

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: **4SNLED-LD5-21SL-RW-UNV-L950-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 (P33525)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-21SL-RW-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

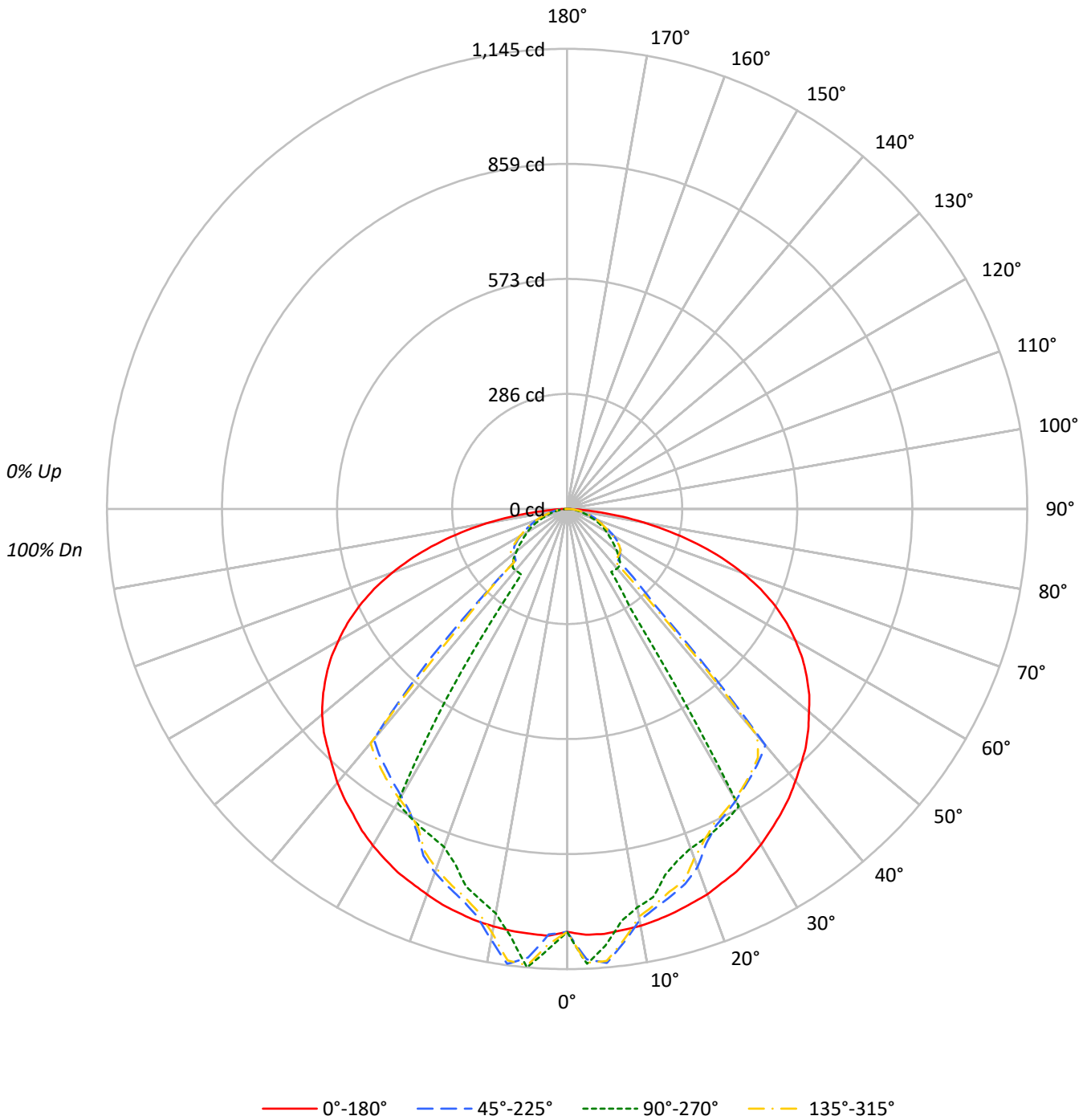
Lumens per Lamp: N/A
Luminaire Lumens: 2107.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 16
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



TEST NUMBER: P#
CATALOG NUMBER: 4SNLED-LD5-21SL-RW-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8503	8503	8503	8503
5°	8586	8567	8582	8991
10°	8594	7746	8606	7864
15°	8614	7166	8633	7393
20°	8676	6797	8676	6772
25°	8751	6667	8764	6605
30°	8839	6549	8861	6472
35°	8942	1492	8962	1556
40°	9086	1551	9141	1601
45°	9303	1543	9335	1599
50°	9521	1395	9649	1432
55°	9814	1238	9891	1256
60°	10062	1101	10084	1115
65°	10240	961	10215	945
70°	10094	773	10061	746
75°	9370	596	9437	571
80°	7606	424	7910	387
85°	4120	254	4352	195



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	4.9
10°-20°	284.6	13.5
20°-30°	421.6	20.0
30°-40°	424.8	20.2
40°-50°	331.8	15.7
50°-60°	256.3	12.2
60°-70°	172.1	8.2
70°-80°	87.8	4.2
80°-90°	24.4	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	809.8	38.4
0°-40°	1234.6	58.6
0°-60°	1822.7	86.5
0°-90°	2107.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2107.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1052	1052	1052	1052	1052	
5°	1061	1091	1061	1145	1061	101
15°	1038	943	1041	973	1038	294
25°	996	879	997	870	996	459
35°	926	191	928	199	926	581
45°	840	186	842	192	840	647
55°	728	135	733	137	728	650
65°	571	91	570	89	571	562
75°	335	46	338	44	335	350
85°	60	14	64	11	60	83
90°	0	0	0	0	0	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2
2.5°	1060.4	1064.2	1067.1	1069.1	1070.0	1070.0	1070.5	1071.0	1077.3	1080.1	1082.1
5°	1061.3	1065.2	1071.0	1078.7	1085.5	1091.2	1096.1	1102.8	1109.6	1116.8	1119.2
7.5°	1057.0	1061.8	1073.4	1087.4	1100.4	1109.6	1115.8	1120.2	1123.5	1124.0	1126.4
10°	1053.1	1061.8	1077.7	1096.1	1112.5	1123.5	1123.5	1121.1	1124.5	1111.5	1098.5
12.5°	1046.4	1056.0	1077.7	1101.8	1117.3	1121.6	1119.7	1110.0	1090.3	1074.4	1067.1
15°	1038.2	1051.2	1078.2	1105.2	1118.2	1119.7	1101.4	1076.8	1061.8	1052.2	1040.1
17.5°	1029.0	1046.4	1078.7	1105.7	1110.5	1103.8	1069.1	1053.6	1038.2	1015.5	999.1
20°	1020.4	1037.2	1074.8	1099.0	1101.8	1071.5	1044.5	1028.1	1002.0	982.3	975.0
22.5°	1006.9	1026.6	1071.5	1089.8	1078.7	1043.5	1017.5	991.4	967.8	962.0	953.3
25°	995.8	1016.5	1063.8	1078.7	1049.3	1017.9	987.6	957.2	946.1	937.9	930.2
27.5°	980.8	1006.4	1053.6	1058.5	1017.9	990.5	946.1	932.6	922.5	913.3	909.9
30°	964.4	995.8	1039.6	1030.5	991.9	951.4	918.6	906.1	898.8	889.2	885.3
32.5°	945.6	979.9	1024.2	998.2	963.9	913.3	892.1	882.4	872.8	865.6	841.5
35°	926.3	965.9	1005.9	967.3	930.2	884.4	865.6	856.9	847.7	821.2	796.1
37.5°	906.6	950.4	983.7	934.0	885.3	854.5	838.6	828.9	808.2	774.4	761.9
40°	883.9	931.6	955.3	899.8	846.3	824.1	809.1	799.5	752.7	737.8	733.9
42.5°	861.2	913.3	920.5	866.5	814.0	791.8	779.3	747.4	715.6	707.9	709.3
45°	839.5	893.5	882.4	819.3	780.2	761.9	740.7	696.8	679.9	683.8	684.7
47.5°	813.5	869.9	842.4	772.0	745.5	727.2	679.9	653.4	651.0	656.3	659.2
50°	785.5	843.4	800.0	729.1	707.9	686.2	632.7	619.2	622.1	627.4	630.7
52.5°	759.5	813.5	756.1	689.1	670.8	621.1	584.9	587.3	592.2	598.4	600.4
55°	727.7	777.3	709.3	648.6	631.2	566.1	549.7	555.5	560.3	565.6	569.5
57.5°	694.4	735.9	653.9	603.2	575.3	517.4	518.9	522.7	526.1	532.4	219.9
60°	656.3	688.6	593.1	561.3	505.8	478.8	480.3	487.0	490.4	273.9	151.4
62.5°	616.7	633.6	538.1	513.6	442.2	440.3	447.0	449.9	306.2	144.7	141.8
65°	571.4	568.0	484.1	445.1	398.8	400.7	407.9	393.5	135.5	135.5	134.5
67.5°	521.3	501.0	431.6	368.4	356.8	361.2	368.9	128.7	125.4	126.3	123.0
70°	463.9	435.4	377.1	312.0	315.8	320.2	124.4	116.7	115.2	112.8	106.1
72.5°	403.1	364.1	308.6	271.0	273.4	171.7	109.0	105.1	100.3	95.5	88.2
75°	335.1	284.5	226.6	226.6	230.0	97.9	95.0	88.7	83.4	77.2	72.8
77.5°	262.8	218.9	176.0	182.8	89.2	82.0	76.7	69.9	65.6	61.7	59.3
80°	192.4	152.9	132.6	118.6	69.4	62.2	56.9	53.0	51.1	48.7	45.8
82.5°	126.3	92.1	92.1	55.9	48.7	42.9	41.5	38.6	36.6	35.2	33.8
85°	60.3	53.5	40.5	34.2	30.4	27.5	26.5	25.1	25.1	24.6	24.1
87.5°	22.2	24.1	17.8	17.4	16.4	15.9	16.4	16.4	16.9	16.4	15.9
90°	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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2
2.5°	1086.9	1090.8	1093.7	1098.5	1104.7	1110.0	1114.9	1121.6	1132.2	1135.1	1137.5
5°	1119.2	1120.7	1124.0	1127.9	1128.9	1131.3	1130.8	1133.7	1135.1	1138.5	1131.3
7.5°	1121.1	1113.4	1104.3	1096.1	1090.3	1085.0	1081.6	1086.9	1089.8	1092.2	1085.0
10°	1080.6	1071.5	1066.2	1061.3	1055.6	1047.4	1036.3	1038.7	1037.7	1037.7	1035.3
12.5°	1055.1	1042.1	1028.6	1016.5	1011.2	1010.7	1011.2	1016.5	1016.5	1016.0	1013.1
15°	1015.1	1002.5	995.8	992.9	992.9	991.4	991.4	997.2	995.8	995.8	994.3
17.5°	988.5	979.9	975.0	971.7	970.2	972.6	975.5	977.9	978.4	976.5	968.8
20°	966.8	958.6	952.8	953.8	953.3	954.8	956.2	948.0	937.9	924.4	918.1
22.5°	944.2	937.9	933.6	933.6	927.8	918.6	905.1	902.2	900.8	894.5	889.2
25°	922.5	915.2	909.0	889.7	877.6	879.1	876.7	871.8	871.4	870.9	872.8
27.5°	900.8	882.0	857.9	855.0	850.1	849.7	852.5	855.0	855.0	856.9	859.3
30°	855.9	834.2	829.9	824.6	826.5	833.3	834.7	838.1	839.0	842.4	844.3
32.5°	814.9	805.3	801.4	803.8	810.1	815.9	819.3	820.7	823.1	826.0	828.4
35°	781.7	778.8	782.1	787.4	793.7	798.5	801.4	804.3	806.7	809.1	811.1
37.5°	757.1	759.0	763.8	770.6	776.8	780.7	783.1	786.5	789.9	792.8	781.2
40°	733.9	738.7	744.0	751.3	756.6	760.4	762.9	767.2	738.3	334.2	183.2
42.5°	713.7	719.0	722.8	728.6	734.4	737.3	716.1	319.7	180.8	179.9	182.3
45°	689.1	693.4	699.7	704.0	709.3	465.8	177.9	179.9	177.0	178.9	179.9
47.5°	664.0	670.8	674.1	643.3	191.4	177.0	175.0	177.0	175.0	177.5	176.0
50°	635.6	643.7	458.1	173.1	171.7	170.7	172.6	171.7	173.1	175.0	171.2
52.5°	606.6	375.6	167.8	166.8	167.8	166.8	170.2	167.8	168.3	166.4	161.5
55°	205.4	162.5	161.1	160.6	163.5	163.5	163.5	159.6	157.2	152.4	149.0
57.5°	157.2	157.2	156.7	157.2	156.2	155.3	150.9	147.6	144.2	137.4	135.5
60°	149.0	149.0	149.0	149.0	144.7	142.7	136.0	133.1	127.3	123.9	122.0
62.5°	142.3	141.3	136.9	135.5	130.7	125.4	121.5	118.6	112.8	110.9	109.5
65°	132.6	129.2	123.9	118.1	115.7	109.9	108.0	103.7	100.8	99.3	98.4
67.5°	116.7	111.9	107.5	103.7	99.3	97.4	95.0	91.6	89.7	88.7	87.8
70°	99.8	96.4	92.1	89.7	86.8	85.4	82.0	81.0	79.6	78.1	76.7
72.5°	83.4	81.5	79.6	76.2	75.2	74.3	70.9	69.0	67.0	65.1	64.1
75°	69.9	68.5	67.5	64.6	63.2	60.3	57.9	56.4	55.0	53.5	52.6
77.5°	57.4	56.4	53.5	51.6	50.6	48.2	47.3	47.7	46.8	44.8	43.9
80°	44.8	43.9	41.5	41.5	40.5	39.5	38.6	37.6	36.6	35.2	34.2
82.5°	34.2	33.3	32.3	31.3	30.4	29.9	29.4	28.5	27.5	26.5	26.0
85°	24.1	23.6	23.1	22.7	22.2	21.7	21.2	20.3	19.3	18.8	18.3
87.5°	16.4	15.9	15.4	14.9	14.5	14.0	13.5	13.0	12.1	11.6	11.1
90°	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°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2
2.5°	1137.5	1139.9	1137.5	1132.2	1128.9	1127.4	1130.3	1130.3	1132.2	1134.6	1135.1
5°	1119.7	1113.9	1107.2	1100.4	1097.0	1095.1	1089.8	1090.8	1092.2	1093.2	1094.1
7.5°	1075.3	1067.6	1058.5	1049.8	1046.4	1043.5	1037.2	1037.2	1037.2	1037.7	1040.6
10°	1030.0	1026.6	1022.8	1017.0	1012.6	1011.2	1005.9	1007.3	1006.4	1007.8	1011.2
12.5°	1008.8	1004.9	1001.5	995.8	990.9	989.0	986.6	988.0	987.6	990.0	992.9
15°	989.5	987.6	983.7	979.4	975.0	971.2	962.5	959.6	957.7	955.3	958.6
17.5°	957.7	944.2	935.0	928.3	923.4	920.1	917.6	917.6	919.1	920.5	923.4
20°	914.3	910.4	906.1	898.8	894.0	892.1	890.6	890.6	893.1	895.0	900.3
22.5°	884.4	883.9	882.4	879.1	876.7	876.7	877.1	878.1	881.5	884.4	889.7
25°	870.4	872.3	871.4	869.4	868.0	868.5	867.5	868.5	871.8	874.7	879.1
27.5°	859.3	862.2	861.2	858.3	855.9	856.9	858.3	857.4	860.3	863.6	867.0
30°	844.3	844.8	846.8	843.4	842.4	843.9	844.3	845.3	848.2	850.6	853.5
32.5°	827.5	831.3	830.8	827.5	827.5	828.9	829.4	797.1	736.8	634.6	606.6
35°	811.1	815.4	808.2	681.4	471.6	251.7	194.3	187.6	189.0	190.0	191.0
37.5°	599.9	284.5	181.3	182.8	184.2	185.7	187.1	188.5	190.0	191.4	191.9
40°	180.3	179.9	181.3	183.2	184.7	185.7	187.6	189.0	190.5	191.9	192.4
42.5°	178.4	179.4	180.8	182.8	184.7	186.6	188.1	190.0	191.0	191.9	192.4
45°	177.5	179.4	181.3	182.8	184.2	185.2	186.1	186.6	186.1	186.1	187.1
47.5°	176.0	177.9	178.4	177.9	178.4	177.9	177.9	177.9	176.5	176.0	176.0
50°	170.7	170.7	169.7	167.8	167.3	166.8	165.9	165.4	163.5	163.0	163.0
52.5°	159.6	159.1	157.7	155.3	154.3	153.3	152.9	152.4	150.4	149.5	150.0
55°	146.6	145.6	144.2	141.3	140.8	139.8	139.4	138.9	136.9	137.9	136.5
57.5°	134.5	132.6	130.7	130.2	128.3	127.8	127.3	126.8	125.4	125.9	124.9
60°	120.1	119.6	118.6	116.7	116.7	116.2	116.2	115.2	114.3	113.8	113.8
62.5°	109.5	108.0	107.1	107.1	105.6	105.6	105.6	104.6	103.7	104.2	103.7
65°	97.9	97.4	96.9	96.0	96.0	95.5	95.5	94.5	93.1	93.5	92.6
67.5°	88.2	87.3	86.3	85.8	83.9	82.9	82.5	82.0	80.0	80.5	79.6
70°	76.2	74.7	73.8	72.8	71.4	70.4	70.4	69.4	68.0	68.5	67.5
72.5°	63.7	62.7	61.7	61.2	59.8	59.3	58.8	58.3	56.9	57.4	56.9
75°	53.0	53.0	52.6	52.1	50.6	49.2	48.2	47.7	46.8	47.3	46.3
77.5°	43.9	42.9	42.0	42.0	40.5	39.5	38.6	38.6	38.6	38.1	37.6
80°	34.2	33.3	33.3	32.8	31.8	30.9	30.4	30.4	29.9	29.9	29.4
82.5°	26.0	25.1	24.6	24.6	23.6	23.1	22.7	22.2	22.2	22.2	21.7
85°	18.3	17.4	16.9	16.9	15.9	15.4	15.4	14.9	14.9	14.5	14.5
87.5°	11.1	10.6	10.1	10.1	9.2	8.7	8.7	8.7	8.2	8.2	7.7
90°	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: 4SNLED-LD5-21SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2
2.5°	1135.1	1135.1	1131.7	1132.7	1131.3	1133.2	1130.8	1130.8	1133.7	1133.7	1135.6
5°	1094.6	1092.2	1091.7	1090.8	1085.9	1087.9	1085.5	1083.0	1086.4	1086.4	1090.8
7.5°	1039.2	1034.8	1036.8	1033.9	1031.0	1026.6	1028.1	1026.1	1028.6	1031.9	1036.3
10°	1010.7	1006.9	1009.3	1006.4	1007.8	1001.5	1002.0	1002.5	1004.9	1005.9	1009.7
12.5°	992.4	991.4	990.5	989.5	990.5	987.1	985.2	985.6	986.6	987.1	990.0
15°	953.8	947.5	949.5	942.7	943.2	943.7	939.8	943.7	943.2	949.5	955.3
17.5°	922.5	922.5	919.1	916.2	914.3	913.8	910.9	912.8	910.9	914.8	916.2
20°	900.8	900.3	899.8	898.4	893.5	894.0	895.5	891.1	890.6	890.2	893.1
22.5°	890.6	891.1	889.2	889.2	884.9	885.8	886.3	881.5	882.0	880.5	882.0
25°	880.0	881.0	878.6	878.6	877.6	877.1	874.7	875.7	872.8	870.4	872.8
27.5°	867.5	869.4	867.5	868.5	866.5	865.6	864.1	863.2	860.3	859.8	861.2
30°	855.9	856.9	856.4	854.0	853.5	850.6	852.1	849.2	846.3	846.8	847.7
32.5°	438.8	419.0	323.1	291.7	288.8	299.5	354.9	432.1	559.8	683.8	773.0
35°	191.4	191.4	191.4	191.0	191.0	190.5	190.0	189.5	189.0	188.5	188.1
37.5°	192.4	192.4	192.4	192.4	191.9	191.4	191.4	190.5	190.0	189.5	189.0
40°	192.9	193.4	193.4	193.4	192.9	192.9	192.4	191.4	191.0	190.0	189.0
42.5°	192.4	192.9	192.9	192.4	192.4	191.9	191.9	191.4	191.0	190.5	190.0
45°	186.1	186.6	185.7	185.7	185.2	185.2	185.2	185.2	185.2	185.7	185.7
47.5°	175.0	175.0	174.6	174.1	174.1	173.6	174.1	173.6	174.6	175.0	176.0
50°	162.0	162.0	161.1	160.6	160.6	160.6	160.6	161.1	161.5	162.5	163.5
52.5°	148.5	148.5	148.0	147.6	147.1	147.1	148.5	148.0	148.5	149.0	150.4
55°	135.5	136.0	135.0	135.0	134.5	134.5	134.5	135.0	135.5	136.0	137.4
57.5°	124.4	124.4	123.4	123.4	123.4	123.0	124.4	123.4	123.9	124.4	125.4
60°	113.3	112.8	112.8	112.4	112.4	112.4	113.3	112.8	112.8	113.3	114.3
62.5°	103.2	103.2	102.7	102.7	102.2	102.2	103.2	102.7	102.7	103.2	103.7
65°	91.6	91.6	91.1	90.7	92.1	90.7	92.1	91.1	92.1	92.6	93.5
67.5°	78.6	78.6	78.6	78.1	78.1	79.1	79.6	78.6	79.1	80.0	80.5
70°	67.0	67.0	66.5	66.5	66.5	67.5	68.0	67.0	67.5	68.0	69.0
72.5°	56.9	55.9	55.9	55.5	56.4	56.4	56.9	56.4	56.9	56.9	57.9
75°	46.8	45.8	45.8	45.8	46.8	46.3	46.8	46.3	46.8	46.8	47.3
77.5°	37.6	37.1	36.6	36.6	37.6	37.6	37.6	37.1	37.6	38.1	38.6
80°	29.4	28.9	28.5	28.5	29.4	29.4	29.4	29.9	29.4	29.9	30.4
82.5°	21.7	21.2	20.7	21.7	21.7	21.7	21.7	22.2	21.7	22.2	22.7
85°	14.5	14.0	13.5	14.5	14.5	14.5	14.5	14.9	14.5	14.9	15.4
87.5°	7.7	7.2	7.2	7.7	7.7	7.7	8.2	8.2	8.2	8.7	8.7
90°	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: 4SNLED-LD5-21SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2
2.5°	1138.5	1139.9	1139.5	1136.6	1133.7	1130.3	1127.9	1128.4	1133.2	1134.6	1130.3
5°	1090.8	1099.9	1099.9	1106.2	1102.8	1099.9	1101.8	1112.5	1117.8	1126.0	1128.9
7.5°	1041.6	1045.9	1045.4	1051.7	1050.7	1050.7	1052.2	1066.2	1072.9	1079.7	1081.6
10°	1014.1	1018.4	1017.9	1018.4	1017.0	1013.6	1013.6	1019.9	1025.7	1029.0	1030.0
12.5°	994.3	996.7	996.2	996.2	995.3	992.4	991.9	997.2	1003.5	1007.8	1008.3
15°	964.9	971.7	973.1	979.4	977.9	974.1	975.0	979.4	983.2	987.1	985.6
17.5°	921.0	924.4	924.9	927.3	926.3	926.3	932.1	948.0	958.6	967.8	968.8
20°	895.9	898.4	897.4	902.7	900.3	899.8	901.2	908.0	912.8	917.2	924.9
22.5°	883.9	885.8	884.4	884.9	880.5	876.7	875.7	881.0	886.3	892.1	892.1
25°	873.8	875.2	874.7	873.8	870.4	865.1	864.1	865.1	867.0	867.5	864.1
27.5°	861.7	862.7	862.7	863.2	858.8	854.0	853.0	852.1	854.0	853.5	848.2
30°	849.2	847.7	848.2	848.7	844.8	840.5	838.6	838.1	840.0	839.5	834.2
32.5°	819.3	830.4	831.3	832.3	828.9	825.1	823.1	821.7	822.6	822.2	817.3
35°	187.6	191.0	233.9	529.5	719.0	796.1	804.3	802.4	802.9	802.9	799.0
37.5°	188.1	187.6	187.1	185.7	184.2	183.2	316.8	675.6	782.6	783.1	779.7
40°	188.1	187.6	187.1	186.1	184.2	182.8	180.3	178.4	182.8	402.2	735.9
42.5°	189.0	188.1	187.1	186.1	184.2	182.3	180.3	177.9	179.4	178.4	176.0
45°	186.1	185.7	185.7	185.2	184.2	182.3	179.9	177.0	175.5	177.0	174.6
47.5°	177.0	177.5	178.9	179.4	179.4	179.9	178.4	176.5	174.1	175.5	172.6
50°	164.4	165.4	165.9	168.3	169.3	171.2	171.7	171.7	171.2	173.1	171.2
52.5°	150.9	151.9	154.3	155.3	156.2	159.1	160.1	161.5	162.5	165.4	167.3
55°	137.9	138.4	139.4	141.3	142.7	145.1	146.6	148.0	150.4	151.9	157.7
57.5°	125.9	126.3	128.3	128.7	129.7	131.6	133.1	135.0	136.9	137.9	144.7
60°	114.3	114.8	116.2	116.7	117.2	119.1	120.6	122.0	123.4	124.4	129.2
62.5°	104.2	104.2	105.6	105.6	106.1	107.5	108.5	109.5	110.9	111.4	113.8
65°	94.0	94.5	95.5	95.5	96.0	96.9	97.4	97.9	99.3	99.3	101.3
67.5°	81.5	82.0	83.4	84.4	84.9	86.8	87.3	87.8	88.7	89.2	90.2
70°	69.4	69.9	71.4	71.8	72.3	73.8	74.7	76.2	77.6	79.1	80.0
72.5°	58.3	58.8	60.3	60.3	61.7	62.2	63.2	63.7	65.1	66.1	67.5
75°	47.7	48.2	49.7	49.7	51.1	51.6	52.1	52.6	53.5	54.5	55.5
77.5°	39.1	39.1	41.0	42.0	42.9	42.9	43.4	43.4	43.4	43.9	44.8
80°	30.9	30.9	32.3	33.3	34.2	34.2	34.7	35.2	35.7	35.7	36.2
82.5°	23.1	23.1	24.6	25.1	26.0	26.0	26.0	26.5	27.0	26.5	27.5
85°	15.9	15.9	16.9	17.4	18.3	18.3	18.3	18.8	19.3	18.8	19.3
87.5°	9.2	9.6	10.1	10.6	11.1	11.6	11.6	11.6	12.1	12.1	12.5
90°	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: 4SNLED-LD5-21SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2
2.5°	1125.5	1119.7	1119.2	1112.5	1110.5	1111.0	1105.7	1103.8	1095.1	1093.2	1084.0
5°	1129.8	1132.7	1131.3	1130.8	1132.2	1131.3	1127.4	1125.5	1124.0	1120.2	1112.5
7.5°	1082.1	1084.0	1085.5	1091.7	1097.0	1106.2	1115.8	1122.1	1126.9	1127.9	1121.6
10°	1033.4	1042.5	1048.8	1058.5	1066.2	1071.5	1077.3	1082.6	1096.5	1110.5	1118.7
12.5°	1008.3	1010.7	1010.2	1015.5	1020.8	1034.8	1048.3	1056.0	1066.6	1072.9	1087.9
15°	987.1	987.6	989.0	992.9	995.8	1000.6	1006.9	1018.4	1039.6	1049.3	1057.5
17.5°	967.8	967.8	968.8	972.1	976.0	980.3	984.2	989.0	999.6	1015.5	1035.8
20°	936.9	950.4	951.9	951.4	953.3	961.5	962.5	971.2	976.5	982.7	1002.5
22.5°	891.1	899.3	910.9	928.7	935.5	939.3	942.2	946.1	954.3	961.5	969.7
25°	866.0	871.4	874.7	880.0	894.0	916.7	921.0	925.4	930.7	936.0	946.1
27.5°	843.9	843.4	845.8	850.6	854.5	866.5	887.7	904.6	905.6	913.3	922.0
30°	828.0	825.1	821.7	820.7	826.0	832.3	838.6	865.1	883.4	887.3	896.4
32.5°	813.0	808.2	803.4	799.5	796.1	801.4	805.3	816.9	840.5	862.7	867.5
35°	794.7	789.9	784.1	779.7	774.4	773.9	773.5	784.6	792.3	818.8	841.9
37.5°	775.9	770.6	765.7	760.9	755.6	751.8	749.4	752.2	759.5	771.1	809.6
40°	756.1	749.8	745.0	741.2	733.9	731.0	726.2	724.3	724.8	734.9	755.1
42.5°	451.8	720.4	722.8	718.5	712.2	708.4	703.1	700.7	695.8	700.7	712.2
45°	174.1	176.0	527.1	696.3	688.6	683.8	679.0	676.5	671.2	667.4	678.0
47.5°	170.7	172.6	168.8	239.2	657.3	658.7	652.9	650.5	645.2	642.3	639.4
50°	168.3	169.7	166.8	167.8	164.4	602.3	626.4	623.5	617.7	614.3	608.5
52.5°	165.9	165.9	164.0	161.5	160.6	161.1	506.8	596.0	589.3	585.9	578.2
55°	158.2	159.1	161.1	157.2	156.2	155.8	154.3	482.7	557.9	554.1	547.3
57.5°	146.6	148.5	153.8	152.9	152.9	149.0	148.0	148.0	448.0	521.8	515.0
60°	133.1	135.0	140.8	142.7	144.2	143.2	142.3	141.8	139.8	472.1	480.8
62.5°	119.1	121.0	123.0	129.2	131.2	133.6	136.5	135.0	133.1	133.1	444.6
65°	104.2	107.1	108.0	113.8	116.2	120.6	123.0	126.3	125.4	124.9	127.3
67.5°	91.1	94.5	95.0	97.4	101.7	103.7	106.6	112.8	115.7	116.7	117.7
70°	80.0	82.0	83.4	84.4	87.3	87.8	93.1	97.4	101.7	106.6	108.0
72.5°	69.0	70.4	73.3	72.3	73.3	75.2	78.1	81.0	85.4	92.1	96.4
75°	56.4	57.4	59.3	60.3	62.2	63.7	65.6	68.0	71.8	75.2	81.0
77.5°	45.3	45.8	47.3	47.7	49.7	51.1	54.5	55.9	58.3	60.8	64.1
80°	36.6	36.6	37.1	37.1	38.6	40.0	42.4	43.9	46.8	48.7	48.7
82.5°	28.0	28.0	29.4	29.4	30.4	30.4	31.8	31.8	33.3	34.2	35.2
85°	19.8	20.3	21.2	20.7	21.7	21.2	22.2	23.1	23.6	23.1	22.7
87.5°	13.0	13.0	14.0	13.5	14.0	14.0	14.9	14.9	15.4	15.4	14.9
90°	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: 4SNLED-LD5-21SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2
2.5°	1080.6	1073.4	1069.1	1063.8	1062.3	1060.9	1062.8	1062.8	1059.9	1057.5	1053.1
5°	1105.7	1098.0	1089.8	1081.1	1072.9	1064.2	1060.9	1060.4	1055.1	1052.2	1050.7
7.5°	1118.7	1114.9	1105.7	1093.7	1081.1	1065.7	1058.9	1055.1	1049.8	1048.8	1048.8
10°	1120.2	1115.8	1111.0	1102.3	1087.9	1067.6	1054.6	1046.9	1042.1	1045.4	1051.7
12.5°	1106.2	1114.4	1110.0	1104.3	1092.7	1068.1	1049.3	1037.7	1036.3	1044.9	1061.3
15°	1070.5	1094.6	1106.7	1100.9	1091.7	1067.1	1040.6	1027.1	1027.1	1044.9	1066.2
17.5°	1043.5	1062.3	1091.7	1096.5	1085.9	1065.2	1032.4	1016.5	1020.8	1046.9	1069.5
20°	1021.3	1032.9	1061.3	1088.3	1078.2	1060.9	1020.4	1004.0	1012.6	1044.0	1074.4
22.5°	986.6	1009.7	1027.1	1067.1	1070.5	1052.7	1008.3	988.5	1005.9	1044.0	1072.0
25°	952.8	980.8	999.1	1038.2	1058.9	1042.5	997.2	972.1	998.7	1042.5	1070.0
27.5°	929.2	942.2	975.5	1003.5	1041.6	1029.0	982.3	954.3	989.5	1034.8	1058.9
30°	904.1	912.8	945.6	972.1	1018.4	1013.6	966.8	934.5	977.9	1027.6	1030.0
32.5°	876.7	886.3	903.2	941.8	986.1	999.1	949.5	914.8	965.4	1016.5	996.2
35°	848.7	855.9	869.4	910.9	948.5	977.4	928.3	892.1	956.7	999.6	963.9
37.5°	820.7	828.4	840.0	874.7	909.0	957.2	909.9	869.4	940.8	969.7	930.2
40°	794.2	798.5	810.6	832.3	876.2	936.5	889.2	845.8	924.4	931.6	884.4
42.5°	745.5	767.2	778.3	795.6	839.0	908.0	865.1	820.7	906.1	893.5	838.6
45°	692.9	740.2	745.0	762.4	806.3	877.6	842.4	796.1	888.7	860.7	795.2
47.5°	650.0	684.3	712.2	726.7	767.2	841.9	821.2	775.4	862.7	819.3	752.7
50°	611.9	630.2	680.9	691.5	720.4	799.0	796.1	751.3	826.5	767.2	711.3
52.5°	574.8	587.8	633.6	656.3	679.9	752.7	766.2	727.7	787.0	715.1	669.3
55°	542.5	546.8	571.9	619.6	640.9	706.0	733.4	700.2	736.8	665.4	628.8
57.5°	509.2	505.4	523.7	584.9	600.4	658.2	698.7	672.2	696.3	614.8	586.8
60°	474.5	469.2	476.9	517.4	557.4	611.0	657.7	641.3	647.1	564.7	540.1
62.5°	438.3	433.0	430.6	456.2	515.5	562.3	616.3	607.1	586.8	518.9	482.2
65°	400.7	395.4	391.6	401.7	469.2	499.1	570.0	567.6	520.8	470.6	406.0
67.5°	122.0	359.7	351.5	351.0	395.4	441.7	519.8	516.0	454.2	419.0	349.6
70°	109.9	291.7	310.1	305.7	325.0	383.4	462.4	459.5	389.6	336.1	309.1
72.5°	100.8	103.2	273.9	269.1	273.4	326.0	402.6	394.9	330.3	265.2	267.1
75°	86.3	90.7	94.5	227.1	221.3	270.0	337.5	325.5	272.4	218.9	223.3
77.5°	70.4	75.7	78.6	165.4	178.9	192.4	269.6	253.6	187.6	175.0	83.4
80°	52.6	56.9	61.7	66.1	136.0	134.5	200.1	184.2	130.7	109.0	65.1
82.5°	38.6	40.0	42.9	47.7	54.0	90.2	128.7	113.3	90.7	49.7	44.8
85°	24.1	26.0	27.5	28.9	32.8	54.0	63.7	50.6	38.1	30.4	28.5
87.5°	15.4	15.4	14.9	15.4	15.9	19.3	21.7	20.7	16.4	15.4	15.4
90°	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: 4SNLED-LD5-21SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2
2.5°	1048.3	1041.6	1041.6	1039.6	1041.1	1041.1	1040.6	1041.1	1044.5	1046.4	1049.8
5°	1047.8	1045.9	1050.3	1055.6	1061.8	1069.5	1071.5	1078.2	1084.5	1092.7	1101.4
7.5°	1054.1	1060.9	1069.1	1077.7	1090.3	1099.4	1107.6	1115.8	1121.6	1129.3	1134.2
10°	1063.3	1076.8	1090.8	1101.8	1115.4	1123.1	1128.4	1129.3	1121.1	1108.1	1097.5
12.5°	1076.3	1092.2	1105.2	1115.8	1122.1	1119.2	1103.8	1087.9	1078.7	1065.2	1046.4
15°	1087.4	1101.8	1115.4	1111.0	1094.1	1078.2	1066.2	1047.4	1029.0	1016.5	1008.3
17.5°	1092.2	1106.2	1101.4	1078.7	1062.8	1044.5	1019.9	1005.4	993.4	983.7	978.9
20°	1095.1	1092.7	1066.6	1050.3	1019.4	1002.5	986.6	973.1	963.9	959.1	958.2
22.5°	1087.4	1058.0	1035.8	1006.4	983.7	969.7	957.2	946.1	939.8	936.0	933.6
25°	1061.8	1027.6	994.8	971.7	952.4	940.3	930.7	921.5	913.8	911.9	907.0
27.5°	1026.1	998.2	954.8	936.9	920.1	914.3	903.7	894.5	887.7	882.0	866.5
30°	996.7	952.4	921.0	904.6	894.5	887.7	875.7	866.0	854.5	833.3	824.6
32.5°	960.6	916.7	886.8	877.6	865.1	859.3	845.8	824.6	806.7	798.1	797.6
35°	913.8	877.6	855.9	847.7	837.6	828.0	800.0	780.7	772.0	773.0	780.2
37.5°	874.7	842.4	828.4	816.9	805.3	780.7	757.1	747.9	750.3	755.1	758.5
40°	835.2	810.6	794.7	785.5	759.5	735.4	722.8	726.2	730.5	733.9	738.3
42.5°	796.6	779.3	763.3	745.5	709.8	696.8	699.7	704.0	707.9	712.7	717.0
45°	760.0	744.5	726.2	685.7	667.9	671.2	675.6	679.0	684.7	688.1	692.5
47.5°	725.2	708.8	676.5	640.9	638.9	645.7	649.5	653.9	658.2	649.5	358.3
50°	686.2	669.3	620.1	606.6	611.0	617.2	622.1	626.4	557.9	221.8	170.7
52.5°	647.6	604.7	573.3	577.2	581.5	588.8	592.2	439.8	175.0	166.8	167.3
55°	604.7	549.7	540.6	545.4	549.2	556.5	368.9	161.5	160.6	160.1	164.0
57.5°	537.2	503.9	507.8	512.6	516.4	364.6	157.2	156.2	156.7	157.2	157.7
60°	476.9	469.7	474.0	478.4	338.5	151.9	149.0	149.5	151.4	150.0	146.1
62.5°	429.2	435.0	439.3	384.8	144.2	142.7	144.2	142.7	139.4	136.9	132.1
65°	392.5	398.3	401.7	135.5	135.0	136.9	135.5	130.7	125.4	118.6	117.2
67.5°	353.9	359.7	128.7	125.4	127.3	124.9	119.1	113.3	109.5	103.7	101.3
70°	313.9	134.5	116.7	116.2	112.8	109.0	102.7	96.9	92.1	89.7	87.3
72.5°	226.6	106.6	105.1	101.3	95.5	90.2	84.9	81.5	79.1	77.6	76.2
75°	94.5	92.6	88.2	81.5	75.7	73.3	69.4	67.0	66.1	63.2	62.2
77.5°	79.1	75.2	69.0	64.1	60.8	59.3	56.4	53.5	52.1	51.6	49.7
80°	60.8	55.5	52.6	50.1	49.2	45.8	42.4	41.0	40.0	39.5	38.1
82.5°	41.5	39.5	37.6	34.2	34.2	32.8	31.3	30.4	29.4	29.4	28.5
85°	27.0	25.6	25.1	23.6	23.6	22.7	22.2	21.7	21.2	20.7	20.3
87.5°	15.4	15.4	15.9	15.4	15.4	14.9	14.5	14.0	13.5	13.5	12.5
90°	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: 4SNLED-LD5-21SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2
2.5°	1054.1	1058.9	1059.9	1076.3	1085.5	1085.0	1082.1	1090.8	1085.5	1082.6	1085.5
5°	1110.0	1115.8	1120.7	1138.5	1144.8	1147.7	1147.2	1152.0	1148.1	1144.8	1144.8
7.5°	1137.5	1139.5	1141.4	1137.1	1134.2	1129.3	1122.1	1111.5	1106.2	1100.4	1093.2
10°	1092.2	1085.9	1088.3	1079.7	1072.4	1067.1	1060.4	1051.7	1044.5	1039.2	1031.0
12.5°	1036.8	1036.3	1037.2	1038.7	1031.4	1027.1	1021.8	1015.5	1010.2	1004.4	997.7
15°	1003.0	1003.5	1007.3	1005.9	1003.5	1001.1	995.3	993.4	988.5	982.3	978.4
17.5°	978.9	981.3	985.2	983.2	979.4	977.0	972.6	968.3	963.9	959.1	953.3
20°	957.7	960.1	962.5	960.1	952.8	949.5	943.7	930.2	920.5	910.9	902.2
22.5°	934.5	936.0	934.0	926.3	908.0	899.3	892.6	888.7	880.5	875.2	869.9
25°	905.6	897.4	884.9	876.2	868.9	865.1	862.2	861.7	860.7	859.8	857.4
27.5°	858.3	855.4	848.7	845.3	845.8	847.2	847.7	849.2	847.7	845.8	843.9
30°	823.1	824.6	825.1	826.0	828.4	829.9	830.4	832.3	831.3	829.9	828.9
32.5°	801.0	804.3	806.3	809.1	810.6	813.0	813.0	815.9	813.0	812.5	811.6
35°	782.6	785.5	786.5	790.8	792.3	794.7	794.7	797.1	794.7	770.1	608.1
37.5°	764.3	767.2	769.1	773.0	773.5	774.9	715.1	523.2	337.5	261.4	199.6
40°	742.6	746.0	747.9	749.4	526.6	334.2	230.0	187.1	187.1	188.5	190.0
42.5°	719.5	721.9	502.9	292.7	182.3	181.8	183.2	184.7	186.1	188.1	190.0
45°	565.6	285.5	181.3	177.0	178.4	180.3	182.3	184.2	186.6	188.5	189.5
47.5°	185.7	174.1	176.5	174.6	177.0	179.4	181.3	183.2	183.7	184.2	183.7
50°	171.7	171.7	173.1	173.1	175.0	176.0	176.0	176.0	174.1	173.6	172.1
52.5°	165.9	169.7	167.8	168.8	167.8	166.4	164.9	163.5	160.6	159.6	157.7
55°	163.0	164.4	159.6	158.2	156.2	152.4	150.4	148.5	146.1	145.1	142.7
57.5°	156.2	152.9	147.6	145.1	141.8	137.9	136.0	134.5	132.1	131.2	129.7
60°	143.7	136.9	133.6	130.7	126.8	123.4	122.0	121.0	119.1	118.6	117.2
62.5°	128.3	122.5	119.6	115.7	112.8	110.9	109.5	109.0	107.1	107.1	106.1
65°	111.4	108.5	106.1	102.2	100.8	98.9	98.4	97.9	96.9	96.4	95.5
67.5°	97.9	96.0	92.6	90.7	89.7	88.2	87.3	86.3	84.4	83.4	82.0
70°	85.8	84.4	81.0	79.6	77.6	75.2	73.8	72.8	71.4	70.4	69.0
72.5°	74.3	69.9	67.5	66.1	64.6	62.2	61.7	60.8	59.3	58.8	57.4
75°	59.8	56.4	55.0	54.0	52.6	51.1	51.1	51.1	49.7	49.2	48.7
77.5°	47.7	45.8	44.8	43.9	43.4	42.4	41.0	40.5	39.1	39.1	38.6
80°	36.6	35.7	34.7	34.2	33.8	32.8	31.8	31.3	29.9	29.9	29.4
82.5°	27.0	26.5	26.0	25.6	25.1	24.6	23.1	22.7	21.7	21.7	21.2
85°	19.3	18.8	17.8	17.4	17.4	16.9	15.4	14.9	14.0	14.0	14.0
87.5°	12.1	11.6	11.1	10.6	10.1	9.6	8.7	8.2	8.2	7.2	6.8
90°	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: 4SNLED-LD5-21SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2
2.5°	1079.7	1087.9	1086.9	1092.7	1094.1	1097.0	1098.0	1098.5	1091.2	1097.0	1097.5
5°	1143.3	1144.8	1145.7	1148.1	1150.6	1151.0	1148.6	1145.7	1146.7	1144.8	1139.9
7.5°	1092.2	1085.0	1083.5	1081.6	1080.6	1079.7	1075.3	1079.2	1074.8	1072.9	1066.2
10°	1029.5	1022.8	1022.3	1022.3	1023.7	1023.2	1022.3	1020.4	1024.2	1021.8	1020.4
12.5°	996.7	994.3	995.8	994.8	998.7	999.6	998.7	998.7	997.7	995.8	996.7
15°	977.0	975.0	976.5	975.0	977.9	978.4	976.0	977.4	975.0	972.6	971.7
17.5°	950.9	946.6	943.2	938.4	938.9	937.9	935.0	935.0	932.6	926.3	926.8
20°	900.8	896.4	894.5	894.5	896.9	897.9	897.4	898.4	895.9	895.0	891.1
22.5°	869.4	868.9	869.9	872.3	876.2	881.5	882.0	882.0	882.0	881.5	876.7
25°	858.3	858.3	859.3	862.7	865.6	869.4	870.4	871.4	870.4	870.4	866.0
27.5°	845.8	844.8	846.8	850.1	853.5	856.4	858.8	859.3	857.9	857.9	859.3
30°	830.4	829.9	832.3	835.7	838.6	841.5	843.9	845.8	843.9	843.9	842.4
32.5°	814.5	814.5	815.4	795.2	737.3	664.0	665.4	623.0	593.6	556.5	605.7
35°	508.2	369.9	317.8	269.1	234.8	212.7	212.2	204.9	201.6	199.2	198.7
37.5°	191.9	192.9	194.8	195.8	197.2	198.2	198.7	198.7	198.7	198.7	198.2
40°	191.4	193.4	194.8	196.3	197.7	198.7	198.7	199.2	199.6	199.6	199.6
42.5°	191.9	193.8	195.8	197.2	198.2	198.7	199.2	199.6	199.6	199.6	199.6
45°	191.4	192.4	192.4	192.9	192.9	192.9	193.4	193.4	192.9	192.4	193.4
47.5°	184.2	184.2	182.8	182.3	181.8	180.8	181.3	180.8	180.3	179.9	180.8
50°	171.7	169.7	168.8	167.8	167.3	166.4	166.8	166.4	165.9	164.9	166.4
52.5°	156.7	156.2	154.3	153.3	152.9	153.3	152.4	151.9	151.4	150.9	151.4
55°	142.3	140.3	139.8	138.9	138.4	138.9	138.4	137.9	137.4	136.9	137.4
57.5°	129.2	127.8	127.3	126.3	126.3	126.3	126.3	125.9	125.4	124.9	125.4
60°	116.7	115.7	115.2	115.2	114.8	114.8	114.8	114.3	113.8	113.8	114.3
62.5°	106.1	106.1	104.6	104.2	104.2	104.6	104.2	103.7	103.2	102.7	103.7
65°	95.0	93.1	92.6	91.6	90.7	91.1	90.7	90.2	89.7	89.2	90.2
67.5°	81.5	81.0	79.1	78.1	77.6	78.1	77.6	77.2	76.7	76.2	77.2
70°	68.5	68.5	66.5	66.1	65.6	65.6	65.1	65.1	64.6	64.1	65.1
72.5°	56.9	56.9	56.4	55.5	55.0	54.5	54.0	53.5	53.5	54.0	54.0
75°	47.3	46.3	44.4	44.8	44.4	43.9	43.9	43.4	42.9	43.9	43.4
77.5°	37.1	36.6	35.2	35.7	35.2	34.7	34.7	34.2	33.8	34.2	34.2
80°	28.0	28.0	27.5	27.0	27.0	26.5	26.0	26.0	25.6	26.0	26.0
82.5°	20.3	20.3	19.8	19.3	18.8	18.8	18.3	18.3	18.3	18.3	18.3
85°	13.0	12.5	12.5	11.6	11.6	11.6	11.1	11.1	11.1	11.1	11.1
87.5°	6.3	6.3	5.8	5.8	5.3	4.8	4.8	4.3	4.3	4.8	4.8
90°	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: 4SNLED-LD5-21SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2
2.5°	1088.8	1095.1	1089.8	1092.2	1092.7	1100.9	1100.4	1102.3	1099.0	1095.1	1089.8
5°	1144.3	1141.4	1137.5	1146.7	1141.9	1147.7	1149.6	1153.4	1153.4	1153.0	1148.6
7.5°	1073.4	1067.1	1072.0	1075.3	1076.8	1072.9	1080.6	1089.3	1096.5	1100.9	1101.4
10°	1017.9	1019.9	1019.4	1020.8	1024.2	1023.7	1028.6	1033.4	1035.3	1038.2	1039.2
12.5°	991.9	991.4	992.4	995.8	997.7	997.2	1002.0	1004.9	1005.9	1006.4	1005.9
15°	971.2	967.8	970.2	970.7	972.1	972.1	977.9	982.3	984.2	985.2	984.2
17.5°	932.1	923.9	931.6	931.6	936.9	936.0	945.1	952.4	956.2	959.1	959.1
20°	893.5	889.7	892.6	891.6	895.5	895.0	900.8	905.6	909.0	911.4	914.3
22.5°	878.1	879.1	874.7	875.2	875.2	874.7	877.6	880.0	881.0	882.4	881.5
25°	868.0	868.9	867.5	865.1	864.1	865.1	866.5	869.4	869.9	868.9	865.6
27.5°	857.9	855.0	857.4	853.0	852.1	854.0	855.9	856.4	856.9	856.9	854.0
30°	842.4	840.0	842.4	840.5	838.6	840.5	841.9	841.9	842.9	843.4	840.0
32.5°	588.8	593.6	671.7	719.0	785.5	819.3	825.5	825.5	826.5	826.5	823.6
35°	200.6	201.1	217.5	235.8	274.9	323.1	386.2	419.0	529.9	662.6	790.8
37.5°	198.2	197.7	197.2	196.7	196.3	195.8	194.8	194.3	197.2	233.9	317.3
40°	199.2	198.7	197.7	197.2	196.7	195.8	195.3	194.3	193.4	192.4	191.4
42.5°	199.2	198.7	198.2	197.7	197.2	196.7	195.8	194.8	193.8	192.4	191.0
45°	192.4	192.4	192.9	192.9	193.4	193.4	193.4	192.9	192.9	192.4	190.5
47.5°	179.9	179.9	181.3	181.3	182.3	183.2	183.2	184.2	185.7	186.6	187.1
50°	165.4	165.4	166.8	167.3	168.3	169.7	171.2	171.7	173.1	175.0	177.0
52.5°	150.9	150.9	152.4	152.4	153.3	154.8	156.2	156.7	158.6	160.6	163.0
55°	137.4	137.4	138.4	138.9	139.4	140.3	141.8	141.8	143.7	145.1	147.6
57.5°	125.4	126.3	126.3	126.3	126.8	127.8	128.7	128.7	130.2	131.6	133.6
60°	113.8	114.8	114.8	114.8	115.2	115.7	116.7	116.7	117.7	118.6	120.6
62.5°	103.2	104.2	104.2	104.6	104.6	105.1	106.1	105.6	106.6	107.1	108.5
65°	89.7	90.7	91.1	91.6	92.1	93.1	94.5	94.0	95.5	96.4	97.9
67.5°	76.7	77.6	77.6	78.1	78.6	79.6	80.5	80.5	82.0	82.9	84.9
70°	64.6	65.6	65.6	66.1	66.5	67.5	68.5	68.0	69.4	70.4	71.8
72.5°	53.5	54.5	54.5	55.0	55.0	55.9	56.9	57.9	57.9	58.8	59.8
75°	43.4	43.9	44.4	44.4	44.8	45.3	46.3	47.3	47.7	48.2	49.2
77.5°	34.2	34.7	35.2	35.2	35.7	36.2	36.6	38.6	39.5	40.0	40.0
80°	26.0	26.5	26.5	26.5	27.0	27.5	28.5	28.5	30.4	30.4	30.9
82.5°	18.3	18.8	18.8	18.8	19.3	20.3	20.7	21.2	22.2	22.7	22.7
85°	11.1	11.6	11.6	11.6	12.1	12.5	13.5	14.0	14.5	14.5	14.9
87.5°	4.3	4.8	5.3	5.3	5.8	6.3	6.8	7.2	7.7	7.7	8.2
90°	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: 4SNLED-LD5-21SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2
2.5°	1084.0	1087.4	1084.0	1085.9	1088.3	1084.0	1073.9	1070.0	1068.6	1062.8	1058.9
5°	1144.3	1144.3	1142.8	1146.7	1146.2	1139.5	1128.9	1124.0	1119.2	1112.9	1108.1
7.5°	1101.4	1105.2	1107.6	1122.6	1132.2	1133.2	1139.9	1141.4	1143.3	1141.4	1138.5
10°	1039.6	1038.2	1044.9	1058.9	1067.1	1071.5	1084.5	1090.8	1096.1	1106.7	1117.8
12.5°	1004.9	1006.9	1009.7	1019.9	1027.6	1025.7	1031.0	1035.3	1041.6	1052.2	1068.1
15°	981.8	983.7	986.6	994.3	999.1	996.7	999.6	1002.5	1006.9	1012.2	1021.8
17.5°	956.7	960.1	963.5	971.7	976.0	975.5	977.9	978.9	980.3	983.7	990.5
20°	917.6	928.3	935.0	946.1	952.4	951.4	955.7	957.2	959.1	962.5	965.4
22.5°	882.0	884.9	888.2	900.3	910.9	923.9	926.8	930.7	935.5	938.9	941.8
25°	861.7	859.8	861.2	869.4	875.2	876.2	880.5	893.1	906.1	911.9	918.6
27.5°	849.7	847.7	847.2	851.1	852.1	849.7	848.7	852.5	862.2	871.8	892.1
30°	836.6	834.2	832.3	835.7	837.1	833.7	827.5	824.1	829.9	832.3	840.5
32.5°	821.2	818.8	817.8	819.8	820.7	817.8	811.1	807.2	806.3	804.3	806.3
35°	803.8	801.4	800.0	800.5	802.4	800.0	794.2	789.4	787.0	781.7	777.8
37.5°	414.2	586.8	761.9	780.2	782.1	781.7	775.9	770.6	768.2	761.9	760.0
40°	189.5	211.7	317.8	415.2	598.9	760.9	755.6	750.3	746.0	744.0	736.8
42.5°	189.0	189.5	190.0	187.6	232.4	395.9	584.4	729.6	726.7	721.9	716.6
45°	189.0	186.6	188.5	185.7	186.6	186.1	231.9	374.2	665.9	695.8	693.4
47.5°	187.1	185.7	187.6	185.2	182.3	183.7	181.8	184.2	287.4	487.5	667.9
50°	178.4	179.4	182.8	182.3	179.9	181.8	178.4	181.3	178.9	196.3	378.1
52.5°	165.4	167.3	170.7	173.6	174.6	177.0	176.0	177.0	175.0	175.5	176.0
55°	150.0	152.4	155.3	159.6	161.5	165.4	168.3	169.7	172.1	171.7	167.8
57.5°	135.5	137.9	140.3	144.7	149.0	150.9	156.2	159.1	165.4	164.0	163.0
60°	122.0	123.9	126.3	127.3	132.6	136.0	140.8	143.7	151.9	153.8	156.7
62.5°	109.9	110.9	112.8	114.3	117.7	121.0	123.4	128.3	132.6	138.9	143.2
65°	98.9	99.8	101.3	102.2	102.7	107.5	109.0	114.3	115.7	122.5	126.3
67.5°	86.3	88.2	90.2	91.1	92.1	95.0	96.0	98.4	101.7	104.6	109.5
70°	73.3	74.7	76.7	78.1	80.0	82.0	84.9	86.3	88.7	90.7	94.5
72.5°	61.2	62.7	63.7	65.1	66.5	68.0	70.4	73.8	75.7	79.1	80.0
75°	49.7	51.1	52.1	53.0	54.5	55.5	56.4	59.8	61.7	64.6	67.5
77.5°	41.0	41.0	42.0	44.8	44.4	44.4	45.3	47.3	48.7	50.6	53.5
80°	31.8	32.3	32.8	35.2	35.7	36.2	35.7	37.1	38.6	39.1	41.0
82.5°	23.6	24.1	24.1	25.6	27.0	27.0	27.0	27.5	28.9	29.4	30.4
85°	15.9	16.4	16.9	17.4	18.3	18.8	19.3	19.3	20.3	20.7	21.2
87.5°	8.7	9.6	10.1	10.6	11.1	11.6	12.1	12.5	13.0	13.5	14.0
90°	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: 4SNLED-LD5-21SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2
2.5°	1057.5	1055.1	1053.6	1049.8	1048.8	1042.5	1043.5	1042.5	1042.5	1044.0	1048.8
5°	1102.8	1091.2	1088.3	1080.1	1073.4	1061.8	1054.6	1050.7	1044.9	1042.5	1045.9
7.5°	1133.7	1125.0	1117.8	1110.5	1100.9	1087.4	1077.3	1065.7	1056.0	1046.9	1044.5
10°	1128.4	1138.0	1138.0	1133.7	1124.5	1111.0	1099.0	1084.5	1067.6	1053.1	1044.5
12.5°	1083.5	1100.4	1113.9	1124.0	1133.2	1124.0	1112.0	1100.4	1081.6	1060.4	1044.5
15°	1034.3	1051.7	1068.6	1089.8	1112.0	1121.1	1120.7	1107.2	1090.3	1068.1	1045.9
17.5°	999.6	1011.7	1020.8	1044.0	1071.0	1094.6	1110.5	1111.5	1095.1	1075.3	1046.4
20°	973.6	982.3	990.0	1003.0	1026.6	1055.6	1085.0	1101.4	1098.5	1076.8	1047.8
22.5°	950.0	956.2	962.5	972.1	990.9	1009.7	1044.0	1077.7	1092.2	1074.4	1046.4
25°	926.3	933.1	937.9	944.6	959.6	975.0	999.1	1041.1	1073.4	1072.4	1043.5
27.5°	898.4	907.5	913.3	922.5	932.6	944.2	960.6	1000.1	1046.4	1062.8	1035.8
30°	864.6	878.1	886.8	896.9	905.6	915.7	928.7	952.8	1010.2	1044.0	1027.6
32.5°	815.9	840.0	859.3	868.9	878.6	887.3	898.8	919.1	965.9	1018.4	1018.4
35°	781.2	792.3	809.6	837.6	849.7	858.3	868.9	884.9	914.8	988.0	1003.5
37.5°	754.2	758.5	767.2	794.7	817.3	831.3	841.9	852.1	881.5	946.6	984.2
40°	733.9	732.5	731.5	744.5	776.8	799.0	811.1	821.2	843.9	896.9	958.6
42.5°	710.3	708.8	704.0	707.4	723.3	760.4	778.8	789.9	808.7	844.8	930.7
45°	685.7	683.3	681.4	678.0	683.8	704.5	742.1	758.5	769.1	801.4	895.5
47.5°	660.6	657.3	654.8	651.9	648.6	658.2	693.9	723.3	741.6	761.9	853.0
50°	624.9	629.3	626.4	623.0	620.1	618.2	633.1	681.4	704.0	720.4	801.4
52.5°	294.6	572.9	597.0	593.6	589.7	586.4	589.7	626.4	667.4	680.4	739.2
55°	167.8	255.1	530.9	561.3	557.9	553.1	550.2	562.7	624.0	641.3	682.3
57.5°	161.5	162.0	234.4	505.8	524.6	520.3	516.9	519.8	571.9	601.3	632.7
60°	156.2	156.2	156.2	223.7	483.7	485.1	480.8	475.9	498.6	556.5	582.5
62.5°	144.7	147.6	149.0	149.0	220.9	448.0	443.6	442.2	443.2	502.5	532.4
65°	129.7	136.5	139.4	141.3	141.3	231.9	405.5	403.1	399.8	422.4	481.7
67.5°	113.3	120.1	126.3	130.2	130.7	135.0	242.1	363.1	358.3	358.8	427.7
70°	96.4	102.2	109.0	114.8	120.1	122.5	126.3	301.4	317.3	310.5	366.5
72.5°	83.4	85.8	90.7	96.4	102.7	108.5	111.9	120.1	275.3	268.1	278.7
75°	69.4	71.4	74.7	78.6	83.4	90.2	96.0	101.7	146.1	224.7	223.3
77.5°	54.0	57.4	61.2	63.7	66.1	70.9	78.6	84.4	90.2	151.9	178.9
80°	41.5	43.9	45.8	48.2	51.1	54.5	57.4	64.1	70.9	76.2	136.9
82.5°	30.9	32.3	33.8	34.7	35.7	37.6	42.9	45.3	49.7	54.5	64.6
85°	21.7	22.7	23.6	24.1	24.6	25.1	27.0	27.5	31.8	32.8	39.1
87.5°	14.0	14.5	15.4	15.9	15.9	16.4	16.9	16.9	16.9	15.9	19.3
90°	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: 4SNLED-LD5-21SL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1052.2	1052.2
2.5°	1052.7	1060.4
5°	1051.2	1061.3
7.5°	1047.4	1057.0
10°	1041.6	1053.1
12.5°	1035.3	1046.4
15°	1030.0	1038.2
17.5°	1024.2	1029.0
20°	1016.5	1020.4
22.5°	1008.8	1006.9
25°	1000.1	995.8
27.5°	989.0	980.8
30°	978.9	964.4
32.5°	969.2	945.6
35°	956.2	926.3
37.5°	942.7	906.6
40°	926.8	883.9
42.5°	909.9	861.2
45°	888.7	839.5
47.5°	869.9	813.5
50°	843.9	785.5
52.5°	812.0	759.5
55°	774.4	727.7
57.5°	733.9	694.4
60°	690.5	656.3
62.5°	638.0	616.7
65°	576.2	571.4
67.5°	495.7	521.3
70°	406.5	463.9
72.5°	340.0	403.1
75°	278.7	335.1
77.5°	220.9	262.8
80°	137.9	192.4
82.5°	92.6	126.3
85°	55.9	60.3
87.5°	21.7	22.2
90°	0.0	0.0

(END OF REPORT)