

Classified  
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: P588503

Luminaire Tested: **GAT-CA6-LED-70-740-U-33-5-6-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588503  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GAT-CA6-LED-70-740-U-33-5-6-X  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR  
Light Source: (6) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7017 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U3 - G3

Input Watts (W): 73.9  
Input Voltage (V): 120  
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

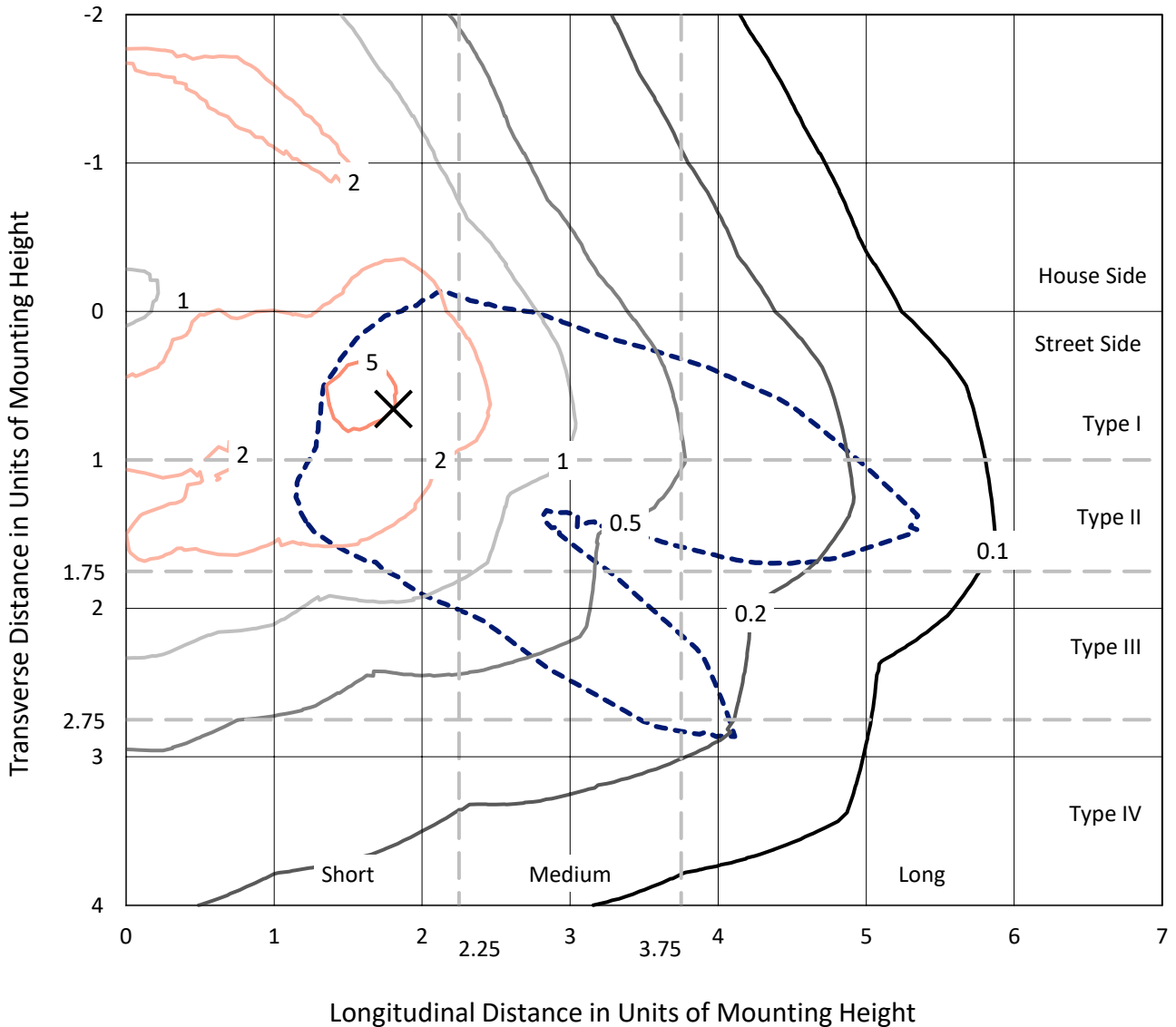


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### Iso-Footcandle Lines of Horizontal Illumination

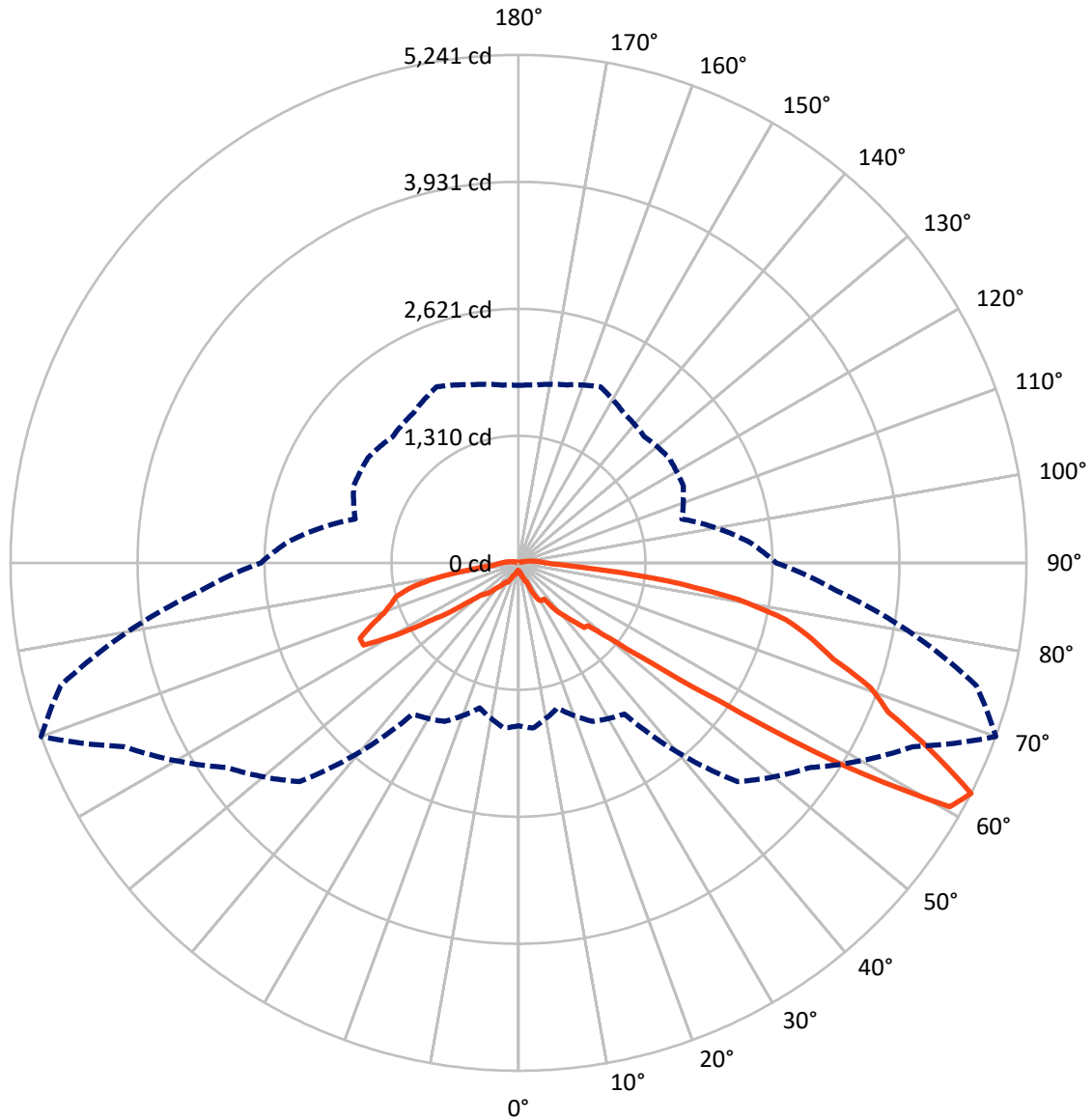
× Max cd  
- - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 fc  
Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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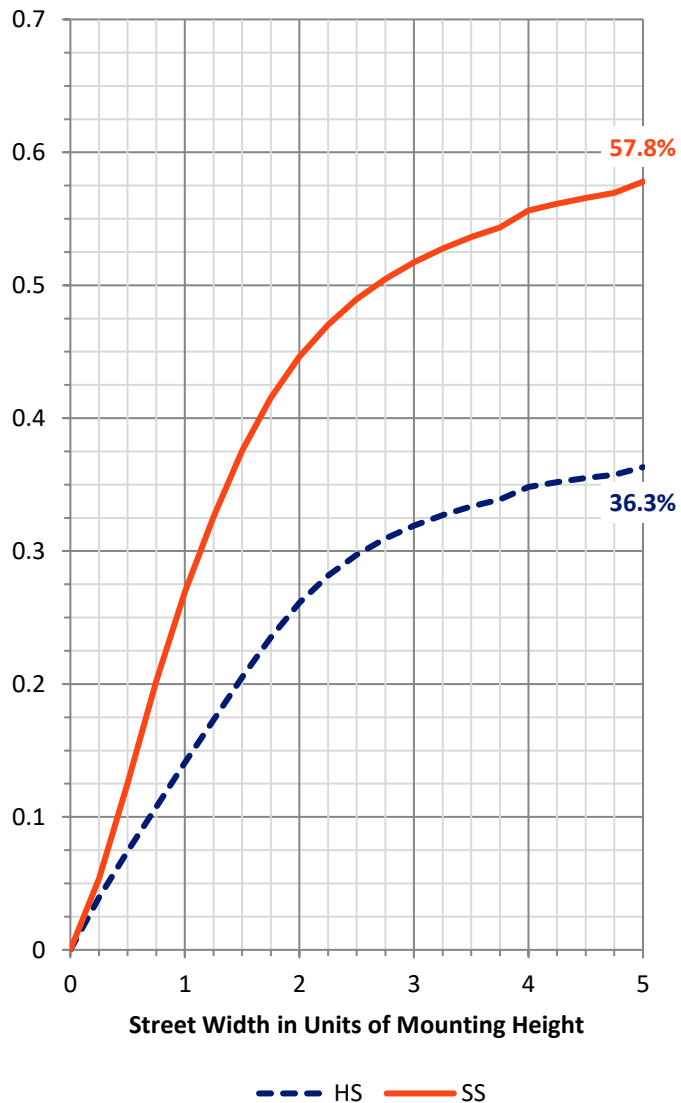
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2600.7	95.3	2696.0
	% Fixture	37.1	1.4	38.4
<b>Street Side</b>	Lumens	4190.0	131.0	4321.0
	% Fixture	59.7	1.9	61.6
<b>Total</b>	Lumens	6790.7	226.3	7017.0
	% Fixture	96.8	3.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.9	0.1
10°-20°	38.2	0.5
20°-30°	118.4	1.7
30°-40°	253.9	3.6
40°-50°	475.6	6.8
50°-60°	1234.2	17.6
60°-70°	2260.9	32.2
70°-80°	1813.4	25.8
80°-90°	587.2	8.4
90°-100°	154.7	2.2
100°-110°	50.3	0.7
110°-120°	19.7	0.3
120°-130°	1.5	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°	6790.7	96.8
0°-180°	7017.0	100.0

**Coefficient of Utilization**



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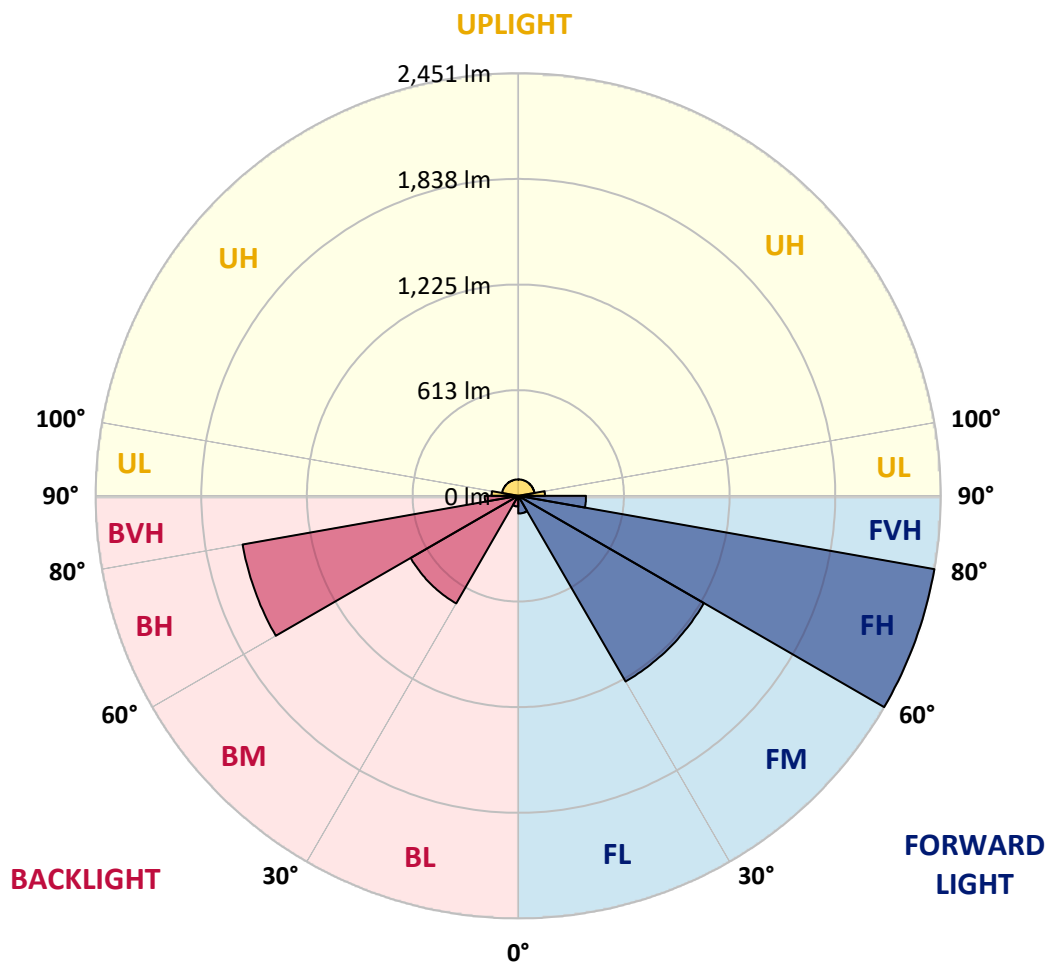
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	103.0	1.5			
FM	(30°-60°)	1243.3	17.7			
FH	(60°-80°)	2450.9	34.9			G2/5000
FVH	(80°-90°)	392.9	5.6			G3/500
BL	(0°-30°)	62.5	0.9	B0/110		
BM	(30°-60°)	720.4	10.3	B1/1000		
BH	(60°-80°)	1623.5	23.1	B3/2500		G3/2500
BVH	(80°-90°)	194.4	2.8			G2/225
UL	(90°-100°)	154.7	2.2		U3/500	
UH	(100°-180°)	95.3	1.4		U3/500	

**BUG Rating: B3-U3-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
2.5°	89.9	89.9	89.9	88.5	87.2	85.9	84.5	84.5	83.2	81.8	80.5
5°	97.9	96.6	95.2	92.6	91.2	91.2	89.9	89.9	89.9	88.5	87.2
7.5°	108.7	108.7	107.3	106.0	104.6	103.3	101.9	100.6	100.6	99.3	97.9
10°	123.4	123.4	123.4	122.1	122.1	120.7	118.0	116.7	114.0	112.7	108.7
12.5°	138.2	139.5	136.8	136.8	136.8	135.5	132.8	131.5	128.8	126.1	120.7
15°	152.9	151.6	150.2	148.9	151.6	151.6	150.2	150.2	144.9	140.8	131.5
17.5°	166.3	166.3	167.7	167.7	171.7	170.4	170.4	169.0	166.3	159.6	147.6
20°	187.8	189.1	189.1	189.1	202.6	207.9	209.3	210.6	206.6	193.2	169.0
22.5°	209.3	210.6	220.0	217.3	217.3	217.3	230.7	224.0	206.6	190.5	177.1
25°	283.0	287.1	289.7	299.1	309.9	339.4	386.3	371.6	344.7	289.7	244.1
27.5°	354.1	359.5	407.8	474.9	484.3	449.4	482.9	438.6	425.2	368.9	331.3
30°	386.3	395.7	478.9	524.5	540.6	495.0	543.3	458.8	454.7	414.5	382.3
32.5°	394.4	401.1	492.3	497.7	501.7	496.3	568.8	465.5	456.1	415.8	368.9
35°	382.3	390.4	452.1	421.2	422.5	517.8	653.3	501.7	458.8	389.0	336.7
37.5°	470.8	470.8	523.2	531.2	566.1	681.4	855.8	662.7	614.4	507.1	442.7
40°	536.6	543.3	626.4	657.3	662.7	760.6	1071.8	776.7	708.3	567.4	517.8
42.5°	625.1	623.8	700.2	721.7	736.4	772.7	1095.9	893.4	812.9	642.5	605.0
45°	639.9	661.3	731.1	706.9	725.7	818.3	1144.2	1058.4	951.1	784.7	706.9
47.5°	580.8	610.3	751.2	731.1	656.0	698.9	917.5	1086.6	968.5	806.2	751.2
50°	626.4	642.5	712.3	698.9	598.3	743.2	1007.4	1361.5	1230.1	959.1	818.3
52.5°	810.2	845.1	857.2	909.5	861.2	1112.0	1409.8	1725.1	1707.6	1388.4	1079.8
55°	1040.9	1091.9	1145.6	1344.1	1372.3	1746.5	1967.9	2304.6	2513.8	2195.9	1656.7
57.5°	1290.5	1362.9	1345.5	1633.9	1678.1	2366.3	2570.2	3358.9	3918.3	3486.4	2426.6
60°	1531.9	1580.2	1482.3	1735.8	1820.3	2979.3	3278.4	4374.4	5110.8	4650.7	2988.7
62.5°	1680.8	1711.7	1550.7	1805.6	1904.8	3192.6	3679.5	4488.4	5241.0	4890.8	3293.2
65°	1679.5	1671.4	1487.6	1709.0	1695.6	2947.1	3556.1	3772.1	4681.6	4622.6	3332.1
67.5°	1613.7	1616.4	1423.3	1599.0	1544.0	2598.3	3294.5	3191.3	4115.5	4194.6	3240.9
70°	1550.7	1582.9	1399.1	1552.0	1526.5	2499.1	3180.5	2872.0	3849.9	4000.1	3144.3
72.5°	1462.2	1493.0	1320.0	1454.1	1463.5	2300.5	2986.0	2507.1	3395.2	3576.2	2818.3
75°	1460.8	1499.7	1337.4	1455.4	1470.2	2187.9	3010.2	2381.0	3122.8	3365.6	2630.5
77.5°	1377.6	1412.5	1262.3	1372.3	1413.9	1979.9	2872.0	2224.1	2821.0	3093.3	2385.1
80°	1106.7	1153.6	1030.2	1102.7	1125.5	1485.0	2303.2	1821.7	2295.2	2567.5	1949.1
82.5°	756.6	799.5	717.7	771.3	800.8	973.9	1592.3	1311.9	1560.1	1726.4	1220.7
85°	437.3	488.3	440.0	433.3	448.0	513.8	857.2	697.5	725.7	763.3	541.9
87.5°	275.0	283.0	258.9	260.2	262.9	281.7	390.4	311.2	343.4	389.0	328.6
90°	218.7	226.7	209.3	210.6	206.6	224.0	292.4	237.4	264.3	304.5	260.2
92.5°	189.1	194.5	182.4	185.1	182.4	195.8	244.1	195.8	217.3	249.5	213.3
95°	161.0	165.0	158.3	159.6	151.6	159.6	190.5	148.9	165.0	187.8	159.6
97.5°	128.8	132.8	128.8	128.8	120.7	124.8	146.2	115.4	126.1	140.8	120.7
100°	101.9	103.3	101.9	100.6	93.9	93.9	101.9	83.2	87.2	96.6	83.2
102.5°	77.8	79.1	77.8	76.5	68.4	64.4	64.4	53.7	56.3	59.0	52.3
105°	61.7	63.0	61.7	59.0	52.3	48.3	46.9	38.9	38.9	40.2	36.2
107.5°	51.0	51.0	51.0	48.3	44.3	38.9	34.9	28.2	28.2	29.5	28.2
110°	41.6	41.6	40.2	38.9	34.9	30.9	26.8	22.8	22.8	22.8	21.5

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Scaled Data Report



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	34.9	34.9	33.5	32.2	28.2	24.1	21.5	18.8	18.8	18.8	17.4
115°	29.5	29.5	28.2	26.8	24.1	20.1	17.4	14.8	14.8	14.8	14.8
117.5°	25.5	25.5	24.1	22.8	20.1	17.4	14.8	12.1	12.1	12.1	12.1
120°	22.8	21.5	20.1	18.8	16.1	14.8	12.1	10.7	10.7	10.7	9.4
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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°	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
2.5°	80.5	80.5	79.1	79.1	79.1	77.8	77.8	79.1	79.1	79.1	79.1
5°	85.9	84.5	81.8	79.1	77.8	76.5	75.1	75.1	77.8	77.8	77.8
7.5°	96.6	95.2	91.2	88.5	85.9	83.2	81.8	80.5	81.8	83.2	83.2
10°	107.3	106.0	100.6	96.6	95.2	92.6	91.2	89.9	91.2	91.2	91.2
12.5°	118.0	115.4	111.3	106.0	103.3	101.9	100.6	99.3	99.3	99.3	99.3
15°	127.4	123.4	119.4	115.4	112.7	110.0	108.7	107.3	108.7	110.0	110.0
17.5°	142.2	138.2	128.8	122.1	120.7	118.0	116.7	116.7	118.0	119.4	119.4
20°	158.3	150.2	139.5	132.8	131.5	127.4	126.1	126.1	127.4	128.8	128.8
22.5°	171.7	166.3	150.2	140.8	139.5	138.2	139.5	139.5	140.8	142.2	142.2
25°	218.7	197.2	174.4	167.7	166.3	163.7	161.0	159.6	161.0	165.0	166.3
27.5°	295.1	256.2	213.3	198.5	198.5	201.2	206.6	209.3	203.9	201.2	202.6
30°	346.1	293.8	232.1	218.7	221.3	234.7	246.8	254.9	249.5	245.5	246.8
32.5°	332.7	284.4	240.1	237.4	245.5	256.2	262.9	266.9	277.7	281.7	287.1
35°	303.2	266.9	242.8	253.5	258.9	258.9	258.9	258.9	279.0	297.8	303.2
37.5°	370.2	308.5	288.4	292.4	288.4	284.4	288.4	299.1	316.6	331.3	335.4
40°	434.6	356.8	323.3	320.6	319.3	332.7	356.8	375.6	381.0	367.6	370.2
42.5°	505.7	403.8	360.8	364.9	375.6	397.1	423.9	423.9	423.9	411.8	415.8
45°	572.8	458.8	433.3	444.0	444.0	454.7	469.5	460.1	472.2	477.5	484.3
47.5°	651.9	532.5	476.2	466.8	468.2	489.6	495.0	491.0	499.0	489.6	489.6
50°	676.1	544.6	500.4	536.6	536.6	512.4	492.3	495.0	517.8	543.3	548.6
52.5°	859.9	674.7	634.5	672.1	688.2	646.6	646.6	651.9	657.3	676.1	681.4
55°	1286.4	961.8	841.1	928.3	940.3	965.8	1035.6	1024.9	963.1	932.3	929.6
57.5°	1923.6	1427.3	1047.7	1171.1	1248.9	1353.5	1405.8	1375.0	1291.8	1263.6	1232.8
60°	2458.8	1954.5	1357.5	1572.2	1688.9	1706.3	1687.5	1690.2	1627.2	1647.3	1639.2
62.5°	2657.4	2398.5	1745.2	1875.3	1892.8	1839.1	1888.7	2002.8	1900.8	1840.4	1831.0
65°	2716.4	2563.5	1853.9	1769.3	1753.2	1743.9	1939.7	2130.2	1902.1	1761.3	1760.0
67.5°	2657.4	2394.4	1715.7	1576.2	1613.7	1690.2	1945.1	2016.2	1801.5	1645.9	1635.2
70°	2580.9	2122.1	1544.0	1423.3	1510.4	1621.8	1784.1	1755.9	1671.4	1533.3	1526.5
72.5°	2303.2	1839.1	1434.0	1333.4	1432.6	1464.8	1545.3	1533.3	1557.4	1470.2	1466.2
75°	2061.8	1688.9	1368.3	1250.2	1298.5	1293.1	1357.5	1372.3	1440.7	1403.1	1388.4
77.5°	1778.7	1468.9	1205.9	1069.1	1087.9	1086.6	1117.4	1126.8	1175.1	1177.8	1161.7
80°	1392.4	1150.9	941.7	804.9	807.5	783.4	787.4	786.1	795.5	806.2	791.4
82.5°	799.5	642.5	533.9	446.7	427.9	395.7	389.0	391.7	387.7	385.0	385.0
85°	391.7	304.5	280.4	250.8	240.1	232.1	236.1	244.1	248.2	240.1	236.1
87.5°	264.3	228.0	217.3	205.2	199.9	191.8	197.2	203.9	209.3	202.6	201.2
90°	209.3	181.1	178.4	175.7	171.7	165.0	170.4	178.4	182.4	177.1	174.4
92.5°	169.0	146.2	146.2	144.9	140.8	135.5	142.2	148.9	152.9	148.9	147.6
95°	130.1	112.7	116.7	114.0	110.0	108.7	112.7	118.0	120.7	118.0	118.0
97.5°	100.6	88.5	92.6	91.2	85.9	84.5	87.2	91.2	93.9	91.2	89.9
100°	68.4	63.0	68.4	68.4	63.0	60.4	63.0	67.1	68.4	68.4	67.1
102.5°	45.6	42.9	49.6	51.0	48.3	45.6	46.9	49.6	51.0	51.0	51.0
105°	32.2	32.2	38.9	40.2	37.6	34.9	37.6	38.9	38.9	38.9	38.9
107.5°	25.5	26.8	30.9	33.5	30.9	28.2	29.5	30.9	30.9	30.9	32.2
110°	21.5	21.5	25.5	28.2	25.5	24.1	24.1	24.1	24.1	25.5	28.2

Classified

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

Scaled Data Report



REPORT NUMBER: P588503

CATALOG NUMBER: GAT-CA6-LED-70-740-U-33-5-6-X

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	17.4	18.8	21.5	22.8	21.5	20.1	20.1	20.1	20.1	21.5	25.5
115°	14.8	16.1	18.8	18.8	17.4	17.4	17.4	16.1	16.1	17.4	24.1
117.5°	12.1	13.4	14.8	14.8	14.8	13.4	13.4	13.4	13.4	16.1	25.5
120°	10.7	10.7	12.1	12.1	10.7	10.7	10.7	10.7	9.4	13.4	20.1
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)