

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: P1213041

Luminaire Tested: 4SNLED-LD5-30SL-LW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33520)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-30SL-LW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

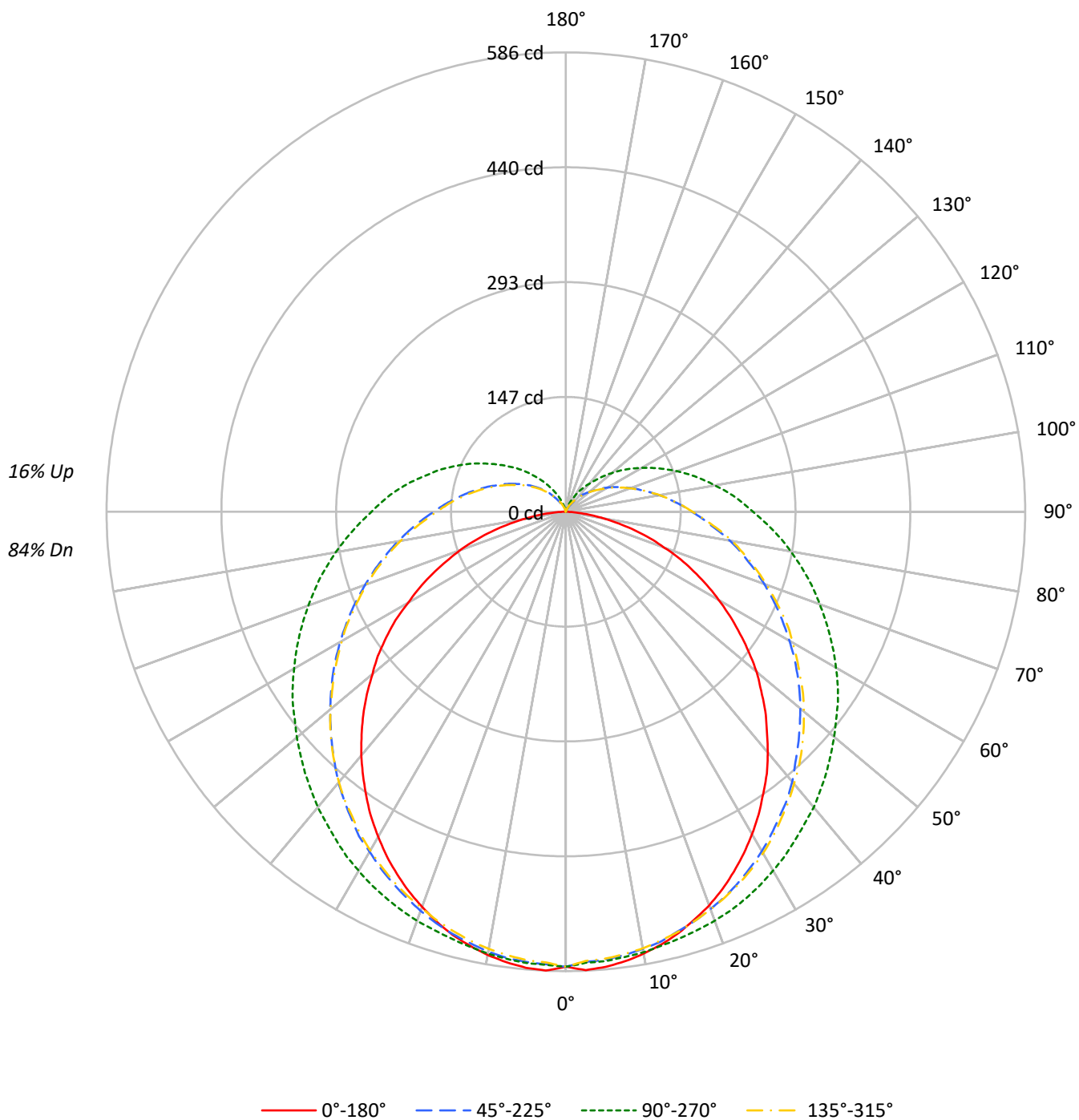
Lumens per Lamp: N/A
Luminaire Lumens: 2521.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 25
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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	4689	4689	4689	4689
5°	4714	4519	4724	4538
10°	4670	4391	4685	4405
15°	4616	4280	4636	4285
20°	4544	4201	4559	4201
25°	4454	4129	4481	4124
30°	4354	4055	4388	4055
35°	4237	3988	4284	3993
40°	4121	3948	4171	3948
45°	3988	3906	4049	3911
50°	3851	3881	3903	3891
55°	3658	3885	3772	3902
60°	3453	3897	3566	3921
65°	3226	3936	3367	3975
70°	2903	4008	3129	4065
75°	2533	4139	2774	4219
80°	1961	4334	2226	4434
85°	1168	4644	1462	4774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 5337 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	2.2
10°-20°	158.0	6.3
20°-30°	242.2	9.6
30°-40°	298.8	11.9
40°-50°	324.2	12.9
50°-60°	319.5	12.7
60°-70°	288.9	11.5
70°-80°	240.7	9.5
80°-90°	186.4	7.4
90°-100°	141.4	5.6
100°-110°	104.6	4.1
110°-120°	72.8	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°	455.2	18.1
0°-40°	754.0	29.9
0°-60°	1397.7	55.4
0°-90°	2113.7	83.8
90°-120°	318.8	12.6
90°-150°	403.1	16.0
90°-180°	407.0	16.1
0°-180°	2521.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	580	580	580	580	580	
5°	583	575	584	578	583	55
15°	556	563	559	564	556	157
25°	507	544	510	544	507	233
35°	439	510	444	511	439	275
45°	360	470	365	471	360	277
55°	271	424	280	425	271	243
65°	180	372	188	375	180	178
75°	91	318	99	324	91	96
85°	17	265	21	272	17	21
90°	1	239	1	248	1	1
95°	1	217	1	227	1	0
105°	1	172	1	182	1	1
115°	1	131	1	143	1	1
125°	1	94	1	105	1	1
135°	1	61	1	72	1	0
145°	1	36	1	44	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

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3
2.5°	585.2	585.2	584.5	583.3	583.9	585.8	584.5	581.5	579.6	574.8	576.0
5°	582.7	582.7	582.1	580.9	581.5	583.9	582.7	580.3	577.8	573.5	575.4
7.5°	578.4	578.4	577.8	576.6	577.8	580.3	579.0	576.6	574.8	570.5	572.3
10°	572.3	572.9	572.3	570.5	572.9	575.4	574.8	571.7	569.9	566.2	568.0
12.5°	565.0	565.6	565.0	564.3	565.6	569.2	568.0	565.6	564.3	561.3	563.1
15°	556.4	557.0	555.8	555.8	557.0	560.7	560.7	558.2	557.0	553.9	557.6
17.5°	545.4	546.0	545.4	545.4	546.6	550.3	550.9	549.7	548.4	547.2	550.9
20°	534.4	533.7	533.7	533.1	535.6	541.1	540.5	540.5	539.3	539.3	543.5
22.5°	521.5	521.5	520.9	520.9	523.9	528.8	528.8	530.1	528.8	531.3	535.0
25°	506.8	507.4	506.8	508.0	510.5	516.0	516.6	518.4	519.1	521.5	525.8
27.5°	491.5	492.1	491.5	492.7	497.0	501.3	504.4	506.8	507.4	511.1	516.6
30°	475.0	475.0	475.6	476.8	481.7	488.4	490.9	494.0	494.0	500.1	505.6
32.5°	457.8	457.8	457.8	460.3	465.8	473.8	476.8	480.5	481.7	487.8	494.0
35°	438.9	439.5	439.5	441.3	448.7	456.6	460.9	465.2	467.6	475.0	481.1
37.5°	421.1	422.3	420.5	423.0	433.4	440.1	445.0	449.3	453.6	463.4	468.2
40°	400.9	402.1	401.5	406.4	415.0	423.6	429.1	433.4	439.5	449.3	454.8
42.5°	379.5	380.7	381.9	387.5	396.6	405.2	411.9	417.4	424.8	433.4	442.5
45°	359.9	359.9	361.7	368.5	378.3	387.5	395.4	401.5	410.1	419.3	428.5
47.5°	337.9	338.5	340.9	348.9	359.3	370.3	377.7	385.6	394.8	404.6	415.0
50°	317.7	317.7	321.3	329.9	339.7	352.0	359.9	369.1	378.9	390.5	400.9
52.5°	294.4	295.6	301.1	309.1	322.0	333.0	342.2	352.0	363.6	375.8	387.5
55°	271.2	273.6	277.9	288.9	302.4	312.8	323.8	336.0	347.1	360.5	374.0
57.5°	248.5	250.3	257.1	268.1	282.2	295.0	306.7	318.3	331.8	345.2	359.3
60°	225.2	227.7	235.7	246.7	262.0	275.4	288.9	301.1	315.2	329.3	344.0
62.5°	203.2	205.0	214.2	227.1	242.4	257.1	270.5	285.2	300.5	314.0	328.7
65°	180.0	183.0	193.4	205.0	222.8	237.5	252.8	268.7	284.6	299.3	313.4
67.5°	158.5	160.4	171.4	184.9	202.6	219.1	235.0	252.2	268.7	284.0	298.1
70°	133.4	139.6	150.6	164.7	183.6	200.8	217.9	235.7	253.4	269.3	282.8
72.5°	112.6	117.5	129.8	145.1	163.4	183.6	201.4	220.4	238.1	254.6	268.7
75°	90.6	95.5	109.6	126.7	145.7	167.1	185.5	205.0	223.4	239.9	254.6
77.5°	69.2	75.3	90.6	108.3	129.2	151.2	170.2	189.7	208.7	226.5	241.2
80°	49.6	56.3	72.8	93.0	113.2	135.3	156.1	175.7	194.6	212.4	227.7
82.5°	31.8	39.2	56.9	77.1	98.5	120.6	142.0	161.6	180.6	198.3	214.2
85°	17.1	25.1	43.5	63.7	85.1	107.1	128.5	149.3	167.7	184.2	201.4
87.5°	4.9	14.7	32.4	52.6	74.7	94.9	115.7	136.5	154.9	172.6	187.9
90°	0.6	8.6	24.5	43.5	64.9	84.5	105.3	124.9	143.2	161.0	176.3
92.5°	0.6	5.5	19.0	36.1	55.7	75.9	96.7	115.7	132.8	150.6	165.9
95°	0.6	4.3	15.3	30.6	49.0	67.9	87.5	105.9	123.6	140.2	155.5
97.5°	0.6	3.1	12.2	26.3	42.8	60.6	79.6	97.9	115.1	131.0	145.1
100°	0.6	2.4	9.8	22.6	37.3	54.5	71.6	89.4	105.9	121.2	135.9
102.5°	0.6	1.8	8.6	19.0	33.1	48.4	64.9	81.4	97.3	112.0	126.7
105°	0.6	1.8	7.3	16.5	29.4	43.5	58.8	74.7	89.4	103.4	116.9
107.5°	0.6	1.2	6.1	14.1	25.7	39.2	53.3	68.6	82.0	95.5	108.3
110°	0.6	1.2	4.9	12.9	22.6	34.9	48.4	62.4	75.3	88.1	100.4

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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	43.5	56.3	68.6	81.4	92.4
115°	0.6	1.2	3.7	9.8	18.4	26.9	39.2	50.8	63.0	74.7	85.1
117.5°	0.6	1.2	3.1	8.0	15.9	24.5	34.3	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	28.2	36.1	45.9	55.7	64.9
125°	0.6	0.6	2.4	5.5	10.4	17.8	25.1	32.4	41.0	49.6	57.5
127.5°	0.6	0.6	1.8	4.3	9.2	15.3	22.0	30.0	36.1	44.1	52.0
130°	0.6	0.6	1.8	3.7	8.0	12.9	19.6	26.3	33.7	39.2	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	28.2
142.5°	0.6	0.6	0.6	1.8	2.4	4.3	6.7	9.8	13.5	17.8	22.6
145°	0.6	0.6	0.6	1.8	2.4	3.1	5.5	8.0	10.4	13.5	17.8
147.5°	0.6	0.6	0.6	1.2	1.8	2.4	4.3	6.1	8.0	10.4	12.9
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3
2.5°	576.0	576.6	578.4	578.4	577.2	577.2	576.6	576.0	576.6	577.8	577.8
5°	574.8	575.4	577.2	577.8	576.6	576.0	576.0	575.4	576.0	577.2	577.2
7.5°	572.3	572.9	574.8	575.4	574.1	574.1	573.5	572.9	574.1	574.8	574.8
10°	568.6	569.2	571.7	572.3	571.7	571.1	571.1	570.5	571.1	572.3	572.3
12.5°	563.7	565.0	568.0	568.0	568.0	567.4	567.4	566.8	567.4	568.6	568.0
15°	558.2	560.7	563.1	564.3	564.3	564.3	563.7	563.1	564.3	565.0	564.3
17.5°	552.1	555.2	558.8	560.1	560.1	560.7	560.1	559.4	560.7	560.7	560.1
20°	546.0	549.0	552.7	553.9	555.2	555.8	555.8	555.2	555.8	556.4	555.8
22.5°	538.0	541.7	546.0	547.8	549.0	550.3	550.3	550.3	550.9	551.5	550.3
25°	529.5	533.7	538.6	540.5	542.9	543.5	544.1	544.1	544.8	545.4	543.5
27.5°	520.3	525.2	530.1	533.1	535.0	536.2	536.2	536.8	537.4	538.0	536.2
30°	509.3	516.6	520.9	523.3	525.8	527.6	528.2	528.8	529.5	530.1	528.2
32.5°	499.5	505.6	511.1	514.2	517.2	519.7	520.3	520.3	521.5	521.5	519.7
35°	487.8	495.2	500.7	503.7	507.4	509.3	510.5	510.5	511.7	511.7	509.9
37.5°	476.2	483.6	489.7	493.3	497.6	500.1	500.7	500.7	501.9	501.9	499.5
40°	464.0	471.9	478.7	482.9	486.6	489.7	490.3	492.1	492.1	491.5	489.1
42.5°	451.7	459.1	466.4	471.3	476.2	479.3	480.5	481.1	481.1	480.5	478.7
45°	438.3	446.8	453.6	459.7	464.6	467.6	469.5	470.1	470.1	468.9	467.0
47.5°	425.4	434.0	440.7	447.4	452.3	456.0	457.8	458.5	457.8	457.2	455.4
50°	411.9	421.7	428.5	435.2	440.1	443.2	446.2	446.8	446.2	445.6	441.9
52.5°	397.9	408.3	415.6	422.3	427.9	431.5	434.0	434.6	434.6	433.4	430.9
55°	383.8	393.0	402.1	409.5	415.6	419.3	422.3	423.6	422.3	421.1	418.1
57.5°	370.9	379.5	388.7	396.6	402.8	407.7	410.1	411.3	410.1	408.3	405.2
60°	355.6	364.8	375.2	382.6	389.3	394.2	395.4	397.9	396.6	394.8	391.7
62.5°	340.9	352.0	361.1	370.3	375.8	381.3	383.8	385.0	383.8	381.9	378.9
65°	325.6	337.9	347.1	356.2	362.4	367.9	370.9	371.5	370.3	368.5	365.4
67.5°	311.6	323.2	333.0	342.8	348.3	353.8	356.8	358.1	356.8	354.4	351.3
70°	297.5	309.1	320.7	328.1	334.8	340.9	342.8	344.6	343.4	340.9	337.3
72.5°	283.4	295.6	307.3	314.6	322.0	327.5	329.9	331.8	330.5	328.1	323.8
75°	268.7	281.6	293.2	301.1	308.5	314.0	316.4	318.3	317.1	314.6	309.7
77.5°	255.2	268.1	279.1	287.7	295.0	299.9	304.2	304.8	303.6	301.1	296.3
80°	241.2	254.0	265.6	274.2	281.6	286.5	289.5	291.4	290.1	287.7	282.8
82.5°	228.9	240.6	252.2	260.7	268.1	274.2	276.7	278.5	277.9	274.2	270.5
85°	215.5	228.9	238.1	247.3	254.6	260.7	262.6	265.0	264.4	261.4	256.5
87.5°	202.0	215.5	226.5	235.7	242.4	247.3	250.3	251.6	251.0	247.9	242.4
90°	191.0	203.2	214.2	224.0	229.5	235.0	238.1	238.7	238.7	235.0	230.8
92.5°	180.6	192.2	203.2	212.4	219.1	224.0	226.5	227.7	227.1	224.0	219.1
95°	168.9	181.8	192.2	201.4	208.1	213.0	215.5	216.7	216.1	213.0	208.1
97.5°	159.1	170.8	181.2	189.7	196.5	201.4	203.8	205.0	205.0	202.0	197.1
100°	149.3	161.0	170.8	179.3	185.5	190.4	192.8	193.4	192.8	190.4	185.5
102.5°	139.6	150.6	160.4	168.3	175.1	179.3	181.8	182.4	182.4	179.3	174.4
105°	129.8	140.8	150.0	158.5	164.0	168.3	170.2	172.0	171.4	168.9	164.0
107.5°	120.6	131.6	140.2	148.1	153.6	157.9	159.8	161.6	161.0	158.5	153.6
110°	112.0	122.4	130.4	138.3	143.2	147.5	150.6	151.2	150.0	147.5	143.2

TEST NUMBER: P1213041

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	104.1	113.2	121.2	128.5	134.0	137.1	139.6	140.8	139.6	137.1	134.0
115°	95.5	104.7	112.6	119.4	124.3	127.9	129.8	131.0	129.8	127.3	124.3
117.5°	87.5	96.1	104.1	110.8	115.1	118.1	120.0	121.2	120.0	118.1	115.1
120°	80.8	88.1	95.5	101.6	106.5	109.0	110.8	112.0	111.4	109.0	105.9
122.5°	72.8	80.8	87.5	93.6	97.9	100.4	101.6	102.8	102.2	100.4	97.3
125°	66.1	72.8	79.6	85.1	89.4	91.8	93.0	94.3	93.6	91.8	88.1
127.5°	58.8	66.1	71.6	77.1	80.2	83.9	84.5	85.7	85.1	83.2	80.2
130°	53.3	58.8	64.3	69.2	72.8	75.3	76.5	77.1	75.9	74.7	71.6
132.5°	46.5	52.6	57.5	61.8	64.3	66.7	67.9	68.6	68.6	66.7	64.3
135°	41.6	45.9	50.2	54.5	56.9	59.4	60.6	61.2	60.6	59.4	56.9
137.5°	37.3	41.0	44.1	47.7	50.8	52.0	53.3	53.3	52.6	52.0	50.2
140°	32.4	36.7	39.8	42.2	44.7	45.3	46.5	46.5	45.9	45.3	44.1
142.5°	27.5	31.2	34.3	37.3	39.2	40.4	41.0	41.6	41.0	40.4	38.6
145°	22.0	26.3	29.4	31.2	33.7	34.3	34.9	35.5	34.9	34.3	32.4
147.5°	17.1	20.8	23.9	26.3	28.2	28.8	29.4	30.0	29.4	28.2	27.5
150°	12.2	15.3	19.0	21.4	22.6	23.9	23.9	23.9	24.5	23.3	22.0
152.5°	9.8	11.0	13.5	15.9	17.8	18.4	19.0	19.0	18.4	18.4	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: P1213041

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3
2.5°	577.2	577.2	577.8	576.6	572.9	573.5	573.5	576.0	577.2	577.8	580.9
5°	576.0	576.0	577.2	575.4	572.3	572.3	572.3	574.8	575.4	576.6	579.0
7.5°	574.1	574.1	574.8	572.9	569.2	569.2	568.6	571.1	572.3	572.9	575.4
10°	571.1	571.1	571.7	569.9	565.6	565.6	565.0	566.8	567.4	568.6	570.5
12.5°	566.8	566.8	566.8	565.0	560.7	560.1	559.4	561.3	561.3	561.9	563.7
15°	563.1	561.9	561.9	560.1	555.8	554.6	553.3	553.9	555.2	554.6	555.8
17.5°	558.8	557.6	556.4	554.6	549.0	547.2	546.0	546.6	546.0	545.4	546.6
20°	553.9	552.1	551.5	548.4	542.9	539.9	537.4	536.2	536.8	535.0	535.6
22.5°	548.4	546.0	544.8	541.1	535.6	531.9	528.8	526.4	525.8	523.3	523.9
25°	541.7	538.6	536.8	533.7	527.6	523.3	519.7	516.0	514.2	511.1	510.5
27.5°	533.7	530.7	528.2	525.2	519.1	513.5	509.3	504.4	501.9	498.2	496.4
30°	525.8	522.1	518.4	516.0	509.3	503.1	496.4	492.1	488.4	484.2	481.1
32.5°	516.0	512.3	508.6	505.0	498.9	491.5	486.0	479.3	475.0	470.1	466.4
35°	506.2	501.3	497.6	492.7	487.2	478.7	471.9	465.2	459.7	454.2	449.9
37.5°	495.2	491.5	486.0	481.7	475.0	466.4	459.1	450.5	445.6	438.3	432.7
40°	484.8	480.5	475.0	469.5	462.7	452.9	445.0	435.2	429.7	421.1	415.6
42.5°	474.4	468.2	462.7	456.6	449.3	440.1	430.3	420.5	413.2	405.2	397.2
45°	462.7	456.0	449.3	442.5	435.2	426.0	415.6	405.2	396.0	388.7	378.9
47.5°	450.5	443.8	435.8	428.5	420.5	411.3	400.3	389.3	379.5	370.9	360.5
50°	438.3	431.5	423.0	415.0	405.8	396.6	385.0	372.2	361.7	350.7	341.5
52.5°	425.4	418.7	410.7	400.3	390.5	381.3	369.1	355.6	344.0	334.8	323.2
55°	412.5	405.8	396.6	386.2	376.4	364.8	353.2	339.7	326.9	315.8	304.2
57.5°	399.1	393.0	382.6	374.0	361.7	349.5	337.3	324.4	310.3	297.5	284.0
60°	385.6	378.9	369.1	358.7	346.4	334.2	321.3	307.3	292.6	278.5	266.3
62.5°	373.4	364.8	355.6	344.6	331.8	320.1	305.4	290.1	275.4	260.7	246.1
65°	359.3	350.1	341.5	330.5	317.1	303.6	288.9	273.6	257.7	241.8	227.1
67.5°	345.2	336.0	326.9	315.8	301.8	287.7	272.4	257.1	239.3	224.0	206.9
70°	331.1	323.8	312.2	300.5	287.7	272.4	257.1	240.6	222.2	205.7	187.9
72.5°	317.1	309.7	298.1	285.8	273.6	257.7	241.2	224.6	207.5	188.5	169.5
75°	303.6	294.4	284.0	272.4	259.5	243.0	226.5	209.3	189.1	171.4	151.8
77.5°	290.7	282.2	271.8	258.9	244.8	228.9	211.8	194.0	173.8	154.9	133.4
80°	276.7	268.1	257.7	244.8	230.8	215.5	197.1	178.7	159.1	138.3	116.3
82.5°	263.2	255.2	243.6	232.0	216.7	201.4	183.0	164.7	143.8	123.6	102.2
85°	249.1	241.2	230.1	217.9	203.2	186.7	169.5	151.2	130.4	109.6	88.1
87.5°	236.9	227.7	216.7	204.4	189.7	173.8	157.3	137.7	117.5	97.3	75.3
90°	224.0	215.5	204.4	192.2	177.5	161.6	144.5	126.1	106.5	85.7	64.9
92.5°	213.0	203.8	193.4	181.2	166.5	151.2	134.0	115.7	96.7	76.5	56.3
95°	202.0	192.8	183.0	170.8	156.1	140.8	123.6	105.9	87.5	67.9	49.0
97.5°	189.7	181.8	172.0	160.4	145.7	131.0	114.5	97.3	79.6	60.6	42.8
100°	180.0	170.8	161.6	149.3	135.9	121.8	105.3	88.8	71.6	53.9	37.3
102.5°	168.9	160.4	151.2	139.6	126.1	112.0	96.7	80.8	64.9	48.4	32.4
105°	158.5	150.6	140.8	129.8	116.9	103.4	88.8	74.1	58.8	42.8	28.8
107.5°	148.1	140.2	131.0	120.6	108.3	94.9	81.4	66.7	52.6	38.6	25.7
110°	137.7	130.4	121.8	111.4	99.8	87.5	74.7	61.2	47.1	34.3	22.6

TEST NUMBER: P1213041

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	128.5	121.2	112.6	102.8	91.8	80.2	67.9	55.1	42.2	30.6	19.6
115°	119.4	112.6	104.1	95.5	84.5	73.5	61.8	49.6	37.9	27.5	17.1
117.5°	110.2	103.4	95.5	86.9	77.1	66.7	55.7	44.1	34.3	24.5	15.3
120°	101.0	94.9	87.5	79.6	71.0	60.6	49.6	39.8	30.6	21.4	13.5
122.5°	92.4	86.9	80.2	72.8	63.7	53.9	44.7	36.1	27.5	19.0	11.0
125°	84.5	79.0	72.8	65.5	56.9	48.4	40.4	32.4	23.9	16.5	9.2
127.5°	76.5	71.0	64.9	58.1	51.4	43.5	36.1	28.8	21.4	14.7	8.0
130°	68.6	63.7	58.1	52.6	45.9	38.6	32.4	25.1	18.4	11.6	6.7
132.5°	60.6	56.9	52.0	46.5	40.4	34.9	28.2	22.0	15.9	10.4	6.1
135°	53.9	50.2	45.9	41.0	36.1	30.6	24.5	19.0	13.5	8.6	4.9
137.5°	47.7	44.7	40.4	36.1	31.8	26.3	21.4	15.9	11.0	7.3	3.7
140°	42.2	39.2	35.5	31.2	27.5	22.6	17.8	12.9	9.8	6.1	3.1
142.5°	36.7	33.7	30.6	26.9	23.3	19.0	14.7	11.0	8.0	4.9	3.1
145°	31.2	28.8	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	18.4	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	12.9	11.6	9.8	7.3	5.5	4.3	3.1	2.4	1.2
155°	12.9	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: P1213041

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3
2.5°	580.9	579.0	581.5	585.8	586.4	585.8	584.5	586.4	588.8	588.2	583.9
5°	579.6	577.2	579.6	583.9	583.9	583.3	582.7	584.5	587.0	586.4	582.7
7.5°	576.0	573.5	576.0	579.6	580.3	579.0	579.0	580.9	583.3	582.7	579.6
10°	571.1	568.6	569.9	574.1	575.4	574.1	574.1	576.0	579.0	578.4	574.8
12.5°	563.7	561.9	563.1	566.8	568.0	567.4	566.8	569.2	572.3	572.3	568.6
15°	555.8	553.3	554.6	558.8	559.4	558.2	558.8	560.7	564.3	564.3	561.3
17.5°	546.6	543.5	545.4	548.4	549.0	549.0	549.0	551.5	555.8	555.2	552.7
20°	536.2	531.9	533.1	536.2	537.4	537.4	537.4	541.7	544.8	544.8	542.3
22.5°	523.9	520.9	520.9	523.9	525.8	525.2	525.2	528.8	533.1	532.5	532.5
25°	509.9	507.4	506.2	509.9	510.5	511.1	512.3	516.0	520.9	520.9	521.5
27.5°	495.2	492.7	492.1	495.2	495.8	496.4	497.6	501.9	506.8	507.4	508.6
30°	481.1	477.4	476.2	478.7	479.9	480.5	480.5	487.2	491.5	493.3	495.8
32.5°	464.6	460.9	457.8	462.1	462.7	464.0	464.6	471.3	476.2	479.3	482.9
35°	448.0	441.9	440.7	443.8	445.0	445.6	446.8	454.2	460.9	463.4	468.2
37.5°	429.7	425.4	421.7	424.8	426.0	426.6	430.3	437.0	443.8	447.4	452.3
40°	412.5	407.0	404.0	405.8	407.0	407.7	411.9	419.3	427.2	431.5	437.6
42.5°	393.6	386.2	383.8	385.6	386.2	388.1	391.7	401.5	409.5	415.6	420.5
45°	374.6	369.1	363.6	365.4	366.0	367.3	372.8	383.2	391.7	399.1	404.6
47.5°	355.0	348.3	342.8	344.0	346.4	347.1	353.2	365.4	373.4	381.3	388.7
50°	335.4	326.2	322.0	322.0	323.2	326.2	334.2	346.4	355.0	364.2	372.2
52.5°	315.2	306.7	301.8	302.4	303.6	307.3	314.6	326.9	336.6	346.4	356.2
55°	295.0	285.8	280.9	279.7	280.9	285.8	294.4	307.3	317.1	328.7	339.1
57.5°	274.8	263.8	259.5	257.7	258.9	265.0	273.6	287.1	299.3	310.3	322.6
60°	252.8	244.2	236.9	232.6	235.7	243.6	252.8	266.9	279.7	292.0	305.4
62.5°	233.8	222.8	214.8	210.6	213.6	220.4	233.2	246.7	260.7	274.8	288.3
65°	212.4	201.4	192.2	187.9	191.0	198.9	211.8	226.5	241.8	255.9	271.8
67.5°	191.6	180.0	168.9	164.7	168.3	176.9	191.0	207.5	224.0	238.7	255.9
70°	171.4	158.5	146.9	143.8	146.3	157.9	171.4	187.9	205.0	222.2	239.9
72.5°	153.0	137.1	124.9	121.2	124.3	137.1	152.4	169.5	187.9	206.3	225.2
75°	131.6	116.9	103.4	99.2	102.8	114.5	133.4	151.8	171.4	191.0	208.7
77.5°	114.5	97.3	83.2	76.5	82.6	97.3	115.7	135.3	155.5	175.7	195.9
80°	96.7	79.0	63.7	56.3	63.0	79.0	97.3	118.7	141.4	161.6	180.0
82.5°	80.8	61.8	45.9	37.9	45.3	63.0	83.2	104.7	126.7	146.9	168.3
85°	66.1	46.5	30.0	21.4	31.8	47.7	69.2	91.2	113.8	134.7	155.5
87.5°	53.9	34.9	18.4	9.2	19.6	37.3	57.5	79.6	102.2	123.0	142.6
90°	44.1	25.1	9.8	1.2	11.6	28.2	47.7	69.2	90.6	112.0	131.6
92.5°	36.1	19.0	5.5	0.6	7.3	22.6	41.0	61.2	82.0	102.8	121.8
95°	30.0	14.7	3.7	0.6	5.5	17.8	34.9	54.5	74.1	94.3	113.2
97.5°	25.7	12.2	3.1	0.6	4.3	15.3	30.0	48.4	67.3	86.3	104.7
100°	22.0	9.8	2.4	0.6	3.7	12.9	26.3	42.8	60.6	79.0	96.7
102.5°	19.0	8.0	1.8	0.6	3.1	11.0	23.3	38.6	54.5	72.2	89.4
105°	16.5	6.7	1.8	0.6	2.4	9.8	20.8	34.3	50.2	66.1	82.6
107.5°	14.1	5.5	1.2	0.6	1.8	8.0	18.4	31.2	45.3	60.6	75.9
110°	12.2	4.9	1.2	0.6	1.8	7.3	15.9	28.2	41.0	55.1	69.8

TEST NUMBER: P1213041

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L930-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	64.3
115°	9.2	3.1	0.6	0.6	1.2	5.5	12.9	22.6	33.7	45.9	58.8
117.5°	7.3	2.4	0.6	0.6	0.6	4.3	11.0	20.2	30.6	42.2	53.9
120°	6.1	2.4	0.6	0.6	0.6	3.7	9.8	17.8	27.5	37.9	49.0
122.5°	5.5	1.8	0.6	0.6	0.6	3.1	8.6	15.9	24.5	34.3	44.7
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	28.8
135°	2.4	1.2	0.6	0.6	0.6	1.2	3.1	7.3	12.2	18.4	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: P1213041

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3
2.5°	582.1	577.8	579.0	578.4	579.6	581.5	581.5	580.9	580.9	579.6	578.4
5°	580.9	576.6	578.4	577.8	579.0	580.9	580.9	580.3	580.3	578.4	577.8
7.5°	577.2	574.1	575.4	575.4	576.6	578.4	578.4	577.8	577.8	576.0	575.4
10°	573.5	569.9	571.7	571.7	572.9	575.4	575.4	574.8	574.8	572.9	572.3
12.5°	567.4	563.7	566.8	567.4	568.6	571.1	570.5	570.5	570.5	568.6	568.0
15°	560.1	557.6	560.7	561.3	563.1	566.2	566.2	566.2	566.2	564.3	563.7
17.5°	552.1	550.3	553.3	554.6	557.0	560.1	560.1	560.7	561.3	560.1	559.4
20°	542.9	541.7	544.8	547.2	550.9	553.9	555.2	555.8	557.0	555.8	555.2
22.5°	532.5	532.5	536.8	539.3	543.5	546.6	548.4	550.3	551.5	550.3	549.7
25°	520.9	522.7	527.0	531.3	536.2	539.3	541.1	543.5	544.8	544.1	543.5
27.5°	509.9	512.3	517.8	522.1	526.4	531.3	533.1	536.2	537.4	537.4	536.8
30°	497.0	500.7	506.8	511.7	517.2	522.1	524.6	527.6	529.5	528.2	528.8
32.5°	484.8	490.9	495.8	501.3	507.4	512.3	515.4	519.1	520.9	520.3	520.9
35°	471.3	477.4	484.2	489.7	497.0	501.9	506.2	509.3	511.7	511.1	511.1
37.5°	456.6	464.6	471.3	478.7	485.4	490.9	495.2	498.9	501.3	501.3	501.3
40°	442.5	451.1	457.8	466.4	475.0	479.9	484.8	488.4	490.9	491.5	492.1
42.5°	427.2	436.4	444.4	453.6	462.1	468.2	473.8	478.0	480.5	481.7	481.1
45°	413.2	421.7	430.9	441.3	449.3	455.4	462.1	467.0	469.5	470.1	470.7
47.5°	397.2	407.0	417.4	427.9	435.8	443.8	449.9	454.8	457.2	459.1	459.1
50°	381.9	392.3	404.0	415.0	423.6	431.5	437.6	443.2	446.2	447.4	448.0
52.5°	367.9	377.7	389.9	400.9	409.5	417.4	425.4	431.5	434.6	435.8	435.8
55°	350.7	363.0	376.4	386.8	396.0	405.2	413.2	419.3	422.3	424.2	425.4
57.5°	334.8	347.7	361.7	372.8	383.8	392.3	399.7	407.7	410.1	412.5	413.2
60°	319.5	332.4	345.8	358.1	369.1	378.3	386.8	393.6	397.9	399.1	400.3
62.5°	303.6	317.1	331.1	343.4	355.0	366.0	374.0	380.1	385.0	386.8	388.1
65°	288.3	302.4	316.4	329.3	341.5	352.6	360.5	366.6	371.5	374.6	375.2
67.5°	271.8	287.1	301.8	315.2	327.5	339.1	347.1	353.2	358.1	361.7	362.4
70°	256.5	272.4	287.1	301.8	314.0	325.6	334.2	340.3	345.8	348.3	349.5
72.5°	241.8	258.3	273.6	288.3	300.5	312.2	321.3	327.5	333.0	336.0	336.6
75°	227.7	244.2	260.7	274.8	287.7	299.3	308.5	315.2	320.1	323.2	324.4
77.5°	213.6	230.8	247.3	261.4	274.8	286.5	294.4	302.4	307.3	310.9	310.9
80°	199.5	217.3	234.4	248.5	262.0	272.4	281.6	289.5	294.4	298.1	298.1
82.5°	187.3	204.4	221.0	235.0	248.5	260.1	269.3	276.7	282.2	284.6	285.2
85°	173.2	192.2	207.5	222.8	235.7	246.7	255.9	263.8	268.7	271.2	272.4
87.5°	161.6	180.0	196.5	209.9	222.8	233.8	244.2	251.0	255.9	258.9	260.1
90°	150.6	168.3	184.9	198.3	211.8	222.2	232.0	238.7	244.2	246.7	247.9
92.5°	140.8	158.5	174.4	187.9	200.8	212.4	221.6	228.3	233.2	235.7	237.5
95°	131.6	148.7	164.0	178.7	191.0	201.4	211.2	217.9	223.4	225.2	227.1
97.5°	122.4	138.9	154.2	168.3	181.2	191.0	200.2	206.9	211.2	214.2	216.1
100°	114.5	130.4	145.1	158.5	170.8	180.0	189.7	195.9	200.2	202.6	205.0
102.5°	105.9	121.8	135.9	148.7	161.6	170.2	179.3	185.5	189.1	193.4	193.4
105°	98.5	113.2	127.3	139.6	150.6	161.0	168.9	175.1	179.3	182.4	182.4
107.5°	90.6	105.3	118.7	131.6	142.0	151.8	159.1	164.7	169.5	171.4	173.2
110°	84.5	97.3	110.8	123.0	132.8	142.0	149.3	155.5	159.8	161.6	162.8

TEST NUMBER: P1213041

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	77.1	90.6	102.8	114.5	124.3	132.8	140.2	145.1	149.3	151.8	152.4
115°	71.0	83.9	94.9	105.9	116.3	123.6	130.4	135.3	139.6	141.4	142.6
117.5°	65.5	77.1	88.1	97.3	107.1	115.1	121.8	126.1	129.8	132.2	133.4
120°	60.0	71.0	80.8	90.0	99.2	106.5	112.6	116.9	121.2	123.0	123.0
122.5°	54.5	64.9	74.1	82.6	91.2	97.9	104.7	108.3	112.0	113.8	113.8
125°	49.6	59.4	67.9	75.9	83.9	90.0	95.5	99.8	103.4	104.7	104.7
127.5°	44.7	53.9	61.8	69.2	75.9	82.0	87.5	91.8	94.9	96.1	96.1
130°	40.4	48.4	55.7	63.0	69.8	74.7	80.2	83.9	85.7	87.5	88.1
132.5°	36.1	43.5	50.2	56.3	63.0	67.9	72.2	75.9	77.7	79.6	80.2
135°	31.8	38.6	44.7	50.8	56.3	61.2	64.9	67.9	70.4	71.6	72.2
137.5°	26.9	34.3	39.8	44.7	50.8	54.5	58.8	60.6	63.0	64.3	64.3
140°	22.6	28.2	34.3	39.2	44.1	47.7	51.4	54.5	56.3	56.9	56.9
142.5°	18.4	23.3	28.2	34.3	38.6	41.6	45.3	47.7	49.0	49.6	50.2
145°	14.7	18.4	22.6	28.2	33.1	36.7	38.6	41.0	42.2	42.8	43.5
147.5°	11.0	14.7	18.4	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	12.9	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: P1213041

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3
2.5°	579.0	580.3	579.6	579.6	579.6	580.9	579.6	574.1	575.4	576.6	577.8
5°	578.4	579.0	579.0	578.4	578.4	579.6	578.4	572.9	574.1	575.4	576.0
7.5°	576.0	576.6	576.6	576.6	576.0	577.2	575.4	570.5	570.5	571.7	572.3
10°	572.9	574.1	573.5	572.9	572.9	572.9	571.7	566.2	566.2	566.8	567.4
12.5°	569.2	569.2	569.2	568.6	568.0	568.0	566.8	561.3	560.7	561.9	561.3
15°	564.3	565.6	564.3	563.7	562.5	562.5	560.7	555.2	553.9	554.6	553.9
17.5°	560.1	560.7	559.4	558.2	557.0	556.4	554.6	548.4	546.6	547.2	546.0
20°	555.8	555.8	554.6	553.3	551.5	549.7	547.2	541.1	538.0	538.0	535.6
22.5°	550.3	550.3	549.0	547.2	545.4	542.9	540.5	534.4	529.5	528.2	526.4
25°	544.1	543.5	542.9	541.1	537.4	535.0	532.5	525.8	520.3	517.8	514.8
27.5°	536.8	536.8	535.0	533.1	529.5	526.4	523.3	517.2	509.9	506.8	502.5
30°	528.8	528.8	527.0	524.6	520.9	517.2	513.5	506.2	498.9	494.6	489.7
32.5°	520.9	520.3	518.4	516.0	512.3	506.8	503.7	496.4	487.8	482.9	476.2
35°	511.1	510.5	508.6	505.6	500.7	496.4	491.5	484.8	475.0	468.9	461.5
37.5°	501.3	500.7	499.5	495.2	490.3	485.4	479.3	472.5	463.4	455.4	448.0
40°	491.5	490.9	488.4	485.4	479.3	473.1	467.0	460.3	450.5	441.3	433.4
42.5°	481.1	480.5	477.4	473.8	467.0	460.9	453.6	446.2	436.4	425.4	417.4
45°	470.7	469.5	466.4	462.1	454.8	448.0	440.7	432.1	422.3	411.9	401.5
47.5°	459.7	457.8	454.8	448.7	442.5	435.2	426.6	417.4	407.7	396.0	385.0
50°	447.4	446.2	442.5	437.0	429.7	422.3	412.5	403.4	391.7	380.7	367.3
52.5°	435.8	433.4	430.3	424.2	416.8	408.9	398.5	387.5	375.8	365.4	351.3
55°	423.6	422.3	418.1	413.2	404.0	394.8	385.0	373.4	360.5	348.3	334.8
57.5°	411.9	409.5	405.8	399.1	391.1	381.9	371.5	359.3	345.2	332.4	317.7
60°	400.3	396.6	392.3	386.2	377.7	367.9	356.8	344.0	329.9	315.8	300.5
62.5°	387.5	384.4	379.5	373.4	364.8	354.4	342.8	329.3	315.8	301.1	284.6
65°	374.6	371.5	366.6	360.5	352.0	340.3	328.1	314.6	299.3	285.2	267.5
67.5°	361.7	358.7	353.2	346.4	337.9	326.9	314.0	299.9	284.6	269.3	251.0
70°	348.9	345.2	340.3	333.0	324.4	312.8	299.9	285.2	269.9	253.4	235.0
72.5°	336.0	333.0	326.9	320.1	310.9	299.3	286.5	271.8	255.9	238.7	220.4
75°	323.2	319.5	315.2	307.3	297.5	286.5	273.0	258.3	241.2	224.6	205.7
77.5°	310.3	307.3	301.8	293.8	284.6	273.0	259.5	244.8	227.7	210.6	190.4
80°	297.5	293.8	289.5	282.2	271.8	260.1	246.1	231.4	214.2	196.5	176.3
82.5°	284.6	280.9	276.1	268.7	258.9	247.3	233.8	217.9	200.8	182.4	163.4
85°	271.8	268.7	263.2	255.9	245.4	233.8	220.4	206.3	187.9	169.5	150.6
87.5°	258.9	255.9	250.3	243.0	233.2	221.6	208.1	193.4	175.7	158.5	137.7
90°	246.7	244.2	238.7	231.4	221.6	209.9	197.7	181.8	164.7	147.5	127.9
92.5°	235.7	233.2	228.3	221.0	212.4	199.5	187.3	172.0	154.9	137.1	118.1
95°	225.9	222.8	217.9	211.2	200.8	189.7	177.5	162.2	145.7	127.9	109.6
97.5°	214.8	211.8	206.9	199.5	191.0	179.3	167.1	152.4	135.9	119.4	101.0
100°	203.8	200.8	195.3	189.1	180.6	168.9	157.3	142.6	127.3	111.4	93.6
102.5°	192.8	189.7	184.9	178.7	170.2	159.8	148.1	134.0	118.7	102.8	86.3
105°	182.4	179.3	174.4	168.3	160.4	150.0	137.7	125.5	110.8	95.5	79.6
107.5°	172.0	168.9	164.7	158.5	150.6	140.8	129.2	116.3	102.8	88.1	72.8
110°	161.6	159.1	154.2	148.7	140.8	131.0	120.6	108.3	94.9	81.4	66.7

TEST NUMBER: P1213041

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	151.8	149.3	144.5	138.3	131.6	122.4	112.0	100.4	87.5	74.7	60.6
115°	142.0	138.9	134.7	129.2	122.4	113.8	104.1	93.6	80.8	68.6	55.7
117.5°	132.2	129.8	125.5	120.0	113.8	105.3	96.1	86.3	74.1	62.4	50.8
120°	122.4	120.6	116.3	111.4	105.3	97.3	88.8	79.0	67.9	56.9	45.9
122.5°	113.2	111.4	107.1	102.8	96.7	89.4	81.4	72.2	62.4	52.0	42.2
125°	104.7	102.2	98.5	94.3	88.8	82.0	74.1	65.5	56.3	47.1	37.9
127.5°	95.5	93.6	91.2	86.3	80.8	74.7	67.3	60.0	51.4	42.8	34.3
130°	88.1	85.7	82.6	79.0	74.1	67.9	61.2	53.9	46.5	38.6	30.0
132.5°	79.6	77.1	74.7	71.0	66.7	61.2	55.1	48.4	41.6	34.3	26.9
135°	71.6	69.8	67.3	63.7	59.4	55.1	49.0	42.8	36.7	30.0	23.9
137.5°	64.3	62.4	60.0	57.5	53.3	49.0	43.5	37.9	32.4	26.3	20.8
140°	56.9	55.7	53.3	50.8	47.1	42.8	37.9	33.1	28.2	22.6	17.8
142.5°	49.6	48.4	46.5	44.1	41.0	37.3	33.1	28.8	23.9	19.6	15.3
145°	42.8	42.2	40.4	37.9	35.5	31.8	28.2	24.5	20.2	16.5	12.2
147.5°	36.1	35.5	34.3	32.4	30.0	26.9	23.9	20.2	17.1	13.5	9.8
150°	30.0	29.4	28.8	26.3	25.1	22.0	19.6	16.5	14.1	10.4	8.0
152.5°	24.5	24.5	23.3	21.4	20.2	17.8	15.9	13.5	11.0	8.6	6.1
155°	19.6	19.0	18.4	17.1	15.9	14.1	12.2	10.4	8.6	6.1	4.3
157.5°	15.3	14.7	14.1	12.9	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: P1213041

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	580.3	580.3	580.3	580.3	580.3	580.3	580.3
2.5°	577.2	577.2	579.6	579.0	577.2	580.9	585.2
5°	575.4	575.4	577.2	577.2	575.4	579.0	582.7
7.5°	572.3	571.7	573.5	573.5	571.1	574.1	578.4
10°	566.8	566.2	568.0	568.0	565.6	568.6	572.3
12.5°	560.7	559.4	561.3	560.7	558.2	561.3	565.0
15°	552.7	552.1	553.3	552.1	549.7	552.7	556.4
17.5°	544.8	542.9	543.5	543.5	539.3	542.3	545.4
20°	534.4	531.9	532.5	531.9	528.8	530.7	534.4
22.5°	523.9	520.3	520.3	519.7	516.0	518.4	521.5
25°	511.1	506.8	506.8	506.2	501.9	503.7	506.8
27.5°	498.2	494.0	492.1	491.5	487.2	487.2	491.5
30°	484.8	478.7	477.4	475.6	471.3	471.3	475.0
32.5°	471.9	463.4	460.9	458.5	454.2	453.6	457.8
35°	454.8	448.0	443.8	441.3	436.4	435.2	438.9
37.5°	440.7	432.1	426.0	423.0	418.1	416.2	421.1
40°	425.4	416.2	408.3	406.4	399.1	396.6	400.9
42.5°	408.3	398.5	390.5	386.8	381.3	378.9	379.5
45°	391.1	380.7	372.2	367.3	361.7	357.5	359.9
47.5°	373.4	364.2	353.8	346.4	339.7	336.6	337.9
50°	355.6	344.6	334.8	326.9	318.9	315.2	317.7
52.5°	337.9	326.2	315.2	306.7	297.5	293.8	294.4
55°	320.7	308.5	295.6	286.5	277.9	272.4	271.2
57.5°	303.6	290.1	276.7	266.3	255.2	250.3	248.5
60°	285.2	271.2	257.1	244.8	233.2	227.7	225.2
62.5°	268.1	252.8	236.9	224.0	212.4	205.0	203.2
65°	251.6	233.8	217.9	203.2	190.4	182.4	180.0
67.5°	233.8	215.5	198.3	182.4	170.2	159.8	158.5
70°	217.3	197.7	178.7	162.2	148.7	138.3	133.4
72.5°	200.8	180.6	161.0	143.2	126.1	116.3	112.6
75°	184.9	164.0	143.2	124.9	105.9	94.3	90.6
77.5°	170.2	148.7	126.7	106.5	88.8	74.1	69.2
80°	156.1	134.0	110.8	90.0	71.0	55.1	49.6
82.5°	141.4	120.6	96.7	74.7	55.1	38.6	31.8
85°	128.5	107.7	83.9	61.8	42.2	24.5	17.1
87.5°	118.1	95.5	74.1	52.0	31.8	14.1	4.9
90°	107.7	85.7	64.3	42.8	23.9	8.0	0.6
92.5°	98.5	77.7	56.3	36.7	18.4	5.5	0.6
95°	90.0	69.8	49.6	30.6	14.7	3.7	0.6
97.5°	82.0	63.0	44.1	26.3	12.2	3.1	0.6
100°	75.3	56.9	39.2	23.3	10.4	2.4	0.6
102.5°	68.6	51.4	34.9	20.2	9.2	1.8	0.6
105°	63.0	46.5	31.2	18.4	8.0	1.8	0.6
107.5°	57.5	42.2	28.2	15.9	6.7	1.2	0.6
110°	52.0	38.6	25.1	14.1	6.1	1.2	0.6

TEST NUMBER: P1213041

CATALOG NUMBER: 4SNLED-LD5-30SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	47.7	34.9	22.6	12.9	4.9	1.2	0.6
115°	43.5	31.2	20.2	11.0	4.3	0.6	0.6
117.5°	39.2	28.2	17.8	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°	28.8	20.2	12.2	6.1	1.8	0.6	0.6
127.5°	25.7	17.8	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°	17.8	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°	12.9	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)