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: McGRAW-EDISON

Report Number: P451768

Luminaire Tested: **GALN-SA2C-830-U-SLL-HSS**

Issue Date: 1/4/2021

Report Generated By 670248863

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P451768
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab:	INNOVATION CENTER
Issue Date:	1/4/2021
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SA2C-830-U-SLL-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8068 lumens
Efficiency:	N/A
Efficacy:	74.7 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	108
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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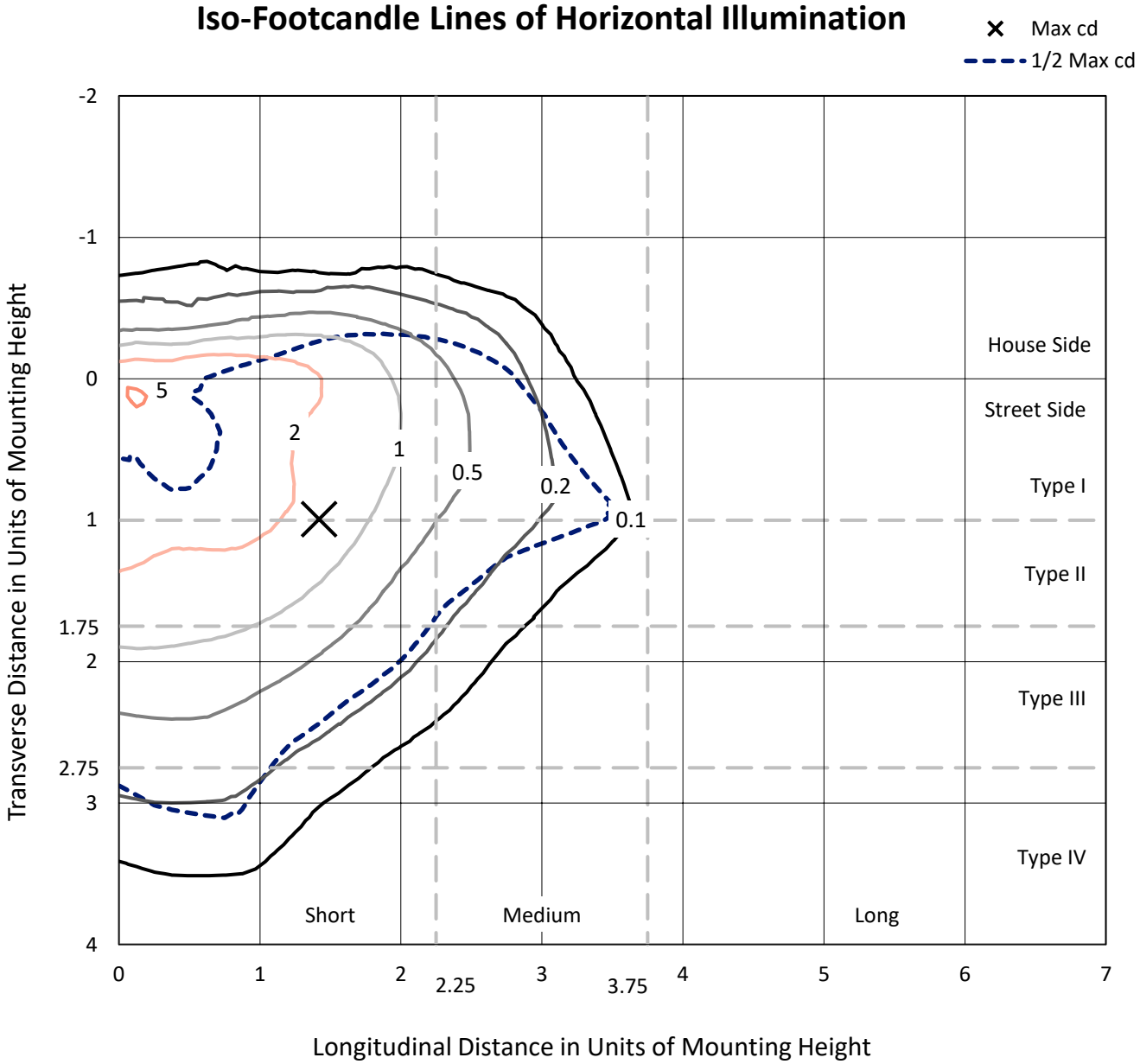
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type III - Short - N/A

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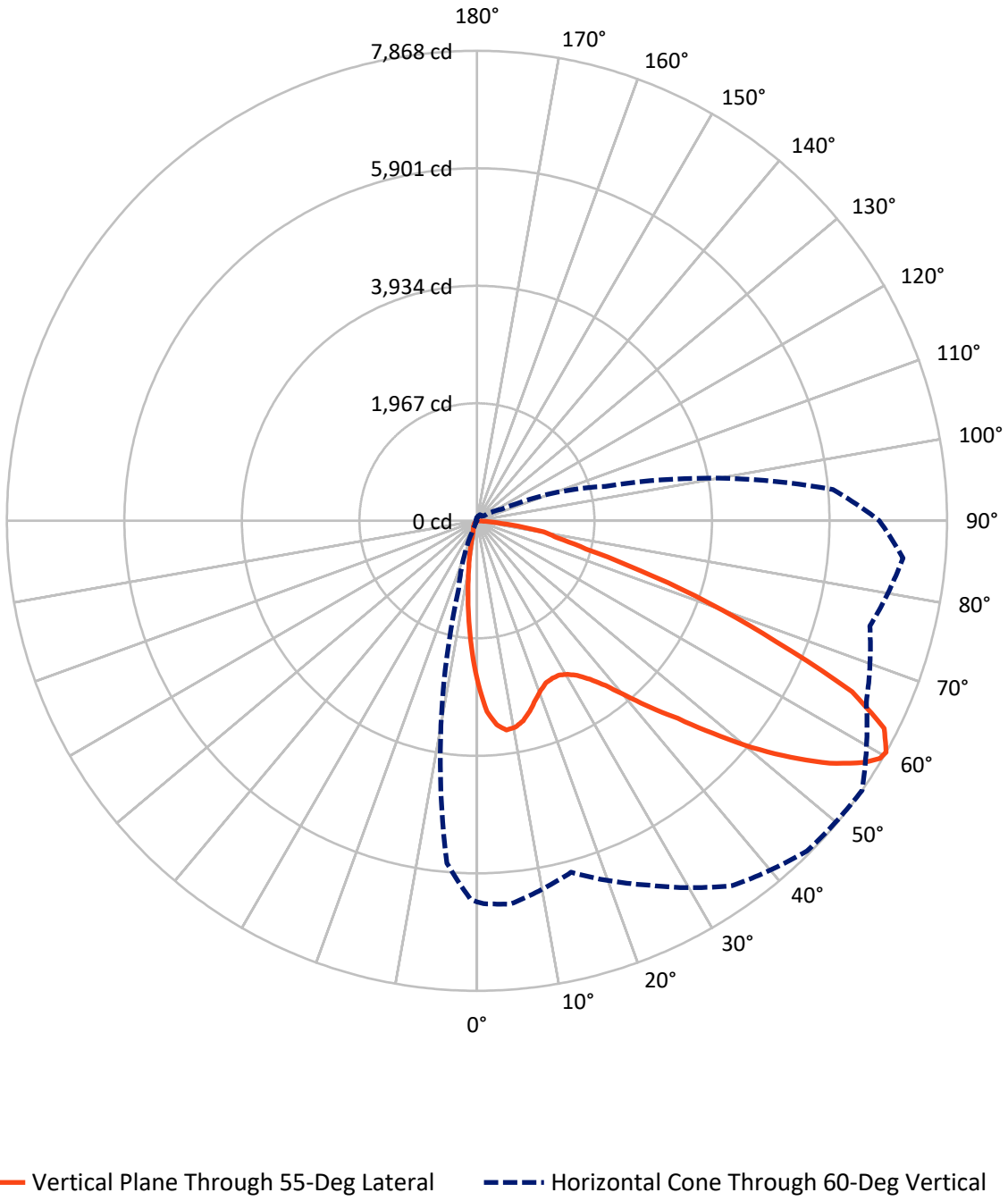
Luminous Intensity Polar Plot



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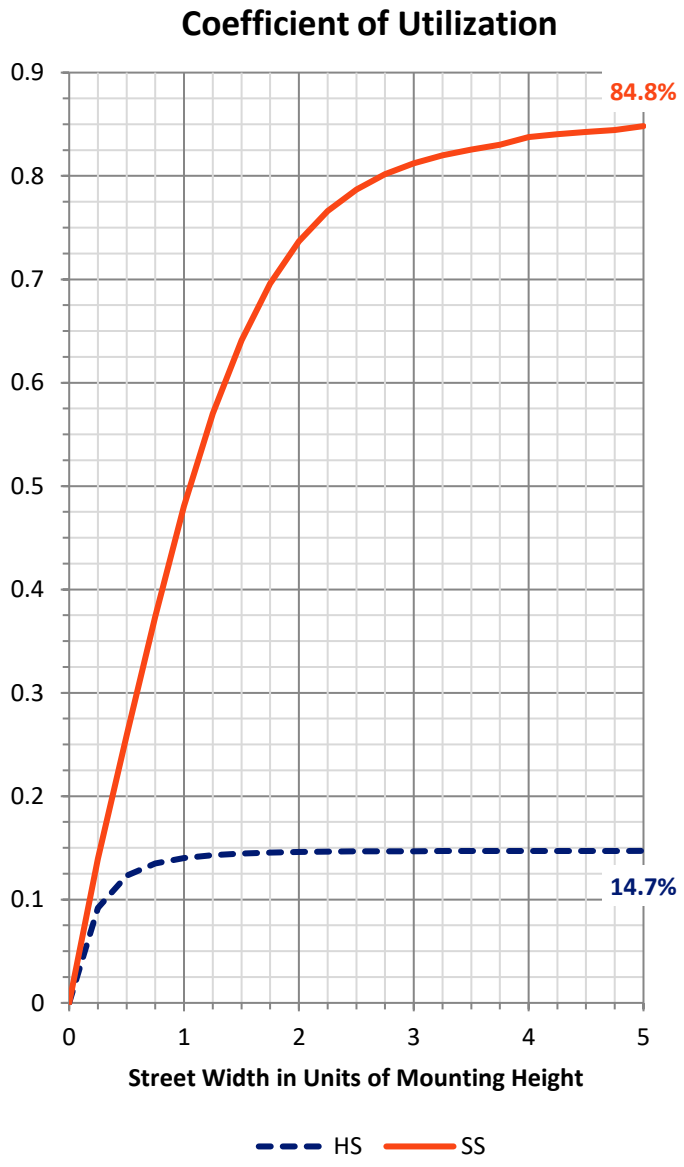
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1197.4	0.0	1197.4
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	6870.6	0.0	6870.6
	% Fixture	85.2	0.0	85.2
Total	Lumens	8068.0	0.0	8068.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	2.5
10°-20°	398.4	4.9
20°-30°	589.6	7.3
30°-40°	878.9	10.9
40°-50°	1287.2	16.0
50°-60°	1858.3	23.0
60°-70°	1954.9	24.2
70°-80°	804.2	10.0
80°-90°	94.2	1.2
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°	8068.0	100.0
0°-180°	8068.0	100.0



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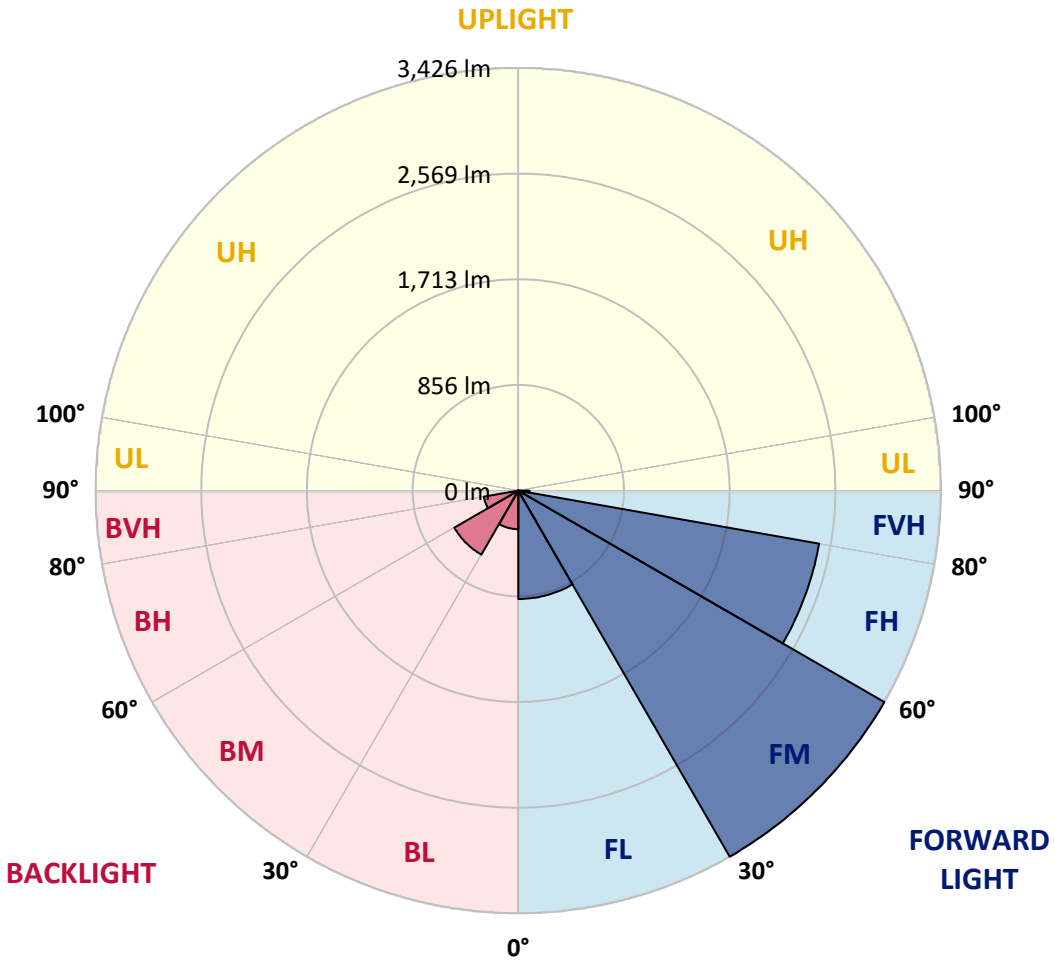
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	877.9	10.9			
FM	(30°-60°)	3425.7	42.5			
FH	(60°-80°)	2475.6	30.7			G2/5000
FVH	(80°-90°)	91.4	1.1			G1/100
BL	(0°-30°)	312.4	3.9	B1/500		
BM	(30°-60°)	598.8	7.4	B1/1000		
BH	(60°-80°)	283.4	3.5	B1/500		G1/500
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: B1-U0-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8
2.5°	2984.6	2979.6	3023.7	3095.7	3168.4	3206.3	3198.8	3195.7	3135.5	3091.4	2998.8
5°	2978.3	3003.8	3082.7	3277.7	3425.5	3496.9	3518.0	3429.2	3311.8	3141.7	2931.8
7.5°	2800.1	2831.8	2960.3	3265.2	3527.9	3683.2	3677.6	3535.4	3293.2	3029.9	2730.6
10°	2579.0	2616.3	2767.2	3137.3	3478.3	3683.2	3694.4	3514.3	3213.1	2875.3	2560.4
12.5°	2423.2	2467.3	2634.3	3018.1	3350.3	3552.2	3565.2	3434.8	3152.8	2815.6	2467.9
15°	2370.4	2412.0	2581.5	2957.8	3214.3	3323.0	3319.9	3306.2	3129.2	2829.9	2472.8
17.5°	2461.0	2495.2	2686.5	2985.2	3087.0	3075.8	3092.0	3157.8	3134.2	2949.8	2629.3
20°	2695.2	2729.9	2935.5	3069.0	2989.5	2918.7	2926.2	3036.1	3180.2	3175.2	2874.0
22.5°	3017.5	3076.5	3262.8	3231.7	2976.5	2821.2	2805.7	2948.5	3258.4	3434.8	3204.4
25°	3425.5	3485.1	3630.4	3491.3	3040.4	2798.3	2784.0	2921.8	3353.4	3688.2	3576.4
27.5°	3768.3	3813.6	3958.3	3744.0	3134.8	2808.2	2784.6	2925.6	3430.4	3903.6	3890.0
30°	4042.7	4076.3	4161.4	3862.0	3216.2	2851.7	2824.3	2980.2	3464.6	4008.6	4144.0
32.5°	4263.8	4320.3	4347.0	3988.1	3332.9	2933.6	2887.1	3085.2	3547.8	4138.4	4410.4
35°	4516.6	4581.8	4547.6	4108.6	3486.9	3061.6	3004.4	3255.3	3673.9	4258.2	4719.6
37.5°	4837.0	4912.2	4778.6	4235.3	3649.6	3254.1	3227.4	3494.4	3865.1	4429.6	5051.3
40°	5168.6	5212.1	5002.8	4389.3	3849.6	3534.1	3559.6	3849.6	4115.4	4635.2	5404.0
42.5°	5427.6	5468.6	5233.2	4518.4	4053.9	3866.4	3972.6	4278.1	4402.3	4845.7	5667.3
45°	5625.7	5660.5	5392.8	4659.4	4329.6	4347.7	4548.2	4719.6	4689.8	4974.3	5870.4
47.5°	5779.7	5809.5	5515.8	4810.9	4742.6	4936.4	5243.1	5315.8	4987.9	5113.4	6054.2
50°	5843.0	5851.7	5554.3	5004.1	5211.5	5686.5	6006.4	5962.3	5329.5	5268.0	6249.8
52.5°	5925.6	5923.8	5664.2	5187.9	5652.4	6357.2	6676.4	6576.4	5715.7	5499.6	6469.6
55°	6142.4	6144.8	5899.6	5448.7	6028.1	6898.7	7240.3	7167.6	6123.1	5890.9	6726.1
57.5°	6405.7	6415.0	6234.3	5753.6	6387.0	7291.2	7661.3	7633.4	6673.9	6326.2	6968.3
59°	6439.8	6458.5	6392.6	5968.5	6600.0	7411.7	7805.4	7832.7	6968.9	6613.1	7099.3
60°	6377.7	6408.8	6438.6	6090.2	6724.9	7455.2	7814.1	7867.5	7190.6	6808.1	7158.9
62.5°	6107.0	6156.0	6305.7	6464.7	6880.7	7319.8	7536.5	7648.3	7465.1	7320.4	7164.5
65°	5752.4	5777.8	5993.9	6531.1	6578.3	6687.6	6754.7	6898.1	7135.4	7517.9	6908.1
67.5°	5171.1	5246.3	5510.8	6145.5	5685.9	5556.8	5540.0	5397.2	6013.2	7047.2	6275.9
70°	4271.9	4305.4	4631.5	5038.2	4291.1	4092.4	4171.9	4118.5	4661.3	6066.6	5051.3
72.5°	3230.5	3306.2	3624.8	4016.0	2920.0	2662.2	2881.5	2861.6	3501.2	4875.5	3470.2
75°	2298.3	2347.4	2753.5	3142.9	2045.0	1732.6	1811.5	1885.4	2444.3	3849.6	2050.6
77.5°	1579.2	1621.4	1926.4	2078.5	1491.7	1428.9	1307.2	1378.6	1601.6	2284.1	1115.9
80°	952.6	950.8	1151.3	1188.6	1038.9	1206.6	1012.2	1136.4	968.1	977.5	432.2
82.5°	618.5	612.3	704.2	767.6	578.2	608.0	408.0	588.1	630.9	272.6	136.6
85°	277.0	288.8	338.4	446.5	253.4	134.8	83.2	180.7	268.9	137.2	0.0
87.5°	28.6	22.4	59.6	108.7	34.8	3.7	12.4	6.2	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8
2.5°	2956.0	2920.0	2812.5	2711.9	2625.6	2520.0	2451.7	2344.3	2279.1	2259.2	2262.3
5°	2837.4	2733.7	2529.4	2366.0	2184.1	2080.4	1922.6	1771.1	1689.1	1658.7	1645.0
7.5°	2589.0	2477.8	2231.3	1974.8	1779.8	1597.8	1480.5	1347.0	1255.7	1180.5	1167.5
10°	2404.5	2258.6	1953.1	1677.3	1523.3	1386.7	1269.3	1135.8	1028.4	942.7	919.1
12.5°	2294.0	2130.7	1789.7	1558.7	1412.8	1272.4	1119.7	965.0	855.1	762.6	719.7
15°	2274.1	2084.7	1743.8	1473.6	1293.6	1124.0	921.0	753.9	640.9	553.3	526.6
17.5°	2394.0	2167.3	1737.0	1384.8	1137.7	897.4	686.2	547.7	420.4	371.4	352.1
20°	2607.6	2313.2	1736.3	1281.8	977.5	691.2	481.9	357.1	305.5	281.9	270.8
22.5°	2898.9	2512.0	1769.2	1193.0	811.0	509.8	344.0	284.4	254.6	235.4	231.0
25°	3254.7	2806.3	1850.0	1132.7	683.7	399.9	283.8	243.4	218.6	209.9	206.2
27.5°	3570.8	3088.3	1938.8	1070.6	592.4	354.0	263.3	222.9	203.1	196.2	190.6
30°	3843.4	3344.1	1981.6	988.6	519.2	324.2	267.0	238.5	212.4	191.9	182.6
32.5°	4070.7	3540.4	2009.6	914.1	457.1	265.2	211.1	184.4	172.6	165.2	159.0
35°	4355.1	3752.7	1992.8	871.9	425.4	241.6	192.5	159.0	139.1	124.2	118.0
37.5°	4653.2	3965.1	1963.6	837.1	411.1	224.2	183.2	150.9	129.2	113.6	105.6
40°	4961.8	4162.0	1929.5	804.8	398.1	213.0	177.6	144.1	122.3	105.6	96.9
42.5°	5244.4	4353.9	1915.8	783.7	377.0	214.9	173.3	141.0	115.5	98.1	90.7
45°	5472.9	4535.8	1934.4	772.5	354.0	211.8	174.5	137.2	109.9	93.2	85.7
47.5°	5717.0	4792.9	1994.7	761.4	331.6	196.9	183.8	136.6	107.4	90.0	82.0
50°	6000.8	5122.1	2132.5	734.0	304.3	180.7	195.6	136.0	104.3	86.3	78.2
52.5°	6379.0	5495.9	2274.7	686.2	264.5	165.2	186.9	134.1	98.1	82.0	73.9
55°	6718.7	5889.6	2395.2	629.7	214.2	142.8	168.3	126.1	87.6	74.5	67.1
57.5°	6859.0	6111.9	2391.5	551.5	171.4	125.4	138.5	115.5	76.4	65.8	59.6
59°	6807.5	6084.0	2311.4	493.7	156.5	116.1	114.9	114.3	71.4	59.6	54.6
60°	*6734.8*	*5982.1*	*2225.1*	*465.1*	*147.2*	*109.9*	*105.6*	*113.0*	*67.1*	*55.9*	*50.9*
62.5°	6456.6	5559.9	1938.8	416.7	134.8	93.2	84.5	95.6	59.6	48.4	44.1
65°	6053.6	4910.9	1641.3	403.0	131.0	77.0	70.2	68.3	50.9	41.0	37.3
67.5°	5267.4	4155.8	1329.6	393.7	132.3	64.6	61.5	51.5	42.2	34.2	31.7
70°	4217.2	3240.4	1088.6	383.2	133.5	52.8	51.5	41.0	34.2	28.6	26.1
72.5°	2562.3	1920.8	857.0	332.9	129.8	42.2	46.0	31.1	24.8	20.5	19.3
75°	1584.2	1314.7	531.6	259.0	85.7	31.1	32.3	19.3	16.8	13.0	13.0
77.5°	917.8	830.3	190.0	93.2	37.9	18.6	14.3	9.9	9.3	5.6	5.6
80°	380.7	304.9	65.8	31.7	20.5	8.7	3.1	0.6	0.0	0.0	0.0
82.5°	111.2	98.7	18.0	14.3	6.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8
2.5°	2209.5	2189.0	2179.7	2211.4	2182.2	2219.5	2190.9	2203.3	2240.0	2256.1	2297.7
5°	1653.7	1632.6	1622.7	1670.5	1668.0	1691.6	1689.1	1710.9	1729.5	1687.9	1730.7
7.5°	1152.0	1137.7	1161.3	1198.5	1238.3	1225.2	1225.2	1196.1	1206.0	1199.8	1197.9
10°	876.2	827.2	814.8	813.5	828.4	831.5	814.8	774.4	789.3	793.6	819.7
12.5°	689.3	651.4	593.7	567.6	560.8	566.4	511.1	475.7	492.5	482.5	508.0
15°	494.3	463.3	429.1	399.9	391.9	380.7	320.4	278.2	273.2	275.1	279.5
17.5°	352.7	331.6	331.6	300.6	283.8	250.3	219.8	201.2	199.3	201.2	204.3
20°	260.2	249.0	247.8	239.7	221.1	198.7	177.6	173.9	172.6	175.7	177.0
22.5°	224.2	212.4	202.4	201.8	184.4	165.8	155.9	150.9	151.5	152.8	155.9
25°	200.6	188.2	177.6	171.4	159.0	145.9	136.6	134.1	134.1	136.0	136.6
27.5°	183.8	168.3	159.0	150.3	139.1	127.9	119.9	118.0	116.7	118.0	121.1
30°	172.0	156.5	144.7	131.7	123.0	112.4	105.6	103.1	102.5	103.1	105.6
32.5°	147.2	137.9	128.5	116.7	106.2	99.4	91.9	87.6	87.6	88.8	91.3
35°	111.2	106.2	105.6	102.5	93.8	86.3	77.6	73.3	73.3	75.8	77.0
37.5°	98.1	88.8	87.6	86.3	82.6	72.7	64.6	60.9	60.2	62.1	64.6
40°	89.4	78.9	73.3	72.0	72.7	61.5	52.8	49.1	49.1	49.7	52.2
42.5°	82.6	70.2	60.2	59.0	61.5	51.5	42.8	39.1	39.1	39.1	42.2
45°	77.0	62.7	50.9	44.7	48.4	42.2	34.8	31.1	29.8	31.1	32.3
47.5°	73.3	57.1	44.7	36.0	36.0	33.5	27.9	23.6	22.4	23.0	24.8
50°	70.2	52.2	37.9	29.2	26.1	26.7	21.1	18.0	16.8	16.8	18.6
52.5°	65.2	47.2	32.9	24.8	19.9	18.0	15.5	13.0	12.4	13.0	14.3
55°	59.0	42.8	28.6	20.5	15.5	12.4	11.2	9.3	8.7	9.3	11.2
57.5°	52.2	36.0	23.0	16.1	10.6	8.1	7.5	6.2	5.0	5.6	6.8
59°	47.8	32.3	19.9	13.0	8.1	5.6	5.6	4.3	3.1	3.7	5.6
60°	*46.0*	*29.8*	*16.8*	*11.2*	*6.8*	*4.3*	*4.3*	*3.1*	*1.9*	*2.5*	*4.3*
62.5°	39.1	24.8	13.0	6.8	3.1	0.6	1.9	0.6	0.0	0.6	1.9
65°	32.9	19.9	8.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6
67.5°	27.3	14.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	21.7	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	14.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	9.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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

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

Scaled Data Report

REPORT NUMBER: P451768
CATALOG NUMBER: GALN-SA2C-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8	2731.8
2.5°	2300.2	2389.0	2443.7	2546.7	2652.3	2733.7	2835.5	2926.8	2964.7	2984.6
5°	1774.2	1897.8	2002.7	2159.9	2305.8	2483.4	2663.5	2875.9	2957.2	2978.3
7.5°	1245.1	1371.2	1481.1	1663.1	1871.1	2108.9	2378.5	2648.0	2766.6	2800.1
10°	899.2	1034.0	1168.1	1350.1	1544.4	1802.2	2082.9	2416.3	2553.0	2579.0
12.5°	567.6	712.3	930.3	1155.1	1360.6	1568.0	1861.8	2224.4	2375.3	2423.2
15°	329.1	437.2	601.8	894.9	1156.3	1430.8	1751.2	2152.4	2321.3	2370.4
17.5°	220.5	257.7	370.7	594.9	940.2	1304.1	1723.3	2211.4	2398.3	2461.0
20°	185.7	202.4	242.2	362.7	724.1	1191.1	1730.7	2371.6	2616.9	2695.2
22.5°	163.3	178.8	204.3	260.8	505.5	1050.7	1766.1	2600.8	2917.5	3017.5
25°	144.1	159.6	182.0	216.1	339.7	888.7	1843.8	2936.1	3315.5	3425.5
27.5°	127.9	142.2	161.5	190.6	261.4	707.9	1912.7	3262.8	3678.8	3768.3
30°	113.0	124.8	143.5	165.8	217.4	545.9	1947.5	3548.4	3943.4	4042.7
32.5°	98.1	109.3	127.3	145.3	178.8	416.1	1923.3	3758.3	4200.5	4263.8
35°	83.8	95.6	110.5	127.3	154.6	336.0	1802.2	3994.3	4466.9	4516.6
37.5°	72.0	82.0	97.5	110.5	139.7	268.9	1655.6	4206.7	4765.6	4837.0
40°	60.9	70.8	86.3	98.1	128.5	211.8	1523.3	4442.7	5080.4	5168.6
42.5°	49.7	61.5	75.1	94.4	110.5	161.5	1363.1	4633.9	5317.0	5427.6
45°	39.7	52.8	67.7	93.8	96.3	123.0	1208.5	4783.0	5526.3	5625.7
47.5°	31.7	44.7	65.2	87.6	78.9	97.5	1120.3	4938.9	5700.2	5779.7
50°	25.5	37.3	68.3	77.0	65.8	82.6	1117.8	5112.7	5790.3	5843.0
52.5°	20.5	30.4	57.8	59.0	55.9	72.7	1184.9	5308.4	5882.2	5925.6
55°	17.4	25.5	37.9	43.5	50.3	65.8	1235.2	5609.5	6101.4	6142.4
57.5°	13.7	21.7	29.2	34.8	44.7	60.2	1242.0	5841.8	6379.0	6405.7
59°	11.8	18.6	26.1	31.1	41.0	56.5	1214.1	5856.1	6397.0	6439.8
60°	*9.9*	*16.8*	*23.0*	*29.2*	*37.9*	*53.4*	*1183.6*	*5752.4*	*6329.9*	*6377.7*
62.5°	7.5	13.0	16.8	23.6	31.1	46.0	1039.6	5390.3	6073.4	6107.0
65°	5.0	9.3	12.4	17.4	24.2	39.7	847.1	4920.8	5677.2	5752.4
67.5°	3.1	6.8	9.9	13.0	19.9	33.5	603.6	4219.7	5122.7	5171.1
70°	1.9	4.3	7.5	10.6	15.5	26.7	358.3	3335.4	4262.0	4271.9
72.5°	1.2	3.1	5.0	7.5	12.4	24.2	173.9	2174.1	3111.9	3230.5
75°	0.6	1.9	3.1	5.6	9.9	19.9	83.2	1452.5	2264.2	2298.3
77.5°	0.0	0.6	1.9	3.7	7.5	15.5	48.4	953.9	1543.8	1579.2
80°	0.0	0.0	1.2	3.1	5.6	9.9	29.2	562.6	935.2	952.6
82.5°	0.0	0.0	0.6	2.5	3.7	7.5	14.9	247.2	612.3	618.5
85°	0.0	0.0	0.6	2.5	3.1	5.0	5.6	33.5	272.0	277.0
87.5°	0.0	0.0	0.6	3.1	3.1	3.1	3.1	1.9	23.0	28.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)