

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: P588492

Luminaire Tested: **GAT-CA6-LED-70-722-U-33-5-X-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588492  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-9)  
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-70-722-U-33-5-X-X  
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR  
Light Source: (6) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8722 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U4 - G5

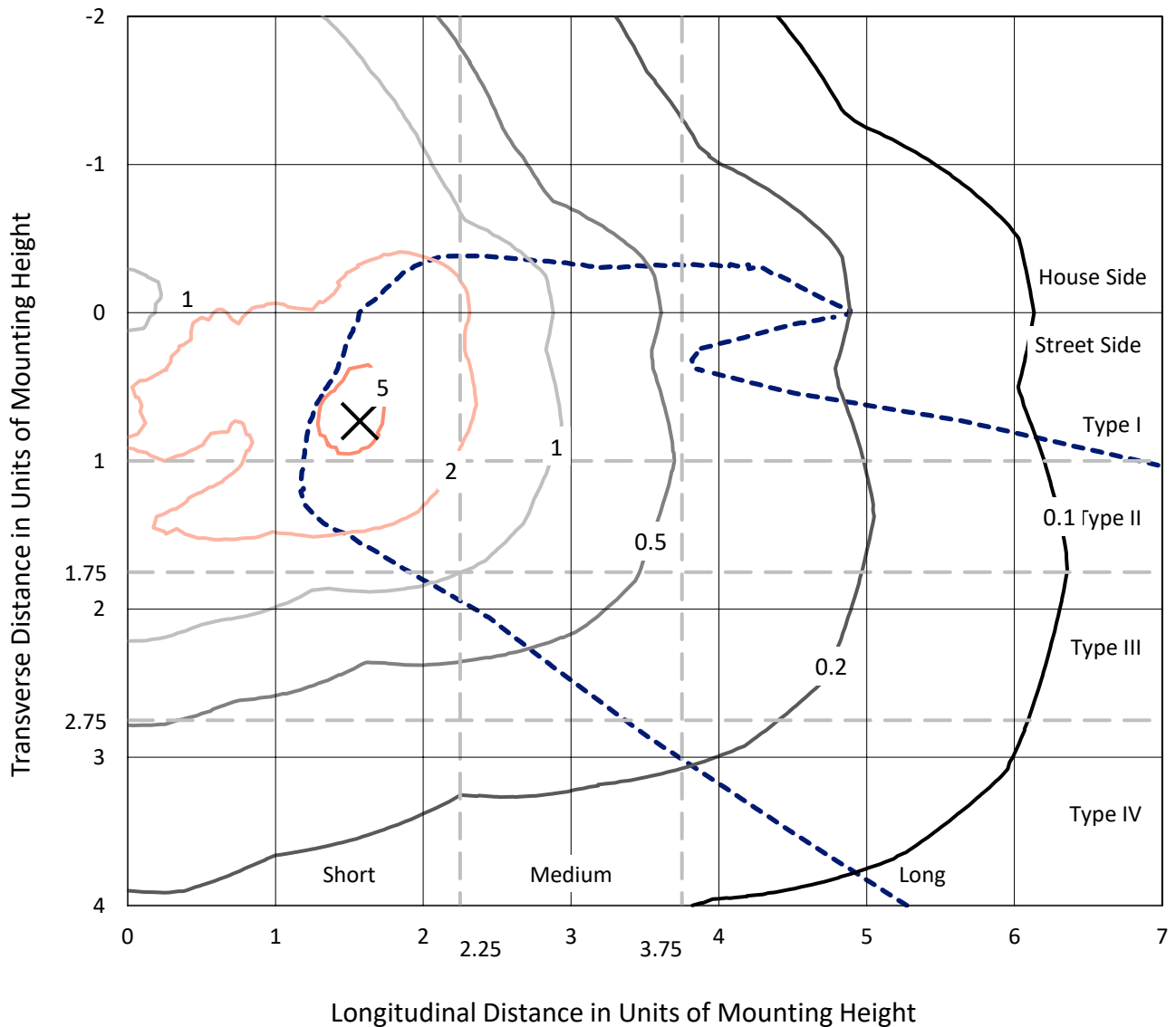
Input Watts (W): 73.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

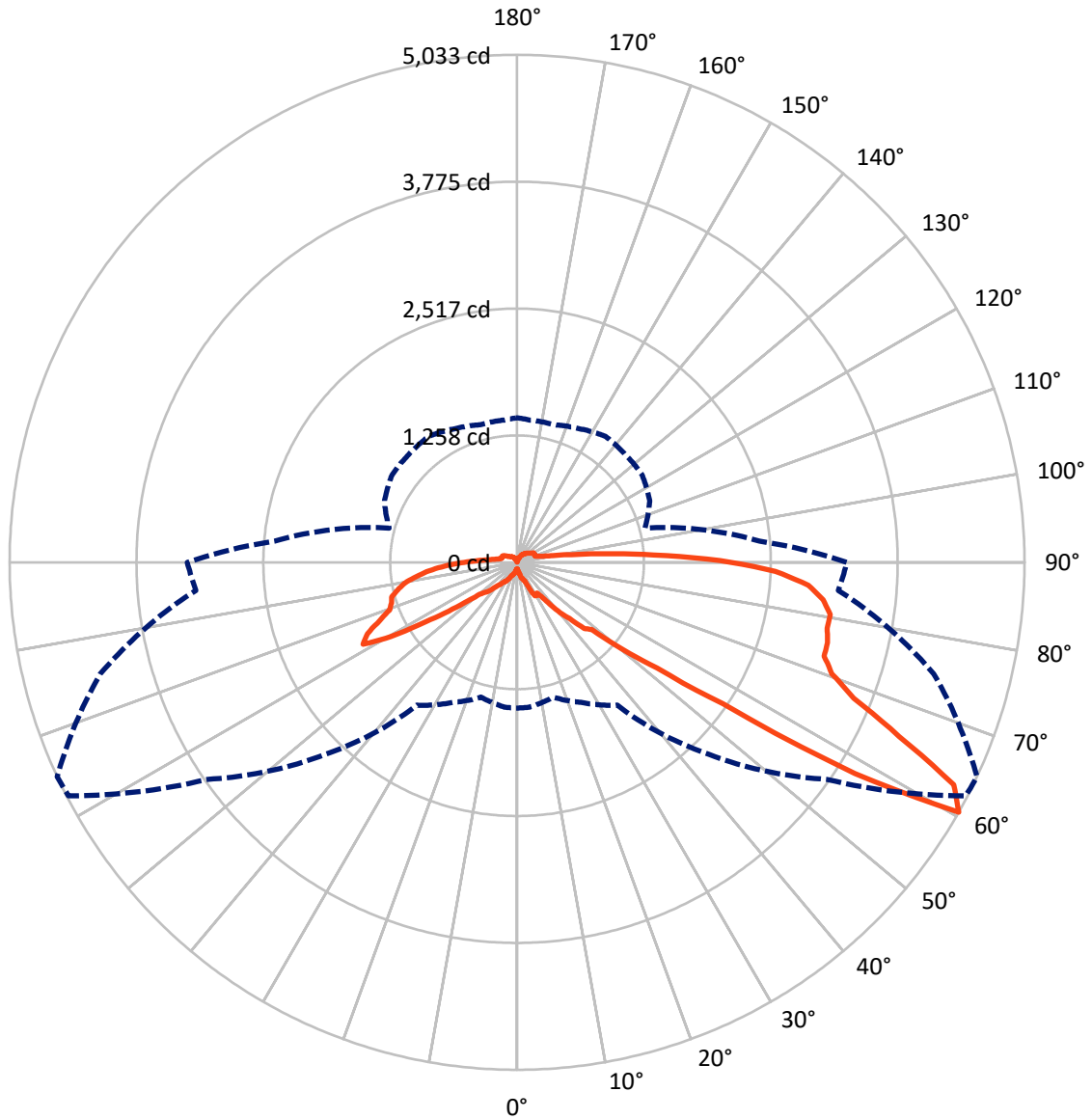
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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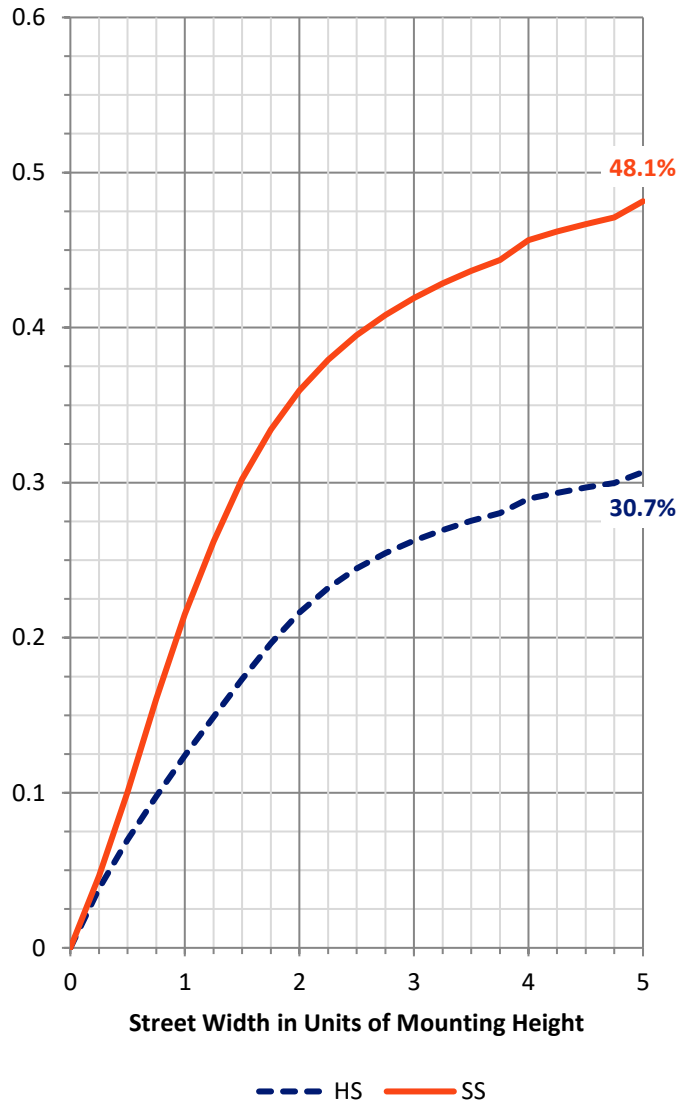
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2908.6	465.8	3374.4
	% Fixture	33.3	5.3	38.7
<b>Street Side</b>	Lumens	4653.4	694.3	5347.6
	% Fixture	53.4	8.0	61.3
<b>Total</b>	Lumens	7561.9	1160.1	8722.0
	% Fixture	86.7	13.3	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.4	0.1
10°-20°	37.2	0.4
20°-30°	106.5	1.2
30°-40°	229.4	2.6
40°-50°	434.1	5.0
50°-60°	1212.7	13.9
60°-70°	2161.9	24.8
70°-80°	1892.8	21.7
80°-90°	1478.9	17.0
90°-100°	559.1	6.4
100°-110°	192.3	2.2
110°-120°	157.2	1.8
120°-130°	105.7	1.2
130°-140°	72.5	0.8
140°-150°	45.6	0.5
150°-160°	21.1	0.2
160°-170°	6.0	0.1
170°-180°	0.5	0.0
0°-90°	7561.9	86.7
0°-180°	8722.0	100.0

**Coefficient of Utilization**

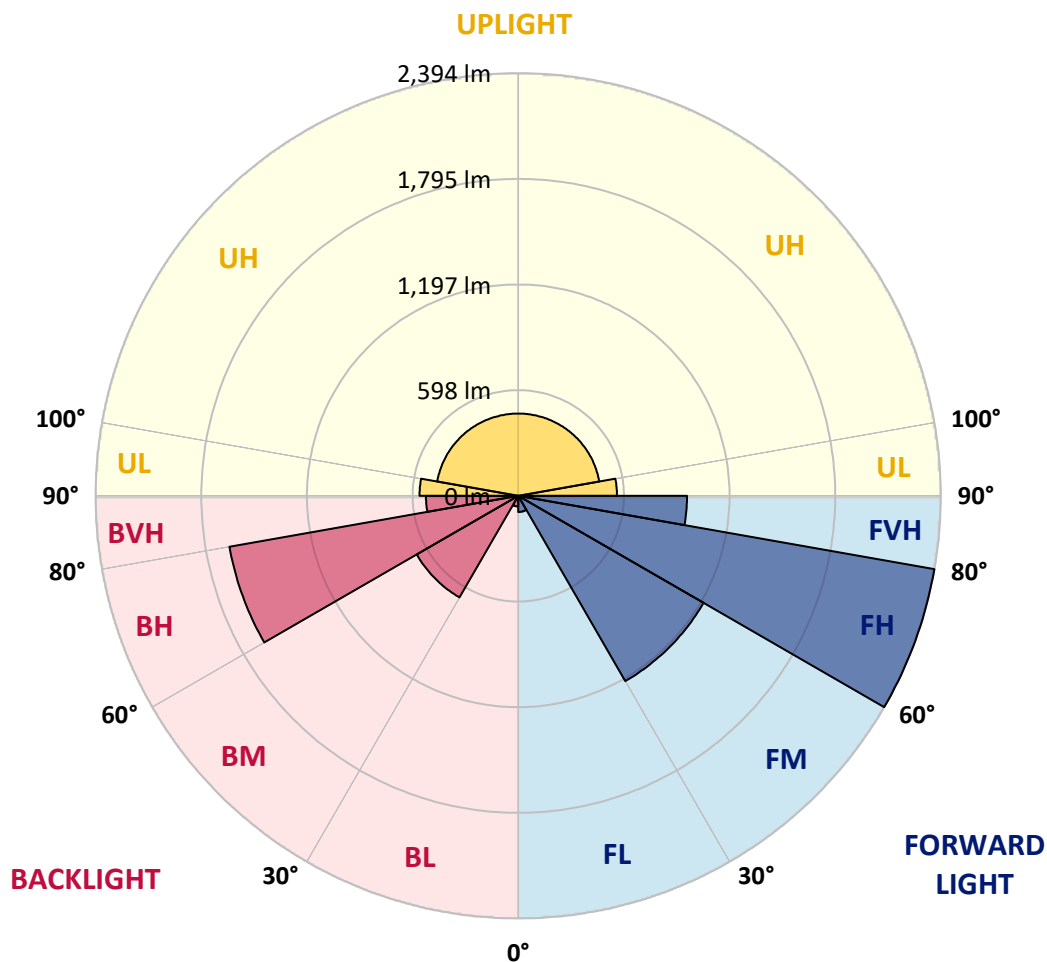


REPORT NUMBER: P588492  
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	91.9	1.1			
FM (30°-60°)	1211.8	13.9			
FH (60°-80°)	2393.7	27.4			G2/5000
FVH (80°-90°)	955.9	11.0			G5
BL (0°-30°)	60.2	0.7	B0/110		
BM (30°-60°)	664.3	7.6	B1/1000		
BH (60°-80°)	1661.0	19.0	B3/2500		G3/2500
BVH (80°-90°)	523.0	6.0			G4/750
UL (90°-100°)	559.1	6.4		U4/1000	
UH (100°-180°)	465.8	5.3		U3/500	

**BUG Rating: B3-U4-G5**  
 Type III Short





REPORT NUMBER: P588492  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
2.5°	76.9	74.6	72.4	72.4	71.2	70.1	70.1	67.8	69.0	67.8	67.8
5°	90.5	89.3	87.1	88.2	85.9	84.8	84.8	83.7	82.5	81.4	78.0
7.5°	105.2	105.2	106.3	107.4	104.0	100.6	99.5	97.2	97.2	96.1	93.9
10°	121.0	119.9	115.3	115.3	113.1	110.8	111.9	110.8	110.8	110.8	106.3
12.5°	125.5	124.4	121.0	121.0	121.0	119.9	124.4	123.3	124.4	123.3	116.5
15°	141.3	140.2	139.1	140.2	144.7	153.8	165.1	160.6	161.7	159.4	134.6
17.5°	148.1	151.5	153.8	154.9	159.4	159.4	161.7	160.6	165.1	168.5	153.8
20°	171.9	169.6	171.9	179.8	191.1	192.2	188.8	188.8	191.1	192.2	164.0
22.5°	182.1	180.9	190.0	183.2	183.2	188.8	209.2	202.4	202.4	200.2	176.4
25°	236.3	240.9	249.9	261.2	288.4	296.3	318.9	294.0	297.4	262.3	223.9
27.5°	283.8	287.2	340.4	387.9	409.3	398.0	417.3	370.9	375.4	379.9	326.8
30°	298.5	305.3	382.2	417.3	445.5	422.9	447.8	386.7	383.3	409.3	387.9
32.5°	287.2	294.0	375.4	390.1	419.5	503.2	471.5	373.2	363.0	375.4	401.4
35°	315.5	320.0	368.6	333.6	360.7	703.4	617.4	435.4	415.0	346.0	384.5
37.5°	378.8	378.8	436.5	461.4	481.7	830.0	810.8	541.7	525.8	404.8	444.4
40°	459.1	456.8	528.1	545.0	554.1	752.0	980.4	690.9	655.9	476.1	579.0
42.5°	507.7	503.2	560.9	579.0	579.0	636.6	1109.3	841.3	759.9	555.2	707.9
45°	527.0	531.5	606.1	583.5	600.5	653.6	1247.3	1049.4	935.2	651.3	821.0
47.5°	477.2	484.0	591.4	593.7	507.7	522.4	1118.4	1090.1	996.2	697.7	857.1
50°	585.8	590.3	628.7	602.7	560.9	661.5	1332.1	1401.1	1360.3	863.9	904.6
52.5°	804.0	824.3	860.5	883.2	870.7	1111.6	1786.7	1774.2	1740.3	1297.0	1234.8
55°	1041.5	1058.4	1109.3	1246.1	1350.2	1664.5	2222.0	2482.1	2479.8	2106.7	1924.6
57.5°	1257.4	1258.6	1265.4	1433.8	1594.4	2173.4	2910.7	3866.2	3952.1	3365.2	2755.7
60°	1445.2	1441.8	1384.1	1534.5	1730.1	2694.7	3752.0	5016.2	5033.2	4278.9	3196.8
62.5°	1496.0	1485.9	1402.2	1542.4	1709.8	2704.9	3966.8	4879.4	4860.2	4343.4	3254.4
65°	1451.9	1441.8	1335.5	1461.0	1540.1	2458.3	3663.8	4196.4	4164.7	3968.0	3098.4
67.5°	1386.4	1393.1	1288.0	1384.1	1438.4	2305.7	3344.9	3610.6	3601.6	3697.7	2968.3
70°	1291.4	1297.0	1200.9	1319.6	1398.8	2208.4	3039.6	3327.9	3312.1	3453.4	2777.2
72.5°	1294.8	1311.7	1197.5	1286.8	1369.4	2075.0	2901.6	3230.7	3184.3	3205.8	2547.7
75°	1303.8	1326.4	1205.4	1285.7	1362.6	2026.4	2885.8	3238.6	3179.8	3116.5	2460.6
77.5°	1307.2	1340.0	1209.9	1298.2	1364.9	1959.7	2849.6	3199.0	3143.6	3030.5	2357.7
80°	1280.1	1315.1	1190.7	1299.3	1350.2	1827.4	2758.0	3192.2	3150.4	3019.2	2315.9
82.5°	1225.8	1260.8	1153.4	1242.7	1321.9	1692.8	2629.1	3059.9	3057.7	2910.7	2227.7
85°	1107.0	1145.5	1064.1	1146.6	1243.9	1514.1	2369.0	2834.9	2897.1	2778.4	2108.9
87.5°	992.8	1031.3	988.3	1034.7	1133.1	1316.2	2035.4	2447.0	2563.5	2465.1	1811.5
90°	862.8	902.4	867.3	849.2	928.4	1050.5	1627.2	1903.1	2012.8	1952.9	1333.2
92.5°	690.9	724.8	692.0	650.2	697.7	771.2	1208.8	1332.1	1358.1	1300.4	874.1
95°	522.4	547.3	517.9	476.1	481.7	528.1	833.4	873.0	866.2	797.2	555.2
97.5°	363.0	377.7	358.5	329.1	339.2	368.6	551.8	547.3	547.3	487.4	363.0
100°	252.2	257.8	248.8	235.2	243.1	262.3	370.9	369.8	358.5	329.1	264.6
102.5°	200.2	201.3	192.2	183.2	178.7	196.8	268.0	266.9	269.1	255.6	206.9
105°	176.4	175.3	167.4	159.4	150.4	168.5	212.6	221.6	220.5	209.2	177.5
107.5°	161.7	160.6	152.7	145.9	138.0	153.8	184.3	196.8	195.6	194.5	167.4
110°	150.4	149.3	142.5	135.7	128.9	147.0	173.0	192.2	192.2	192.2	169.6



REPORT NUMBER: P588492  
 CATALOG NUMBER: GAT-CA6-LED-70-722-U-33-5-X-X

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	142.5	142.5	136.8	131.2	125.5	145.9	166.2	188.8	188.8	194.5	177.5
115°	138.0	136.8	132.3	128.9	124.4	147.0	164.0	186.6	187.7	195.6	176.4
117.5°	134.6	133.4	130.0	125.5	123.3	144.7	165.1	191.1	190.0	202.4	173.0
120°	128.9	126.6	122.1	117.6	115.3	133.4	160.6	185.5	183.2	188.8	159.4
122.5°	124.4	117.6	109.7	106.3	106.3	121.0	150.4	167.4	165.1	160.6	143.6
125°	114.2	107.4	100.6	99.5	100.6	113.1	143.6	153.8	154.9	151.5	135.7
127.5°	102.9	98.4	95.0	95.0	97.2	110.8	141.3	148.1	148.1	141.3	128.9
130°	97.2	96.1	93.9	93.9	98.4	111.9	138.0	140.2	140.2	131.2	125.5
132.5°	95.0	92.7	90.5	90.5	95.0	108.6	128.9	133.4	132.3	123.3	118.7
135°	90.5	89.3	87.1	87.1	92.7	106.3	121.0	125.5	124.4	113.1	109.7
137.5°	88.2	85.9	85.9	85.9	91.6	105.2	114.2	117.6	116.5	105.2	101.8
140°	84.8	83.7	81.4	81.4	89.3	101.8	107.4	108.6	107.4	98.4	95.0
142.5°	79.2	78.0	76.9	79.2	87.1	96.1	100.6	100.6	99.5	93.9	89.3
145°	75.8	74.6	73.5	79.2	85.9	90.5	95.0	91.6	91.6	88.2	83.7
147.5°	72.4	71.2	71.2	75.8	81.4	81.4	84.8	83.7	84.8	83.7	79.2
150°	65.6	64.5	64.5	67.8	69.0	69.0	72.4	72.4	72.4	72.4	69.0
152.5°	57.7	56.5	57.7	58.8	58.8	58.8	61.1	62.2	62.2	61.1	59.9
155°	49.8	49.8	49.8	50.9	50.9	49.8	53.1	53.1	53.1	53.1	52.0
157.5°	44.1	44.1	44.1	44.1	44.1	43.0	45.2	45.2	46.4	45.2	45.2
160°	38.4	37.3	37.3	37.3	37.3	36.2	37.3	37.3	37.3	38.4	38.4
162.5°	30.5	29.4	29.4	29.4	29.4	27.1	29.4	28.3	29.4	29.4	30.5
165°	24.9	23.7	23.7	23.7	22.6	21.5	22.6	21.5	21.5	21.5	22.6
167.5°	19.2	19.2	18.1	19.2	18.1	15.8	15.8	14.7	14.7	14.7	14.7
170°	14.7	13.6	12.4	13.6	12.4	10.2	10.2	9.0	9.0	7.9	7.9
172.5°	10.2	9.0	7.9	9.0	7.9	5.7	5.7	3.4	3.4	3.4	3.4
175°	9.0	7.9	6.8	7.9	6.8	4.5	3.4	2.3	2.3	2.3	2.3
177.5°	9.0	7.9	6.8	7.9	6.8	4.5	3.4	2.3	2.3	2.3	2.3
180°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
2.5°	67.8	66.7	65.6	67.8	66.7	67.8	69.0	70.1	70.1	69.0	69.0
5°	78.0	76.9	74.6	73.5	71.2	71.2	71.2	73.5	73.5	72.4	73.5
7.5°	92.7	90.5	87.1	84.8	81.4	81.4	80.3	82.5	83.7	81.4	82.5
10°	104.0	102.9	98.4	95.0	91.6	90.5	90.5	91.6	91.6	90.5	90.5
12.5°	114.2	111.9	107.4	104.0	99.5	98.4	98.4	99.5	99.5	98.4	98.4
15°	128.9	122.1	117.6	114.2	109.7	108.6	107.4	108.6	109.7	107.4	107.4
17.5°	149.3	141.3	131.2	122.1	117.6	119.9	121.0	122.1	121.0	117.6	117.6
20°	160.6	156.0	142.5	135.7	130.0	130.0	130.0	130.0	130.0	128.9	130.0
22.5°	168.5	161.7	144.7	140.2	136.8	139.1	141.3	142.5	142.5	141.3	141.3
25°	204.7	179.8	162.8	159.4	154.9	156.0	153.8	153.8	154.9	153.8	156.0
27.5°	281.6	240.9	202.4	188.8	185.5	185.5	187.7	187.7	187.7	187.7	186.6
30°	338.1	290.6	227.3	209.2	206.9	217.1	222.8	227.3	225.0	221.6	221.6
32.5°	347.2	295.1	231.8	225.0	230.7	238.6	244.3	247.6	251.0	249.9	248.8
35°	327.9	272.5	228.4	237.5	242.0	246.5	247.6	245.4	255.6	260.1	261.2
37.5°	366.4	305.3	265.7	272.5	266.9	262.3	264.6	265.7	279.3	286.1	292.9
40°	468.1	368.6	301.9	298.5	295.1	305.3	318.9	325.7	324.5	320.0	321.1
42.5°	566.5	430.8	340.4	339.2	338.1	356.2	377.7	376.6	366.4	358.5	358.5
45°	667.2	490.8	401.4	402.6	400.3	407.1	412.7	408.2	409.3	411.6	413.9
47.5°	729.4	545.0	439.9	436.5	421.8	435.4	451.2	441.0	437.6	432.0	434.2
50°	744.1	558.6	462.5	487.4	473.8	463.6	446.7	439.9	452.3	461.4	468.1
52.5°	966.8	689.8	577.8	617.4	599.3	563.1	559.7	548.4	562.0	563.1	571.1
55°	1620.4	1105.9	796.1	834.5	835.7	823.2	879.8	848.1	819.8	807.4	802.9
57.5°	2554.5	1709.8	1030.2	1078.8	1125.1	1169.2	1246.1	1181.7	1100.3	1090.1	1101.4
60°	3271.4	2414.2	1314.0	1450.8	1513.0	1515.3	1525.4	1462.1	1412.4	1416.9	1432.7
62.5°	3425.2	3002.3	1673.6	1730.1	1735.8	1693.9	1712.0	1752.7	1682.6	1627.2	1641.9
65°	3322.3	3235.2	1791.2	1644.2	1635.1	1641.9	1765.2	1878.2	1736.9	1596.7	1596.7
67.5°	3123.3	3057.7	1671.3	1479.1	1504.0	1580.9	1736.9	1793.4	1643.0	1493.8	1493.8
70°	2910.7	2779.5	1536.7	1347.9	1409.0	1498.3	1600.1	1604.6	1516.4	1410.1	1403.3
72.5°	2681.1	2562.4	1479.1	1309.5	1337.7	1353.6	1409.0	1444.0	1433.8	1364.9	1363.7
75°	2613.3	2517.1	1477.9	1291.4	1274.4	1268.8	1307.2	1383.0	1418.0	1377.3	1379.6
77.5°	2510.4	2452.7	1409.0	1215.6	1197.5	1197.5	1217.9	1278.9	1332.1	1315.1	1320.8
80°	2439.1	2352.1	1303.8	1133.1	1108.2	1111.6	1113.8	1155.7	1205.4	1207.7	1207.7
82.5°	2302.3	2138.3	1144.4	1009.8	992.8	997.4	989.4	1013.2	1026.8	1043.7	1040.3
85°	2077.3	1845.5	966.8	875.2	848.1	839.0	832.3	833.4	841.3	837.9	824.3
87.5°	1740.3	1463.2	771.2	718.1	686.4	663.8	654.7	643.4	642.3	629.9	634.4
90°	1284.6	1004.1	572.2	553.0	530.3	506.6	494.2	482.8	473.8	461.4	456.8
92.5°	837.9	646.8	418.4	408.2	393.5	379.9	374.3	368.6	366.4	356.2	359.6
95°	523.6	437.6	314.4	303.1	295.1	291.7	292.9	294.0	291.7	280.4	283.8
97.5°	349.4	316.6	245.4	237.5	229.6	228.4	229.6	231.8	232.9	225.0	227.3
100°	257.8	243.1	201.3	195.6	188.8	186.6	187.7	190.0	191.1	184.3	185.5
102.5°	204.7	197.9	174.1	171.9	164.0	161.7	164.0	165.1	166.2	161.7	161.7
105°	179.8	179.8	160.6	159.4	153.8	151.5	152.7	153.8	154.9	150.4	150.4
107.5°	173.0	174.1	154.9	156.0	152.7	151.5	153.8	156.0	154.9	151.5	150.4
110°	178.7	180.9	154.9	158.3	159.4	161.7	166.2	167.4	167.4	165.1	166.2



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	184.3	187.7	152.7	160.6	168.5	174.1	182.1	186.6	184.3	183.2	184.3
115°	179.8	182.1	142.5	154.9	169.6	177.5	179.8	179.8	174.1	174.1	175.3
117.5°	174.1	178.7	132.3	142.5	152.7	159.4	158.3	154.9	148.1	145.9	152.7
120°	161.7	175.3	126.6	128.9	130.0	132.3	128.9	125.5	119.9	118.7	123.3
122.5°	149.3	161.7	116.5	114.2	113.1	113.1	111.9	110.8	107.4	108.6	113.1
125°	139.1	145.9	106.3	102.9	101.8	102.9	102.9	102.9	100.6	98.4	98.4
127.5°	131.2	133.4	100.6	96.1	95.0	95.0	95.0	96.1	95.0	91.6	91.6
130°	126.6	125.5	97.2	89.3	88.2	89.3	89.3	90.5	88.2	85.9	85.9
132.5°	117.6	115.3	92.7	84.8	83.7	84.8	84.8	84.8	82.5	80.3	80.3
135°	107.4	105.2	87.1	79.2	78.0	79.2	79.2	80.3	78.0	75.8	75.8
137.5°	99.5	97.2	81.4	74.6	73.5	73.5	74.6	74.6	73.5	71.2	71.2
140°	92.7	90.5	75.8	70.1	67.8	69.0	69.0	69.0	67.8	65.6	65.6
142.5°	87.1	85.9	70.1	64.5	62.2	63.3	63.3	64.5	62.2	59.9	59.9
145°	82.5	80.3	65.6	58.8	57.7	57.7	57.7	58.8	56.5	54.3	54.3
147.5°	78.0	75.8	59.9	53.1	52.0	52.0	52.0	52.0	50.9	48.6	47.5
150°	69.0	67.8	55.4	48.6	46.4	46.4	46.4	45.2	43.0	40.7	40.7
152.5°	58.8	57.7	48.6	43.0	40.7	40.7	39.6	39.6	37.3	36.2	35.1
155°	50.9	50.9	44.1	38.4	36.2	35.1	33.9	33.9	32.8	31.7	30.5
157.5°	45.2	44.1	39.6	35.1	30.5	30.5	29.4	29.4	28.3	27.1	26.0
160°	38.4	38.4	33.9	29.4	26.0	24.9	24.9	23.7	22.6	21.5	21.5
162.5°	30.5	30.5	27.1	23.7	20.4	20.4	19.2	19.2	18.1	17.0	15.8
165°	21.5	21.5	20.4	18.1	15.8	14.7	14.7	14.7	13.6	12.4	12.4
167.5°	14.7	14.7	13.6	12.4	11.3	10.2	11.3	11.3	10.2	9.0	9.0
170°	7.9	7.9	6.8	6.8	5.7	5.7	6.8	7.9	6.8	5.7	4.5
172.5°	3.4	3.4	3.4	3.4	2.3	3.4	4.5	5.7	4.5	3.4	3.4
175°	2.3	2.3	3.4	3.4	2.3	3.4	4.5	5.7	4.5	3.4	3.4
177.5°	2.3	2.3	3.4	3.4	2.3	3.4	4.5	5.7	4.5	3.4	3.4
180°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5

(END OF REPORT)