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: P950817

Luminaire Tested: **GALN-SB5A-930-U-AFL-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

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

Test Information

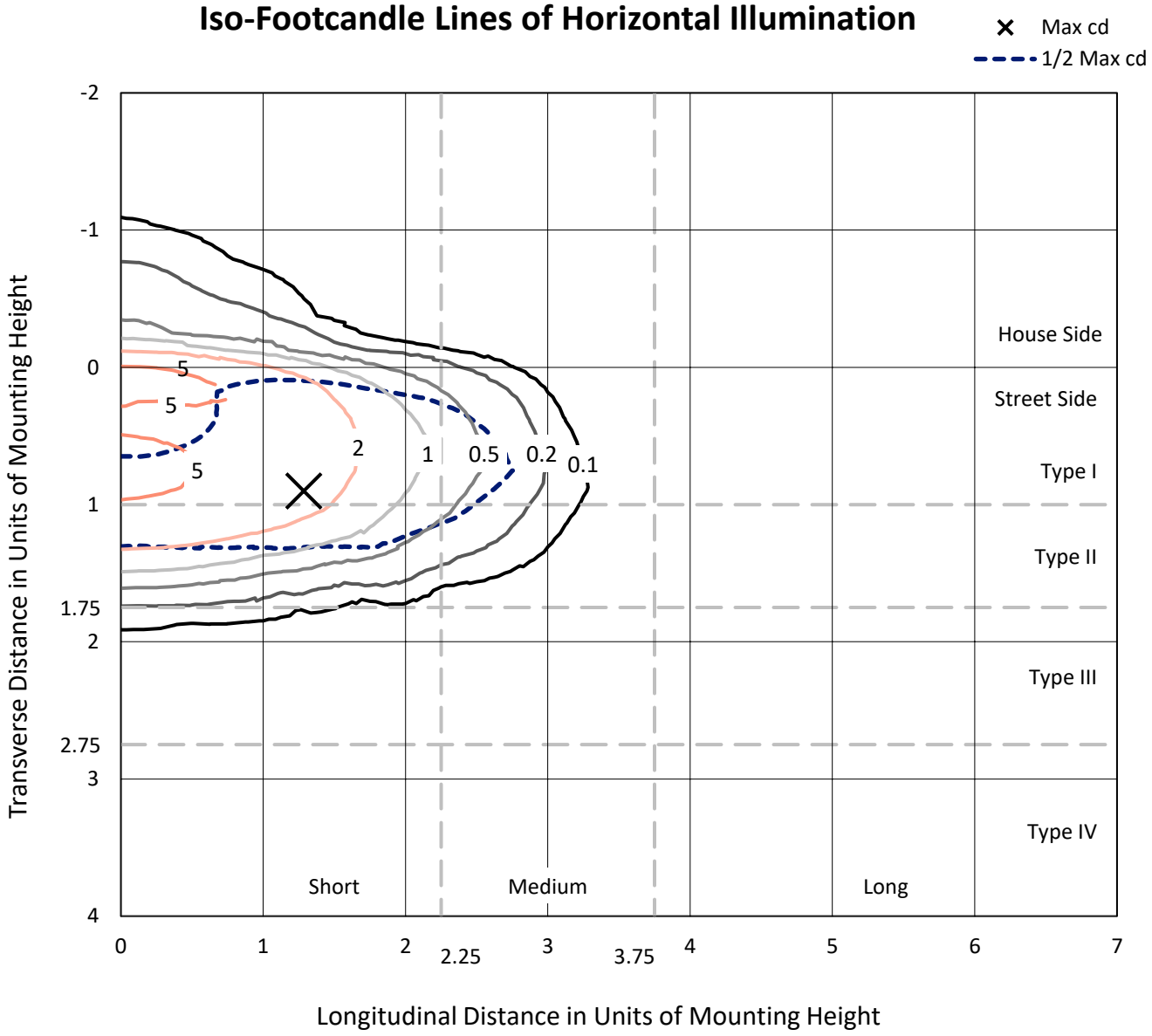
Test Method:	LM-79-08
Report Number:	P950817
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB5A-930-U-AFL-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(5) 90 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13440 lumens
Efficiency:	N/A
Efficacy:	94.8 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G2
Input Watts (W):	141.7
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

REPORT NUMBER: P950817
CATALOG NUMBER: GALN-SB5A-930-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

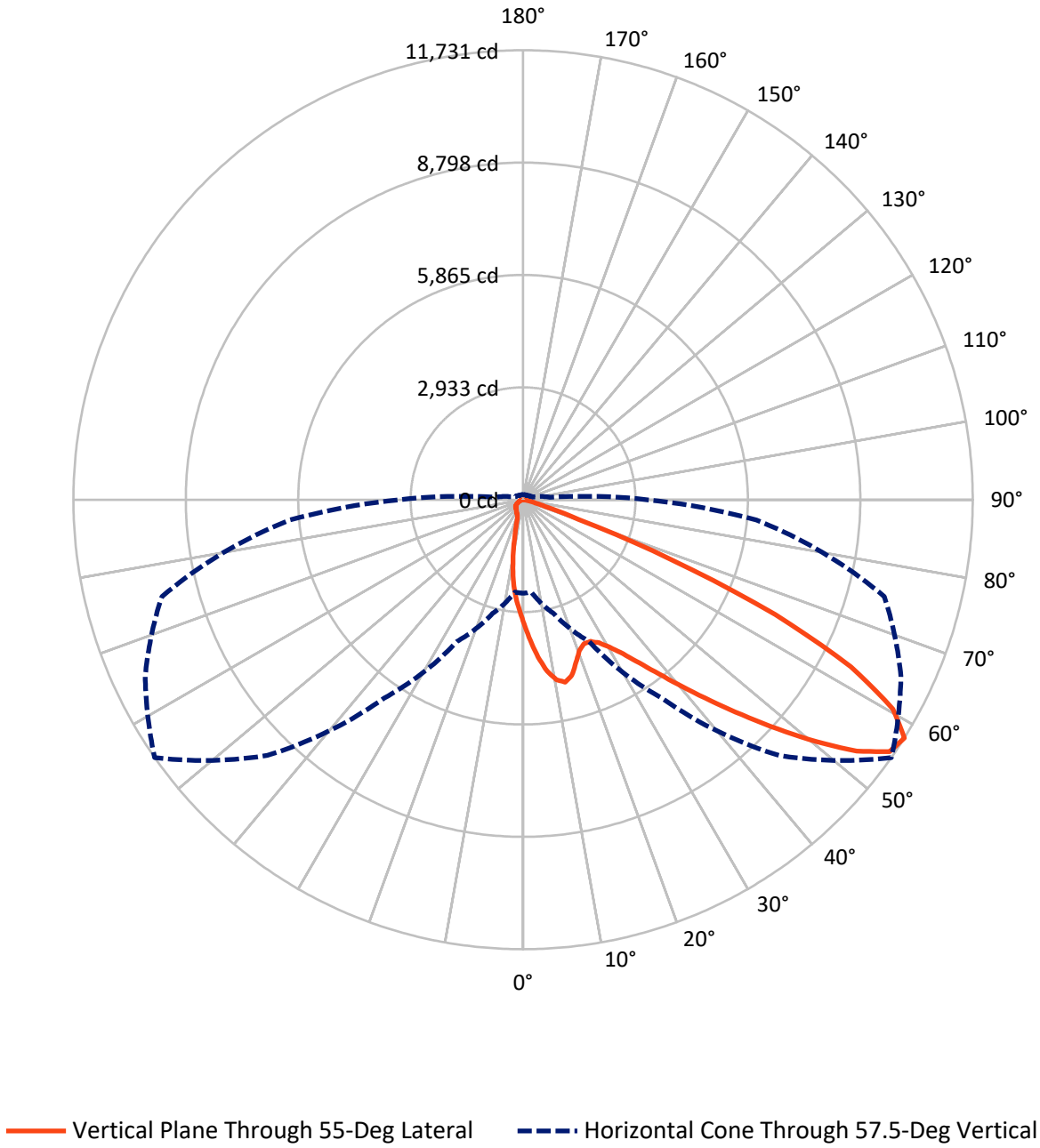


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type II - Short - N/A

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

REPORT NUMBER: P950817
CATALOG NUMBER: GALN-SB5A-930-U-AFL-HSS

Luminous Intensity Polar Plot



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

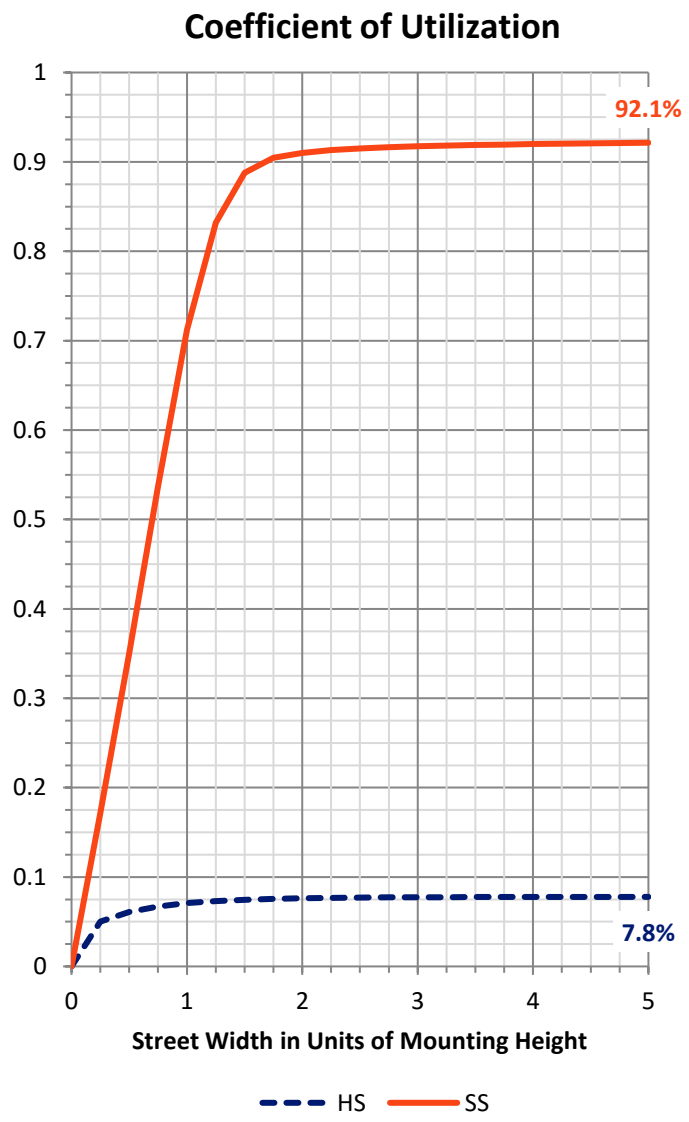
REPORT NUMBER: P950817
CATALOG NUMBER: GALN-SB5A-930-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1049.6	0.0	1049.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	12390.4	0.0	12390.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	13440.0	0.0	13440.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.3	2.2
10°-20°	727.9	5.4
20°-30°	1164.6	8.7
30°-40°	1971.2	14.7
40°-50°	3236.3	24.1
50°-60°	3556.9	26.5
60°-70°	2040.2	15.2
70°-80°	416.9	3.1
80°-90°	24.6	0.2
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°	13440.0	100.0
0°-180°	13440.0	100.0

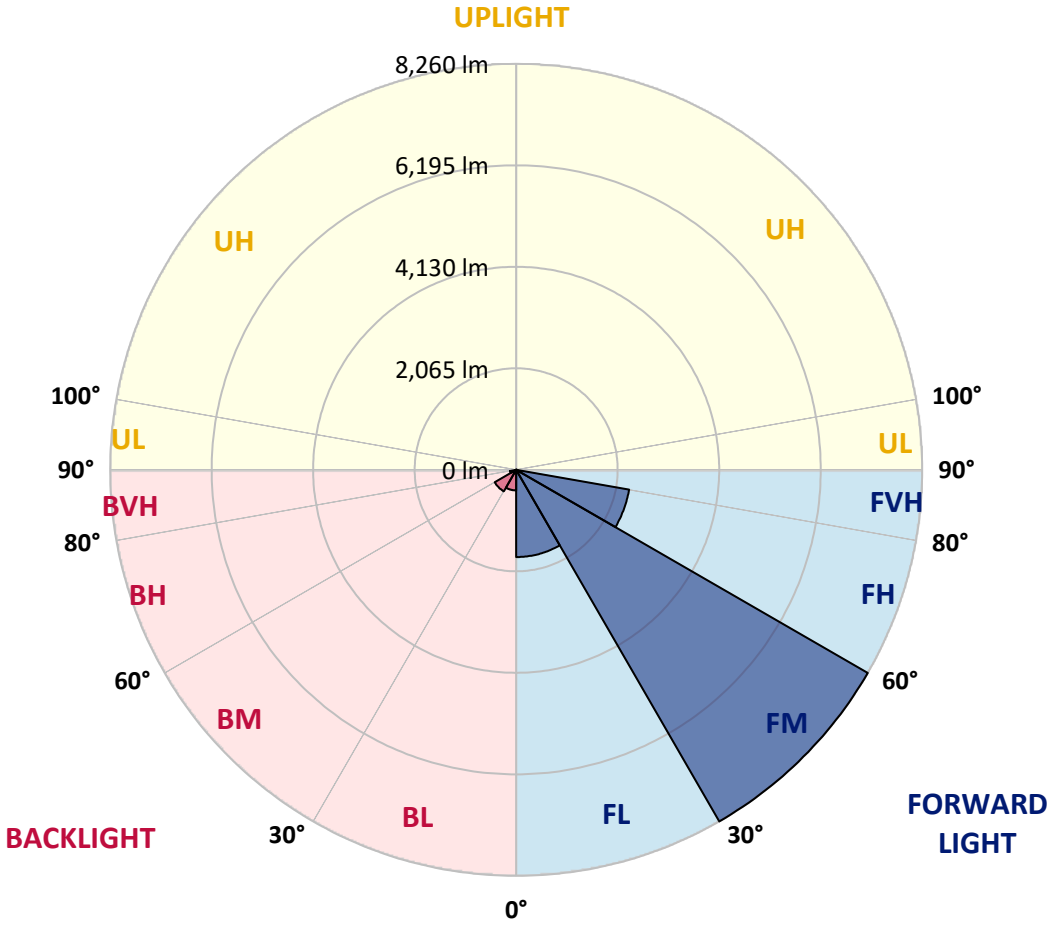


REPORT NUMBER: P950817
CATALOG NUMBER: GALN-SB5A-930-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1774.8	13.2			
FM	(30°-60°)	8260.3	61.5			
FH	(60°-80°)	2332.3	17.4			G2/5000
FVH	(80°-90°)	22.9	0.2			G1/100
BL	(0°-30°)	419.0	3.1	B1/500		
BM	(30°-60°)	504.1	3.8	B1/1000		
BH	(60°-80°)	124.8	0.9	B1/500		G1/500
BVH	(80°-90°)	1.7	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 II Short



REPORT NUMBER: P950817
CATALOG NUMBER: GALN-SB5A-930-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3238.7	3238.7	3238.7	3238.7	3238.7	3238.7	*3238.7*	3238.7	3238.7	3238.7
2.5°	4018.6	3968.0	3960.5	3950.6	3854.5	3782.4	*3677.9*	3563.6	3435.1	3304.2
5°	4642.6	4602.8	4595.4	4548.9	4439.6	4316.9	*4131.3*	3896.7	3657.2	3375.5
7.5°	4763.6	4756.1	4790.1	4788.4	4773.5	4676.6	*4519.9*	4240.7	3881.0	3463.3
10°	4224.1	4243.1	4344.2	4432.9	4672.4	4811.7	*4777.7*	4547.3	4111.4	3563.6
12.5°	3732.6	3710.3	3782.4	3882.6	4161.1	4575.5	*4884.6*	4803.4	4374.9	3677.1
15°	3424.3	3415.2	3455.8	3502.2	3714.4	4132.1	*4760.3*	5011.4	4628.5	3811.4
17.5°	3325.7	3318.3	3330.7	3342.3	3479.9	3803.1	*4464.4*	5139.0	4871.3	3964.7
20°	3406.1	3396.2	3394.5	3385.4	3442.6	3663.0	*4196.7*	5148.1	5089.3	4103.9
22.5°	3640.6	3629.0	3588.4	3552.0	3556.9	3682.1	*4077.4*	5057.0	5253.4	4234.0
25°	4065.8	4046.7	3962.2	3839.5	3761.6	3814.7	*4095.6*	4936.8	5410.0	4336.0
27.5°	4597.8	4573.0	4464.4	4282.1	4103.9	4039.3	*4227.4*	4853.9	5540.1	4413.9
30°	5119.1	5086.8	4979.9	4838.2	4577.9	4374.1	*4465.2*	4890.4	5695.1	4495.1
32.5°	5681.8	5651.2	5509.5	5333.8	5118.3	4844.0	*4790.9*	5068.6	5884.9	4608.6
35°	6393.7	6345.6	6144.3	5904.8	5676.0	5398.4	*5231.8*	5376.0	6137.6	4781.8
37.5°	7204.2	7139.6	6922.4	6591.8	6293.4	5982.7	*5768.8*	5798.7	6508.1	5013.9
40°	7968.3	7909.5	7708.9	7397.3	7022.7	6645.7	*6417.7*	6351.4	7019.4	5296.5
42.5°	8426.6	8373.6	8289.0	8157.3	7841.5	7457.0	*7169.4*	7026.0	7624.4	5634.6
45°	8452.3	8405.9	8519.4	8672.7	8610.6	8354.5	*8004.0*	7741.2	8231.9	5952.0
47.5°	8041.2	8009.8	8354.5	8889.9	9156.7	9264.5	*8941.3*	8396.8	8733.2	6179.9
50°	6920.8	6909.2	7618.6	8601.5	9364.7	10061.7	*9929.9*	9006.7	9121.9	6297.6
52.5°	6000.9	5958.6	6372.2	7678.3	9062.3	10481.1	*10896.2*	9605.1	9393.7	6320.0
55°	4551.4	4514.1	5032.9	6133.5	8086.8	10331.9	*11603.2*	10222.5	9588.5	6262.8
57.5°	*2441.5*	*2418.3*	*3073.8*	*4082.4*	*6321.6*	*9436.8*	*11730.8*	*10875.5*	*9752.6*	*6111.1*
60°	950.6	946.4	1191.7	1980.7	3842.0	7677.4	*11086.9*	11267.5	9855.4	5924.6
62.5°	575.1	587.6	627.4	889.2	1697.3	4769.4	*9602.6*	10821.7	9924.1	5753.9
65°	475.7	476.5	481.5	610.8	813.0	1995.6	*7229.1*	9354.8	9754.2	5449.8
67.5°	407.7	415.2	434.3	484.8	573.5	875.1	*4161.9*	7246.5	8720.8	4742.0
70°	321.6	331.5	355.5	398.6	442.5	547.8	*1538.1*	4821.6	6662.2	3574.3
72.5°	271.0	270.2	282.6	324.0	351.4	385.4	*591.7*	2701.7	3871.9	1706.4
75°	209.7	218.0	233.7	271.0	287.6	279.3	*320.7*	987.0	1387.3	517.1
77.5°	164.1	170.7	184.8	221.3	237.8	198.1	*184.8*	353.0	445.9	185.6
80°	73.8	79.6	126.0	163.3	193.9	136.7	*100.3*	180.7	198.1	84.5
82.5°	13.3	22.4	73.8	86.2	99.4	88.7	*52.2*	93.6	97.0	34.0
85°	0.8	1.7	25.7	31.5	39.8	29.0	*15.7*	37.3	32.3	11.6
87.5°	0.0	0.0	0.0	0.8	0.8	4.1	*5.0*	6.6	5.0	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0

REPORT NUMBER: P950817
CATALOG NUMBER: GALN-SB5A-930-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3238.7	0°	3238.7	3238.7	3238.7	3238.7	3238.7	3238.7	3238.7	3238.7	3238.7	3238.7
3246.2	2.5°	3186.5	3068.8	2954.5	2860.8	2806.1	2713.3	2652.0	2642.0	2616.3	2638.7
3254.5	5°	3125.2	2914.7	2701.7	2511.1	2354.4	2152.2	2001.4	1937.6	1882.1	1901.1
3276.0	7.5°	3096.2	2763.8	2432.3	2106.7	1771.8	1448.6	1208.3	1108.0	1031.8	1042.6
3300.0	10°	3057.2	2607.2	2087.6	1590.3	1142.0	822.9	657.2	595.9	561.9	562.7
3335.7	12.5°	3027.4	2419.9	1687.3	1078.2	695.3	525.4	474.0	459.1	449.2	450.0
3389.5	15°	3012.5	2199.5	1292.0	718.5	497.2	445.0	432.6	426.0	419.3	418.5
3449.2	17.5°	2987.6	1954.2	945.6	524.6	435.1	416.9	406.1	398.6	390.3	388.7
3500.6	20°	2950.3	1675.7	691.2	443.4	407.7	393.7	378.7	368.8	358.8	357.2
3532.9	22.5°	2881.5	1381.5	531.2	410.2	387.8	372.1	353.9	342.3	332.3	330.7
3517.2	25°	2753.9	1105.5	447.5	389.5	370.4	351.4	331.5	315.7	306.6	305.0
3483.2	27.5°	2592.3	868.5	406.1	370.4	348.1	330.7	308.3	293.4	285.1	283.4
3438.4	30°	2401.7	668.8	382.0	348.9	321.6	306.6	286.7	274.3	269.3	269.3
3406.9	32.5°	2196.2	534.5	372.1	327.4	298.3	281.8	266.0	261.1	259.4	258.6
3424.3	35°	2003.1	464.1	367.1	309.9	277.6	261.9	255.3	256.1	259.4	259.4
3478.2	37.5°	1831.5	441.7	364.6	297.5	259.4	245.3	249.5	256.9	253.6	253.6
3572.7	40°	1676.5	444.2	363.0	288.4	244.5	236.2	244.5	238.7	230.4	229.6
3687.9	42.5°	1558.0	464.9	359.7	280.9	235.4	229.6	226.2	217.1	216.3	218.0
3807.2	45°	1471.8	483.2	358.8	277.6	225.4	214.6	210.5	201.4	218.0	222.1
3856.1	47.5°	1369.9	483.2	358.8	266.0	208.8	204.7	198.1	188.1	204.7	208.8
3809.7	50°	1238.1	452.5	344.8	252.8	195.6	193.1	181.5	169.1	165.7	168.2
3701.1	52.5°	1071.6	397.0	309.1	234.5	182.3	177.3	163.3	154.1	151.7	151.7
3506.4	55°	881.8	332.3	261.1	208.0	168.2	159.1	149.2	145.0	142.5	140.9
3233.7	57.5°	*716.9*	*272.7*	*209.7*	*184.8*	*155.0*	*143.4*	*140.1*	*135.1*	*130.9*	*128.5*
3005.8	60°	588.4	214.6	173.2	164.1	141.7	130.9	130.1	123.5	112.7	111.1
2817.7	62.5°	454.1	157.5	145.9	142.5	128.5	119.3	117.7	104.4	87.8	84.5
2550.9	65°	320.7	122.7	117.7	125.1	114.4	106.1	101.9	82.0	64.6	62.2
2134.8	67.5°	225.4	102.8	92.8	109.4	99.4	88.7	86.2	69.6	53.9	52.2
1614.4	70°	160.8	83.7	76.2	93.6	79.6	77.9	72.9	58.0	43.9	42.3
798.9	72.5°	113.5	63.8	58.8	81.2	54.7	67.1	59.7	44.8	33.1	31.5
271.8	75°	83.7	45.6	41.4	47.2	39.8	50.6	42.3	29.8	20.7	19.9
122.7	77.5°	61.3	29.0	24.9	23.2	23.2	31.5	23.2	12.4	9.1	8.3
62.2	80°	43.1	13.3	11.6	9.9	9.1	7.5	3.3	1.7	0.8	0.8
21.5	82.5°	25.7	5.8	5.8	4.1	2.5	0.0	0.0	0.0	0.0	0.0
8.3	85°	5.8	2.5	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
3.3	87.5°	0.8	0.8	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

(END OF RI

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