

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: P588351

Luminaire Tested: **GAT-CA6-LED-100-727-U-33-5-6-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588351  
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-100-727-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: 8926 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 - G3

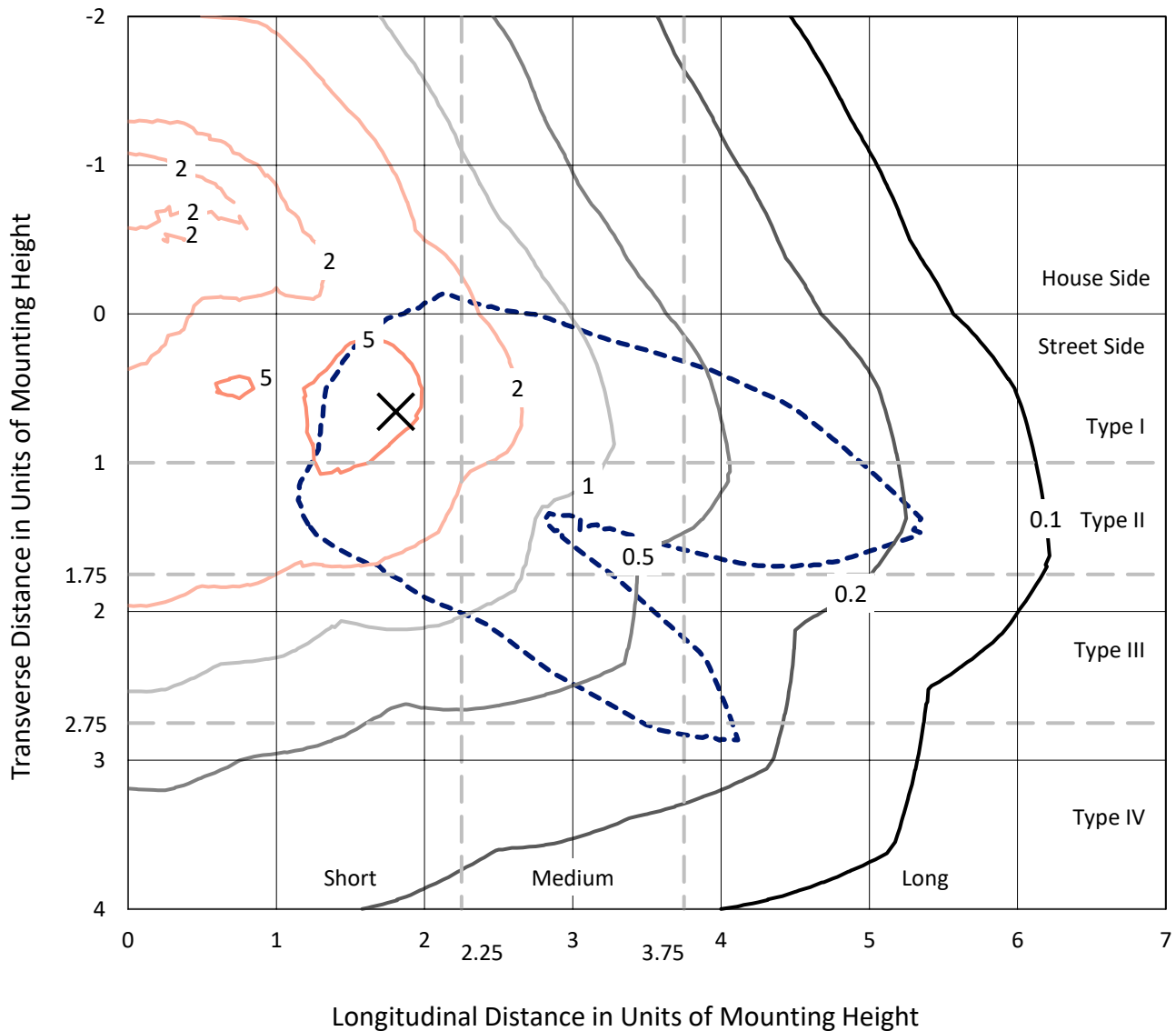
Input Watts (W): 103.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P588351  
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### Iso-Footcandle Lines of Horizontal Illumination

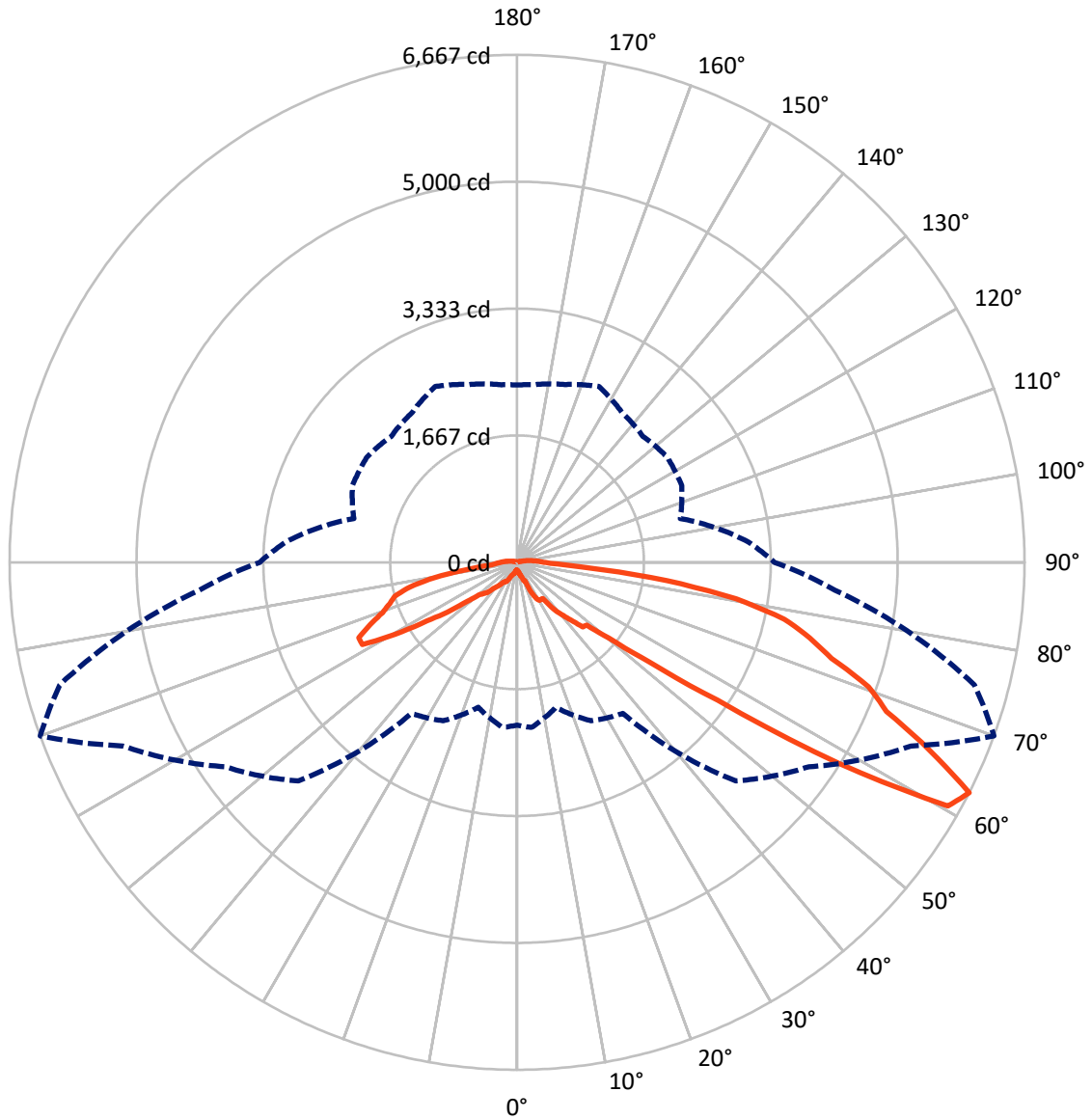
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Short - Non-Cutoff

REPORT NUMBER: P588351  
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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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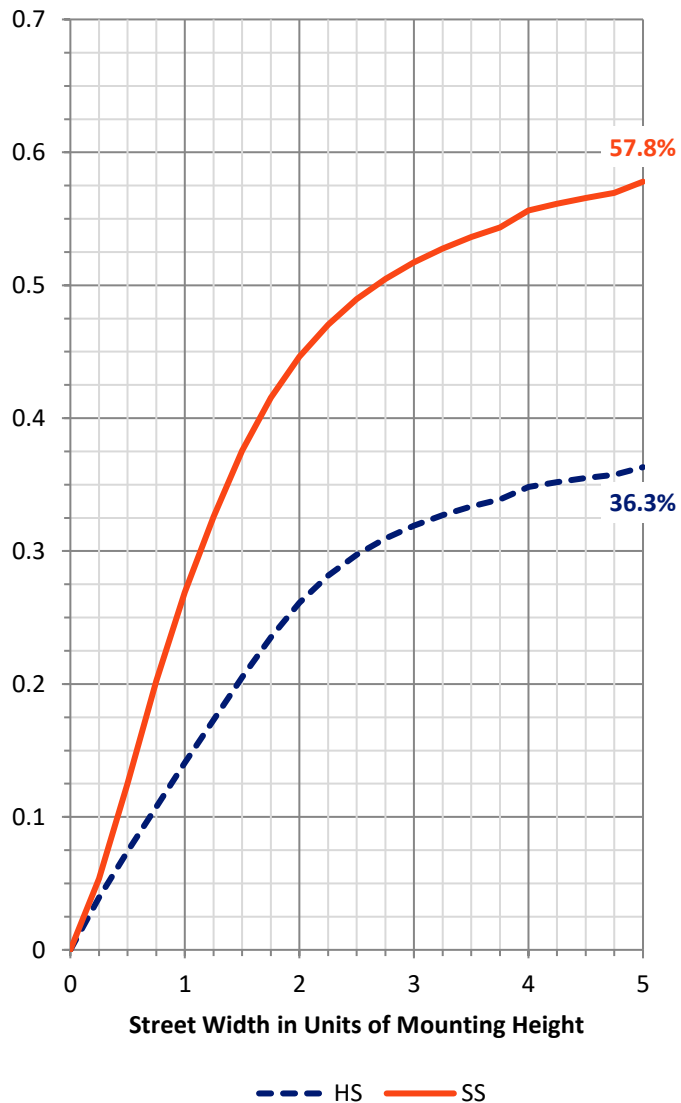
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3308.2	121.3	3429.4
	% Fixture	37.1	1.4	38.4
<b>Street Side</b>	Lumens	5329.9	166.7	5496.6
	% Fixture	59.7	1.9	61.6
<b>Total</b>	Lumens	8638.1	287.9	8926.0
	% Fixture	96.8	3.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.3	0.1
10°-20°	48.6	0.5
20°-30°	150.6	1.7
30°-40°	322.9	3.6
40°-50°	605.0	6.8
50°-60°	1570.0	17.6
60°-70°	2875.9	32.2
70°-80°	2306.8	25.8
80°-90°	747.0	8.4
90°-100°	196.8	2.2
100°-110°	64.0	0.7
110°-120°	25.1	0.3
120°-130°	2.0	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°	8638.1	96.8
0°-180°	8926.0	100.0

**Coefficient of Utilization**



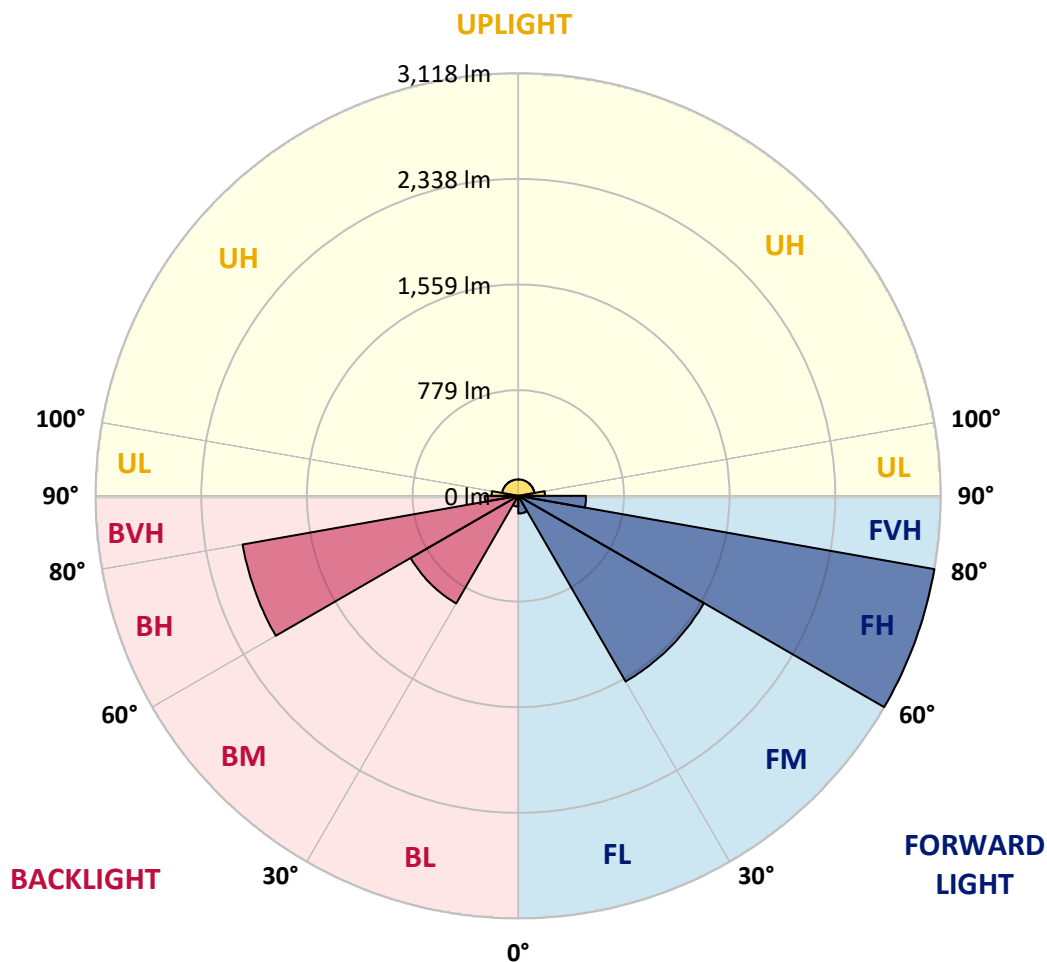
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 CATALOG NUMBER: GAT-CA6-LED-100-727-U-33-5-6-X

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	131.0	1.5			
FM (30°-60°)	1581.6	17.7			
FH (60°-80°)	3117.6	34.9			G2/5000
FVH (80°-90°)	499.7	5.6			G3/500
BL (0°-30°)	79.5	0.9	B0/110		
BM (30°-60°)	916.4	10.3	B1/1000		
BH (60°-80°)	2065.1	23.1	B3/2500		G3/2500
BVH (80°-90°)	247.2	2.8			G3/500
UL (90°-100°)	196.8	2.2		U3/500	
UH (100°-180°)	121.3	1.4		U3/500	

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

Type III Short





REPORT NUMBER: P588351  
 CATALOG NUMBER: GAT-CA6-LED-100-727-U-33-5-6-X

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8
2.5°	114.3	114.3	114.3	112.6	110.9	109.2	107.5	107.5	105.8	104.1	102.4
5°	124.6	122.9	121.2	117.7	116.0	116.0	114.3	114.3	114.3	112.6	110.9
7.5°	138.2	138.2	136.5	134.8	133.1	131.4	129.7	128.0	128.0	126.3	124.6
10°	157.0	157.0	157.0	155.3	155.3	153.6	150.2	148.5	145.0	143.3	138.2
12.5°	175.8	177.5	174.0	174.0	174.0	172.3	168.9	167.2	163.8	160.4	153.6
15°	194.5	192.8	191.1	189.4	192.8	192.8	191.1	191.1	184.3	179.2	167.2
17.5°	211.6	211.6	213.3	213.3	218.4	216.7	216.7	215.0	211.6	203.1	187.7
20°	238.9	240.6	240.6	240.6	257.7	264.5	266.2	267.9	262.8	245.7	215.0
22.5°	266.2	267.9	279.8	276.4	276.4	276.4	293.5	285.0	262.8	242.3	225.2
25°	360.0	365.2	368.6	380.5	394.2	431.7	491.4	472.7	438.5	368.6	310.6
27.5°	450.5	457.3	518.7	604.1	616.0	571.6	614.3	558.0	540.9	469.3	421.5
30°	491.4	503.4	609.2	667.2	687.7	629.6	691.1	583.6	578.5	527.3	486.3
32.5°	501.7	510.2	626.2	633.1	638.2	631.4	723.5	592.1	580.2	529.0	469.3
35°	486.3	496.6	575.0	535.8	537.5	658.7	831.0	638.2	583.6	494.8	428.3
37.5°	598.9	598.9	665.5	675.7	720.1	866.8	1088.7	842.9	781.5	645.0	563.1
40°	682.5	691.1	796.9	836.1	842.9	967.5	1363.4	988.0	901.0	721.8	658.7
42.5°	795.2	793.5	890.7	918.0	936.8	982.9	1394.1	1136.4	1034.1	817.4	769.6
45°	813.9	841.2	930.0	899.3	923.1	1040.9	1455.5	1346.3	1209.8	998.2	899.3
47.5°	738.9	776.4	955.6	930.0	834.4	889.0	1167.2	1382.2	1232.0	1025.5	955.6
50°	796.9	817.4	906.1	889.0	761.0	945.3	1281.5	1732.0	1564.7	1220.1	1040.9
52.5°	1030.6	1075.0	1090.4	1156.9	1095.5	1414.6	1793.4	2194.4	2172.2	1766.1	1373.6
55°	1324.1	1389.0	1457.2	1709.8	1745.6	2221.7	2503.2	2931.5	3197.7	2793.3	2107.4
57.5°	1641.5	1733.7	1711.5	2078.4	2134.7	3010.0	3269.4	4272.7	4984.3	4434.8	3086.8
60°	1948.7	2010.1	1885.5	2208.0	2315.5	3789.8	4170.4	5564.5	6501.3	5916.0	3801.8
62.5°	2138.1	2177.3	1972.6	2296.8	2423.0	4061.2	4680.6	5709.5	6666.8	6221.4	4189.1
65°	2136.4	2126.1	1892.4	2173.9	2156.8	3748.9	4523.6	4798.3	5955.2	5880.1	4238.6
67.5°	2052.8	2056.2	1810.5	2034.0	1964.0	3305.2	4190.8	4059.4	5235.1	5335.8	4122.6
70°	1972.6	2013.5	1779.7	1974.3	1941.8	3179.0	4045.8	3653.3	4897.3	5088.4	3999.7
72.5°	1859.9	1899.2	1679.1	1849.7	1861.6	2926.4	3798.4	3189.2	4318.8	4549.2	3585.1
75°	1858.2	1907.7	1701.2	1851.4	1870.2	2783.1	3829.1	3028.8	3972.4	4281.3	3346.2
77.5°	1752.4	1796.8	1605.7	1745.6	1798.5	2518.6	3653.3	2829.2	3588.5	3934.9	3033.9
80°	1407.8	1467.5	1310.5	1402.6	1431.6	1888.9	2929.8	2317.2	2919.6	3266.0	2479.4
82.5°	962.4	1017.0	912.9	981.2	1018.7	1238.8	2025.5	1668.8	1984.5	2196.1	1552.8
85°	556.3	621.1	559.7	551.2	569.9	653.5	1090.4	887.3	923.1	970.9	689.4
87.5°	349.8	360.0	329.3	331.0	334.4	358.3	496.6	395.9	436.8	494.8	418.1
90°	278.1	288.4	266.2	267.9	262.8	285.0	372.0	302.0	336.2	387.3	331.0
92.5°	240.6	247.4	232.1	235.5	232.1	249.1	310.6	249.1	276.4	317.4	271.3
95°	204.8	209.9	201.4	203.1	192.8	203.1	242.3	189.4	209.9	238.9	203.1
97.5°	163.8	168.9	163.8	163.8	153.6	158.7	186.0	146.7	160.4	179.2	153.6
100°	129.7	131.4	129.7	128.0	119.4	119.4	129.7	105.8	110.9	122.9	105.8
102.5°	99.0	100.7	99.0	97.3	87.0	81.9	81.9	68.3	71.7	75.1	66.5
105°	78.5	80.2	78.5	75.1	66.5	61.4	59.7	49.5	49.5	51.2	46.1
107.5°	64.8	64.8	64.8	61.4	56.3	49.5	44.4	35.8	35.8	37.5	35.8
110°	52.9	52.9	51.2	49.5	44.4	39.2	34.1	29.0	29.0	29.0	27.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	44.4	44.4	42.7	41.0	35.8	30.7	27.3	23.9	23.9	23.9	22.2
115°	37.5	37.5	35.8	34.1	30.7	25.6	22.2	18.8	18.8	18.8	18.8
117.5°	32.4	32.4	30.7	29.0	25.6	22.2	18.8	15.4	15.4	15.4	15.4
120°	29.0	27.3	25.6	23.9	20.5	18.8	15.4	13.7	13.7	13.7	11.9
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°	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8
2.5°	102.4	102.4	100.7	100.7	100.7	99.0	99.0	100.7	100.7	100.7	100.7
5°	109.2	107.5	104.1	100.7	99.0	97.3	95.6	95.6	99.0	99.0	99.0
7.5°	122.9	121.2	116.0	112.6	109.2	105.8	104.1	102.4	104.1	105.8	105.8
10°	136.5	134.8	128.0	122.9	121.2	117.7	116.0	114.3	116.0	116.0	116.0
12.5°	150.2	146.7	141.6	134.8	131.4	129.7	128.0	126.3	126.3	126.3	126.3
15°	162.1	157.0	151.9	146.7	143.3	139.9	138.2	136.5	138.2	139.9	139.9
17.5°	180.9	175.8	163.8	155.3	153.6	150.2	148.5	148.5	150.2	151.9	151.9
20°	201.4	191.1	177.5	168.9	167.2	162.1	160.4	160.4	162.1	163.8	163.8
22.5°	218.4	211.6	191.1	179.2	177.5	175.8	177.5	177.5	179.2	180.9	180.9
25°	278.1	250.8	221.8	213.3	211.6	208.2	204.8	203.1	204.8	209.9	211.6
27.5°	375.4	325.9	271.3	252.5	252.5	256.0	262.8	266.2	259.4	256.0	257.7
30°	440.2	373.7	295.2	278.1	281.6	298.6	314.0	324.2	317.4	312.3	314.0
32.5°	423.2	361.7	305.4	302.0	312.3	325.9	334.4	339.6	353.2	358.3	365.2
35°	385.6	339.6	308.9	322.5	329.3	329.3	329.3	329.3	354.9	378.8	385.6
37.5°	471.0	392.5	366.9	372.0	366.9	361.7	366.9	380.5	402.7	421.5	426.6
40°	552.9	453.9	411.2	407.8	406.1	423.2	453.9	477.8	484.6	467.5	471.0
42.5°	643.3	513.6	459.0	464.1	477.8	505.1	539.2	539.2	539.2	523.9	529.0
45°	728.6	583.6	551.2	564.8	564.8	578.5	597.2	585.3	600.6	607.5	616.0
47.5°	829.3	677.4	605.8	593.8	595.5	622.8	629.6	624.5	634.8	622.8	622.8
50°	860.0	692.8	636.5	682.5	682.5	651.8	626.2	629.6	658.7	691.1	697.9
52.5°	1093.8	858.3	807.1	854.9	875.4	822.5	822.5	829.3	836.1	860.0	866.8
55°	1636.4	1223.5	1069.9	1180.8	1196.2	1228.6	1317.3	1303.7	1225.2	1185.9	1182.5
57.5°	2446.9	1815.6	1332.7	1489.7	1588.6	1721.7	1788.3	1749.0	1643.2	1607.4	1568.2
60°	3127.8	2486.2	1726.8	1999.9	2148.3	2170.5	2146.6	2150.0	2069.8	2095.4	2085.2
62.5°	3380.3	3051.0	2220.0	2385.5	2407.7	2339.4	2402.6	2547.6	2417.9	2341.1	2329.2
65°	3455.4	3260.9	2358.2	2250.7	2230.2	2218.3	2467.4	2709.7	2419.6	2240.5	2238.8
67.5°	3380.3	3045.9	2182.4	2005.0	2052.8	2150.0	2474.2	2564.7	2291.7	2093.7	2080.1
70°	3283.1	2699.5	1964.0	1810.5	1921.4	2063.0	2269.5	2233.6	2126.1	1950.4	1941.8
72.5°	2929.8	2339.4	1824.1	1696.1	1822.4	1863.4	1965.7	1950.4	1981.1	1870.2	1865.1
75°	2622.7	2148.3	1740.5	1590.3	1651.8	1644.9	1726.8	1745.6	1832.6	1784.9	1766.1
77.5°	2262.6	1868.5	1534.0	1360.0	1383.9	1382.2	1421.4	1433.3	1494.8	1498.2	1477.7
80°	1771.2	1464.1	1197.9	1023.8	1027.2	996.5	1001.6	999.9	1011.9	1025.5	1006.8
82.5°	1017.0	817.4	679.1	568.2	544.3	503.4	494.8	498.3	493.1	489.7	489.7
85°	498.3	387.3	356.6	319.1	305.4	295.2	300.3	310.6	315.7	305.4	300.3
87.5°	336.2	290.1	276.4	261.1	254.2	244.0	250.8	259.4	266.2	257.7	256.0
90°	266.2	230.4	226.9	223.5	218.4	209.9	216.7	226.9	232.1	225.2	221.8
92.5°	215.0	186.0	186.0	184.3	179.2	172.3	180.9	189.4	194.5	189.4	187.7
95°	165.5	143.3	148.5	145.0	139.9	138.2	143.3	150.2	153.6	150.2	150.2
97.5°	128.0	112.6	117.7	116.0	109.2	107.5	110.9	116.0	119.4	116.0	114.3
100°	87.0	80.2	87.0	87.0	80.2	76.8	80.2	85.3	87.0	87.0	85.3
102.5°	58.0	54.6	63.1	64.8	61.4	58.0	59.7	63.1	64.8	64.8	64.8
105°	41.0	41.0	49.5	51.2	47.8	44.4	47.8	49.5	49.5	49.5	49.5
107.5°	32.4	34.1	39.2	42.7	39.2	35.8	37.5	39.2	39.2	39.2	41.0
110°	27.3	27.3	32.4	35.8	32.4	30.7	30.7	30.7	30.7	32.4	35.8



REPORT NUMBER: P588351  
 CATALOG NUMBER: GAT-CA6-LED-100-727-U-33-5-6-X

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	22.2	23.9	27.3	29.0	27.3	25.6	25.6	25.6	25.6	27.3	32.4
115°	18.8	20.5	23.9	23.9	22.2	22.2	22.2	20.5	20.5	22.2	30.7
117.5°	15.4	17.1	18.8	18.8	18.8	17.1	17.1	17.1	17.1	20.5	32.4
120°	13.7	13.7	15.4	15.4	13.7	13.7	13.7	13.7	11.9	17.1	25.6
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)