

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-LD5-27SL-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-LD5-27SL-LW-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

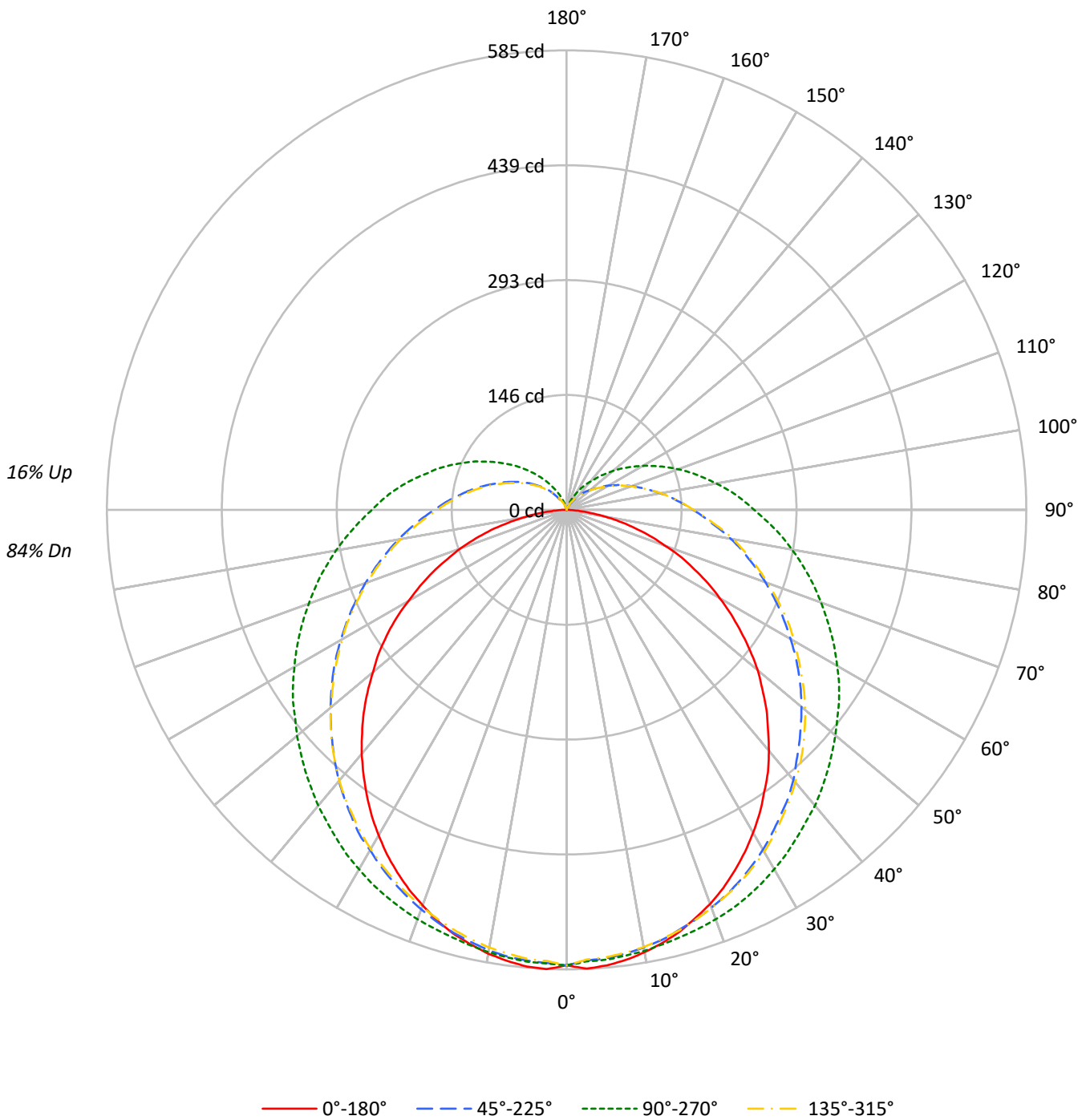
Lumens per Lamp: N/A
Luminaire Lumens: 2519.0 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 21
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-LD5-27SL-LW-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	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°	4685	4685	4685	4685
5°	4710	4515	4720	4535
10°	4666	4387	4682	4401
15°	4612	4277	4633	4282
20°	4540	4197	4556	4197
25°	4450	4126	4478	4121
30°	4350	4052	4384	4052
35°	4233	3985	4281	3990
40°	4118	3945	4168	3945
45°	3985	3903	4046	3908
50°	3847	3878	3899	3889
55°	3654	3882	3770	3899
60°	3451	3893	3563	3918
65°	3222	3932	3365	3972
70°	2900	4005	3127	4062
75°	2531	4135	2771	4215
80°	1957	4330	2226	4431
85°	1168	4641	1462	4770



TEST NUMBER: P#

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.9	2.2
10°-20°	157.9	6.3
20°-30°	242.0	9.6
30°-40°	298.6	11.9
40°-50°	323.9	12.9
50°-60°	319.3	12.7
60°-70°	288.7	11.5
70°-80°	240.5	9.5
80°-90°	186.3	7.4
90°-100°	141.3	5.6
100°-110°	104.5	4.1
110°-120°	72.7	2.9
120°-130°	46.4	1.8
130°-140°	26.0	1.0
140°-150°	11.9	0.5
150°-160°	3.7	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	454.8	18.1
0°-40°	753.4	29.9
0°-60°	1396.6	55.4
0°-90°	2112.0	83.8
90°-120°	318.5	12.6
90°-150°	402.8	16.0
90°-180°	407.0	16.2
0°-180°	2519.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	580	580	580	580	580	
5°	582	575	584	577	582	55
15°	556	563	558	563	556	157
25°	506	544	510	543	506	233
35°	438	510	443	511	438	275
45°	360	470	365	470	360	277
55°	271	423	280	425	271	242
65°	180	371	188	375	180	178
75°	90	318	99	324	90	96
85°	17	265	21	272	17	21
90°	1	238	1	248	1	1
95°	1	216	1	227	1	0
105°	1	172	1	182	1	1
115°	1	131	1	142	1	1
125°	1	94	1	105	1	1
135°	1	61	1	72	1	0
145°	1	36	1	43	1	0
155°	1	15	1	20	1	0
165°	1	2	1	4	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8
2.5°	584.7	584.7	584.1	582.9	583.5	585.3	584.1	581.0	579.2	574.3	575.5
5°	582.2	582.2	581.6	580.4	581.0	583.5	582.2	579.8	577.4	573.1	574.9
7.5°	578.0	578.0	577.4	576.1	577.4	579.8	578.6	576.1	574.3	570.0	571.8
10°	571.8	572.5	571.8	570.0	572.5	574.9	574.3	571.2	569.4	565.7	567.6
12.5°	564.5	565.1	564.5	563.9	565.1	568.8	567.6	565.1	563.9	560.8	562.7
15°	555.9	556.6	555.3	555.3	556.6	560.2	560.2	557.8	556.6	553.5	557.2
17.5°	544.9	545.6	544.9	544.9	546.2	549.8	550.4	549.2	548.0	546.8	550.4
20°	533.9	533.3	533.3	532.7	535.2	540.7	540.0	540.0	538.8	538.8	543.1
22.5°	521.1	521.1	520.5	520.5	523.5	528.4	528.4	529.6	528.4	530.9	534.5
25°	506.4	507.0	506.4	507.6	510.1	515.6	516.2	518.0	518.6	521.1	525.4
27.5°	491.1	491.7	491.1	492.3	496.6	500.9	504.0	506.4	507.0	510.7	516.2
30°	474.6	474.6	475.2	476.4	481.3	488.1	490.5	493.6	493.6	499.7	505.2
32.5°	457.5	457.5	457.5	459.9	465.4	473.4	476.4	480.1	481.3	487.4	493.6
35°	438.5	439.1	439.1	441.0	448.3	456.3	460.5	464.8	467.3	474.6	480.7
37.5°	420.8	422.0	420.2	422.6	433.0	439.7	444.6	448.9	453.2	463.0	467.9
40°	400.6	401.8	401.2	406.1	414.7	423.2	428.7	433.0	439.1	448.9	454.4
42.5°	379.2	380.4	381.6	387.1	396.3	404.9	411.6	417.1	424.5	433.0	442.2
45°	359.6	359.6	361.5	368.2	378.0	387.1	395.1	401.2	409.8	418.9	428.1
47.5°	337.6	338.2	340.7	348.6	359.0	370.0	377.4	385.3	394.5	404.3	414.7
50°	317.4	317.4	321.1	329.7	339.4	351.7	359.6	368.8	378.6	390.2	400.6
52.5°	294.2	295.4	300.9	308.9	321.7	332.7	341.9	351.7	363.3	375.5	387.1
55°	270.9	273.4	277.7	288.7	302.1	312.5	323.5	335.8	346.8	360.2	373.7
57.5°	248.3	250.1	256.9	267.9	281.9	294.8	306.4	318.0	331.5	344.9	359.0
60°	225.1	227.5	235.5	246.5	261.8	275.2	288.7	300.9	315.0	329.0	343.7
62.5°	203.1	204.9	214.1	226.9	242.2	256.9	270.3	285.0	300.3	313.8	328.4
65°	179.8	182.9	193.3	204.9	222.6	237.3	252.6	268.5	284.4	299.1	313.1
67.5°	158.4	160.2	171.2	184.7	202.4	219.0	234.9	252.0	268.5	283.8	297.9
70°	133.3	139.4	150.5	164.5	183.5	200.6	217.7	235.5	253.2	269.1	282.6
72.5°	112.5	117.4	129.7	144.9	163.3	183.5	201.2	220.2	237.9	254.4	268.5
75°	90.5	95.4	109.5	126.6	145.6	167.0	185.3	204.9	223.2	239.7	254.4
77.5°	69.1	75.2	90.5	108.3	129.0	151.1	170.0	189.6	208.6	226.3	241.0
80°	49.5	56.3	72.8	93.0	113.1	135.2	156.0	175.5	194.5	212.2	227.5
82.5°	31.8	39.1	56.9	77.1	98.5	120.5	141.9	161.5	180.4	198.2	214.1
85°	17.1	25.1	43.4	63.6	85.0	107.0	128.4	149.2	167.6	184.1	201.2
87.5°	4.9	14.7	32.4	52.6	74.6	94.8	115.6	136.4	154.7	172.5	187.8
90°	0.6	8.6	24.5	43.4	64.8	84.4	105.2	124.8	143.1	160.9	176.1
92.5°	0.6	5.5	19.0	36.1	55.7	75.8	96.6	115.6	132.7	150.5	165.7
95°	0.6	4.3	15.3	30.6	48.9	67.9	87.5	105.8	123.5	140.1	155.3
97.5°	0.6	3.1	12.2	26.3	42.8	60.5	79.5	97.9	115.0	130.9	144.9
100°	0.6	2.4	9.8	22.6	37.3	54.4	71.6	89.3	105.8	121.1	135.8
102.5°	0.6	1.8	8.6	19.0	33.0	48.3	64.8	81.3	97.2	111.9	126.6
105°	0.6	1.8	7.3	16.5	29.4	43.4	58.7	74.6	89.3	103.4	116.8
107.5°	0.6	1.2	6.1	14.1	25.7	39.1	53.2	68.5	82.0	95.4	108.3
110°	0.6	1.2	4.9	12.8	22.6	34.9	48.3	62.4	75.2	88.1	100.3



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.6	1.2	4.3	11.0	19.6	31.2	43.4	56.3	68.5	81.3	92.4
115°	0.6	1.2	3.7	9.8	18.3	26.9	39.1	50.8	63.0	74.6	85.0
117.5°	0.6	1.2	3.1	8.0	15.9	24.5	34.2	45.9	56.9	67.9	77.7
120°	0.6	1.2	2.4	7.3	14.1	22.0	30.6	41.0	51.4	61.8	72.2
122.5°	0.6	0.6	2.4	6.1	12.2	19.6	28.1	36.1	45.9	55.7	64.8
125°	0.6	0.6	2.4	5.5	10.4	17.7	25.1	32.4	41.0	49.5	57.5
127.5°	0.6	0.6	1.8	4.3	9.2	15.3	22.0	30.0	36.1	44.0	52.0
130°	0.6	0.6	1.8	3.7	8.0	12.8	19.6	26.3	33.6	39.1	45.9
132.5°	0.6	0.6	1.8	3.1	6.1	10.4	16.5	22.6	29.4	35.5	41.0
135°	0.6	0.6	1.2	2.4	4.9	8.6	13.5	19.0	25.7	31.8	37.3
137.5°	0.6	0.6	1.2	2.4	3.7	7.3	10.4	15.3	21.4	26.9	32.4
140°	0.6	0.6	1.2	1.8	3.1	5.5	8.6	12.2	17.1	22.0	28.1
142.5°	0.6	0.6	0.6	1.8	2.4	4.3	6.7	9.8	13.5	17.7	22.6
145°	0.6	0.6	0.6	1.8	2.4	3.1	5.5	8.0	10.4	13.5	17.7
147.5°	0.6	0.6	0.6	1.2	1.8	2.4	4.3	6.1	8.0	10.4	12.8
150°	0.6	0.6	0.6	1.2	1.8	2.4	3.1	4.3	6.1	8.6	10.4
152.5°	0.6	0.6	0.6	1.2	1.2	1.8	2.4	3.1	4.3	6.1	7.3
155°	0.6	0.6	0.6	0.6	1.2	1.8	2.4	2.4	3.1	4.3	5.5
157.5°	0.6	0.6	0.6	0.6	1.2	1.2	1.8	1.8	2.4	2.4	3.7
160°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.8	1.8	1.8	1.8
162.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.8	1.8
165°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8
2.5°	575.5	576.1	578.0	578.0	576.7	576.7	576.1	575.5	576.1	577.4	577.4
5°	574.3	574.9	576.7	577.4	576.1	575.5	575.5	574.9	575.5	576.7	576.7
7.5°	571.8	572.5	574.3	574.9	573.7	573.7	573.1	572.5	573.7	574.3	574.3
10°	568.2	568.8	571.2	571.8	571.2	570.6	570.6	570.0	570.6	571.8	571.8
12.5°	563.3	564.5	567.6	567.6	567.6	567.0	567.0	566.3	567.0	568.2	567.6
15°	557.8	560.2	562.7	563.9	563.9	563.9	563.3	562.7	563.9	564.5	563.9
17.5°	551.7	554.7	558.4	559.6	559.6	560.2	559.6	559.0	560.2	560.2	559.6
20°	545.6	548.6	552.3	553.5	554.7	555.3	555.3	554.7	555.3	555.9	555.3
22.5°	537.6	541.3	545.6	547.4	548.6	549.8	549.8	549.8	550.4	551.1	549.8
25°	529.0	533.3	538.2	540.0	542.5	543.1	543.7	543.7	544.3	544.9	543.1
27.5°	519.9	524.8	529.6	532.7	534.5	535.8	535.8	536.4	537.0	537.6	535.8
30°	508.9	516.2	520.5	522.9	525.4	527.2	527.8	528.4	529.0	529.6	527.8
32.5°	499.1	505.2	510.7	513.7	516.8	519.3	519.9	519.9	521.1	521.1	519.3
35°	487.4	494.8	500.3	503.3	507.0	508.9	510.1	510.1	511.3	511.3	509.5
37.5°	475.8	483.2	489.3	493.0	497.2	499.7	500.3	500.3	501.5	501.5	499.1
40°	463.6	471.5	478.3	482.6	486.2	489.3	489.9	491.7	491.7	491.1	488.7
42.5°	451.4	458.7	466.0	470.9	475.8	478.9	480.1	480.7	480.7	480.1	478.3
45°	437.9	446.5	453.2	459.3	464.2	467.3	469.1	469.7	469.7	468.5	466.7
47.5°	425.1	433.6	440.4	447.1	452.0	455.6	457.5	458.1	457.5	456.9	455.0
50°	411.6	421.4	428.1	434.8	439.7	442.8	445.9	446.5	445.9	445.2	441.6
52.5°	397.5	407.9	415.3	422.0	427.5	431.2	433.6	434.2	434.2	433.0	430.6
55°	383.5	392.6	401.8	409.2	415.3	418.9	422.0	423.2	422.0	420.8	417.7
57.5°	370.6	379.2	388.4	396.3	402.4	407.3	409.8	411.0	409.8	407.9	404.9
60°	355.3	364.5	374.9	382.3	389.0	393.9	395.1	397.5	396.3	394.5	391.4
62.5°	340.7	351.7	360.8	370.0	375.5	381.0	383.5	384.7	383.5	381.6	378.6
65°	325.4	337.6	346.8	356.0	362.1	367.6	370.6	371.2	370.0	368.2	365.1
67.5°	311.3	322.9	332.7	342.5	348.0	353.5	356.6	357.8	356.6	354.1	351.1
70°	297.2	308.9	320.5	327.8	334.5	340.7	342.5	344.3	343.1	340.7	337.0
72.5°	283.2	295.4	307.0	314.4	321.7	327.2	329.7	331.5	330.3	327.8	323.5
75°	268.5	281.3	293.0	300.9	308.2	313.8	316.2	318.0	316.8	314.4	309.5
77.5°	255.0	267.9	278.9	287.5	294.8	299.7	304.0	304.6	303.4	300.9	296.0
80°	241.0	253.8	265.4	274.0	281.3	286.2	289.3	291.1	289.9	287.5	282.6
82.5°	228.7	240.4	252.0	260.5	267.9	274.0	276.4	278.3	277.7	274.0	270.3
85°	215.3	228.7	237.9	247.1	254.4	260.5	262.4	264.8	264.2	261.2	256.3
87.5°	201.8	215.3	226.3	235.5	242.2	247.1	250.1	251.4	250.8	247.7	242.2
90°	190.8	203.1	214.1	223.8	229.4	234.9	237.9	238.5	238.5	234.9	230.6
92.5°	180.4	192.0	203.1	212.2	219.0	223.8	226.3	227.5	226.9	223.8	219.0
95°	168.8	181.6	192.0	201.2	207.9	212.8	215.3	216.5	215.9	212.8	207.9
97.5°	159.0	170.6	181.0	189.6	196.3	201.2	203.7	204.9	204.9	201.8	196.9
100°	149.2	160.9	170.6	179.2	185.3	190.2	192.7	193.3	192.7	190.2	185.3
102.5°	139.4	150.5	160.2	168.2	174.9	179.2	181.6	182.3	182.3	179.2	174.3
105°	129.7	140.7	149.8	158.4	163.9	168.2	170.0	171.9	171.2	168.8	163.9
107.5°	120.5	131.5	140.1	148.0	153.5	157.8	159.6	161.5	160.9	158.4	153.5
110°	111.9	122.3	130.3	138.2	143.1	147.4	150.5	151.1	149.8	147.4	143.1



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	104.0	113.1	121.1	128.4	133.9	137.0	139.4	140.7	139.4	137.0	133.9
115°	95.4	104.6	112.5	119.3	124.2	127.8	129.7	130.9	129.7	127.2	124.2
117.5°	87.5	96.0	104.0	110.7	115.0	118.0	119.9	121.1	119.9	118.0	115.0
120°	80.7	88.1	95.4	101.5	106.4	108.9	110.7	111.9	111.3	108.9	105.8
122.5°	72.8	80.7	87.5	93.6	97.9	100.3	101.5	102.7	102.1	100.3	97.2
125°	66.1	72.8	79.5	85.0	89.3	91.7	93.0	94.2	93.6	91.7	88.1
127.5°	58.7	66.1	71.6	77.1	80.1	83.8	84.4	85.6	85.0	83.2	80.1
130°	53.2	58.7	64.2	69.1	72.8	75.2	76.5	77.1	75.8	74.6	71.6
132.5°	46.5	52.6	57.5	61.8	64.2	66.7	67.9	68.5	68.5	66.7	64.2
135°	41.6	45.9	50.2	54.4	56.9	59.3	60.5	61.2	60.5	59.3	56.9
137.5°	37.3	41.0	44.0	47.7	50.8	52.0	53.2	53.2	52.6	52.0	50.2
140°	32.4	36.7	39.8	42.2	44.6	45.3	46.5	46.5	45.9	45.3	44.0
142.5°	27.5	31.2	34.2	37.3	39.1	40.4	41.0	41.6	41.0	40.4	38.5
145°	22.0	26.3	29.4	31.2	33.6	34.2	34.9	35.5	34.9	34.2	32.4
147.5°	17.1	20.8	23.9	26.3	28.1	28.7	29.4	30.0	29.4	28.1	27.5
150°	12.2	15.3	19.0	21.4	22.6	23.9	23.9	23.9	24.5	23.2	22.0
152.5°	9.8	11.0	13.5	15.9	17.7	18.3	19.0	19.0	18.3	18.3	17.1
155°	6.7	8.0	9.8	11.6	13.5	14.1	14.7	14.7	14.1	14.1	13.5
157.5°	4.3	5.5	6.7	8.0	9.8	10.4	11.0	11.0	11.0	10.4	9.8
160°	2.4	3.1	3.7	4.9	6.1	6.7	7.3	7.3	7.3	7.3	6.7
162.5°	1.8	1.8	1.8	2.4	3.1	3.7	4.3	4.3	4.3	4.3	3.7
165°	1.2	1.2	1.2	1.2	1.2	1.8	2.4	2.4	2.4	2.4	2.4
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8
2.5°	576.7	576.7	577.4	576.1	572.5	573.1	573.1	575.5	576.7	577.4	580.4
5°	575.5	575.5	576.7	574.9	571.8	571.8	571.8	574.3	574.9	576.1	578.6
7.5°	573.7	573.7	574.3	572.5	568.8	568.8	568.2	570.6	571.8	572.5	574.9
10°	570.6	570.6	571.2	569.4	565.1	565.1	564.5	566.3	567.0	568.2	570.0
12.5°	566.3	566.3	566.3	564.5	560.2	559.6	559.0	560.8	560.8	561.5	563.3
15°	562.7	561.5	561.5	559.6	555.3	554.1	552.9	553.5	554.7	554.1	555.3
17.5°	558.4	557.2	555.9	554.1	548.6	546.8	545.6	546.2	545.6	544.9	546.2
20°	553.5	551.7	551.1	548.0	542.5	539.4	537.0	535.8	536.4	534.5	535.2
22.5°	548.0	545.6	544.3	540.7	535.2	531.5	528.4	526.0	525.4	522.9	523.5
25°	541.3	538.2	536.4	533.3	527.2	522.9	519.3	515.6	513.7	510.7	510.1
27.5°	533.3	530.3	527.8	524.8	518.6	513.1	508.9	504.0	501.5	497.8	496.0
30°	525.4	521.7	518.0	515.6	508.9	502.7	496.0	491.7	488.1	483.8	480.7
32.5°	515.6	511.9	508.2	504.6	498.5	491.1	485.6	478.9	474.6	469.7	466.0
35°	505.8	500.9	497.2	492.3	486.8	478.3	471.5	464.8	459.3	453.8	449.5
37.5°	494.8	491.1	485.6	481.3	474.6	466.0	458.7	450.1	445.2	437.9	432.4
40°	484.4	480.1	474.6	469.1	462.4	452.6	444.6	434.8	429.3	420.8	415.3
42.5°	474.0	467.9	462.4	456.3	448.9	439.7	430.0	420.2	412.8	404.9	396.9
45°	462.4	455.6	448.9	442.2	434.8	425.7	415.3	404.9	395.7	388.4	378.6
47.5°	450.1	443.4	435.5	428.1	420.2	411.0	400.0	389.0	379.2	370.6	360.2
50°	437.9	431.2	422.6	414.7	405.5	396.3	384.7	371.9	361.5	350.4	341.3
52.5°	425.1	418.3	410.4	400.0	390.2	381.0	368.8	355.3	343.7	334.5	322.9
55°	412.2	405.5	396.3	385.9	376.1	364.5	352.9	339.4	326.6	315.6	304.0
57.5°	398.8	392.6	382.3	373.7	361.5	349.2	337.0	324.1	310.1	297.2	283.8
60°	385.3	378.6	368.8	358.4	346.2	333.9	321.1	307.0	292.3	278.3	266.0
62.5°	373.1	364.5	355.3	344.3	331.5	319.9	305.2	289.9	275.2	260.5	245.9
65°	359.0	349.8	341.3	330.3	316.8	303.4	288.7	273.4	257.5	241.6	226.9
67.5°	344.9	335.8	326.6	315.6	301.5	287.5	272.2	256.9	239.1	223.8	206.7
70°	330.9	323.5	311.9	300.3	287.5	272.2	256.9	240.4	222.0	205.5	187.8
72.5°	316.8	309.5	297.9	285.6	273.4	257.5	241.0	224.5	207.3	188.4	169.4
75°	303.4	294.2	283.8	272.2	259.3	242.8	226.3	209.2	189.0	171.2	151.7
77.5°	290.5	281.9	271.6	258.7	244.6	228.7	211.6	193.9	173.7	154.7	133.3
80°	276.4	267.9	257.5	244.6	230.6	215.3	196.9	178.6	159.0	138.2	116.2
82.5°	263.0	255.0	243.4	231.8	216.5	201.2	182.9	164.5	143.7	123.5	102.1
85°	248.9	241.0	230.0	217.7	203.1	186.5	169.4	151.1	130.3	109.5	88.1
87.5°	236.7	227.5	216.5	204.3	189.6	173.7	157.2	137.6	117.4	97.2	75.2
90°	223.8	215.3	204.3	192.0	177.4	161.5	144.3	126.0	106.4	85.6	64.8
92.5°	212.8	203.7	193.3	181.0	166.4	151.1	133.9	115.6	96.6	76.5	56.3
95°	201.8	192.7	182.9	170.6	156.0	140.7	123.5	105.8	87.5	67.9	48.9
97.5°	189.6	181.6	171.9	160.2	145.6	130.9	114.4	97.2	79.5	60.5	42.8
100°	179.8	170.6	161.5	149.2	135.8	121.7	105.2	88.7	71.6	53.8	37.3
102.5°	168.8	160.2	151.1	139.4	126.0	111.9	96.6	80.7	64.8	48.3	32.4
105°	158.4	150.5	140.7	129.7	116.8	103.4	88.7	74.0	58.7	42.8	28.7
107.5°	148.0	140.1	130.9	120.5	108.3	94.8	81.3	66.7	52.6	38.5	25.7
110°	137.6	130.3	121.7	111.3	99.7	87.5	74.6	61.2	47.1	34.2	22.6



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	128.4	121.1	112.5	102.7	91.7	80.1	67.9	55.0	42.2	30.6	19.6
115°	119.3	112.5	104.0	95.4	84.4	73.4	61.8	49.5	37.9	27.5	17.1
117.5°	110.1	103.4	95.4	86.8	77.1	66.7	55.7	44.0	34.2	24.5	15.3
120°	100.9	94.8	87.5	79.5	70.9	60.5	49.5	39.8	30.6	21.4	13.5
122.5°	92.4	86.8	80.1	72.8	63.6	53.8	44.6	36.1	27.5	19.0	11.0
125°	84.4	78.9	72.8	65.4	56.9	48.3	40.4	32.4	23.9	16.5	9.2
127.5°	76.5	70.9	64.8	58.1	51.4	43.4	36.1	28.7	21.4	14.7	8.0
130°	68.5	63.6	58.1	52.6	45.9	38.5	32.4	25.1	18.3	11.6	6.7
132.5°	60.5	56.9	52.0	46.5	40.4	34.9	28.1	22.0	15.9	10.4	6.1
135°	53.8	50.2	45.9	41.0	36.1	30.6	24.5	19.0	13.5	8.6	4.9
137.5°	47.7	44.6	40.4	36.1	31.8	26.3	21.4	15.9	11.0	7.3	3.7
140°	42.2	39.1	35.5	31.2	27.5	22.6	17.7	12.8	9.8	6.1	3.1
142.5°	36.7	33.6	30.6	26.9	23.2	19.0	14.7	11.0	8.0	4.9	3.1
145°	31.2	28.7	25.7	22.6	19.0	15.3	12.2	9.2	6.1	3.7	2.4
147.5°	25.7	23.9	20.8	18.3	15.3	12.2	9.8	7.3	4.9	3.1	1.8
150°	20.8	19.0	16.5	14.1	12.2	9.8	8.0	5.5	3.7	3.1	1.8
152.5°	15.9	14.7	12.8	11.6	9.8	7.3	5.5	4.3	3.1	2.4	1.2
155°	12.8	11.6	10.4	8.6	7.3	5.5	4.3	3.1	2.4	1.8	1.2
157.5°	9.2	8.6	7.3	6.1	4.9	3.7	3.1	3.1	1.8	1.2	0.6
160°	6.1	5.5	4.9	3.7	3.1	3.1	2.4	1.8	1.2	1.2	0.6
162.5°	3.7	3.1	3.1	3.1	2.4	2.4	1.8	1.2	1.2	0.6	0.6
165°	2.4	2.4	2.4	1.8	1.8	1.8	1.2	0.6	0.6	0.6	0.6
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-LD5-27SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8
2.5°	580.4	578.6	581.0	585.3	585.9	585.3	584.1	585.9	588.4	587.8	583.5
5°	579.2	576.7	579.2	583.5	583.5	582.9	582.2	584.1	586.5	585.9	582.2
7.5°	575.5	573.1	575.5	579.2	579.8	578.6	578.6	580.4	582.9	582.2	579.2
10°	570.6	568.2	569.4	573.7	574.9	573.7	573.7	575.5	578.6	578.0	574.3
12.5°	563.3	561.5	562.7	566.3	567.6	567.0	566.3	568.8	571.8	571.8	568.2
15°	555.3	552.9	554.1	558.4	559.0	557.8	558.4	560.2	563.9	563.9	560.8
17.5°	546.2	543.1	544.9	548.0	548.6	548.6	548.6	551.1	555.3	554.7	552.3
20°	535.8	531.5	532.7	535.8	537.0	537.0	537.0	541.3	544.3	544.3	541.9
22.5°	523.5	520.5	520.5	523.5	525.4	524.8	524.8	528.4	532.7	532.1	532.1
25°	509.5	507.0	505.8	509.5	510.1	510.7	511.9	515.6	520.5	520.5	521.1
27.5°	494.8	492.3	491.7	494.8	495.4	496.0	497.2	501.5	506.4	507.0	508.2
30°	480.7	477.1	475.8	478.3	479.5	480.1	480.1	486.8	491.1	493.0	495.4
32.5°	464.2	460.5	457.5	461.8	462.4	463.6	464.2	470.9	475.8	478.9	482.6
35°	447.7	441.6	440.4	443.4	444.6	445.2	446.5	453.8	460.5	463.0	467.9
37.5°	429.3	425.1	421.4	424.5	425.7	426.3	430.0	436.7	443.4	447.1	452.0
40°	412.2	406.7	403.7	405.5	406.7	407.3	411.6	418.9	426.9	431.2	437.3
42.5°	393.3	385.9	383.5	385.3	385.9	387.8	391.4	401.2	409.2	415.3	420.2
45°	374.3	368.8	363.3	365.1	365.7	367.0	372.5	382.9	391.4	398.8	404.3
47.5°	354.7	348.0	342.5	343.7	346.2	346.8	352.9	365.1	373.1	381.0	388.4
50°	335.2	326.0	321.7	321.7	322.9	326.0	333.9	346.2	354.7	363.9	371.9
52.5°	315.0	306.4	301.5	302.1	303.4	307.0	314.4	326.6	336.4	346.2	356.0
55°	294.8	285.6	280.7	279.5	280.7	285.6	294.2	307.0	316.8	328.4	338.8
57.5°	274.6	263.6	259.3	257.5	258.7	264.8	273.4	286.8	299.1	310.1	322.3
60°	252.6	244.0	236.7	232.4	235.5	243.4	252.6	266.7	279.5	291.7	305.2
62.5°	233.6	222.6	214.7	210.4	213.4	220.2	233.0	246.5	260.5	274.6	288.1
65°	212.2	201.2	192.0	187.8	190.8	198.8	211.6	226.3	241.6	255.7	271.6
67.5°	191.4	179.8	168.8	164.5	168.2	176.8	190.8	207.3	223.8	238.5	255.7
70°	171.2	158.4	146.8	143.7	146.2	157.8	171.2	187.8	204.9	222.0	239.7
72.5°	152.9	137.0	124.8	121.1	124.2	137.0	152.3	169.4	187.8	206.1	225.1
75°	131.5	116.8	103.4	99.1	102.7	114.4	133.3	151.7	171.2	190.8	208.6
77.5°	114.4	97.2	83.2	76.5	82.6	97.2	115.6	135.2	155.3	175.5	195.7
80°	96.6	78.9	63.6	56.3	63.0	78.9	97.2	118.7	141.3	161.5	179.8
82.5°	80.7	61.8	45.9	37.9	45.3	63.0	83.2	104.6	126.6	146.8	168.2
85°	66.1	46.5	30.0	21.4	31.8	47.7	69.1	91.1	113.8	134.6	155.3
87.5°	53.8	34.9	18.3	9.2	19.6	37.3	57.5	79.5	102.1	122.9	142.5
90°	44.0	25.1	9.8	1.2	11.6	28.1	47.7	69.1	90.5	111.9	131.5
92.5°	36.1	19.0	5.5	0.6	7.3	22.6	41.0	61.2	82.0	102.7	121.7
95°	30.0	14.7	3.7	0.6	5.5	17.7	34.9	54.4	74.0	94.2	113.1
97.5°	25.7	12.2	3.1	0.6	4.3	15.3	30.0	48.3	67.3	86.2	104.6
100°	22.0	9.8	2.4	0.6	3.7	12.8	26.3	42.8	60.5	78.9	96.6
102.5°	19.0	8.0	1.8	0.6	3.1	11.0	23.2	38.5	54.4	72.2	89.3
105°	16.5	6.7	1.8	0.6	2.4	9.8	20.8	34.2	50.2	66.1	82.6
107.5°	14.1	5.5	1.2	0.6	1.8	8.0	18.3	31.2	45.3	60.5	75.8
110°	12.2	4.9	1.2	0.6	1.8	7.3	15.9	28.1	41.0	55.0	69.7



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	10.4	3.7	1.2	0.6	1.2	6.1	14.1	25.1	37.3	50.2	64.2
115°	9.2	3.1	0.6	0.6	1.2	5.5	12.8	22.6	33.6	45.9	58.7
117.5°	7.3	2.4	0.6	0.6	0.6	4.3	11.0	20.2	30.6	42.2	53.8
120°	6.1	2.4	0.6	0.6	0.6	3.7	9.8	17.7	27.5	37.9	48.9
122.5°	5.5	1.8	0.6	0.6	0.6	3.1	8.6	15.9	24.5	34.2	44.6
125°	4.9	1.8	0.6	0.6	0.6	2.4	7.3	14.1	22.0	30.6	40.4
127.5°	3.7	1.8	0.6	0.6	0.6	1.8	6.7	12.2	19.6	27.5	36.1
130°	3.1	1.2	0.6	0.6	0.6	1.8	5.5	11.0	17.1	24.5	32.4
132.5°	2.4	1.2	0.6	0.6	0.6	1.2	4.3	8.6	14.7	21.4	28.7
135°	2.4	1.2	0.6	0.6	0.6	1.2	3.1	7.3	12.2	18.3	24.5
137.5°	2.4	0.6	0.6	0.6	0.6	1.2	2.4	5.5	9.8	14.7	20.2
140°	1.8	0.6	0.6	0.6	0.6	0.6	1.8	4.3	8.0	12.2	17.1
142.5°	1.8	0.6	0.6	0.6	0.6	0.6	1.8	3.1	6.1	9.8	13.5
145°	1.2	0.6	0.6	0.6	0.6	0.6	1.2	2.4	4.9	7.3	11.0
147.5°	1.2	0.6	0.6	0.6	0.6	0.6	1.2	1.8	3.7	6.1	8.6
150°	1.2	0.6	0.6	0.6	0.6	0.6	1.2	1.8	2.4	4.3	6.7
152.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.8	3.1	4.3
155°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.8	2.4	3.1
157.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.8	2.4
160°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.8
162.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2
165°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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-LD5-27SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8
2.5°	581.6	577.4	578.6	578.0	579.2	581.0	581.0	580.4	580.4	579.2	578.0
5°	580.4	576.1	578.0	577.4	578.6	580.4	580.4	579.8	579.8	578.0	577.4
7.5°	576.7	573.7	574.9	574.9	576.1	578.0	578.0	577.4	577.4	575.5	574.9
10°	573.1	569.4	571.2	571.2	572.5	574.9	574.9	574.3	574.3	572.5	571.8
12.5°	567.0	563.3	566.3	567.0	568.2	570.6	570.0	570.0	570.0	568.2	567.6
15°	559.6	557.2	560.2	560.8	562.7	565.7	565.7	565.7	565.7	563.9	563.3
17.5°	551.7	549.8	552.9	554.1	556.6	559.6	559.6	560.2	560.8	559.6	559.0
20°	542.5	541.3	544.3	546.8	550.4	553.5	554.7	555.3	556.6	555.3	554.7
22.5°	532.1	532.1	536.4	538.8	543.1	546.2	548.0	549.8	551.1	549.8	549.2
25°	520.5	522.3	526.6	530.9	535.8	538.8	540.7	543.1	544.3	543.7	543.1
27.5°	509.5	511.9	517.4	521.7	526.0	530.9	532.7	535.8	537.0	537.0	536.4
30°	496.6	500.3	506.4	511.3	516.8	521.7	524.1	527.2	529.0	527.8	528.4
32.5°	484.4	490.5	495.4	500.9	507.0	511.9	515.0	518.6	520.5	519.9	520.5
35°	470.9	477.1	483.8	489.3	496.6	501.5	505.8	508.9	511.3	510.7	510.7
37.5°	456.3	464.2	470.9	478.3	485.0	490.5	494.8	498.5	500.9	500.9	500.9
40°	442.2	450.8	457.5	466.0	474.6	479.5	484.4	488.1	490.5	491.1	491.7
42.5°	426.9	436.1	444.0	453.2	461.8	467.9	473.4	477.7	480.1	481.3	480.7
45°	412.8	421.4	430.6	441.0	448.9	455.0	461.8	466.7	469.1	469.7	470.3
47.5°	396.9	406.7	417.1	427.5	435.5	443.4	449.5	454.4	456.9	458.7	458.7
50°	381.6	392.0	403.7	414.7	423.2	431.2	437.3	442.8	445.9	447.1	447.7
52.5°	367.6	377.4	389.6	400.6	409.2	417.1	425.1	431.2	434.2	435.5	435.5
55°	350.4	362.7	376.1	386.5	395.7	404.9	412.8	418.9	422.0	423.8	425.1
57.5°	334.5	347.4	361.5	372.5	383.5	392.0	399.4	407.3	409.8	412.2	412.8
60°	319.3	332.1	345.6	357.8	368.8	378.0	386.5	393.3	397.5	398.8	400.0
62.5°	303.4	316.8	330.9	343.1	354.7	365.7	373.7	379.8	384.7	386.5	387.8
65°	288.1	302.1	316.2	329.0	341.3	352.3	360.2	366.4	371.2	374.3	374.9
67.5°	271.6	286.8	301.5	315.0	327.2	338.8	346.8	352.9	357.8	361.5	362.1
70°	256.3	272.2	286.8	301.5	313.8	325.4	333.9	340.1	345.6	348.0	349.2
72.5°	241.6	258.1	273.4	288.1	300.3	311.9	321.1	327.2	332.7	335.8	336.4
75°	227.5	244.0	260.5	274.6	287.5	299.1	308.2	315.0	319.9	322.9	324.1
77.5°	213.4	230.6	247.1	261.2	274.6	286.2	294.2	302.1	307.0	310.7	310.7
80°	199.4	217.1	234.2	248.3	261.8	272.2	281.3	289.3	294.2	297.9	297.9
82.5°	187.2	204.3	220.8	234.9	248.3	259.9	269.1	276.4	281.9	284.4	285.0
85°	173.1	192.0	207.3	222.6	235.5	246.5	255.7	263.6	268.5	270.9	272.2
87.5°	161.5	179.8	196.3	209.8	222.6	233.6	244.0	250.8	255.7	258.7	259.9
90°	150.5	168.2	184.7	198.2	211.6	222.0	231.8	238.5	244.0	246.5	247.7
92.5°	140.7	158.4	174.3	187.8	200.6	212.2	221.4	228.1	233.0	235.5	237.3
95°	131.5	148.6	163.9	178.6	190.8	201.2	211.0	217.7	223.2	225.1	226.9
97.5°	122.3	138.8	154.1	168.2	181.0	190.8	200.0	206.7	211.0	214.1	215.9
100°	114.4	130.3	144.9	158.4	170.6	179.8	189.6	195.7	200.0	202.4	204.9
102.5°	105.8	121.7	135.8	148.6	161.5	170.0	179.2	185.3	189.0	193.3	193.3
105°	98.5	113.1	127.2	139.4	150.5	160.9	168.8	174.9	179.2	182.3	182.3
107.5°	90.5	105.2	118.7	131.5	141.9	151.7	159.0	164.5	169.4	171.2	173.1
110°	84.4	97.2	110.7	122.9	132.7	141.9	149.2	155.3	159.6	161.5	162.7



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	77.1	90.5	102.7	114.4	124.2	132.7	140.1	144.9	149.2	151.7	152.3
115°	70.9	83.8	94.8	105.8	116.2	123.5	130.3	135.2	139.4	141.3	142.5
117.5°	65.4	77.1	88.1	97.2	107.0	115.0	121.7	126.0	129.7	132.1	133.3
120°	59.9	70.9	80.7	89.9	99.1	106.4	112.5	116.8	121.1	122.9	122.9
122.5°	54.4	64.8	74.0	82.6	91.1	97.9	104.6	108.3	111.9	113.8	113.8
125°	49.5	59.3	67.9	75.8	83.8	89.9	95.4	99.7	103.4	104.6	104.6
127.5°	44.6	53.8	61.8	69.1	75.8	82.0	87.5	91.7	94.8	96.0	96.0
130°	40.4	48.3	55.7	63.0	69.7	74.6	80.1	83.8	85.6	87.5	88.1
132.5°	36.1	43.4	50.2	56.3	63.0	67.9	72.2	75.8	77.7	79.5	80.1
135°	31.8	38.5	44.6	50.8	56.3	61.2	64.8	67.9	70.3	71.6	72.2
137.5°	26.9	34.2	39.8	44.6	50.8	54.4	58.7	60.5	63.0	64.2	64.2
140°	22.6	28.1	34.2	39.1	44.0	47.7	51.4	54.4	56.3	56.9	56.9
142.5°	18.3	23.2	28.1	34.2	38.5	41.6	45.3	47.7	48.9	49.5	50.2
145°	14.7	18.3	22.6	28.1	33.0	36.7	38.5	41.0	42.2	42.8	43.4
147.5°	11.0	14.7	18.3	22.0	26.9	30.6	32.4	34.9	36.1	36.7	36.7
150°	8.6	11.0	13.5	17.1	20.8	25.1	27.5	29.4	30.0	30.6	30.6
152.5°	6.1	8.6	10.4	12.8	15.3	19.0	22.6	23.9	24.5	25.1	25.1
155°	4.3	6.1	7.3	9.2	11.0	14.1	17.1	19.0	19.6	20.2	20.2
157.5°	3.1	4.3	4.9	6.7	8.0	9.2	11.6	14.7	15.3	15.3	15.3
160°	1.8	2.4	3.1	4.3	4.9	6.1	7.3	9.2	11.0	11.0	11.0
162.5°	1.2	1.8	1.8	2.4	2.4	3.7	4.3	4.9	6.7	7.3	7.3
165°	0.6	1.2	1.2	1.2	1.2	1.2	1.8	1.8	3.1	3.7	3.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8
2.5°	578.6	579.8	579.2	579.2	579.2	580.4	579.2	573.7	574.9	576.1	577.4
5°	578.0	578.6	578.6	578.0	578.0	579.2	578.0	572.5	573.7	574.9	575.5
7.5°	575.5	576.1	576.1	576.1	575.5	576.7	574.9	570.0	570.0	571.2	571.8
10°	572.5	573.7	573.1	572.5	572.5	572.5	571.2	565.7	565.7	566.3	567.0
12.5°	568.8	568.8	568.8	568.2	567.6	567.6	566.3	560.8	560.2	561.5	560.8
15°	563.9	565.1	563.9	563.3	562.1	562.1	560.2	554.7	553.5	554.1	553.5
17.5°	559.6	560.2	559.0	557.8	556.6	555.9	554.1	548.0	546.2	546.8	545.6
20°	555.3	555.3	554.1	552.9	551.1	549.2	546.8	540.7	537.6	537.6	535.2
22.5°	549.8	549.8	548.6	546.8	544.9	542.5	540.0	533.9	529.0	527.8	526.0
25°	543.7	543.1	542.5	540.7	537.0	534.5	532.1	525.4	519.9	517.4	514.4
27.5°	536.4	536.4	534.5	532.7	529.0	526.0	522.9	516.8	509.5	506.4	502.1
30°	528.4	528.4	526.6	524.1	520.5	516.8	513.1	505.8	498.5	494.2	489.3
32.5°	520.5	519.9	518.0	515.6	511.9	506.4	503.3	496.0	487.4	482.6	475.8
35°	510.7	510.1	508.2	505.2	500.3	496.0	491.1	484.4	474.6	468.5	461.1
37.5°	500.9	500.3	499.1	494.8	489.9	485.0	478.9	472.2	463.0	455.0	447.7
40°	491.1	490.5	488.1	485.0	478.9	472.8	466.7	459.9	450.1	441.0	433.0
42.5°	480.7	480.1	477.1	473.4	466.7	460.5	453.2	445.9	436.1	425.1	417.1
45°	470.3	469.1	466.0	461.8	454.4	447.7	440.4	431.8	422.0	411.6	401.2
47.5°	459.3	457.5	454.4	448.3	442.2	434.8	426.3	417.1	407.3	395.7	384.7
50°	447.1	445.9	442.2	436.7	429.3	422.0	412.2	403.0	391.4	380.4	367.0
52.5°	435.5	433.0	430.0	423.8	416.5	408.6	398.2	387.1	375.5	365.1	351.1
55°	423.2	422.0	417.7	412.8	403.7	394.5	384.7	373.1	360.2	348.0	334.5
57.5°	411.6	409.2	405.5	398.8	390.8	381.6	371.2	359.0	344.9	332.1	317.4
60°	400.0	396.3	392.0	385.9	377.4	367.6	356.6	343.7	329.7	315.6	300.3
62.5°	387.1	384.1	379.2	373.1	364.5	354.1	342.5	329.0	315.6	300.9	284.4
65°	374.3	371.2	366.4	360.2	351.7	340.1	327.8	314.4	299.1	285.0	267.3
67.5°	361.5	358.4	352.9	346.2	337.6	326.6	313.8	299.7	284.4	269.1	250.8
70°	348.6	344.9	340.1	332.7	324.1	312.5	299.7	285.0	269.7	253.2	234.9
72.5°	335.8	332.7	326.6	319.9	310.7	299.1	286.2	271.6	255.7	238.5	220.2
75°	322.9	319.3	315.0	307.0	297.2	286.2	272.8	258.1	241.0	224.5	205.5
77.5°	310.1	307.0	301.5	293.6	284.4	272.8	259.3	244.6	227.5	210.4	190.2
80°	297.2	293.6	289.3	281.9	271.6	259.9	245.9	231.2	214.1	196.3	176.1
82.5°	284.4	280.7	275.8	268.5	258.7	247.1	233.6	217.7	200.6	182.3	163.3
85°	271.6	268.5	263.0	255.7	245.3	233.6	220.2	206.1	187.8	169.4	150.5
87.5°	258.7	255.7	250.1	242.8	233.0	221.4	207.9	193.3	175.5	158.4	137.6
90°	246.5	244.0	238.5	231.2	221.4	209.8	197.5	181.6	164.5	147.4	127.8
92.5°	235.5	233.0	228.1	220.8	212.2	199.4	187.2	171.9	154.7	137.0	118.0
95°	225.7	222.6	217.7	211.0	200.6	189.6	177.4	162.1	145.6	127.8	109.5
97.5°	214.7	211.6	206.7	199.4	190.8	179.2	167.0	152.3	135.8	119.3	100.9
100°	203.7	200.6	195.1	189.0	180.4	168.8	157.2	142.5	127.2	111.3	93.6
102.5°	192.7	189.6	184.7	178.6	170.0	159.6	148.0	133.9	118.7	102.7	86.2
105°	182.3	179.2	174.3	168.2	160.2	149.8	137.6	125.4	110.7	95.4	79.5
107.5°	171.9	168.8	164.5	158.4	150.5	140.7	129.0	116.2	102.7	88.1	72.8
110°	161.5	159.0	154.1	148.6	140.7	130.9	120.5	108.3	94.8	81.3	66.7



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	151.7	149.2	144.3	138.2	131.5	122.3	111.9	100.3	87.5	74.6	60.5
115°	141.9	138.8	134.6	129.0	122.3	113.8	104.0	93.6	80.7	68.5	55.7
117.5°	132.1	129.7	125.4	119.9	113.8	105.2	96.0	86.2	74.0	62.4	50.8
120°	122.3	120.5	116.2	111.3	105.2	97.2	88.7	78.9	67.9	56.9	45.9
122.5°	113.1	111.3	107.0	102.7	96.6	89.3	81.3	72.2	62.4	52.0	42.2
125°	104.6	102.1	98.5	94.2	88.7	82.0	74.0	65.4	56.3	47.1	37.9
127.5°	95.4	93.6	91.1	86.2	80.7	74.6	67.3	59.9	51.4	42.8	34.2
130°	88.1	85.6	82.6	78.9	74.0	67.9	61.2	53.8	46.5	38.5	30.0
132.5°	79.5	77.1	74.6	70.9	66.7	61.2	55.0	48.3	41.6	34.2	26.9
135°	71.6	69.7	67.3	63.6	59.3	55.0	48.9	42.8	36.7	30.0	23.9
137.5°	64.2	62.4	59.9	57.5	53.2	48.9	43.4	37.9	32.4	26.3	20.8
140°	56.9	55.7	53.2	50.8	47.1	42.8	37.9	33.0	28.1	22.6	17.7
142.5°	49.5	48.3	46.5	44.0	41.0	37.3	33.0	28.7	23.9	19.6	15.3
145°	42.8	42.2	40.4	37.9	35.5	31.8	28.1	24.5	20.2	16.5	12.2
147.5°	36.1	35.5	34.2	32.4	30.0	26.9	23.9	20.2	17.1	13.5	9.8
150°	30.0	29.4	28.7	26.3	25.1	22.0	19.6	16.5	14.1	10.4	8.0
152.5°	24.5	24.5	23.2	21.4	20.2	17.7	15.9	13.5	11.0	8.6	6.1
155°	19.6	19.0	18.3	17.1	15.9	14.1	12.2	10.4	8.6	6.1	4.3
157.5°	15.3	14.7	14.1	12.8	11.6	11.0	9.2	7.3	5.5	4.3	3.1
160°	11.0	10.4	9.8	9.2	8.6	7.3	6.1	4.9	3.7	2.4	1.8
162.5°	7.3	6.7	6.7	6.1	5.5	4.3	3.7	3.1	2.4	1.8	1.2
165°	3.7	3.7	3.1	3.1	2.4	1.8	1.8	1.8	1.2	1.2	0.6
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-LD5-27SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	579.8	579.8	579.8	579.8	579.8	579.8	579.8
2.5°	576.7	576.7	579.2	578.6	576.7	580.4	584.7
5°	574.9	574.9	576.7	576.7	574.9	578.6	582.2
7.5°	571.8	571.2	573.1	573.1	570.6	573.7	578.0
10°	566.3	565.7	567.6	567.6	565.1	568.2	571.8
12.5°	560.2	559.0	560.8	560.2	557.8	560.8	564.5
15°	552.3	551.7	552.9	551.7	549.2	552.3	555.9
17.5°	544.3	542.5	543.1	543.1	538.8	541.9	544.9
20°	533.9	531.5	532.1	531.5	528.4	530.3	533.9
22.5°	523.5	519.9	519.9	519.3	515.6	518.0	521.1
25°	510.7	506.4	506.4	505.8	501.5	503.3	506.4
27.5°	497.8	493.6	491.7	491.1	486.8	486.8	491.1
30°	484.4	478.3	477.1	475.2	470.9	470.9	474.6
32.5°	471.5	463.0	460.5	458.1	453.8	453.2	457.5
35°	454.4	447.7	443.4	441.0	436.1	434.8	438.5
37.5°	440.4	431.8	425.7	422.6	417.7	415.9	420.8
40°	425.1	415.9	407.9	406.1	398.8	396.3	400.6
42.5°	407.9	398.2	390.2	386.5	381.0	378.6	379.2
45°	390.8	380.4	371.9	367.0	361.5	357.2	359.6
47.5°	373.1	363.9	353.5	346.2	339.4	336.4	337.6
50°	355.3	344.3	334.5	326.6	318.6	315.0	317.4
52.5°	337.6	326.0	315.0	306.4	297.2	293.6	294.2
55°	320.5	308.2	295.4	286.2	277.7	272.2	270.9
57.5°	303.4	289.9	276.4	266.0	255.0	250.1	248.3
60°	285.0	270.9	256.9	244.6	233.0	227.5	225.1
62.5°	267.9	252.6	236.7	223.8	212.2	204.9	203.1
65°	251.4	233.6	217.7	203.1	190.2	182.3	179.8
67.5°	233.6	215.3	198.2	182.3	170.0	159.6	158.4
70°	217.1	197.5	178.6	162.1	148.6	138.2	133.3
72.5°	200.6	180.4	160.9	143.1	126.0	116.2	112.5
75°	184.7	163.9	143.1	124.8	105.8	94.2	90.5
77.5°	170.0	148.6	126.6	106.4	88.7	74.0	69.1
80°	156.0	133.9	110.7	89.9	70.9	55.0	49.5
82.5°	141.3	120.5	96.6	74.6	55.0	38.5	31.8
85°	128.4	107.6	83.8	61.8	42.2	24.5	17.1
87.5°	118.0	95.4	74.0	52.0	31.8	14.1	4.9
90°	107.6	85.6	64.2	42.8	23.9	8.0	0.6
92.5°	98.5	77.7	56.3	36.7	18.3	5.5	0.6
95°	89.9	69.7	49.5	30.6	14.7	3.7	0.6
97.5°	82.0	63.0	44.0	26.3	12.2	3.1	0.6
100°	75.2	56.9	39.1	23.2	10.4	2.4	0.6
102.5°	68.5	51.4	34.9	20.2	9.2	1.8	0.6
105°	63.0	46.5	31.2	18.3	8.0	1.8	0.6
107.5°	57.5	42.2	28.1	15.9	6.7	1.2	0.6
110°	52.0	38.5	25.1	14.1	6.1	1.2	0.6



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-27SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	47.7	34.9	22.6	12.8	4.9	1.2	0.6
115°	43.4	31.2	20.2	11.0	4.3	0.6	0.6
117.5°	39.1	28.1	17.7	9.8	3.7	0.6	0.6
120°	35.5	25.1	15.9	8.6	3.1	0.6	0.6
122.5°	31.8	22.6	14.1	7.3	2.4	0.6	0.6
125°	28.7	20.2	12.2	6.1	1.8	0.6	0.6
127.5°	25.7	17.7	11.0	5.5	1.8	0.6	0.6
130°	22.6	15.9	9.2	4.3	1.2	0.6	0.6
132.5°	20.2	13.5	8.0	3.7	1.2	0.6	0.6
135°	17.7	11.6	6.7	2.4	1.2	0.6	0.6
137.5°	15.3	9.8	5.5	1.8	0.6	0.6	0.6
140°	12.8	8.6	4.3	1.8	0.6	0.6	0.6
142.5°	11.0	6.7	3.1	1.2	0.6	0.6	0.6
145°	8.6	5.5	2.4	1.2	0.6	0.6	0.6
147.5°	6.7	4.3	1.8	1.2	0.6	0.6	0.6
150°	4.9	3.1	1.8	0.6	0.6	0.6	0.6
152.5°	3.7	2.4	1.2	0.6	0.6	0.6	0.6
155°	2.4	1.8	1.2	0.6	0.6	0.6	0.6
157.5°	1.8	1.2	0.6	0.6	0.6	0.6	0.6
160°	1.2	0.6	0.6	0.6	0.6	0.6	0.6
162.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6
165°	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)