

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: P588622

Luminaire Tested: **GAT-CA6-LED-80-760-U-33-5-X-X-GHSS**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588622  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2109-372-13)  
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-80-760-U-33-5-X-X-GHSS  
Description: GENERATIONS SERIES AVENUE WITH NO CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD  
Light Source: (3) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5682 lumens  
Efficiency: N/A  
Efficacy: 134.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.08')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G5

Input Watts (W): 42.3  
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



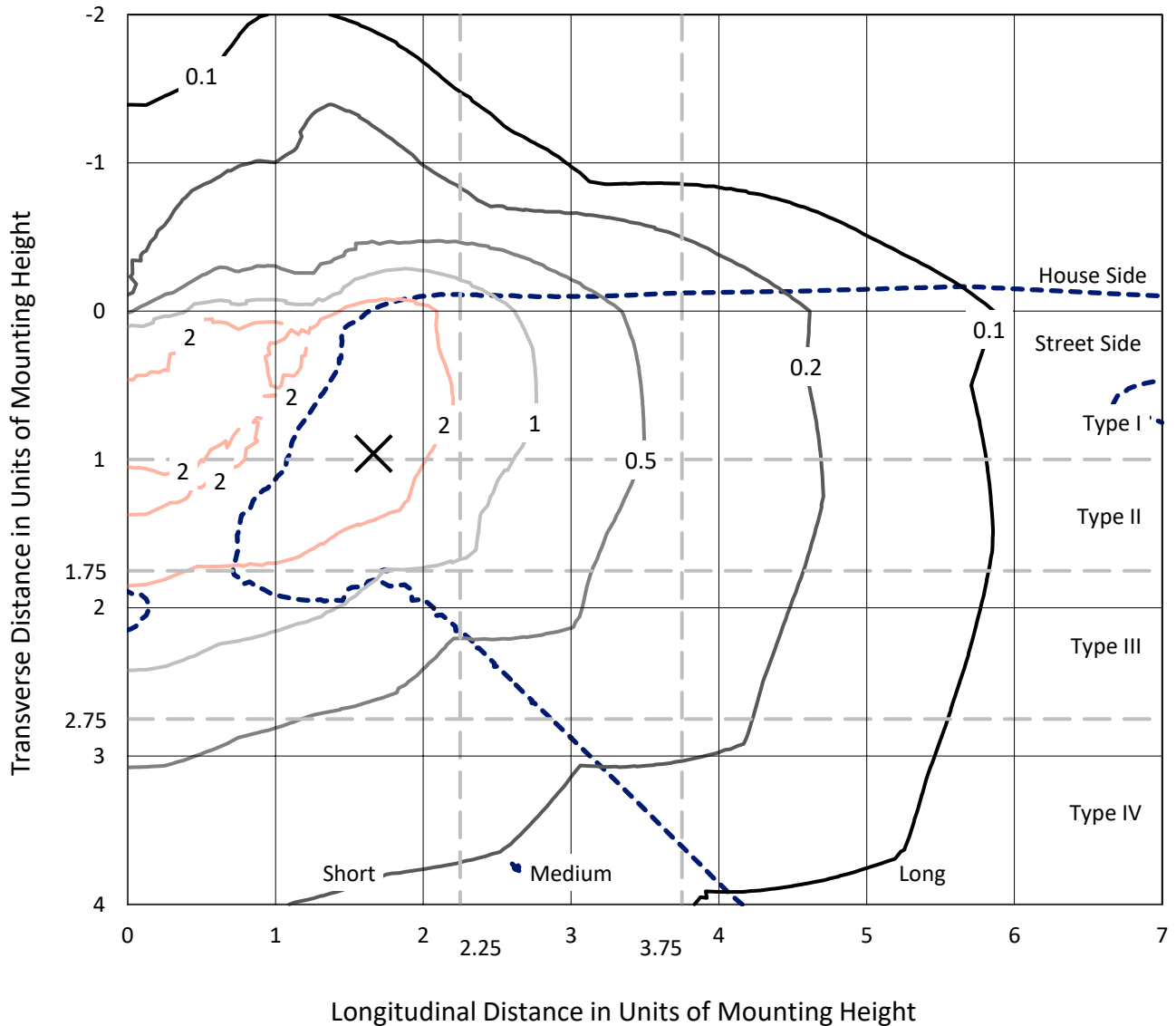


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 fc  
Type III - Short - Non-Cutoff

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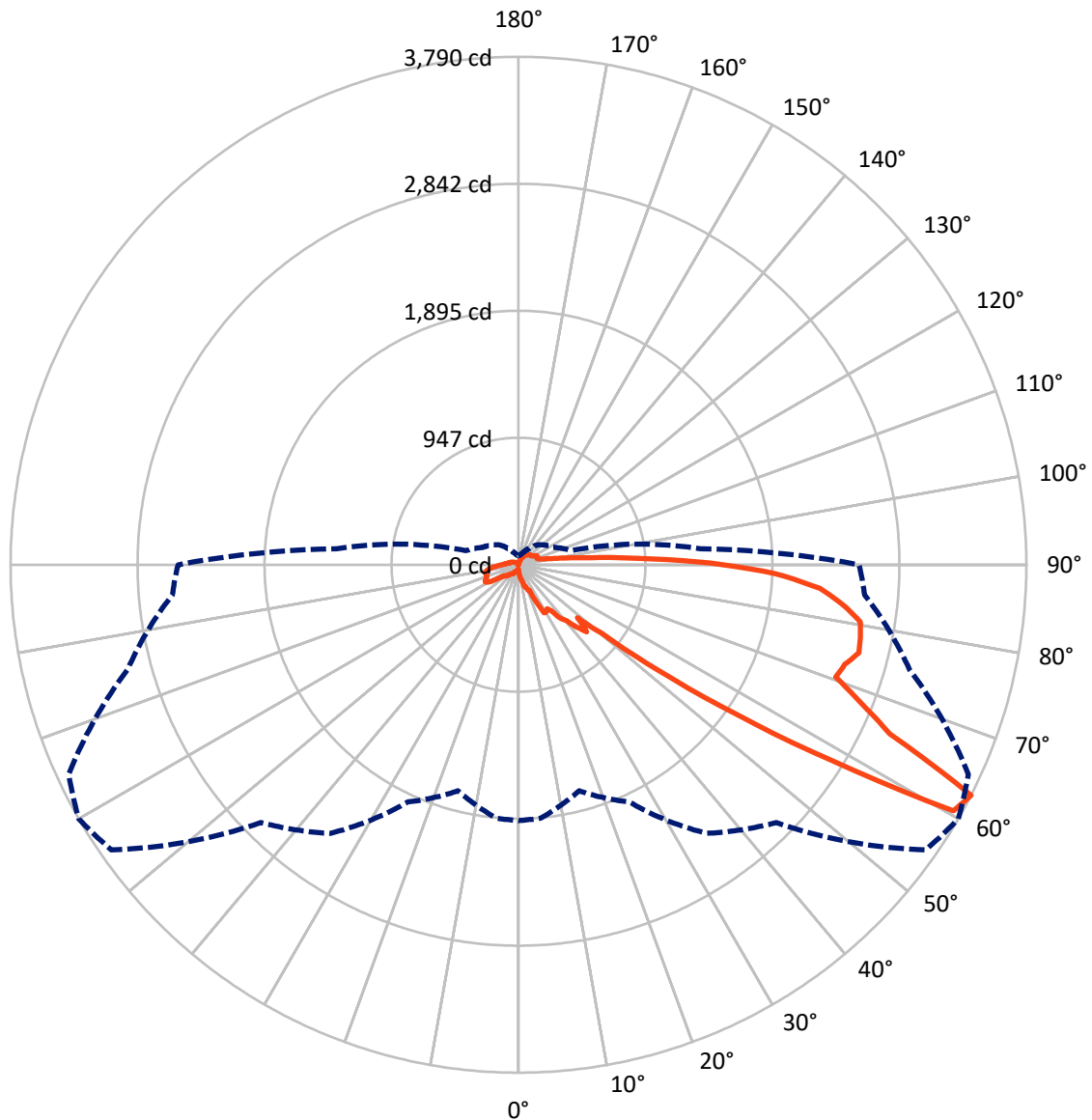
Scaled Data Report



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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical



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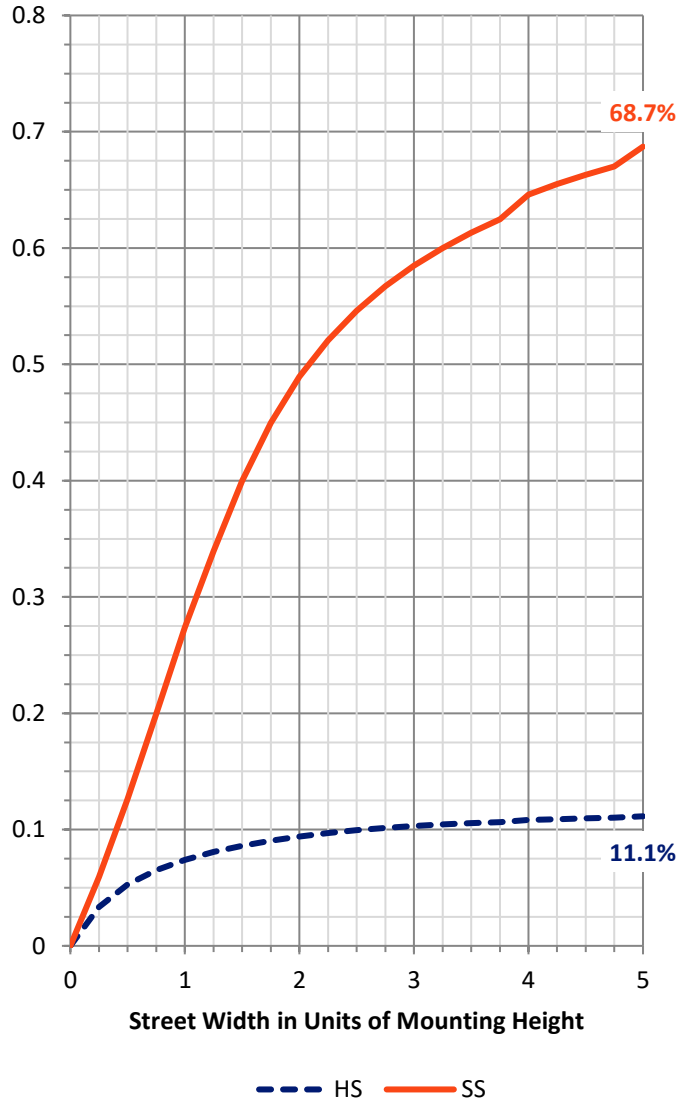
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	666.6	132.9	799.4
	% Fixture	11.7	2.3	14.1
<b>Street Side</b>	Lumens	4340.2	542.3	4882.5
	% Fixture	76.4	9.5	85.9
<b>Total</b>	Lumens	5006.8	675.2	5682.0
	% Fixture	88.1	11.9	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.9	0.1
10°-20°	27.3	0.5
20°-30°	81.2	1.4
30°-40°	163.2	2.9
40°-50°	287.3	5.1
50°-60°	793.3	14.0
60°-70°	1371.5	24.1
70°-80°	1273.1	22.4
80°-90°	1003.9	17.7
90°-100°	318.5	5.6
100°-110°	113.6	2.0
110°-120°	93.4	1.6
120°-130°	61.4	1.1
130°-140°	43.7	0.8
140°-150°	28.3	0.5
150°-160°	13.0	0.2
160°-170°	3.2	0.1
170°-180°	0.1	0.0
0°-90°	5006.8	88.1
0°-180°	5682.0	100.0

**Coefficient of Utilization**



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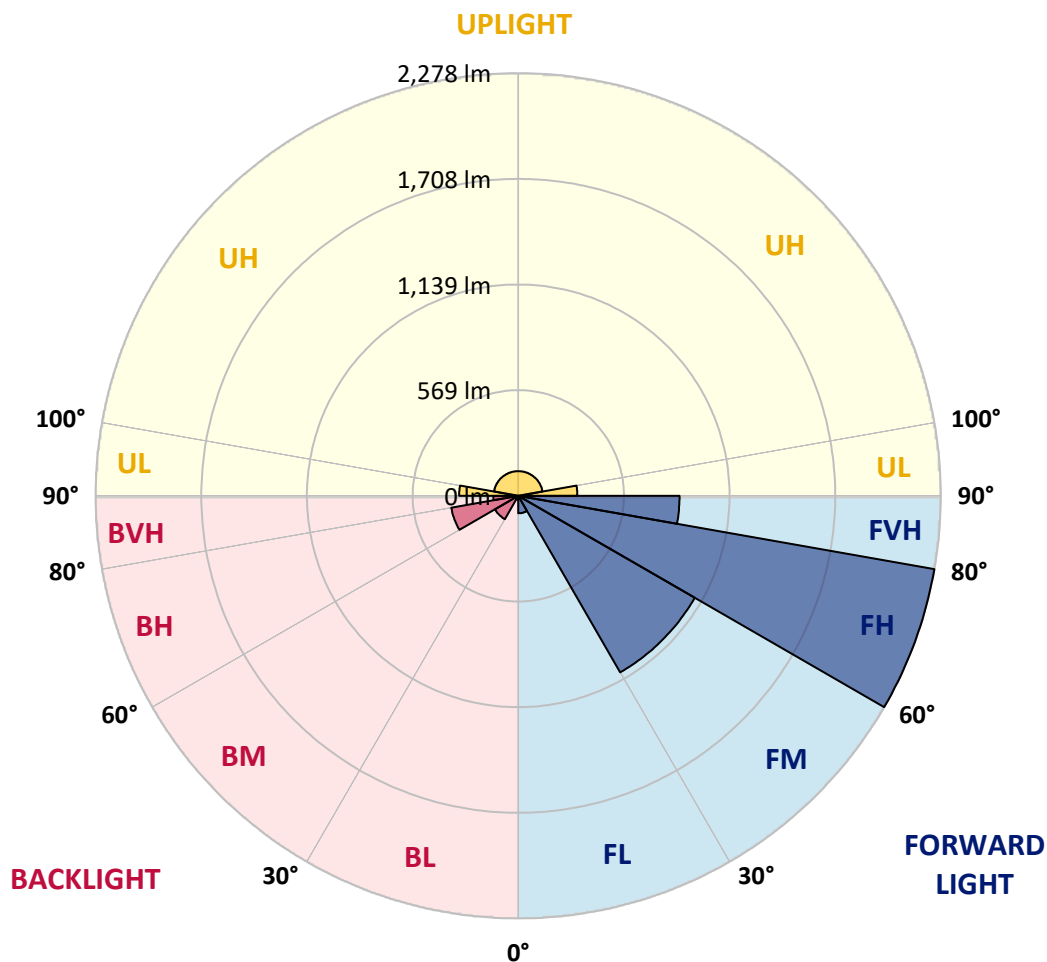
CATALOG NUMBER: GAT-CA6-LED-80-760-U-33-5-X-X-GHSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	94.3	1.7			
FM (30°-60°)	1098.7	19.3			
FH (60°-80°)	2278.0	40.1			G2/5000
FVH (80°-90°)	869.3	15.3			G5
BL (0°-30°)	20.2	0.4	B0/110		
BM (30°-60°)	145.1	2.6	B0/220		
BH (60°-80°)	366.6	6.5	B1/500		G1/500
BVH (80°-90°)	134.6	2.4			G2/225
UL (90°-100°)	318.5	5.6		U3/500	
UH (100°-180°)	132.9	2.3		U3/500	

**BUG Rating: B1-U3-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
2.5°	67.3	65.6	66.5	66.5	67.3	63.8	60.3	57.7	55.1	51.6	47.2
5°	96.2	94.4	91.8	90.9	89.2	85.7	80.4	78.7	73.5	66.5	57.7
7.5°	117.2	116.3	115.4	112.8	111.1	105.8	99.7	97.1	90.9	81.3	70.8
10°	132.9	132.9	133.8	129.4	121.5	117.2	111.9	110.2	105.8	92.7	79.6
12.5°	146.0	144.3	137.3	133.8	130.3	131.2	132.0	131.2	129.4	107.6	89.2
15°	158.3	156.5	151.3	146.9	144.3	153.0	172.3	170.5	169.6	135.5	104.1
17.5°	167.0	167.0	172.3	175.8	180.1	167.0	163.5	168.8	174.9	149.5	118.0
20°	192.4	188.9	184.5	181.0	202.9	193.2	196.7	202.9	207.2	167.0	129.4
22.5°	181.0	181.9	201.1	208.1	197.6	192.4	204.6	207.2	208.1	191.5	134.7
25°	247.5	236.1	229.1	251.0	249.2	287.7	299.1	306.9	306.9	259.7	188.0
27.5°	341.9	341.9	371.6	429.3	419.7	420.6	407.5	406.6	423.2	439.0	285.9
30°	370.8	380.4	463.4	492.3	523.8	484.4	441.6	408.4	415.4	500.2	333.2
32.5°	379.5	388.2	488.8	457.3	468.7	453.0	459.1	391.7	375.1	460.8	324.4
35°	331.4	343.7	425.8	385.6	363.8	411.0	467.8	419.7	411.9	378.6	293.8
37.5°	442.5	448.6	477.4	471.3	478.3	480.9	549.1	505.4	514.2	457.3	371.6
40°	508.0	501.0	613.9	641.0	630.5	620.8	614.7	547.4	557.9	529.9	502.8
42.5°	624.3	616.5	696.0	712.7	715.3	689.9	718.8	634.0	607.7	550.0	626.1
45°	632.2	636.6	711.8	668.9	713.5	759.9	812.3	714.4	667.2	570.1	727.5
47.5°	559.6	578.9	744.1	706.5	662.8	621.7	641.8	592.0	553.5	451.2	699.5
50°	571.0	578.9	684.7	640.1	532.5	659.3	836.0	800.1	758.1	559.6	674.2
52.5°	808.0	804.5	850.8	853.4	880.6	989.9	1338.8	1309.9	1316.9	1089.5	1003.8
55°	1107.9	1106.2	1223.3	1410.5	1565.2	1618.6	2074.2	1960.5	1908.9	1688.5	1772.5
57.5°	1432.3	1447.2	1498.8	1761.1	2026.1	2095.1	2808.7	2750.1	2636.4	2202.7	2426.5
60°	1774.2	1765.5	1689.4	1861.7	2285.8	2630.3	3700.6	3728.6	3502.1	2772.8	2648.7
62.5°	1908.9	1897.5	1746.2	1951.7	2445.8	2719.5	3709.3	3789.8	3703.2	3019.4	2592.7
65°	1886.1	1859.9	1658.8	1820.6	2064.5	2313.7	3311.5	3044.8	3186.4	3087.6	2451.0
67.5°	1797.0	1790.8	1603.7	1692.9	1852.0	1884.4	3024.7	2755.3	2806.1	3148.8	2493.0
70°	1685.0	1683.3	1541.6	1609.0	1835.4	1802.2	2799.9	2510.5	2480.8	2818.3	2503.5
72.5°	1688.5	1686.8	1530.3	1553.0	1796.1	1741.9	2776.3	2545.5	2491.3	2655.6	2382.8
75°	1717.4	1719.1	1553.0	1578.3	1851.2	1754.1	2832.3	2623.3	2568.2	2639.9	2286.6
77.5°	1689.4	1703.4	1539.9	1596.7	1886.1	1752.4	2806.1	2608.4	2530.6	2510.5	2103.0
80°	1595.8	1615.1	1468.2	1533.8	1854.7	1776.0	2784.2	2585.7	2486.9	2376.7	1971.0
82.5°	1400.0	1420.1	1307.3	1367.6	1725.3	1678.9	2631.2	2438.8	2350.5	2158.1	1798.7
85°	1203.2	1249.6	1194.5	1203.2	1523.3	1537.3	2424.8	2255.2	2193.9	2026.1	1740.1
87.5°	993.4	1033.6	982.0	919.9	1141.1	1221.6	2005.1	1921.1	1904.5	1788.2	1510.1
90°	735.4	772.1	741.5	660.2	773.0	823.7	1477.8	1431.4	1467.3	1334.4	1038.0
92.5°	533.4	539.5	503.7	436.3	515.0	539.5	968.9	898.0	940.0	817.6	608.6
95°	356.8	371.6	343.7	314.8	373.4	376.0	597.2	544.8	522.0	469.6	363.8
97.5°	261.5	262.3	251.8	225.6	262.3	265.8	397.0	357.6	337.5	315.7	251.8
100°	207.2	207.2	191.5	174.9	182.8	189.8	276.3	249.2	238.7	229.1	189.8
102.5°	181.0	180.1	167.0	150.4	149.5	153.0	209.0	190.6	182.8	176.6	149.5
105°	171.4	170.5	157.4	139.9	135.5	132.9	174.0	161.8	156.5	151.3	134.7
107.5°	169.6	167.9	154.8	139.0	132.0	125.0	156.5	146.0	146.9	141.7	129.4
110°	171.4	171.4	160.0	150.4	139.0	129.4	157.4	146.0	149.5	147.8	134.7

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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	167.0	171.4	167.0	160.9	148.7	140.8	164.4	151.3	155.6	155.6	139.0
115°	157.4	161.8	161.8	155.6	144.3	141.7	162.6	151.3	153.0	150.4	129.4
117.5°	144.3	146.9	145.2	138.2	128.5	126.8	151.3	146.0	146.0	138.2	120.7
120°	134.7	129.4	122.4	117.2	111.9	116.3	136.4	131.2	126.8	123.3	110.2
122.5°	120.7	114.6	106.7	104.1	100.6	106.7	124.2	119.8	115.4	113.7	104.1
125°	99.7	99.7	96.2	94.4	93.6	102.3	122.4	118.0	111.9	108.4	97.1
127.5°	96.2	96.2	93.6	91.8	92.7	103.2	119.8	115.4	108.4	104.1	93.6
130°	97.1	95.3	91.8	89.2	90.1	102.3	118.9	113.7	106.7	103.2	93.6
132.5°	91.8	90.1	87.4	85.7	84.8	97.1	112.8	110.2	104.9	97.1	86.6
135°	89.2	87.4	85.7	84.8	84.8	94.4	107.6	104.9	99.7	90.9	79.6
137.5°	88.3	86.6	83.1	82.2	81.3	90.1	100.6	98.8	93.6	85.7	76.1
140°	83.9	81.3	78.7	77.8	77.8	84.8	95.3	93.6	88.3	82.2	73.5
142.5°	77.8	76.1	73.5	73.5	74.3	81.3	92.7	91.8	85.7	78.7	70.8
145°	74.3	72.6	70.8	71.7	72.6	78.7	87.4	86.6	82.2	76.1	68.2
147.5°	68.2	67.3	65.6	64.7	66.5	71.7	81.3	81.3	78.7	70.8	63.0
150°	59.5	58.6	56.8	56.0	57.7	63.0	70.8	70.8	68.2	60.3	53.3
152.5°	49.8	49.0	49.0	49.8	51.6	54.2	61.2	62.1	59.5	51.6	45.5
155°	43.7	42.8	42.8	43.7	46.3	49.0	53.3	53.3	50.7	45.5	39.3
157.5°	37.6	36.7	36.7	37.6	40.2	42.0	46.3	45.5	43.7	39.3	34.1
160°	28.9	28.0	28.0	28.9	31.5	33.2	36.7	36.7	35.9	33.2	28.9
162.5°	21.9	21.0	21.0	21.9	23.6	24.5	27.1	28.0	28.0	26.2	22.7
165°	16.6	15.7	15.7	15.7	17.5	18.4	19.2	19.2	19.2	18.4	15.7
167.5°	10.5	9.6	9.6	10.5	11.4	11.4	12.2	12.2	11.4	11.4	9.6
170°	5.2	4.4	4.4	5.2	5.2	5.2	4.4	3.5	3.5	3.5	3.5
172.5°	1.7	0.9	2.6	2.6	1.7	0.0	0.0	0.9	0.9	0.9	0.0
175°	1.7	0.9	2.6	2.6	1.7	0.0	0.0	0.9	0.0	0.9	0.0
177.5°	0.9	0.9	2.6	2.6	1.7	0.0	0.0	0.0	0.0	0.9	0.0
180°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
2.5°	45.5	44.6	41.1	35.9	30.6	25.4	24.5	25.4	26.2	27.1	28.0
5°	54.2	50.7	43.7	35.9	28.9	21.9	18.4	16.6	15.7	16.6	17.5
7.5°	65.6	61.2	52.5	42.8	34.1	27.1	22.7	18.4	15.7	15.7	16.6
10°	73.5	68.2	57.7	47.2	38.5	30.6	25.4	21.0	18.4	16.6	16.6
12.5°	82.2	75.2	61.2	49.8	40.2	33.2	28.0	23.6	21.0	19.2	19.2
15°	91.8	83.9	67.3	52.5	42.8	35.0	30.6	26.2	22.7	21.0	21.0
17.5°	107.6	94.4	70.8	55.1	44.6	36.7	31.5	27.1	23.6	21.9	21.9
20°	114.6	99.7	71.7	57.7	47.2	38.5	32.4	27.1	24.5	22.7	22.7
22.5°	114.6	98.8	73.5	59.5	49.8	40.2	33.2	28.0	24.5	22.7	22.7
25°	144.3	108.4	75.2	63.8	52.5	42.0	35.0	28.9	25.4	23.6	23.6
27.5°	202.0	141.7	86.6	68.2	56.0	44.6	36.7	30.6	26.2	24.5	24.5
30°	222.1	158.3	98.8	79.6	61.2	47.2	38.5	32.4	28.0	25.4	25.4
32.5°	226.5	155.6	105.8	87.4	70.0	51.6	40.2	34.1	28.9	26.2	26.2
35°	204.6	144.3	105.8	90.9	75.2	57.7	44.6	35.9	29.7	27.1	26.2
37.5°	238.7	155.6	108.4	91.8	77.8	62.1	49.8	38.5	31.5	28.0	28.0
40°	308.7	184.5	121.5	97.1	78.7	64.7	55.1	42.8	34.1	29.7	29.7
42.5°	361.1	208.1	135.5	110.2	85.7	68.2	56.8	46.3	37.6	32.4	31.5
45°	405.7	230.8	147.8	122.4	97.9	76.1	60.3	49.8	41.1	35.9	35.0
47.5°	413.6	242.2	157.4	134.7	107.6	83.9	65.6	53.3	45.5	39.3	38.5
50°	399.6	243.1	160.9	142.5	118.0	92.7	71.7	57.7	49.0	42.8	42.8
52.5°	571.0	303.4	176.6	146.9	121.5	99.7	79.6	63.0	52.5	47.2	47.2
55°	1030.1	490.6	228.2	174.0	130.3	104.9	86.6	70.8	57.7	51.6	51.6
57.5°	1664.9	766.0	301.7	232.6	167.9	121.5	94.4	78.7	64.7	56.0	56.0
60°	2206.2	1080.8	367.3	283.3	220.4	167.0	114.6	89.2	72.6	62.1	61.2
62.5°	2540.2	1364.1	405.7	302.6	251.8	211.6	153.9	111.9	82.2	70.8	69.1
65°	2465.9	1505.8	422.4	300.8	250.1	225.6	183.6	139.0	98.8	81.3	78.7
67.5°	2264.8	1506.6	419.7	287.7	237.0	214.2	182.8	150.4	114.6	91.8	88.3
70°	2164.2	1480.4	406.6	278.1	226.5	200.2	169.6	138.2	112.8	97.9	96.2
72.5°	2116.1	1462.9	398.7	276.3	224.7	195.0	160.9	123.3	101.4	93.6	95.3
75°	2127.5	1473.4	402.2	278.9	228.2	197.6	157.4	114.6	89.2	80.4	82.2
77.5°	2102.1	1452.4	407.5	278.1	226.5	193.2	146.9	104.9	81.3	72.6	71.7
80°	2123.1	1407.0	395.2	269.3	213.4	175.8	130.3	93.6	74.3	68.2	67.3
82.5°	1962.2	1225.1	351.5	245.7	193.2	151.3	109.3	82.2	70.0	63.0	63.0
85°	1798.7	993.4	301.7	216.0	159.1	118.9	87.4	71.7	61.2	56.0	56.0
87.5°	1365.0	711.8	233.5	177.5	132.9	102.3	79.6	69.1	60.3	56.8	56.0
90°	843.8	439.0	174.0	141.7	112.8	90.9	75.2	66.5	59.5	56.8	56.8
92.5°	472.2	280.7	134.7	116.3	97.1	81.3	69.1	60.3	54.2	51.6	51.6
95°	320.0	209.9	115.4	104.1	86.6	71.7	60.3	52.5	47.2	43.7	43.7
97.5°	231.7	165.3	102.3	93.6	77.8	63.0	53.3	45.5	41.1	39.3	39.3
100°	177.5	133.8	92.7	83.9	69.1	55.1	46.3	39.3	35.0	33.2	33.2
102.5°	142.5	112.8	83.9	76.1	61.2	49.0	39.3	32.4	28.9	28.0	27.1
105°	128.5	104.9	78.7	70.8	56.0	44.6	35.0	28.9	25.4	23.6	23.6
107.5°	125.0	104.9	77.8	69.1	53.3	42.0	31.5	26.2	22.7	21.0	21.0
110°	132.9	111.1	78.7	67.3	49.8	38.5	28.9	23.6	20.1	19.2	19.2

Classified

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

Scaled Data Report



REPORT NUMBER: P588622

CATALOG NUMBER: GAT-CA6-LED-80-760-U-33-5-X-X-GHSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	137.3	111.9	75.2	63.0	46.3	35.0	27.1	21.9	19.2	17.5	17.5
115°	125.9	100.6	69.1	56.0	41.1	31.5	25.4	21.0	17.5	15.7	15.7
117.5°	121.5	94.4	67.3	49.0	37.6	28.9	23.6	19.2	16.6	14.9	14.9
120°	121.5	91.8	59.5	42.8	34.1	26.2	21.9	17.5	14.9	14.0	14.0
122.5°	117.2	84.8	52.5	37.6	29.7	22.7	19.2	15.7	14.0	12.2	12.2
125°	106.7	78.7	42.8	34.1	27.1	21.0	17.5	14.9	12.2	11.4	11.4
127.5°	100.6	77.8	40.2	31.5	24.5	19.2	15.7	13.1	10.5	9.6	9.6
130°	99.7	77.8	37.6	28.0	21.9	16.6	14.0	11.4	9.6	8.7	8.7
132.5°	89.2	70.8	35.9	26.2	20.1	15.7	13.1	10.5	8.7	7.9	7.9
135°	80.4	65.6	35.0	24.5	18.4	14.0	11.4	9.6	7.0	7.0	7.0
137.5°	74.3	60.3	35.0	22.7	16.6	12.2	10.5	8.7	6.1	6.1	6.1
140°	70.0	56.0	34.1	21.9	14.9	11.4	9.6	7.0	5.2	5.2	5.2
142.5°	65.6	52.5	31.5	21.0	14.0	9.6	8.7	7.0	5.2	4.4	4.4
145°	60.3	48.1	28.0	19.2	13.1	8.7	7.9	6.1	4.4	3.5	3.5
147.5°	55.1	42.8	24.5	16.6	12.2	7.9	7.0	5.2	3.5	3.5	3.5
150°	47.2	36.7	21.9	14.9	10.5	7.0	6.1	4.4	3.5	2.6	2.6
152.5°	38.5	31.5	19.2	13.1	9.6	6.1	5.2	3.5	2.6	1.7	1.7
155°	34.1	28.0	17.5	11.4	7.9	5.2	4.4	2.6	2.6	1.7	1.7
157.5°	29.7	24.5	15.7	9.6	6.1	3.5	3.5	2.6	1.7	1.7	0.9
160°	24.5	21.0	13.1	7.9	5.2	2.6	2.6	1.7	1.7	0.9	0.9
162.5°	19.2	15.7	9.6	6.1	3.5	1.7	1.7	1.7	1.7	0.9	0.0
165°	13.1	11.4	7.0	4.4	2.6	0.9	0.9	1.7	0.9	0.9	0.0
167.5°	8.7	7.0	4.4	2.6	1.7	0.0	0.9	0.9	0.9	0.9	0.0
170°	3.5	3.5	2.6	1.7	0.0	0.0	0.0	0.9	0.9	0.9	0.0
172.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.0
175°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	0.9	0.0
177.5°	0.9	0.9	0.9	0.9	0.0	0.0	0.9	0.9	0.9	0.9	0.0
180°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

(END OF REPORT)