

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: P588628

Luminaire Tested: **GAT-CA6-LED-90-730-U-33-5-X-X-GHSS**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588628  
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-90-730-U-33-5-X-X-GHSS  
Description: GENERATIONS SERIES AVENUE WITH NO CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD  
Light Source: (3) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6155 lumens  
Efficiency: N/A  
Efficacy: 130.4 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): 47.2  
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

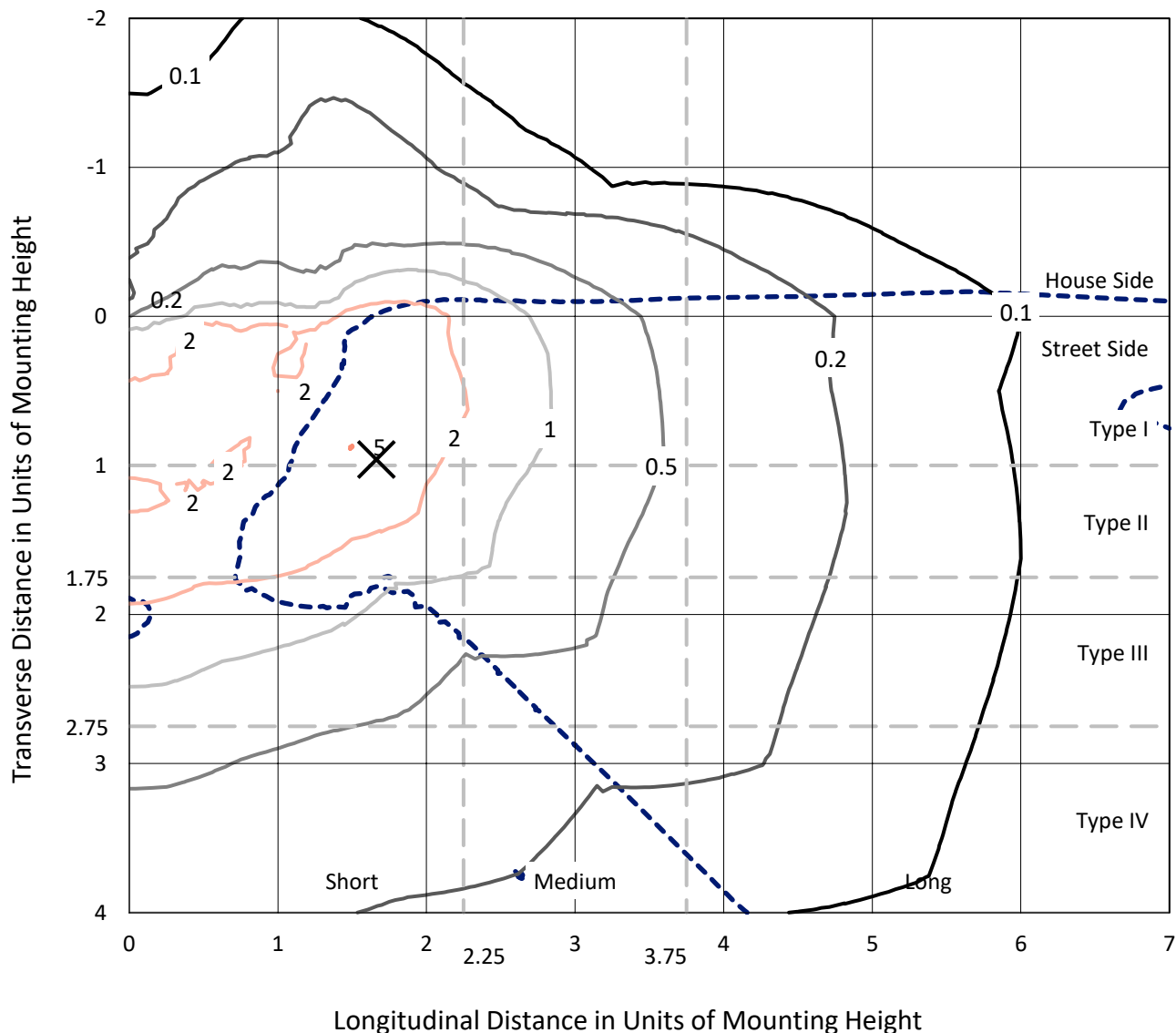


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 fc  
Type III - Short - Non-Cutoff

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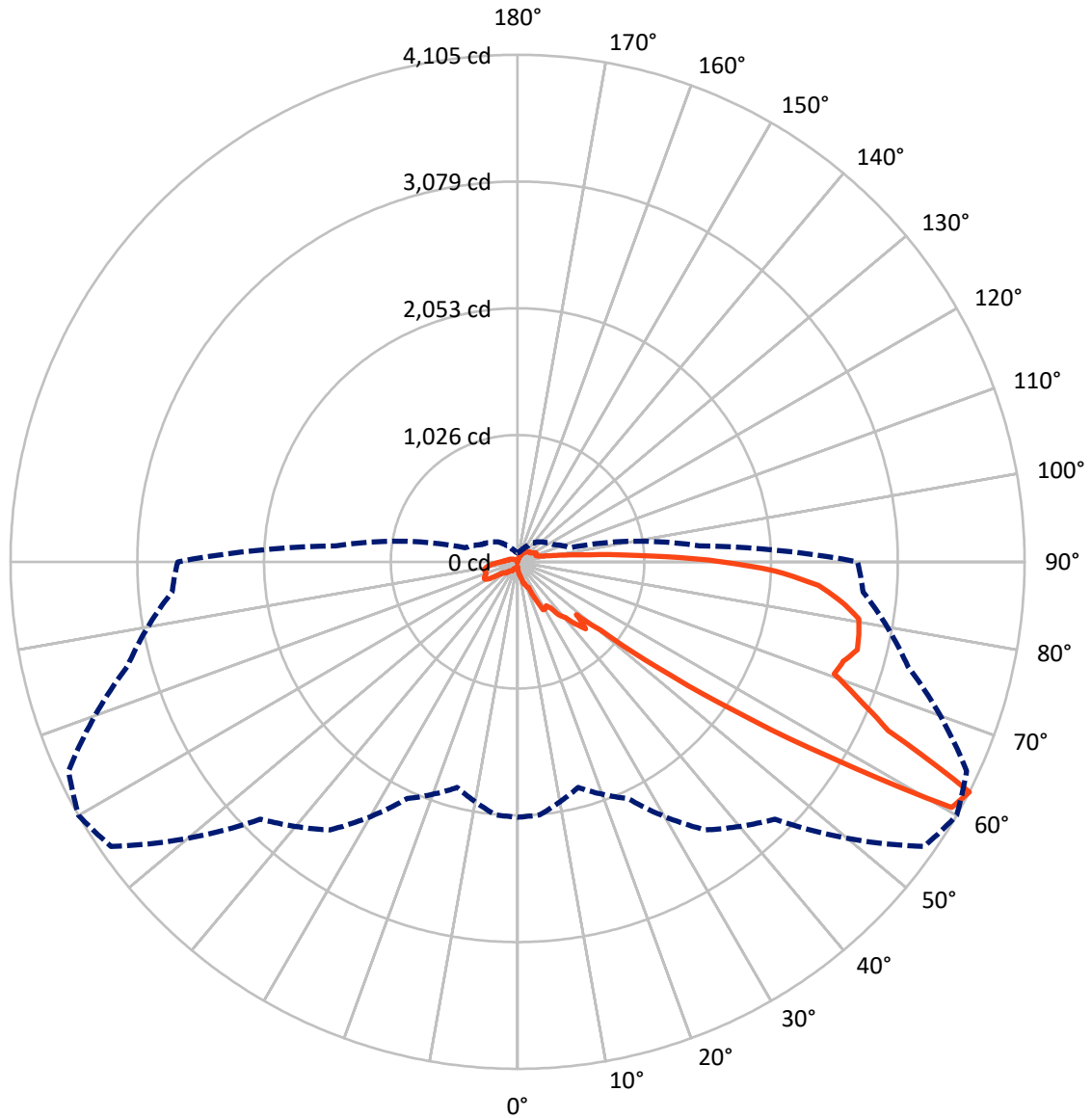
Scaled Data Report



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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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Scaled Data Report



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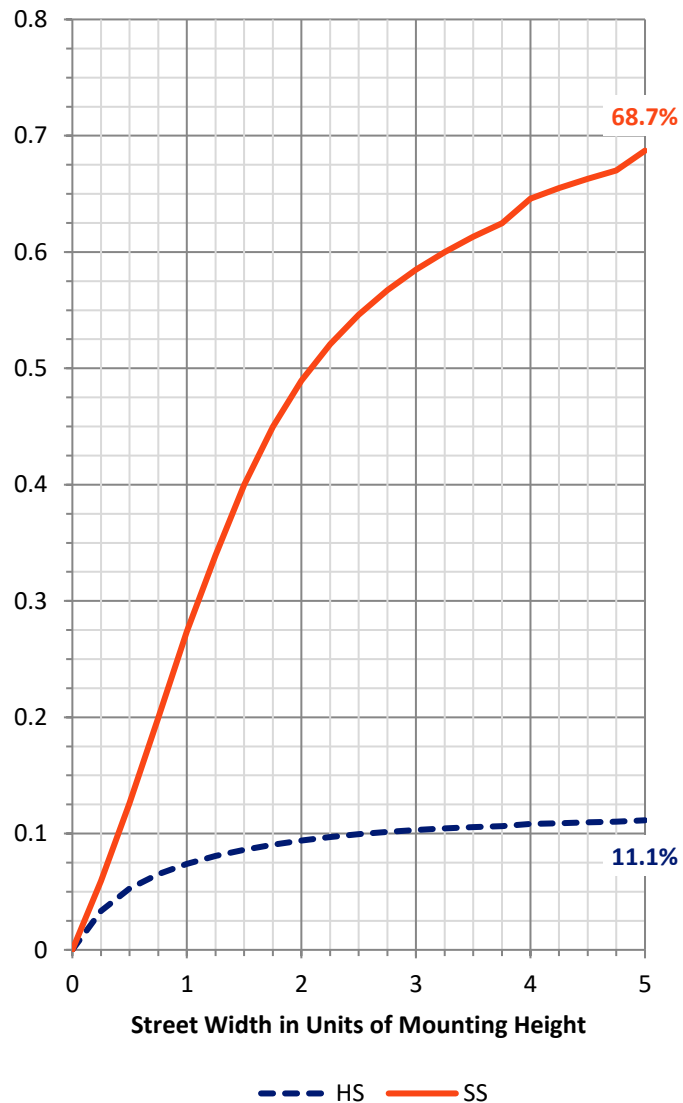
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	722.0	144.0	866.0
	% Fixture	11.7	2.3	14.1
<b>Street Side</b>	Lumens	4701.5	587.5	5289.0
	% Fixture	76.4	9.5	85.9
<b>Total</b>	Lumens	5423.6	731.4	6155.0
	% Fixture	88.1	11.9	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.4	0.1
10°-20°	29.6	0.5
20°-30°	88.0	1.4
30°-40°	176.8	2.9
40°-50°	311.2	5.1
50°-60°	859.3	14.0
60°-70°	1485.7	24.1
70°-80°	1379.1	22.4
80°-90°	1087.4	17.7
90°-100°	345.0	5.6
100°-110°	123.1	2.0
110°-120°	101.1	1.6
120°-130°	66.5	1.1
130°-140°	47.4	0.8
140°-150°	30.6	0.5
150°-160°	14.1	0.2
160°-170°	3.5	0.1
170°-180°	0.1	0.0
0°-90°	5423.6	88.1
0°-180°	6155.0	100.0

**Coefficient of Utilization**



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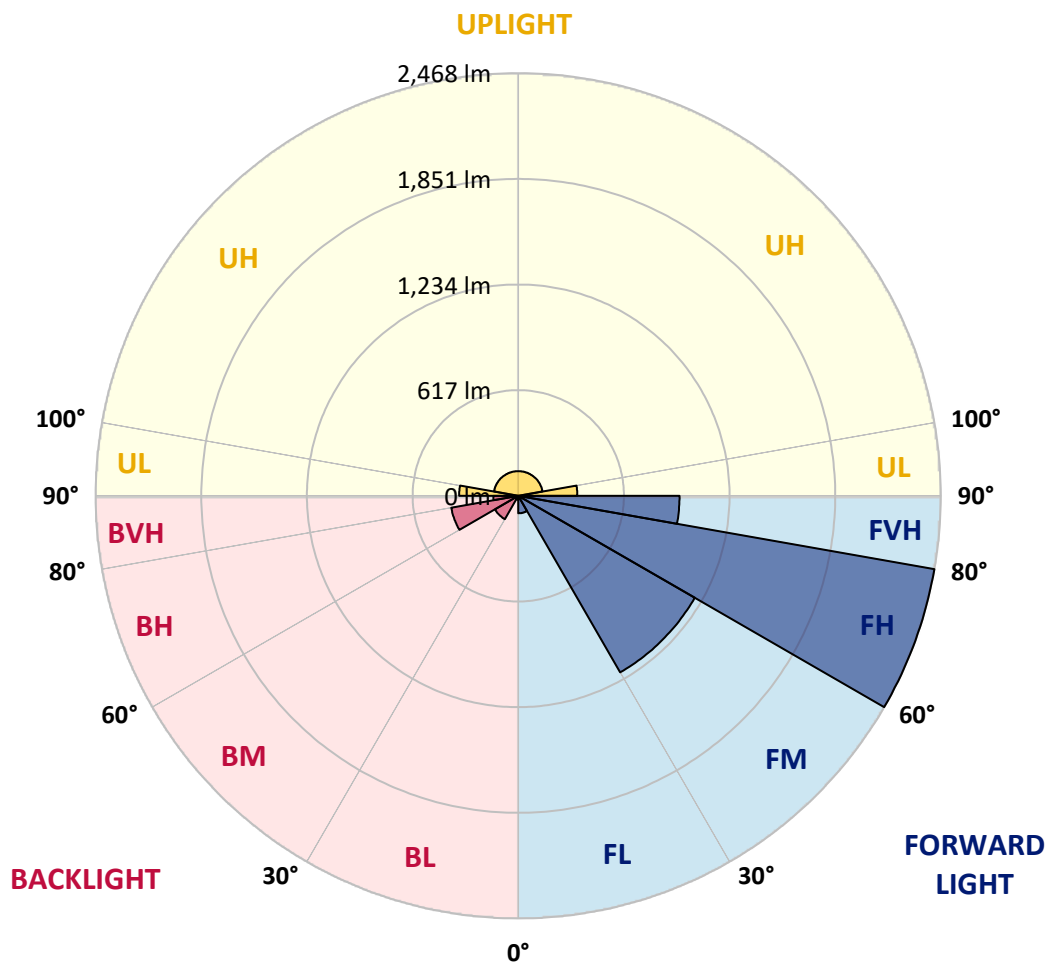
CATALOG NUMBER: GAT-CA6-LED-90-730-U-33-5-X-X-GHSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	102.2	1.7			
FM (30°-60°)	1190.1	19.3			
FH (60°-80°)	2467.6	40.1			G2/5000
FVH (80°-90°)	941.6	15.3			G5
BL (0°-30°)	21.9	0.4	B0/110		
BM (30°-60°)	157.2	2.6	B0/220		
BH (60°-80°)	397.2	6.5	B1/500		G1/500
BVH (80°-90°)	145.8	2.4			G2/225
UL (90°-100°)	345.0	5.6		U3/500	
UH (100°-180°)	144.0	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°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
2.5°	72.9	71.0	72.0	72.0	72.9	69.1	65.4	62.5	59.7	55.9	51.2
5°	104.2	102.3	99.5	98.5	96.6	92.8	87.1	85.3	79.6	72.0	62.5
7.5°	126.9	126.0	125.0	122.2	120.3	114.6	108.0	105.1	98.5	88.1	76.7
10°	144.0	144.0	144.9	140.2	131.7	126.9	121.2	119.4	114.6	100.4	86.2
12.5°	158.2	156.3	148.7	144.9	141.1	142.1	143.0	142.1	140.2	116.5	96.6
15°	171.4	169.6	163.9	159.1	156.3	165.8	186.6	184.7	183.8	146.8	112.7
17.5°	180.9	180.9	186.6	190.4	195.1	180.9	177.1	182.8	189.4	162.0	127.9
20°	208.4	204.6	199.9	196.1	219.8	209.3	213.1	219.8	224.5	180.9	140.2
22.5°	196.1	197.0	217.9	225.4	214.1	208.4	221.7	224.5	225.4	207.4	145.9
25°	268.1	255.8	248.2	271.9	270.0	311.6	324.0	332.5	332.5	281.3	203.7
27.5°	370.4	370.4	402.6	465.1	454.7	455.6	441.4	440.5	458.5	475.5	309.7
30°	401.6	412.0	502.0	533.3	567.4	524.8	478.3	442.4	449.9	541.8	360.9
32.5°	411.1	420.6	529.5	495.4	507.7	490.7	497.3	424.4	406.4	499.2	351.4
35°	359.0	372.3	461.3	417.7	394.0	445.2	506.8	454.7	446.1	410.1	318.3
37.5°	479.3	485.9	517.2	510.6	518.1	521.0	594.9	547.5	557.0	495.4	402.6
40°	550.3	542.8	665.0	694.3	682.9	672.5	665.9	593.0	604.3	574.0	544.7
42.5°	676.3	667.8	754.0	772.0	774.8	747.4	778.6	686.7	658.3	595.8	678.2
45°	684.8	689.6	771.0	724.6	772.9	823.1	880.0	773.9	722.7	617.6	788.1
47.5°	606.2	627.1	806.1	765.4	718.0	673.5	695.3	641.3	599.6	488.8	757.8
50°	618.5	627.1	741.7	693.4	576.9	714.2	905.5	866.7	821.2	606.2	730.3
52.5°	875.2	871.4	921.6	924.5	953.9	1072.3	1450.2	1418.9	1426.5	1180.2	1087.4
55°	1200.1	1198.2	1325.2	1527.9	1695.5	1753.3	2246.8	2123.7	2067.8	1829.1	1920.0
57.5°	1551.6	1567.7	1623.5	1907.7	2194.7	2269.5	3042.5	2979.0	2855.9	2386.1	2628.5
60°	1921.9	1912.4	1830.0	2016.6	2476.0	2849.2	4008.7	4039.0	3793.6	3003.6	2869.1
62.5°	2067.8	2055.5	1891.6	2114.2	2649.4	2945.9	4018.1	4105.3	4011.5	3270.8	2808.5
65°	2043.2	2014.7	1796.9	1972.1	2236.4	2506.4	3587.1	3298.2	3451.7	3344.6	2655.1
67.5°	1946.5	1939.9	1737.2	1833.8	2006.2	2041.3	3276.4	2984.7	3039.6	3411.0	2700.5
70°	1825.3	1823.4	1670.0	1742.9	1988.2	1952.2	3033.0	2719.5	2687.3	3052.9	2711.9
72.5°	1829.1	1827.2	1657.6	1682.3	1945.6	1886.9	3007.4	2757.4	2698.6	2876.7	2581.2
75°	1860.3	1862.2	1682.3	1709.7	2005.3	1900.1	3068.1	2841.7	2782.0	2859.7	2477.0
77.5°	1830.0	1845.2	1668.1	1729.6	2043.2	1898.2	3039.6	2825.6	2741.3	2719.5	2278.1
80°	1728.7	1749.5	1590.4	1661.4	2009.1	1923.8	3016.0	2800.9	2693.9	2574.6	2135.0
82.5°	1516.5	1538.3	1416.1	1481.5	1868.9	1818.7	2850.2	2641.8	2546.1	2337.7	1948.4
85°	1303.4	1353.6	1293.9	1303.4	1650.1	1665.2	2626.7	2442.9	2376.6	2194.7	1885.0
87.5°	1076.0	1119.6	1063.7	996.5	1236.1	1323.3	2172.0	2081.1	2063.1	1937.1	1635.9
90°	796.6	836.4	803.2	715.2	837.3	892.3	1600.8	1550.6	1589.4	1445.5	1124.4
92.5°	577.8	584.4	545.6	472.7	557.9	584.4	1049.5	972.8	1018.3	885.7	659.3
95°	386.5	402.6	372.3	341.0	404.5	407.3	647.0	590.1	565.5	508.7	394.0
97.5°	283.2	284.2	272.8	244.4	284.2	288.0	430.0	387.4	365.6	341.9	272.8
100°	224.5	224.5	207.4	189.4	198.0	205.5	299.3	270.0	258.6	248.2	205.5
102.5°	196.1	195.1	180.9	162.9	162.0	165.8	226.4	206.5	198.0	191.3	162.0
105°	185.7	184.7	170.5	151.6	146.8	144.0	188.5	175.2	169.6	163.9	145.9
107.5°	183.8	181.9	167.7	150.6	143.0	135.5	169.6	158.2	159.1	153.5	140.2
110°	185.7	185.7	173.3	162.9	150.6	140.2	170.5	158.2	162.0	160.1	145.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	180.9	185.7	180.9	174.3	161.0	152.5	178.1	163.9	168.6	168.6	150.6
115°	170.5	175.2	175.2	168.6	156.3	153.5	176.2	163.9	165.8	162.9	140.2
117.5°	156.3	159.1	157.2	149.7	139.2	137.3	163.9	158.2	158.2	149.7	130.7
120°	145.9	140.2	132.6	126.9	121.2	126.0	147.8	142.1	137.3	133.6	119.4
122.5°	130.7	124.1	115.6	112.7	108.9	115.6	134.5	129.8	125.0	123.1	112.7
125°	108.0	108.0	104.2	102.3	101.4	110.8	132.6	127.9	121.2	117.5	105.1
127.5°	104.2	104.2	101.4	99.5	100.4	111.8	129.8	125.0	117.5	112.7	101.4
130°	105.1	103.2	99.5	96.6	97.6	110.8	128.8	123.1	115.6	111.8	101.4
132.5°	99.5	97.6	94.7	92.8	91.9	105.1	122.2	119.4	113.7	105.1	93.8
135°	96.6	94.7	92.8	91.9	91.9	102.3	116.5	113.7	108.0	98.5	86.2
137.5°	95.7	93.8	90.0	89.0	88.1	97.6	108.9	107.0	101.4	92.8	82.4
140°	90.9	88.1	85.3	84.3	84.3	91.9	103.2	101.4	95.7	89.0	79.6
142.5°	84.3	82.4	79.6	79.6	80.5	88.1	100.4	99.5	92.8	85.3	76.7
145°	80.5	78.6	76.7	77.7	78.6	85.3	94.7	93.8	89.0	82.4	73.9
147.5°	73.9	72.9	71.0	70.1	72.0	77.7	88.1	88.1	85.3	76.7	68.2
150°	64.4	63.5	61.6	60.6	62.5	68.2	76.7	76.7	73.9	65.4	57.8
152.5°	54.0	53.0	53.0	54.0	55.9	58.7	66.3	67.3	64.4	55.9	49.3
155°	47.4	46.4	46.4	47.4	50.2	53.0	57.8	57.8	54.9	49.3	42.6
157.5°	40.7	39.8	39.8	40.7	43.6	45.5	50.2	49.3	47.4	42.6	36.9
160°	31.3	30.3	30.3	31.3	34.1	36.0	39.8	39.8	38.8	36.0	31.3
162.5°	23.7	22.7	22.7	23.7	25.6	26.5	29.4	30.3	30.3	28.4	24.6
165°	18.0	17.1	17.1	17.1	18.9	19.9	20.8	20.8	20.8	19.9	17.1
167.5°	11.4	10.4	10.4	11.4	12.3	12.3	13.3	13.3	12.3	12.3	10.4
170°	5.7	4.7	4.7	5.7	5.7	5.7	4.7	3.8	3.8	3.8	3.8
172.5°	1.9	0.9	2.8	2.8	1.9	0.0	0.0	0.9	0.9	0.9	0.0
175°	1.9	0.9	2.8	2.8	1.9	0.0	0.0	0.9	0.0	0.9	0.0
177.5°	0.9	0.9	2.8	2.8	1.9	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°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
2.5°	49.3	48.3	44.5	38.8	33.2	27.5	26.5	27.5	28.4	29.4	30.3
5°	58.7	54.9	47.4	38.8	31.3	23.7	19.9	18.0	17.1	18.0	18.9
7.5°	71.0	66.3	56.8	46.4	36.9	29.4	24.6	19.9	17.1	17.1	18.0
10°	79.6	73.9	62.5	51.2	41.7	33.2	27.5	22.7	19.9	18.0	18.0
12.5°	89.0	81.5	66.3	54.0	43.6	36.0	30.3	25.6	22.7	20.8	20.8
15°	99.5	90.9	72.9	56.8	46.4	37.9	33.2	28.4	24.6	22.7	22.7
17.5°	116.5	102.3	76.7	59.7	48.3	39.8	34.1	29.4	25.6	23.7	23.7
20°	124.1	108.0	77.7	62.5	51.2	41.7	35.0	29.4	26.5	24.6	24.6
22.5°	124.1	107.0	79.6	64.4	54.0	43.6	36.0	30.3	26.5	24.6	24.6
25°	156.3	117.5	81.5	69.1	56.8	45.5	37.9	31.3	27.5	25.6	25.6
27.5°	218.8	153.5	93.8	73.9	60.6	48.3	39.8	33.2	28.4	26.5	26.5
30°	240.6	171.4	107.0	86.2	66.3	51.2	41.7	35.0	30.3	27.5	27.5
32.5°	245.3	168.6	114.6	94.7	75.8	55.9	43.6	36.9	31.3	28.4	28.4
35°	221.7	156.3	114.6	98.5	81.5	62.5	48.3	38.8	32.2	29.4	28.4
37.5°	258.6	168.6	117.5	99.5	84.3	67.3	54.0	41.7	34.1	30.3	30.3
40°	334.4	199.9	131.7	105.1	85.3	70.1	59.7	46.4	36.9	32.2	32.2
42.5°	391.2	225.4	146.8	119.4	92.8	73.9	61.6	50.2	40.7	35.0	34.1
45°	439.5	250.1	160.1	132.6	106.1	82.4	65.4	54.0	44.5	38.8	37.9
47.5°	448.0	262.4	170.5	145.9	116.5	90.9	71.0	57.8	49.3	42.6	41.7
50°	432.9	263.3	174.3	154.4	127.9	100.4	77.7	62.5	53.0	46.4	46.4
52.5°	618.5	328.7	191.3	159.1	131.7	108.0	86.2	68.2	56.8	51.2	51.2
55°	1115.8	531.4	247.2	188.5	141.1	113.7	93.8	76.7	62.5	55.9	55.9
57.5°	1803.5	829.8	326.8	252.0	181.9	131.7	102.3	85.3	70.1	60.6	60.6
60°	2389.8	1170.8	397.8	306.9	238.7	180.9	124.1	96.6	78.6	67.3	66.3
62.5°	2751.7	1477.7	439.5	327.7	272.8	229.2	166.7	121.2	89.0	76.7	74.8
65°	2671.2	1631.1	457.5	325.8	270.9	244.4	198.9	150.6	107.0	88.1	85.3
67.5°	2453.3	1632.1	454.7	311.6	256.7	232.1	198.0	162.9	124.1	99.5	95.7
70°	2344.4	1603.7	440.5	301.2	245.3	216.9	183.8	149.7	122.2	106.1	104.2
72.5°	2292.3	1584.7	431.9	299.3	243.4	211.2	174.3	133.6	109.9	101.4	103.2
75°	2304.6	1596.1	435.7	302.2	247.2	214.1	170.5	124.1	96.6	87.1	89.0
77.5°	2277.1	1573.3	441.4	301.2	245.3	209.3	159.1	113.7	88.1	78.6	77.7
80°	2299.9	1524.1	428.1	291.7	231.1	190.4	141.1	101.4	80.5	73.9	72.9
82.5°	2125.6	1327.1	380.8	266.2	209.3	163.9	118.4	89.0	75.8	68.2	68.2
85°	1948.4	1076.0	326.8	234.0	172.4	128.8	94.7	77.7	66.3	60.6	60.6
87.5°	1478.6	771.0	252.9	192.3	144.0	110.8	86.2	74.8	65.4	61.6	60.6
90°	914.1	475.5	188.5	153.5	122.2	98.5	81.5	72.0	64.4	61.6	61.6
92.5°	511.5	304.1	145.9	126.0	105.1	88.1	74.8	65.4	58.7	55.9	55.9
95°	346.7	227.3	125.0	112.7	93.8	77.7	65.4	56.8	51.2	47.4	47.4
97.5°	251.0	179.0	110.8	101.4	84.3	68.2	57.8	49.3	44.5	42.6	42.6
100°	192.3	144.9	100.4	90.9	74.8	59.7	50.2	42.6	37.9	36.0	36.0
102.5°	154.4	122.2	90.9	82.4	66.3	53.0	42.6	35.0	31.3	30.3	29.4
105°	139.2	113.7	85.3	76.7	60.6	48.3	37.9	31.3	27.5	25.6	25.6
107.5°	135.5	113.7	84.3	74.8	57.8	45.5	34.1	28.4	24.6	22.7	22.7
110°	144.0	120.3	85.3	72.9	54.0	41.7	31.3	25.6	21.8	20.8	20.8

Classified

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

Scaled Data Report



REPORT NUMBER: P588628

CATALOG NUMBER: GAT-CA6-LED-90-730-U-33-5-X-X-GHSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	148.7	121.2	81.5	68.2	50.2	37.9	29.4	23.7	20.8	18.9	18.9
115°	136.4	108.9	74.8	60.6	44.5	34.1	27.5	22.7	18.9	17.1	17.1
117.5°	131.7	102.3	72.9	53.0	40.7	31.3	25.6	20.8	18.0	16.1	16.1
120°	131.7	99.5	64.4	46.4	36.9	28.4	23.7	18.9	16.1	15.2	15.2
122.5°	126.9	91.9	56.8	40.7	32.2	24.6	20.8	17.1	15.2	13.3	13.3
125°	115.6	85.3	46.4	36.9	29.4	22.7	18.9	16.1	13.3	12.3	12.3
127.5°	108.9	84.3	43.6	34.1	26.5	20.8	17.1	14.2	11.4	10.4	10.4
130°	108.0	84.3	40.7	30.3	23.7	18.0	15.2	12.3	10.4	9.5	9.5
132.5°	96.6	76.7	38.8	28.4	21.8	17.1	14.2	11.4	9.5	8.5	8.5
135°	87.1	71.0	37.9	26.5	19.9	15.2	12.3	10.4	7.6	7.6	7.6
137.5°	80.5	65.4	37.9	24.6	18.0	13.3	11.4	9.5	6.6	6.6	6.6
140°	75.8	60.6	36.9	23.7	16.1	12.3	10.4	7.6	5.7	5.7	5.7
142.5°	71.0	56.8	34.1	22.7	15.2	10.4	9.5	7.6	5.7	4.7	4.7
145°	65.4	52.1	30.3	20.8	14.2	9.5	8.5	6.6	4.7	3.8	3.8
147.5°	59.7	46.4	26.5	18.0	13.3	8.5	7.6	5.7	3.8	3.8	3.8
150°	51.2	39.8	23.7	16.1	11.4	7.6	6.6	4.7	3.8	2.8	2.8
152.5°	41.7	34.1	20.8	14.2	10.4	6.6	5.7	3.8	2.8	1.9	1.9
155°	36.9	30.3	18.9	12.3	8.5	5.7	4.7	2.8	2.8	1.9	1.9
157.5°	32.2	26.5	17.1	10.4	6.6	3.8	3.8	2.8	1.9	1.9	0.9
160°	26.5	22.7	14.2	8.5	5.7	2.8	2.8	1.9	1.9	0.9	0.9
162.5°	20.8	17.1	10.4	6.6	3.8	1.9	1.9	1.9	1.9	0.9	0.0
165°	14.2	12.3	7.6	4.7	2.8	0.9	0.9	1.9	0.9	0.9	0.0
167.5°	9.5	7.6	4.7	2.8	1.9	0.0	0.9	0.9	0.9	0.9	0.0
170°	3.8	3.8	2.8	1.9	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)