	406.4
65°	503.1	467.6	435.8	406.4	380.7	364.8	359.9
67.5°	467.6	430.9	396.6	364.8	340.3	319.5	317.1
70°	434.6	395.4	357.5	324.4	297.5	276.7	266.9
72.5°	401.5	361.1	322.0	286.5	252.2	232.6	225.2
75°	369.7	328.1	286.5	249.7	211.8	188.5	181.2
77.5°	340.3	297.5	253.4	213.0	177.5	148.1	138.3
80°	312.2	268.1	221.6	180.0	142.0	110.2	99.2
82.5°	282.8	241.2	193.4	149.3	110.2	77.1	63.7
85°	257.1	215.5	167.7	123.6	84.5	49.0	34.3
87.5°	236.3	191.0	148.1	104.1	63.7	28.2	9.8
90°	215.5	171.4	128.5	85.7	47.7	15.9	1.2
92.5°	197.1	155.5	112.6	73.5	36.7	11.0	1.2
95°	180.0	139.6	99.2	61.2	29.4	7.3	1.2
97.5°	164.0	126.1	88.1	52.6	24.5	6.1	1.2
100°	150.6	113.8	78.3	46.5	20.8	4.9	1.2
102.5°	137.1	102.8	69.8	40.4	18.4	3.7	1.2
105°	126.1	93.0	62.4	36.7	15.9	3.7	1.2
107.5°	115.1	84.5	56.3	31.8	13.5	2.4	1.2
110°	104.1	77.1	50.2	28.2	12.2	2.4	1.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-61SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	95.5	69.8	45.3	25.7	9.8	2.4	1.2
115°	86.9	62.4	40.4	22.0	8.6	1.2	1.2
117.5°	78.3	56.3	35.5	19.6	7.3	1.2	1.2
120°	71.0	50.2	31.8	17.1	6.1	1.2	1.2
122.5°	63.7	45.3	28.2	14.7	4.9	1.2	1.2
125°	57.5	40.4	24.5	12.2	3.7	1.2	1.2
127.5°	51.4	35.5	22.0	11.0	3.7	1.2	1.2
130°	45.3	31.8	18.4	8.6	2.4	1.2	1.2
132.5°	40.4	26.9	15.9	7.3	2.4	1.2	1.2
135°	35.5	23.3	13.5	4.9	2.4	1.2	1.2
137.5°	30.6	19.6	11.0	3.7	1.2	1.2	1.2
140°	25.7	17.1	8.6	3.7	1.2	1.2	1.2
142.5°	22.0	13.5	6.1	2.4	1.2	1.2	1.2
145°	17.1	11.0	4.9	2.4	1.2	1.2	1.2
147.5°	13.5	8.6	3.7	2.4	1.2	1.2	1.2
150°	9.8	6.1	3.7	1.2	1.2	1.2	1.2
152.5°	7.3	4.9	2.4	1.2	1.2	1.2	1.2
155°	4.9	3.7	2.4	1.2	1.2	1.2	1.2
157.5°	3.7	2.4	1.2	1.2	1.2	1.2	1.2
160°	2.4	1.2	1.2	1.2	1.2	1.2	1.2
162.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2
165°	1.2	1.2	1.2	1.2	1.2	1.2	1.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)