

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: P386842

Luminaire Tested: **GWC-SA2C-735-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386842  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2C-735-U-T2-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9864.6 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

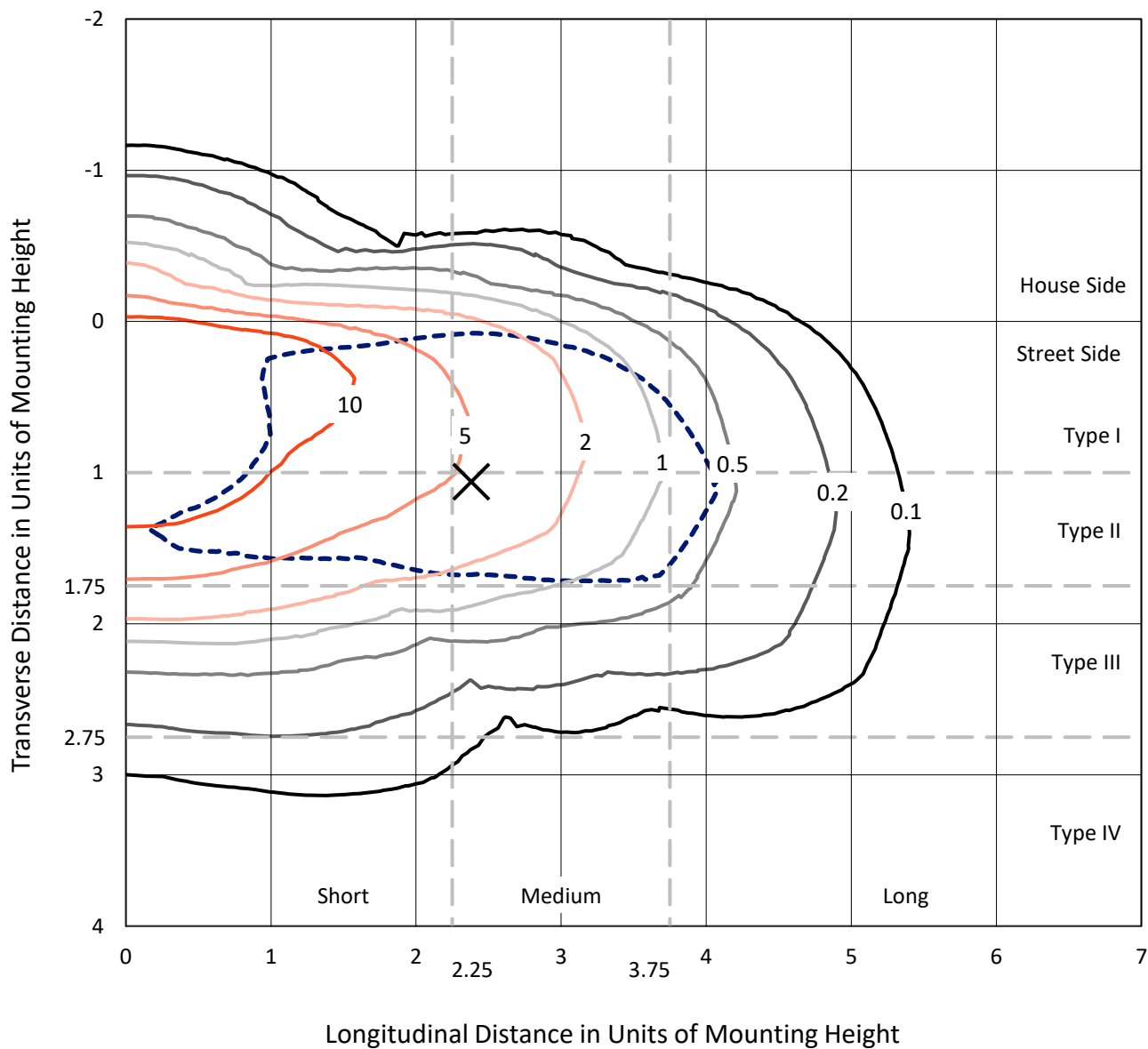


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### Iso-Footcandle Lines of Horizontal Illumination

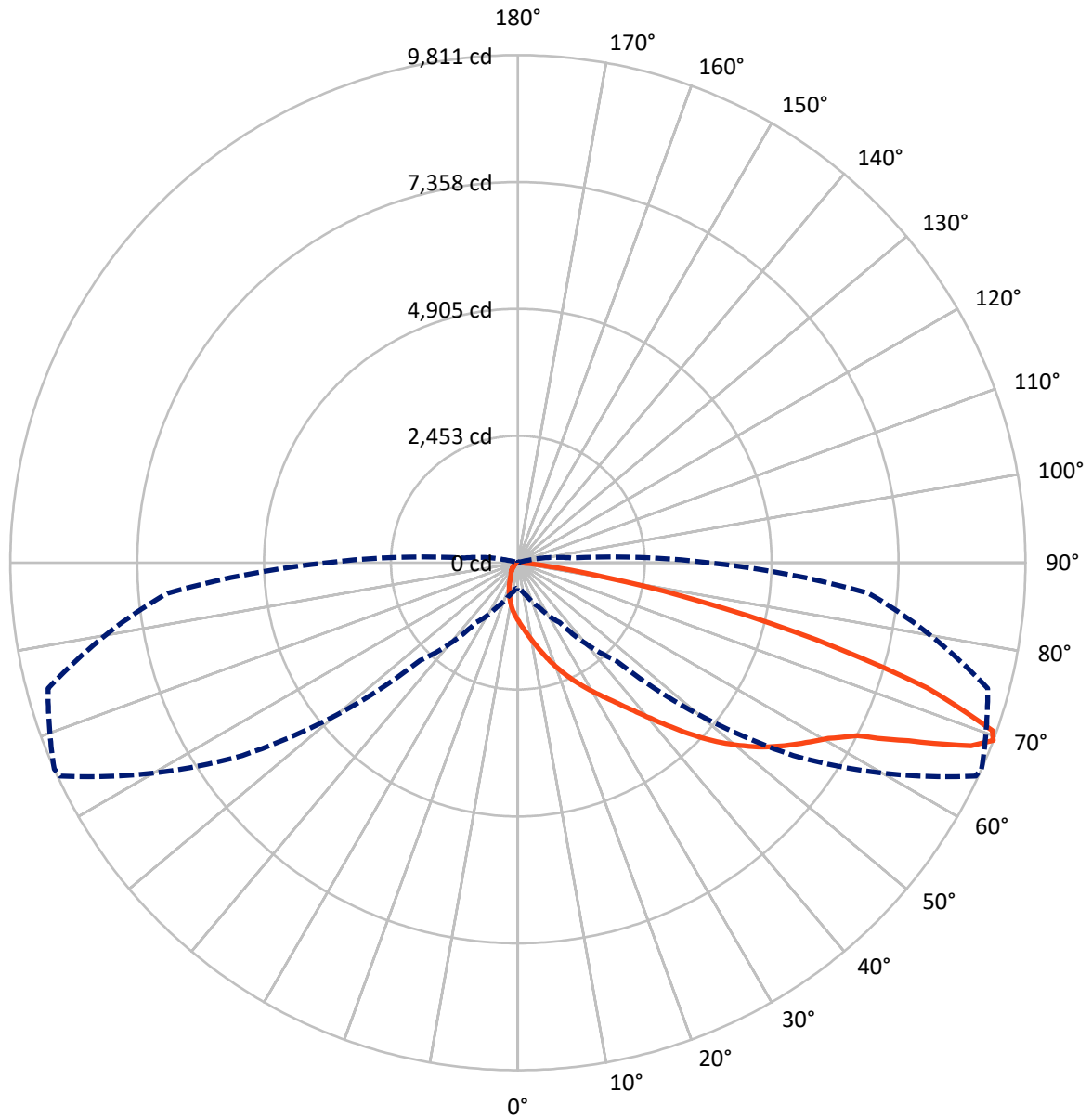
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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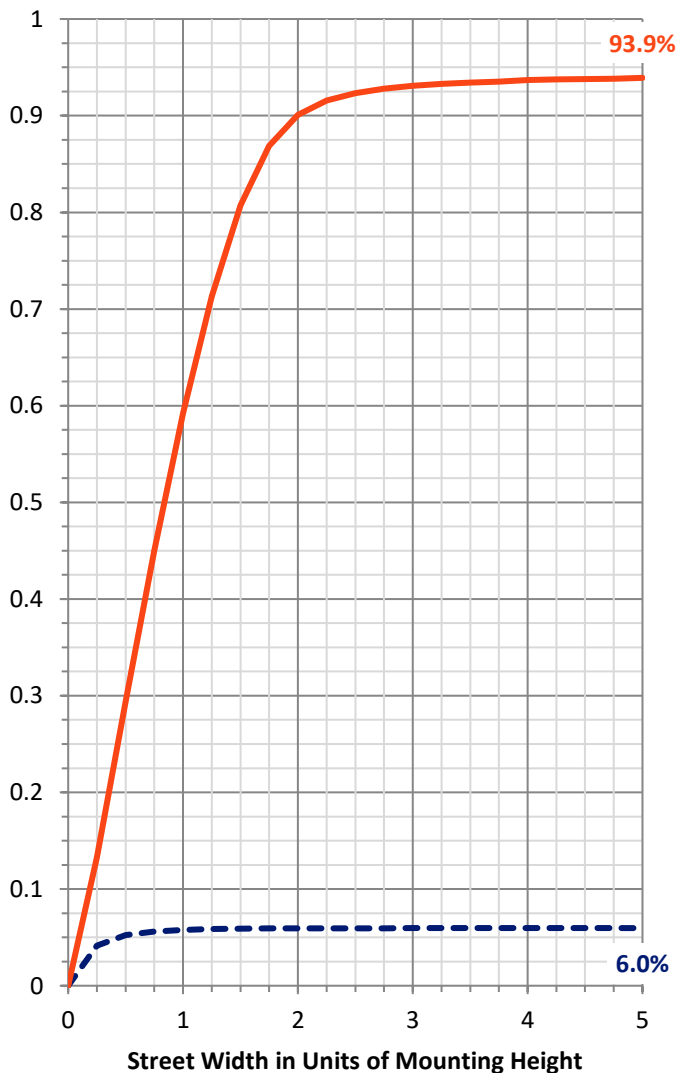
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	591.7	0.0	591.7
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	9272.8	0.0	9272.8
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	9864.6	0.0	9864.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.5	1.1
10°-20°	323.0	3.3
20°-30°	562.4	5.7
30°-40°	986.7	10.0
40°-50°	1651.6	16.7
50°-60°	2427.7	24.6
60°-70°	2492.7	25.3
70°-80°	1230.6	12.5
80°-90°	81.4	0.8
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°	9864.6	100.0
0°-180°	9864.6	100.0

**Coefficient of Utilization**



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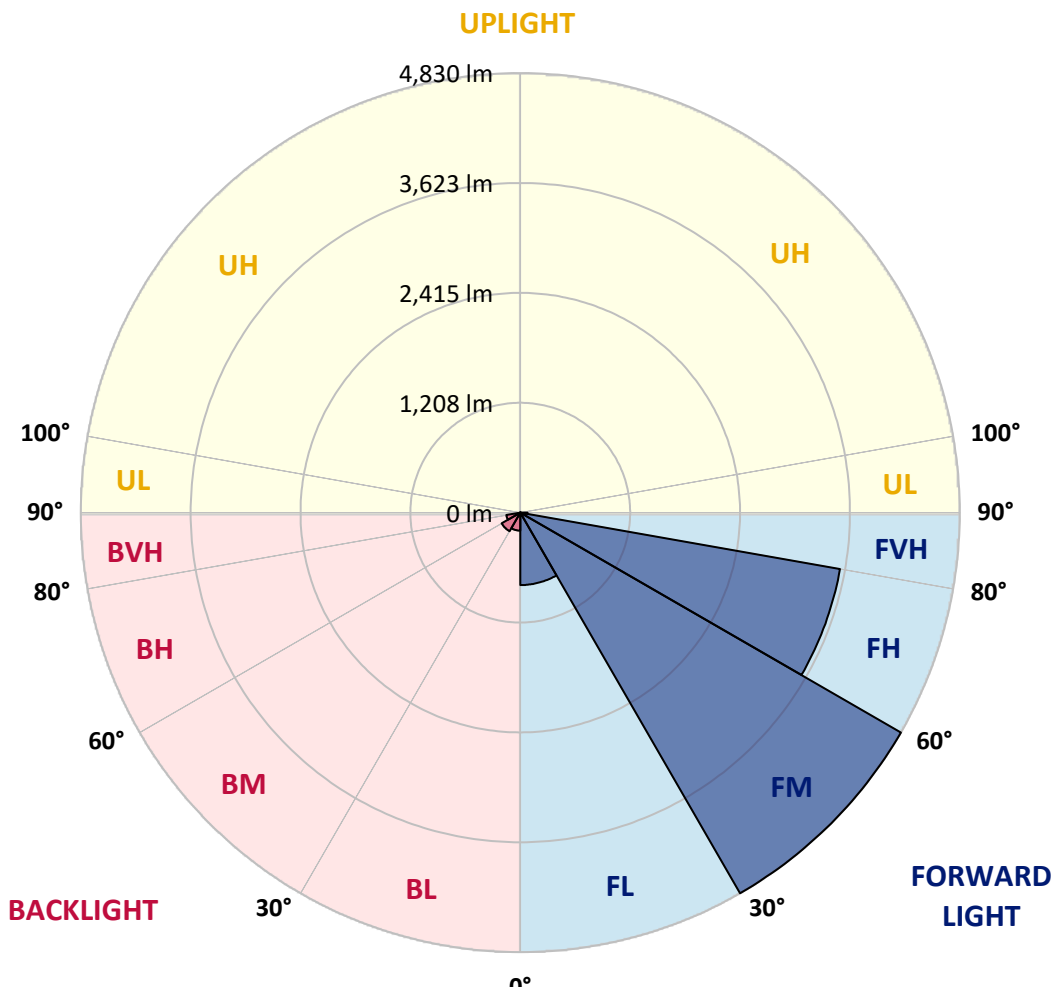
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	796.0	8.1			
FM (30°-60°)	4830.2	49.0			
FH (60°-80°)	3567.3	36.2			G2/5000
FVH (80°-90°)	79.4	0.8			G1/100
BL (0°-30°)	197.9	2.0	B1/500		
BM (30°-60°)	235.9	2.4	B1/1000		
BH (60°-80°)	155.9	1.6	B1/500		G1/500
BVH (80°-90°)	2.0	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1122.6	1122.6	1122.6	1122.6	1122.6	1122.6	1122.6	1122.6	1122.6	1122.6	1122.6
2.5°	1321.3	1315.6	1313.3	1303.0	1285.2	1271.7	1245.4	1214.9	1209.3	1179.8	1143.7
5°	1492.8	1488.1	1484.8	1470.2	1452.0	1417.8	1370.0	1313.3	1302.6	1246.3	1174.1
7.5°	1612.3	1620.6	1620.6	1611.3	1588.3	1562.6	1504.0	1426.7	1413.1	1326.9	1214.9
10°	1682.1	1692.3	1700.3	1708.3	1705.0	1694.7	1639.4	1552.3	1535.9	1421.6	1262.3
12.5°	1688.7	1698.9	1721.4	1754.7	1787.0	1810.4	1775.7	1691.5	1672.7	1531.2	1318.4
15°	1652.1	1662.8	1697.5	1762.2	1840.5	1908.8	1920.1	1845.5	1826.4	1661.9	1388.7
17.5°	1588.3	1595.4	1645.1	1734.5	1857.3	1982.9	2050.8	2011.0	1993.2	1811.3	1467.0
20°	1541.0	1546.1	1589.7	1685.8	1846.9	2029.3	2174.5	2186.6	2167.9	1971.6	1551.8
22.5°	1622.1	1631.4	1632.9	1678.3	1818.9	2052.2	2283.2	2359.6	2345.5	2141.7	1635.2
25°	1843.7	1854.5	1818.9	1790.8	1842.8	2062.5	2376.4	2536.6	2525.5	2324.9	1719.1
27.5°	2136.6	2147.8	2101.9	2018.0	1967.8	2101.4	2459.3	2716.6	2716.2	2518.9	1809.5
30°	2424.2	2435.5	2388.6	2304.7	2189.4	2211.5	2531.0	2905.0	2907.8	2718.9	1905.6
32.5°	2725.9	2740.0	2691.7	2584.0	2463.6	2401.7	2631.8	3094.3	3110.1	2950.8	2013.8
35°	3068.9	3070.8	3002.9	2890.0	2751.3	2656.1	2793.5	3306.5	3344.4	3238.1	2151.0
37.5°	3405.3	3418.9	3363.2	3185.1	3057.7	2949.9	3033.8	3571.7	3625.6	3589.0	2330.5
40°	3654.6	3683.2	3675.2	3483.1	3362.3	3285.4	3332.2	3887.0	3955.4	3997.6	2556.8
42.5°	3811.1	3832.6	3869.2	3753.4	3643.8	3656.5	3684.6	4254.3	4338.7	4463.3	2816.9
45°	3990.5	4000.9	4031.3	3980.2	3906.2	4033.7	4058.5	4668.0	4756.6	4964.1	3105.4
47.5°	4209.8	4234.2	4242.6	4195.8	4162.1	4367.2	4418.8	5044.3	5168.5	5500.6	3410.9
50°	4489.1	4495.7	4510.1	4479.7	4446.0	4654.0	4742.1	5439.3	5552.2	6039.0	3712.2
52.5°	4762.3	4785.6	4836.3	4817.0	4803.5	4898.1	5030.3	5795.4	5921.4	6487.8	4013.0
55°	4841.0	4861.1	5035.9	5155.3	5266.0	5198.9	5305.7	6114.4	6250.8	6889.0	4302.6
57.5°	4526.6	4567.3	4870.0	5181.1	5639.8	5666.5	5684.4	6442.0	6564.2	7196.3	4603.9
60°	3731.9	3739.9	4236.6	4770.2	5577.9	6074.6	6237.2	6793.8	6896.5	7482.6	4964.6
62.5°	2373.7	2454.6	2999.6	3753.0	4923.9	6015.6	6905.8	7326.1	7363.5	7826.0	5481.9
65°	1130.6	1183.1	1575.7	2318.8	3566.5	5259.9	7367.3	8288.9	8305.8	8506.8	6173.0
67.5°	626.0	651.3	838.2	1248.2	2085.0	3719.7	7180.8	9429.4	9445.3	9202.1	6779.3
69°	489.6	511.2	658.3	940.8	1413.6	2673.5	6498.2	9763.4	9810.7	9401.3	6800.8
70°	415.6	436.7	566.9	794.6	1136.7	2065.8	5784.1	9680.5	9730.6	9382.5	6640.1
72.5°	254.4	266.6	377.6	559.4	761.8	1039.3	3567.0	8186.8	8271.6	8606.6	5706.8
75°	171.4	178.0	236.2	386.1	544.9	535.1	1853.0	5770.5	5954.2	6695.0	4215.0
77.5°	122.8	128.9	158.4	249.7	381.9	353.3	839.2	3586.2	3625.6	4015.3	2298.7
80°	69.8	75.4	112.0	148.5	259.1	235.7	333.6	1713.0	1732.6	1721.9	767.5
82.5°	36.5	41.2	61.3	97.9	166.4	154.2	138.7	573.5	576.3	479.3	168.2
85°	7.0	8.5	30.4	67.0	85.8	67.0	56.7	134.4	137.2	121.4	41.7
87.5°	0.0	0.5	12.2	15.0	16.9	17.4	18.3	26.2	28.1	38.0	11.3
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°	1122.6	1122.6	1122.6	1122.6	1122.6	1122.6	1122.6	1122.6	1122.6	1122.6	1122.6
2.5°	1127.7	1110.9	1078.6	1041.1	1012.0	983.5	961.0	937.5	929.2	924.9	924.5
5°	1139.0	1103.4	1035.0	964.8	907.1	852.8	813.9	776.9	759.5	751.5	748.2
7.5°	1157.8	1100.6	990.5	883.2	800.3	732.4	678.4	638.1	618.0	609.6	606.3
10°	1179.8	1096.8	938.5	797.0	691.1	620.8	567.4	527.6	505.6	496.2	491.5
12.5°	1205.5	1090.3	878.5	709.8	597.8	527.6	462.9	413.7	388.4	377.6	372.5
15°	1237.4	1083.7	815.8	627.8	515.8	430.1	359.4	326.1	321.0	319.1	319.6
17.5°	1268.8	1073.4	747.3	546.8	429.7	335.9	299.9	298.0	298.9	298.9	298.9
20°	1296.9	1050.0	672.8	477.4	347.7	283.5	276.0	272.7	270.4	268.5	266.1
22.5°	1318.9	1018.6	601.1	408.5	284.0	259.6	247.8	237.6	229.1	223.5	220.7
25°	1333.9	976.9	535.5	342.5	255.3	236.2	215.0	197.7	184.6	176.6	173.3
27.5°	1345.2	931.9	476.9	286.7	235.7	209.0	181.3	160.7	147.1	140.1	137.2
30°	1353.1	880.9	425.5	252.0	213.6	180.4	150.9	130.8	120.9	117.1	115.3
32.5°	1360.6	824.1	376.7	235.7	193.0	154.2	126.5	111.0	104.9	100.2	98.8
35°	1379.4	771.7	330.3	218.3	171.9	131.7	108.7	97.4	91.4	88.6	87.6
37.5°	1423.9	732.8	285.8	200.6	150.9	113.9	95.1	87.2	81.5	78.7	77.8
40°	1495.6	713.1	248.3	181.3	130.3	100.2	86.2	78.7	72.6	68.4	67.4
42.5°	1601.0	715.9	222.1	162.1	113.9	89.5	77.8	68.9	62.3	58.5	57.6
45°	1729.0	736.6	203.8	143.4	100.2	81.1	68.4	59.0	53.0	49.7	48.8
47.5°	1867.6	769.8	188.8	126.5	89.5	73.1	59.0	49.2	44.1	41.2	40.8
50°	2013.8	802.1	173.3	110.1	80.1	65.1	49.7	40.8	36.5	34.2	33.3
52.5°	2161.8	839.6	159.3	95.1	72.1	55.8	41.2	33.3	30.0	28.1	27.1
55°	2321.1	867.7	145.7	83.4	64.2	47.3	34.2	27.6	24.8	22.5	22.0
57.5°	2508.6	911.3	131.7	72.1	54.9	39.4	28.1	22.0	19.6	17.4	16.9
60°	2761.5	962.4	116.7	63.7	45.0	32.3	22.9	17.8	15.0	13.2	12.7
62.5°	3095.2	1019.1	97.9	55.8	36.5	26.2	18.3	14.1	10.8	8.5	8.5
65°	3518.2	1111.4	80.1	46.9	30.0	21.5	14.1	10.3	6.1	3.8	3.8
67.5°	3765.2	1127.3	64.6	38.4	24.3	18.3	11.7	7.0	1.9	0.5	0.0
69°	3686.0	1035.0	54.9	32.8	21.0	17.4	10.8	5.2	0.9	0.0	0.0
70°	3537.0	946.4	48.3	29.0	19.2	16.4	10.3	3.8	0.9	0.0	0.0
72.5°	2922.7	673.7	36.5	21.5	14.1	14.6	9.4	2.3	0.9	0.0	0.0
75°	2129.0	409.5	26.2	15.0	8.9	10.8	6.6	0.9	0.5	0.0	0.0
77.5°	1184.5	193.0	16.4	8.5	5.6	6.6	3.3	0.0	0.0	0.0	0.0
80°	384.7	52.5	7.5	4.7	3.3	3.8	1.4	0.0	0.0	0.0	0.0
82.5°	71.2	15.0	4.2	2.3	0.9	0.9	0.0	0.0	0.0	0.0	0.0
85°	15.5	6.1	2.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	1.9	0.5	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

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