

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: P588423

Luminaire Tested: **GAT-CA6-LED-130-727-U-33-5-6-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588423  
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-130-727-U-33-5-6-X  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR  
Light Source: (6) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10702 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U3 - G4

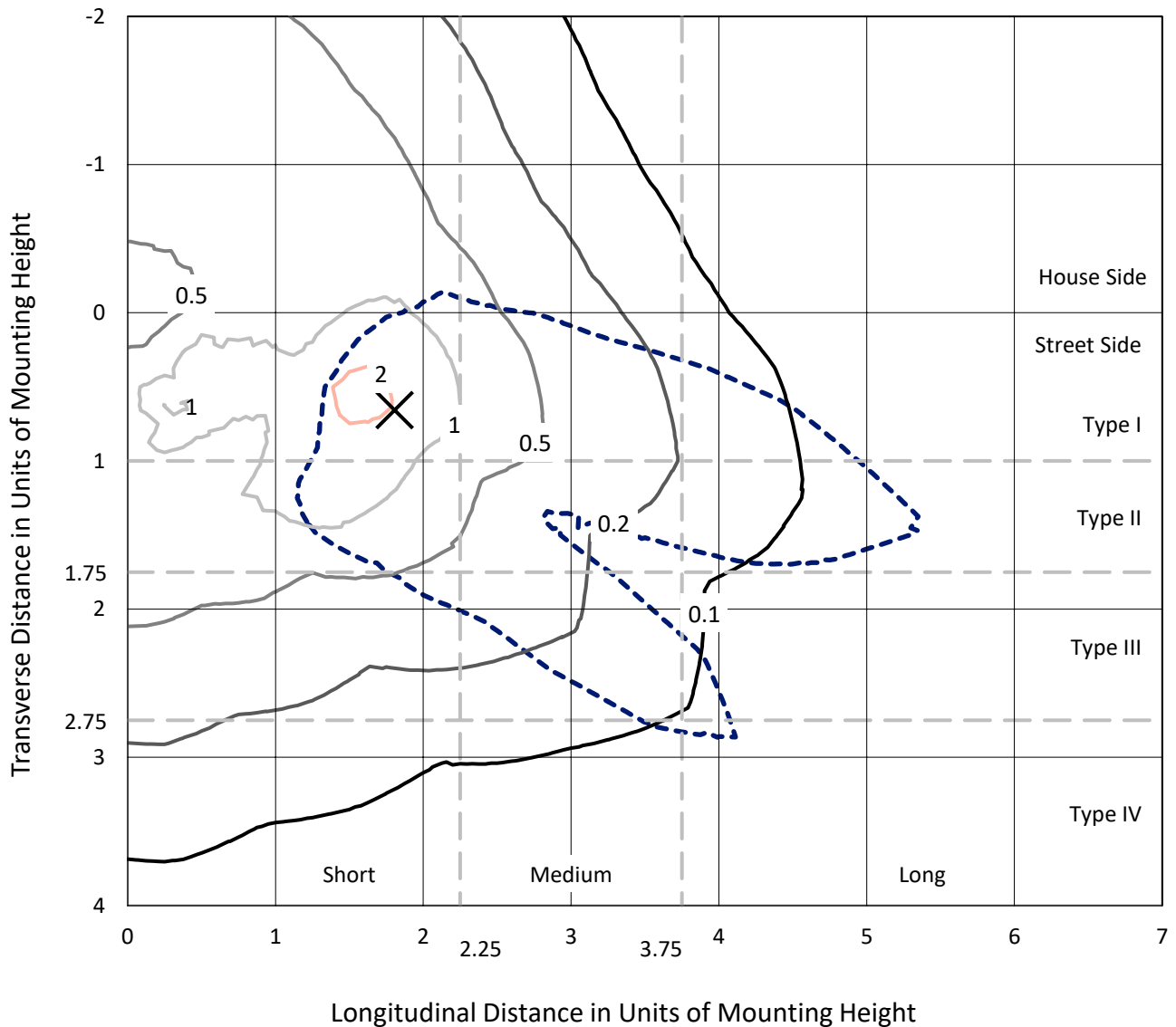
Input Watts (W): 124.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

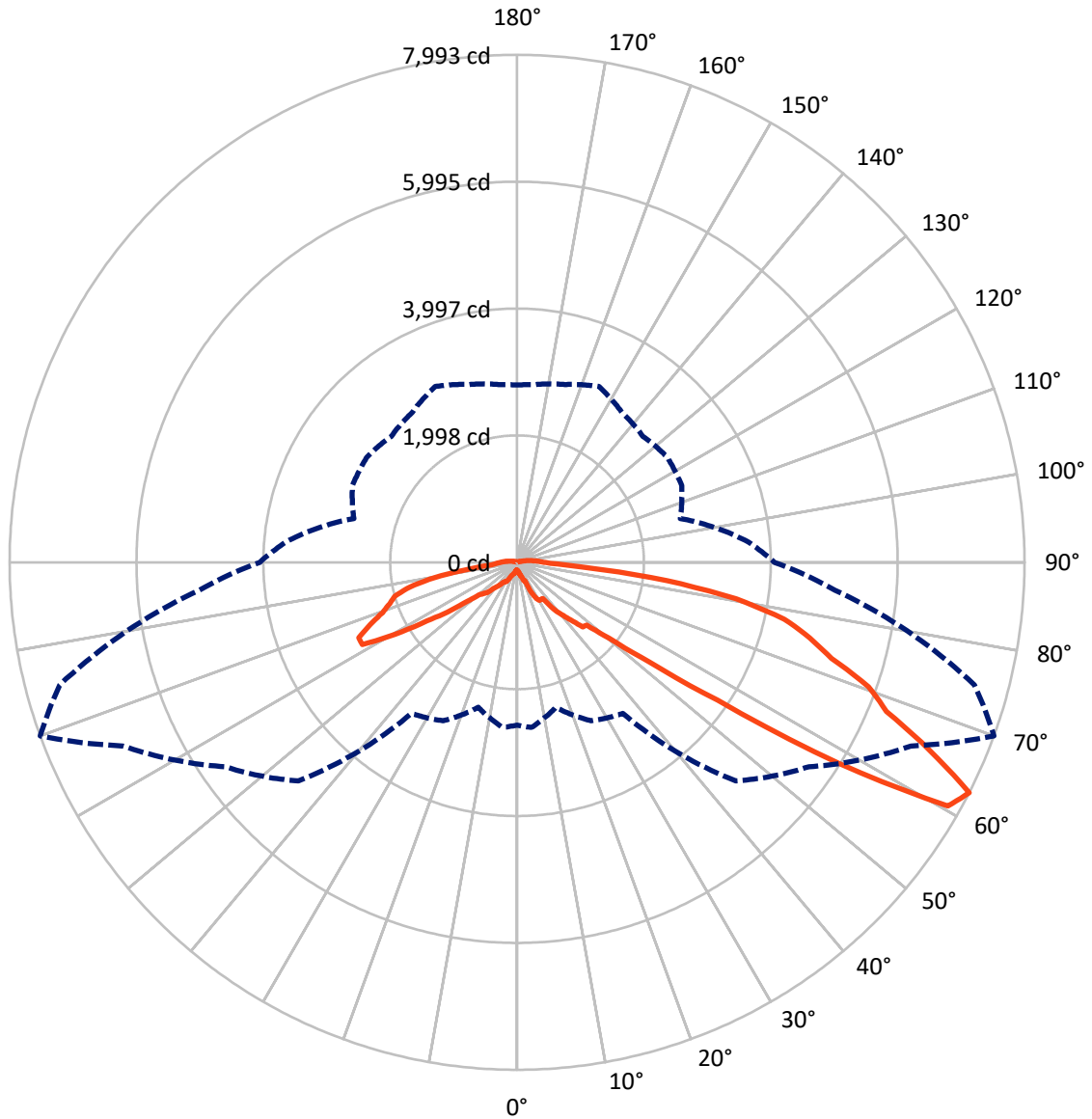
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.3 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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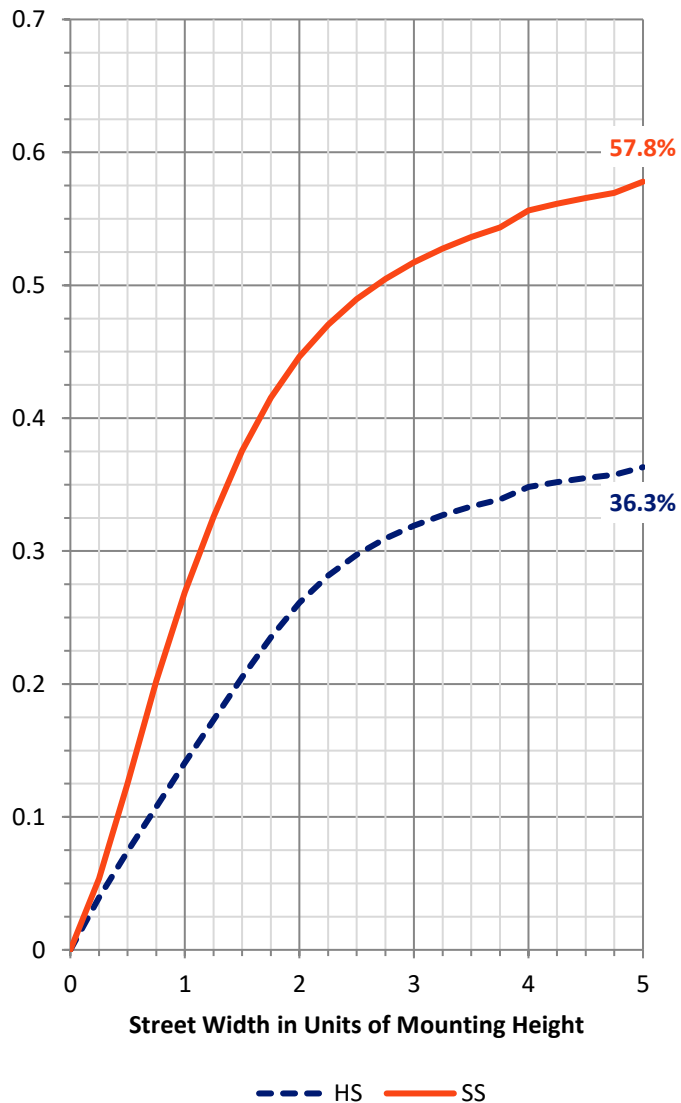
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3966.4	145.4	4111.8
	% Fixture	37.1	1.4	38.4
<b>Street Side</b>	Lumens	6390.4	199.8	6590.2
	% Fixture	59.7	1.9	61.6
<b>Total</b>	Lumens	10356.8	345.2	10702.0
	% Fixture	96.8	3.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.5	0.1
10°-20°	58.2	0.5
20°-30°	180.5	1.7
30°-40°	387.2	3.6
40°-50°	725.4	6.8
50°-60°	1882.4	17.6
60°-70°	3448.2	32.2
70°-80°	2765.8	25.8
80°-90°	895.6	8.4
90°-100°	236.0	2.2
100°-110°	76.8	0.7
110°-120°	30.1	0.3
120°-130°	2.4	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°	10356.8	96.8
0°-180°	10702.0	100.0

**Coefficient of Utilization**



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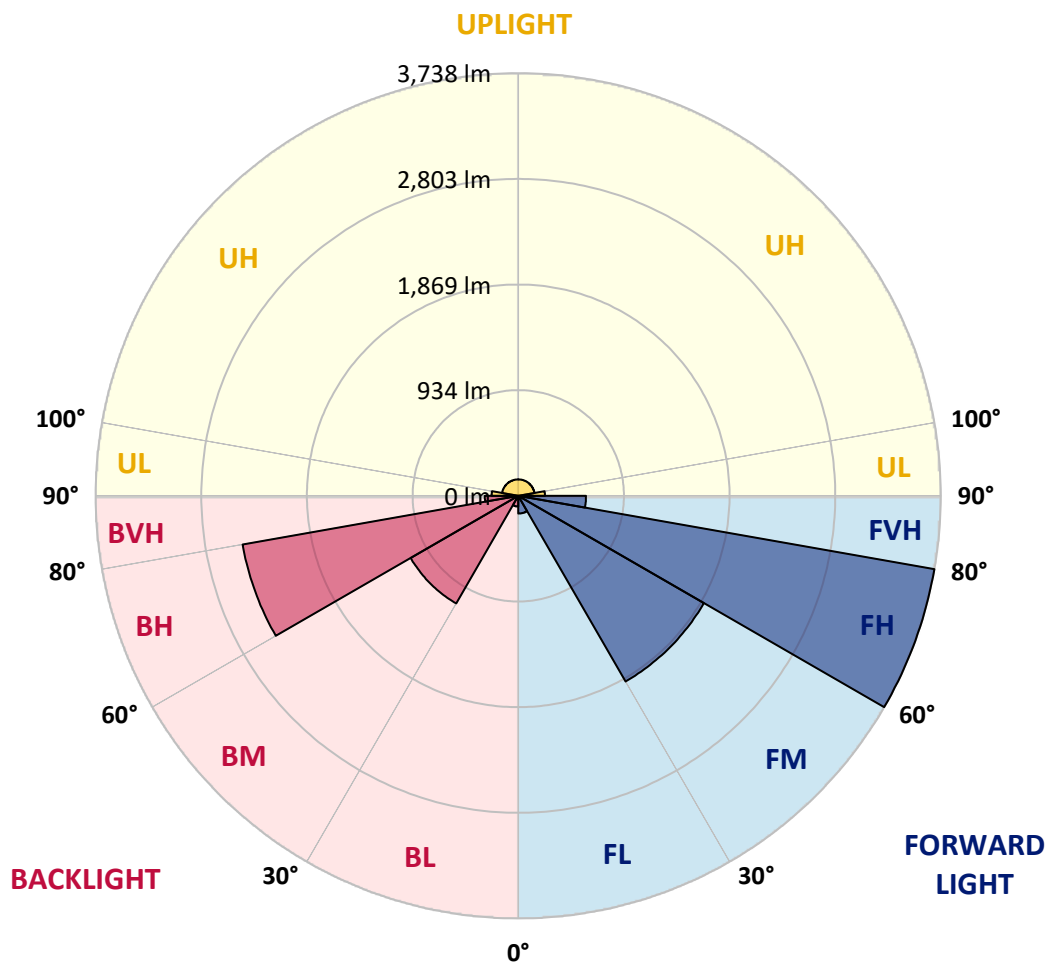
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	157.0	1.5			
FM (30°-60°)	1896.2	17.7			
FH (60°-80°)	3738.0	34.9			G2/5000
FVH (80°-90°)	599.2	5.6			G4/750
BL (0°-30°)	95.3	0.9	B0/110		
BM (30°-60°)	1098.7	10.3	B2/2500		
BH (60°-80°)	2476.0	23.1	B3/2500		G3/2500
BVH (80°-90°)	296.4	2.8			G3/500
UL (90°-100°)	236.0	2.2		U3/500	
UH (100°-180°)	145.4	1.4		U3/500	

**BUG Rating: B3-U3-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	126.8	126.8	126.8	126.8	126.8	126.8	126.8	126.8	126.8	126.8	126.8
2.5°	137.1	137.1	137.1	135.0	133.0	130.9	128.9	128.9	126.8	124.8	122.8
5°	149.3	147.3	145.3	141.2	139.1	139.1	137.1	137.1	137.1	135.0	133.0
7.5°	165.7	165.7	163.7	161.6	159.6	157.5	155.5	153.4	153.4	151.4	149.3
10°	188.2	188.2	188.2	186.2	186.2	184.1	180.0	178.0	173.9	171.9	165.7
12.5°	210.7	212.8	208.7	208.7	208.7	206.6	202.5	200.5	196.4	192.3	184.1
15°	233.2	231.2	229.1	227.1	231.2	231.2	229.1	229.1	221.0	214.8	200.5
17.5°	253.7	253.7	255.7	255.7	261.9	259.8	259.8	257.8	253.7	243.5	225.0
20°	286.4	288.5	288.5	288.5	308.9	317.1	319.2	321.2	315.1	294.6	257.8
22.5°	319.2	321.2	335.5	331.4	331.4	331.4	351.9	341.7	315.1	290.5	270.1
25°	431.7	437.8	441.9	456.2	472.6	517.6	589.2	566.7	525.8	441.9	372.4
27.5°	540.1	548.3	621.9	724.2	738.6	685.4	736.5	669.0	648.5	562.6	505.3
30°	589.2	603.5	730.4	799.9	824.5	754.9	828.6	699.7	693.6	632.2	583.1
32.5°	601.5	611.7	750.8	759.0	765.2	757.0	867.5	709.9	695.6	634.2	562.6
35°	583.1	595.4	689.5	642.4	644.5	789.7	996.3	765.2	699.7	593.3	513.5
37.5°	718.1	718.1	797.9	810.2	863.4	1039.3	1305.3	1010.7	937.0	773.3	675.1
40°	818.4	828.6	955.4	1002.5	1010.7	1160.0	1634.7	1184.6	1080.2	865.4	789.7
42.5°	953.4	951.3	1068.0	1100.7	1123.2	1178.4	1671.5	1362.6	1239.8	980.0	922.7
45°	975.9	1008.6	1115.0	1078.2	1106.8	1248.0	1745.1	1614.2	1450.5	1196.8	1078.2
47.5°	885.9	930.9	1145.7	1115.0	1000.4	1065.9	1399.4	1657.2	1477.1	1229.6	1145.7
50°	955.4	980.0	1086.4	1065.9	912.5	1133.4	1536.5	2076.6	1876.1	1462.8	1248.0
52.5°	1235.7	1288.9	1307.3	1387.1	1313.5	1696.0	2150.2	2631.0	2604.4	2117.5	1646.9
55°	1587.6	1665.3	1747.2	2050.0	2092.9	2663.7	3001.3	3514.8	3834.0	3349.1	2526.7
57.5°	1968.1	2078.6	2052.0	2491.9	2559.4	3608.9	3919.9	5122.9	5976.0	5317.2	3701.0
60°	2336.4	2410.0	2260.7	2647.4	2776.3	4543.9	5000.1	6671.6	7794.8	7093.1	4558.2
62.5°	2563.5	2610.5	2365.0	2753.8	2905.2	4869.2	5611.9	6845.5	7993.3	7459.3	5022.6
65°	2561.4	2549.2	2268.9	2606.5	2586.0	4494.8	5423.6	5753.0	7140.1	7050.1	5082.0
67.5°	2461.2	2465.3	2170.7	2438.7	2354.8	3962.9	5024.7	4867.2	6276.8	6397.5	4942.9
70°	2365.0	2414.1	2133.9	2367.1	2328.2	3811.5	4850.8	4380.2	5871.7	6100.8	4795.5
72.5°	2230.0	2277.1	2013.1	2217.7	2232.1	3508.7	4554.1	3823.8	5178.1	5454.3	4298.4
75°	2228.0	2287.3	2039.7	2219.8	2242.3	3336.8	4591.0	3631.4	4762.8	5133.1	4012.0
77.5°	2101.1	2154.3	1925.2	2092.9	2156.4	3019.7	4380.2	3392.1	4302.5	4717.8	3637.6
80°	1687.9	1759.5	1571.2	1681.7	1716.5	2264.8	3512.8	2778.3	3500.5	3915.8	2972.7
82.5°	1153.9	1219.3	1094.5	1176.4	1221.4	1485.3	2428.5	2000.9	2379.4	2633.1	1861.8
85°	667.0	744.7	671.0	660.8	683.3	783.6	1307.3	1063.9	1106.8	1164.1	826.5
87.5°	419.4	431.7	394.9	396.9	401.0	429.6	595.4	474.6	523.7	593.3	501.2
90°	333.5	345.8	319.2	321.2	315.1	341.7	446.0	362.1	403.0	464.4	396.9
92.5°	288.5	296.7	278.2	282.3	278.2	298.7	372.4	298.7	331.4	380.5	325.3
95°	245.5	251.6	241.4	243.5	231.2	243.5	290.5	227.1	251.6	286.4	243.5
97.5°	196.4	202.5	196.4	196.4	184.1	190.3	223.0	175.9	192.3	214.8	184.1
100°	155.5	157.5	155.5	153.4	143.2	143.2	155.5	126.8	133.0	147.3	126.8
102.5°	118.7	120.7	118.7	116.6	104.3	98.2	98.2	81.8	85.9	90.0	79.8
105°	94.1	96.2	94.1	90.0	79.8	73.7	71.6	59.3	59.3	61.4	55.2
107.5°	77.7	77.7	77.7	73.7	67.5	59.3	53.2	43.0	43.0	45.0	43.0
110°	63.4	63.4	61.4	59.3	53.2	47.1	40.9	34.8	34.8	34.8	32.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	53.2	53.2	51.1	49.1	43.0	36.8	32.7	28.6	28.6	28.6	26.6
115°	45.0	45.0	43.0	40.9	36.8	30.7	26.6	22.5	22.5	22.5	22.5
117.5°	38.9	38.9	36.8	34.8	30.7	26.6	22.5	18.4	18.4	18.4	18.4
120°	34.8	32.7	30.7	28.6	24.6	22.5	18.4	16.4	16.4	16.4	14.3
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°	126.8	126.8	126.8	126.8	126.8	126.8	126.8	126.8	126.8	126.8	126.8
2.5°	122.8	122.8	120.7	120.7	120.7	118.7	118.7	120.7	120.7	120.7	120.7
5°	130.9	128.9	124.8	120.7	118.7	116.6	114.6	114.6	118.7	118.7	118.7
7.5°	147.3	145.3	139.1	135.0	130.9	126.8	124.8	122.8	124.8	126.8	126.8
10°	163.7	161.6	153.4	147.3	145.3	141.2	139.1	137.1	139.1	139.1	139.1
12.5°	180.0	175.9	169.8	161.6	157.5	155.5	153.4	151.4	151.4	151.4	151.4
15°	194.4	188.2	182.1	175.9	171.9	167.8	165.7	163.7	165.7	167.8	167.8
17.5°	216.9	210.7	196.4	186.2	184.1	180.0	178.0	178.0	180.0	182.1	182.1
20°	241.4	229.1	212.8	202.5	200.5	194.4	192.3	192.3	194.4	196.4	196.4
22.5°	261.9	253.7	229.1	214.8	212.8	210.7	212.8	212.8	214.8	216.9	216.9
25°	333.5	300.7	266.0	255.7	253.7	249.6	245.5	243.5	245.5	251.6	253.7
27.5°	450.1	390.8	325.3	302.8	302.8	306.9	315.1	319.2	311.0	306.9	308.9
30°	527.8	448.0	353.9	333.5	337.6	358.0	376.4	388.7	380.5	374.4	376.4
32.5°	507.4	433.7	366.2	362.1	374.4	390.8	401.0	407.1	423.5	429.6	437.8
35°	462.4	407.1	370.3	386.7	394.9	394.9	394.9	394.9	425.5	454.2	462.4
37.5°	564.7	470.6	439.9	446.0	439.9	433.7	439.9	456.2	482.8	505.3	511.5
40°	662.9	544.2	493.1	489.0	486.9	507.4	544.2	572.8	581.0	560.6	564.7
42.5°	771.3	615.8	550.3	556.5	572.8	605.6	646.5	646.5	646.5	628.1	634.2
45°	873.6	699.7	660.8	677.2	677.2	693.6	716.1	701.7	720.2	728.3	738.6
47.5°	994.3	812.2	726.3	712.0	714.0	746.7	754.9	748.8	761.1	746.7	746.7
50°	1031.1	830.6	763.1	818.4	818.4	781.5	750.8	754.9	789.7	828.6	836.8
52.5°	1311.4	1029.1	967.7	1025.0	1049.5	986.1	986.1	994.3	1002.5	1031.1	1039.3
55°	1962.0	1466.9	1282.8	1415.8	1434.2	1473.0	1579.4	1563.1	1468.9	1421.9	1417.8
57.5°	2933.8	2176.8	1597.8	1786.1	1904.7	2064.3	2144.1	2097.0	1970.2	1927.2	1880.2
60°	3750.1	2980.9	2070.4	2397.8	2575.8	2602.4	2573.7	2577.8	2481.7	2512.3	2500.1
62.5°	4052.9	3658.0	2661.7	2860.1	2886.7	2804.9	2880.6	3054.5	2899.0	2807.0	2792.6
65°	4142.9	3909.7	2827.4	2698.5	2674.0	2659.6	2958.3	3248.9	2901.1	2686.2	2684.2
67.5°	4052.9	3651.9	2616.7	2403.9	2461.2	2577.8	2966.5	3075.0	2747.6	2510.3	2493.9
70°	3936.3	3236.6	2354.8	2170.7	2303.7	2473.5	2721.0	2678.1	2549.2	2338.4	2328.2
72.5°	3512.8	2804.9	2187.0	2033.6	2185.0	2234.1	2356.9	2338.4	2375.3	2242.3	2236.1
75°	3144.5	2575.8	2086.8	1906.8	1980.4	1972.2	2070.4	2092.9	2197.3	2140.0	2117.5
77.5°	2712.8	2240.2	1839.2	1630.6	1659.2	1657.2	1704.2	1718.5	1792.2	1796.3	1771.7
80°	2123.6	1755.4	1436.2	1227.5	1231.6	1194.8	1200.9	1198.9	1213.2	1229.6	1207.1
82.5°	1219.3	980.0	814.3	681.3	652.6	603.5	593.3	597.4	591.3	587.2	587.2
85°	597.4	464.4	427.6	382.6	366.2	353.9	360.1	372.4	378.5	366.2	360.1
87.5°	403.0	347.8	331.4	313.0	304.8	292.6	300.7	311.0	319.2	308.9	306.9
90°	319.2	276.2	272.1	268.0	261.9	251.6	259.8	272.1	278.2	270.1	266.0
92.5°	257.8	223.0	223.0	221.0	214.8	206.6	216.9	227.1	233.2	227.1	225.0
95°	198.5	171.9	178.0	173.9	167.8	165.7	171.9	180.0	184.1	180.0	180.0
97.5°	153.4	135.0	141.2	139.1	130.9	128.9	133.0	139.1	143.2	139.1	137.1
100°	104.3	96.2	104.3	104.3	96.2	92.1	96.2	102.3	104.3	104.3	102.3
102.5°	69.6	65.5	75.7	77.7	73.7	69.6	71.6	75.7	77.7	77.7	77.7
105°	49.1	49.1	59.3	61.4	57.3	53.2	57.3	59.3	59.3	59.3	59.3
107.5°	38.9	40.9	47.1	51.1	47.1	43.0	45.0	47.1	47.1	47.1	49.1
110°	32.7	32.7	38.9	43.0	38.9	36.8	36.8	36.8	36.8	38.9	43.0



REPORT NUMBER: P588423  
 CATALOG NUMBER: GAT-CA6-LED-130-727-U-33-5-6-X

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	26.6	28.6	32.7	34.8	32.7	30.7	30.7	30.7	30.7	32.7	38.9
115°	22.5	24.6	28.6	28.6	26.6	26.6	26.6	24.6	24.6	26.6	36.8
117.5°	18.4	20.5	22.5	22.5	22.5	20.5	20.5	20.5	20.5	24.6	38.9
120°	16.4	16.4	18.4	18.4	16.4	16.4	16.4	16.4	14.3	20.5	30.7
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)