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: P939848

Luminaire Tested: **GALN-SB2C-850-U-T4FT-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:	P939848
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB2C-850-U-T4FT-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(2) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

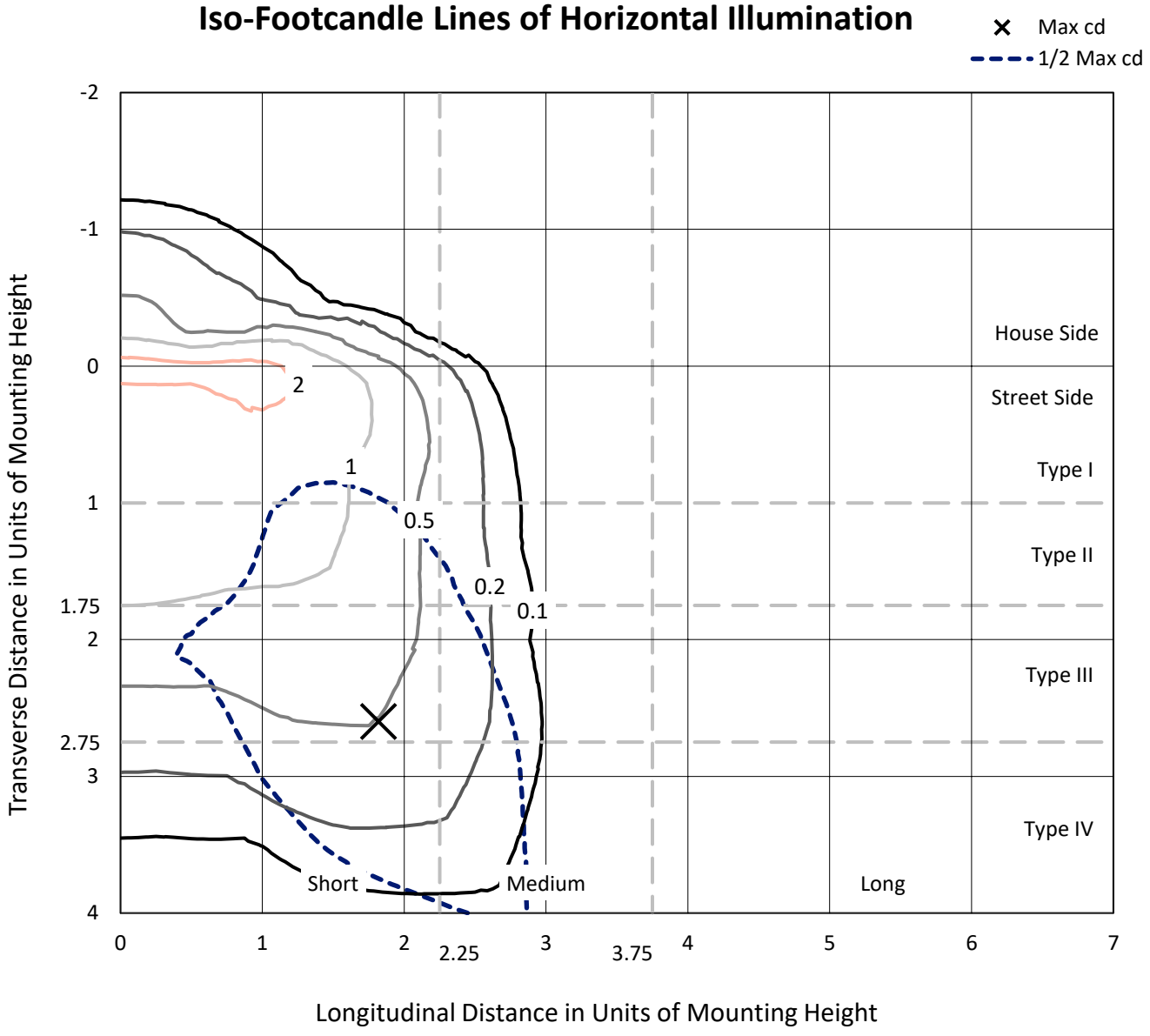
Lumens per Lamp:	N/A
Luminaire Lumens:	10847 lumens
Efficiency:	N/A
Efficacy:	107.5 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	100.9
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: P939848
CATALOG NUMBER: GALN-SB2C-850-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

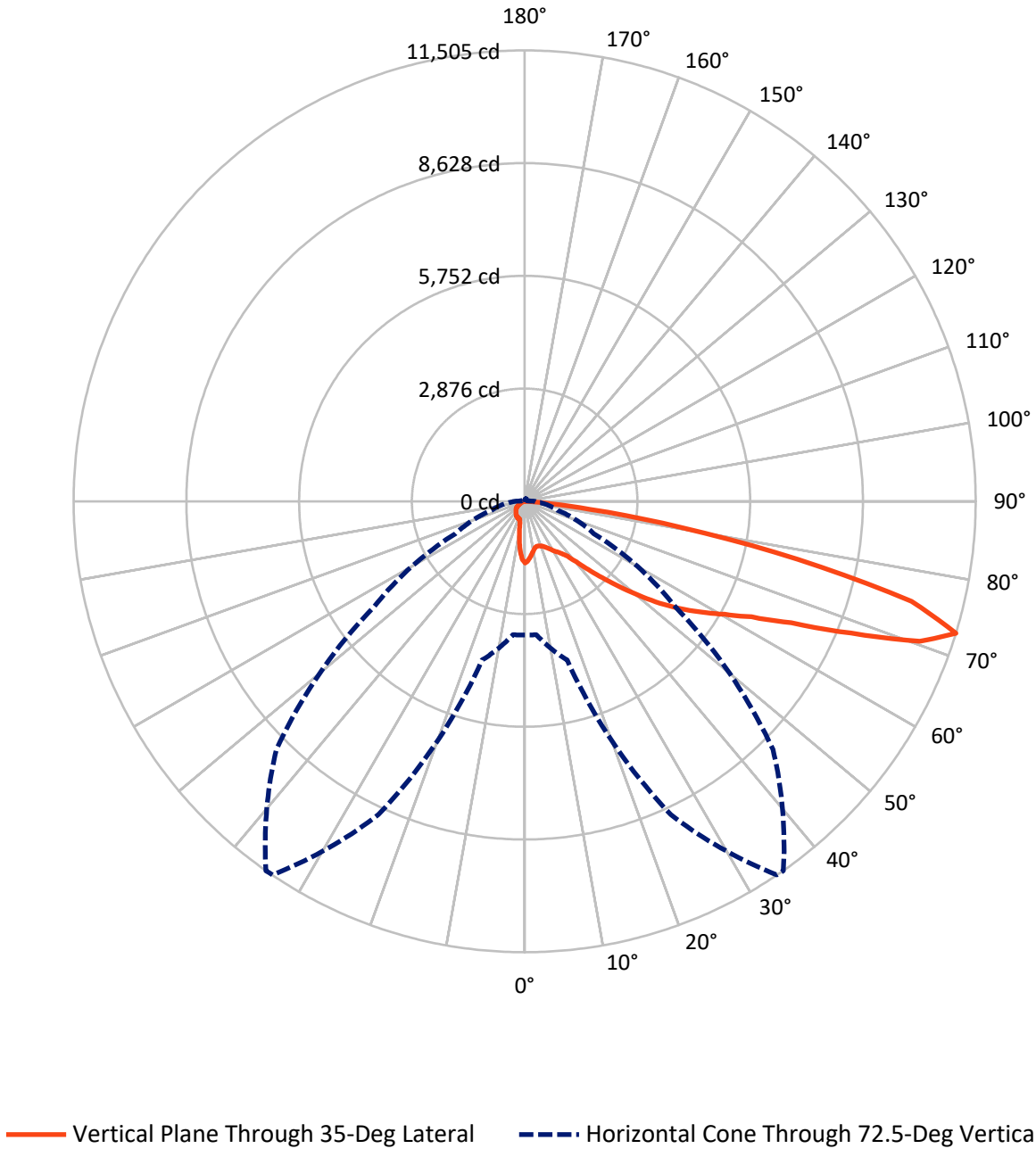


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type IV - Short - N/A

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

REPORT NUMBER: P939848
CATALOG NUMBER: GALN-SB2C-850-U-T4FT-HSS

Luminous Intensity Polar Plot



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

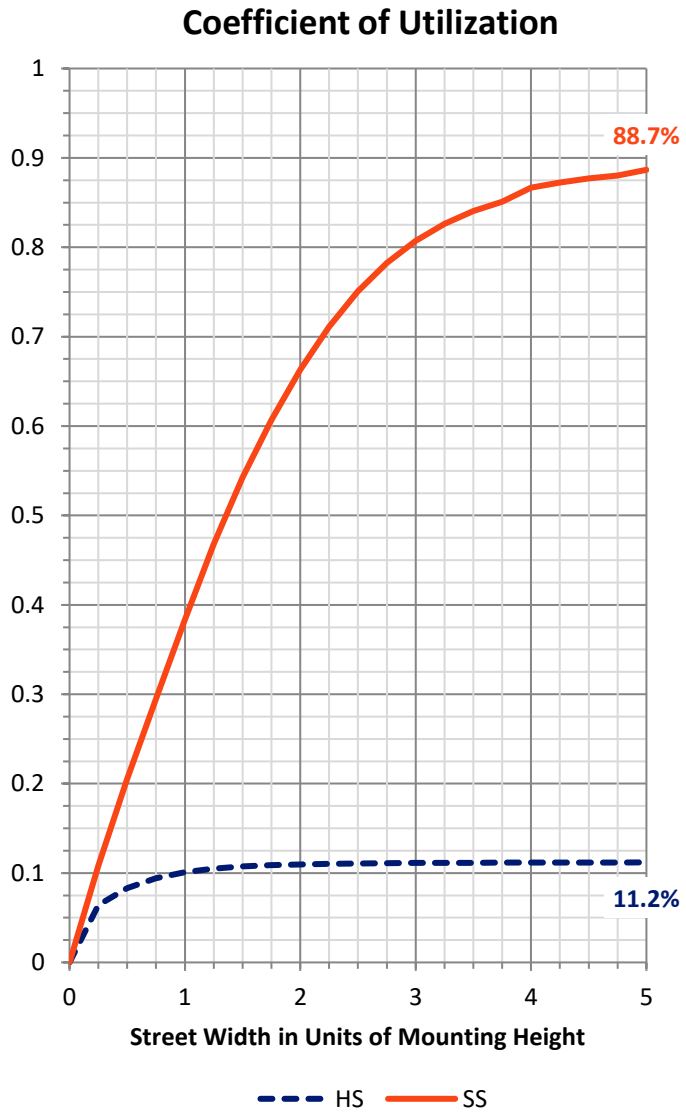
REPORT NUMBER: P939848
CATALOG NUMBER: GALN-SB2C-850-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1220.8	0.0	1220.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	9626.2	0.0	9626.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	10847.0	0.0	10847.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	1.2
10°-20°	302.2	2.8
20°-30°	490.9	4.5
30°-40°	819.1	7.6
40°-50°	1549.8	14.3
50°-60°	2462.6	22.7
60°-70°	3046.4	28.1
70°-80°	1893.7	17.5
80°-90°	153.0	1.4
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°	10847.0	100.0
0°-180°	10847.0	100.0



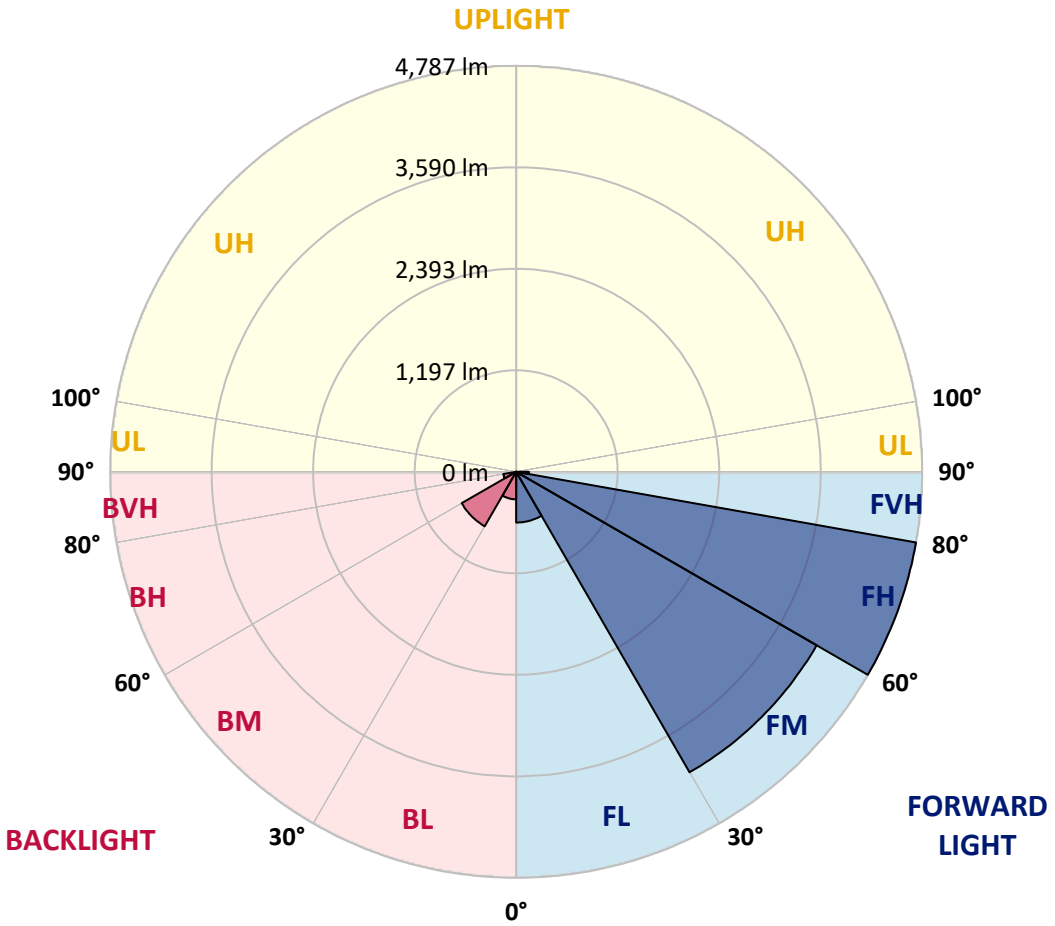
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: P939848
CATALOG NUMBER: GALN-SB2C-850-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	597.9	5.5			
FM	(30°-60°)	4090.4	37.7			
FH	(60°-80°)	4786.9	44.1			G2/5000
FVH	(80°-90°)	151.0	1.4			G2/225
BL	(0°-30°)	324.4	3.0	B1/500		
BM	(30°-60°)	741.1	6.8	B1/1000		
BH	(60°-80°)	153.2	1.4	B1/500		G1/500
BVH	(80°-90°)	2.1	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 IV Short



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

REPORT NUMBER: P939848
CATALOG NUMBER: GALN-SB2C-850-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1
2.5°	1502.2	1514.9	1517.3	1521.2	1521.2	1526.0	1533.9	1545.1	1563.4	1572.9
5°	1384.5	1394.1	1406.0	1415.5	1433.8	1436.2	1467.2	1497.4	1539.5	1571.3
7.5°	1266.1	1277.2	1293.1	1316.2	1340.0	1347.2	1394.1	1444.9	1511.7	1571.3
10°	1182.6	1183.4	1197.7	1220.8	1258.9	1267.7	1324.9	1397.2	1480.7	1561.8
12.5°	1135.8	1141.3	1147.7	1165.2	1201.7	1207.3	1268.5	1353.5	1449.7	1556.2
15°	1135.8	1139.7	1143.7	1152.4	1181.9	1186.6	1240.7	1325.7	1433.8	1558.6
17.5°	1147.7	1154.0	1150.9	1161.2	1192.2	1195.4	1243.1	1317.8	1433.0	1573.7
20°	1176.3	1181.1	1174.7	1181.1	1212.1	1218.4	1267.7	1332.9	1446.5	1599.9
22.5°	1221.6	1224.0	1208.9	1213.6	1245.4	1253.4	1310.6	1375.8	1479.1	1642.0
25°	1278.8	1283.6	1260.5	1266.1	1296.3	1305.8	1371.8	1440.2	1530.8	1700.1
27.5°	1344.8	1347.2	1327.3	1326.5	1365.4	1379.0	1445.7	1519.6	1599.9	1773.2
30°	1420.3	1427.4	1408.4	1405.2	1454.5	1465.6	1531.6	1617.4	1701.6	1882.9
32.5°	1479.9	1485.5	1474.3	1482.3	1532.4	1541.1	1635.7	1755.7	1861.4	2038.6
35°	1565.7	1568.9	1543.5	1557.8	1615.0	1637.3	1777.9	1949.6	2062.5	2234.2
37.5°	1876.5	1876.5	1768.4	1697.7	1752.5	1772.4	1972.7	2193.6	2310.5	2496.4
40°	2306.5	2299.3	2141.2	1996.5	1989.4	2028.3	2250.0	2501.2	2630.8	2811.2
42.5°	2765.1	2753.9	2538.6	2395.5	2371.7	2385.2	2570.3	2880.3	3012.3	3195.1
45°	3172.0	3168.8	2971.7	2779.4	2736.5	2779.4	2970.1	3323.8	3418.4	3610.7
47.5°	3513.0	3513.0	3369.1	3243.5	3221.3	3246.7	3511.4	3815.8	3807.0	4053.4
50°	3905.6	3902.4	3765.7	3711.7	3734.7	3770.5	4134.5	4334.0	4209.2	4488.2
52.5°	4180.6	4199.7	4152.8	4144.0	4261.7	4323.7	4767.1	4841.1	4569.2	4900.7
55°	4398.4	4420.6	4474.7	4535.9	4762.4	4843.4	5379.9	5321.9	4870.5	5258.3
57.5°	4706.7	4675.0	4758.4	4879.2	5245.6	5343.4	5973.6	5775.7	5112.9	5548.4
60°	5081.1	5085.9	5100.2	5252.8	5728.0	5853.6	6558.6	6204.9	5268.7	5726.5
62.5°	5530.9	5538.1	5567.5	5802.0	6375.8	6494.2	7181.7	6556.2	5340.2	5676.4
65°	5499.9	5530.1	5858.4	6660.3	7360.5	7477.4	7909.0	6802.6	5232.1	5218.6
67.5°	5010.4	5059.6	5608.8	7685.6	8845.2	8975.6	8788.0	6851.1	4765.6	4058.2
70°	4368.2	4385.6	5046.1	8607.6	10564.3	10696.3	9574.8	6317.8	3616.3	2263.6
72.5°	3411.2	3415.2	4190.1	8821.4	11497.4	11504.6	8957.3	4690.1	1944.9	869.5
75°	2436.8	2413.0	2806.4	7153.9	10115.3	10196.4	6715.2	2200.0	743.1	410.9
77.5°	1306.6	1332.9	1588.0	4242.6	6987.8	7126.1	3664.0	634.2	378.3	279.8
80°	403.8	426.0	650.9	1942.5	3958.1	4041.5	1358.3	282.2	263.9	199.5
82.5°	127.2	131.9	303.6	816.2	1642.8	1681.0	393.4	159.8	180.4	131.9
85°	36.6	37.4	135.1	304.4	406.1	414.1	110.5	62.0	103.3	81.9
87.5°	4.0	12.7	50.9	50.9	35.8	35.0	11.9	13.5	29.4	10.3
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: P939848
CATALOG NUMBER: GALN-SB2C-850-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1572.1	0°	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1
1579.2	2.5°	1575.3	1576.1	1565.7	1548.3	1529.2	1513.3	1493.4	1477.5	1466.4	1463.2
1593.6	5°	1586.4	1580.8	1551.4	1498.2	1434.6	1379.8	1318.6	1270.1	1238.3	1224.8
1608.7	7.5°	1603.1	1587.2	1522.8	1417.9	1296.3	1188.2	1078.5	993.5	939.4	912.4
1623.0	10°	1617.4	1585.6	1475.1	1301.9	1115.9	952.2	804.3	701.8	644.6	617.6
1639.7	12.5°	1630.9	1584.8	1413.1	1164.4	912.4	712.1	574.6	523.8	507.9	502.3
1666.7	15°	1656.3	1587.2	1335.2	1007.0	709.7	538.1	488.0	487.2	490.4	488.8
1708.0	17.5°	1691.3	1589.6	1247.0	840.1	547.6	474.5	472.1	479.3	484.0	481.6
1759.7	20°	1736.6	1599.1	1153.2	674.8	470.5	458.6	464.2	470.5	474.5	470.5
1828.8	22.5°	1800.2	1615.8	1050.7	542.0	445.9	449.1	453.8	461.0	465.0	459.4
1917.0	25°	1878.1	1642.0	949.8	471.3	434.0	437.9	445.1	453.0	457.8	452.2
2028.3	27.5°	1979.0	1684.2	856.8	455.4	422.0	424.4	434.7	446.7	453.0	445.9
2186.5	30°	2125.3	1753.3	776.5	462.6	414.9	409.3	423.6	440.3	447.5	441.1
2401.9	32.5°	2319.2	1851.1	727.2	473.7	411.7	391.8	405.3	426.8	438.7	434.7
2683.2	35°	2573.5	1999.7	708.2	486.4	409.3	373.6	383.1	406.1	426.8	430.8
3037.7	37.5°	2881.9	2206.3	713.7	492.0	402.2	358.5	363.2	383.1	410.1	422.8
3436.7	40°	3232.4	2447.2	745.5	486.4	394.2	345.7	346.5	361.6	385.5	404.5
3865.9	42.5°	3594.0	2728.5	804.3	465.7	387.1	334.6	332.2	342.6	358.5	372.0
4294.2	45°	3938.2	3017.8	862.3	437.1	378.3	323.5	317.9	321.9	325.1	330.6
4711.5	47.5°	4238.6	3221.3	845.7	410.9	366.4	310.8	301.2	299.6	290.1	289.3
5084.3	50°	4446.1	3265.8	751.1	384.7	348.9	296.5	281.4	271.8	255.1	247.2
5363.2	52.5°	4512.0	3090.1	613.6	358.5	320.3	277.4	255.9	240.8	220.2	213.0
5523.8	55°	4424.6	2746.0	490.4	326.7	280.6	251.9	228.1	208.2	191.5	182.8
5541.3	57.5°	4210.8	2308.1	387.9	289.3	238.4	223.3	199.5	179.6	165.3	156.6
5347.3	60°	3856.3	1832.8	306.8	244.8	203.5	192.3	167.7	155.0	142.3	131.9
4846.6	62.5°	3318.2	1308.2	240.8	193.9	170.1	157.4	143.1	133.5	118.4	104.1
3946.1	65°	2589.4	800.4	186.0	142.3	136.7	130.3	121.6	112.9	94.6	80.3
2574.3	67.5°	1633.3	379.1	132.7	107.3	108.1	104.9	100.9	93.8	80.3	67.6
1153.2	70°	719.3	183.6	87.4	81.9	80.3	80.3	83.5	81.1	68.4	56.4
400.6	72.5°	*244.8*	*98.6*	*65.2*	*62.0*	*58.0*	*57.2*	*69.9*	*67.6*	*54.8*	*43.7*
199.5	75°	128.0	66.0	47.7	44.5	35.0	42.1	55.6	52.5	38.9	28.6
131.9	77.5°	83.5	46.9	32.6	28.6	19.9	27.8	41.3	36.6	23.0	14.3
86.6	80°	52.5	31.0	19.1	13.5	9.5	15.1	22.3	15.9	8.7	3.2
50.9	82.5°	27.8	15.9	7.2	4.8	4.0	4.8	5.6	4.0	1.6	0.0
26.2	85°	11.1	5.6	2.4	1.6	0.8	0.0	1.6	0.8	0.0	0.0
4.8	87.5°	4.0	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 O

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

180°
1572.1
1468.8
1229.5
916.4
618.3
500.7
488.0
480.8
469.7
458.6
451.4
445.9
440.3
434.7
430.8
426.0
410.9
377.5
333.8
288.5
248.0
212.2
182.8
155.0
129.6
101.7
77.9
66.0
54.0
41.3
26.2
12.7
2.4
0.0
0.0
0.0
0.0

F REPORT)