

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: P385839

Luminaire Tested: **GWC-SA1B-830-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385839  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA1B-830-U-T3  
Description: GALLEON WALL LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4851 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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



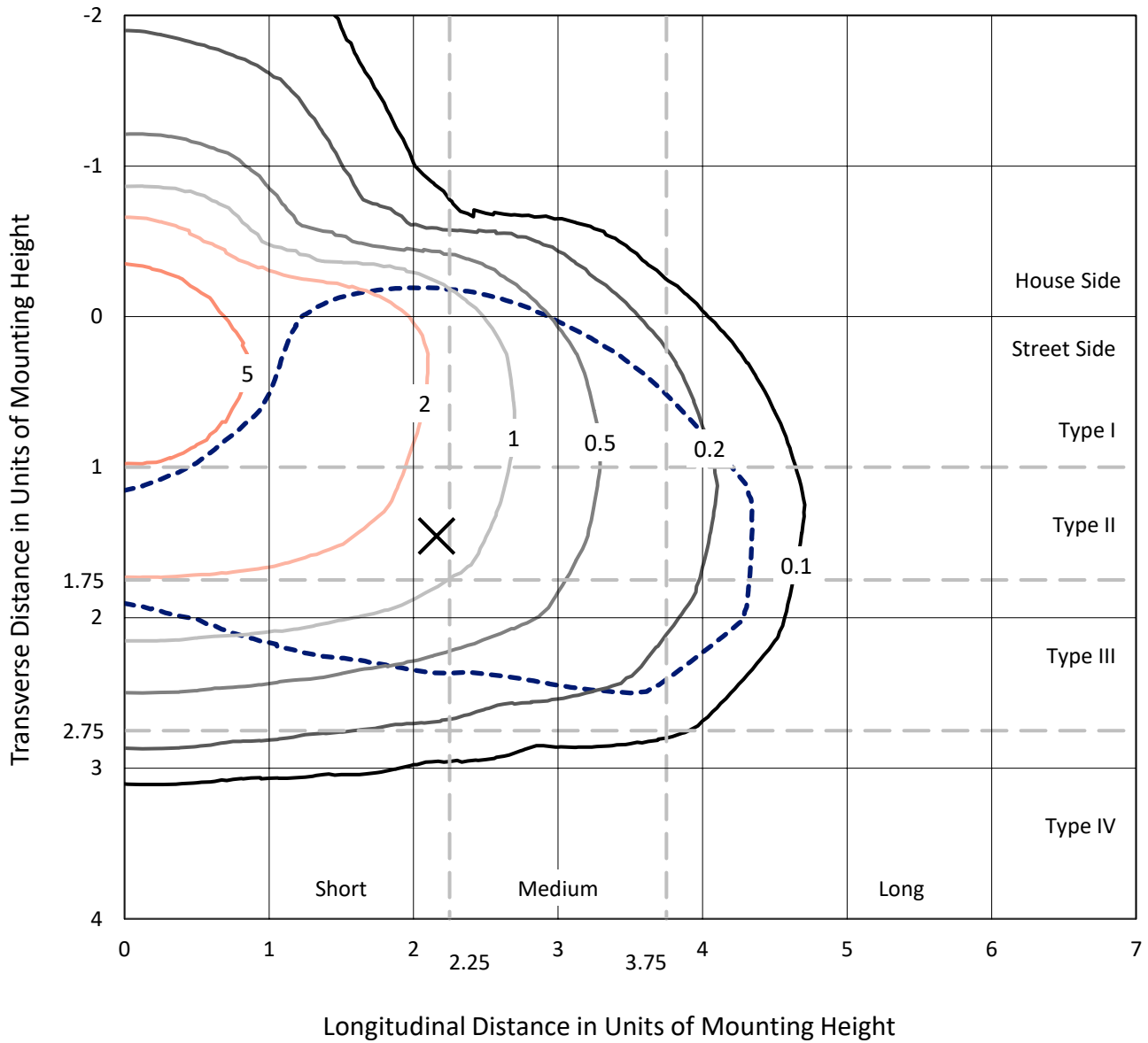
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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

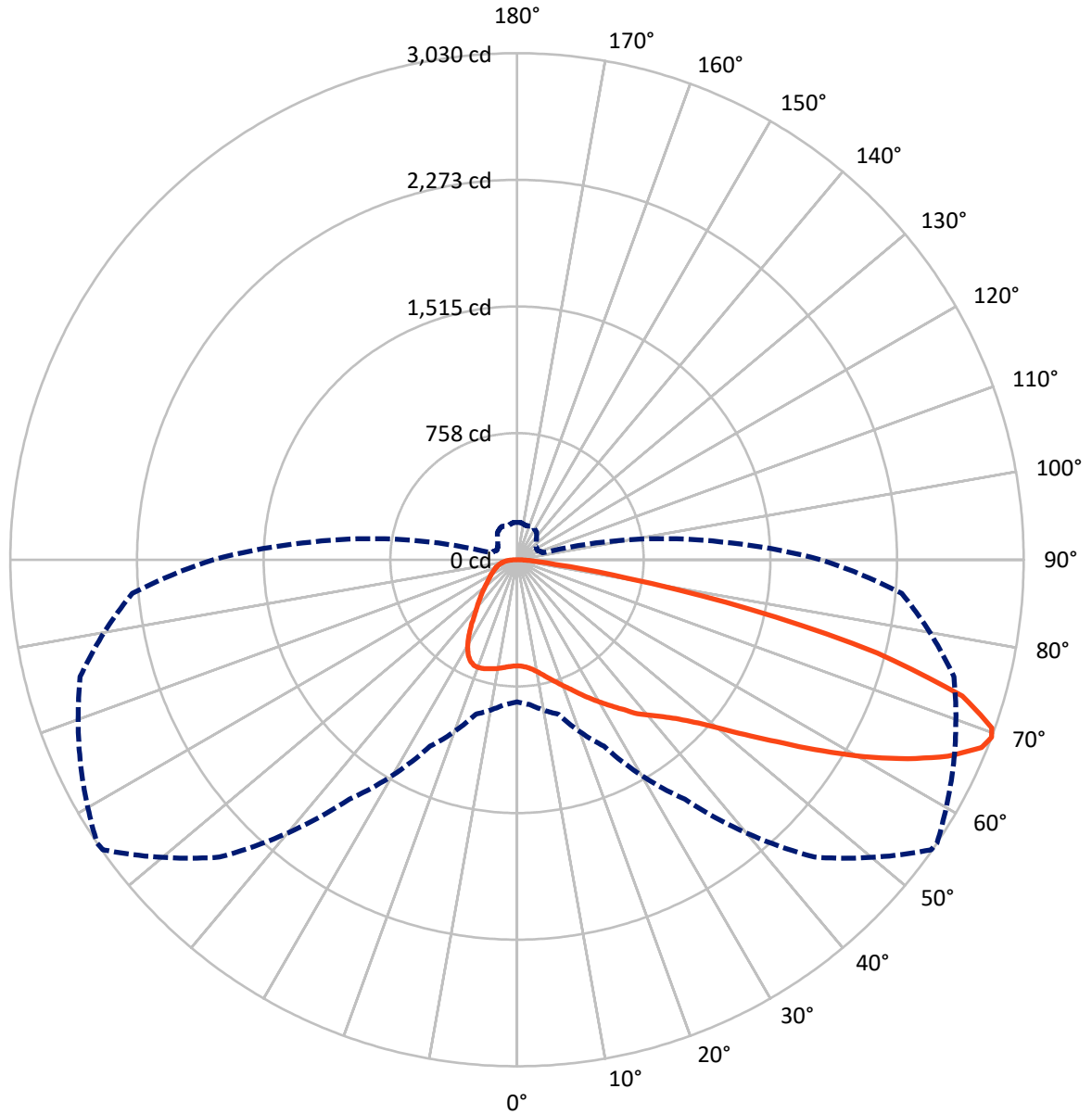
--- 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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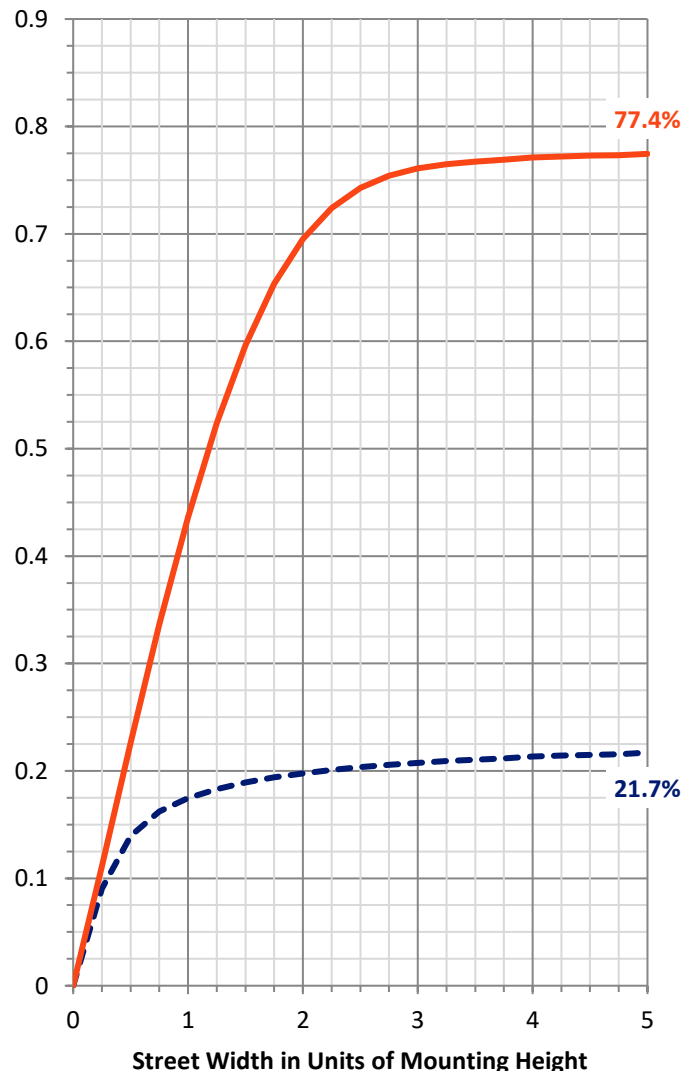
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1080.3	0.0	1080.3
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	3770.7	0.0	3770.7
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	4851.0	0.0	4851.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.3	1.3
10°-20°	200.3	4.1
20°-30°	349.6	7.2
30°-40°	502.2	10.4
40°-50°	695.1	14.3
50°-60°	1018.4	21.0
60°-70°	1241.6	25.6
70°-80°	686.4	14.2
80°-90°	95.1	2.0
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°	4851.0	100.0
0°-180°	4851.0	100.0



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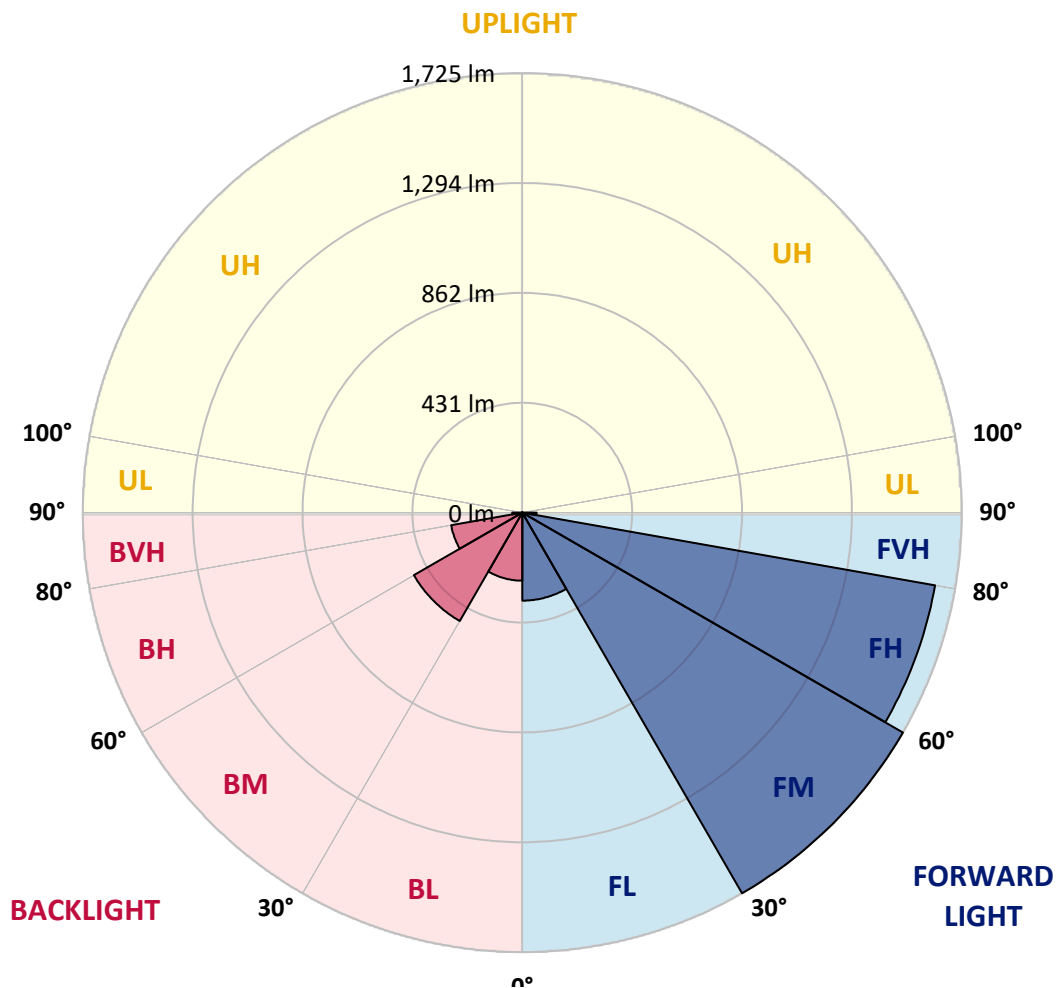
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	345.2	7.1			
FM (30°-60°)	1724.7	35.6			
FH (60°-80°)	1644.7	33.9			G1/1800
FVH (80°-90°)	56.0	1.2			G1/100
BL (0°-30°)	267.0	5.5	B1/500		
BM (30°-60°)	491.0	10.1	B1/1000		
BH (60°-80°)	283.3	5.8	B1/500		G1/500
BVH (80°-90°)	39.1	0.8			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	634.2	634.2	634.2	634.2	634.2	634.2	634.2	634.2	634.2	634.2	634.2
2.5°	638.2	638.9	638.4	639.7	638.2	639.2	638.4	638.4	637.9	636.4	634.7
5°	648.2	649.6	648.7	650.1	648.2	648.6	647.1	647.1	645.6	642.4	639.0
7.5°	663.9	665.4	664.8	666.1	663.6	663.6	661.6	661.4	658.4	653.2	649.4
10°	682.7	684.7	684.0	686.0	684.0	684.7	682.7	682.7	678.6	671.3	666.4
12.5°	709.9	712.4	710.6	710.4	709.6	710.9	709.2	708.9	705.2	695.2	688.5
15°	746.3	749.0	745.2	744.8	740.1	739.6	739.6	739.1	736.8	724.8	713.7
17.5°	788.3	789.1	785.8	780.4	774.4	770.6	770.1	771.4	771.4	757.4	739.8
20°	829.4	830.9	828.2	822.2	814.5	808.8	804.8	807.5	807.3	790.6	765.7
22.5°	874.2	877.7	873.7	866.0	857.0	850.6	843.6	845.9	846.1	825.5	791.1
25°	932.2	929.0	926.5	915.6	902.7	896.2	889.7	892.1	891.4	863.1	817.4
27.5°	983.5	984.1	980.8	969.3	954.4	940.0	939.7	941.2	938.7	902.2	842.1
30°	1043.1	1043.5	1038.8	1028.4	1012.2	993.7	989.3	991.8	986.5	939.3	868.2
32.5°	1102.4	1104.1	1098.9	1086.4	1073.4	1050.8	1042.1	1043.8	1030.4	977.3	895.1
35°	1154.4	1156.8	1155.1	1146.7	1132.5	1113.1	1102.8	1101.8	1085.2	1023.7	930.7
37.5°	1207.4	1209.6	1207.7	1200.7	1195.0	1174.5	1169.0	1169.0	1140.2	1071.2	975.9
40°	1261.9	1265.2	1263.0	1253.4	1248.5	1239.1	1225.9	1222.8	1191.7	1128.2	1049.8
42.5°	1312.5	1316.9	1325.5	1319.9	1310.0	1311.3	1284.8	1283.1	1260.4	1212.4	1142.6
45°	1384.4	1390.7	1405.4	1401.1	1399.1	1391.7	1360.1	1358.6	1349.9	1325.7	1257.7
47.5°	1462.7	1471.4	1498.0	1498.8	1520.4	1506.5	1463.6	1458.4	1460.4	1461.4	1398.2
50°	1534.9	1544.5	1588.1	1608.6	1659.4	1662.4	1593.8	1589.1	1596.9	1620.0	1562.0
52.5°	1592.6	1604.6	1659.1	1722.6	1809.7	1834.4	1754.0	1750.5	1756.4	1796.1	1747.2
55°	1634.9	1647.9	1707.2	1822.9	1961.9	2005.5	1938.5	1935.2	1938.8	1989.5	1948.5
57.5°	1644.7	1647.9	1734.0	1890.4	2090.4	2195.2	2164.3	2157.6	2139.6	2183.7	2170.8
60°	1598.4	1611.1	1711.9	1914.1	2189.9	2382.2	2400.2	2391.9	2341.3	2377.4	2367.0
62.5°	1504.5	1527.2	1629.5	1878.0	2228.8	2534.9	2631.7	2621.7	2534.4	2557.8	2508.0
65°	1351.1	1360.8	1468.3	1753.5	2179.3	2632.7	2838.1	2833.1	2723.3	2686.7	2534.1
67.5°	1076.7	1094.9	1186.2	1493.3	1977.0	2621.2	2997.7	2997.2	2846.6	2734.5	2441.7
69°	850.6	869.5	956.4	1230.1	1749.3	2515.7	3024.4	3030.3	2881.4	2705.4	2309.7
70°	678.1	700.0	759.7	1036.1	1547.3	2376.7	3002.2	3012.7	2874.7	2657.4	2187.8
72.5°	288.6	306.3	348.8	534.1	943.0	1774.7	2745.0	2784.8	2719.8	2432.2	1808.2
75°	126.0	131.5	150.7	217.7	418.6	965.9	2150.4	2223.9	2325.5	2055.8	1346.9
77.5°	92.2	94.6	105.1	127.8	187.8	364.8	1382.9	1425.6	1677.1	1496.0	826.2
80°	71.4	73.0	81.2	93.9	122.7	147.6	630.7	667.5	943.0	768.4	344.1
82.5°	56.8	58.0	63.7	69.2	84.7	89.4	209.4	232.3	348.1	212.2	91.1
85°	52.8	54.1	56.2	50.5	54.3	52.5	90.6	94.8	105.1	83.4	38.1
87.5°	23.9	28.2	55.6	39.3	28.9	23.1	37.1	38.8	43.6	43.8	16.9
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°	634.2	634.2	634.2	634.2	634.2	634.2	634.2	634.2	634.2	634.2	634.2
2.5°	635.7	635.2	636.0	634.0	636.5	636.4	635.5	635.9	637.5	637.4	637.5
5°	639.5	639.2	640.2	638.7	641.7	642.7	642.9	644.4	646.2	646.7	646.7
7.5°	649.2	649.2	649.7	647.7	649.7	649.6	648.7	650.2	652.1	652.2	652.1
10°	665.9	666.1	665.3	660.1	658.4	653.9	649.7	649.9	652.2	654.1	654.6
12.5°	687.0	686.3	682.7	673.1	666.1	656.9	652.6	652.4	654.8	656.3	656.8
15°	711.1	709.2	699.7	684.2	671.8	662.8	655.8	654.1	652.7	651.1	651.2
17.5°	733.8	729.6	713.7	692.2	679.1	667.1	653.6	642.7	635.2	630.9	629.5
20°	756.9	748.7	725.8	699.7	683.2	661.3	635.2	613.1	599.4	593.1	591.9
22.5°	777.9	764.7	737.0	707.6	680.0	641.5	600.6	568.5	549.5	540.9	541.6
25°	798.5	780.1	748.7	713.1	663.9	606.8	552.5	513.0	491.0	481.5	481.1
27.5°	816.5	795.6	761.4	708.6	634.0	557.3	495.5	457.1	438.7	430.5	429.1
30°	837.2	815.2	778.2	691.3	590.2	500.2	439.8	412.8	399.7	391.5	390.0
32.5°	862.5	841.8	792.1	660.1	534.3	440.5	396.4	377.5	365.6	356.5	354.8
35°	899.2	876.8	795.6	615.3	472.8	393.4	364.5	345.1	329.0	317.2	316.0
37.5°	945.4	920.8	787.6	557.3	413.1	362.8	337.9	314.0	293.1	276.4	273.7
40°	1011.9	974.8	765.4	490.5	369.2	339.2	312.0	284.8	258.9	239.3	235.5
42.5°	1091.8	1038.1	731.3	424.0	336.9	315.3	286.3	252.5	227.8	213.9	211.9
45°	1193.4	1104.0	684.0	365.8	305.1	291.4	258.5	227.4	212.1	201.9	200.2
47.5°	1309.3	1177.8	634.4	318.5	278.2	269.1	236.3	216.2	204.0	196.0	194.5
50°	1451.9	1261.2	581.7	279.7	251.2	242.1	225.8	210.1	200.4	194.2	192.7
52.5°	1612.6	1355.3	543.8	249.2	228.8	222.3	220.3	206.7	198.9	194.2	192.7
55°	1785.8	1451.0	502.8	223.4	209.4	211.2	216.6	207.1	201.7	196.0	193.9
57.5°	1959.1	1550.0	457.2	201.7	194.0	203.0	214.1	207.7	203.2	197.7	195.7
60°	2096.1	1612.6	386.5	183.5	181.8	194.0	208.1	202.7	196.9	197.0	196.7
62.5°	2160.1	1609.3	308.5	167.3	169.6	181.8	198.4	194.9	190.0	196.5	197.0
65°	2124.2	1529.1	240.1	152.6	156.6	169.1	188.3	191.0	192.7	205.2	206.9
67.5°	1973.4	1373.0	186.0	139.7	144.7	160.4	189.3	208.1	210.2	223.4	223.3
69°	1817.5	1226.6	161.6	133.0	138.9	162.6	202.4	218.9	210.7	224.8	222.8
70°	1686.8	1110.8	148.6	128.5	136.2	166.4	211.1	218.8	208.2	220.3	216.9
72.5°	1299.1	799.1	126.0	120.2	127.2	159.3	213.6	213.9	202.4	204.7	199.0
75°	891.0	505.0	110.0	108.8	113.5	143.6	205.5	204.4	187.2	183.8	179.1
77.5°	491.3	256.5	93.4	97.9	101.1	127.2	186.8	185.2	171.0	163.9	162.3
80°	189.5	112.3	78.9	87.1	89.1	110.1	163.8	162.3	150.4	141.4	138.9
82.5°	71.5	58.8	65.2	75.4	74.7	90.9	138.7	137.9	126.3	113.1	109.1
85°	33.1	35.3	51.6	62.2	57.3	67.3	111.0	112.5	98.4	82.7	82.7
87.5°	14.0	19.7	36.6	47.0	38.6	45.5	81.4	77.7	71.4	49.5	46.5
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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