

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-LD5-44SL-LW-UNV-L930-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-LD5-44SL-LW-UNV-L930-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
WIDE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

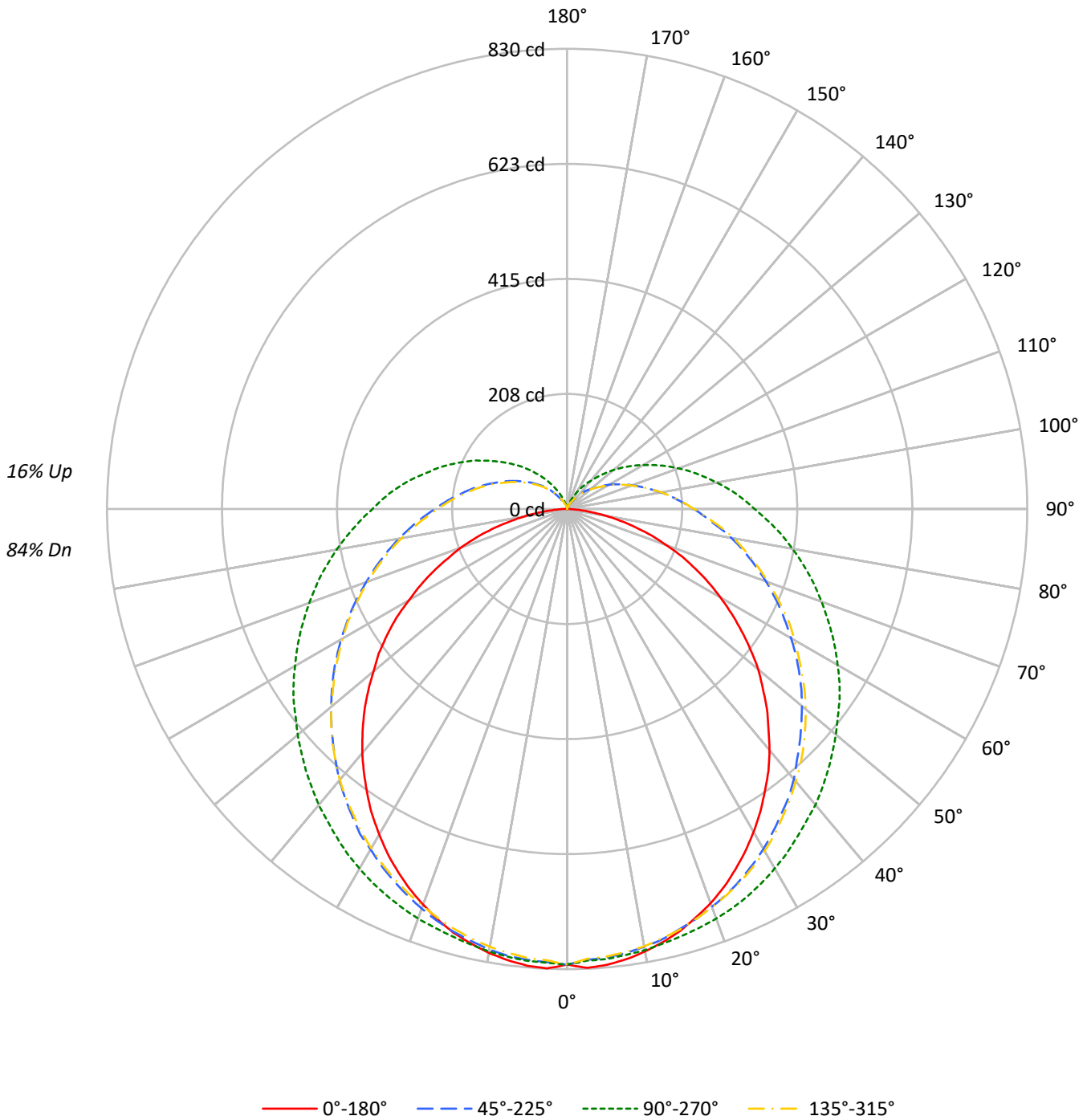
Lumens per Lamp: N/A  
Luminaire Lumens: 3570.0 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 38  
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	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°	6640	6640	6640	6640
5°	6676	6399	6689	6426
10°	6613	6217	6635	6237
15°	6537	6061	6566	6068
20°	6434	5948	6456	5948
25°	6307	5847	6345	5841
30°	6165	5743	6213	5743
35°	6000	5647	6066	5654
40°	5836	5591	5908	5591
45°	5648	5531	5735	5539
50°	5453	5497	5526	5511
55°	5179	5501	5342	5525
60°	4891	5518	5050	5552
65°	4566	5573	4769	5628
70°	4112	5676	4432	5756
75°	3587	5861	3926	5974
80°	2775	6137	3151	6278
85°	1660	6577	2070	6760



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.8	2.2
10°-20°	223.7	6.3
20°-30°	343.0	9.6
30°-40°	423.2	11.9
40°-50°	459.1	12.9
50°-60°	452.5	12.7
60°-70°	409.1	11.5
70°-80°	340.8	9.5
80°-90°	264.0	7.4
90°-100°	200.2	5.6
100°-110°	148.2	4.2
110°-120°	103.1	2.9
120°-130°	65.8	1.8
130°-140°	36.9	1.0
140°-150°	16.9	0.5
150°-160°	5.2	0.1
160°-170°	0.7	0.0
170°-180°	0.0	0.0
0°-30°	644.6	18.1
0°-40°	1067.7	29.9
0°-60°	1979.3	55.4
0°-90°	2993.2	83.8
90°-120°	451.4	12.6
90°-150°	570.9	16.0
90°-180°	577.0	16.2
0°-180°	3570.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	822	822	822	822	822	
5°	825	815	827	818	825	78
15°	788	797	791	798	788	222
25°	718	771	722	770	718	331
35°	622	723	628	724	622	389
45°	510	666	518	667	510	393
55°	384	600	396	602	384	344
65°	255	526	266	531	255	253
75°	128	451	140	459	128	136
85°	24	375	30	386	24	29
90°	1	338	2	351	1	1
95°	1	307	1	322	1	1
105°	1	244	1	258	1	1
115°	1	186	1	202	1	1
125°	1	134	1	148	1	1
135°	1	87	1	102	1	1
145°	1	50	1	62	1	1
155°	1	21	1	29	1	0
165°	1	4	1	5	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7
2.5°	828.6	828.6	827.8	826.0	826.9	829.5	827.8	823.4	820.8	813.9	815.6
5°	825.2	825.2	824.3	822.6	823.4	826.9	825.2	821.7	818.2	812.2	814.8
7.5°	819.1	819.1	818.2	816.5	818.2	821.7	820.0	816.5	813.9	807.8	810.4
10°	810.4	811.3	810.4	807.8	811.3	814.8	813.9	809.6	807.0	801.8	804.4
12.5°	800.0	800.9	800.0	799.2	800.9	806.1	804.4	800.9	799.2	794.8	797.4
15°	787.9	788.8	787.0	787.0	788.8	794.0	794.0	790.5	788.8	784.4	789.6
17.5°	772.3	773.2	772.3	772.3	774.0	779.2	780.1	778.4	776.6	774.9	780.1
20°	756.7	755.8	755.8	755.0	758.4	766.2	765.4	765.4	763.6	763.6	769.7
22.5°	738.5	738.5	737.6	737.6	742.0	748.9	748.9	750.6	748.9	752.4	757.6
25°	717.7	718.6	717.7	719.4	722.9	730.7	731.6	734.2	735.0	738.5	744.6
27.5°	696.0	696.9	696.0	697.8	703.8	709.9	714.2	717.7	718.6	723.8	731.6
30°	672.6	672.6	673.5	675.2	682.2	691.7	695.2	699.5	699.5	708.2	716.0
32.5°	648.4	648.4	648.4	651.8	659.6	670.9	675.2	680.4	682.2	690.8	699.5
35°	621.5	622.3	622.3	624.9	635.4	646.6	652.7	658.8	662.2	672.6	681.3
37.5°	596.3	598.1	595.5	598.9	613.7	623.2	630.2	636.2	642.3	656.2	663.1
40°	567.7	569.5	568.6	575.5	587.7	599.8	607.6	613.7	622.3	636.2	644.0
42.5°	537.4	539.1	540.9	548.7	561.7	573.8	583.3	591.1	601.5	613.7	626.7
45°	509.7	509.7	512.3	521.8	535.7	548.7	559.9	568.6	580.7	593.7	606.7
47.5°	478.5	479.3	482.8	494.1	508.8	524.4	534.8	546.1	559.1	572.9	587.7
50°	449.9	449.9	455.1	467.2	481.1	498.4	509.7	522.7	536.5	553.0	567.7
52.5°	416.9	418.7	426.5	437.7	455.9	471.5	484.5	498.4	514.9	532.2	548.7
55°	384.0	387.5	393.5	409.1	428.2	442.9	458.5	475.9	491.5	510.5	529.6
57.5°	351.9	354.5	364.0	379.7	399.6	417.8	434.3	450.7	469.8	488.9	508.8
60°	319.0	322.4	333.7	349.3	371.0	390.1	409.1	426.5	446.4	466.3	487.1
62.5°	287.8	290.4	303.4	321.6	343.2	364.0	383.1	403.9	425.6	444.7	465.5
65°	254.8	259.2	273.9	290.4	315.5	336.3	358.0	380.5	403.1	423.9	443.8
67.5°	224.5	227.1	242.7	261.8	286.9	310.3	332.8	357.1	380.5	402.2	422.1
70°	189.0	197.6	213.2	233.2	260.0	284.3	308.6	333.7	358.8	381.4	400.5
72.5°	159.5	166.4	183.8	205.4	231.4	260.0	285.2	312.0	337.2	360.6	380.5
75°	128.3	135.2	155.2	179.4	206.3	236.6	262.6	290.4	316.4	339.8	360.6
77.5°	97.9	106.6	128.3	153.4	182.9	214.1	241.0	268.7	295.6	320.7	341.5
80°	70.2	79.7	103.1	131.8	160.4	191.6	221.0	248.8	275.6	300.8	322.4
82.5°	45.1	55.5	80.6	109.2	139.6	170.8	201.1	228.8	255.7	280.8	303.4
85°	24.3	35.5	61.5	90.1	120.5	151.7	182.0	211.5	237.5	260.9	285.2
87.5°	6.9	20.8	45.9	74.5	105.7	134.4	163.8	193.3	219.3	244.4	266.1
90°	0.9	12.1	34.7	61.5	91.9	119.6	149.1	176.8	202.8	228.0	249.6
92.5°	0.9	7.8	26.9	51.1	78.9	107.5	137.0	163.8	188.1	213.2	234.9
95°	0.9	6.1	21.7	43.3	69.3	96.2	123.9	150.0	175.1	198.5	220.2
97.5°	0.9	4.3	17.3	37.3	60.7	85.8	112.7	138.7	163.0	185.5	205.4
100°	0.9	3.5	13.9	32.1	52.9	77.1	101.4	126.6	150.0	171.6	192.4
102.5°	0.9	2.6	12.1	26.9	46.8	68.5	91.9	115.3	137.8	158.6	179.4
105°	0.9	2.6	10.4	23.4	41.6	61.5	83.2	105.7	126.6	146.5	165.6
107.5°	0.9	1.7	8.7	19.9	36.4	55.5	75.4	97.1	116.1	135.2	153.4
110°	0.9	1.7	6.9	18.2	32.1	49.4	68.5	88.4	106.6	124.8	142.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.9	1.7	6.1	15.6	27.7	44.2	61.5	79.7	97.1	115.3	130.9
115°	0.9	1.7	5.2	13.9	26.0	38.1	55.5	71.9	89.3	105.7	120.5
117.5°	0.9	1.7	4.3	11.3	22.5	34.7	48.5	65.0	80.6	96.2	110.1
120°	0.9	1.7	3.5	10.4	19.9	31.2	43.3	58.1	72.8	87.5	102.3
122.5°	0.9	0.9	3.5	8.7	17.3	27.7	39.9	51.1	65.0	78.9	91.9
125°	0.9	0.9	3.5	7.8	14.7	25.1	35.5	45.9	58.1	70.2	81.5
127.5°	0.9	0.9	2.6	6.1	13.0	21.7	31.2	42.5	51.1	62.4	73.7
130°	0.9	0.9	2.6	5.2	11.3	18.2	27.7	37.3	47.7	55.5	65.0
132.5°	0.9	0.9	2.6	4.3	8.7	14.7	23.4	32.1	41.6	50.3	58.1
135°	0.9	0.9	1.7	3.5	6.9	12.1	19.1	26.9	36.4	45.1	52.9
137.5°	0.9	0.9	1.7	3.5	5.2	10.4	14.7	21.7	30.3	38.1	45.9
140°	0.9	0.9	1.7	2.6	4.3	7.8	12.1	17.3	24.3	31.2	39.9
142.5°	0.9	0.9	0.9	2.6	3.5	6.1	9.5	13.9	19.1	25.1	32.1
145°	0.9	0.9	0.9	2.6	3.5	4.3	7.8	11.3	14.7	19.1	25.1
147.5°	0.9	0.9	0.9	1.7	2.6	3.5	6.1	8.7	11.3	14.7	18.2
150°	0.9	0.9	0.9	1.7	2.6	3.5	4.3	6.1	8.7	12.1	14.7
152.5°	0.9	0.9	0.9	1.7	1.7	2.6	3.5	4.3	6.1	8.7	10.4
155°	0.9	0.9	0.9	0.9	1.7	2.6	3.5	3.5	4.3	6.1	7.8
157.5°	0.9	0.9	0.9	0.9	1.7	1.7	2.6	2.6	3.5	3.5	5.2
160°	0.9	0.9	0.9	0.9	0.9	1.7	1.7	2.6	2.6	2.6	2.6
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7	2.6	2.6
165°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7
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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7
2.5°	815.6	816.5	819.1	819.1	817.4	817.4	816.5	815.6	816.5	818.2	818.2
5°	813.9	814.8	817.4	818.2	816.5	815.6	815.6	814.8	815.6	817.4	817.4
7.5°	810.4	811.3	813.9	814.8	813.0	813.0	812.2	811.3	813.0	813.9	813.9
10°	805.2	806.1	809.6	810.4	809.6	808.7	808.7	807.8	808.7	810.4	810.4
12.5°	798.3	800.0	804.4	804.4	804.4	803.5	803.5	802.6	803.5	805.2	804.4
15°	790.5	794.0	797.4	799.2	799.2	799.2	798.3	797.4	799.2	800.0	799.2
17.5°	781.8	786.2	791.4	793.1	793.1	794.0	793.1	792.2	794.0	794.0	793.1
20°	773.2	777.5	782.7	784.4	786.2	787.0	787.0	786.2	787.0	787.9	787.0
22.5°	761.9	767.1	773.2	775.8	777.5	779.2	779.2	779.2	780.1	781.0	779.2
25°	749.8	755.8	762.8	765.4	768.8	769.7	770.6	770.6	771.4	772.3	769.7
27.5°	736.8	743.7	750.6	755.0	757.6	759.3	759.3	760.2	761.0	761.9	759.3
30°	721.2	731.6	737.6	741.1	744.6	747.2	748.0	748.9	749.8	750.6	748.0
32.5°	707.3	716.0	723.8	728.1	732.4	735.9	736.8	736.8	738.5	738.5	735.9
35°	690.8	701.2	709.0	713.4	718.6	721.2	722.9	722.9	724.6	724.6	722.0
37.5°	674.4	684.8	693.4	698.6	704.7	708.2	709.0	709.0	710.8	710.8	707.3
40°	657.0	668.3	677.8	683.9	689.1	693.4	694.3	696.9	696.9	696.0	692.6
42.5°	639.7	650.1	660.5	667.4	674.4	678.7	680.4	681.3	681.3	680.4	677.8
45°	620.6	632.8	642.3	651.0	657.9	662.2	664.8	665.7	665.7	664.0	661.4
47.5°	602.4	614.5	624.1	633.6	640.6	645.8	648.4	649.2	648.4	647.5	644.9
50°	583.3	597.2	606.7	616.3	623.2	627.6	631.9	632.8	631.9	631.0	625.8
52.5°	563.4	578.1	588.5	598.1	605.9	611.1	614.5	615.4	615.4	613.7	610.2
55°	543.5	556.5	569.5	579.9	588.5	593.7	598.1	599.8	598.1	596.3	592.0
57.5°	525.3	537.4	550.4	561.7	570.3	577.3	580.7	582.5	580.7	578.1	573.8
60°	503.6	516.6	531.3	541.7	551.3	558.2	559.9	563.4	561.7	559.1	554.7
62.5°	482.8	498.4	511.4	524.4	532.2	540.0	543.5	545.2	543.5	540.9	536.5
65°	461.1	478.5	491.5	504.5	513.1	520.9	525.3	526.1	524.4	521.8	517.5
67.5°	441.2	457.7	471.5	485.4	493.2	501.0	505.3	507.1	505.3	501.9	497.5
70°	421.3	437.7	454.2	464.6	474.1	482.8	485.4	488.0	486.3	482.8	477.6
72.5°	401.3	418.7	435.1	445.5	455.9	463.7	467.2	469.8	468.1	464.6	458.5
75°	380.5	398.7	415.2	426.5	436.9	444.7	448.1	450.7	449.0	445.5	438.6
77.5°	361.4	379.7	395.3	407.4	417.8	424.7	430.8	431.7	429.9	426.5	419.5
80°	341.5	359.7	376.2	388.3	398.7	405.7	410.0	412.6	410.9	407.4	400.5
82.5°	324.2	340.6	357.1	369.2	379.7	388.3	391.8	394.4	393.5	388.3	383.1
85°	305.1	324.2	337.2	350.2	360.6	369.2	371.8	375.3	374.4	370.1	363.2
87.5°	286.0	305.1	320.7	333.7	343.2	350.2	354.5	356.2	355.4	351.0	343.2
90°	270.4	287.8	303.4	317.2	325.0	332.8	337.2	338.0	338.0	332.8	326.8
92.5°	255.7	272.2	287.8	300.8	310.3	317.2	320.7	322.4	321.6	317.2	310.3
95°	239.2	257.4	272.2	285.2	294.7	301.6	305.1	306.8	306.0	301.6	294.7
97.5°	225.4	241.8	256.6	268.7	278.2	285.2	288.6	290.4	290.4	286.0	279.1
100°	211.5	228.0	241.8	254.0	262.6	269.6	273.0	273.9	273.0	269.6	262.6
102.5°	197.6	213.2	227.1	238.4	247.9	254.0	257.4	258.3	258.3	254.0	247.0
105°	183.8	199.4	212.4	224.5	232.3	238.4	241.0	243.6	242.7	239.2	232.3
107.5°	170.8	186.4	198.5	209.8	217.6	223.6	226.2	228.8	228.0	224.5	217.6
110°	158.6	173.4	184.6	195.9	202.8	208.9	213.2	214.1	212.4	208.9	202.8





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	147.4	160.4	171.6	182.0	189.8	194.2	197.6	199.4	197.6	194.2	189.8
115°	135.2	148.2	159.5	169.0	176.0	181.2	183.8	185.5	183.8	180.3	176.0
117.5°	123.9	136.1	147.4	156.9	163.0	167.3	169.9	171.6	169.9	167.3	163.0
120°	114.4	124.8	135.2	143.9	150.8	154.3	156.9	158.6	157.8	154.3	150.0
122.5°	103.1	114.4	123.9	132.6	138.7	142.2	143.9	145.6	144.8	142.2	137.8
125°	93.6	103.1	112.7	120.5	126.6	130.0	131.8	133.5	132.6	130.0	124.8
127.5°	83.2	93.6	101.4	109.2	113.5	118.7	119.6	121.3	120.5	117.9	113.5
130°	75.4	83.2	91.0	97.9	103.1	106.6	108.3	109.2	107.5	105.7	101.4
132.5°	65.9	74.5	81.5	87.5	91.0	94.5	96.2	97.1	97.1	94.5	91.0
135°	58.9	65.0	71.1	77.1	80.6	84.1	85.8	86.7	85.8	84.1	80.6
137.5°	52.9	58.1	62.4	67.6	71.9	73.7	75.4	75.4	74.5	73.7	71.1
140°	45.9	52.0	56.3	59.8	63.3	64.1	65.9	65.9	65.0	64.1	62.4
142.5°	39.0	44.2	48.5	52.9	55.5	57.2	58.1	58.9	58.1	57.2	54.6
145°	31.2	37.3	41.6	44.2	47.7	48.5	49.4	50.3	49.4	48.5	45.9
147.5°	24.3	29.5	33.8	37.3	39.9	40.7	41.6	42.5	41.6	39.9	39.0
150°	17.3	21.7	26.9	30.3	32.1	33.8	33.8	33.8	34.7	32.9	31.2
152.5°	13.9	15.6	19.1	22.5	25.1	26.0	26.9	26.9	26.0	26.0	24.3
155°	9.5	11.3	13.9	16.5	19.1	19.9	20.8	20.8	19.9	19.9	19.1
157.5°	6.1	7.8	9.5	11.3	13.9	14.7	15.6	15.6	15.6	14.7	13.9
160°	3.5	4.3	5.2	6.9	8.7	9.5	10.4	10.4	10.4	10.4	9.5
162.5°	2.6	2.6	2.6	3.5	4.3	5.2	6.1	6.1	6.1	6.1	5.2
165°	1.7	1.7	1.7	1.7	1.7	2.6	3.5	3.5	3.5	3.5	3.5
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-LD5-44SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7
2.5°	817.4	817.4	818.2	816.5	811.3	812.2	812.2	815.6	817.4	818.2	822.6
5°	815.6	815.6	817.4	814.8	810.4	810.4	810.4	813.9	814.8	816.5	820.0
7.5°	813.0	813.0	813.9	811.3	806.1	806.1	805.2	808.7	810.4	811.3	814.8
10°	808.7	808.7	809.6	807.0	800.9	800.9	800.0	802.6	803.5	805.2	807.8
12.5°	802.6	802.6	802.6	800.0	794.0	793.1	792.2	794.8	794.8	795.7	798.3
15°	797.4	795.7	795.7	793.1	787.0	785.3	783.6	784.4	786.2	785.3	787.0
17.5°	791.4	789.6	787.9	785.3	777.5	774.9	773.2	774.0	773.2	772.3	774.0
20°	784.4	781.8	781.0	776.6	768.8	764.5	761.0	759.3	760.2	757.6	758.4
22.5°	776.6	773.2	771.4	766.2	758.4	753.2	748.9	745.4	744.6	741.1	742.0
25°	767.1	762.8	760.2	755.8	747.2	741.1	735.9	730.7	728.1	723.8	722.9
27.5°	755.8	751.5	748.0	743.7	735.0	727.2	721.2	714.2	710.8	705.6	703.0
30°	744.6	739.4	734.2	730.7	721.2	712.5	703.0	696.9	691.7	685.6	681.3
32.5°	730.7	725.5	720.3	715.1	706.4	696.0	688.2	678.7	672.6	665.7	660.5
35°	716.8	709.9	704.7	697.8	690.0	677.8	668.3	658.8	651.0	643.2	637.1
37.5°	701.2	696.0	688.2	682.2	672.6	660.5	650.1	638.0	631.0	620.6	612.8
40°	686.5	680.4	672.6	664.8	655.3	641.4	630.2	616.3	608.5	596.3	588.5
42.5°	671.8	663.1	655.3	646.6	636.2	623.2	609.3	595.5	585.1	573.8	562.5
45°	655.3	645.8	636.2	626.7	616.3	603.3	588.5	573.8	560.8	550.4	536.5
47.5°	638.0	628.4	617.1	606.7	595.5	582.5	566.9	551.3	537.4	525.3	510.5
50°	620.6	611.1	598.9	587.7	574.7	561.7	545.2	527.0	512.3	496.7	483.7
52.5°	602.4	592.9	581.6	566.9	553.0	540.0	522.7	503.6	487.1	474.1	457.7
55°	584.2	574.7	561.7	546.9	533.1	516.6	500.1	481.1	462.9	447.3	430.8
57.5°	565.1	556.5	541.7	529.6	512.3	494.9	477.6	459.4	439.5	421.3	402.2
60°	546.1	536.5	522.7	507.9	490.6	473.3	455.1	435.1	414.3	394.4	377.1
62.5°	528.7	516.6	503.6	488.0	469.8	453.3	432.5	410.9	390.1	369.2	348.4
65°	508.8	495.8	483.7	468.1	449.0	429.9	409.1	387.5	364.9	342.4	321.6
67.5°	488.9	475.9	462.9	447.3	427.3	407.4	385.7	364.0	338.9	317.2	293.0
70°	468.9	458.5	442.1	425.6	407.4	385.7	364.0	340.6	314.6	291.2	266.1
72.5°	449.0	438.6	422.1	404.8	387.5	364.9	341.5	318.1	293.8	267.0	240.1
75°	429.9	416.9	402.2	385.7	367.5	344.1	320.7	296.4	267.8	242.7	215.0
77.5°	411.7	399.6	384.9	366.6	346.7	324.2	299.9	274.8	246.2	219.3	189.0
80°	391.8	379.7	364.9	346.7	326.8	305.1	279.1	253.1	225.4	195.9	164.7
82.5°	372.7	361.4	345.0	328.5	306.8	285.2	259.2	233.2	203.7	175.1	144.8
85°	352.8	341.5	325.9	308.6	287.8	264.4	240.1	214.1	184.6	155.2	124.8
87.5°	335.4	322.4	306.8	289.5	268.7	246.2	222.8	195.0	166.4	137.8	106.6
90°	317.2	305.1	289.5	272.2	251.4	228.8	204.6	178.6	150.8	121.3	91.9
92.5°	301.6	288.6	273.9	256.6	235.8	214.1	189.8	163.8	137.0	108.3	79.7
95°	286.0	273.0	259.2	241.8	221.0	199.4	175.1	150.0	123.9	96.2	69.3
97.5°	268.7	257.4	243.6	227.1	206.3	185.5	162.1	137.8	112.7	85.8	60.7
100°	254.8	241.8	228.8	211.5	192.4	172.5	149.1	125.7	101.4	76.3	52.9
102.5°	239.2	227.1	214.1	197.6	178.6	158.6	137.0	114.4	91.9	68.5	45.9
105°	224.5	213.2	199.4	183.8	165.6	146.5	125.7	104.9	83.2	60.7	40.7
107.5°	209.8	198.5	185.5	170.8	153.4	134.4	115.3	94.5	74.5	54.6	36.4
110°	195.0	184.6	172.5	157.8	141.3	123.9	105.7	86.7	66.7	48.5	32.1



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	182.0	171.6	159.5	145.6	130.0	113.5	96.2	78.0	59.8	43.3	27.7
115°	169.0	159.5	147.4	135.2	119.6	104.0	87.5	70.2	53.7	39.0	24.3
117.5°	156.0	146.5	135.2	123.1	109.2	94.5	78.9	62.4	48.5	34.7	21.7
120°	143.0	134.4	123.9	112.7	100.5	85.8	70.2	56.3	43.3	30.3	19.1
122.5°	130.9	123.1	113.5	103.1	90.1	76.3	63.3	51.1	39.0	26.9	15.6
125°	119.6	111.8	103.1	92.7	80.6	68.5	57.2	45.9	33.8	23.4	13.0
127.5°	108.3	100.5	91.9	82.3	72.8	61.5	51.1	40.7	30.3	20.8	11.3
130°	97.1	90.1	82.3	74.5	65.0	54.6	45.9	35.5	26.0	16.5	9.5
132.5°	85.8	80.6	73.7	65.9	57.2	49.4	39.9	31.2	22.5	14.7	8.7
135°	76.3	71.1	65.0	58.1	51.1	43.3	34.7	26.9	19.1	12.1	6.9
137.5°	67.6	63.3	57.2	51.1	45.1	37.3	30.3	22.5	15.6	10.4	5.2
140°	59.8	55.5	50.3	44.2	39.0	32.1	25.1	18.2	13.9	8.7	4.3
142.5°	52.0	47.7	43.3	38.1	32.9	26.9	20.8	15.6	11.3	6.9	4.3
145°	44.2	40.7	36.4	32.1	26.9	21.7	17.3	13.0	8.7	5.2	3.5
147.5°	36.4	33.8	29.5	26.0	21.7	17.3	13.9	10.4	6.9	4.3	2.6
150°	29.5	26.9	23.4	19.9	17.3	13.9	11.3	7.8	5.2	4.3	2.6
152.5°	22.5	20.8	18.2	16.5	13.9	10.4	7.8	6.1	4.3	3.5	1.7
155°	18.2	16.5	14.7	12.1	10.4	7.8	6.1	4.3	3.5	2.6	1.7
157.5°	13.0	12.1	10.4	8.7	6.9	5.2	4.3	4.3	2.6	1.7	0.9
160°	8.7	7.8	6.9	5.2	4.3	4.3	3.5	2.6	1.7	1.7	0.9
162.5°	5.2	4.3	4.3	4.3	3.5	3.5	2.6	1.7	1.7	0.9	0.9
165°	3.5	3.5	3.5	2.6	2.6	2.6	1.7	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-LD5-44SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7
2.5°	822.6	820.0	823.4	829.5	830.4	829.5	827.8	830.4	833.8	833.0	826.9
5°	820.8	817.4	820.8	826.9	826.9	826.0	825.2	827.8	831.2	830.4	825.2
7.5°	815.6	812.2	815.6	820.8	821.7	820.0	820.0	822.6	826.0	825.2	820.8
10°	808.7	805.2	807.0	813.0	814.8	813.0	813.0	815.6	820.0	819.1	813.9
12.5°	798.3	795.7	797.4	802.6	804.4	803.5	802.6	806.1	810.4	810.4	805.2
15°	787.0	783.6	785.3	791.4	792.2	790.5	791.4	794.0	799.2	799.2	794.8
17.5°	774.0	769.7	772.3	776.6	777.5	777.5	777.5	781.0	787.0	786.2	782.7
20°	759.3	753.2	755.0	759.3	761.0	761.0	761.0	767.1	771.4	771.4	768.0
22.5°	742.0	737.6	737.6	742.0	744.6	743.7	743.7	748.9	755.0	754.1	754.1
25°	722.0	718.6	716.8	722.0	722.9	723.8	725.5	730.7	737.6	737.6	738.5
27.5°	701.2	697.8	696.9	701.2	702.1	703.0	704.7	710.8	717.7	718.6	720.3
30°	681.3	676.1	674.4	677.8	679.6	680.4	680.4	690.0	696.0	698.6	702.1
32.5°	657.9	652.7	648.4	654.4	655.3	657.0	657.9	667.4	674.4	678.7	683.9
35°	634.5	625.8	624.1	628.4	630.2	631.0	632.8	643.2	652.7	656.2	663.1
37.5°	608.5	602.4	597.2	601.5	603.3	604.1	609.3	618.9	628.4	633.6	640.6
40°	584.2	576.4	572.1	574.7	576.4	577.3	583.3	593.7	605.0	611.1	619.7
42.5°	557.3	546.9	543.5	546.1	546.9	549.5	554.7	568.6	579.9	588.5	595.5
45°	530.5	522.7	514.9	517.5	518.3	520.1	527.9	542.6	554.7	565.1	572.9
47.5°	502.7	493.2	485.4	487.1	490.6	491.5	500.1	517.5	528.7	540.0	550.4
50°	475.0	462.0	455.9	455.9	457.7	462.0	473.3	490.6	502.7	515.7	527.0
52.5°	446.4	434.3	427.3	428.2	429.9	435.1	445.5	462.9	476.7	490.6	504.5
55°	417.8	404.8	397.9	396.1	397.9	404.8	416.9	435.1	449.0	465.5	480.2
57.5°	389.2	373.6	367.5	364.9	366.6	375.3	387.5	406.5	423.9	439.5	456.8
60°	358.0	345.8	335.4	329.4	333.7	345.0	358.0	377.9	396.1	413.5	432.5
62.5°	331.1	315.5	304.2	298.2	302.5	312.0	330.2	349.3	369.2	389.2	408.3
65°	300.8	285.2	272.2	266.1	270.4	281.7	299.9	320.7	342.4	362.3	384.9
67.5°	271.3	254.8	239.2	233.2	238.4	250.5	270.4	293.8	317.2	338.0	362.3
70°	242.7	224.5	208.0	203.7	207.2	223.6	242.7	266.1	290.4	314.6	339.8
72.5°	216.7	194.2	176.8	171.6	176.0	194.2	215.8	240.1	266.1	292.1	319.0
75°	186.4	165.6	146.5	140.4	145.6	162.1	189.0	215.0	242.7	270.4	295.6
77.5°	162.1	137.8	117.9	108.3	117.0	137.8	163.8	191.6	220.2	248.8	277.4
80°	137.0	111.8	90.1	79.7	89.3	111.8	137.8	168.2	200.2	228.8	254.8
82.5°	114.4	87.5	65.0	53.7	64.1	89.3	117.9	148.2	179.4	208.0	238.4
85°	93.6	65.9	42.5	30.3	45.1	67.6	97.9	129.2	161.2	190.7	220.2
87.5°	76.3	49.4	26.0	13.0	27.7	52.9	81.5	112.7	144.8	174.2	202.0
90°	62.4	35.5	13.9	1.7	16.5	39.9	67.6	97.9	128.3	158.6	186.4
92.5°	51.1	26.9	7.8	0.9	10.4	32.1	58.1	86.7	116.1	145.6	172.5
95°	42.5	20.8	5.2	0.9	7.8	25.1	49.4	77.1	104.9	133.5	160.4
97.5°	36.4	17.3	4.3	0.9	6.1	21.7	42.5	68.5	95.3	122.2	148.2
100°	31.2	13.9	3.5	0.9	5.2	18.2	37.3	60.7	85.8	111.8	137.0
102.5°	26.9	11.3	2.6	0.9	4.3	15.6	32.9	54.6	77.1	102.3	126.6
105°	23.4	9.5	2.6	0.9	3.5	13.9	29.5	48.5	71.1	93.6	117.0
107.5°	19.9	7.8	1.7	0.9	2.6	11.3	26.0	44.2	64.1	85.8	107.5
110°	17.3	6.9	1.7	0.9	2.6	10.4	22.5	39.9	58.1	78.0	98.8



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	14.7	5.2	1.7	0.9	1.7	8.7	19.9	35.5	52.9	71.1	91.0
115°	13.0	4.3	0.9	0.9	1.7	7.8	18.2	32.1	47.7	65.0	83.2
117.5°	10.4	3.5	0.9	0.9	0.9	6.1	15.6	28.6	43.3	59.8	76.3
120°	8.7	3.5	0.9	0.9	0.9	5.2	13.9	25.1	39.0	53.7	69.3
122.5°	7.8	2.6	0.9	0.9	0.9	4.3	12.1	22.5	34.7	48.5	63.3
125°	6.9	2.6	0.9	0.9	0.9	3.5	10.4	19.9	31.2	43.3	57.2
127.5°	5.2	2.6	0.9	0.9	0.9	2.6	9.5	17.3	27.7	39.0	51.1
130°	4.3	1.7	0.9	0.9	0.9	2.6	7.8	15.6	24.3	34.7	45.9
132.5°	3.5	1.7	0.9	0.9	0.9	1.7	6.1	12.1	20.8	30.3	40.7
135°	3.5	1.7	0.9	0.9	0.9	1.7	4.3	10.4	17.3	26.0	34.7
137.5°	3.5	0.9	0.9	0.9	0.9	1.7	3.5	7.8	13.9	20.8	28.6
140°	2.6	0.9	0.9	0.9	0.9	0.9	2.6	6.1	11.3	17.3	24.3
142.5°	2.6	0.9	0.9	0.9	0.9	0.9	2.6	4.3	8.7	13.9	19.1
145°	1.7	0.9	0.9	0.9	0.9	0.9	1.7	3.5	6.9	10.4	15.6
147.5°	1.7	0.9	0.9	0.9	0.9	0.9	1.7	2.6	5.2	8.7	12.1
150°	1.7	0.9	0.9	0.9	0.9	0.9	1.7	2.6	3.5	6.1	9.5
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	2.6	4.3	6.1
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	2.6	3.5	4.3
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	2.6	3.5
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	2.6
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7
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-LD5-44SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7
2.5°	824.3	818.2	820.0	819.1	820.8	823.4	823.4	822.6	822.6	820.8	819.1
5°	822.6	816.5	819.1	818.2	820.0	822.6	822.6	821.7	821.7	819.1	818.2
7.5°	817.4	813.0	814.8	814.8	816.5	819.1	819.1	818.2	818.2	815.6	814.8
10°	812.2	807.0	809.6	809.6	811.3	814.8	814.8	813.9	813.9	811.3	810.4
12.5°	803.5	798.3	802.6	803.5	805.2	808.7	807.8	807.8	807.8	805.2	804.4
15°	793.1	789.6	794.0	794.8	797.4	801.8	801.8	801.8	801.8	799.2	798.3
17.5°	781.8	779.2	783.6	785.3	788.8	793.1	793.1	794.0	794.8	793.1	792.2
20°	768.8	767.1	771.4	774.9	780.1	784.4	786.2	787.0	788.8	787.0	786.2
22.5°	754.1	754.1	760.2	763.6	769.7	774.0	776.6	779.2	781.0	779.2	778.4
25°	737.6	740.2	746.3	752.4	759.3	763.6	766.2	769.7	771.4	770.6	769.7
27.5°	722.0	725.5	733.3	739.4	745.4	752.4	755.0	759.3	761.0	761.0	760.2
30°	703.8	709.0	717.7	724.6	732.4	739.4	742.8	747.2	749.8	748.0	748.9
32.5°	686.5	695.2	702.1	709.9	718.6	725.5	729.8	735.0	737.6	736.8	737.6
35°	667.4	676.1	685.6	693.4	703.8	710.8	716.8	721.2	724.6	723.8	723.8
37.5°	646.6	657.9	667.4	677.8	687.4	695.2	701.2	706.4	709.9	709.9	709.9
40°	626.7	638.8	648.4	660.5	672.6	679.6	686.5	691.7	695.2	696.0	696.9
42.5°	605.0	618.0	629.3	642.3	654.4	663.1	670.9	677.0	680.4	682.2	681.3
45°	585.1	597.2	610.2	624.9	636.2	644.9	654.4	661.4	664.8	665.7	666.6
47.5°	562.5	576.4	591.1	605.9	617.1	628.4	637.1	644.0	647.5	650.1	650.1
50°	540.9	555.6	572.1	587.7	599.8	611.1	619.7	627.6	631.9	633.6	634.5
52.5°	520.9	534.8	552.1	567.7	579.9	591.1	602.4	611.1	615.4	617.1	617.1
55°	496.7	514.0	533.1	547.8	560.8	573.8	585.1	593.7	598.1	600.7	602.4
57.5°	474.1	492.3	512.3	527.9	543.5	555.6	566.0	577.3	580.7	584.2	585.1
60°	452.5	470.7	489.7	507.1	522.7	535.7	547.8	557.3	563.4	565.1	566.9
62.5°	429.9	449.0	468.9	486.3	502.7	518.3	529.6	538.3	545.2	547.8	549.5
65°	408.3	428.2	448.1	466.3	483.7	499.3	510.5	519.2	526.1	530.5	531.3
67.5°	384.9	406.5	427.3	446.4	463.7	480.2	491.5	500.1	507.1	512.3	513.1
70°	363.2	385.7	406.5	427.3	444.7	461.1	473.3	481.9	489.7	493.2	494.9
72.5°	342.4	365.8	387.5	408.3	425.6	442.1	455.1	463.7	471.5	475.9	476.7
75°	322.4	345.8	369.2	389.2	407.4	423.9	436.9	446.4	453.3	457.7	459.4
77.5°	302.5	326.8	350.2	370.1	389.2	405.7	416.9	428.2	435.1	440.3	440.3
80°	282.6	307.7	332.0	351.9	371.0	385.7	398.7	410.0	416.9	422.1	422.1
82.5°	265.2	289.5	312.9	332.8	351.9	368.4	381.4	391.8	399.6	403.1	403.9
85°	245.3	272.2	293.8	315.5	333.7	349.3	362.3	373.6	380.5	384.0	385.7
87.5°	228.8	254.8	278.2	297.3	315.5	331.1	345.8	355.4	362.3	366.6	368.4
90°	213.2	238.4	261.8	280.8	299.9	314.6	328.5	338.0	345.8	349.3	351.0
92.5°	199.4	224.5	247.0	266.1	284.3	300.8	313.8	323.3	330.2	333.7	336.3
95°	186.4	210.6	232.3	253.1	270.4	285.2	299.0	308.6	316.4	319.0	321.6
97.5°	173.4	196.8	218.4	238.4	256.6	270.4	283.4	293.0	299.0	303.4	306.0
100°	162.1	184.6	205.4	224.5	241.8	254.8	268.7	277.4	283.4	286.9	290.4
102.5°	150.0	172.5	192.4	210.6	228.8	241.0	254.0	262.6	267.8	273.9	273.9
105°	139.6	160.4	180.3	197.6	213.2	228.0	239.2	247.9	254.0	258.3	258.3
107.5°	128.3	149.1	168.2	186.4	201.1	215.0	225.4	233.2	240.1	242.7	245.3
110°	119.6	137.8	156.9	174.2	188.1	201.1	211.5	220.2	226.2	228.8	230.6



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	109.2	128.3	145.6	162.1	176.0	188.1	198.5	205.4	211.5	215.0	215.8
115°	100.5	118.7	134.4	150.0	164.7	175.1	184.6	191.6	197.6	200.2	202.0
117.5°	92.7	109.2	124.8	137.8	151.7	163.0	172.5	178.6	183.8	187.2	189.0
120°	84.9	100.5	114.4	127.4	140.4	150.8	159.5	165.6	171.6	174.2	174.2
122.5°	77.1	91.9	104.9	117.0	129.2	138.7	148.2	153.4	158.6	161.2	161.2
125°	70.2	84.1	96.2	107.5	118.7	127.4	135.2	141.3	146.5	148.2	148.2
127.5°	63.3	76.3	87.5	97.9	107.5	116.1	123.9	130.0	134.4	136.1	136.1
130°	57.2	68.5	78.9	89.3	98.8	105.7	113.5	118.7	121.3	123.9	124.8
132.5°	51.1	61.5	71.1	79.7	89.3	96.2	102.3	107.5	110.1	112.7	113.5
135°	45.1	54.6	63.3	71.9	79.7	86.7	91.9	96.2	99.7	101.4	102.3
137.5°	38.1	48.5	56.3	63.3	71.9	77.1	83.2	85.8	89.3	91.0	91.0
140°	32.1	39.9	48.5	55.5	62.4	67.6	72.8	77.1	79.7	80.6	80.6
142.5°	26.0	32.9	39.9	48.5	54.6	58.9	64.1	67.6	69.3	70.2	71.1
145°	20.8	26.0	32.1	39.9	46.8	52.0	54.6	58.1	59.8	60.7	61.5
147.5°	15.6	20.8	26.0	31.2	38.1	43.3	45.9	49.4	51.1	52.0	52.0
150°	12.1	15.6	19.1	24.3	29.5	35.5	39.0	41.6	42.5	43.3	43.3
152.5°	8.7	12.1	14.7	18.2	21.7	26.9	32.1	33.8	34.7	35.5	35.5
155°	6.1	8.7	10.4	13.0	15.6	19.9	24.3	26.9	27.7	28.6	28.6
157.5°	4.3	6.1	6.9	9.5	11.3	13.0	16.5	20.8	21.7	21.7	21.7
160°	2.6	3.5	4.3	6.1	6.9	8.7	10.4	13.0	15.6	15.6	15.6
162.5°	1.7	2.6	2.6	3.5	3.5	5.2	6.1	6.9	9.5	10.4	10.4
165°	0.9	1.7	1.7	1.7	1.7	1.7	2.6	2.6	4.3	5.2	5.2
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-LD5-44SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7
2.5°	820.0	821.7	820.8	820.8	820.8	822.6	820.8	813.0	814.8	816.5	818.2
5°	819.1	820.0	820.0	819.1	819.1	820.8	819.1	811.3	813.0	814.8	815.6
7.5°	815.6	816.5	816.5	816.5	815.6	817.4	814.8	807.8	807.8	809.6	810.4
10°	811.3	813.0	812.2	811.3	811.3	811.3	809.6	801.8	801.8	802.6	803.5
12.5°	806.1	806.1	806.1	805.2	804.4	804.4	802.6	794.8	794.0	795.7	794.8
15°	799.2	800.9	799.2	798.3	796.6	796.6	794.0	786.2	784.4	785.3	784.4
17.5°	793.1	794.0	792.2	790.5	788.8	787.9	785.3	776.6	774.0	774.9	773.2
20°	787.0	787.0	785.3	783.6	781.0	778.4	774.9	766.2	761.9	761.9	758.4
22.5°	779.2	779.2	777.5	774.9	772.3	768.8	765.4	756.7	749.8	748.0	745.4
25°	770.6	769.7	768.8	766.2	761.0	757.6	754.1	744.6	736.8	733.3	729.0
27.5°	760.2	760.2	757.6	755.0	749.8	745.4	741.1	732.4	722.0	717.7	711.6
30°	748.9	748.9	746.3	742.8	737.6	732.4	727.2	716.8	706.4	700.4	693.4
32.5°	737.6	736.8	734.2	730.7	725.5	717.7	713.4	703.0	690.8	683.9	674.4
35°	723.8	722.9	720.3	716.0	709.0	703.0	696.0	686.5	672.6	664.0	653.6
37.5°	709.9	709.0	707.3	701.2	694.3	687.4	678.7	669.2	656.2	644.9	634.5
40°	696.0	695.2	691.7	687.4	678.7	670.0	661.4	651.8	638.0	624.9	613.7
42.5°	681.3	680.4	676.1	670.9	661.4	652.7	642.3	631.9	618.0	602.4	591.1
45°	666.6	664.8	660.5	654.4	644.0	634.5	624.1	611.9	598.1	583.3	568.6
47.5°	651.0	648.4	644.0	635.4	626.7	616.3	604.1	591.1	577.3	560.8	545.2
50°	633.6	631.9	626.7	618.9	608.5	598.1	584.2	571.2	554.7	539.1	520.1
52.5°	617.1	613.7	609.3	600.7	590.3	579.0	564.3	548.7	532.2	517.5	497.5
55°	599.8	598.1	592.0	585.1	572.1	559.1	545.2	528.7	510.5	493.2	474.1
57.5°	583.3	579.9	574.7	565.1	553.9	540.9	526.1	508.8	488.9	470.7	449.9
60°	566.9	561.7	555.6	546.9	534.8	520.9	505.3	487.1	467.2	447.3	425.6
62.5°	548.7	544.3	537.4	528.7	516.6	501.9	485.4	466.3	447.3	426.5	403.1
65°	530.5	526.1	519.2	510.5	498.4	481.9	464.6	445.5	423.9	403.9	378.8
67.5°	512.3	507.9	500.1	490.6	478.5	462.9	444.7	424.7	403.1	381.4	355.4
70°	494.1	488.9	481.9	471.5	459.4	442.9	424.7	403.9	382.3	358.8	332.8
72.5°	475.9	471.5	462.9	453.3	440.3	423.9	405.7	384.9	362.3	338.0	312.0
75°	457.7	452.5	446.4	435.1	421.3	405.7	386.6	365.8	341.5	318.1	291.2
77.5°	439.5	435.1	427.3	416.1	403.1	386.6	367.5	346.7	322.4	298.2	269.6
80°	421.3	416.1	410.0	399.6	384.9	368.4	348.4	327.6	303.4	278.2	249.6
82.5°	403.1	397.9	390.9	380.5	366.6	350.2	331.1	308.6	284.3	258.3	231.4
85°	384.9	380.5	372.7	362.3	347.6	331.1	312.0	292.1	266.1	240.1	213.2
87.5°	366.6	362.3	354.5	344.1	330.2	313.8	294.7	273.9	248.8	224.5	195.0
90°	349.3	345.8	338.0	327.6	313.8	297.3	280.0	257.4	233.2	208.9	181.2
92.5°	333.7	330.2	323.3	312.9	300.8	282.6	265.2	243.6	219.3	194.2	167.3
95°	319.8	315.5	308.6	299.0	284.3	268.7	251.4	229.7	206.3	181.2	155.2
97.5°	304.2	299.9	293.0	282.6	270.4	254.0	236.6	215.8	192.4	169.0	143.0
100°	288.6	284.3	276.5	267.8	255.7	239.2	222.8	202.0	180.3	157.8	132.6
102.5°	273.0	268.7	261.8	253.1	241.0	226.2	209.8	189.8	168.2	145.6	122.2
105°	258.3	254.0	247.0	238.4	227.1	212.4	195.0	177.7	156.9	135.2	112.7
107.5°	243.6	239.2	233.2	224.5	213.2	199.4	182.9	164.7	145.6	124.8	103.1
110°	228.8	225.4	218.4	210.6	199.4	185.5	170.8	153.4	134.4	115.3	94.5





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	215.0	211.5	204.6	195.9	186.4	173.4	158.6	142.2	123.9	105.7	85.8
115°	201.1	196.8	190.7	182.9	173.4	161.2	147.4	132.6	114.4	97.1	78.9
117.5°	187.2	183.8	177.7	169.9	161.2	149.1	136.1	122.2	104.9	88.4	71.9
120°	173.4	170.8	164.7	157.8	149.1	137.8	125.7	111.8	96.2	80.6	65.0
122.5°	160.4	157.8	151.7	145.6	137.0	126.6	115.3	102.3	88.4	73.7	59.8
125°	148.2	144.8	139.6	133.5	125.7	116.1	104.9	92.7	79.7	66.7	53.7
127.5°	135.2	132.6	129.2	122.2	114.4	105.7	95.3	84.9	72.8	60.7	48.5
130°	124.8	121.3	117.0	111.8	104.9	96.2	86.7	76.3	65.9	54.6	42.5
132.5°	112.7	109.2	105.7	100.5	94.5	86.7	78.0	68.5	58.9	48.5	38.1
135°	101.4	98.8	95.3	90.1	84.1	78.0	69.3	60.7	52.0	42.5	33.8
137.5°	91.0	88.4	84.9	81.5	75.4	69.3	61.5	53.7	45.9	37.3	29.5
140°	80.6	78.9	75.4	71.9	66.7	60.7	53.7	46.8	39.9	32.1	25.1
142.5°	70.2	68.5	65.9	62.4	58.1	52.9	46.8	40.7	33.8	27.7	21.7
145°	60.7	59.8	57.2	53.7	50.3	45.1	39.9	34.7	28.6	23.4	17.3
147.5°	51.1	50.3	48.5	45.9	42.5	38.1	33.8	28.6	24.3	19.1	13.9
150°	42.5	41.6	40.7	37.3	35.5	31.2	27.7	23.4	19.9	14.7	11.3
152.5°	34.7	34.7	32.9	30.3	28.6	25.1	22.5	19.1	15.6	12.1	8.7
155°	27.7	26.9	26.0	24.3	22.5	19.9	17.3	14.7	12.1	8.7	6.1
157.5°	21.7	20.8	19.9	18.2	16.5	15.6	13.0	10.4	7.8	6.1	4.3
160°	15.6	14.7	13.9	13.0	12.1	10.4	8.7	6.9	5.2	3.5	2.6
162.5°	10.4	9.5	9.5	8.7	7.8	6.1	5.2	4.3	3.5	2.6	1.7
165°	5.2	5.2	4.3	4.3	3.5	2.6	2.6	2.6	1.7	1.7	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-LD5-44SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	821.7	821.7	821.7	821.7	821.7	821.7	821.7
2.5°	817.4	817.4	820.8	820.0	817.4	822.6	828.6
5°	814.8	814.8	817.4	817.4	814.8	820.0	825.2
7.5°	810.4	809.6	812.2	812.2	808.7	813.0	819.1
10°	802.6	801.8	804.4	804.4	800.9	805.2	810.4
12.5°	794.0	792.2	794.8	794.0	790.5	794.8	800.0
15°	782.7	781.8	783.6	781.8	778.4	782.7	787.9
17.5°	771.4	768.8	769.7	769.7	763.6	768.0	772.3
20°	756.7	753.2	754.1	753.2	748.9	751.5	756.7
22.5°	742.0	736.8	736.8	735.9	730.7	734.2	738.5
25°	723.8	717.7	717.7	716.8	710.8	713.4	717.7
27.5°	705.6	699.5	696.9	696.0	690.0	690.0	696.0
30°	686.5	677.8	676.1	673.5	667.4	667.4	672.6
32.5°	668.3	656.2	652.7	649.2	643.2	642.3	648.4
35°	644.0	634.5	628.4	624.9	618.0	616.3	621.5
37.5°	624.1	611.9	603.3	598.9	592.0	589.4	596.3
40°	602.4	589.4	578.1	575.5	565.1	561.7	567.7
42.5°	578.1	564.3	553.0	547.8	540.0	536.5	537.4
45°	553.9	539.1	527.0	520.1	512.3	506.2	509.7
47.5°	528.7	515.7	501.0	490.6	481.1	476.7	478.5
50°	503.6	488.0	474.1	462.9	451.6	446.4	449.9
52.5°	478.5	462.0	446.4	434.3	421.3	416.1	416.9
55°	454.2	436.9	418.7	405.7	393.5	385.7	384.0
57.5°	429.9	410.9	391.8	377.1	361.4	354.5	351.9
60°	403.9	384.0	364.0	346.7	330.2	322.4	319.0
62.5°	379.7	358.0	335.4	317.2	300.8	290.4	287.8
65°	356.2	331.1	308.6	287.8	269.6	258.3	254.8
67.5°	331.1	305.1	280.8	258.3	241.0	226.2	224.5
70°	307.7	280.0	253.1	229.7	210.6	195.9	189.0
72.5°	284.3	255.7	228.0	202.8	178.6	164.7	159.5
75°	261.8	232.3	202.8	176.8	150.0	133.5	128.3
77.5°	241.0	210.6	179.4	150.8	125.7	104.9	97.9
80°	221.0	189.8	156.9	127.4	100.5	78.0	70.2
82.5°	200.2	170.8	137.0	105.7	78.0	54.6	45.1
85°	182.0	152.6	118.7	87.5	59.8	34.7	24.3
87.5°	167.3	135.2	104.9	73.7	45.1	19.9	6.9
90°	152.6	121.3	91.0	60.7	33.8	11.3	0.9
92.5°	139.6	110.1	79.7	52.0	26.0	7.8	0.9
95°	127.4	98.8	70.2	43.3	20.8	5.2	0.9
97.5°	116.1	89.3	62.4	37.3	17.3	4.3	0.9
100°	106.6	80.6	55.5	32.9	14.7	3.5	0.9
102.5°	97.1	72.8	49.4	28.6	13.0	2.6	0.9
105°	89.3	65.9	44.2	26.0	11.3	2.6	0.9
107.5°	81.5	59.8	39.9	22.5	9.5	1.7	0.9
110°	73.7	54.6	35.5	19.9	8.7	1.7	0.9



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	67.6	49.4	32.1	18.2	6.9	1.7	0.9
115°	61.5	44.2	28.6	15.6	6.1	0.9	0.9
117.5°	55.5	39.9	25.1	13.9	5.2	0.9	0.9
120°	50.3	35.5	22.5	12.1	4.3	0.9	0.9
122.5°	45.1	32.1	19.9	10.4	3.5	0.9	0.9
125°	40.7	28.6	17.3	8.7	2.6	0.9	0.9
127.5°	36.4	25.1	15.6	7.8	2.6	0.9	0.9
130°	32.1	22.5	13.0	6.1	1.7	0.9	0.9
132.5°	28.6	19.1	11.3	5.2	1.7	0.9	0.9
135°	25.1	16.5	9.5	3.5	1.7	0.9	0.9
137.5°	21.7	13.9	7.8	2.6	0.9	0.9	0.9
140°	18.2	12.1	6.1	2.6	0.9	0.9	0.9
142.5°	15.6	9.5	4.3	1.7	0.9	0.9	0.9
145°	12.1	7.8	3.5	1.7	0.9	0.9	0.9
147.5°	9.5	6.1	2.6	1.7	0.9	0.9	0.9
150°	6.9	4.3	2.6	0.9	0.9	0.9	0.9
152.5°	5.2	3.5	1.7	0.9	0.9	0.9	0.9
155°	3.5	2.6	1.7	0.9	0.9	0.9	0.9
157.5°	2.6	1.7	0.9	0.9	0.9	0.9	0.9
160°	1.7	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)