

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1213029

Luminaire Tested: 4SNLED-LD5-25SL-RW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-25SL-RW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

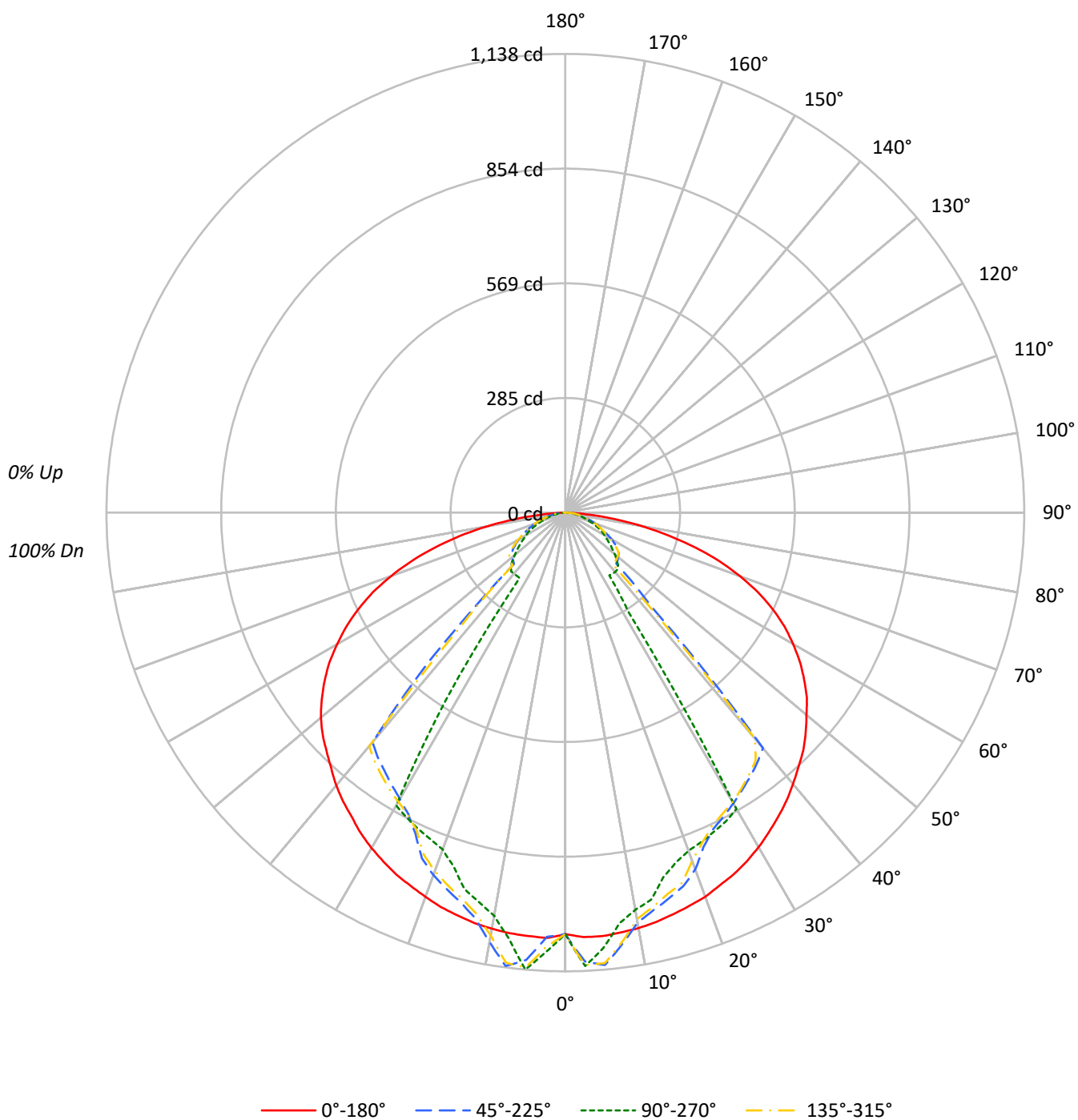
Lumens per Lamp: N/A
Luminaire Lumens: 2094.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 18
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	108	104	101	98	100	97	94		96	94	92		92
2	102	94	88	83	99	93	87	82	89	85	81		86	82	79		83
3	94	84	77	72	91	83	76	71	80	74	70		77	73	69		75
4	87	76	68	62	85	75	67	62	72	66	61		70	65	60		68
5	81	69	61	55	79	68	60	55	66	59	54		64	58	53		62
6	75	63	55	49	73	62	54	49	60	53	48		59	53	48		57
7	70	58	50	44	68	57	49	44	55	48	43		54	48	43		53
8	66	53	45	40	64	52	45	40	51	44	39		50	44	39		49
9	62	49	41	36	60	48	41	36	47	41	36		46	40	36		45
10	58	46	38	33	57	45	38	33	44	38	33		43	37	33		42

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8450	8450	8450	8450
5°	8533	8514	8529	8935
10°	8541	7698	8553	7816
15°	8560	7122	8580	7348
20°	8623	6755	8623	6730
25°	8697	6626	8710	6564
30°	8785	6509	8807	6432
35°	8887	1483	8906	1546
40°	9029	1542	9084	1592
45°	9246	1533	9278	1589
50°	9462	1386	9590	1424
55°	9754	1231	9831	1248
60°	10000	1094	10023	1108
65°	10177	954	10152	940
70°	10031	769	10000	741
75°	9314	592	9381	567
80°	7558	421	7863	385
85°	4092	252	4324	193

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 10247 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	4.9
10°-20°	282.9	13.5
20°-30°	419.0	20.0
30°-40°	422.2	20.2
40°-50°	329.8	15.7
50°-60°	254.7	12.2
60°-70°	171.0	8.2
70°-80°	87.2	4.2
80°-90°	24.3	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
0°-30°	804.8	38.4
0°-40°	1226.9	58.6
0°-60°	1811.5	86.5
0°-90°	2094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2094.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1046	1046	1046	1046	1046	
5°	1055	1084	1054	1138	1055	100
15°	1032	937	1034	967	1032	292
25°	990	873	991	865	990	456
35°	921	190	922	198	921	577
45°	834	184	837	191	834	643
55°	723	134	729	136	723	646
65°	568	90	566	89	568	559
75°	333	46	336	44	333	348
85°	60	14	63	11	60	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1053.8	1057.7	1060.5	1062.5	1063.4	1063.4	1063.9	1064.4	1070.6	1073.5	1075.4
5°	1054.8	1058.6	1064.4	1072.0	1078.8	1084.5	1089.3	1096.0	1102.7	1109.9	1112.3
7.5°	1050.5	1055.3	1066.8	1080.7	1093.6	1102.7	1108.9	1113.3	1116.6	1117.1	1119.5
10°	1046.6	1055.3	1071.1	1089.3	1105.6	1116.6	1116.6	1114.2	1117.6	1104.6	1091.7
12.5°	1039.9	1049.5	1071.1	1095.1	1110.4	1114.7	1112.8	1103.2	1083.5	1067.7	1060.5
15°	1031.8	1044.7	1071.6	1098.4	1111.3	1112.8	1094.6	1070.1	1055.3	1045.7	1033.7
17.5°	1022.7	1039.9	1072.0	1098.9	1103.7	1097.0	1062.5	1047.1	1031.8	1009.3	993.0
20°	1014.1	1030.8	1068.2	1092.2	1095.1	1064.9	1038.0	1021.7	995.8	976.2	969.0
22.5°	1000.6	1020.3	1064.9	1083.1	1072.0	1037.1	1011.2	985.3	961.8	956.1	947.4
25°	989.6	1010.2	1057.2	1072.0	1042.8	1011.7	981.5	951.3	940.3	932.1	924.4
27.5°	974.8	1000.2	1047.1	1051.9	1011.7	984.3	940.3	926.8	916.8	907.7	904.3
30°	958.5	989.6	1033.2	1024.1	985.8	945.5	912.9	900.5	893.3	883.7	879.9
32.5°	939.8	973.8	1017.9	992.0	958.0	907.7	886.6	877.0	867.4	860.2	836.3
35°	920.6	959.9	999.7	961.3	924.4	878.9	860.2	851.6	842.5	816.1	791.2
37.5°	901.0	944.6	977.6	928.3	879.9	849.2	833.4	823.8	803.2	769.7	757.2
40°	878.4	925.9	949.4	894.3	841.1	819.0	804.2	794.6	748.1	733.2	729.4
42.5°	855.9	907.7	914.9	861.2	808.9	786.9	774.4	742.8	711.2	703.5	705.0
45°	834.3	888.0	877.0	814.2	775.4	757.2	736.1	692.5	675.7	679.6	680.5
47.5°	808.5	864.5	837.2	767.3	740.9	722.7	675.7	649.4	647.0	652.2	655.1
50°	780.7	838.2	795.1	724.6	703.5	682.0	628.8	615.3	618.2	623.5	626.8
52.5°	754.8	808.5	751.4	684.8	666.6	617.3	581.3	583.7	588.5	594.7	596.6
55°	723.2	772.5	705.0	644.6	627.3	562.6	546.3	552.1	556.9	562.1	566.0
57.5°	690.1	731.3	649.8	599.5	571.7	514.2	515.7	519.5	522.8	529.1	218.5
60°	652.2	684.3	589.5	557.8	502.7	475.9	477.3	484.0	487.4	272.2	150.5
62.5°	612.9	629.7	534.8	510.4	439.5	437.5	444.3	447.1	304.3	143.8	140.9
65°	567.9	564.5	481.2	442.3	396.3	398.2	405.4	391.1	134.7	134.7	133.7
67.5°	518.1	497.9	428.9	366.1	354.6	358.9	366.6	128.0	124.6	125.6	122.2
70°	461.0	432.7	374.8	310.1	313.9	318.2	123.6	116.0	114.5	112.1	105.4
72.5°	400.6	361.8	306.7	269.3	271.7	170.6	108.3	104.5	99.7	94.9	87.7
75°	333.1	282.7	225.2	225.2	228.6	97.3	94.4	88.2	82.9	76.7	72.4
77.5°	261.2	217.6	174.9	181.6	88.7	81.5	76.2	69.5	65.2	61.3	58.9
80°	191.2	151.9	131.8	117.9	69.0	61.8	56.5	52.7	50.8	48.4	45.5
82.5°	125.6	91.5	91.5	55.6	48.4	42.7	41.2	38.3	36.4	35.0	33.5
85°	59.9	53.2	40.3	34.0	30.2	27.3	26.4	24.9	24.9	24.4	24.0
87.5°	22.0	24.0	17.7	17.3	16.3	15.8	16.3	16.3	16.8	16.3	15.8
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°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1080.2	1084.0	1086.9	1091.7	1097.9	1103.2	1108.0	1114.7	1125.2	1128.1	1130.5
5°	1112.3	1113.7	1117.1	1120.9	1121.9	1124.3	1123.8	1126.7	1128.1	1131.5	1124.3
7.5°	1114.2	1106.6	1097.4	1089.3	1083.5	1078.3	1074.9	1080.2	1083.1	1085.5	1078.3
10°	1074.0	1064.9	1059.6	1054.8	1049.0	1040.9	1029.9	1032.3	1031.3	1031.3	1028.9
12.5°	1048.6	1035.6	1022.2	1010.2	1005.0	1004.5	1005.0	1010.2	1010.2	1009.7	1006.9
15°	1008.8	996.3	989.6	986.7	986.7	985.3	985.3	991.1	989.6	989.6	988.2
17.5°	982.4	973.8	969.0	965.7	964.2	966.6	969.5	971.9	972.4	970.4	962.8
20°	960.9	952.7	947.0	947.9	947.4	948.9	950.3	942.2	932.1	918.7	912.5
22.5°	938.3	932.1	927.8	927.8	922.0	912.9	899.5	896.6	895.2	889.0	883.7
25°	916.8	909.6	903.4	884.2	872.2	873.6	871.2	866.5	866.0	865.5	867.4
27.5°	895.2	876.5	852.6	849.7	844.9	844.4	847.3	849.7	849.7	851.6	854.0
30°	850.6	829.1	824.8	819.5	821.4	828.1	829.6	832.9	833.9	837.2	839.1
32.5°	809.9	800.3	796.5	798.9	805.1	810.9	814.2	815.7	818.1	820.9	823.3
35°	776.8	774.0	777.3	782.6	788.8	793.6	796.5	799.4	801.8	804.2	806.1
37.5°	752.4	754.3	759.1	765.8	772.0	775.9	778.3	781.6	785.0	787.9	776.4
40°	729.4	734.2	739.5	746.6	751.9	755.8	758.1	762.5	733.7	332.1	182.1
42.5°	709.3	714.5	718.4	724.1	729.9	732.7	711.7	317.7	179.7	178.8	181.2
45°	684.8	689.1	695.4	699.7	705.0	462.9	176.8	178.8	175.9	177.8	178.8
47.5°	659.9	666.6	670.0	639.3	190.3	175.9	174.0	175.9	174.0	176.4	174.9
50°	631.6	639.8	455.3	172.0	170.6	169.6	171.6	170.6	172.0	174.0	170.1
52.5°	602.9	373.3	166.8	165.8	166.8	165.8	169.2	166.8	167.3	165.3	160.5
55°	204.2	161.5	160.1	159.6	162.5	162.5	162.5	158.6	156.2	151.4	148.1
57.5°	156.2	156.2	155.8	156.2	155.3	154.3	150.0	146.6	143.3	136.6	134.7
60°	148.1	148.1	148.1	148.1	143.8	141.9	135.1	132.3	126.5	123.2	121.2
62.5°	141.4	140.4	136.1	134.7	129.9	124.6	120.8	117.9	112.1	110.2	108.8
65°	131.8	128.4	123.2	117.4	115.0	109.3	107.3	103.0	100.2	98.7	97.8
67.5°	116.0	111.2	106.9	103.0	98.7	96.8	94.4	91.1	89.1	88.2	87.2
70°	99.2	95.8	91.5	89.1	86.3	84.8	81.5	80.5	79.1	77.6	76.2
72.5°	82.9	81.0	79.1	75.7	74.8	73.8	70.4	68.5	66.6	64.7	63.7
75°	69.5	68.1	67.1	64.2	62.8	59.9	57.5	56.1	54.6	53.2	52.2
77.5°	57.0	56.1	53.2	51.3	50.3	47.9	47.0	47.4	46.5	44.6	43.6
80°	44.6	43.6	41.2	41.2	40.3	39.3	38.3	37.4	36.4	35.0	34.0
82.5°	34.0	33.1	32.1	31.2	30.2	29.7	29.2	28.3	27.3	26.4	25.9
85°	24.0	23.5	23.0	22.5	22.0	21.6	21.1	20.1	19.2	18.7	18.2
87.5°	16.3	15.8	15.3	14.9	14.4	13.9	13.4	12.9	12.0	11.5	11.0
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°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1130.5	1132.9	1130.5	1125.2	1121.9	1120.5	1123.3	1123.3	1125.2	1127.6	1128.1
5°	1112.8	1107.0	1100.3	1093.6	1090.3	1088.3	1083.1	1084.0	1085.5	1086.4	1087.4
7.5°	1068.7	1061.0	1051.9	1043.3	1039.9	1037.1	1030.8	1030.8	1030.8	1031.3	1034.2
10°	1023.6	1020.3	1016.5	1010.7	1006.4	1005.0	999.7	1001.1	1000.2	1001.6	1005.0
12.5°	1002.6	998.7	995.4	989.6	984.8	982.9	980.5	982.0	981.5	983.9	986.7
15°	983.4	981.5	977.6	973.3	969.0	965.2	956.6	953.7	951.8	949.4	952.7
17.5°	951.8	938.3	929.2	922.5	917.7	914.4	912.0	912.0	913.4	914.9	917.7
20°	908.6	904.8	900.5	893.3	888.5	886.6	885.1	885.1	887.5	889.5	894.7
22.5°	878.9	878.4	877.0	873.6	871.2	871.2	871.7	872.7	876.0	878.9	884.2
25°	865.0	866.9	866.0	864.1	862.6	863.1	862.1	863.1	866.5	869.3	873.6
27.5°	854.0	856.9	855.9	853.0	850.6	851.6	853.0	852.1	855.0	858.3	861.7
30°	839.1	839.6	841.5	838.2	837.2	838.7	839.1	840.1	843.0	845.4	848.2
32.5°	822.4	826.2	825.7	822.4	822.4	823.8	824.3	792.2	732.3	630.7	602.9
35°	806.1	810.4	803.2	677.2	468.7	250.2	193.1	186.4	187.9	188.8	189.8
37.5°	596.2	282.7	180.2	181.6	183.1	184.5	185.9	187.4	188.8	190.3	190.7
40°	179.2	178.8	180.2	182.1	183.5	184.5	186.4	187.9	189.3	190.7	191.2
42.5°	177.3	178.3	179.7	181.6	183.5	185.5	186.9	188.8	189.8	190.7	191.2
45°	176.4	178.3	180.2	181.6	183.1	184.0	185.0	185.5	185.0	185.0	185.9
47.5°	174.9	176.8	177.3	176.8	177.3	176.8	176.8	176.8	175.4	174.9	174.9
50°	169.6	169.6	168.7	166.8	166.3	165.8	164.9	164.4	162.5	162.0	162.0
52.5°	158.6	158.1	156.7	154.3	153.4	152.4	151.9	151.4	149.5	148.6	149.0
55°	145.7	144.7	143.3	140.4	139.9	139.0	138.5	138.0	136.1	137.1	135.6
57.5°	133.7	131.8	129.9	129.4	127.5	127.0	126.5	126.0	124.6	125.1	124.1
60°	119.3	118.9	117.9	116.0	116.0	115.5	115.5	114.5	113.6	113.1	113.1
62.5°	108.8	107.3	106.4	106.4	105.0	105.0	105.0	104.0	103.0	103.5	103.0
65°	97.3	96.8	96.3	95.4	95.4	94.9	94.9	93.9	92.5	93.0	92.0
67.5°	87.7	86.7	85.8	85.3	83.4	82.4	81.9	81.5	79.6	80.0	79.1
70°	75.7	74.3	73.3	72.4	70.9	70.0	70.0	69.0	67.6	68.1	67.1
72.5°	63.3	62.3	61.3	60.9	59.4	58.9	58.5	58.0	56.5	57.0	56.5
75°	52.7	52.7	52.2	51.8	50.3	48.9	47.9	47.4	46.5	47.0	46.0
77.5°	43.6	42.7	41.7	41.7	40.3	39.3	38.3	38.3	38.3	37.9	37.4
80°	34.0	33.1	33.1	32.6	31.6	30.7	30.2	30.2	29.7	29.7	29.2
82.5°	25.9	24.9	24.4	24.4	23.5	23.0	22.5	22.0	22.0	22.0	21.6
85°	18.2	17.3	16.8	16.8	15.8	15.3	15.3	14.9	14.9	14.4	14.4
87.5°	11.0	10.5	10.1	10.1	9.1	8.6	8.6	8.6	8.1	8.1	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: P1213029

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1128.1	1128.1	1124.8	1125.7	1124.3	1126.2	1123.8	1123.8	1126.7	1126.7	1128.6
5°	1087.9	1085.5	1085.0	1084.0	1079.2	1081.2	1078.8	1076.4	1079.7	1079.7	1084.0
7.5°	1032.8	1028.4	1030.4	1027.5	1024.6	1020.3	1021.7	1019.8	1022.2	1025.6	1029.9
10°	1004.5	1000.6	1003.0	1000.2	1001.6	995.4	995.8	996.3	998.7	999.7	1003.5
12.5°	986.3	985.3	984.3	983.4	984.3	981.0	979.1	979.6	980.5	981.0	983.9
15°	947.9	941.7	943.6	936.9	937.4	937.9	934.0	937.9	937.4	943.6	949.4
17.5°	916.8	916.8	913.4	910.5	908.6	908.1	905.3	907.2	905.3	909.1	910.5
20°	895.2	894.7	894.3	892.8	888.0	888.5	889.9	885.6	885.1	884.7	887.5
22.5°	885.1	885.6	883.7	883.7	879.4	880.4	880.8	876.0	876.5	875.1	876.5
25°	874.6	875.6	873.2	873.2	872.2	871.7	869.3	870.3	867.4	865.0	867.4
27.5°	862.1	864.1	862.1	863.1	861.2	860.2	858.8	857.8	855.0	854.5	855.9
30°	850.6	851.6	851.1	848.7	848.2	845.4	846.8	843.9	841.1	841.5	842.5
32.5°	436.1	416.5	321.1	289.9	287.1	297.6	352.7	429.4	556.4	679.6	768.2
35°	190.3	190.3	190.3	189.8	189.8	189.3	188.8	188.3	187.9	187.4	186.9
37.5°	191.2	191.2	191.2	191.2	190.7	190.3	190.3	189.3	188.8	188.3	187.9
40°	191.7	192.2	192.2	192.2	191.7	191.7	191.2	190.3	189.8	188.8	187.9
42.5°	191.2	191.7	191.7	191.2	191.2	190.7	190.7	190.3	189.8	189.3	188.8
45°	185.0	185.5	184.5	184.5	184.0	184.0	184.0	184.0	184.0	184.5	184.5
47.5°	174.0	174.0	173.5	173.0	173.0	172.5	173.0	172.5	173.5	174.0	174.9
50°	161.0	161.0	160.1	159.6	159.6	159.6	159.6	160.1	160.5	161.5	162.5
52.5°	147.6	147.6	147.1	146.6	146.2	146.2	147.6	147.1	147.6	148.1	149.5
55°	134.7	135.1	134.2	134.2	133.7	133.7	133.7	134.2	134.7	135.1	136.6
57.5°	123.6	123.6	122.7	122.7	122.7	122.2	123.6	122.7	123.2	123.6	124.6
60°	112.6	112.1	112.1	111.7	111.7	111.7	112.6	112.1	112.1	112.6	113.6
62.5°	102.6	102.6	102.1	102.1	101.6	101.6	102.6	102.1	102.1	102.6	103.0
65°	91.1	91.1	90.6	90.1	91.5	90.1	91.5	90.6	91.5	92.0	93.0
67.5°	78.1	78.1	78.1	77.6	77.6	78.6	79.1	78.1	78.6	79.6	80.0
70°	66.6	66.6	66.1	66.1	66.1	67.1	67.6	66.6	67.1	67.6	68.5
72.5°	56.5	55.6	55.6	55.1	56.1	56.1	56.5	56.1	56.5	56.5	57.5
75°	46.5	45.5	45.5	45.5	46.5	46.0	46.5	46.0	46.5	46.5	47.0
77.5°	37.4	36.9	36.4	36.4	37.4	37.4	37.4	36.9	37.4	37.9	38.3
80°	29.2	28.8	28.3	28.3	29.2	29.2	29.2	29.7	29.2	29.7	30.2
82.5°	21.6	21.1	20.6	21.6	21.6	21.6	21.6	22.0	21.6	22.0	22.5
85°	14.4	13.9	13.4	14.4	14.4	14.4	14.4	14.9	14.4	14.9	15.3
87.5°	7.7	7.2	7.2	7.7	7.7	7.7	8.1	8.1	8.1	8.6	8.6
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: P1213029

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1131.5	1132.9	1132.4	1129.6	1126.7	1123.3	1120.9	1121.4	1126.2	1127.6	1123.3
5°	1084.0	1093.1	1093.1	1099.4	1096.0	1093.1	1095.1	1105.6	1110.9	1119.0	1121.9
7.5°	1035.1	1039.5	1039.0	1045.2	1044.3	1044.3	1045.7	1059.6	1066.3	1073.0	1074.9
10°	1007.8	1012.1	1011.7	1012.1	1010.7	1007.4	1007.4	1013.6	1019.3	1022.7	1023.6
12.5°	988.2	990.6	990.1	990.1	989.1	986.3	985.8	991.1	997.3	1001.6	1002.1
15°	958.9	965.7	967.1	973.3	971.9	968.1	969.0	973.3	977.2	981.0	979.6
17.5°	915.3	918.7	919.2	921.6	920.6	920.6	926.4	942.2	952.7	961.8	962.8
20°	890.4	892.8	891.9	897.1	894.7	894.3	895.7	902.4	907.2	911.5	919.2
22.5°	878.4	880.4	878.9	879.4	875.1	871.2	870.3	875.6	880.8	886.6	886.6
25°	868.4	869.8	869.3	868.4	865.0	859.7	858.8	859.7	861.7	862.1	858.8
27.5°	856.4	857.4	857.4	857.8	853.5	848.7	847.8	846.8	848.7	848.2	843.0
30°	843.9	842.5	843.0	843.5	839.6	835.3	833.4	832.9	834.8	834.3	829.1
32.5°	814.2	825.2	826.2	827.2	823.8	820.0	818.1	816.6	817.6	817.1	812.3
35°	186.4	189.8	232.4	526.2	714.5	791.2	799.4	797.4	797.9	797.9	794.1
37.5°	186.9	186.4	185.9	184.5	183.1	182.1	314.9	671.4	777.8	778.3	774.9
40°	186.9	186.4	185.9	185.0	183.1	181.6	179.2	177.3	181.6	399.7	731.3
42.5°	187.9	186.9	185.9	185.0	183.1	181.2	179.2	176.8	178.3	177.3	174.9
45°	185.0	184.5	184.5	184.0	183.1	181.2	178.8	175.9	174.4	175.9	173.5
47.5°	175.9	176.4	177.8	178.3	178.3	178.8	177.3	175.4	173.0	174.4	171.6
50°	163.4	164.4	164.9	167.3	168.2	170.1	170.6	170.6	170.1	172.0	170.1
52.5°	150.0	151.0	153.4	154.3	155.3	158.1	159.1	160.5	161.5	164.4	166.3
55°	137.1	137.5	138.5	140.4	141.9	144.2	145.7	147.1	149.5	151.0	156.7
57.5°	125.1	125.6	127.5	128.0	128.9	130.8	132.3	134.2	136.1	137.1	143.8
60°	113.6	114.1	115.5	116.0	116.5	118.4	119.8	121.2	122.7	123.6	128.4
62.5°	103.5	103.5	105.0	105.0	105.4	106.9	107.8	108.8	110.2	110.7	113.1
65°	93.5	93.9	94.9	94.9	95.4	96.3	96.8	97.3	98.7	98.7	100.6
67.5°	81.0	81.5	82.9	83.9	84.3	86.3	86.7	87.2	88.2	88.7	89.6
70°	69.0	69.5	70.9	71.4	71.9	73.3	74.3	75.7	77.2	78.6	79.6
72.5°	58.0	58.5	59.9	59.9	61.3	61.8	62.8	63.3	64.7	65.7	67.1
75°	47.4	47.9	49.4	49.4	50.8	51.3	51.8	52.2	53.2	54.2	55.1
77.5°	38.8	38.8	40.7	41.7	42.7	42.7	43.1	43.1	43.1	43.6	44.6
80°	30.7	30.7	32.1	33.1	34.0	34.0	34.5	35.0	35.5	35.5	35.9
82.5°	23.0	23.0	24.4	24.9	25.9	25.9	25.9	26.4	26.8	26.4	27.3
85°	15.8	15.8	16.8	17.3	18.2	18.2	18.2	18.7	19.2	18.7	19.2
87.5°	9.1	9.6	10.1	10.5	11.0	11.5	11.5	11.5	12.0	12.0	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: P1213029

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1118.5	1112.8	1112.3	1105.6	1103.7	1104.2	1098.9	1097.0	1088.3	1086.4	1077.3
5°	1122.8	1125.7	1124.3	1123.8	1125.2	1124.3	1120.5	1118.5	1117.1	1113.3	1105.6
7.5°	1075.4	1077.3	1078.8	1085.0	1090.3	1099.4	1108.9	1115.2	1120.0	1120.9	1114.7
10°	1027.0	1036.1	1042.3	1051.9	1059.6	1064.9	1070.6	1075.9	1089.8	1103.7	1111.8
12.5°	1002.1	1004.5	1004.0	1009.3	1014.5	1028.4	1041.9	1049.5	1060.1	1066.3	1081.2
15°	981.0	981.5	982.9	986.7	989.6	994.4	1000.6	1012.1	1033.2	1042.8	1051.0
17.5°	961.8	961.8	962.8	966.1	970.0	974.3	978.1	982.9	993.5	1009.3	1029.4
20°	931.2	944.6	946.0	945.5	947.4	955.6	956.6	965.2	970.4	976.7	996.3
22.5°	885.6	893.8	905.3	923.0	929.7	933.5	936.4	940.3	948.4	955.6	963.7
25°	860.7	866.0	869.3	874.6	888.5	911.0	915.3	919.7	924.9	930.2	940.3
27.5°	838.7	838.2	840.6	845.4	849.2	861.2	882.3	899.0	900.0	907.7	916.3
30°	822.8	820.0	816.6	815.7	820.9	827.2	833.4	859.7	878.0	881.8	890.9
32.5°	808.0	803.2	798.4	794.6	791.2	796.5	800.3	811.8	835.3	857.4	862.1
35°	789.8	785.0	779.2	774.9	769.7	769.2	768.7	779.7	787.4	813.7	836.7
37.5°	771.1	765.8	761.0	756.2	751.0	747.1	744.7	747.6	754.8	766.3	804.6
40°	751.4	745.2	740.4	736.6	729.4	726.5	721.7	719.8	720.3	730.4	750.5
42.5°	449.0	716.0	718.4	714.1	707.8	704.0	698.7	696.3	691.5	696.3	707.8
45°	173.0	174.9	523.8	692.0	684.3	679.6	674.8	672.4	667.1	663.3	673.8
47.5°	169.6	171.6	167.7	237.7	653.2	654.6	648.9	646.5	641.2	638.3	635.5
50°	167.3	168.7	165.8	166.8	163.4	598.6	622.5	619.7	613.9	610.5	604.8
52.5°	164.9	164.9	162.9	160.5	159.6	160.1	503.7	592.3	585.6	582.3	574.6
55°	157.2	158.1	160.1	156.2	155.3	154.8	153.4	479.7	554.5	550.6	543.9
57.5°	145.7	147.6	152.9	151.9	151.9	148.1	147.1	147.1	445.2	518.5	511.8
60°	132.3	134.2	139.9	141.9	143.3	142.3	141.4	140.9	139.0	469.2	477.8
62.5°	118.4	120.3	122.2	128.4	130.4	132.7	135.6	134.2	132.3	132.3	441.9
65°	103.5	106.4	107.3	113.1	115.5	119.8	122.2	125.6	124.6	124.1	126.5
67.5°	90.6	93.9	94.4	96.8	101.1	103.0	105.9	112.1	115.0	116.0	116.9
70°	79.6	81.5	82.9	83.9	86.7	87.2	92.5	96.8	101.1	105.9	107.3
72.5°	68.5	70.0	72.8	71.9	72.8	74.8	77.6	80.5	84.8	91.5	95.8
75°	56.1	57.0	58.9	59.9	61.8	63.3	65.2	67.6	71.4	74.8	80.5
77.5°	45.0	45.5	47.0	47.4	49.4	50.8	54.2	55.6	58.0	60.4	63.7
80°	36.4	36.4	36.9	36.9	38.3	39.8	42.2	43.6	46.5	48.4	48.4
82.5°	27.8	27.8	29.2	29.2	30.2	30.2	31.6	31.6	33.1	34.0	35.0
85°	19.6	20.1	21.1	20.6	21.6	21.1	22.0	23.0	23.5	23.0	22.5
87.5°	12.9	12.9	13.9	13.4	13.9	13.9	14.9	14.9	15.3	15.3	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: P1213029

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1074.0	1066.8	1062.5	1057.2	1055.8	1054.3	1056.2	1056.2	1053.4	1051.0	1046.6
5°	1098.9	1091.2	1083.1	1074.4	1066.3	1057.7	1054.3	1053.8	1048.6	1045.7	1044.3
7.5°	1111.8	1108.0	1098.9	1086.9	1074.4	1059.1	1052.4	1048.6	1043.3	1042.3	1042.3
10°	1113.3	1108.9	1104.2	1095.5	1081.2	1061.0	1048.1	1040.4	1035.6	1039.0	1045.2
12.5°	1099.4	1107.5	1103.2	1097.4	1085.9	1061.5	1042.8	1031.3	1029.9	1038.5	1054.8
15°	1063.9	1087.9	1099.8	1094.1	1085.0	1060.5	1034.2	1020.8	1020.8	1038.5	1059.6
17.5°	1037.1	1055.8	1085.0	1089.8	1079.2	1058.6	1026.0	1010.2	1014.5	1040.4	1062.9
20°	1015.0	1026.5	1054.8	1081.6	1071.6	1054.3	1014.1	997.8	1006.4	1037.5	1067.7
22.5°	980.5	1003.5	1020.8	1060.5	1063.9	1046.2	1002.1	982.4	999.7	1037.5	1065.3
25°	947.0	974.8	993.0	1031.8	1052.4	1036.1	991.1	966.1	992.5	1036.1	1063.4
27.5°	923.5	936.4	969.5	997.3	1035.1	1022.7	976.2	948.4	983.4	1028.4	1052.4
30°	898.6	907.2	939.8	966.1	1012.1	1007.4	960.9	928.8	971.9	1021.2	1023.6
32.5°	871.2	880.8	897.6	935.9	980.0	993.0	943.6	909.1	959.4	1010.2	990.1
35°	843.5	850.6	864.1	905.3	942.7	971.4	922.5	886.6	950.8	993.5	958.0
37.5°	815.7	823.3	834.8	869.3	903.4	951.3	904.3	864.1	935.0	963.7	924.4
40°	789.3	793.6	805.6	827.2	870.8	930.7	883.7	840.6	918.7	925.9	878.9
42.5°	740.9	762.5	773.5	790.7	833.9	902.4	859.7	815.7	900.5	888.0	833.4
45°	688.7	735.6	740.4	757.7	801.3	872.2	837.2	791.2	883.2	855.4	790.3
47.5°	646.0	680.0	707.8	722.2	762.5	836.7	816.1	770.6	857.4	814.2	748.1
50°	608.1	626.4	676.7	687.2	716.0	794.1	791.2	746.6	821.4	762.5	706.9
52.5°	571.2	584.2	629.7	652.2	675.7	748.1	761.5	723.2	782.1	710.7	665.2
55°	539.1	543.5	568.4	615.8	636.9	701.6	728.9	695.8	732.3	661.3	624.9
57.5°	506.1	502.2	520.4	581.3	596.6	654.2	694.4	668.1	692.0	611.0	583.2
60°	471.6	466.3	474.0	514.2	554.0	607.2	653.7	637.4	643.1	561.2	536.7
62.5°	435.6	430.4	428.0	453.4	512.3	558.8	612.5	603.4	583.2	515.7	479.2
65°	398.2	393.0	389.1	399.2	466.3	496.0	566.5	564.1	517.6	467.7	403.5
67.5°	121.2	357.5	349.4	348.9	393.0	439.0	516.6	512.8	451.4	416.5	347.4
70°	109.3	289.9	308.1	303.8	323.0	381.0	459.6	456.7	387.2	334.0	307.2
72.5°	100.2	102.6	272.2	267.4	271.7	324.0	400.2	392.5	328.3	263.6	265.5
75°	85.8	90.1	93.9	225.7	220.0	268.4	335.5	323.5	270.8	217.6	221.9
77.5°	70.0	75.2	78.1	164.4	177.8	191.2	267.9	252.1	186.4	174.0	82.9
80°	52.2	56.5	61.3	65.7	135.1	133.7	198.9	183.1	129.9	108.3	64.7
82.5°	38.3	39.8	42.7	47.4	53.7	89.6	128.0	112.6	90.1	49.4	44.6
85°	24.0	25.9	27.3	28.8	32.6	53.7	63.3	50.3	37.9	30.2	28.3
87.5°	15.3	15.3	14.9	15.3	15.8	19.2	21.6	20.6	16.3	15.3	15.3
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: P1213029

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1041.9	1035.1	1035.1	1033.2	1034.7	1034.7	1034.2	1034.7	1038.0	1039.9	1043.3
5°	1041.4	1039.5	1043.8	1049.0	1055.3	1062.9	1064.9	1071.6	1077.8	1085.9	1094.6
7.5°	1047.6	1054.3	1062.5	1071.1	1083.5	1092.7	1100.8	1108.9	1114.7	1122.4	1127.2
10°	1056.7	1070.1	1084.0	1095.1	1108.5	1116.1	1121.4	1122.4	1114.2	1101.3	1090.7
12.5°	1069.7	1085.5	1098.4	1108.9	1115.2	1112.3	1097.0	1081.2	1072.0	1058.6	1039.9
15°	1080.7	1095.1	1108.5	1104.2	1087.4	1071.6	1059.6	1040.9	1022.7	1010.2	1002.1
17.5°	1085.5	1099.4	1094.6	1072.0	1056.2	1038.0	1013.6	999.2	987.2	977.6	972.8
20°	1088.3	1085.9	1060.1	1043.8	1013.1	996.3	980.5	967.1	958.0	953.2	952.2
22.5°	1080.7	1051.4	1029.4	1000.2	977.6	963.7	951.3	940.3	934.0	930.2	927.8
25°	1055.3	1021.2	988.7	965.7	946.5	934.5	924.9	915.8	908.1	906.2	901.4
27.5°	1019.8	992.0	948.9	931.2	914.4	908.6	898.1	889.0	882.3	876.5	861.2
30°	990.6	946.5	915.3	899.0	889.0	882.3	870.3	860.7	849.2	828.1	819.5
32.5°	954.6	911.0	881.3	872.2	859.7	854.0	840.6	819.5	801.8	793.1	792.7
35°	908.1	872.2	850.6	842.5	832.4	822.8	795.1	775.9	767.3	768.2	775.4
37.5°	869.3	837.2	823.3	811.8	800.3	775.9	752.4	743.3	745.7	750.5	753.8
40°	830.0	805.6	789.8	780.7	754.8	730.8	718.4	721.7	726.0	729.4	733.7
42.5°	791.7	774.4	758.6	740.9	705.4	692.5	695.4	699.7	703.5	708.3	712.6
45°	755.3	739.9	721.7	681.5	663.7	667.1	671.4	674.8	680.5	683.9	688.2
47.5°	720.8	704.5	672.4	636.9	635.0	641.7	645.5	649.8	654.2	645.5	356.1
50°	682.0	665.2	616.3	602.9	607.2	613.4	618.2	622.5	554.5	220.4	169.6
52.5°	643.6	601.0	569.8	573.6	578.0	585.1	588.5	437.1	174.0	165.8	166.3
55°	601.0	546.3	537.2	542.0	545.8	553.0	366.6	160.5	159.6	159.1	162.9
57.5°	533.9	500.8	504.6	509.4	513.3	362.3	156.2	155.3	155.8	156.2	156.7
60°	474.0	466.8	471.1	475.4	336.4	151.0	148.1	148.6	150.5	149.0	145.2
62.5°	426.5	432.3	436.6	382.4	143.3	141.9	143.3	141.9	138.5	136.1	131.3
65°	390.1	395.8	399.2	134.7	134.2	136.1	134.7	129.9	124.6	117.9	116.5
67.5°	351.8	357.5	128.0	124.6	126.5	124.1	118.4	112.6	108.8	103.0	100.6
70°	312.0	133.7	116.0	115.5	112.1	108.3	102.1	96.3	91.5	89.1	86.7
72.5°	225.2	105.9	104.5	100.6	94.9	89.6	84.3	81.0	78.6	77.2	75.7
75°	93.9	92.0	87.7	81.0	75.2	72.8	69.0	66.6	65.7	62.8	61.8
77.5°	78.6	74.8	68.5	63.7	60.4	58.9	56.1	53.2	51.8	51.3	49.4
80°	60.4	55.1	52.2	49.8	48.9	45.5	42.2	40.7	39.8	39.3	37.9
82.5°	41.2	39.3	37.4	34.0	34.0	32.6	31.2	30.2	29.2	29.2	28.3
85°	26.8	25.4	24.9	23.5	23.5	22.5	22.0	21.6	21.1	20.6	20.1
87.5°	15.3	15.3	15.8	15.3	15.3	14.9	14.4	13.9	13.4	13.4	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: P1213029

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1047.6	1052.4	1053.4	1069.7	1078.8	1078.3	1075.4	1084.0	1078.8	1075.9	1078.8
5°	1103.2	1108.9	1113.7	1131.5	1137.7	1140.6	1140.1	1144.9	1141.1	1137.7	1137.7
7.5°	1130.5	1132.4	1134.3	1130.0	1127.2	1122.4	1115.2	1104.6	1099.4	1093.6	1086.4
10°	1085.5	1079.2	1081.6	1073.0	1065.8	1060.5	1053.8	1045.2	1038.0	1032.8	1024.6
12.5°	1030.4	1029.9	1030.8	1032.3	1025.1	1020.8	1015.5	1009.3	1004.0	998.2	991.5
15°	996.8	997.3	1001.1	999.7	997.3	994.9	989.1	987.2	982.4	976.2	972.4
17.5°	972.8	975.2	979.1	977.2	973.3	970.9	966.6	962.3	958.0	953.2	947.4
20°	951.8	954.2	956.6	954.2	947.0	943.6	937.9	924.4	914.9	905.3	896.6
22.5°	928.8	930.2	928.3	920.6	902.4	893.8	887.1	883.2	875.1	869.8	864.5
25°	900.0	891.9	879.4	870.8	863.6	859.7	856.9	856.4	855.4	854.5	852.1
27.5°	853.0	850.2	843.5	840.1	840.6	842.0	842.5	843.9	842.5	840.6	838.7
30°	818.1	819.5	820.0	820.9	823.3	824.8	825.2	827.2	826.2	824.8	823.8
32.5°	796.0	799.4	801.3	804.2	805.6	808.0	808.0	810.9	808.0	807.5	806.6
35°	777.8	780.7	781.6	785.9	787.4	789.8	789.8	792.2	789.8	765.3	604.3
37.5°	759.6	762.5	764.4	768.2	768.7	770.1	710.7	520.0	335.5	259.7	198.4
40°	738.0	741.4	743.3	744.7	523.3	332.1	228.6	185.9	185.9	187.4	188.8
42.5°	715.0	717.4	499.8	290.9	181.2	180.7	182.1	183.5	185.0	186.9	188.8
45°	562.1	283.7	180.2	175.9	177.3	179.2	181.2	183.1	185.5	187.4	188.3
47.5°	184.5	173.0	175.4	173.5	175.9	178.3	180.2	182.1	182.6	183.1	182.6
50°	170.6	170.6	172.0	172.0	174.0	174.9	174.9	174.9	173.0	172.5	171.1
52.5°	164.9	168.7	166.8	167.7	166.8	165.3	163.9	162.5	159.6	158.6	156.7
55°	162.0	163.4	158.6	157.2	155.3	151.4	149.5	147.6	145.2	144.2	141.9
57.5°	155.3	151.9	146.6	144.2	140.9	137.1	135.1	133.7	131.3	130.4	128.9
60°	142.8	136.1	132.7	129.9	126.0	122.7	121.2	120.3	118.4	117.9	116.5
62.5°	127.5	121.7	118.9	115.0	112.1	110.2	108.8	108.3	106.4	106.4	105.4
65°	110.7	107.8	105.4	101.6	100.2	98.2	97.8	97.3	96.3	95.8	94.9
67.5°	97.3	95.4	92.0	90.1	89.1	87.7	86.7	85.8	83.9	82.9	81.5
70°	85.3	83.9	80.5	79.1	77.2	74.8	73.3	72.4	70.9	70.0	68.5
72.5°	73.8	69.5	67.1	65.7	64.2	61.8	61.3	60.4	58.9	58.5	57.0
75°	59.4	56.1	54.6	53.7	52.2	50.8	50.8	50.8	49.4	48.9	48.4
77.5°	47.4	45.5	44.6	43.6	43.1	42.2	40.7	40.3	38.8	38.8	38.3
80°	36.4	35.5	34.5	34.0	33.5	32.6	31.6	31.2	29.7	29.7	29.2
82.5°	26.8	26.4	25.9	25.4	24.9	24.4	23.0	22.5	21.6	21.6	21.1
85°	19.2	18.7	17.7	17.3	17.3	16.8	15.3	14.9	13.9	13.9	13.9
87.5°	12.0	11.5	11.0	10.5	10.1	9.6	8.6	8.1	8.1	7.2	6.7
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: P1213029

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1073.0	1081.2	1080.2	1085.9	1087.4	1090.3	1091.2	1091.7	1084.5	1090.3	1090.7
5°	1136.3	1137.7	1138.7	1141.1	1143.5	1143.9	1141.5	1138.7	1139.6	1137.7	1132.9
7.5°	1085.5	1078.3	1076.8	1074.9	1074.0	1073.0	1068.7	1072.5	1068.2	1066.3	1059.6
10°	1023.2	1016.5	1016.0	1016.0	1017.4	1016.9	1016.0	1014.1	1017.9	1015.5	1014.1
12.5°	990.6	988.2	989.6	988.7	992.5	993.5	992.5	992.5	991.5	989.6	990.6
15°	970.9	969.0	970.4	969.0	971.9	972.4	970.0	971.4	969.0	966.6	965.7
17.5°	945.1	940.7	937.4	932.6	933.1	932.1	929.2	929.2	926.8	920.6	921.1
20°	895.2	890.9	889.0	889.0	891.4	892.3	891.9	892.8	890.4	889.5	885.6
22.5°	864.1	863.6	864.5	866.9	870.8	876.0	876.5	876.5	876.5	876.0	871.2
25°	853.0	853.0	854.0	857.4	860.2	864.1	865.0	866.0	865.0	865.0	860.7
27.5°	840.6	839.6	841.5	844.9	848.2	851.1	853.5	854.0	852.6	852.6	854.0
30°	825.2	824.8	827.2	830.5	833.4	836.3	838.7	840.6	838.7	838.7	837.2
32.5°	809.4	809.4	810.4	790.3	732.7	659.9	661.3	619.2	589.9	553.0	601.9
35°	505.1	367.6	315.8	267.4	233.4	211.3	210.9	203.7	200.3	197.9	197.4
37.5°	190.7	191.7	193.6	194.6	196.0	197.0	197.4	197.4	197.4	197.4	197.0
40°	190.3	192.2	193.6	195.0	196.5	197.4	197.4	197.9	198.4	198.4	198.4
42.5°	190.7	192.7	194.6	196.0	197.0	197.4	197.9	198.4	198.4	198.4	198.4
45°	190.3	191.2	191.2	191.7	191.7	191.7	192.2	192.2	191.7	191.2	192.2
47.5°	183.1	183.1	181.6	181.2	180.7	179.7	180.2	179.7	179.2	178.8	179.7
50°	170.6	168.7	167.7	166.8	166.3	165.3	165.8	165.3	164.9	163.9	165.3
52.5°	155.8	155.3	153.4	152.4	151.9	152.4	151.4	151.0	150.5	150.0	150.5
55°	141.4	139.5	139.0	138.0	137.5	138.0	137.5	137.1	136.6	136.1	136.6
57.5°	128.4	127.0	126.5	125.6	125.6	125.6	125.6	125.1	124.6	124.1	124.6
60°	116.0	115.0	114.5	114.5	114.1	114.1	114.1	113.6	113.1	113.1	113.6
62.5°	105.4	105.4	104.0	103.5	103.5	104.0	103.5	103.0	102.6	102.1	103.0
65°	94.4	92.5	92.0	91.1	90.1	90.6	90.1	89.6	89.1	88.7	89.6
67.5°	81.0	80.5	78.6	77.6	77.2	77.6	77.2	76.7	76.2	75.7	76.7
70°	68.1	68.1	66.1	65.7	65.2	65.2	64.7	64.7	64.2	63.7	64.7
72.5°	56.5	56.5	56.1	55.1	54.6	54.2	53.7	53.2	53.2	53.7	53.7
75°	47.0	46.0	44.1	44.6	44.1	43.6	43.6	43.1	42.7	43.6	43.1
77.5°	36.9	36.4	35.0	35.5	35.0	34.5	34.5	34.0	33.5	34.0	34.0
80°	27.8	27.8	27.3	26.8	26.8	26.4	25.9	25.9	25.4	25.9	25.9
82.5°	20.1	20.1	19.6	19.2	18.7	18.7	18.2	18.2	18.2	18.2	18.2
85°	12.9	12.5	12.5	11.5	11.5	11.5	11.0	11.0	11.0	11.0	11.0
87.5°	6.2	6.2	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: P1213029

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1082.1	1088.3	1083.1	1085.5	1085.9	1094.1	1093.6	1095.5	1092.2	1088.3	1083.1
5°	1137.2	1134.3	1130.5	1139.6	1134.8	1140.6	1142.5	1146.3	1146.3	1145.8	1141.5
7.5°	1066.8	1060.5	1065.3	1068.7	1070.1	1066.3	1074.0	1082.6	1089.8	1094.1	1094.6
10°	1011.7	1013.6	1013.1	1014.5	1017.9	1017.4	1022.2	1027.0	1028.9	1031.8	1032.8
12.5°	985.8	985.3	986.3	989.6	991.5	991.1	995.8	998.7	999.7	1000.2	999.7
15°	965.2	961.8	964.2	964.7	966.1	966.1	971.9	976.2	978.1	979.1	978.1
17.5°	926.4	918.2	925.9	925.9	931.2	930.2	939.3	946.5	950.3	953.2	953.2
20°	888.0	884.2	887.1	886.1	889.9	889.5	895.2	900.0	903.4	905.8	908.6
22.5°	872.7	873.6	869.3	869.8	869.8	869.3	872.2	874.6	875.6	877.0	876.0
25°	862.6	863.6	862.1	859.7	858.8	859.7	861.2	864.1	864.5	863.6	860.2
27.5°	852.6	849.7	852.1	847.8	846.8	848.7	850.6	851.1	851.6	851.6	848.7
30°	837.2	834.8	837.2	835.3	833.4	835.3	836.7	836.7	837.7	838.2	834.8
32.5°	585.1	589.9	667.6	714.5	780.7	814.2	820.4	820.4	821.4	821.4	818.5
35°	199.4	199.8	216.1	234.3	273.2	321.1	383.9	416.5	526.7	658.5	785.9
37.5°	197.0	196.5	196.0	195.5	195.0	194.6	193.6	193.1	196.0	232.4	315.3
40°	197.9	197.4	196.5	196.0	195.5	194.6	194.1	193.1	192.2	191.2	190.3
42.5°	197.9	197.4	197.0	196.5	196.0	195.5	194.6	193.6	192.7	191.2	189.8
45°	191.2	191.2	191.7	191.7	192.2	192.2	192.2	191.7	191.7	191.2	189.3
47.5°	178.8	178.8	180.2	180.2	181.2	182.1	182.1	183.1	184.5	185.5	185.9
50°	164.4	164.4	165.8	166.3	167.3	168.7	170.1	170.6	172.0	174.0	175.9
52.5°	150.0	150.0	151.4	151.4	152.4	153.8	155.3	155.8	157.7	159.6	162.0
55°	136.6	136.6	137.5	138.0	138.5	139.5	140.9	140.9	142.8	144.2	146.6
57.5°	124.6	125.6	125.6	125.6	126.0	127.0	128.0	128.0	129.4	130.8	132.7
60°	113.1	114.1	114.1	114.1	114.5	115.0	116.0	116.0	116.9	117.9	119.8
62.5°	102.6	103.5	103.5	104.0	104.0	104.5	105.4	105.0	105.9	106.4	107.8
65°	89.1	90.1	90.6	91.1	91.5	92.5	93.9	93.5	94.9	95.8	97.3
67.5°	76.2	77.2	77.2	77.6	78.1	79.1	80.0	80.0	81.5	82.4	84.3
70°	64.2	65.2	65.2	65.7	66.1	67.1	68.1	67.6	69.0	70.0	71.4
72.5°	53.2	54.2	54.2	54.6	54.6	55.6	56.5	57.5	57.5	58.5	59.4
75°	43.1	43.6	44.1	44.1	44.6	45.0	46.0	47.0	47.4	47.9	48.9
77.5°	34.0	34.5	35.0	35.0	35.5	35.9	36.4	38.3	39.3	39.8	39.8
80°	25.9	26.4	26.4	26.4	26.8	27.3	28.3	28.3	30.2	30.2	30.7
82.5°	18.2	18.7	18.7	18.7	19.2	20.1	20.6	21.1	22.0	22.5	22.5
85°	11.0	11.5	11.5	11.5	12.0	12.5	13.4	13.9	14.4	14.4	14.9
87.5°	4.3	4.8	5.3	5.3	5.8	6.2	6.7	7.2	7.7	7.7	8.1
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: P1213029

CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1077.3	1080.7	1077.3	1079.2	1081.6	1077.3	1067.3	1063.4	1062.0	1056.2	1052.4
5°	1137.2	1137.2	1135.8	1139.6	1139.1	1132.4	1121.9	1117.1	1112.3	1106.1	1101.3
7.5°	1094.6	1098.4	1100.8	1115.7	1125.2	1126.2	1132.9	1134.3	1136.3	1134.3	1131.5
10°	1033.2	1031.8	1038.5	1052.4	1060.5	1064.9	1077.8	1084.0	1089.3	1099.8	1110.9
12.5°	998.7	1000.6	1003.5	1013.6	1021.2	1019.3	1024.6	1028.9	1035.1	1045.7	1061.5
15°	975.7	977.6	980.5	988.2	993.0	990.6	993.5	996.3	1000.6	1005.9	1015.5
17.5°	950.8	954.2	957.5	965.7	970.0	969.5	971.9	972.8	974.3	977.6	984.3
20°	912.0	922.5	929.2	940.3	946.5	945.5	949.8	951.3	953.2	956.6	959.4
22.5°	876.5	879.4	882.7	894.7	905.3	918.2	921.1	924.9	929.7	933.1	935.9
25°	856.4	854.5	855.9	864.1	869.8	870.8	875.1	887.5	900.5	906.2	912.9
27.5°	844.4	842.5	842.0	845.8	846.8	844.4	843.5	847.3	856.9	866.5	886.6
30°	831.5	829.1	827.2	830.5	832.0	828.6	822.4	819.0	824.8	827.2	835.3
32.5°	816.1	813.7	812.8	814.7	815.7	812.8	806.1	802.2	801.3	799.4	801.3
35°	798.9	796.5	795.1	795.5	797.4	795.1	789.3	784.5	782.1	776.8	773.0
37.5°	411.7	583.2	757.2	775.4	777.3	776.8	771.1	765.8	763.4	757.2	755.3
40°	188.3	210.4	315.8	412.6	595.2	756.2	751.0	745.7	741.4	739.5	732.3
42.5°	187.9	188.3	188.8	186.4	231.0	393.5	580.8	725.1	722.2	717.4	712.1
45°	187.9	185.5	187.4	184.5	185.5	185.0	230.5	371.9	661.8	691.5	689.1
47.5°	185.9	184.5	186.4	184.0	181.2	182.6	180.7	183.1	285.6	484.5	663.7
50°	177.3	178.3	181.6	181.2	178.8	180.7	177.3	180.2	177.8	195.0	375.7
52.5°	164.4	166.3	169.6	172.5	173.5	175.9	174.9	175.9	174.0	174.4	174.9
55°	149.0	151.4	154.3	158.6	160.5	164.4	167.3	168.7	171.1	170.6	166.8
57.5°	134.7	137.1	139.5	143.8	148.1	150.0	155.3	158.1	164.4	162.9	162.0
60°	121.2	123.2	125.6	126.5	131.8	135.1	139.9	142.8	151.0	152.9	155.8
62.5°	109.3	110.2	112.1	113.6	116.9	120.3	122.7	127.5	131.8	138.0	142.3
65°	98.2	99.2	100.6	101.6	102.1	106.9	108.3	113.6	115.0	121.7	125.6
67.5°	85.8	87.7	89.6	90.6	91.5	94.4	95.4	97.8	101.1	104.0	108.8
70°	72.8	74.3	76.2	77.6	79.6	81.5	84.3	85.8	88.2	90.1	93.9
72.5°	60.9	62.3	63.3	64.7	66.1	67.6	70.0	73.3	75.2	78.6	79.6
75°	49.4	50.8	51.8	52.7	54.2	55.1	56.1	59.4	61.3	64.2	67.1
77.5°	40.7	40.7	41.7	44.6	44.1	44.1	45.0	47.0	48.4	50.3	53.2
80°	31.6	32.1	32.6	35.0	35.5	35.9	35.5	36.9	38.3	38.8	40.7
82.5°	23.5	24.0	24.0	25.4	26.8	26.8	26.8	27.3	28.8	29.2	30.2
85°	15.8	16.3	16.8	17.3	18.2	18.7	19.2	19.2	20.1	20.6	21.1
87.5°	8.6	9.6	10.1	10.5	11.0	11.5	12.0	12.5	12.9	13.4	13.9
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):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1051.0	1048.6	1047.1	1043.3	1042.3	1036.1	1037.1	1036.1	1036.1	1037.5	1042.3
5°	1096.0	1084.5	1081.6	1073.5	1066.8	1055.3	1048.1	1044.3	1038.5	1036.1	1039.5
7.5°	1126.7	1118.1	1110.9	1103.7	1094.1	1080.7	1070.6	1059.1	1049.5	1040.4	1038.0
10°	1121.4	1131.0	1131.0	1126.7	1117.6	1104.2	1092.2	1077.8	1061.0	1046.6	1038.0
12.5°	1076.8	1093.6	1107.0	1117.1	1126.2	1117.1	1105.1	1093.6	1074.9	1053.8	1038.0
15°	1028.0	1045.2	1062.0	1083.1	1105.1	1114.2	1113.7	1100.3	1083.5	1061.5	1039.5
17.5°	993.5	1005.4	1014.5	1037.5	1064.4	1087.9	1103.7	1104.6	1088.3	1068.7	1039.9
20°	967.6	976.2	983.9	996.8	1020.3	1049.0	1078.3	1094.6	1091.7	1070.1	1041.4
22.5°	944.1	950.3	956.6	966.1	984.8	1003.5	1037.5	1071.1	1085.5	1067.7	1039.9
25°	920.6	927.3	932.1	938.8	953.7	969.0	993.0	1034.7	1066.8	1065.8	1037.1
27.5°	892.8	901.9	907.7	916.8	926.8	938.3	954.6	993.9	1039.9	1056.2	1029.4
30°	859.3	872.7	881.3	891.4	900.0	910.1	923.0	947.0	1004.0	1037.5	1021.2
32.5°	810.9	834.8	854.0	863.6	873.2	881.8	893.3	913.4	959.9	1012.1	1012.1
35°	776.4	787.4	804.6	832.4	844.4	853.0	863.6	879.4	909.1	982.0	997.3
37.5°	749.5	753.8	762.5	789.8	812.3	826.2	836.7	846.8	876.0	940.7	978.1
40°	729.4	728.0	727.0	739.9	772.0	794.1	806.1	816.1	838.7	891.4	952.7
42.5°	705.9	704.5	699.7	703.0	718.9	755.8	774.0	785.0	803.7	839.6	924.9
45°	681.5	679.1	677.2	673.8	679.6	700.2	737.5	753.8	764.4	796.5	889.9
47.5°	656.6	653.2	650.8	647.9	644.6	654.2	689.6	718.9	737.1	757.2	847.8
50°	621.1	625.4	622.5	619.2	616.3	614.4	629.2	677.2	699.7	716.0	796.5
52.5°	292.8	569.3	593.3	589.9	586.1	582.7	586.1	622.5	663.3	676.2	734.7
55°	166.8	253.5	527.6	557.8	554.5	549.7	546.8	559.3	620.1	637.4	678.1
57.5°	160.5	161.0	232.9	502.7	521.4	517.1	513.7	516.6	568.4	597.6	628.8
60°	155.3	155.3	155.3	222.4	480.7	482.1	477.8	473.0	495.5	553.0	578.9
62.5°	143.8	146.6	148.1	148.1	219.5	445.2	440.9	439.5	440.4	499.4	529.1
65°	128.9	135.6	138.5	140.4	140.4	230.5	403.0	400.6	397.3	419.8	478.8
67.5°	112.6	119.3	125.6	129.4	129.9	134.2	240.6	360.9	356.1	356.6	425.1
70°	95.8	101.6	108.3	114.1	119.3	121.7	125.6	299.5	315.3	308.6	364.2
72.5°	82.9	85.3	90.1	95.8	102.1	107.8	111.2	119.3	273.6	266.5	277.0
75°	69.0	70.9	74.3	78.1	82.9	89.6	95.4	101.1	145.2	223.3	221.9
77.5°	53.7	57.0	60.9	63.3	65.7	70.4	78.1	83.9	89.6	151.0	177.8
80°	41.2	43.6	45.5	47.9	50.8	54.2	57.0	63.7	70.4	75.7	136.1
82.5°	30.7	32.1	33.5	34.5	35.5	37.4	42.7	45.0	49.4	54.2	64.2
85°	21.6	22.5	23.5	24.0	24.4	24.9	26.8	27.3	31.6	32.6	38.8
87.5°	13.9	14.4	15.3	15.8	15.8	16.3	16.8	16.8	16.8	15.8	19.2
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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CATALOG NUMBER: 4SNLED-LD5-25SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1045.7	1045.7
2.5°	1046.2	1053.8
5°	1044.7	1054.8
7.5°	1040.9	1050.5
10°	1035.1	1046.6
12.5°	1028.9	1039.9
15°	1023.6	1031.8
17.5°	1017.9	1022.7
20°	1010.2	1014.1
22.5°	1002.6	1000.6
25°	993.9	989.6
27.5°	982.9	974.8
30°	972.8	958.5
32.5°	963.3	939.8
35°	950.3	920.6
37.5°	936.9	901.0
40°	921.1	878.4
42.5°	904.3	855.9
45°	883.2	834.3
47.5°	864.5	808.5
50°	838.7	780.7
52.5°	807.0	754.8
55°	769.7	723.2
57.5°	729.4	690.1
60°	686.3	652.2
62.5°	634.0	612.9
65°	572.7	567.9
67.5°	492.7	518.1
70°	404.0	461.0
72.5°	337.9	400.6
75°	277.0	333.1
77.5°	219.5	261.2
80°	137.1	191.2
82.5°	92.0	125.6
85°	55.6	59.9
87.5°	21.6	22.0
90°	0.0	0.0

(END OF REPORT)