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: P323052

Luminaire Tested: **GAN-SA8C-830-U-T4W-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:	P323052
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	GAN-SA8C-830-U-T4W-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	32649 lumens
Efficiency:	N/A
Efficacy:	73.4 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G5

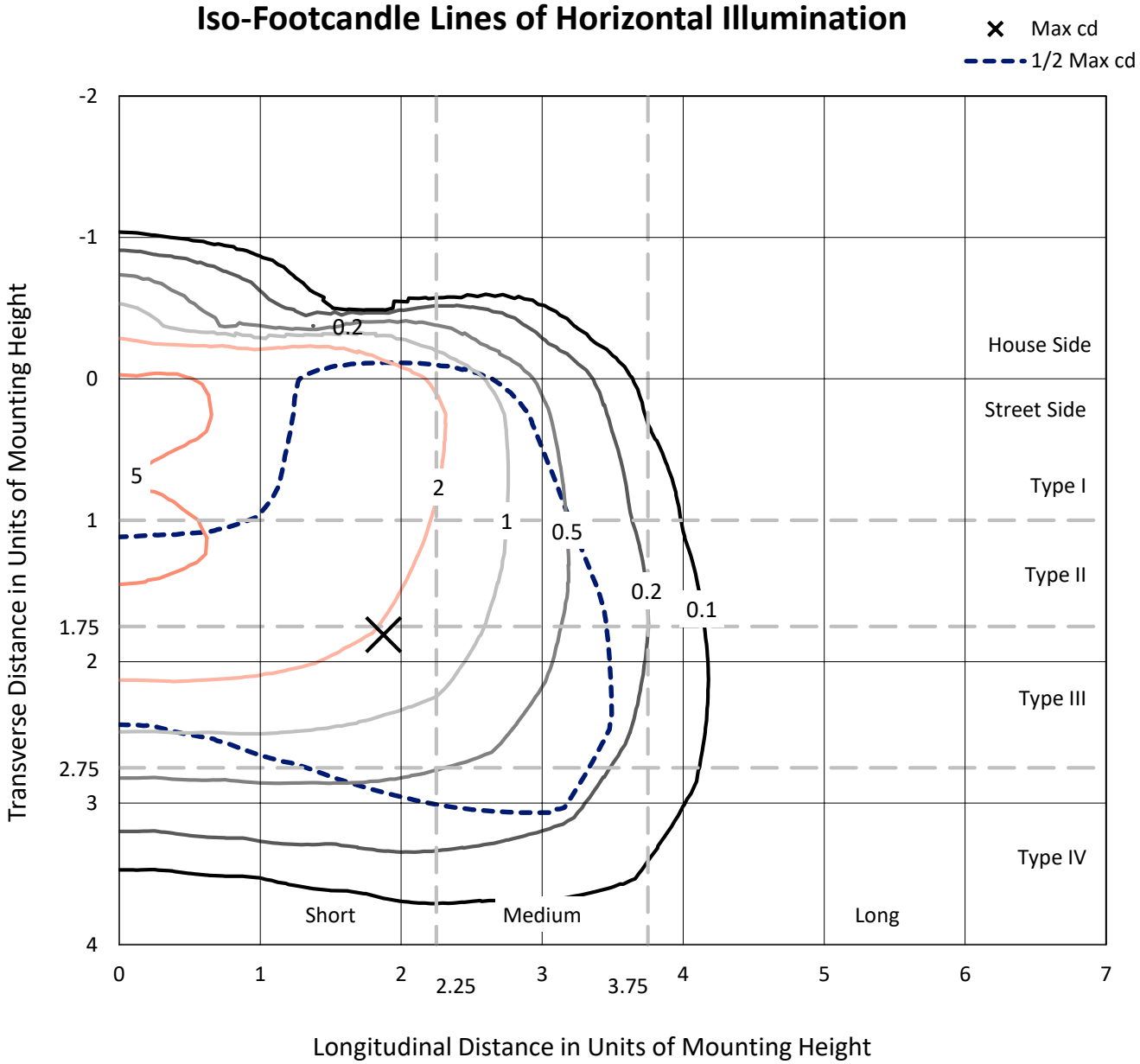
Input Watts (W):	445
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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

Scaled Data Report

REPORT NUMBER: P323052
CATALOG NUMBER: GAN-SA8C-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination



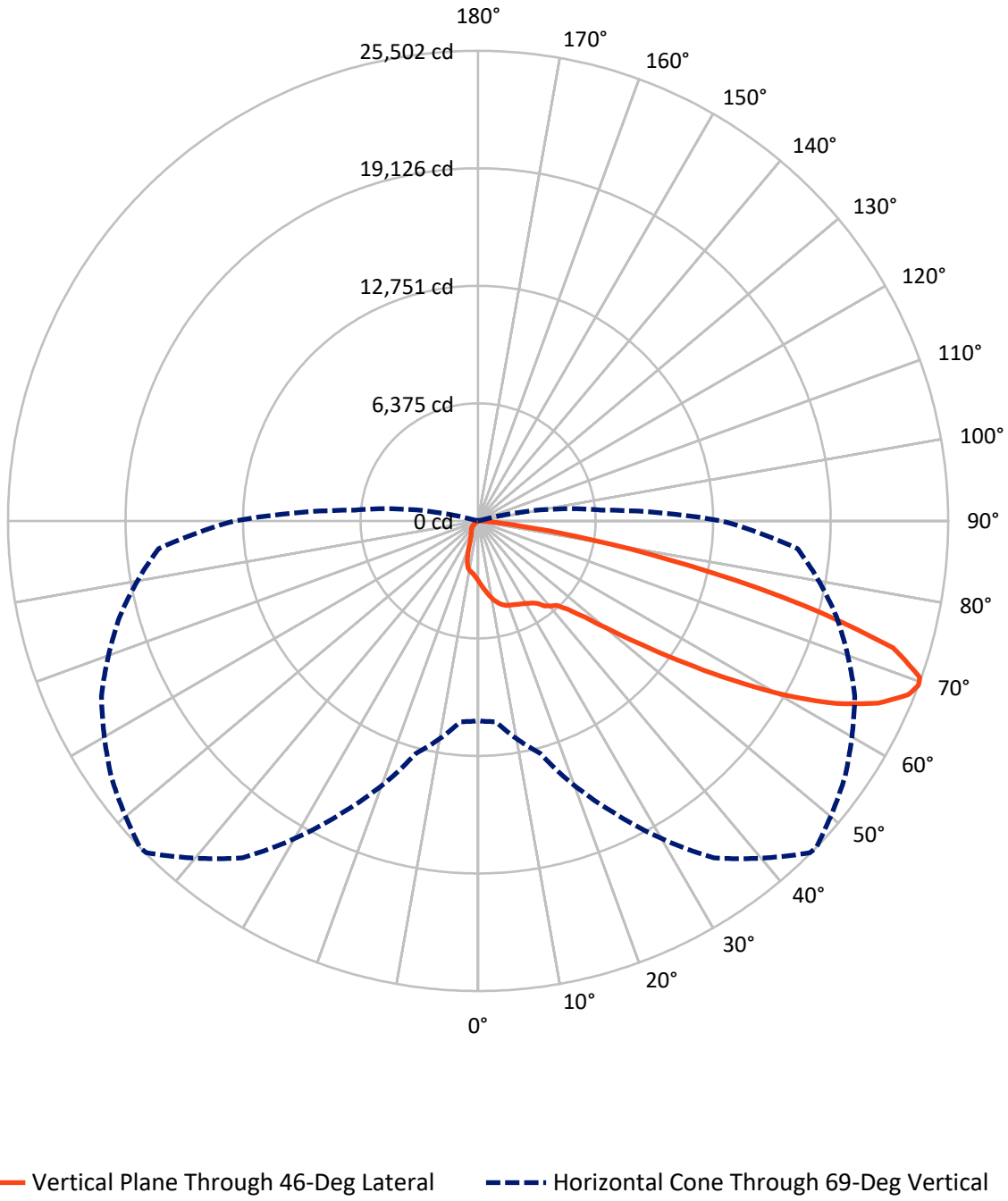
Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P323052
CATALOG NUMBER: GAN-SA8C-830-U-T4W-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

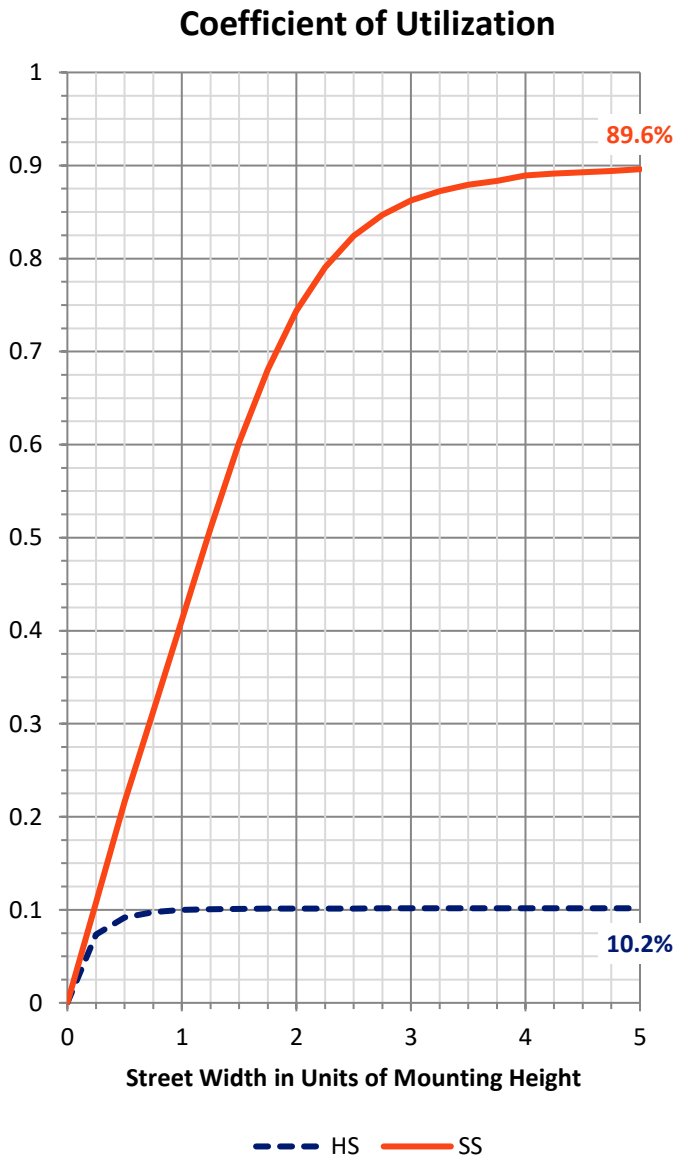
REPORT NUMBER: P323052
CATALOG NUMBER: GAN-SA8C-830-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3350.7	0.0	3350.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	29298.3	0.0	29298.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	32649.0	0.0	32649.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.6	1.0
10°-20°	987.8	3.0
20°-30°	1553.5	4.8
30°-40°	2227.7	6.8
40°-50°	3850.4	11.8
50°-60°	7606.7	23.3
60°-70°	10631.1	32.6
70°-80°	5136.0	15.7
80°-90°	330.1	1.0
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°	32649.0	100.0
0°-180°	32649.0	100.0



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

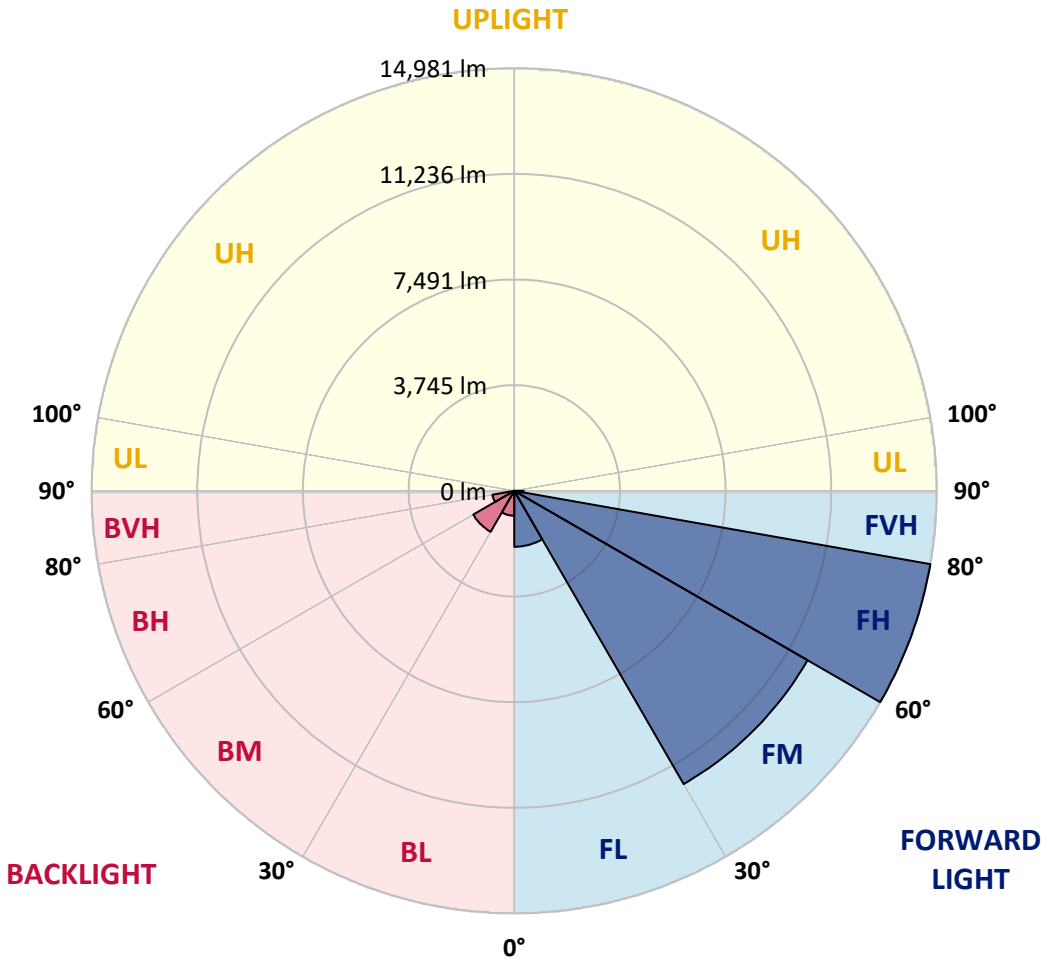
Scaled Data Report

REPORT NUMBER: P323052
CATALOG NUMBER: GAN-SA8C-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1983.8	6.1			
FM	(30°-60°)	12005.8	36.8			
FH	(60°-80°)	14981.4	45.9			G5
FVH	(80°-90°)	327.3	1.0			G3/500
BL	(0°-30°)	883.1	2.7	B2/1000		
BM	(30°-60°)	1679.1	5.1	B2/2500		
BH	(60°-80°)	785.7	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P323052
CATALOG NUMBER: GAN-SA8C-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3271.3	3271.3	3271.3	3271.3	3271.3	3271.3	*3271.3*	3271.3	3271.3	3271.3	3271.3
2.5°	3634.1	3629.5	3608.1	3598.9	3546.9	3516.2	*3504.0*	3465.7	3410.6	3355.5	3294.3
5°	4047.4	4045.9	4006.1	3967.8	3869.8	3778.0	*3761.2*	3672.4	3548.4	3432.0	3315.7
7.5°	4469.9	4450.0	4410.2	4336.7	4194.4	4047.4	*4033.6*	3908.1	3732.1	3563.7	3396.8
10°	4828.1	4815.9	4763.8	4652.1	4485.2	4318.4	*4301.5*	4146.9	3947.9	3741.3	3528.5
12.5°	5106.7	5097.5	5028.7	4889.4	4711.8	4538.8	*4515.8*	4378.1	4165.3	3934.1	3683.1
15°	5276.6	5272.1	5187.9	5039.4	4864.9	4714.8	*4694.9*	4574.0	4376.5	4134.7	3851.5
17.5°	5316.4	5318.0	5230.7	5080.7	4936.8	4829.7	*4814.3*	4722.5	4557.2	4316.8	4019.9
20°	5227.7	5246.0	5168.0	5037.8	4949.1	4892.4	*4880.2*	4825.1	4685.8	4459.2	4154.6
22.5°	5102.1	5111.3	5057.7	4970.5	4933.8	4944.5	*4938.3*	4907.7	4789.9	4581.7	4287.8
25°	5025.6	5025.6	4993.5	4920.0	4944.5	5010.3	*5011.8*	5005.7	4912.3	4731.7	4450.0
27.5°	5022.5	5013.4	4976.6	4921.5	4988.9	5089.9	*5096.0*	5137.3	5079.2	4913.9	4652.1
30°	5145.0	5134.3	5056.2	4984.3	5070.0	5178.7	*5194.0*	5284.3	5255.2	5111.3	4877.1
32.5°	5431.3	5393.0	5220.0	5102.1	5166.4	5296.5	*5316.4*	5460.3	5506.3	5354.7	5094.5
35°	5823.1	5702.2	5452.7	5325.6	5331.8	5468.0	*5486.4*	5697.6	5833.9	5578.2	5262.9
37.5°	6363.5	6303.8	5898.2	5558.3	5585.9	5792.5	*5846.1*	6075.7	6037.5	5700.7	5454.2
40°	7548.3	7455.0	7023.3	6210.4	5829.3	6055.8	*6072.7*	6195.1	6198.2	5977.8	5852.2
42.5°	9161.8	9123.5	8668.9	7393.7	6308.4	6231.9	*6262.5*	6469.1	6700.3	6562.5	6556.4
45°	10948.2	10928.3	10446.1	8964.3	7277.4	6809.0	*6847.2*	7124.3	7566.7	7597.3	7791.7
47.5°	12385.7	12376.5	12099.4	10717.1	8760.7	7787.2	*7799.4*	8093.3	8871.0	9255.2	9565.9
50°	13696.0	13740.4	13521.5	12613.7	10781.4	9319.5	*9290.4*	9486.3	10735.5	11364.6	11750.4
52.5°	15517.7	15580.4	14966.6	14383.3	12901.5	11220.7	*11197.8*	11402.9	12976.5	13448.0	13516.9
55°	17126.5	17019.4	16534.1	16365.7	15487.0	13569.0	*13562.8*	13743.5	15144.1	15344.7	15471.7
57.5°	17836.8	17795.5	18029.7	18415.5	18195.0	16344.3	*16330.5*	16192.7	17083.7	17105.1	17495.4
60°	18285.3	18335.9	19053.8	20243.2	20792.8	19330.9	*19242.1*	18401.7	18935.9	18888.5	19306.4
62.5°	17948.6	18048.1	19340.1	21322.4	22736.9	21937.8	*21812.3*	20425.4	20518.8	20355.0	20743.8
65°	16160.6	16315.2	18432.3	21118.8	23701.3	23975.3	*23848.2*	22211.8	21775.6	21506.1	21290.3
67.5°	13122.0	13213.8	15424.3	19347.7	23266.5	25190.8	*25164.7*	23777.8	22724.6	21311.7	19637.0
69°	*10844.1*	*10934.5*	*13062.3*	*17483.2*	*22309.8*	*25451.0*	*25501.5*	*24279.9*	*22544.0*	*20129.9*	*17399.0*
70°	9184.8	9281.2	11263.6	15885.1	21200.0	25330.1	*25420.4*	24232.5	22026.6	18761.4	15435.0
72.5°	4817.4	4900.1	6934.5	10943.6	17282.7	23258.9	*23532.9*	22184.3	18671.1	13625.6	9126.6
75°	1514.0	1561.4	2708.0	5720.6	11833.0	18084.8	*18147.6*	17402.1	13258.2	7494.8	3801.0
77.5°	577.1	563.3	901.6	2107.9	5982.3	11387.6	*11771.8*	10874.8	6957.5	2649.8	877.1
80°	310.8	312.3	468.4	872.6	2559.5	5852.2	*6176.8*	5270.5	2472.2	826.6	202.1
82.5°	134.7	140.8	263.3	462.3	1175.7	2158.4	*2320.7*	1931.9	944.5	555.7	75.0
85°	29.1	32.1	127.1	251.1	479.1	606.2	*635.3*	626.1	601.6	431.7	29.1
87.5°	0.0	0.0	56.6	90.3	120.9	137.8	*120.9*	157.7	332.2	290.9	15.3
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: P323052
CATALOG NUMBER: GAN-SA8C-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3271.3	3271.3	3271.3	3271.3	3271.3	3271.3	3271.3	3271.3	3271.3	3271.3	3271.3
2.5°	3274.4	3246.8	3199.4	3147.3	3110.6	3072.3	3041.7	3027.9	3012.6	3001.9	3015.7
5°	3268.2	3214.7	3122.8	3034.0	2969.7	2917.7	2874.8	2858.0	2841.2	2828.9	2827.4
7.5°	3321.8	3246.8	3106.0	2975.9	2876.4	2805.9	2747.8	2723.3	2703.4	2694.2	2686.5
10°	3424.4	3327.9	3139.7	2969.7	2841.2	2721.8	2596.2	2499.8	2437.0	2407.9	2397.2
12.5°	3557.6	3436.6	3204.0	3001.9	2815.1	2585.5	2319.2	2089.5	1941.0	1892.1	1863.0
15°	3713.7	3563.7	3288.1	3043.2	2720.2	2300.8	1849.2	1549.2	1411.4	1383.8	1353.2
17.5°	3863.7	3698.4	3389.2	3050.9	2512.0	1838.5	1354.8	1151.2	1097.6	1115.9	1120.5
20°	3995.4	3831.6	3488.7	2983.5	2133.9	1379.2	1048.6	998.1	1018.0	1053.2	1059.3
22.5°	4128.6	3960.2	3580.5	2805.9	1650.2	1047.1	944.5	956.7	976.6	1011.9	1018.0
25°	4290.8	4116.3	3666.3	2479.9	1238.4	890.9	897.0	915.4	935.3	967.5	970.5
27.5°	4477.6	4313.8	3722.9	2055.9	918.5	819.0	838.9	866.4	886.3	916.9	923.1
30°	4725.6	4574.0	3741.3	1616.5	770.0	754.7	763.9	797.5	826.6	854.2	858.8
32.5°	4958.2	4831.2	3680.0	1220.0	713.4	695.0	695.0	714.9	748.6	774.6	780.7
35°	5172.6	5089.9	3484.1	892.5	670.5	639.9	624.6	624.6	646.0	667.4	673.5
37.5°	5455.8	5452.7	3167.2	711.8	629.2	593.9	561.8	537.3	529.7	534.2	537.3
40°	5941.0	5945.6	2753.9	638.3	593.9	546.5	497.5	453.1	411.8	398.0	396.5
42.5°	6698.8	6629.9	2320.7	603.1	563.3	497.5	424.0	364.3	300.0	280.1	278.6
45°	7902.0	7493.2	1861.4	571.0	531.2	442.4	350.6	269.4	217.4	202.1	202.1
47.5°	9654.7	8627.6	1442.0	535.8	488.3	379.6	264.8	194.4	159.2	151.5	153.1
50°	11467.2	9738.9	1105.2	491.4	436.3	313.8	195.9	140.8	120.9	120.9	122.5
52.5°	13074.5	10553.3	861.8	443.9	372.0	246.5	148.5	110.2	101.0	99.5	101.0
55°	14579.3	11078.4	659.8	388.8	295.4	183.7	113.3	90.3	84.2	81.1	79.6
57.5°	16030.5	11338.6	494.4	313.8	214.3	133.2	90.3	76.5	70.4	65.8	64.3
60°	16996.4	11127.3	339.8	231.1	148.5	96.4	75.0	65.8	58.2	53.6	52.0
62.5°	17541.4	10550.2	218.9	166.9	105.6	71.9	59.7	55.1	44.4	39.8	39.8
65°	17320.9	9598.1	153.1	119.4	76.5	53.6	44.4	44.4	32.1	26.0	24.5
67.5°	15349.3	8108.6	116.3	88.8	55.1	39.8	33.7	38.3	19.9	12.2	12.2
69°	*13206.2*	*6720.2*	*99.5*	*73.5*	*45.9*	*32.1*	*29.1*	*35.2*	*13.8*	*9.2*	*7.7*
70°	11477.9	5797.1	90.3	64.3	38.3	27.6	26.0	33.7	13.8	7.7	6.1
72.5°	6867.1	3233.0	68.9	45.9	24.5	21.4	21.4	38.3	13.8	7.7	6.1
75°	2775.3	1138.9	50.5	32.1	18.4	18.4	26.0	49.0	12.2	6.1	4.6
77.5°	629.2	249.5	29.1	19.9	12.2	18.4	30.6	38.3	7.7	3.1	0.0
80°	153.1	61.2	18.4	12.2	7.7	13.8	23.0	21.4	1.5	0.0	0.0
82.5°	50.5	21.4	7.7	6.1	1.5	4.6	10.7	6.1	0.0	0.0	0.0
85°	21.4	12.2	3.1	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0
87.5°	13.8	4.6	0.0	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)