Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: STREETWORKS

Report Number: P322412

Luminaire Tested: **GAN-SA8C-830-U-T3-HSS**

Issue Date: 3/3/2020

Report Generated By E0585644

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P322412
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	GAN-SA8C-830-U-T3-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	32826 lumens
Efficiency:	N/A
Efficacy:	73.8 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U0 - G5

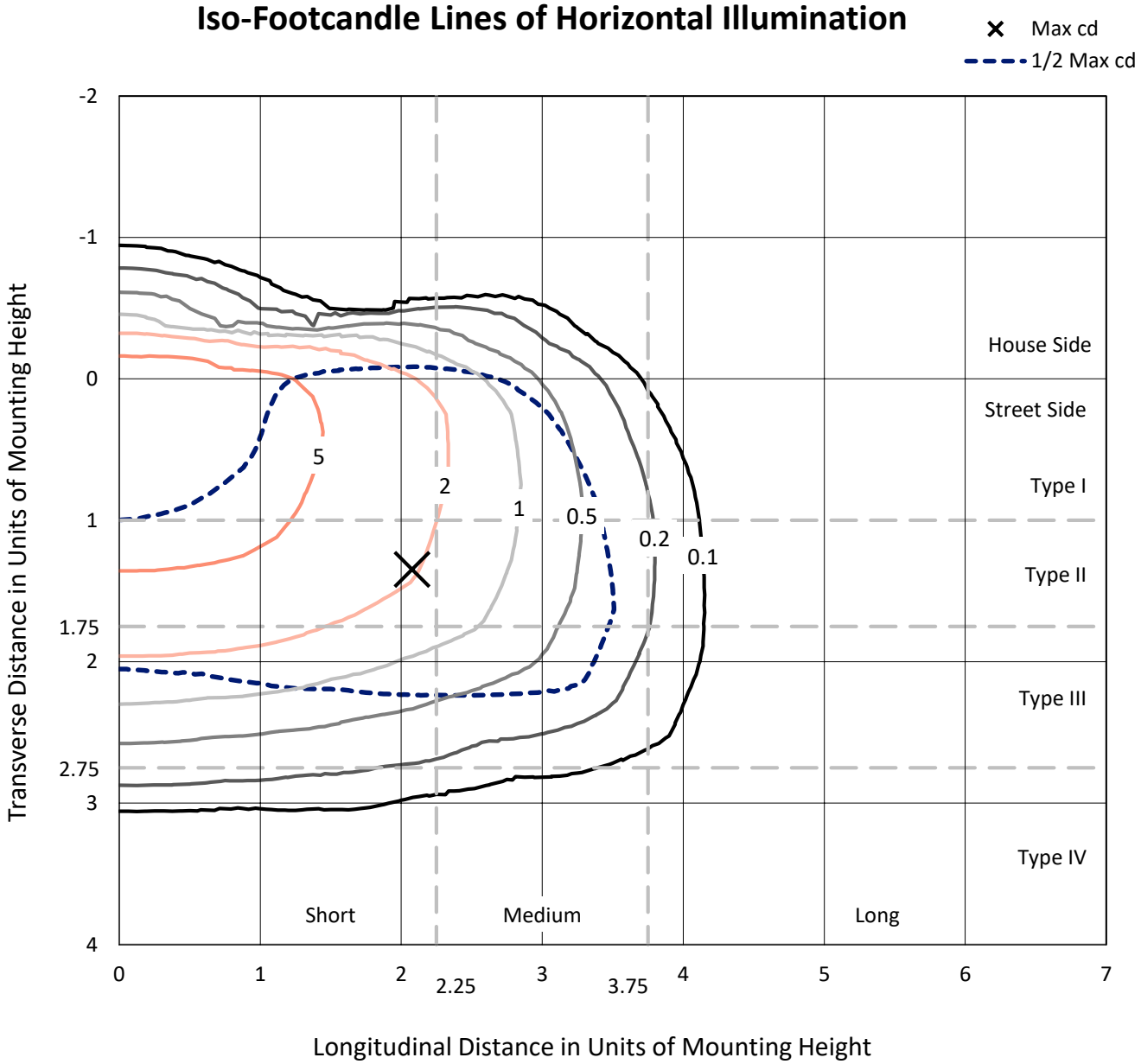
Input Watts (W):	445
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P322412
CATALOG NUMBER: GAN-SA8C-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination



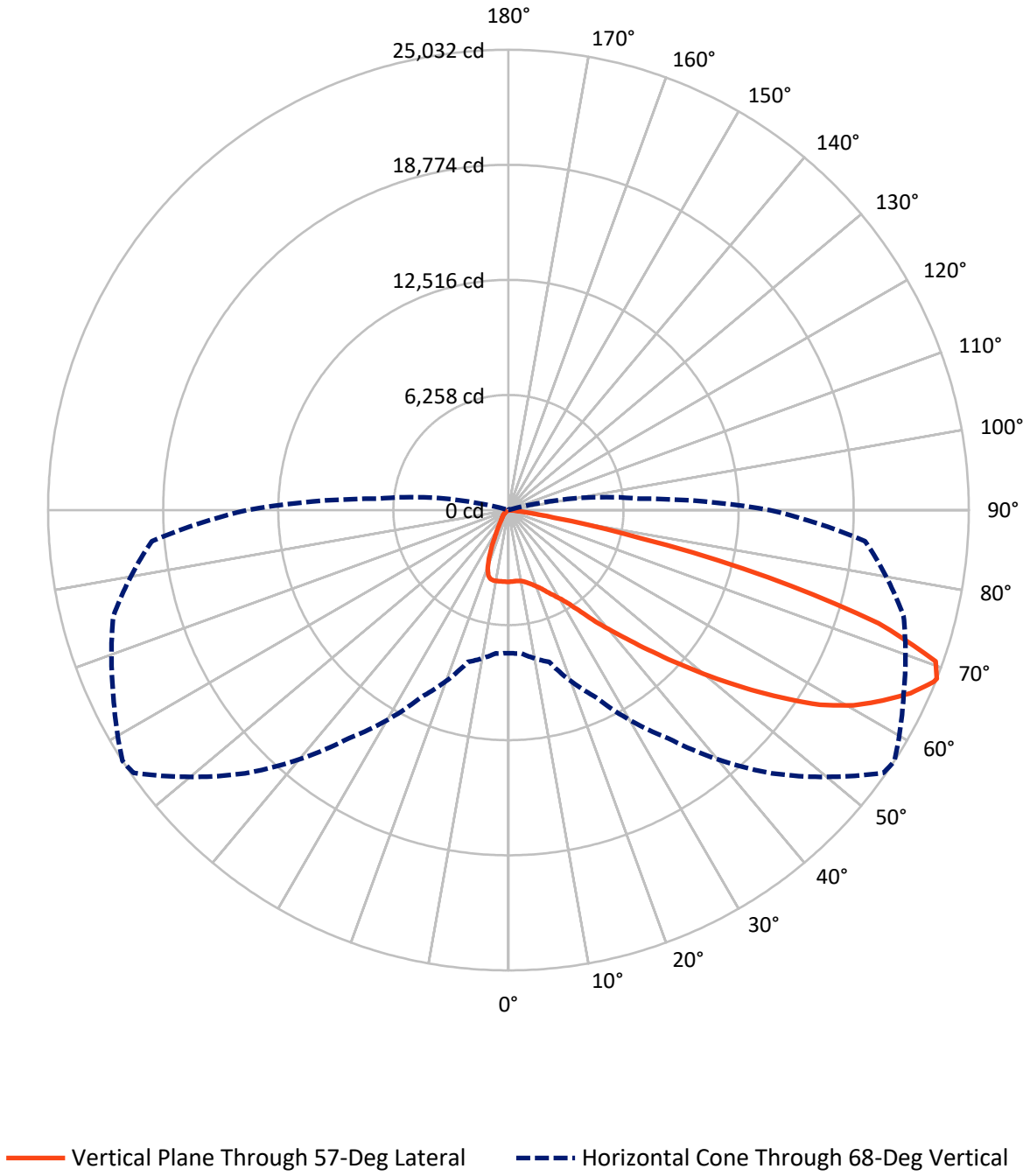
Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
Type III - Short - N/A

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P322412
CATALOG NUMBER: GAN-SA8C-830-U-T3-HSS

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

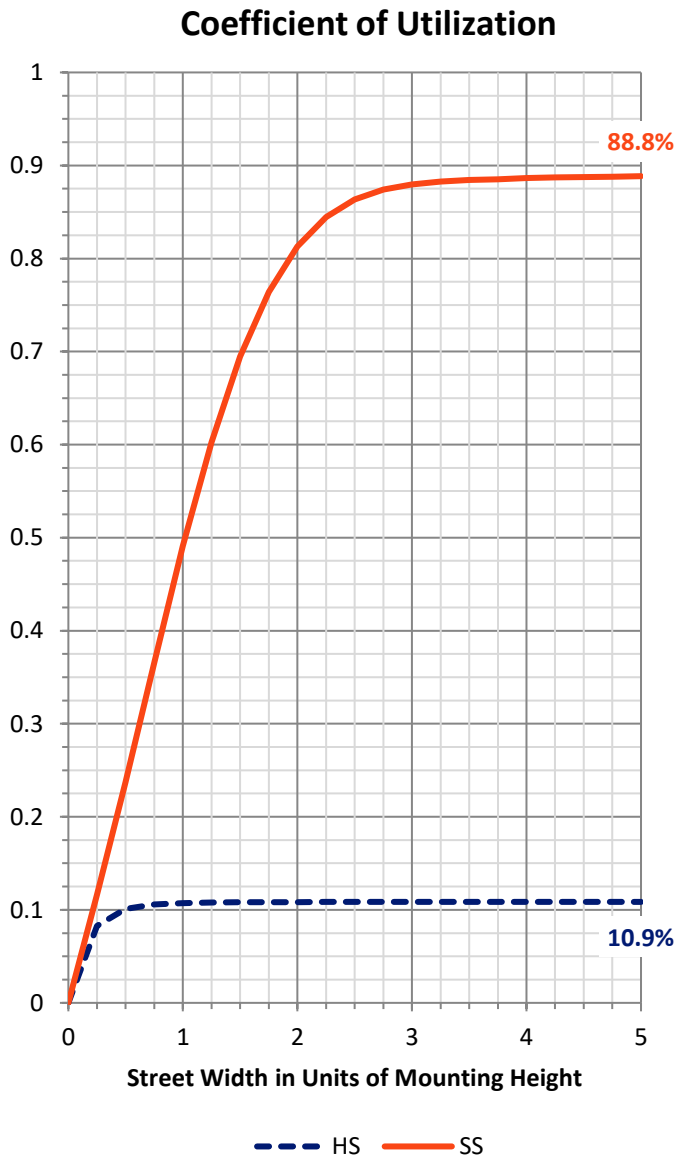
REPORT NUMBER: P322412
CATALOG NUMBER: GAN-SA8C-830-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3599.6	0.0	3599.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	29226.4	0.0	29226.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	32826.0	0.0	32826.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.0	1.1
10°-20°	1011.5	3.1
20°-30°	1745.0	5.3
30°-40°	3011.8	9.2
40°-50°	5151.8	15.7
50°-60°	8242.3	25.1
60°-70°	9523.1	29.0
70°-80°	3638.9	11.1
80°-90°	136.4	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	32826.0	100.0
0°-180°	32826.0	100.0



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

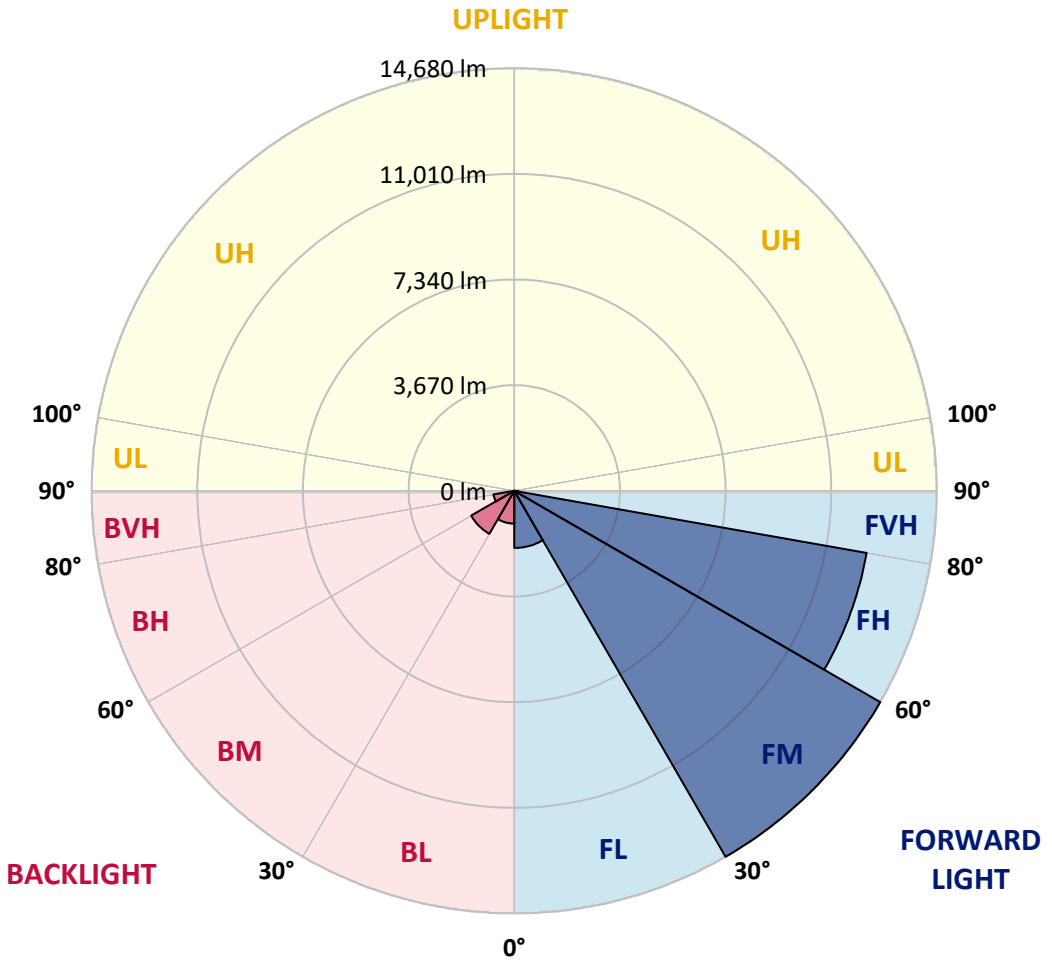
Scaled Data Report

REPORT NUMBER: P322412
CATALOG NUMBER: GAN-SA8C-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1984.0	6.0			
FM	(30°-60°)	14679.5	44.7			
FH	(60°-80°)	12429.0	37.9			G5
FVH	(80°-90°)	133.9	0.4			G2/225
BL	(0°-30°)	1137.6	3.5	B3/2500		
BM	(30°-60°)	1726.4	5.3	B2/2500		
BH	(60°-80°)	733.1	2.2	B2/1000		G2/1000
BVH	(80°-90°)	2.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
Type III Short



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P322412
CATALOG NUMBER: GAN-SA8C-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3900.6	3900.6	3900.6	3900.6	3900.6	3900.6	3900.6	*3900.6*	3900.6	3900.6	3900.6
2.5°	3809.0	3826.1	3838.5	3846.3	3855.6	3875.8	3882.0	*3891.3*	3895.9	3895.9	3906.8
5°	3658.5	3677.1	3703.5	3725.2	3768.7	3824.5	3864.9	*3880.4*	3908.4	3933.2	3947.2
7.5°	3518.8	3540.5	3571.5	3622.8	3697.3	3787.3	3871.1	*3892.8*	3947.2	3999.9	4026.3
10°	3428.7	3445.8	3486.2	3559.1	3656.9	3782.6	3900.6	*3927.0*	4020.1	4108.6	4158.3
12.5°	3397.7	3413.2	3455.1	3537.4	3658.5	3805.9	3968.9	*4007.7*	4144.3	4273.1	4343.0
15°	3442.7	3445.8	3490.8	3568.4	3687.9	3863.3	4082.2	*4128.8*	4301.1	4468.7	4555.6
17.5°	3616.5	3602.6	3625.9	3660.0	3754.7	3939.4	4201.7	*4271.6*	4501.3	4698.4	4780.7
20°	4051.2	4051.2	3998.4	3905.3	3906.8	4057.4	4363.1	*4442.3*	4723.2	4951.4	5025.9
22.5°	4794.6	4780.7	4675.1	4447.0	4237.4	4260.7	4560.3	*4662.7*	4990.2	5233.9	5258.7
25°	5688.7	5671.6	5508.6	5187.3	4824.1	4589.8	4827.2	*4945.2*	5308.4	5524.2	5472.9
27.5°	6635.5	6621.5	6460.1	6061.2	5544.3	5114.4	5145.4	*5257.2*	5632.8	5845.5	5682.5
30°	7552.8	7557.5	7397.6	6987.9	6402.7	5783.4	5549.0	*5614.2*	5947.9	6163.7	5930.8
32.5°	8425.2	8431.4	8293.2	7835.3	7289.0	6561.0	6107.8	*6090.7*	6314.2	6526.9	6259.9
35°	9202.8	9218.3	9123.6	8768.2	8189.2	7427.1	6832.6	*6792.3*	6834.2	7074.8	6764.3
37.5°	9952.5	9961.8	9890.4	9590.8	9106.6	8378.6	7748.4	*7691.0*	7601.0	7785.7	7430.2
40°	10773.6	10750.3	10668.0	10396.4	9980.4	9429.4	8732.5	*8633.1*	8476.4	8640.9	8305.6
42.5°	11537.3	11510.9	11524.8	11217.5	10866.7	10509.7	9879.5	*9708.8*	9617.2	9806.6	9379.7
45°	12491.8	12477.9	12524.4	12257.5	11973.4	11714.2	11194.2	*11008.0*	10967.6	11189.6	10678.9
47.5°	13434.0	13468.1	13612.5	13499.2	13384.3	13156.2	12586.5	*12502.7*	12527.5	12796.1	12049.5
50°	14219.4	14259.8	14655.6	14785.9	14952.0	14818.5	14247.3	*14196.1*	14293.9	14536.0	13524.0
52.5°	14787.5	14869.8	15361.8	15962.5	16567.8	16657.9	16088.2	*16041.6*	16173.6	16210.8	14663.3
55°	15181.7	15254.7	15811.9	16910.9	18143.3	18531.3	18177.4	*17997.4*	17972.5	17604.7	15861.6
57.5°	15251.6	15243.8	16044.7	17524.0	19378.8	20379.9	20156.4	*19979.5*	19470.4	18893.0	17235.3
60°	14857.3	14902.3	15832.1	17736.6	20154.9	21778.4	21795.5	*21565.8*	20772.6	20145.6	18567.0
62.5°	13643.5	13826.7	14765.8	17179.4	20145.6	22341.9	22996.9	*22821.5*	21873.1	21171.6	19917.4
65°	11675.4	11740.6	12636.2	15270.2	18784.3	22106.0	24078.8	*24013.6*	22865.0	22168.0	20611.2
67.5°	8526.1	8384.8	9325.4	12024.6	15903.5	20730.7	24854.8	*24937.1*	23630.2	22372.9	19872.4
68°	*7781.0*	*7822.9*	*8555.5*	*11222.2*	*15149.1*	*20244.9*	*24906.1*	*25031.8*	*23706.2*	*22239.4*	*19468.8*
70°	4637.9	4718.6	5372.0	7726.7	11524.8	17496.0	24353.5	*24640.6*	23253.0	20862.7	16839.5
72.5°	1184.3	1280.5	1898.3	3458.2	6582.7	12327.3	20558.4	*21044.3*	20189.0	16924.8	11368.1
75°	487.4	512.2	678.3	1139.3	2452.4	5553.7	13550.4	*14590.4*	13995.9	10132.5	5137.7
77.5°	336.8	353.9	436.2	631.7	1061.7	1882.8	6643.3	*7394.5*	6661.9	3458.2	1120.7
80°	242.1	256.1	312.0	420.6	610.0	672.1	2165.3	*2503.6*	1988.3	759.0	277.8
82.5°	144.4	155.2	232.8	299.6	371.0	321.3	538.6	*611.6*	575.9	377.2	124.2
85°	71.4	83.8	156.8	214.2	200.2	135.0	164.5	*183.2*	226.6	229.7	66.7
87.5°	4.7	9.3	91.6	128.8	55.9	31.0	48.1	*59.0*	80.7	113.3	27.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P322412
CATALOG NUMBER: GAN-SA8C-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3900.6	3900.6	3900.6	3900.6	3900.6	3900.6	3900.6	3900.6	3900.6	3900.6	3900.6
2.5°	3911.5	3913.0	3902.1	3897.5	3900.6	3882.0	3874.2	3877.3	3877.3	3882.0	3874.2
5°	3950.3	3950.3	3931.6	3906.8	3892.8	3857.1	3833.9	3827.6	3823.0	3819.9	3813.7
7.5°	4034.1	4024.8	3992.2	3937.8	3891.3	3813.7	3754.7	3723.6	3708.1	3701.9	3697.3
10°	4169.1	4152.0	4097.7	3996.8	3889.7	3751.6	3622.8	3531.2	3455.1	3424.1	3405.5
12.5°	4350.7	4325.9	4234.3	4066.7	3878.9	3624.3	3344.9	3076.4	2826.5	2724.1	2672.8
15°	4560.3	4524.6	4380.2	4125.7	3815.2	3337.2	2730.3	2260.0	1913.8	1783.4	1727.6
17.5°	4772.9	4726.3	4507.5	4162.9	3624.3	2742.7	1915.4	1446.6	1215.3	1153.3	1131.5
20°	4987.1	4918.8	4617.7	4135.0	3192.8	1977.5	1263.5	1057.0	990.3	971.7	965.4
22.5°	5190.4	5084.9	4717.0	4026.3	2528.5	1327.1	999.6	934.4	912.7	901.8	898.7
25°	5367.4	5219.9	4804.0	3691.1	1789.6	1002.7	900.3	878.5	850.6	830.4	832.0
27.5°	5533.5	5355.0	4856.7	3138.5	1193.6	856.8	833.5	804.0	752.8	723.3	723.3
30°	5733.7	5535.0	4895.5	2415.2	878.5	757.5	738.8	693.8	624.0	585.2	585.2
32.5°	6034.8	5808.2	4870.7	1695.0	728.0	665.9	622.4	560.3	484.3	447.0	445.5
35°	6495.8	6230.4	4693.8	1111.4	642.6	579.0	509.1	433.1	366.3	335.3	333.7
37.5°	7116.7	6795.4	4296.4	794.7	575.9	498.2	414.4	330.6	280.9	260.8	259.2
40°	7922.3	7452.0	3728.3	644.1	513.8	420.6	319.7	256.1	222.0	206.4	208.0
42.5°	8889.3	8155.1	3046.9	555.7	453.2	346.1	249.9	201.8	180.1	169.2	166.1
45°	9963.4	8848.9	2332.9	495.1	392.7	279.4	195.6	159.9	142.8	136.6	136.6
47.5°	11144.6	9524.1	1707.4	442.4	327.5	215.8	156.8	130.4	116.4	111.8	110.2
50°	12217.1	9992.8	1230.9	386.5	268.5	170.7	127.3	108.7	99.3	93.1	93.1
52.5°	13111.1	10140.3	906.5	326.0	217.3	136.6	105.5	93.1	83.8	79.2	79.2
55°	13898.1	10079.8	673.6	268.5	175.4	111.8	90.0	79.2	71.4	66.7	66.7
57.5°	14652.5	9884.2	502.9	218.9	141.2	90.0	76.1	66.7	59.0	55.9	55.9
60°	15268.7	9558.2	374.1	176.9	113.3	73.0	63.6	54.3	48.1	43.5	43.5
62.5°	15768.5	9198.1	274.7	145.9	90.0	57.4	49.7	45.0	35.7	31.0	31.0
65°	15771.6	8600.6	206.4	121.1	69.8	45.0	37.3	35.7	23.3	18.6	17.1
67.5°	14630.7	7414.7	158.3	104.0	54.3	34.1	27.9	29.5	12.4	7.8	6.2
68°	*14216.3*	*7113.6*	*149.0*	*102.4*	*51.2*	*32.6*	*26.4*	*29.5*	*10.9*	*6.2*	*4.7*
70°	11985.8	5659.2	119.5	99.3	45.0	24.8	21.7	29.5	9.3	4.7	3.1
72.5°	7666.2	3284.4	88.5	79.2	34.1	18.6	14.0	26.4	9.3	3.1	1.6
75°	3262.7	1018.2	60.5	55.9	20.2	14.0	9.3	17.1	6.2	1.6	0.0
77.5°	687.6	229.7	35.7	34.1	14.0	9.3	6.2	4.7	1.6	0.0	0.0
80°	176.9	66.7	18.6	17.1	7.8	4.7	3.1	0.0	0.0	0.0	0.0
82.5°	55.9	26.4	10.9	7.8	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.9	15.5	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.5	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)