

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: P386488

Luminaire Tested: **GWC-SA2A-827-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386488  
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: MCGRAW-EDISON  
Catalog Number: GWC-SA2A-827-U-T4W-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 2700K, 615mA 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: 5182 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

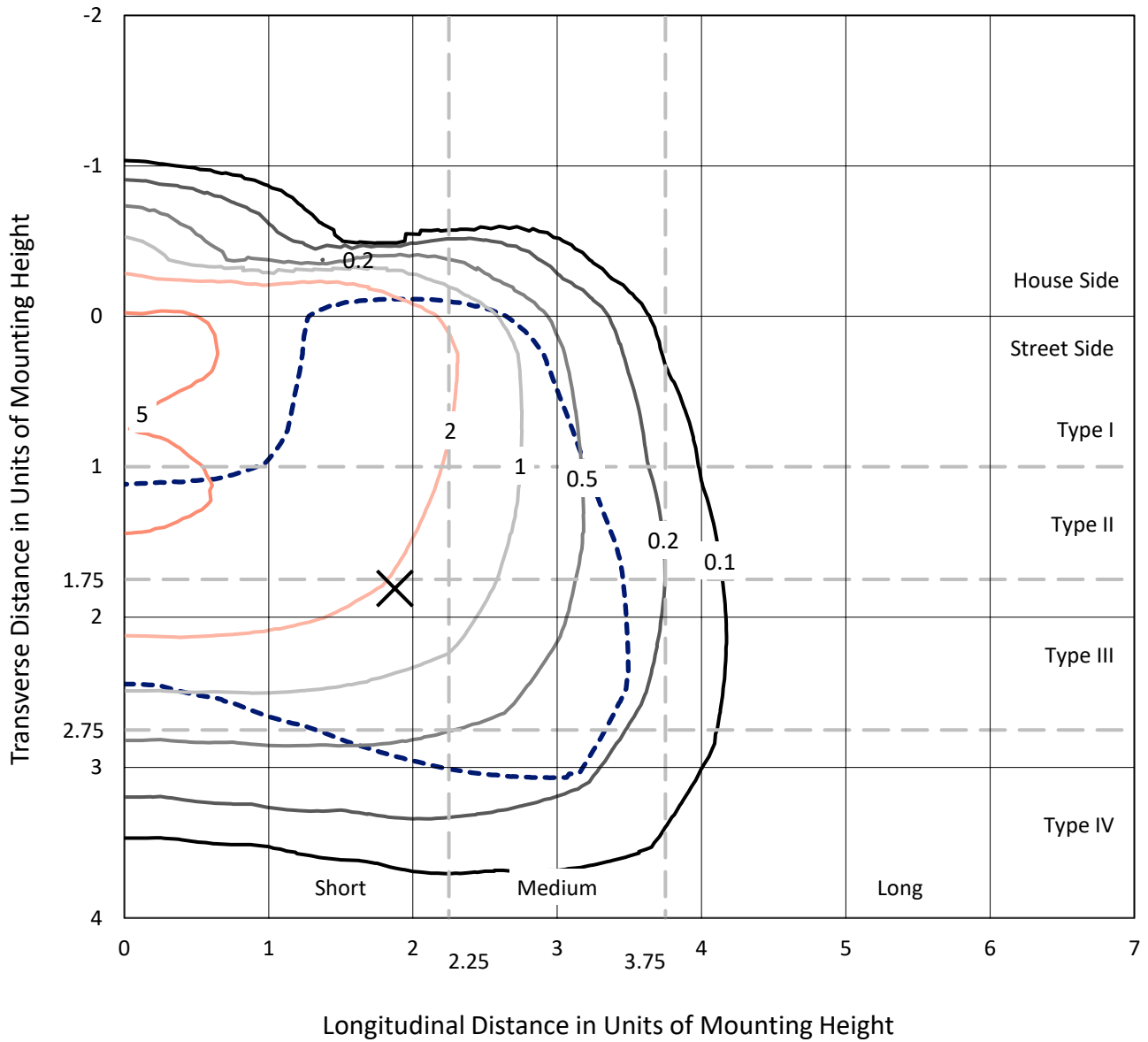
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P386488  
 CATALOG NUMBER: GWC-SA2A-827-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

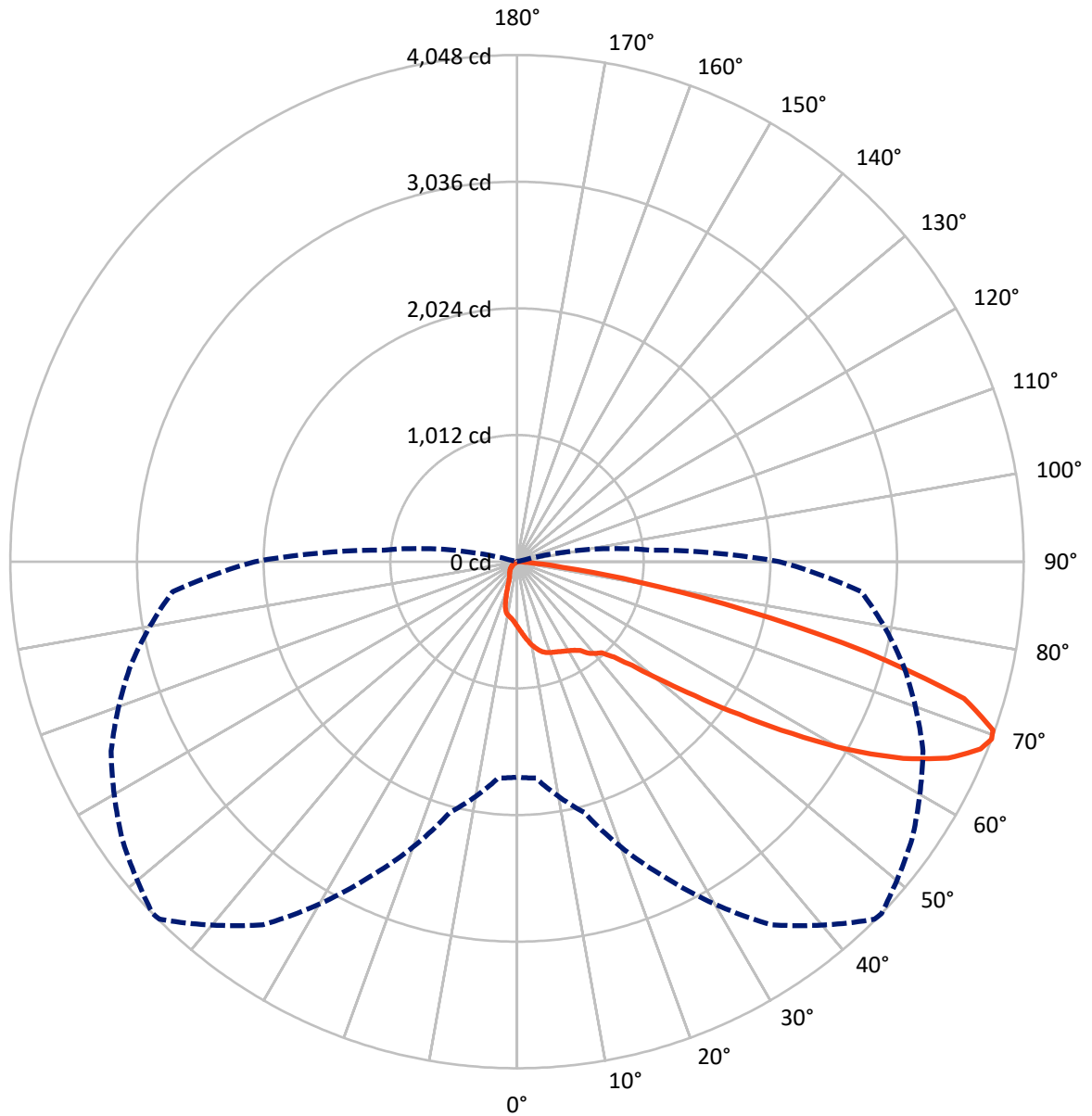
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P386488  
CATALOG NUMBER: GWC-SA2A-827-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



REPORT NUMBER: P386488  
 CATALOG NUMBER: GWC-SA2A-827-U-T4W-HSS

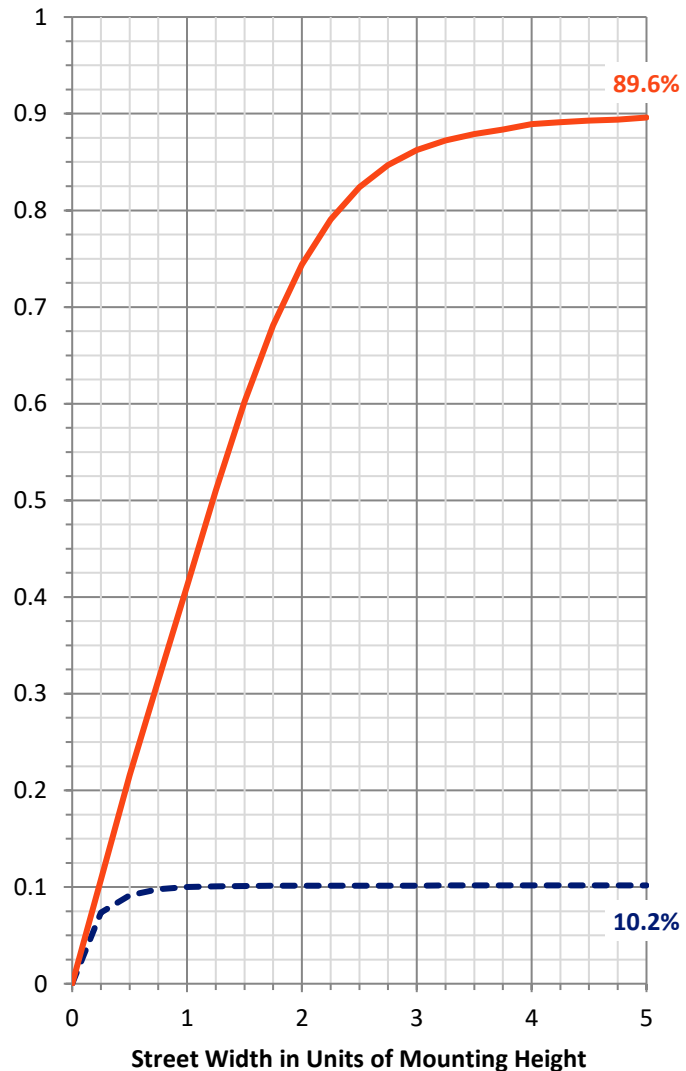
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	531.8	0.0	531.8
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	4650.2	0.0	4650.2
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	5182.0	0.0	5182.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.7	1.0
10°-20°	156.8	3.0
20°-30°	246.6	4.8
30°-40°	353.6	6.8
40°-50°	611.1	11.8
50°-60°	1207.3	23.3
60°-70°	1687.4	32.6
70°-80°	815.2	15.7
80°-90°	52.4	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°	5182.0	100.0
0°-180°	5182.0	100.0



REPORT NUMBER: P386488

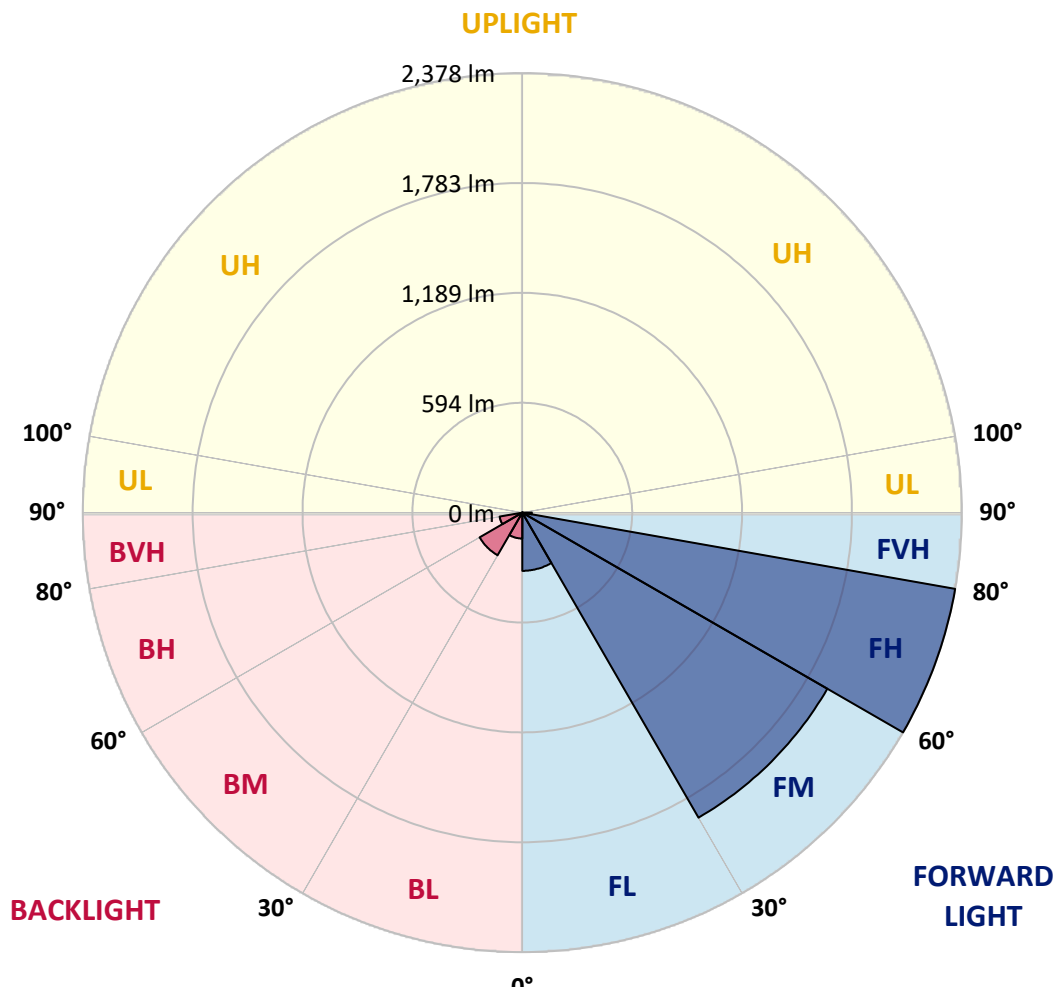
CATALOG NUMBER: GWC-SA2A-827-U-T4W-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	314.9	6.1			
FM (30°-60°)	1905.5	36.8			
FH (60°-80°)	2377.8	45.9			G2/5000
FVH (80°-90°)	52.0	1.0			G1/100
BL (0°-30°)	140.2	2.7	B1/500		
BM (30°-60°)	266.5	5.1	B1/1000		
BH (60°-80°)	124.7	2.4	B1/500		G1/500
BVH (80°-90°)	0.4	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





REPORT NUMBER: P386488

CATALOG NUMBER: GWC-SA2A-827-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2
2.5°	576.8	576.1	572.7	571.2	563.0	558.1	556.1	550.1	541.3	532.6	522.9
5°	642.4	642.2	635.8	629.8	614.2	599.6	597.0	582.9	563.2	544.7	526.3
7.5°	709.5	706.3	700.0	688.3	665.7	642.4	640.2	620.3	592.3	565.6	539.1
10°	766.3	764.4	756.1	738.4	711.9	685.4	682.7	658.2	626.6	593.8	560.0
12.5°	810.5	809.1	798.1	776.0	747.8	720.4	716.7	694.9	661.1	624.4	584.6
15°	837.5	836.8	823.4	799.8	772.1	748.3	745.2	726.0	694.6	656.2	611.3
17.5°	843.8	844.1	830.2	806.4	783.6	766.6	764.1	749.5	723.3	685.2	638.0
20°	829.7	832.6	820.3	799.6	785.5	776.5	774.6	765.8	743.7	707.8	659.4
22.5°	809.8	811.3	802.8	788.9	783.1	784.8	783.8	778.9	760.2	727.2	680.5
25°	797.7	797.7	792.6	780.9	784.8	795.2	795.5	794.5	779.7	751.0	706.3
27.5°	797.2	795.7	789.9	781.1	791.8	807.9	808.8	815.4	806.2	779.9	738.4
30°	816.6	814.9	802.5	791.1	804.7	822.0	824.4	838.7	834.1	811.3	774.1
32.5°	862.0	856.0	828.5	809.8	820.0	840.7	843.8	866.7	873.9	849.9	808.6
35°	924.2	905.0	865.4	845.3	846.2	867.9	870.8	904.3	925.9	885.4	835.3
37.5°	1010.0	1000.5	936.1	882.2	886.6	919.4	927.9	964.3	958.3	904.8	865.7
40°	1198.1	1183.2	1114.7	985.7	925.2	961.2	963.8	983.3	983.8	948.8	928.9
42.5°	1454.1	1448.1	1375.9	1173.5	1001.3	989.1	994.0	1026.8	1063.5	1041.6	1040.6
45°	1737.7	1734.5	1658.0	1422.8	1155.1	1080.7	1086.8	1130.8	1201.0	1205.8	1236.7
47.5°	1965.8	1964.4	1920.4	1701.0	1390.5	1236.0	1237.9	1284.6	1408.0	1469.0	1518.3
50°	2173.8	2180.9	2146.1	2002.0	1711.2	1479.2	1474.6	1505.7	1703.9	1803.8	1865.0
52.5°	2462.9	2472.9	2375.5	2282.9	2047.7	1780.9	1777.3	1809.8	2059.6	2134.5	2145.4
55°	2718.3	2701.3	2624.3	2597.5	2458.1	2153.6	2152.7	2181.3	2403.7	2435.5	2455.7
57.5°	2831.0	2824.5	2861.6	2922.9	2887.9	2594.1	2592.0	2570.1	2711.5	2714.9	2776.9
60°	2902.2	2910.2	3024.2	3213.0	3300.2	3068.2	3054.1	2920.7	3005.5	2997.9	3064.3
62.5°	2848.8	2864.6	3069.6	3384.3	3608.8	3481.9	3462.0	3241.9	3256.7	3230.7	3292.4
65°	2565.0	2589.5	2925.5	3352.0	3761.8	3805.3	3785.2	3525.4	3456.2	3413.4	3379.2
67.5°	2082.7	2097.3	2448.1	3070.8	3692.8	3998.2	3994.1	3774.0	3606.8	3382.6	3116.8
69°	1721.2	1735.5	2073.2	2774.9	3541.0	4039.5	4047.6	3853.7	3578.2	3195.0	2761.5
70°	1457.8	1473.1	1787.7	2521.3	3364.8	4020.3	4034.7	3846.1	3496.0	2977.8	2449.8
72.5°	764.6	777.7	1100.6	1737.0	2743.1	3691.6	3735.1	3521.1	2963.4	2162.6	1448.6
75°	240.3	247.8	429.8	908.0	1878.1	2870.4	2880.4	2762.0	2104.3	1189.6	603.3
77.5°	91.6	89.4	143.1	334.6	949.5	1807.4	1868.4	1726.0	1104.3	420.6	139.2
80°	49.3	49.6	74.3	138.5	406.2	928.9	980.4	836.5	392.4	131.2	32.1
82.5°	21.4	22.4	41.8	73.4	186.6	342.6	368.3	306.6	149.9	88.2	11.9
85°	4.6	5.1	20.2	39.8	76.0	96.2	100.8	99.4	95.5	68.5	4.6
87.5°	0.0	0.0	9.0	14.3	19.2	21.9	19.2	25.0	52.7	46.2	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P386488

CATALOG NUMBER: GWC-SA2A-827-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2
2.5°	519.7	515.3	507.8	499.5	493.7	487.6	482.8	480.6	478.2	476.5	478.6
5°	518.7	510.2	495.6	481.6	471.4	463.1	456.3	453.6	450.9	449.0	448.8
7.5°	527.2	515.3	493.0	472.3	456.5	445.4	436.1	432.2	429.1	427.6	426.4
10°	543.5	528.2	498.3	471.4	450.9	432.0	412.1	396.8	386.8	382.2	380.5
12.5°	564.7	545.5	508.5	476.5	446.8	410.4	368.1	331.6	308.1	300.3	295.7
15°	589.4	565.6	521.9	483.0	431.7	365.2	293.5	245.9	224.0	219.6	214.8
17.5°	613.2	587.0	537.9	484.2	398.7	291.8	215.0	182.7	174.2	177.1	177.9
20°	634.1	608.1	553.7	473.5	338.7	218.9	166.4	158.4	161.6	167.2	168.1
22.5°	655.3	628.6	568.3	445.4	261.9	166.2	149.9	151.9	155.0	160.6	161.6
25°	681.0	653.3	581.9	393.6	196.6	141.4	142.4	145.3	148.5	153.6	154.0
27.5°	710.7	684.7	590.9	326.3	145.8	130.0	133.1	137.5	140.7	145.5	146.5
30°	750.0	726.0	593.8	256.6	122.2	119.8	121.2	126.6	131.2	135.6	136.3
32.5°	787.0	766.8	584.1	193.6	113.2	110.3	110.3	113.5	118.8	122.9	123.9
35°	821.0	807.9	553.0	141.6	106.4	101.6	99.1	99.1	102.5	105.9	106.9
37.5°	865.9	865.4	502.7	113.0	99.9	94.3	89.2	85.3	84.1	84.8	85.3
40°	942.9	943.7	437.1	101.3	94.3	86.7	79.0	71.9	65.4	63.2	62.9
42.5°	1063.2	1052.3	368.3	95.7	89.4	79.0	67.3	57.8	47.6	44.5	44.2
45°	1254.2	1189.3	295.4	90.6	84.3	70.2	55.6	42.8	34.5	32.1	32.1
47.5°	1532.4	1369.4	228.9	85.0	77.5	60.3	42.0	30.9	25.3	24.1	24.3
50°	1820.1	1545.7	175.4	78.0	69.2	49.8	31.1	22.4	19.2	19.2	19.4
52.5°	2075.2	1675.0	136.8	70.5	59.0	39.1	23.6	17.5	16.0	15.8	16.0
55°	2314.0	1758.3	104.7	61.7	46.9	29.2	18.0	14.3	13.4	12.9	12.6
57.5°	2544.3	1799.6	78.5	49.8	34.0	21.1	14.3	12.1	11.2	10.4	10.2
60°	2697.6	1766.1	53.9	36.7	23.6	15.3	11.9	10.4	9.2	8.5	8.3
62.5°	2784.1	1674.5	34.7	26.5	16.8	11.4	9.5	8.7	7.0	6.3	6.3
65°	2749.2	1523.4	24.3	19.0	12.1	8.5	7.0	7.0	5.1	4.1	3.9
67.5°	2436.2	1287.0	18.5	14.1	8.7	6.3	5.3	6.1	3.2	1.9	1.9
69°	2096.1	1066.6	15.8	11.7	7.3	5.1	4.6	5.6	2.2	1.5	1.2
70°	1821.8	920.1	14.3	10.2	6.1	4.4	4.1	5.3	2.2	1.2	1.0
72.5°	1089.9	513.1	10.9	7.3	3.9	3.4	3.4	6.1	2.2	1.2	1.0
75°	440.5	180.8	8.0	5.1	2.9	2.9	4.1	7.8	1.9	1.0	0.7
77.5°	99.9	39.6	4.6	3.2	1.9	2.9	4.9	6.1	1.2	0.5	0.0
80°	24.3	9.7	2.9	1.9	1.2	2.2	3.6	3.4	0.2	0.0	0.0
82.5°	8.0	3.4	1.2	1.0	0.2	0.7	1.7	1.0	0.0	0.0	0.0
85°	3.4	1.9	0.5	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	2.2	0.7	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



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245982

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



--- HS    — SS

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



u

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)