

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-LD5-41SL-LW-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 (P33520)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-41SL-LW-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

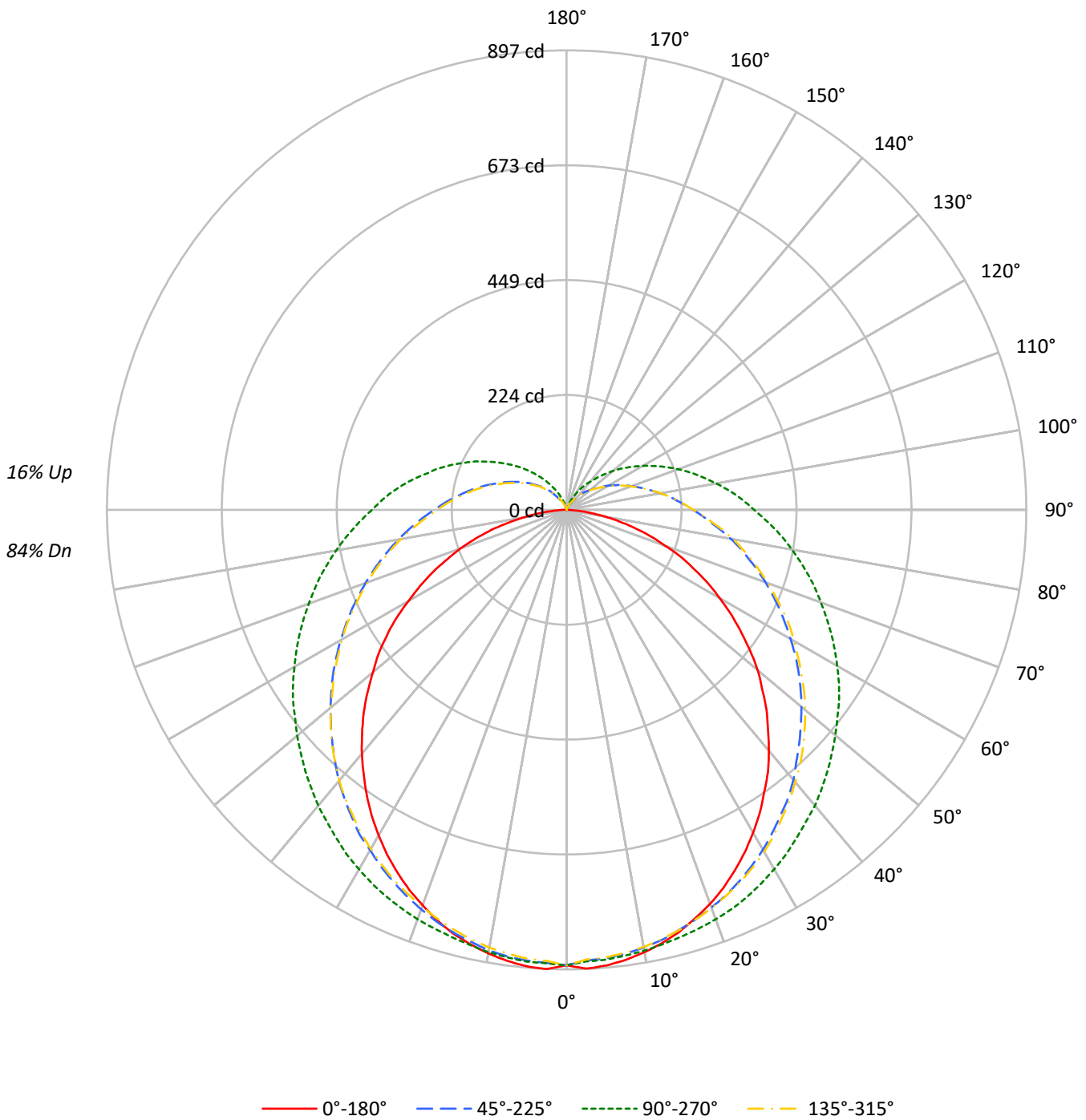
Lumens per Lamp: N/A
Luminaire Lumens: 3862.0 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
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	0	
RCR																						
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84				
1	102	96	91	86	98	92	87	83	85	81	77	78	75	72	72	70	67	64				
2	92	82	74	68	87	79	72	66	73	67	62	67	62	58	62	58	54	51				
3	83	71	62	55	79	69	60	54	63	56	51	58	52	48	54	49	45	42				
4	76	63	53	46	72	60	52	45	56	48	42	51	45	40	47	42	38	35				
5	69	56	46	39	66	54	45	38	50	42	36	46	39	34	42	37	33	30				
6	64	50	41	34	61	48	39	33	45	37	31	41	35	30	38	33	28	26				
7	59	45	36	30	56	43	35	29	40	33	28	38	31	26	35	29	25	23				
8	55	41	32	26	52	40	31	26	37	30	24	34	28	23	32	26	22	20				
9	51	37	29	23	49	36	28	23	34	27	22	32	25	21	30	24	20	18				
10	48	34	26	21	46	33	26	21	31	24	20	29	23	19	27	22	18	16				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7183	7183	7183	7183
5°	7222	6922	7236	6952
10°	7154	6726	7177	6747
15°	7071	6558	7103	6565
20°	6960	6435	6984	6435
25°	6823	6326	6865	6319
30°	6669	6213	6721	6213
35°	6490	6109	6563	6117
40°	6314	6048	6391	6048
45°	6111	5983	6204	5992
50°	5899	5946	5978	5962
55°	5602	5952	5779	5977
60°	5291	5970	5463	6006
65°	4941	6030	5159	6089
70°	4448	6140	4796	6227
75°	3881	6341	4247	6463
80°	3004	6638	3412	6791
85°	1797	7115	2241	7313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	2.2
10°-20°	242.0	6.3
20°-30°	371.1	9.6
30°-40°	457.8	11.9
40°-50°	496.6	12.9
50°-60°	489.5	12.7
60°-70°	442.6	11.5
70°-80°	368.7	9.5
80°-90°	285.6	7.4
90°-100°	216.6	5.6
100°-110°	160.3	4.2
110°-120°	111.5	2.9
120°-130°	71.1	1.8
130°-140°	39.9	1.0
140°-150°	18.2	0.5
150°-160°	5.6	0.1
160°-170°	0.7	0.0
170°-180°	0.0	0.0
0°-30°	697.3	18.1
0°-40°	1155.0	29.9
0°-60°	2141.2	55.4
0°-90°	3238.0	83.8
90°-120°	488.3	12.6
90°-150°	617.6	16.0
90°-180°	624.0	16.2
0°-180°	3862.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	889	889	889	889	889	
5°	893	881	894	885	893	85
15°	852	863	856	864	852	240
25°	776	834	781	833	776	358
35°	672	782	680	783	672	421
45°	551	720	560	721	551	425
55°	415	649	428	652	415	372
65°	276	569	288	575	276	273
75°	139	488	152	497	139	147
85°	26	406	33	417	26	32
90°	1	366	2	380	1	1
95°	1	332	1	348	1	1
105°	1	264	1	279	1	1
115°	1	201	1	218	1	1
125°	1	144	1	160	1	1
135°	1	94	1	111	1	1
145°	1	54	1	67	1	1
155°	1	22	1	31	1	0
165°	1	4	1	6	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9
2.5°	896.4	896.4	895.5	893.6	894.5	897.4	895.5	890.8	888.0	880.5	882.4
5°	892.7	892.7	891.7	889.9	890.8	894.5	892.7	888.9	885.2	878.6	881.4
7.5°	886.1	886.1	885.2	883.3	885.2	888.9	887.0	883.3	880.5	873.9	876.7
10°	876.7	877.7	876.7	873.9	877.7	881.4	880.5	875.8	873.0	867.4	870.2
12.5°	865.5	866.4	865.5	864.5	866.4	872.0	870.2	866.4	864.5	859.9	862.7
15°	852.3	853.3	851.4	851.4	853.3	858.9	858.9	855.2	853.3	848.6	854.2
17.5°	835.5	836.4	835.5	835.5	837.3	843.0	843.9	842.0	840.2	838.3	843.9
20°	818.6	817.7	817.7	816.7	820.5	828.9	828.0	828.0	826.1	826.1	832.7
22.5°	798.9	798.9	798.0	798.0	802.7	810.2	810.2	812.0	810.2	813.9	819.5
25°	776.4	777.3	776.4	778.3	782.0	790.5	791.4	794.2	795.2	798.9	805.5
27.5°	753.0	753.9	753.0	754.8	761.4	768.0	772.6	776.4	777.3	783.0	791.4
30°	727.6	727.6	728.6	730.5	738.0	748.3	752.0	756.7	756.7	766.1	774.5
32.5°	701.4	701.4	701.4	705.1	713.6	725.8	730.5	736.1	738.0	747.3	756.7
35°	672.3	673.3	673.3	676.1	687.3	699.5	706.1	712.6	716.4	727.6	737.0
37.5°	645.1	647.0	644.2	647.9	663.9	674.2	681.7	688.3	694.8	709.8	717.3
40°	614.2	616.1	615.1	622.6	635.7	648.9	657.3	663.9	673.3	688.3	696.7
42.5°	581.4	583.2	585.1	593.6	607.6	620.7	631.1	639.5	650.7	663.9	677.9
45°	551.4	551.4	554.2	564.5	579.5	593.6	605.7	615.1	628.2	642.3	656.4
47.5°	517.6	518.5	522.3	534.5	550.4	567.3	578.5	590.7	604.8	619.8	635.7
50°	486.7	486.7	492.3	505.4	520.4	539.2	551.4	565.4	580.4	598.2	614.2
52.5°	451.0	452.9	461.3	473.5	493.2	510.1	524.2	539.2	557.0	575.7	593.6
55°	415.4	419.1	425.7	442.6	463.2	479.2	496.0	514.8	531.7	552.3	572.9
57.5°	380.7	383.5	393.8	410.7	432.3	452.0	469.8	487.6	508.2	528.9	550.4
60°	345.1	348.8	361.0	377.9	401.3	422.0	442.6	461.3	482.9	504.5	527.0
62.5°	311.3	314.1	328.2	347.9	371.3	393.8	414.5	437.0	460.4	481.0	503.5
65°	275.7	280.4	296.3	314.1	341.3	363.8	387.3	411.6	436.0	458.5	480.1
67.5°	242.9	245.7	262.5	283.2	310.4	335.7	360.1	386.3	411.6	435.1	456.6
70°	204.4	213.8	230.7	252.2	281.3	307.6	333.8	361.0	388.2	412.6	433.2
72.5°	172.5	180.0	198.8	222.2	250.4	281.3	308.5	337.6	364.8	390.1	411.6
75°	138.8	146.3	167.8	194.1	223.2	256.0	284.1	314.1	342.3	367.6	390.1
77.5°	106.0	115.3	138.8	166.0	197.9	231.6	260.7	290.7	319.7	346.9	369.4
80°	76.0	86.3	111.6	142.5	173.5	207.2	239.1	269.1	298.2	325.4	348.8
82.5°	48.8	60.0	87.2	118.1	151.0	184.7	217.5	247.5	276.6	303.8	328.2
85°	26.3	38.4	66.6	97.5	130.3	164.1	196.9	228.8	256.9	282.2	308.5
87.5°	7.5	22.5	49.7	80.6	114.4	145.3	177.2	209.1	237.2	264.4	287.9
90°	0.9	13.1	37.5	66.6	99.4	129.4	161.3	191.3	219.4	246.6	270.1
92.5°	0.9	8.4	29.1	55.3	85.3	116.3	148.2	177.2	203.5	230.7	254.1
95°	0.9	6.6	23.4	46.9	75.0	104.1	134.1	162.2	189.4	214.7	238.2
97.5°	0.9	4.7	18.8	40.3	65.6	92.8	121.9	150.0	176.3	200.7	222.2
100°	0.9	3.8	15.0	34.7	57.2	83.5	109.7	136.9	162.2	185.7	208.2
102.5°	0.9	2.8	13.1	29.1	50.6	74.1	99.4	124.7	149.1	171.6	194.1
105°	0.9	2.8	11.3	25.3	45.0	66.6	90.0	114.4	136.9	158.5	179.1
107.5°	0.9	1.9	9.4	21.6	39.4	60.0	81.6	105.0	125.6	146.3	166.0
110°	0.9	1.9	7.5	19.7	34.7	53.4	74.1	95.6	115.3	135.0	153.8



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.9	1.9	6.6	16.9	30.0	47.8	66.6	86.3	105.0	124.7	141.6
115°	0.9	1.9	5.6	15.0	28.1	41.3	60.0	77.8	96.6	114.4	130.3
117.5°	0.9	1.9	4.7	12.2	24.4	37.5	52.5	70.3	87.2	104.1	119.1
120°	0.9	1.9	3.8	11.3	21.6	33.8	46.9	62.8	78.8	94.7	110.6
122.5°	0.9	0.9	3.8	9.4	18.8	30.0	43.1	55.3	70.3	85.3	99.4
125°	0.9	0.9	3.8	8.4	15.9	27.2	38.4	49.7	62.8	76.0	88.1
127.5°	0.9	0.9	2.8	6.6	14.1	23.4	33.8	45.9	55.3	67.5	79.7
130°	0.9	0.9	2.8	5.6	12.2	19.7	30.0	40.3	51.6	60.0	70.3
132.5°	0.9	0.9	2.8	4.7	9.4	15.9	25.3	34.7	45.0	54.4	62.8
135°	0.9	0.9	1.9	3.8	7.5	13.1	20.6	29.1	39.4	48.8	57.2
137.5°	0.9	0.9	1.9	3.8	5.6	11.3	15.9	23.4	32.8	41.3	49.7
140°	0.9	0.9	1.9	2.8	4.7	8.4	13.1	18.8	26.3	33.8	43.1
142.5°	0.9	0.9	0.9	2.8	3.8	6.6	10.3	15.0	20.6	27.2	34.7
145°	0.9	0.9	0.9	2.8	3.8	4.7	8.4	12.2	15.9	20.6	27.2
147.5°	0.9	0.9	0.9	1.9	2.8	3.8	6.6	9.4	12.2	15.9	19.7
150°	0.9	0.9	0.9	1.9	2.8	3.8	4.7	6.6	9.4	13.1	15.9
152.5°	0.9	0.9	0.9	1.9	1.9	2.8	3.8	4.7	6.6	9.4	11.3
155°	0.9	0.9	0.9	0.9	1.9	2.8	3.8	3.8	4.7	6.6	8.4
157.5°	0.9	0.9	0.9	0.9	1.9	1.9	2.8	2.8	3.8	3.8	5.6
160°	0.9	0.9	0.9	0.9	0.9	1.9	1.9	2.8	2.8	2.8	2.8
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9	1.9	2.8	2.8
165°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9	1.9
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: 4SNLED-LD5-41SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9
2.5°	882.4	883.3	886.1	886.1	884.2	884.2	883.3	882.4	883.3	885.2	885.2
5°	880.5	881.4	884.2	885.2	883.3	882.4	882.4	881.4	882.4	884.2	884.2
7.5°	876.7	877.7	880.5	881.4	879.5	879.5	878.6	877.7	879.5	880.5	880.5
10°	871.1	872.0	875.8	876.7	875.8	874.9	874.9	873.9	874.9	876.7	876.7
12.5°	863.6	865.5	870.2	870.2	870.2	869.2	869.2	868.3	869.2	871.1	870.2
15°	855.2	858.9	862.7	864.5	864.5	864.5	863.6	862.7	864.5	865.5	864.5
17.5°	845.8	850.5	856.1	858.0	858.0	858.9	858.0	857.0	858.9	858.9	858.0
20°	836.4	841.1	846.7	848.6	850.5	851.4	851.4	850.5	851.4	852.3	851.4
22.5°	824.2	829.8	836.4	839.2	841.1	843.0	843.0	843.0	843.9	844.8	843.0
25°	811.1	817.7	825.2	828.0	831.7	832.7	833.6	833.6	834.5	835.5	832.7
27.5°	797.0	804.5	812.0	816.7	819.5	821.4	821.4	822.3	823.3	824.2	821.4
30°	780.1	791.4	798.0	801.7	805.5	808.3	809.2	810.2	811.1	812.0	809.2
32.5°	765.1	774.5	783.0	787.6	792.3	796.1	797.0	797.0	798.9	798.9	796.1
35°	747.3	758.6	767.0	771.7	777.3	780.1	782.0	782.0	783.9	783.9	781.1
37.5°	729.5	740.8	750.1	755.8	762.3	766.1	767.0	767.0	768.9	768.9	765.1
40°	710.8	723.0	733.3	739.8	745.5	750.1	751.1	753.9	753.9	753.0	749.2
42.5°	692.0	703.3	714.5	722.0	729.5	734.2	736.1	737.0	737.0	736.1	733.3
45°	671.4	684.5	694.8	704.2	711.7	716.4	719.2	720.1	720.1	718.3	715.4
47.5°	651.7	664.8	675.1	685.4	692.9	698.6	701.4	702.3	701.4	700.4	697.6
50°	631.1	646.1	656.4	666.7	674.2	678.9	683.6	684.5	683.6	682.6	677.0
52.5°	609.5	625.4	636.7	647.0	655.4	661.1	664.8	665.8	665.8	663.9	660.1
55°	587.9	602.0	616.1	627.3	636.7	642.3	647.0	648.9	647.0	645.1	640.4
57.5°	568.2	581.4	595.4	607.6	617.0	624.5	628.2	630.1	628.2	625.4	620.7
60°	544.8	558.9	574.8	586.0	596.4	603.9	605.7	609.5	607.6	604.8	600.1
62.5°	522.3	539.2	553.2	567.3	575.7	584.2	587.9	589.8	587.9	585.1	580.4
65°	498.8	517.6	531.7	545.7	555.1	563.5	568.2	569.2	567.3	564.5	559.8
67.5°	477.3	495.1	510.1	525.1	533.5	542.0	546.7	548.5	546.7	542.9	538.2
70°	455.7	473.5	491.3	502.6	512.9	522.3	525.1	527.9	526.0	522.3	516.7
72.5°	434.1	452.9	470.7	482.0	493.2	501.7	505.4	508.2	506.3	502.6	496.0
75°	411.6	431.3	449.1	461.3	472.6	481.0	484.8	487.6	485.7	482.0	474.5
77.5°	391.0	410.7	427.6	440.7	452.0	459.5	466.0	467.0	465.1	461.3	453.8
80°	369.4	389.1	407.0	420.1	431.3	438.8	443.5	446.3	444.5	440.7	433.2
82.5°	350.7	368.5	386.3	399.5	410.7	420.1	423.8	426.6	425.7	420.1	414.5
85°	330.1	350.7	364.8	378.8	390.1	399.5	402.3	406.0	405.1	400.4	392.9
87.5°	309.4	330.1	346.9	361.0	371.3	378.8	383.5	385.4	384.4	379.8	371.3
90°	292.6	311.3	328.2	343.2	351.6	360.1	364.8	365.7	365.7	360.1	353.5
92.5°	276.6	294.4	311.3	325.4	335.7	343.2	346.9	348.8	347.9	343.2	335.7
95°	258.8	278.5	294.4	308.5	318.8	326.3	330.1	331.9	331.0	326.3	318.8
97.5°	243.8	261.6	277.6	290.7	301.0	308.5	312.2	314.1	314.1	309.4	301.9
100°	228.8	246.6	261.6	274.7	284.1	291.6	295.4	296.3	295.4	291.6	284.1
102.5°	213.8	230.7	245.7	257.9	268.2	274.7	278.5	279.4	279.4	274.7	267.2
105°	198.8	215.7	229.7	242.9	251.3	257.9	260.7	263.5	262.5	258.8	251.3
107.5°	184.7	201.6	214.7	226.9	235.4	241.9	244.7	247.5	246.6	242.9	235.4
110°	171.6	187.5	199.7	211.9	219.4	226.0	230.7	231.6	229.7	226.0	219.4



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	159.4	173.5	185.7	196.9	205.4	210.0	213.8	215.7	213.8	210.0	205.4
115°	146.3	160.3	172.5	182.8	190.3	196.0	198.8	200.7	198.8	195.0	190.3
117.5°	134.1	147.2	159.4	169.7	176.3	181.0	183.8	185.7	183.8	181.0	176.3
120°	123.8	135.0	146.3	155.7	163.2	166.9	169.7	171.6	170.7	166.9	162.2
122.5°	111.6	123.8	134.1	143.5	150.0	153.8	155.7	157.5	156.6	153.8	149.1
125°	101.3	111.6	121.9	130.3	136.9	140.7	142.5	144.4	143.5	140.7	135.0
127.5°	90.0	101.3	109.7	118.1	122.8	128.5	129.4	131.3	130.3	127.5	122.8
130°	81.6	90.0	98.5	106.0	111.6	115.3	117.2	118.1	116.3	114.4	109.7
132.5°	71.3	80.6	88.1	94.7	98.5	102.2	104.1	105.0	105.0	102.2	98.5
135°	63.8	70.3	76.9	83.5	87.2	91.0	92.8	93.8	92.8	91.0	87.2
137.5°	57.2	62.8	67.5	73.1	77.8	79.7	81.6	81.6	80.6	79.7	76.9
140°	49.7	56.3	60.9	64.7	68.5	69.4	71.3	71.3	70.3	69.4	67.5
142.5°	42.2	47.8	52.5	57.2	60.0	61.9	62.8	63.8	62.8	61.9	59.1
145°	33.8	40.3	45.0	47.8	51.6	52.5	53.4	54.4	53.4	52.5	49.7
147.5°	26.3	31.9	36.6	40.3	43.1	44.1	45.0	45.9	45.0	43.1	42.2
150°	18.8	23.4	29.1	32.8	34.7	36.6	36.6	36.6	37.5	35.6	33.8
152.5°	15.0	16.9	20.6	24.4	27.2	28.1	29.1	29.1	28.1	28.1	26.3
155°	10.3	12.2	15.0	17.8	20.6	21.6	22.5	22.5	21.6	21.6	20.6
157.5°	6.6	8.4	10.3	12.2	15.0	15.9	16.9	16.9	16.9	15.9	15.0
160°	3.8	4.7	5.6	7.5	9.4	10.3	11.3	11.3	11.3	11.3	10.3
162.5°	2.8	2.8	2.8	3.8	4.7	5.6	6.6	6.6	6.6	6.6	5.6
165°	1.9	1.9	1.9	1.9	1.9	2.8	3.8	3.8	3.8	3.8	3.8
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: 4SNLED-LD5-41SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9
2.5°	884.2	884.2	885.2	883.3	877.7	878.6	878.6	882.4	884.2	885.2	889.9
5°	882.4	882.4	884.2	881.4	876.7	876.7	876.7	880.5	881.4	883.3	887.0
7.5°	879.5	879.5	880.5	877.7	872.0	872.0	871.1	874.9	876.7	877.7	881.4
10°	874.9	874.9	875.8	873.0	866.4	866.4	865.5	868.3	869.2	871.1	873.9
12.5°	868.3	868.3	868.3	865.5	858.9	858.0	857.0	859.9	859.9	860.8	863.6
15°	862.7	860.8	860.8	858.0	851.4	849.5	847.7	848.6	850.5	849.5	851.4
17.5°	856.1	854.2	852.3	849.5	841.1	838.3	836.4	837.3	836.4	835.5	837.3
20°	848.6	845.8	844.8	840.2	831.7	827.0	823.3	821.4	822.3	819.5	820.5
22.5°	840.2	836.4	834.5	828.9	820.5	814.8	810.2	806.4	805.5	801.7	802.7
25°	829.8	825.2	822.3	817.7	808.3	801.7	796.1	790.5	787.6	783.0	782.0
27.5°	817.7	813.0	809.2	804.5	795.2	786.7	780.1	772.6	768.9	763.3	760.5
30°	805.5	799.8	794.2	790.5	780.1	770.8	760.5	753.9	748.3	741.7	737.0
32.5°	790.5	784.8	779.2	773.6	764.2	753.0	744.5	734.2	727.6	720.1	714.5
35°	775.5	768.0	762.3	754.8	746.4	733.3	723.0	712.6	704.2	695.8	689.2
37.5°	758.6	753.0	744.5	738.0	727.6	714.5	703.3	690.1	682.6	671.4	662.9
40°	742.6	736.1	727.6	719.2	708.9	693.9	681.7	666.7	658.3	645.1	636.7
42.5°	726.7	717.3	708.9	699.5	688.3	674.2	659.2	644.2	632.9	620.7	608.6
45°	708.9	698.6	688.3	677.9	666.7	652.6	636.7	620.7	606.7	595.4	580.4
47.5°	690.1	679.8	667.6	656.4	644.2	630.1	613.2	596.4	581.4	568.2	552.3
50°	671.4	661.1	647.9	635.7	621.7	607.6	589.8	570.1	554.2	537.3	523.2
52.5°	651.7	641.4	629.2	613.2	598.2	584.2	565.4	544.8	527.0	512.9	495.1
55°	632.0	621.7	607.6	591.7	576.7	558.9	541.0	520.4	500.7	483.8	466.0
57.5°	611.4	602.0	586.0	572.9	554.2	535.4	516.7	497.0	475.4	455.7	435.1
60°	590.7	580.4	565.4	549.5	530.7	512.0	492.3	470.7	448.2	426.6	407.9
62.5°	572.0	558.9	544.8	527.9	508.2	490.4	467.9	444.5	422.0	399.5	376.9
65°	550.4	536.4	523.2	506.3	485.7	465.1	442.6	419.1	394.8	370.4	347.9
67.5°	528.9	514.8	500.7	483.8	462.3	440.7	417.3	393.8	366.6	343.2	316.9
70°	507.3	496.0	478.2	460.4	440.7	417.3	393.8	368.5	340.4	315.1	287.9
72.5°	485.7	474.5	456.6	437.9	419.1	394.8	369.4	344.1	317.9	288.8	259.7
75°	465.1	451.0	435.1	417.3	397.6	372.3	346.9	320.7	289.7	262.5	232.5
77.5°	445.4	432.3	416.3	396.6	375.1	350.7	324.4	297.2	266.3	237.2	204.4
80°	423.8	410.7	394.8	375.1	353.5	330.1	301.9	273.8	243.8	211.9	178.2
82.5°	403.2	391.0	373.2	355.4	331.9	308.5	280.4	252.2	220.4	189.4	156.6
85°	381.6	369.4	352.6	333.8	311.3	286.0	259.7	231.6	199.7	167.8	135.0
87.5°	362.9	348.8	331.9	313.2	290.7	266.3	241.0	211.0	180.0	149.1	115.3
90°	343.2	330.1	313.2	294.4	271.9	247.5	221.3	193.2	163.2	131.3	99.4
92.5°	326.3	312.2	296.3	277.6	255.0	231.6	205.4	177.2	148.2	117.2	86.3
95°	309.4	295.4	280.4	261.6	239.1	215.7	189.4	162.2	134.1	104.1	75.0
97.5°	290.7	278.5	263.5	245.7	223.2	200.7	175.3	149.1	121.9	92.8	65.6
100°	275.7	261.6	247.5	228.8	208.2	186.6	161.3	136.0	109.7	82.5	57.2
102.5°	258.8	245.7	231.6	213.8	193.2	171.6	148.2	123.8	99.4	74.1	49.7
105°	242.9	230.7	215.7	198.8	179.1	158.5	136.0	113.5	90.0	65.6	44.1
107.5°	226.9	214.7	200.7	184.7	166.0	145.3	124.7	102.2	80.6	59.1	39.4
110°	211.0	199.7	186.6	170.7	152.8	134.1	114.4	93.8	72.2	52.5	34.7



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	196.9	185.7	172.5	157.5	140.7	122.8	104.1	84.4	64.7	46.9	30.0
115°	182.8	172.5	159.4	146.3	129.4	112.5	94.7	76.0	58.1	42.2	26.3
117.5°	168.8	158.5	146.3	133.2	118.1	102.2	85.3	67.5	52.5	37.5	23.4
120°	154.7	145.3	134.1	121.9	108.8	92.8	76.0	60.9	46.9	32.8	20.6
122.5°	141.6	133.2	122.8	111.6	97.5	82.5	68.5	55.3	42.2	29.1	16.9
125°	129.4	121.0	111.6	100.3	87.2	74.1	61.9	49.7	36.6	25.3	14.1
127.5°	117.2	108.8	99.4	89.1	78.8	66.6	55.3	44.1	32.8	22.5	12.2
130°	105.0	97.5	89.1	80.6	70.3	59.1	49.7	38.4	28.1	17.8	10.3
132.5°	92.8	87.2	79.7	71.3	61.9	53.4	43.1	33.8	24.4	15.9	9.4
135°	82.5	76.9	70.3	62.8	55.3	46.9	37.5	29.1	20.6	13.1	7.5
137.5°	73.1	68.5	61.9	55.3	48.8	40.3	32.8	24.4	16.9	11.3	5.6
140°	64.7	60.0	54.4	47.8	42.2	34.7	27.2	19.7	15.0	9.4	4.7
142.5°	56.3	51.6	46.9	41.3	35.6	29.1	22.5	16.9	12.2	7.5	4.7
145°	47.8	44.1	39.4	34.7	29.1	23.4	18.8	14.1	9.4	5.6	3.8
147.5°	39.4	36.6	31.9	28.1	23.4	18.8	15.0	11.3	7.5	4.7	2.8
150°	31.9	29.1	25.3	21.6	18.8	15.0	12.2	8.4	5.6	4.7	2.8
152.5°	24.4	22.5	19.7	17.8	15.0	11.3	8.4	6.6	4.7	3.8	1.9
155°	19.7	17.8	15.9	13.1	11.3	8.4	6.6	4.7	3.8	2.8	1.9
157.5°	14.1	13.1	11.3	9.4	7.5	5.6	4.7	4.7	2.8	1.9	0.9
160°	9.4	8.4	7.5	5.6	4.7	4.7	3.8	2.8	1.9	1.9	0.9
162.5°	5.6	4.7	4.7	4.7	3.8	3.8	2.8	1.9	1.9	0.9	0.9
165°	3.8	3.8	3.8	2.8	2.8	2.8	1.9	0.9	0.9	0.9	0.9
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: 4SNLED-LD5-41SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9
2.5°	889.9	887.0	890.8	897.4	898.3	897.4	895.5	898.3	902.0	901.1	894.5
5°	888.0	884.2	888.0	894.5	894.5	893.6	892.7	895.5	899.2	898.3	892.7
7.5°	882.4	878.6	882.4	888.0	888.9	887.0	887.0	889.9	893.6	892.7	888.0
10°	874.9	871.1	873.0	879.5	881.4	879.5	879.5	882.4	887.0	886.1	880.5
12.5°	863.6	860.8	862.7	868.3	870.2	869.2	868.3	872.0	876.7	876.7	871.1
15°	851.4	847.7	849.5	856.1	857.0	855.2	856.1	858.9	864.5	864.5	859.9
17.5°	837.3	832.7	835.5	840.2	841.1	841.1	841.1	844.8	851.4	850.5	846.7
20°	821.4	814.8	816.7	821.4	823.3	823.3	823.3	829.8	834.5	834.5	830.8
22.5°	802.7	798.0	798.0	802.7	805.5	804.5	804.5	810.2	816.7	815.8	815.8
25°	781.1	777.3	775.5	781.1	782.0	783.0	784.8	790.5	798.0	798.0	798.9
27.5°	758.6	754.8	753.9	758.6	759.5	760.5	762.3	768.9	776.4	777.3	779.2
30°	737.0	731.4	729.5	733.3	735.1	736.1	736.1	746.4	753.0	755.8	759.5
32.5°	711.7	706.1	701.4	707.9	708.9	710.8	711.7	722.0	729.5	734.2	739.8
35°	686.4	677.0	675.1	679.8	681.7	682.6	684.5	695.8	706.1	709.8	717.3
37.5°	658.3	651.7	646.1	650.7	652.6	653.6	659.2	669.5	679.8	685.4	692.9
40°	632.0	623.6	618.9	621.7	623.6	624.5	631.1	642.3	654.5	661.1	670.4
42.5°	602.9	591.7	587.9	590.7	591.7	594.5	600.1	615.1	627.3	636.7	644.2
45°	573.9	565.4	557.0	559.8	560.7	562.6	571.0	587.0	600.1	611.4	619.8
47.5°	543.9	533.5	525.1	527.0	530.7	531.7	541.0	559.8	572.0	584.2	595.4
50°	513.8	499.8	493.2	493.2	495.1	499.8	512.0	530.7	543.9	557.9	570.1
52.5°	482.9	469.8	462.3	463.2	465.1	470.7	482.0	500.7	515.7	530.7	545.7
55°	452.0	437.9	430.4	428.5	430.4	437.9	451.0	470.7	485.7	503.5	519.5
57.5°	421.0	404.1	397.6	394.8	396.6	406.0	419.1	439.8	458.5	475.4	494.2
60°	387.3	374.1	362.9	356.3	361.0	373.2	387.3	408.8	428.5	447.3	467.9
62.5°	358.2	341.3	329.1	322.6	327.2	337.6	357.3	377.9	399.5	421.0	441.6
65°	325.4	308.5	294.4	287.9	292.6	304.7	324.4	346.9	370.4	391.9	416.3
67.5°	293.5	275.7	258.8	252.2	257.9	271.0	292.6	317.9	343.2	365.7	391.9
70°	262.5	242.9	225.0	220.4	224.1	241.9	262.5	287.9	314.1	340.4	367.6
72.5°	234.4	210.0	191.3	185.7	190.3	210.0	233.5	259.7	287.9	316.0	345.1
75°	201.6	179.1	158.5	151.9	157.5	175.3	204.4	232.5	262.5	292.6	319.7
77.5°	175.3	149.1	127.5	117.2	126.6	149.1	177.2	207.2	238.2	269.1	300.1
80°	148.2	121.0	97.5	86.3	96.6	121.0	149.1	181.9	216.6	247.5	275.7
82.5°	123.8	94.7	70.3	58.1	69.4	96.6	127.5	160.3	194.1	225.0	257.9
85°	101.3	71.3	45.9	32.8	48.8	73.1	106.0	139.7	174.4	206.3	238.2
87.5°	82.5	53.4	28.1	14.1	30.0	57.2	88.1	121.9	156.6	188.5	218.5
90°	67.5	38.4	15.0	1.9	17.8	43.1	73.1	106.0	138.8	171.6	201.6
92.5°	55.3	29.1	8.4	0.9	11.3	34.7	62.8	93.8	125.6	157.5	186.6
95°	45.9	22.5	5.6	0.9	8.4	27.2	53.4	83.5	113.5	144.4	173.5
97.5°	39.4	18.8	4.7	0.9	6.6	23.4	45.9	74.1	103.1	132.2	160.3
100°	33.8	15.0	3.8	0.9	5.6	19.7	40.3	65.6	92.8	121.0	148.2
102.5°	29.1	12.2	2.8	0.9	4.7	16.9	35.6	59.1	83.5	110.6	136.9
105°	25.3	10.3	2.8	0.9	3.8	15.0	31.9	52.5	76.9	101.3	126.6
107.5°	21.6	8.4	1.9	0.9	2.8	12.2	28.1	47.8	69.4	92.8	116.3
110°	18.8	7.5	1.9	0.9	2.8	11.3	24.4	43.1	62.8	84.4	106.9



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	15.9	5.6	1.9	0.9	1.9	9.4	21.6	38.4	57.2	76.9	98.5
115°	14.1	4.7	0.9	0.9	1.9	8.4	19.7	34.7	51.6	70.3	90.0
117.5°	11.3	3.8	0.9	0.9	0.9	6.6	16.9	30.9	46.9	64.7	82.5
120°	9.4	3.8	0.9	0.9	0.9	5.6	15.0	27.2	42.2	58.1	75.0
122.5°	8.4	2.8	0.9	0.9	0.9	4.7	13.1	24.4	37.5	52.5	68.5
125°	7.5	2.8	0.9	0.9	0.9	3.8	11.3	21.6	33.8	46.9	61.9
127.5°	5.6	2.8	0.9	0.9	0.9	2.8	10.3	18.8	30.0	42.2	55.3
130°	4.7	1.9	0.9	0.9	0.9	2.8	8.4	16.9	26.3	37.5	49.7
132.5°	3.8	1.9	0.9	0.9	0.9	1.9	6.6	13.1	22.5	32.8	44.1
135°	3.8	1.9	0.9	0.9	0.9	1.9	4.7	11.3	18.8	28.1	37.5
137.5°	3.8	0.9	0.9	0.9	0.9	1.9	3.8	8.4	15.0	22.5	30.9
140°	2.8	0.9	0.9	0.9	0.9	0.9	2.8	6.6	12.2	18.8	26.3
142.5°	2.8	0.9	0.9	0.9	0.9	0.9	2.8	4.7	9.4	15.0	20.6
145°	1.9	0.9	0.9	0.9	0.9	0.9	1.9	3.8	7.5	11.3	16.9
147.5°	1.9	0.9	0.9	0.9	0.9	0.9	1.9	2.8	5.6	9.4	13.1
150°	1.9	0.9	0.9	0.9	0.9	0.9	1.9	2.8	3.8	6.6	10.3
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9	2.8	4.7	6.6
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	2.8	3.8	4.7
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9	2.8	3.8
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9	2.8
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9
165°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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: 4SNLED-LD5-41SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9
2.5°	891.7	885.2	887.0	886.1	888.0	890.8	890.8	889.9	889.9	888.0	886.1
5°	889.9	883.3	886.1	885.2	887.0	889.9	889.9	888.9	888.9	886.1	885.2
7.5°	884.2	879.5	881.4	881.4	883.3	886.1	886.1	885.2	885.2	882.4	881.4
10°	878.6	873.0	875.8	875.8	877.7	881.4	881.4	880.5	880.5	877.7	876.7
12.5°	869.2	863.6	868.3	869.2	871.1	874.9	873.9	873.9	873.9	871.1	870.2
15°	858.0	854.2	858.9	859.9	862.7	867.4	867.4	867.4	867.4	864.5	863.6
17.5°	845.8	843.0	847.7	849.5	853.3	858.0	858.0	858.9	859.9	858.0	857.0
20°	831.7	829.8	834.5	838.3	843.9	848.6	850.5	851.4	853.3	851.4	850.5
22.5°	815.8	815.8	822.3	826.1	832.7	837.3	840.2	843.0	844.8	843.0	842.0
25°	798.0	800.8	807.3	813.9	821.4	826.1	828.9	832.7	834.5	833.6	832.7
27.5°	781.1	784.8	793.3	799.8	806.4	813.9	816.7	821.4	823.3	823.3	822.3
30°	761.4	767.0	776.4	783.9	792.3	799.8	803.6	808.3	811.1	809.2	810.2
32.5°	742.6	752.0	759.5	768.0	777.3	784.8	789.5	795.2	798.0	797.0	798.0
35°	722.0	731.4	741.7	750.1	761.4	768.9	775.5	780.1	783.9	783.0	783.0
37.5°	699.5	711.7	722.0	733.3	743.6	752.0	758.6	764.2	768.0	768.0	768.0
40°	677.9	691.1	701.4	714.5	727.6	735.1	742.6	748.3	752.0	753.0	753.9
42.5°	654.5	668.6	680.8	694.8	707.9	717.3	725.8	732.3	736.1	738.0	737.0
45°	632.9	646.1	660.1	676.1	688.3	697.6	707.9	715.4	719.2	720.1	721.1
47.5°	608.6	623.6	639.5	655.4	667.6	679.8	689.2	696.7	700.4	703.3	703.3
50°	585.1	601.1	618.9	635.7	648.9	661.1	670.4	678.9	683.6	685.4	686.4
52.5°	563.5	578.5	597.3	614.2	627.3	639.5	651.7	661.1	665.8	667.6	667.6
55°	537.3	556.0	576.7	592.6	606.7	620.7	632.9	642.3	647.0	649.8	651.7
57.5°	512.9	532.6	554.2	571.0	587.9	601.1	612.3	624.5	628.2	632.0	632.9
60°	489.5	509.2	529.8	548.5	565.4	579.5	592.6	602.9	609.5	611.4	613.2
62.5°	465.1	485.7	507.3	526.0	543.9	560.7	572.9	582.3	589.8	592.6	594.5
65°	441.6	463.2	484.8	504.5	523.2	540.1	552.3	561.7	569.2	573.9	574.8
67.5°	416.3	439.8	462.3	482.9	501.7	519.5	531.7	541.0	548.5	554.2	555.1
70°	392.9	417.3	439.8	462.3	481.0	498.8	512.0	521.3	529.8	533.5	535.4
72.5°	370.4	395.7	419.1	441.6	460.4	478.2	492.3	501.7	510.1	514.8	515.7
75°	348.8	374.1	399.5	421.0	440.7	458.5	472.6	482.9	490.4	495.1	497.0
77.5°	327.2	353.5	378.8	400.4	421.0	438.8	451.0	463.2	470.7	476.3	476.3
80°	305.7	332.9	359.1	380.7	401.3	417.3	431.3	443.5	451.0	456.6	456.6
82.5°	286.9	313.2	338.5	360.1	380.7	398.5	412.6	423.8	432.3	436.0	437.0
85°	265.4	294.4	317.9	341.3	361.0	377.9	391.9	404.1	411.6	415.4	417.3
87.5°	247.5	275.7	301.0	321.6	341.3	358.2	374.1	384.4	391.9	396.6	398.5
90°	230.7	257.9	283.2	303.8	324.4	340.4	355.4	365.7	374.1	377.9	379.8
92.5°	215.7	242.9	267.2	287.9	307.6	325.4	339.4	349.8	357.3	361.0	363.8
95°	201.6	227.9	251.3	273.8	292.6	308.5	323.5	333.8	342.3	345.1	347.9
97.5°	187.5	212.9	236.3	257.9	277.6	292.6	306.6	316.9	323.5	328.2	331.0
100°	175.3	199.7	222.2	242.9	261.6	275.7	290.7	300.1	306.6	310.4	314.1
102.5°	162.2	186.6	208.2	227.9	247.5	260.7	274.7	284.1	289.7	296.3	296.3
105°	151.0	173.5	195.0	213.8	230.7	246.6	258.8	268.2	274.7	279.4	279.4
107.5°	138.8	161.3	181.9	201.6	217.5	232.5	243.8	252.2	259.7	262.5	265.4
110°	129.4	149.1	169.7	188.5	203.5	217.5	228.8	238.2	244.7	247.5	249.4



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	118.1	138.8	157.5	175.3	190.3	203.5	214.7	222.2	228.8	232.5	233.5
115°	108.8	128.5	145.3	162.2	178.2	189.4	199.7	207.2	213.8	216.6	218.5
117.5°	100.3	118.1	135.0	149.1	164.1	176.3	186.6	193.2	198.8	202.5	204.4
120°	91.9	108.8	123.8	137.8	151.9	163.2	172.5	179.1	185.7	188.5	188.5
122.5°	83.5	99.4	113.5	126.6	139.7	150.0	160.3	166.0	171.6	174.4	174.4
125°	76.0	91.0	104.1	116.3	128.5	137.8	146.3	152.8	158.5	160.3	160.3
127.5°	68.5	82.5	94.7	106.0	116.3	125.6	134.1	140.7	145.3	147.2	147.2
130°	61.9	74.1	85.3	96.6	106.9	114.4	122.8	128.5	131.3	134.1	135.0
132.5°	55.3	66.6	76.9	86.3	96.6	104.1	110.6	116.3	119.1	121.9	122.8
135°	48.8	59.1	68.5	77.8	86.3	93.8	99.4	104.1	107.8	109.7	110.6
137.5°	41.3	52.5	60.9	68.5	77.8	83.5	90.0	92.8	96.6	98.5	98.5
140°	34.7	43.1	52.5	60.0	67.5	73.1	78.8	83.5	86.3	87.2	87.2
142.5°	28.1	35.6	43.1	52.5	59.1	63.8	69.4	73.1	75.0	76.0	76.9
145°	22.5	28.1	34.7	43.1	50.6	56.3	59.1	62.8	64.7	65.6	66.6
147.5°	16.9	22.5	28.1	33.8	41.3	46.9	49.7	53.4	55.3	56.3	56.3
150°	13.1	16.9	20.6	26.3	31.9	38.4	42.2	45.0	45.9	46.9	46.9
152.5°	9.4	13.1	15.9	19.7	23.4	29.1	34.7	36.6	37.5	38.4	38.4
155°	6.6	9.4	11.3	14.1	16.9	21.6	26.3	29.1	30.0	30.9	30.9
157.5°	4.7	6.6	7.5	10.3	12.2	14.1	17.8	22.5	23.4	23.4	23.4
160°	2.8	3.8	4.7	6.6	7.5	9.4	11.3	14.1	16.9	16.9	16.9
162.5°	1.9	2.8	2.8	3.8	3.8	5.6	6.6	7.5	10.3	11.3	11.3
165°	0.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8	4.7	5.6	5.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9	888.9
2.5°	887.0	888.9	888.0	888.0	888.0	889.9	888.0	879.5	881.4	883.3	885.2
5°	886.1	887.0	887.0	886.1	886.1	888.0	886.1	877.7	879.5	881.4	882.4
7.5°	882.4	883.3	883.3	883.3	882.4	884.2	881.4	873.9	873.9	875.8	876.7
10°	877.7	879.5	878.6	877.7	877.7	877.7	875.8	867.4	867.4	868.3	869.2
12.5°	872.0	872.0	872.0	871.1	870.2	870.2	868.3	859.9	858.9	860.8	859.9
15°	864.5	866.4	864.5	863.6	861.7	861.7	858.9	850.5	848.6	849.5	848.6
17.5°	858.0	858.9	857.0	855.2	853.3	852.3	849.5	840.2	837.3	838.3	836.4
20°	851.4	851.4	849.5	847.7	844.8	842.0	838.3	828.9	824.2	824.2	820.5
22.5°	843.0	843.0	841.1	838.3	835.5	831.7	828.0	818.6	811.1	809.2	806.4
25°	833.6	832.7	831.7	828.9	823.3	819.5	815.8	805.5	797.0	793.3	788.6
27.5°	822.3	822.3	819.5	816.7	811.1	806.4	801.7	792.3	781.1	776.4	769.8
30°	810.2	810.2	807.3	803.6	798.0	792.3	786.7	775.5	764.2	757.6	750.1
32.5°	798.0	797.0	794.2	790.5	784.8	776.4	771.7	760.5	747.3	739.8	729.5
35°	783.0	782.0	779.2	774.5	767.0	760.5	753.0	742.6	727.6	718.3	707.0
37.5°	768.0	767.0	765.1	758.6	751.1	743.6	734.2	723.9	709.8	697.6	686.4
40°	753.0	752.0	748.3	743.6	734.2	724.8	715.4	705.1	690.1	676.1	663.9
42.5°	737.0	736.1	731.4	725.8	715.4	706.1	694.8	683.6	668.6	651.7	639.5
45°	721.1	719.2	714.5	707.9	696.7	686.4	675.1	662.0	647.0	631.1	615.1
47.5°	704.2	701.4	696.7	687.3	677.9	666.7	653.6	639.5	624.5	606.7	589.8
50°	685.4	683.6	677.9	669.5	658.3	647.0	632.0	617.9	600.1	583.2	562.6
52.5°	667.6	663.9	659.2	649.8	638.6	626.4	610.4	593.6	575.7	559.8	538.2
55°	648.9	647.0	640.4	632.9	618.9	604.8	589.8	572.0	552.3	533.5	512.9
57.5°	631.1	627.3	621.7	611.4	599.2	585.1	569.2	550.4	528.9	509.2	486.7
60°	613.2	607.6	601.1	591.7	578.5	563.5	546.7	527.0	505.4	483.8	460.4
62.5°	593.6	588.9	581.4	572.0	558.9	542.9	525.1	504.5	483.8	461.3	436.0
65°	573.9	569.2	561.7	552.3	539.2	521.3	502.6	482.0	458.5	437.0	409.8
67.5°	554.2	549.5	541.0	530.7	517.6	500.7	481.0	459.5	436.0	412.6	384.4
70°	534.5	528.9	521.3	510.1	497.0	479.2	459.5	437.0	413.5	388.2	360.1
72.5°	514.8	510.1	500.7	490.4	476.3	458.5	438.8	416.3	391.9	365.7	337.6
75°	495.1	489.5	482.9	470.7	455.7	438.8	418.2	395.7	369.4	344.1	315.1
77.5°	475.4	470.7	462.3	450.1	436.0	418.2	397.6	375.1	348.8	322.6	291.6
80°	455.7	450.1	443.5	432.3	416.3	398.5	376.9	354.4	328.2	301.0	270.1
82.5°	436.0	430.4	422.9	411.6	396.6	378.8	358.2	333.8	307.6	279.4	250.4
85°	416.3	411.6	403.2	391.9	376.0	358.2	337.6	316.0	287.9	259.7	230.7
87.5°	396.6	391.9	383.5	372.3	357.3	339.4	318.8	296.3	269.1	242.9	211.0
90°	377.9	374.1	365.7	354.4	339.4	321.6	302.9	278.5	252.2	226.0	196.0
92.5°	361.0	357.3	349.8	338.5	325.4	305.7	286.9	263.5	237.2	210.0	181.0
95°	346.0	341.3	333.8	323.5	307.6	290.7	271.9	248.5	223.2	196.0	167.8
97.5°	329.1	324.4	316.9	305.7	292.6	274.7	256.0	233.5	208.2	182.8	154.7
100°	312.2	307.6	299.1	289.7	276.6	258.8	241.0	218.5	195.0	170.7	143.5
102.5°	295.4	290.7	283.2	273.8	260.7	244.7	226.9	205.4	181.9	157.5	132.2
105°	279.4	274.7	267.2	257.9	245.7	229.7	211.0	192.2	169.7	146.3	121.9
107.5°	263.5	258.8	252.2	242.9	230.7	215.7	197.9	178.2	157.5	135.0	111.6
110°	247.5	243.8	236.3	227.9	215.7	200.7	184.7	166.0	145.3	124.7	102.2



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	232.5	228.8	221.3	211.9	201.6	187.5	171.6	153.8	134.1	114.4	92.8
115°	217.5	212.9	206.3	197.9	187.5	174.4	159.4	143.5	123.8	105.0	85.3
117.5°	202.5	198.8	192.2	183.8	174.4	161.3	147.2	132.2	113.5	95.6	77.8
120°	187.5	184.7	178.2	170.7	161.3	149.1	136.0	121.0	104.1	87.2	70.3
122.5°	173.5	170.7	164.1	157.5	148.2	136.9	124.7	110.6	95.6	79.7	64.7
125°	160.3	156.6	151.0	144.4	136.0	125.6	113.5	100.3	86.3	72.2	58.1
127.5°	146.3	143.5	139.7	132.2	123.8	114.4	103.1	91.9	78.8	65.6	52.5
130°	135.0	131.3	126.6	121.0	113.5	104.1	93.8	82.5	71.3	59.1	45.9
132.5°	121.9	118.1	114.4	108.8	102.2	93.8	84.4	74.1	63.8	52.5	41.3
135°	109.7	106.9	103.1	97.5	91.0	84.4	75.0	65.6	56.3	45.9	36.6
137.5°	98.5	95.6	91.9	88.1	81.6	75.0	66.6	58.1	49.7	40.3	31.9
140°	87.2	85.3	81.6	77.8	72.2	65.6	58.1	50.6	43.1	34.7	27.2
142.5°	76.0	74.1	71.3	67.5	62.8	57.2	50.6	44.1	36.6	30.0	23.4
145°	65.6	64.7	61.9	58.1	54.4	48.8	43.1	37.5	30.9	25.3	18.8
147.5°	55.3	54.4	52.5	49.7	45.9	41.3	36.6	30.9	26.3	20.6	15.0
150°	45.9	45.0	44.1	40.3	38.4	33.8	30.0	25.3	21.6	15.9	12.2
152.5°	37.5	37.5	35.6	32.8	30.9	27.2	24.4	20.6	16.9	13.1	9.4
155°	30.0	29.1	28.1	26.3	24.4	21.6	18.8	15.9	13.1	9.4	6.6
157.5°	23.4	22.5	21.6	19.7	17.8	16.9	14.1	11.3	8.4	6.6	4.7
160°	16.9	15.9	15.0	14.1	13.1	11.3	9.4	7.5	5.6	3.8	2.8
162.5°	11.3	10.3	10.3	9.4	8.4	6.6	5.6	4.7	3.8	2.8	1.9
165°	5.6	5.6	4.7	4.7	3.8	2.8	2.8	2.8	1.9	1.9	0.9
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: 4SNLED-LD5-41SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	888.9	888.9	888.9	888.9	888.9	888.9	888.9
2.5°	884.2	884.2	888.0	887.0	884.2	889.9	896.4
5°	881.4	881.4	884.2	884.2	881.4	887.0	892.7
7.5°	876.7	875.8	878.6	878.6	874.9	879.5	886.1
10°	868.3	867.4	870.2	870.2	866.4	871.1	876.7
12.5°	858.9	857.0	859.9	858.9	855.2	859.9	865.5
15°	846.7	845.8	847.7	845.8	842.0	846.7	852.3
17.5°	834.5	831.7	832.7	832.7	826.1	830.8	835.5
20°	818.6	814.8	815.8	814.8	810.2	813.0	818.6
22.5°	802.7	797.0	797.0	796.1	790.5	794.2	798.9
25°	783.0	776.4	776.4	775.5	768.9	771.7	776.4
27.5°	763.3	756.7	753.9	753.0	746.4	746.4	753.0
30°	742.6	733.3	731.4	728.6	722.0	722.0	727.6
32.5°	723.0	709.8	706.1	702.3	695.8	694.8	701.4
35°	696.7	686.4	679.8	676.1	668.6	666.7	672.3
37.5°	675.1	662.0	652.6	647.9	640.4	637.6	645.1
40°	651.7	637.6	625.4	622.6	611.4	607.6	614.2
42.5°	625.4	610.4	598.2	592.6	584.2	580.4	581.4
45°	599.2	583.2	570.1	562.6	554.2	547.6	551.4
47.5°	572.0	557.9	542.0	530.7	520.4	515.7	517.6
50°	544.8	527.9	512.9	500.7	488.5	482.9	486.7
52.5°	517.6	499.8	482.9	469.8	455.7	450.1	451.0
55°	491.3	472.6	452.9	438.8	425.7	417.3	415.4
57.5°	465.1	444.5	423.8	407.9	391.0	383.5	380.7
60°	437.0	415.4	393.8	375.1	357.3	348.8	345.1
62.5°	410.7	387.3	362.9	343.2	325.4	314.1	311.3
65°	385.4	358.2	333.8	311.3	291.6	279.4	275.7
67.5°	358.2	330.1	303.8	279.4	260.7	244.7	242.9
70°	332.9	302.9	273.8	248.5	227.9	211.9	204.4
72.5°	307.6	276.6	246.6	219.4	193.2	178.2	172.5
75°	283.2	251.3	219.4	191.3	162.2	144.4	138.8
77.5°	260.7	227.9	194.1	163.2	136.0	113.5	106.0
80°	239.1	205.4	169.7	137.8	108.8	84.4	76.0
82.5°	216.6	184.7	148.2	114.4	84.4	59.1	48.8
85°	196.9	165.0	128.5	94.7	64.7	37.5	26.3
87.5°	181.0	146.3	113.5	79.7	48.8	21.6	7.5
90°	165.0	131.3	98.5	65.6	36.6	12.2	0.9
92.5°	151.0	119.1	86.3	56.3	28.1	8.4	0.9
95°	137.8	106.9	76.0	46.9	22.5	5.6	0.9
97.5°	125.6	96.6	67.5	40.3	18.8	4.7	0.9
100°	115.3	87.2	60.0	35.6	15.9	3.8	0.9
102.5°	105.0	78.8	53.4	30.9	14.1	2.8	0.9
105°	96.6	71.3	47.8	28.1	12.2	2.8	0.9
107.5°	88.1	64.7	43.1	24.4	10.3	1.9	0.9
110°	79.7	59.1	38.4	21.6	9.4	1.9	0.9



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	73.1	53.4	34.7	19.7	7.5	1.9	0.9
115°	66.6	47.8	30.9	16.9	6.6	0.9	0.9
117.5°	60.0	43.1	27.2	15.0	5.6	0.9	0.9
120°	54.4	38.4	24.4	13.1	4.7	0.9	0.9
122.5°	48.8	34.7	21.6	11.3	3.8	0.9	0.9
125°	44.1	30.9	18.8	9.4	2.8	0.9	0.9
127.5°	39.4	27.2	16.9	8.4	2.8	0.9	0.9
130°	34.7	24.4	14.1	6.6	1.9	0.9	0.9
132.5°	30.9	20.6	12.2	5.6	1.9	0.9	0.9
135°	27.2	17.8	10.3	3.8	1.9	0.9	0.9
137.5°	23.4	15.0	8.4	2.8	0.9	0.9	0.9
140°	19.7	13.1	6.6	2.8	0.9	0.9	0.9
142.5°	16.9	10.3	4.7	1.9	0.9	0.9	0.9
145°	13.1	8.4	3.8	1.9	0.9	0.9	0.9
147.5°	10.3	6.6	2.8	1.9	0.9	0.9	0.9
150°	7.5	4.7	2.8	0.9	0.9	0.9	0.9
152.5°	5.6	3.8	1.9	0.9	0.9	0.9	0.9
155°	3.8	2.8	1.9	0.9	0.9	0.9	0.9
157.5°	2.8	1.9	0.9	0.9	0.9	0.9	0.9
160°	1.9	0.9	0.9	0.9	0.9	0.9	0.9
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9
165°	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)