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

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: P945436

Luminaire Tested: **GALN-SB1B-850-U-T3R**

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:	P945436
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB1B-850-U-T3R
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(1) 80 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

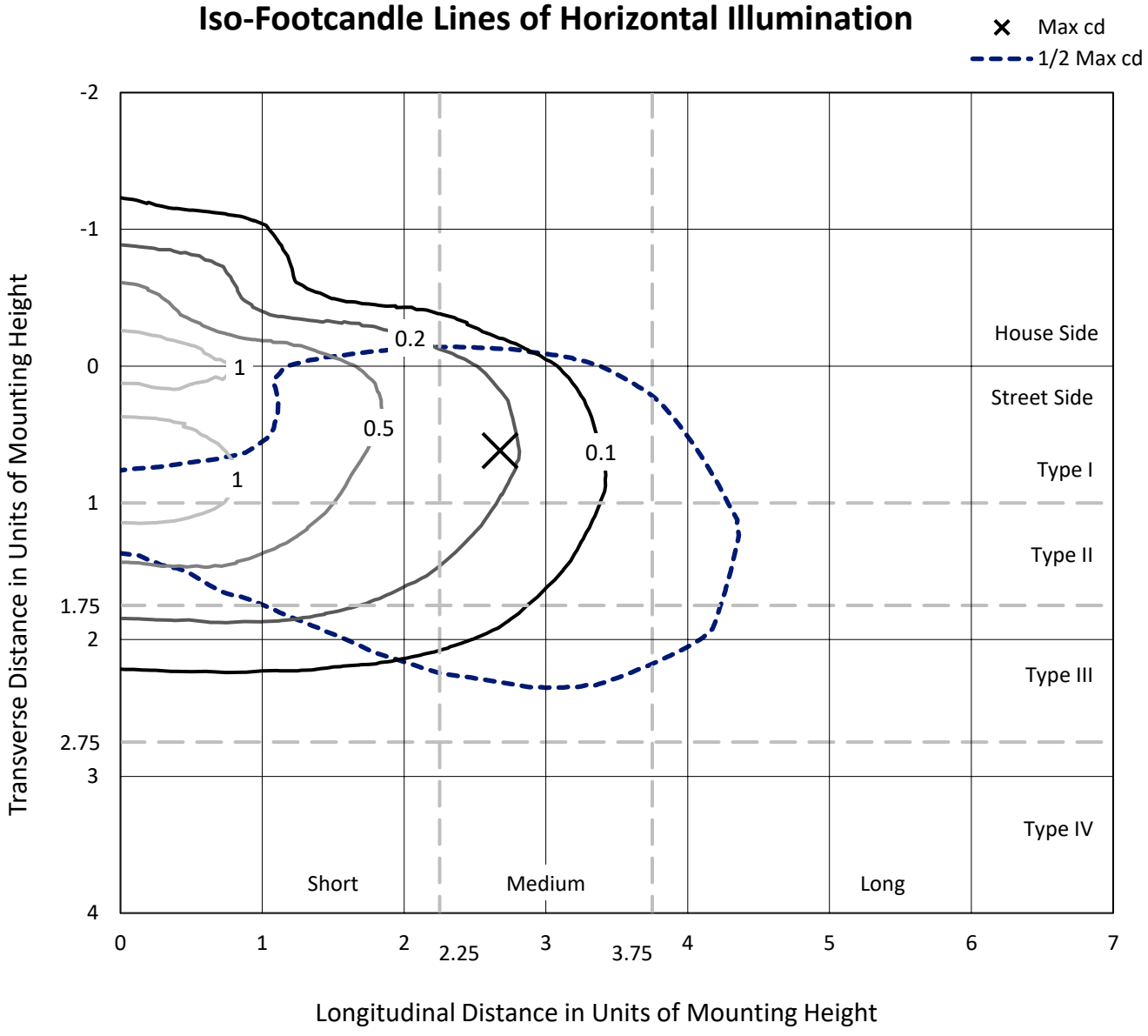
Lumens per Lamp:	N/A
Luminaire Lumens:	5531 lumens
Efficiency:	N/A
Efficacy:	139.0 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B1 - U0 - G1

Input Watts (W):	39.8
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

REPORT NUMBER: P945436
CATALOG NUMBER: GALN-SB1B-850-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

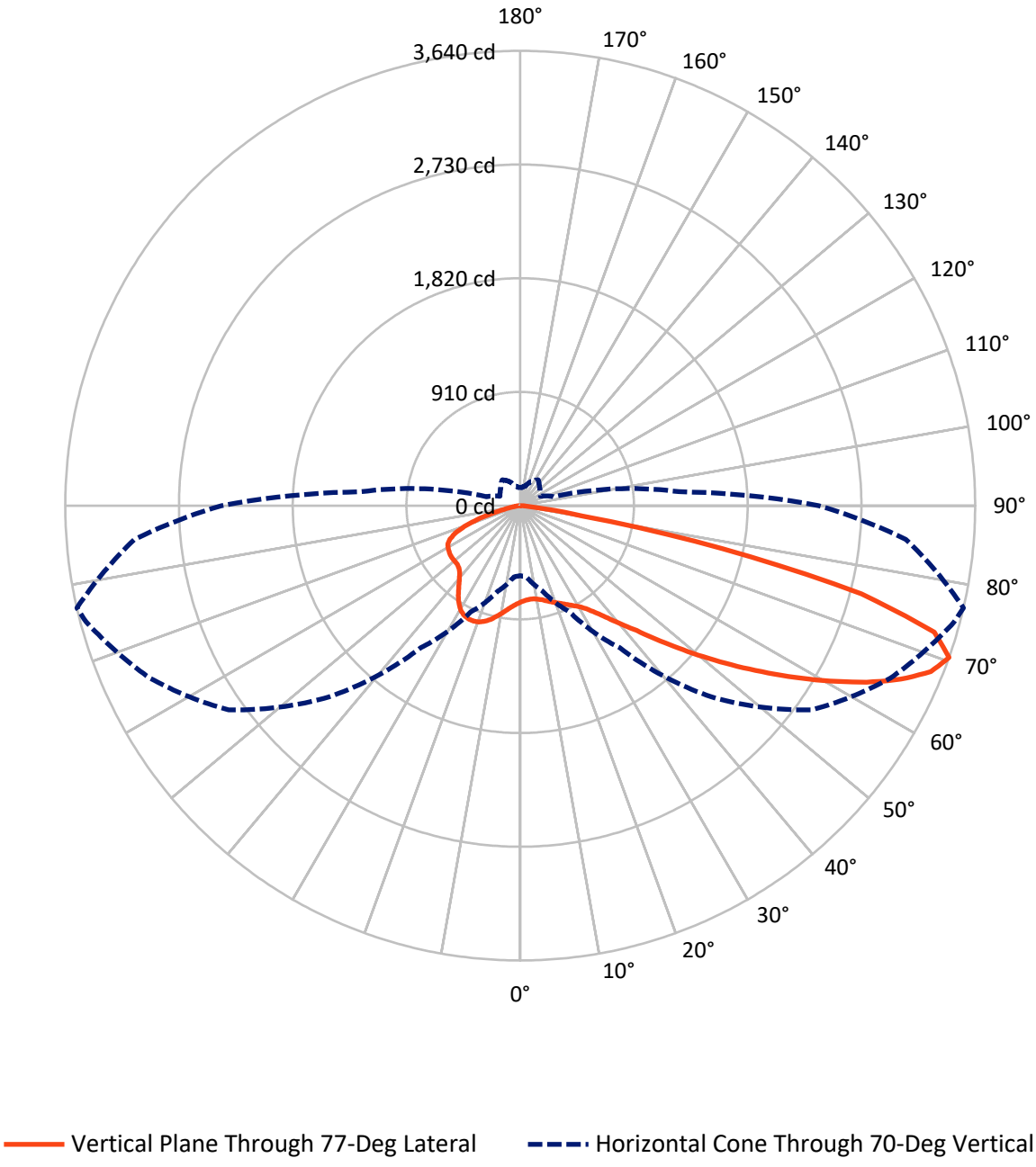


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type III - Medium - N/A

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

REPORT NUMBER: P945436
CATALOG NUMBER: GALN-SB1B-850-U-T3R

Luminous Intensity Polar Plot



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

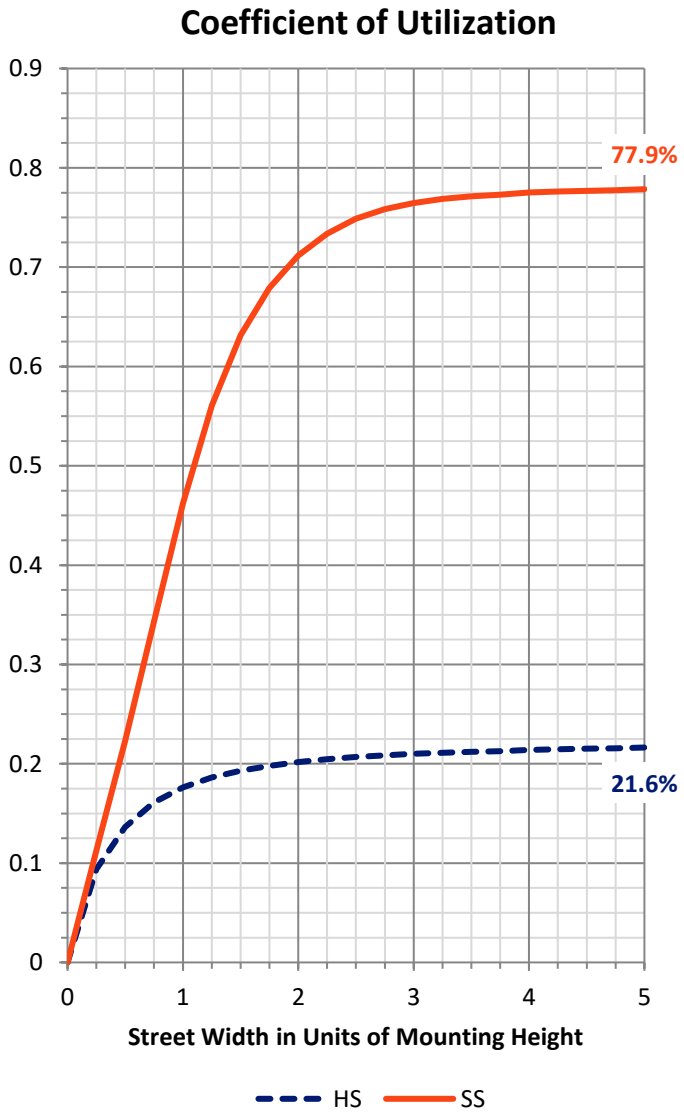
REPORT NUMBER: P945436
CATALOG NUMBER: GALN-SB1B-850-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1211.2	0.0	1211.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4319.8	0.0	4319.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	5531.0	0.0	5531.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	1.3
10°-20°	212.4	3.8
20°-30°	363.2	6.6
30°-40°	584.1	10.6
40°-50°	911.9	16.5
50°-60°	1218.1	22.0
60°-70°	1298.3	23.5
70°-80°	799.2	14.5
80°-90°	70.0	1.3
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°	5531.0	100.0
0°-180°	5531.0	100.0



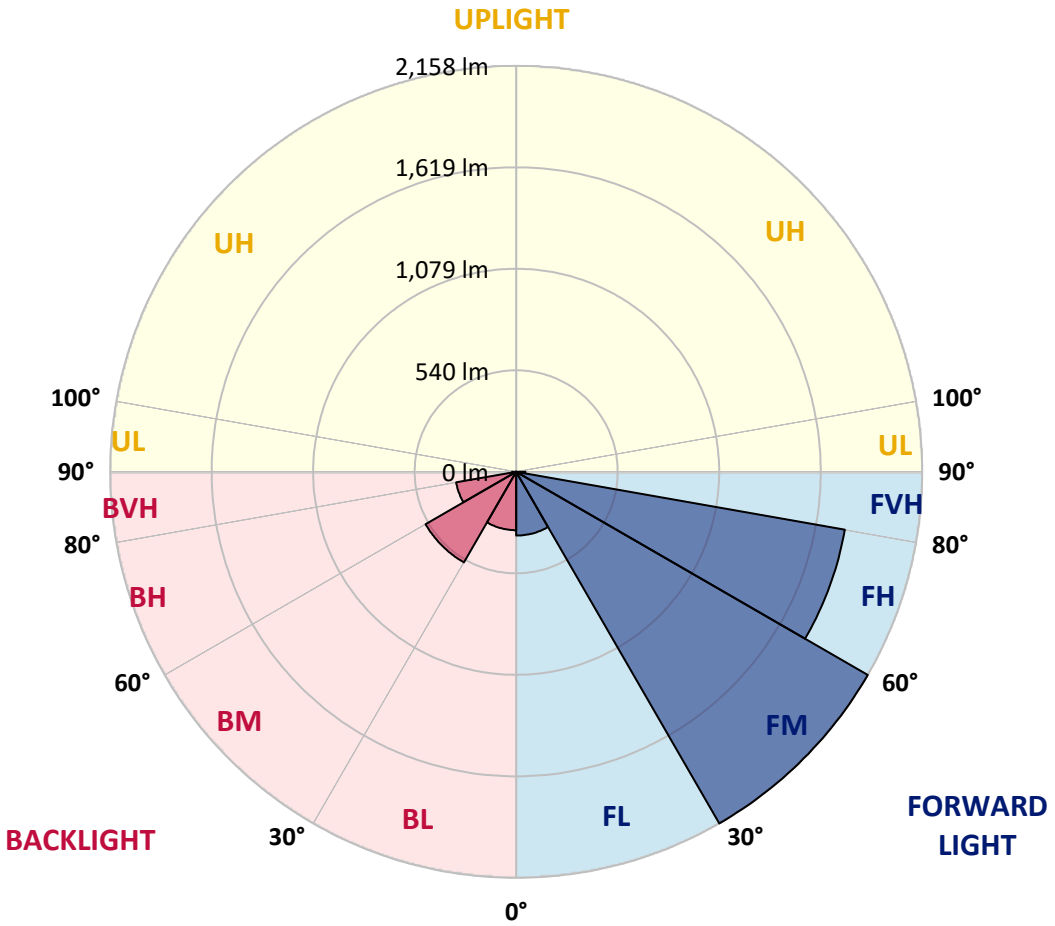
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: P945436
CATALOG NUMBER: GALN-SB1B-850-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	338.9	6.1			
FM	(30°-60°)	2158.1	39.0			
FH	(60°-80°)	1773.9	32.1			G1/1800
FVH	(80°-90°)	49.0	0.9			G1/100
BL	(0°-30°)	310.3	5.6	B1/500		
BM	(30°-60°)	556.1	10.1	B1/1000		
BH	(60°-80°)	323.7	5.9	B1/500		G1/500
BVH	(80°-90°)	21.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type III Medium



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

REPORT NUMBER: P945436
CATALOG NUMBER: GALN-SB1B-850-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	771.6	771.6	771.6	771.6	771.6	771.6	771.6	771.6	771.6	771.6
2.5°	711.3	711.0	714.7	715.8	722.6	727.4	736.5	746.1	758.6	760.0
5°	670.2	670.2	674.5	679.0	687.8	697.4	711.3	728.0	749.5	752.9
7.5°	635.4	637.6	641.3	650.1	660.3	674.2	695.4	719.2	747.5	752.9
10°	607.3	609.9	614.4	621.5	636.8	656.1	683.8	714.4	752.4	760.9
12.5°	598.5	601.1	603.6	609.0	623.2	645.9	679.0	716.7	764.0	772.5
15°	618.9	622.1	620.1	618.7	626.0	646.7	681.3	724.9	778.4	790.6
17.5°	666.0	667.1	662.6	649.3	648.1	659.2	692.0	736.2	796.6	809.9
20°	741.9	739.9	730.6	704.2	689.2	686.9	710.4	753.2	815.2	829.4
22.5°	845.0	842.7	824.0	782.4	749.0	726.9	737.1	775.3	836.2	852.1
25°	973.6	970.5	943.0	886.3	834.5	779.8	773.3	804.5	862.0	876.7
27.5°	1123.7	1121.2	1091.4	1016.7	941.9	852.4	818.4	838.8	888.9	905.6
30°	1285.2	1292.6	1239.9	1159.4	1064.8	947.0	879.0	881.0	923.7	938.8
32.5°	1475.0	1487.7	1424.3	1322.3	1193.1	1049.8	955.5	939.9	974.4	986.9
35°	1663.1	1677.5	1624.8	1512.1	1363.4	1171.0	1035.3	1007.6	1041.9	1055.5
37.5°	1825.7	1844.9	1817.7	1719.7	1545.5	1317.2	1139.6	1087.2	1124.9	1141.9
40°	1954.0	1983.5	1981.5	1920.3	1760.2	1494.5	1271.9	1185.5	1228.0	1246.4
42.5°	2058.2	2083.7	2105.8	2102.7	1984.3	1695.9	1427.4	1313.2	1345.5	1366.8
45°	2130.2	2157.4	2205.0	2256.2	2199.9	1911.5	1605.6	1464.8	1494.2	1526.3
47.5°	2194.5	2225.4	2287.1	2368.4	2382.9	2127.9	1800.7	1641.3	1668.2	1701.3
50°	2200.2	2226.8	2322.5	2437.8	2512.9	2335.8	2010.4	1839.3	1864.5	1899.9
52.5°	2063.3	2105.3	2272.4	2435.8	2572.6	2509.8	2218.6	2045.2	2073.5	2116.0
55°	1601.6	1663.1	2125.4	2359.9	2551.4	2622.2	2416.6	2264.2	2300.4	2344.9
57.5°	1379.5	1406.4	1687.2	2221.7	2454.5	2651.4	2583.7	2485.4	2543.8	2592.5
60°	1239.9	1262.2	1428.2	2006.7	2327.1	2605.2	2712.9	2691.6	2792.5	2850.5
62.5°	1090.3	1111.5	1262.5	1675.5	2163.9	2528.5	2794.4	2882.0	3047.4	3110.9
65°	941.9	960.0	1104.7	1407.8	1956.5	2451.7	2836.7	3046.6	3283.4	3349.1
67.5°	776.4	791.5	928.3	1187.7	1704.4	2346.6	2857.6	3176.0	3488.7	3545.1
70°	560.3	571.9	713.3	939.3	1388.0	2165.9	2849.1	3267.8	3595.3	3640.3
72.5°	264.9	275.3	441.3	609.9	980.4	1814.1	2677.2	3195.0	3487.0	3464.7
75°	141.4	150.4	253.5	334.5	517.8	1243.6	2190.8	2752.2	2928.2	2819.4
77.5°	95.7	102.8	156.9	200.8	236.5	590.3	1408.1	1905.6	1833.3	1653.7
80°	75.9	83.3	128.6	136.0	114.4	213.3	581.8	882.1	633.7	506.8
82.5°	58.4	66.6	108.2	98.6	62.3	87.5	169.4	279.0	162.3	123.5
85°	35.7	44.5	85.0	62.9	35.1	39.9	57.5	77.6	49.6	41.4
87.5°	18.1	25.5	43.1	22.9	15.9	9.3	15.3	15.3	13.0	11.3
90°	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

REPORT NUMBER: P945436
CATALOG NUMBER: GALN-SB1B-850-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
771.6	0°	771.6	771.6	771.6	771.6	771.6	771.6	771.6	771.6	771.6	771.6
767.7	2.5°	774.5	780.1	789.8	798.8	805.9	812.7	819.5	823.2	824.3	828.8
771.9	5°	783.5	794.0	812.7	830.3	841.3	848.1	852.9	855.8	856.3	857.7
783.5	7.5°	800.2	816.9	843.0	860.6	868.8	868.2	866.2	859.2	856.3	853.8
800.5	10°	823.7	845.8	877.9	890.0	884.9	871.3	853.8	833.1	823.5	814.1
823.7	12.5°	852.9	881.0	912.4	911.8	886.6	851.8	811.0	779.3	759.2	744.7
852.4	15°	888.3	920.6	944.7	925.4	870.2	807.6	747.8	706.5	688.3	672.5
881.3	17.5°	924.9	959.4	970.5	921.2	828.8	742.2	674.5	641.9	624.0	615.5
912.4	20°	960.6	994.8	985.8	896.8	766.0	667.9	607.6	589.8	586.1	588.1
942.7	22.5°	998.2	1028.8	988.9	849.8	685.8	592.0	558.9	559.5	567.7	573.6
974.4	25°	1036.8	1057.4	980.7	781.8	599.7	536.2	528.0	537.1	553.2	564.8
1010.1	27.5°	1073.9	1082.9	962.8	697.7	525.7	496.3	497.7	516.4	540.8	556.9
1053.5	30°	1115.8	1105.6	928.6	603.1	474.5	462.0	473.9	495.7	520.1	534.5
1108.1	32.5°	1163.1	1125.1	874.2	515.5	438.2	434.5	454.1	468.2	479.0	483.3
1180.7	35°	1222.0	1152.6	804.5	454.1	405.6	414.4	433.1	426.0	421.8	419.5
1278.1	37.5°	1298.5	1189.7	722.9	414.1	379.3	400.0	407.6	385.5	368.8	360.6
1396.2	40°	1390.6	1244.1	644.4	383.3	362.6	387.5	374.2	347.6	326.3	314.7
1529.1	42.5°	1492.8	1301.1	578.4	360.0	353.2	377.3	349.6	317.8	283.6	279.9
1687.4	45°	1600.2	1359.7	533.4	342.2	348.7	368.5	335.4	284.1	259.8	274.8
1846.3	47.5°	1707.5	1413.5	506.2	328.9	346.4	358.6	322.9	265.4	248.1	270.0
2016.6	50°	1827.1	1461.7	494.0	319.2	343.9	354.7	304.2	260.6	236.0	250.4
2192.8	52.5°	1945.8	1499.1	485.0	309.6	340.2	351.5	295.2	254.9	221.2	222.1
2370.1	55°	2064.2	1523.4	475.0	296.9	332.0	344.7	294.3	248.7	210.2	206.2
2557.6	57.5°	2190.5	1537.3	462.9	282.7	317.8	327.5	293.5	243.9	206.8	200.3
2749.4	60°	2319.1	1557.7	447.0	265.4	298.8	306.8	291.5	242.2	204.8	193.8
2930.1	62.5°	2434.4	1564.8	428.0	249.0	274.5	286.4	287.2	240.8	199.4	180.4
3080.3	65°	2510.0	1534.2	394.9	230.3	248.1	265.4	279.0	236.0	189.8	170.8
3154.5	67.5°	2506.9	1446.9	343.0	206.2	222.6	242.2	267.1	227.7	178.2	158.9
3098.4	70°	*2390.2*	*1274.7*	*277.3*	*178.2*	*194.6*	*217.3*	*251.8*	*215.6*	*164.3*	*145.9*
2755.1	72.5°	2050.0	997.7	201.4	145.3	162.0	191.5	232.0	200.8	150.1	134.3
2036.1	75°	1464.5	631.4	136.5	111.6	126.1	162.3	207.4	183.6	137.1	134.8
1019.8	77.5°	748.1	301.7	90.4	81.6	87.8	128.0	174.2	164.0	139.1	111.3
290.1	80°	243.3	111.3	56.9	55.5	58.4	85.3	134.8	134.6	105.4	75.6
70.3	82.5°	77.6	47.9	37.1	35.7	34.3	53.5	94.0	106.5	71.1	47.9
25.2	85°	30.9	28.6	21.8	20.1	14.4	25.2	49.3	70.8	53.0	34.6
6.5	87.5°	11.3	11.3	5.9	4.2	3.1	8.5	13.3	21.2	30.3	17.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

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

180°
771.6
831.4
860.0
854.3
811.3
741.3
670.8
618.1
587.2
575.0
568.0
560.9
537.9
485.5
421.8
362.6
315.6
283.6
282.7
280.2
261.2
228.0
209.1
201.1
194.6
180.4
170.8
159.8
147.6
133.4
127.2
99.1
66.9
47.6
35.4
17.6
0.0

F REPORT)