

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: P588443

Luminaire Tested: **GAT-CA6-LED-50-722-U-33-5-6-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588443  
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-50-722-U-33-5-6-X  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR  
Light Source: (6) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4410 lumens  
Efficiency: N/A  
Efficacy: 81.7 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

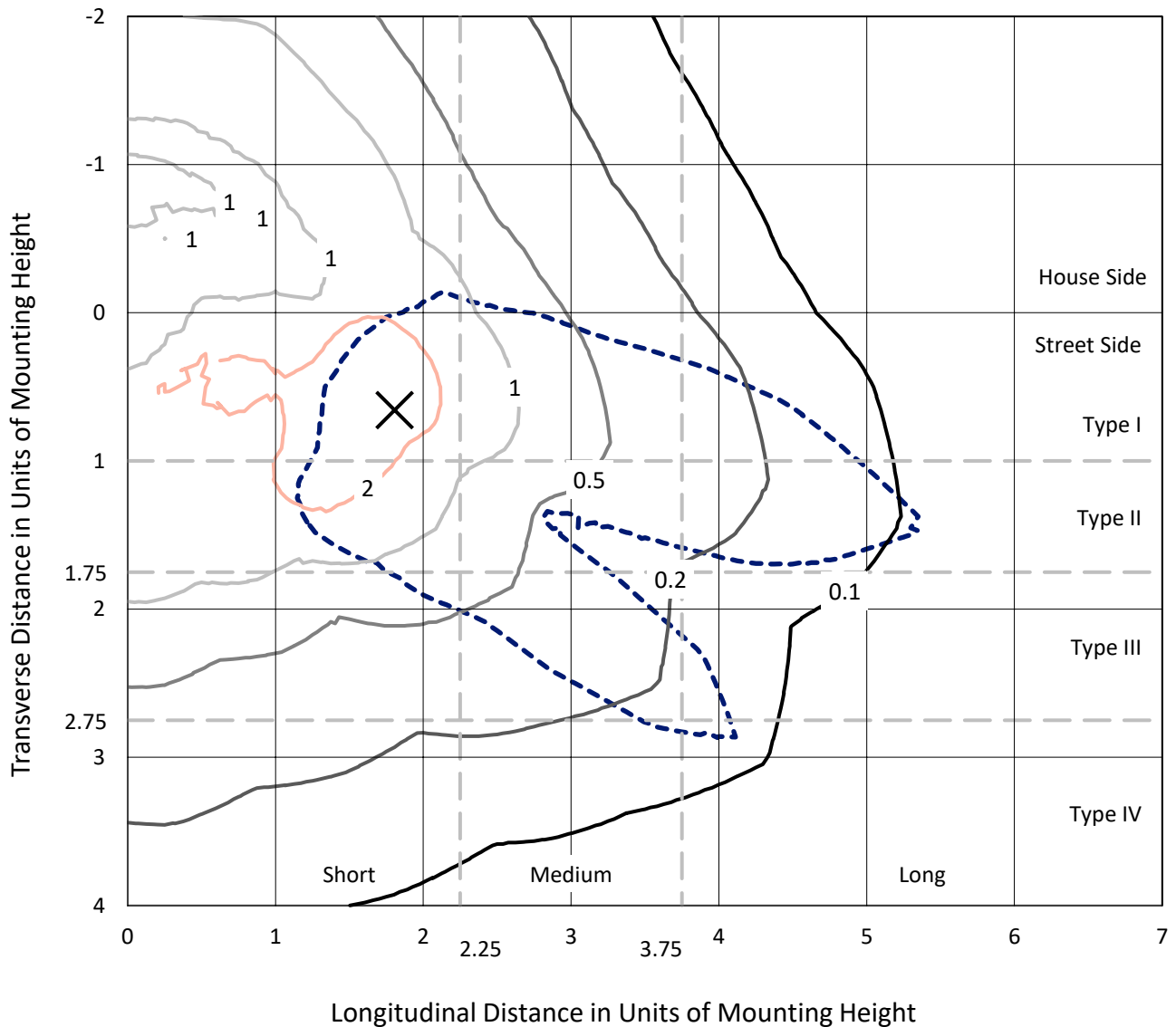
Input Watts (W): 54  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

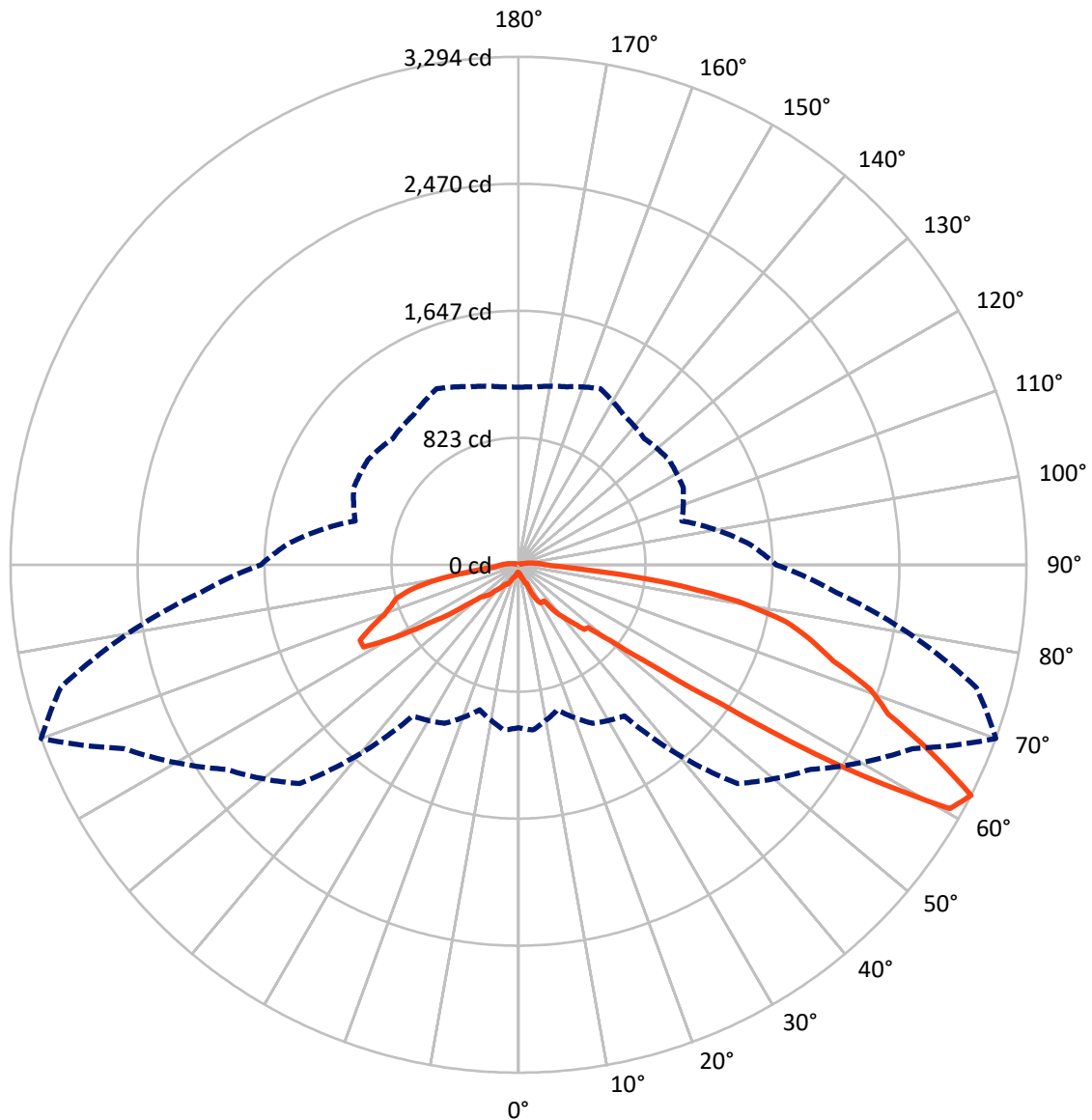
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.9 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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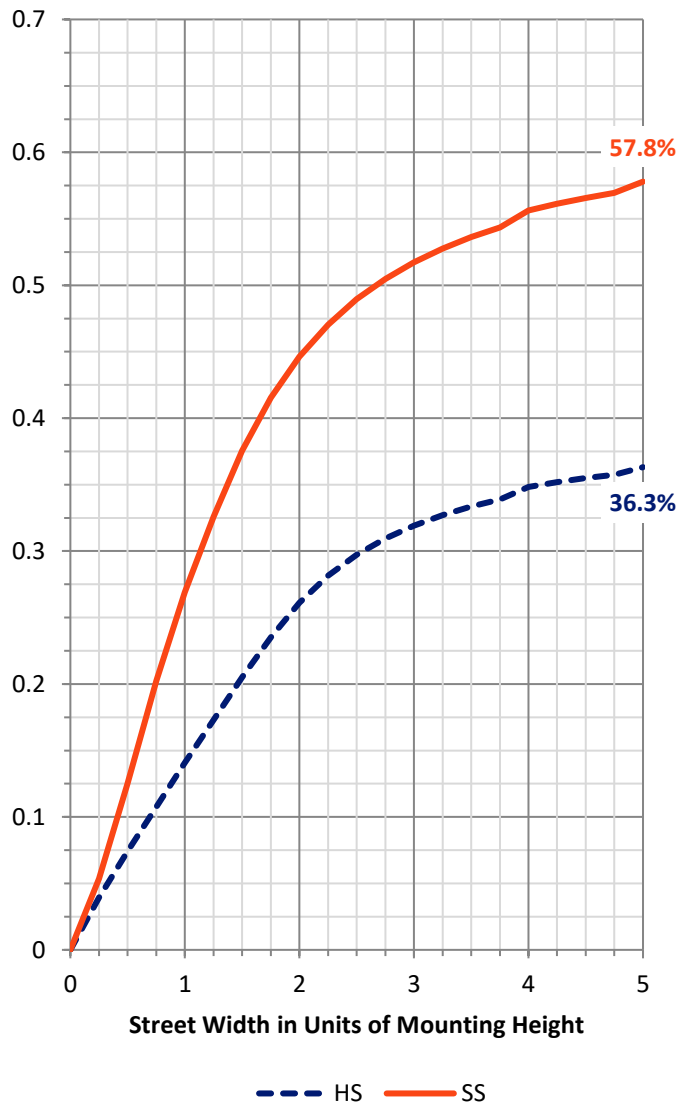
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1634.5	59.9	1694.4
	% Fixture	37.1	1.4	38.4
<b>Street Side</b>	Lumens	2633.3	82.3	2715.6
	% Fixture	59.7	1.9	61.6
<b>Total</b>	Lumens	4267.8	142.2	4410.0
	% Fixture	96.8	3.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.6	0.1
10°-20°	24.0	0.5
20°-30°	74.4	1.7
30°-40°	159.6	3.6
40°-50°	298.9	6.8
50°-60°	775.7	17.6
60°-70°	1420.9	32.2
70°-80°	1139.7	25.8
80°-90°	369.0	8.4
90°-100°	97.2	2.2
100°-110°	31.6	0.7
110°-120°	12.4	0.3
120°-130°	1.0	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°	4267.8	96.8
0°-180°	4410.0	100.0

**Coefficient of Utilization**



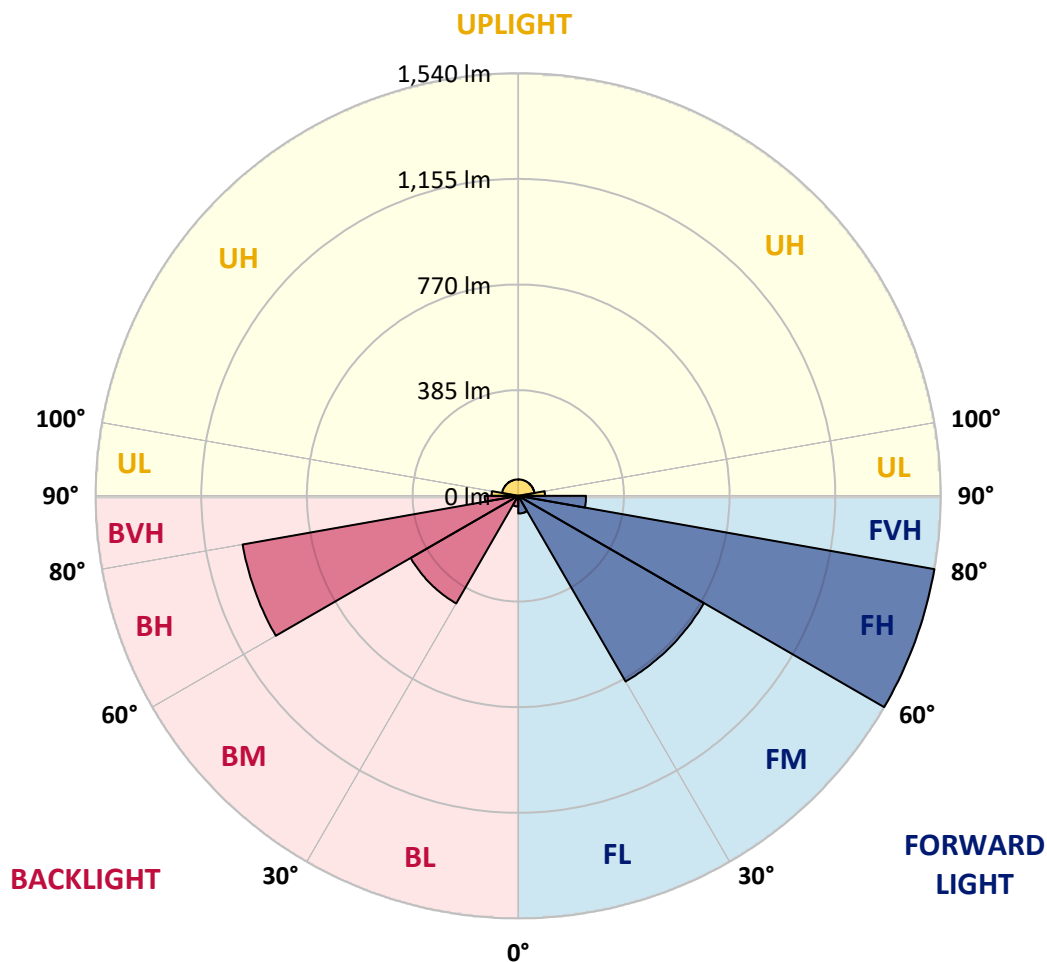
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	64.7	1.5			
FM (30°-60°)	781.4	17.7			
FH (60°-80°)	1540.3	34.9			G1/1800
FVH (80°-90°)	246.9	5.6			G3/500
BL (0°-30°)	39.3	0.9	B0/110		
BM (30°-60°)	452.8	10.3	B1/1000		
BH (60°-80°)	1020.3	23.1	B3/2500		G3/2500
BVH (80°-90°)	122.1	2.8			G2/225
UL (90°-100°)	97.2	2.2		U3/500	
UH (100°-180°)	59.9	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°	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
2.5°	56.5	56.5	56.5	55.6	54.8	54.0	53.1	53.1	52.3	51.4	50.6
5°	61.5	60.7	59.9	58.2	57.3	57.3	56.5	56.5	56.5	55.6	54.8
7.5°	68.3	68.3	67.4	66.6	65.8	64.9	64.1	63.2	63.2	62.4	61.5
10°	77.6	77.6	77.6	76.7	76.7	75.9	74.2	73.3	71.7	70.8	68.3
12.5°	86.8	87.7	86.0	86.0	86.0	85.1	83.5	82.6	80.9	79.2	75.9
15°	96.1	95.3	94.4	93.6	95.3	95.3	94.4	94.4	91.0	88.5	82.6
17.5°	104.5	104.5	105.4	105.4	107.9	107.1	107.1	106.2	104.5	100.3	92.7
20°	118.0	118.9	118.9	118.9	127.3	130.7	131.5	132.4	129.8	121.4	106.2
22.5°	131.5	132.4	138.3	136.6	136.6	136.6	145.0	140.8	129.8	119.7	111.3
25°	177.9	180.4	182.1	188.0	194.7	213.3	242.8	233.5	216.7	182.1	153.4
27.5°	222.6	225.9	256.3	298.4	304.3	282.4	303.5	275.7	267.2	231.8	208.2
30°	242.8	248.7	301.0	329.6	339.7	311.1	341.4	288.3	285.8	260.5	240.3
32.5°	247.9	252.1	309.4	312.8	315.3	311.9	357.5	292.5	286.6	261.3	231.8
35°	240.3	245.3	284.1	264.7	265.6	325.4	410.6	315.3	288.3	244.5	211.6
37.5°	295.9	295.9	328.8	333.8	355.8	428.3	537.9	416.5	386.1	318.7	278.2
40°	337.2	341.4	393.7	413.1	416.5	478.0	673.6	488.1	445.1	356.6	325.4
42.5°	392.9	392.0	440.1	453.6	462.8	485.6	688.8	561.5	510.9	403.8	380.2
45°	402.1	415.6	459.5	444.3	456.1	514.3	719.1	665.2	597.7	493.2	444.3
47.5°	365.0	383.6	472.1	459.5	412.3	439.2	576.6	682.9	608.7	506.7	472.1
50°	393.7	403.8	447.7	439.2	376.0	467.1	633.1	855.7	773.1	602.8	514.3
52.5°	509.2	531.1	538.7	571.6	541.2	698.9	886.0	1084.2	1073.2	872.6	678.7
55°	654.2	686.2	720.0	844.7	862.4	1097.7	1236.8	1448.4	1579.9	1380.1	1041.2
57.5°	811.0	856.5	845.6	1026.8	1054.7	1487.1	1615.3	2111.0	2462.6	2191.1	1525.1
60°	962.8	993.1	931.6	1090.9	1144.0	1872.4	2060.4	2749.2	3212.0	2922.9	1878.3
62.5°	1056.3	1075.7	974.6	1134.7	1197.1	2006.5	2312.5	2820.9	3293.8	3073.8	2069.7
65°	1055.5	1050.4	934.9	1074.0	1065.6	1852.2	2234.9	2370.7	2942.3	2905.2	2094.1
67.5°	1014.2	1015.9	894.5	1004.9	970.4	1633.0	2070.5	2005.6	2586.5	2636.2	2036.8
70°	974.6	994.8	879.3	975.4	959.4	1570.6	1998.9	1805.0	2419.6	2514.0	1976.1
72.5°	918.9	938.3	829.6	913.9	919.8	1445.8	1876.6	1575.7	2133.8	2247.6	1771.3
75°	918.1	942.5	840.5	914.7	924.0	1375.0	1891.8	1496.4	1962.6	2115.2	1653.2
77.5°	865.8	887.7	793.3	862.4	888.6	1244.3	1805.0	1397.8	1772.9	1944.1	1498.9
80°	695.5	725.0	647.5	693.0	707.3	933.3	1447.5	1144.9	1442.5	1613.6	1225.0
82.5°	475.5	502.5	451.0	484.8	503.3	612.1	1000.7	824.5	980.5	1085.0	767.2
85°	274.8	306.9	276.5	272.3	281.6	322.9	538.7	438.4	456.1	479.7	340.6
87.5°	172.8	177.9	162.7	163.6	165.2	177.0	245.3	195.6	215.8	244.5	206.5
90°	137.4	142.5	131.5	132.4	129.8	140.8	183.8	149.2	166.1	191.4	163.6
92.5°	118.9	122.2	114.7	116.3	114.7	123.1	153.4	123.1	136.6	156.8	134.0
95°	101.2	103.7	99.5	100.3	95.3	100.3	119.7	93.6	103.7	118.0	100.3
97.5°	80.9	83.5	80.9	80.9	75.9	78.4	91.9	72.5	79.2	88.5	75.9
100°	64.1	64.9	64.1	63.2	59.0	59.0	64.1	52.3	54.8	60.7	52.3
102.5°	48.9	49.7	48.9	48.1	43.0	40.5	40.5	33.7	35.4	37.1	32.9
105°	38.8	39.6	38.8	37.1	32.9	30.3	29.5	24.4	24.4	25.3	22.8
107.5°	32.0	32.0	32.0	30.3	27.8	24.4	21.9	17.7	17.7	18.5	17.7
110°	26.1	26.1	25.3	24.4	21.9	19.4	16.9	14.3	14.3	14.3	13.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	21.9	21.9	21.1	20.2	17.7	15.2	13.5	11.8	11.8	11.8	11.0
115°	18.5	18.5	17.7	16.9	15.2	12.6	11.0	9.3	9.3	9.3	9.3
117.5°	16.0	16.0	15.2	14.3	12.6	11.0	9.3	7.6	7.6	7.6	7.6
120°	14.3	13.5	12.6	11.8	10.1	9.3	7.6	6.7	6.7	6.7	5.9
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°	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
2.5°	50.6	50.6	49.7	49.7	49.7	48.9	48.9	49.7	49.7	49.7	49.7
5°	54.0	53.1	51.4	49.7	48.9	48.1	47.2	47.2	48.9	48.9	48.9
7.5°	60.7	59.9	57.3	55.6	54.0	52.3	51.4	50.6	51.4	52.3	52.3
10°	67.4	66.6	63.2	60.7	59.9	58.2	57.3	56.5	57.3	57.3	57.3
12.5°	74.2	72.5	70.0	66.6	64.9	64.1	63.2	62.4	62.4	62.4	62.4
15°	80.1	77.6	75.0	72.5	70.8	69.1	68.3	67.4	68.3	69.1	69.1
17.5°	89.4	86.8	80.9	76.7	75.9	74.2	73.3	73.3	74.2	75.0	75.0
20°	99.5	94.4	87.7	83.5	82.6	80.1	79.2	79.2	80.1	80.9	80.9
22.5°	107.9	104.5	94.4	88.5	87.7	86.8	87.7	87.7	88.5	89.4	89.4
25°	137.4	123.9	109.6	105.4	104.5	102.9	101.2	100.3	101.2	103.7	104.5
27.5°	185.5	161.0	134.0	124.8	124.8	126.5	129.8	131.5	128.1	126.5	127.3
30°	217.5	184.6	145.8	137.4	139.1	147.5	155.1	160.2	156.8	154.3	155.1
32.5°	209.1	178.7	150.9	149.2	154.3	161.0	165.2	167.8	174.5	177.0	180.4
35°	190.5	167.8	152.6	159.3	162.7	162.7	162.7	162.7	175.4	187.2	190.5
37.5°	232.7	193.9	181.3	183.8	181.3	178.7	181.3	188.0	199.0	208.2	210.8
40°	273.1	224.3	203.2	201.5	200.6	209.1	224.3	236.1	239.4	231.0	232.7
42.5°	317.8	253.8	226.8	229.3	236.1	249.5	266.4	266.4	266.4	258.8	261.3
45°	360.0	288.3	272.3	279.1	279.1	285.8	295.1	289.2	296.8	300.1	304.3
47.5°	409.7	334.7	299.3	293.4	294.2	307.7	311.1	308.6	313.6	307.7	307.7
50°	424.9	342.3	314.5	337.2	337.2	322.0	309.4	311.1	325.4	341.4	344.8
52.5°	540.4	424.1	398.8	422.4	432.5	406.4	406.4	409.7	413.1	424.9	428.3
55°	808.5	604.5	528.6	583.4	591.0	607.0	650.8	644.1	605.3	585.9	584.2
57.5°	1208.9	897.0	658.4	736.0	784.9	850.6	883.5	864.1	811.9	794.2	774.8
60°	1545.3	1228.3	853.2	988.1	1061.4	1072.4	1060.6	1062.2	1022.6	1035.3	1030.2
62.5°	1670.1	1507.4	1096.8	1178.6	1189.5	1155.8	1187.0	1258.7	1194.6	1156.7	1150.8
65°	1707.2	1611.1	1165.1	1112.0	1101.9	1096.0	1219.1	1338.8	1195.4	1106.9	1106.1
67.5°	1670.1	1504.8	1078.3	990.6	1014.2	1062.2	1222.4	1267.1	1132.2	1034.4	1027.7
70°	1622.0	1333.7	970.4	894.5	949.3	1019.2	1121.3	1103.6	1050.4	963.6	959.4
72.5°	1447.5	1155.8	901.2	838.0	900.4	920.6	971.2	963.6	978.8	924.0	921.5
75°	1295.8	1061.4	859.9	785.7	816.1	812.7	853.2	862.4	905.4	881.8	872.6
77.5°	1117.9	923.1	757.9	671.9	683.7	682.9	702.3	708.2	738.5	740.2	730.1
80°	875.1	723.3	591.8	505.8	507.5	492.3	494.9	494.0	499.9	506.7	497.4
82.5°	502.5	403.8	335.5	280.7	268.9	248.7	244.5	246.2	243.6	242.0	242.0
85°	246.2	191.4	176.2	157.7	150.9	145.8	148.4	153.4	156.0	150.9	148.4
87.5°	166.1	143.3	136.6	129.0	125.6	120.6	123.9	128.1	131.5	127.3	126.5
90°	131.5	113.8	112.1	110.4	107.9	103.7	107.1	112.1	114.7	111.3	109.6
92.5°	106.2	91.9	91.9	91.0	88.5	85.1	89.4	93.6	96.1	93.6	92.7
95°	81.8	70.8	73.3	71.7	69.1	68.3	70.8	74.2	75.9	74.2	74.2
97.5°	63.2	55.6	58.2	57.3	54.0	53.1	54.8	57.3	59.0	57.3	56.5
100°	43.0	39.6	43.0	43.0	39.6	37.9	39.6	42.2	43.0	43.0	42.2
102.5°	28.7	27.0	31.2	32.0	30.3	28.7	29.5	31.2	32.0	32.0	32.0
105°	20.2	20.2	24.4	25.3	23.6	21.9	23.6	24.4	24.4	24.4	24.4
107.5°	16.0	16.9	19.4	21.1	19.4	17.7	18.5	19.4	19.4	19.4	20.2
110°	13.5	13.5	16.0	17.7	16.0	15.2	15.2	15.2	15.2	16.0	17.7



REPORT NUMBER: P588443  
 CATALOG NUMBER: GAT-CA6-LED-50-722-U-33-5-6-X

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	11.0	11.8	13.5	14.3	13.5	12.6	12.6	12.6	12.6	13.5	16.0
115°	9.3	10.1	11.8	11.8	11.0	11.0	11.0	10.1	10.1	11.0	15.2
117.5°	7.6	8.4	9.3	9.3	9.3	8.4	8.4	8.4	8.4	10.1	16.0
120°	6.7	6.7	7.6	7.6	6.7	6.7	6.7	6.7	5.9	8.4	12.6
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)