

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: P588512

Luminaire Tested: **GAT-CA6-LED-70-760-U-33-5-X-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588512  
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-70-760-U-33-5-X-X  
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR  
Light Source: (6) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10313 lumens  
Efficiency: N/A  
Efficacy: 139.6 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

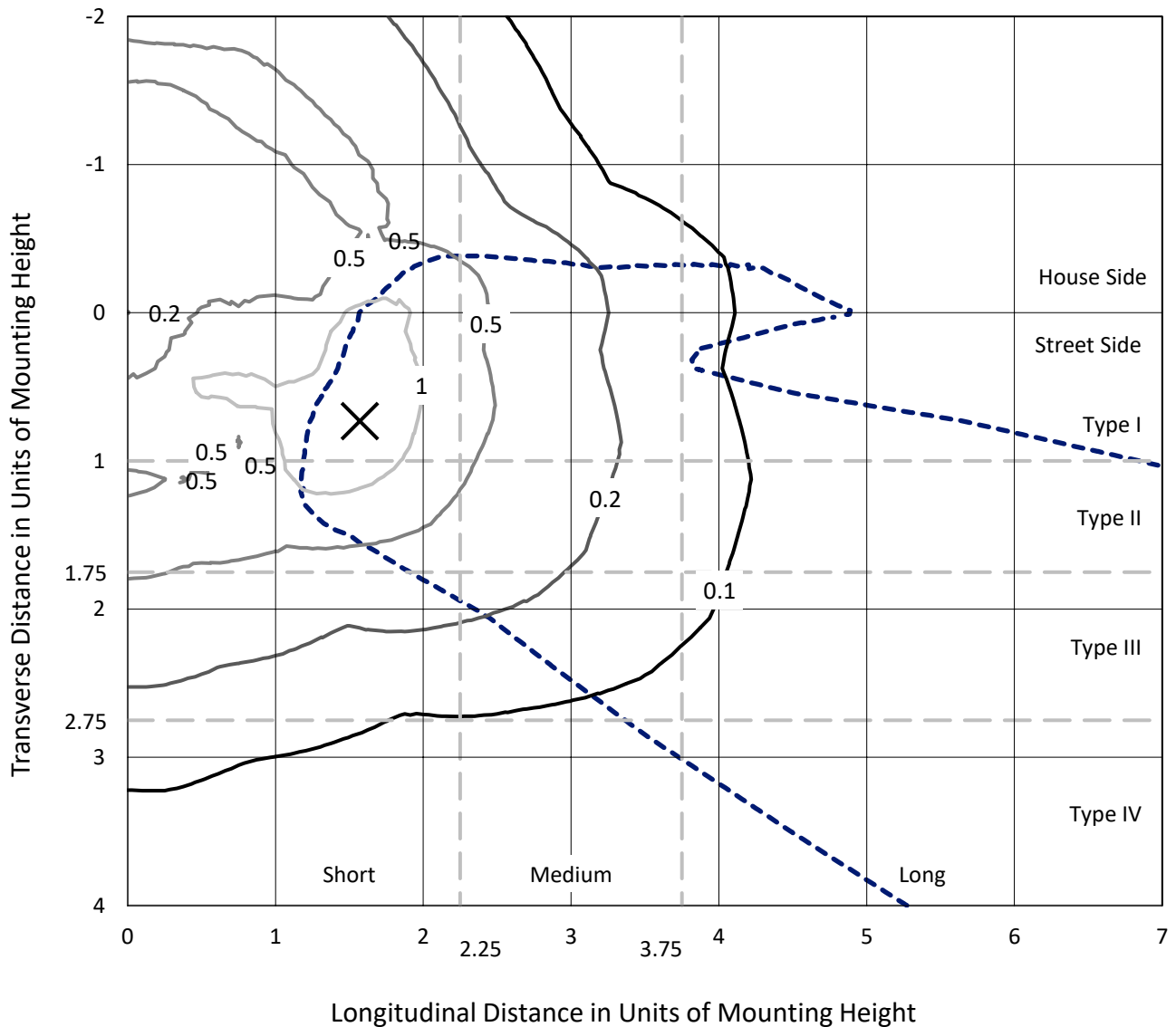
Input Watts (W): 73.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

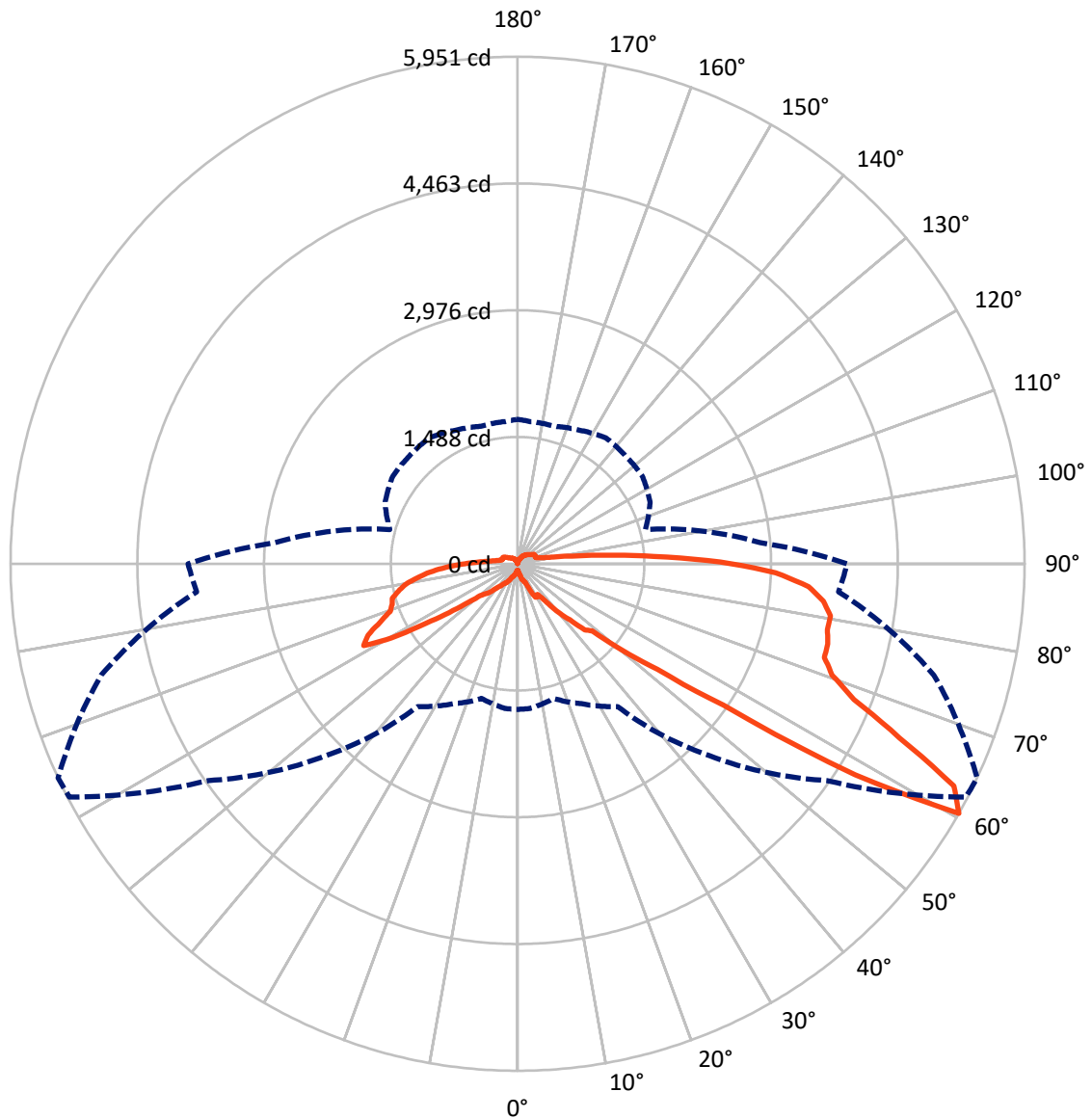
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.9 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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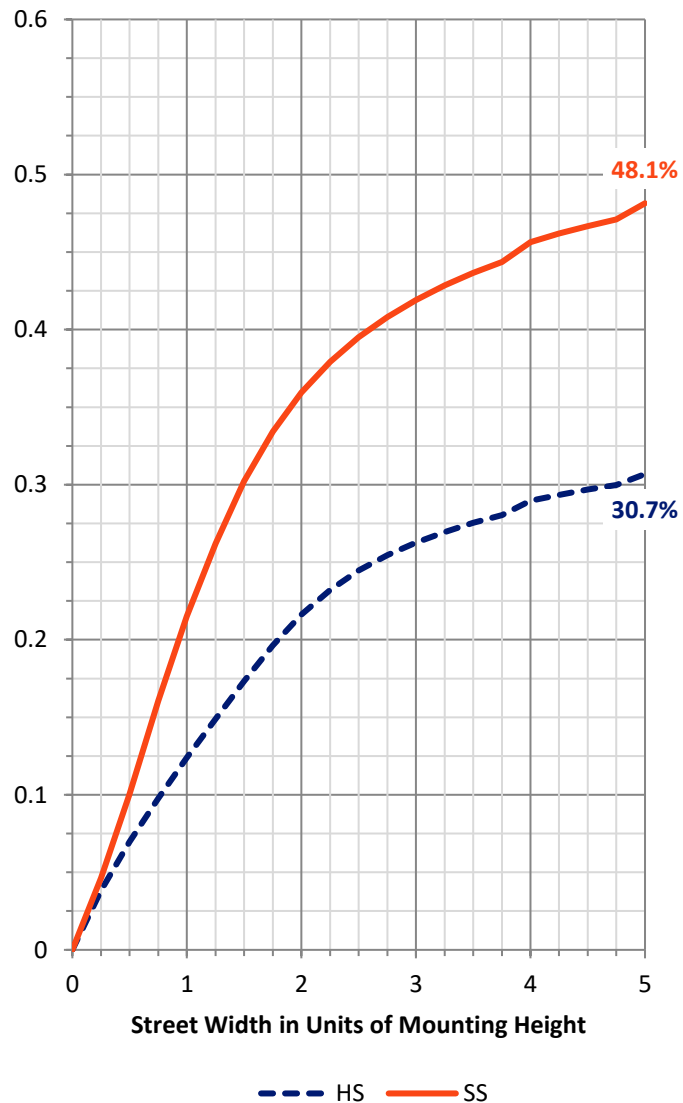
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3439.1	550.8	3989.9
	% Fixture	33.3	5.3	38.7
<b>Street Side</b>	Lumens	5502.2	820.9	6323.1
	% Fixture	53.4	8.0	61.3
<b>Total</b>	Lumens	8941.3	1371.7	10313.0
	% Fixture	86.7	13.3	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.9	0.1
10°-20°	44.0	0.4
20°-30°	126.0	1.2
30°-40°	271.3	2.6
40°-50°	513.3	5.0
50°-60°	1433.9	13.9
60°-70°	2556.3	24.8
70°-80°	2238.1	21.7
80°-90°	1748.7	17.0
90°-100°	661.1	6.4
100°-110°	227.4	2.2
110°-120°	185.9	1.8
120°-130°	124.9	1.2
130°-140°	85.7	0.8
140°-150°	53.9	0.5
150°-160°	25.0	0.2
160°-170°	7.1	0.1
170°-180°	0.6	0.0
0°-90°	8941.3	86.7
0°-180°	10313.0	100.0

**Coefficient of Utilization**

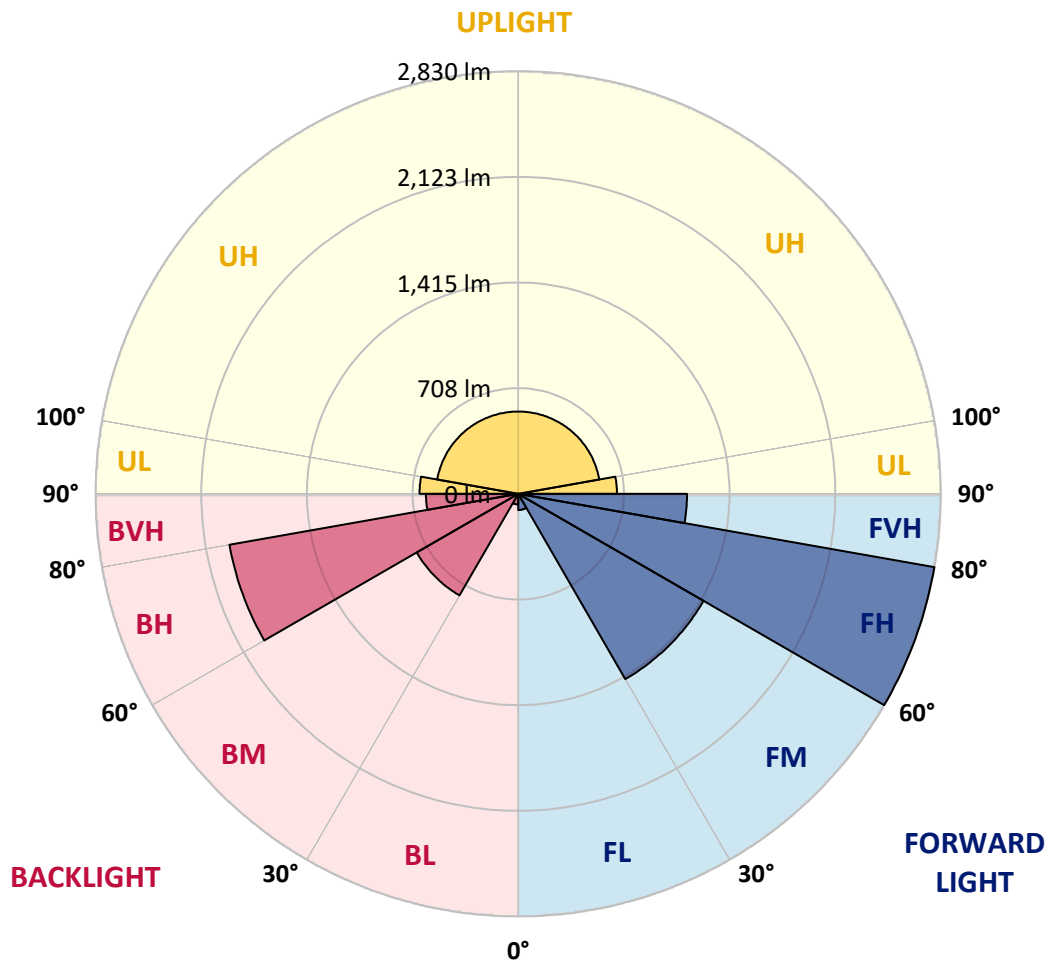


REPORT NUMBER: P588512  
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	108.7	1.1			
FM (30°-60°)	1432.9	13.9			
FH (60°-80°)	2830.4	27.4			G2/5000
FVH (80°-90°)	1130.3	11.0			G5
BL (0°-30°)	71.2	0.7	B0/110		
BM (30°-60°)	785.5	7.6	B1/1000		
BH (60°-80°)	1964.0	19.0	B3/2500		G3/2500
BVH (80°-90°)	618.4	6.0			G4/750
UL (90°-100°)	661.1	6.4		U4/1000	
UH (100°-180°)	550.8	5.3		U4/1000	

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





REPORT NUMBER: P588512  
 CATALOG NUMBER: GAT-CA6-LED-70-760-U-33-5-X-X

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
2.5°	90.9	88.2	85.6	85.6	84.2	82.9	82.9	80.2	81.6	80.2	80.2
5°	107.0	105.6	103.0	104.3	101.6	100.3	100.3	98.9	97.6	96.3	92.3
7.5°	124.3	124.3	125.7	127.0	123.0	119.0	117.7	115.0	115.0	113.7	111.0
10°	143.1	141.7	136.4	136.4	133.7	131.0	132.4	131.0	131.0	131.0	125.7
12.5°	148.4	147.1	143.1	143.1	143.1	141.7	147.1	145.7	147.1	145.7	137.7
15°	167.1	165.8	164.5	165.8	171.1	181.8	195.2	189.9	191.2	188.5	159.1
17.5°	175.2	179.2	181.8	183.2	188.5	188.5	191.2	189.9	195.2	199.2	181.8
20°	203.2	200.6	203.2	212.6	226.0	227.3	223.3	223.3	226.0	227.3	193.9
22.5°	215.3	213.9	224.6	216.6	216.6	223.3	247.4	239.3	239.3	236.7	208.6
25°	279.4	284.8	295.5	308.9	341.0	350.3	377.1	347.6	351.6	310.2	264.7
27.5°	335.6	339.6	402.5	458.6	484.0	470.6	493.4	438.6	443.9	449.3	386.4
30°	353.0	361.0	451.9	493.4	526.8	500.1	529.5	457.3	453.3	484.0	458.6
32.5°	339.6	347.6	443.9	461.3	496.1	595.0	557.6	441.2	429.2	443.9	474.7
35°	373.0	378.4	435.9	394.4	426.5	831.7	730.0	514.8	490.7	409.1	454.6
37.5°	447.9	447.9	516.1	545.5	569.6	981.4	958.7	640.5	621.7	478.7	525.5
40°	542.8	540.2	624.4	644.5	655.2	889.1	1159.2	816.9	775.5	562.9	684.6
42.5°	600.3	595.0	663.2	684.6	684.6	752.8	1311.7	994.8	898.5	656.5	837.0
45°	623.1	628.4	716.7	689.9	710.0	772.8	1474.8	1240.8	1105.8	770.1	970.7
47.5°	564.2	572.3	699.3	702.0	600.3	617.7	1322.4	1288.9	1178.0	825.0	1013.5
50°	692.6	697.9	743.4	712.7	663.2	782.2	1575.1	1656.6	1608.5	1021.5	1069.7
52.5°	950.7	974.7	1017.5	1044.2	1029.5	1314.3	2112.6	2097.9	2057.7	1533.6	1460.1
55°	1231.4	1251.5	1311.7	1473.4	1596.5	1968.2	2627.3	2934.9	2932.2	2491.0	2275.7
57.5°	1486.8	1488.2	1496.2	1695.4	1885.3	2569.8	3441.6	4571.4	4673.0	3979.1	3258.4
60°	1708.8	1704.8	1636.6	1814.4	2045.7	3186.2	4436.4	5931.2	5951.3	5059.5	3779.9
62.5°	1768.9	1756.9	1658.0	1823.8	2021.6	3198.3	4690.4	5769.4	5746.7	5135.7	3848.1
65°	1716.8	1704.8	1579.1	1727.5	1821.1	2906.8	4332.1	4961.8	4924.4	4691.8	3663.6
67.5°	1639.2	1647.3	1522.9	1636.6	1700.7	2726.3	3955.0	4269.2	4258.6	4372.2	3509.8
70°	1526.9	1533.6	1420.0	1560.4	1653.9	2611.3	3594.0	3935.0	3916.3	4083.4	3283.8
72.5°	1530.9	1551.0	1416.0	1521.6	1619.2	2453.5	3430.9	3820.0	3765.2	3790.6	3012.4
75°	1541.6	1568.4	1425.3	1520.2	1611.2	2396.0	3412.2	3829.4	3759.8	3685.0	2909.5
77.5°	1545.6	1584.4	1430.7	1535.0	1613.8	2317.1	3369.4	3782.6	3717.0	3583.3	2787.8
80°	1513.6	1555.0	1407.9	1536.3	1596.5	2160.7	3261.1	3774.5	3725.1	3570.0	2738.3
82.5°	1449.4	1490.8	1363.8	1469.4	1563.0	2001.6	3108.7	3618.1	3615.4	3441.6	2634.0
85°	1309.0	1354.4	1258.2	1355.8	1470.8	1790.3	2801.2	3352.0	3425.6	3285.2	2493.6
87.5°	1173.9	1219.4	1168.6	1223.4	1339.7	1556.3	2406.7	2893.4	3031.1	2914.8	2142.0
90°	1020.2	1067.0	1025.5	1004.1	1097.7	1242.1	1924.0	2250.3	2380.0	2309.1	1576.4
92.5°	816.9	857.1	818.3	768.8	825.0	911.9	1429.3	1575.1	1605.8	1537.6	1033.6
95°	617.7	647.1	612.4	562.9	569.6	624.4	985.4	1032.2	1024.2	942.6	656.5
97.5°	429.2	446.6	423.8	389.1	401.1	435.9	652.5	647.1	647.1	576.3	429.2
100°	298.2	304.9	294.2	278.1	287.5	310.2	438.6	437.2	423.8	389.1	312.9
102.5°	236.7	238.0	227.3	216.6	211.3	232.6	316.9	315.5	318.2	302.2	244.7
105°	208.6	207.2	197.9	188.5	177.8	199.2	251.4	262.1	260.7	247.4	209.9
107.5°	191.2	189.9	180.5	172.5	163.1	181.8	217.9	232.6	231.3	230.0	197.9
110°	177.8	176.5	168.5	160.4	152.4	173.8	204.6	227.3	227.3	227.3	200.6



REPORT NUMBER: P588512  
 CATALOG NUMBER: GAT-CA6-LED-70-760-U-33-5-X-X

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	168.5	168.5	161.8	155.1	148.4	172.5	196.5	223.3	223.3	230.0	209.9
115°	163.1	161.8	156.4	152.4	147.1	173.8	193.9	220.6	222.0	231.3	208.6
117.5°	159.1	157.8	153.8	148.4	145.7	171.1	195.2	226.0	224.6	239.3	204.6
120°	152.4	149.8	144.4	139.1	136.4	157.8	189.9	219.3	216.6	223.3	188.5
122.5°	147.1	139.1	129.7	125.7	125.7	143.1	177.8	197.9	195.2	189.9	169.8
125°	135.0	127.0	119.0	117.7	119.0	133.7	169.8	181.8	183.2	179.2	160.4
127.5°	121.7	116.3	112.3	112.3	115.0	131.0	167.1	175.2	175.2	167.1	152.4
130°	115.0	113.7	111.0	111.0	116.3	132.4	163.1	165.8	165.8	155.1	148.4
132.5°	112.3	109.6	107.0	107.0	112.3	128.4	152.4	157.8	156.4	145.7	140.4
135°	107.0	105.6	103.0	103.0	109.6	125.7	143.1	148.4	147.1	133.7	129.7
137.5°	104.3	101.6	101.6	101.6	108.3	124.3	135.0	139.1	137.7	124.3	120.3
140°	100.3	98.9	96.3	96.3	105.6	120.3	127.0	128.4	127.0	116.3	112.3
142.5°	93.6	92.3	90.9	93.6	103.0	113.7	119.0	119.0	117.7	111.0	105.6
145°	89.6	88.2	86.9	93.6	101.6	107.0	112.3	108.3	108.3	104.3	98.9
147.5°	85.6	84.2	84.2	89.6	96.3	96.3	100.3	98.9	100.3	98.9	93.6
150°	77.5	76.2	76.2	80.2	81.6	81.6	85.6	85.6	85.6	85.6	81.6
152.5°	68.2	66.9	68.2	69.5	69.5	69.5	72.2	73.5	73.5	72.2	70.9
155°	58.8	58.8	58.8	60.2	60.2	58.8	62.8	62.8	62.8	62.8	61.5
157.5°	52.1	52.1	52.1	52.1	52.1	50.8	53.5	53.5	54.8	53.5	53.5
160°	45.5	44.1	44.1	44.1	44.1	42.8	44.1	44.1	44.1	45.5	45.5
162.5°	36.1	34.8	34.8	34.8	34.8	32.1	34.8	33.4	34.8	34.8	36.1
165°	29.4	28.1	28.1	28.1	26.7	25.4	26.7	25.4	25.4	25.4	26.7
167.5°	22.7	22.7	21.4	22.7	21.4	18.7	18.7	17.4	17.4	17.4	17.4
170°	17.4	16.0	14.7	16.0	14.7	12.0	12.0	10.7	10.7	9.4	9.4
172.5°	12.0	10.7	9.4	10.7	9.4	6.7	6.7	4.0	4.0	4.0	4.0
175°	10.7	9.4	8.0	9.4	8.0	5.3	4.0	2.7	2.7	2.7	2.7
177.5°	10.7	9.4	8.0	9.4	8.0	5.3	4.0	2.7	2.7	2.7	2.7
180°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
2.5°	80.2	78.9	77.5	80.2	78.9	80.2	81.6	82.9	82.9	81.6	81.6
5°	92.3	90.9	88.2	86.9	84.2	84.2	84.2	86.9	86.9	85.6	86.9
7.5°	109.6	107.0	103.0	100.3	96.3	96.3	94.9	97.6	98.9	96.3	97.6
10°	123.0	121.7	116.3	112.3	108.3	107.0	107.0	108.3	108.3	107.0	107.0
12.5°	135.0	132.4	127.0	123.0	117.7	116.3	116.3	117.7	117.7	116.3	116.3
15°	152.4	144.4	139.1	135.0	129.7	128.4	127.0	128.4	129.7	127.0	127.0
17.5°	176.5	167.1	155.1	144.4	139.1	141.7	143.1	144.4	143.1	139.1	139.1
20°	189.9	184.5	168.5	160.4	153.8	153.8	153.8	153.8	153.8	152.4	153.8
22.5°	199.2	191.2	171.1	165.8	161.8	164.5	167.1	168.5	168.5	167.1	167.1
25°	242.0	212.6	192.5	188.5	183.2	184.5	181.8	181.8	183.2	181.8	184.5
27.5°	332.9	284.8	239.3	223.3	219.3	219.3	222.0	222.0	222.0	222.0	220.6
30°	399.8	343.6	268.8	247.4	244.7	256.7	263.4	268.8	266.1	262.1	262.1
32.5°	410.5	349.0	274.1	266.1	272.8	282.1	288.8	292.8	296.8	295.5	294.2
35°	387.7	322.2	270.1	280.8	286.1	291.5	292.8	290.1	302.2	307.5	308.9
37.5°	433.2	361.0	314.2	322.2	315.5	310.2	312.9	314.2	330.3	338.3	346.3
40°	553.5	435.9	357.0	353.0	349.0	361.0	377.1	385.1	383.7	378.4	379.7
42.5°	669.9	509.4	402.5	401.1	399.8	421.2	446.6	445.2	433.2	423.8	423.8
45°	788.9	580.3	474.7	476.0	473.3	481.3	488.0	482.7	484.0	486.7	489.4
47.5°	862.4	644.5	520.1	516.1	498.7	514.8	533.5	521.5	517.4	510.8	513.4
50°	879.8	660.5	546.9	576.3	560.2	548.2	528.1	520.1	534.8	545.5	553.5
52.5°	1143.2	815.6	683.2	730.0	708.6	665.9	661.8	648.5	664.5	665.9	675.2
55°	1916.0	1307.6	941.3	986.8	988.1	973.4	1040.2	1002.8	969.4	954.7	949.3
57.5°	3020.4	2021.6	1218.1	1275.6	1330.4	1382.5	1473.4	1397.2	1301.0	1288.9	1302.3
60°	3868.1	2854.6	1553.7	1715.5	1789.0	1791.7	1803.7	1728.8	1670.0	1675.3	1694.1
62.5°	4050.0	3549.9	1978.9	2045.7	2052.4	2002.9	2024.3	2072.5	1989.6	1924.0	1941.4
65°	3928.3	3825.3	2117.9	1944.1	1933.4	1941.4	2087.2	2220.9	2053.7	1887.9	1887.9
67.5°	3693.0	3615.4	1976.2	1748.9	1778.3	1869.2	2053.7	2120.6	1942.8	1766.3	1766.3
70°	3441.6	3286.5	1817.1	1593.8	1666.0	1771.6	1891.9	1897.3	1793.0	1667.3	1659.3
72.5°	3170.2	3029.8	1748.9	1548.3	1581.7	1600.5	1666.0	1707.4	1695.4	1613.8	1612.5
75°	3090.0	2976.3	1747.5	1526.9	1506.9	1500.2	1545.6	1635.2	1676.7	1628.5	1631.2
77.5°	2968.3	2900.1	1666.0	1437.3	1416.0	1416.0	1440.0	1512.2	1575.1	1555.0	1561.7
80°	2884.0	2781.1	1541.6	1339.7	1310.3	1314.3	1317.0	1366.5	1425.3	1428.0	1428.0
82.5°	2722.3	2528.4	1353.1	1194.0	1173.9	1179.3	1169.9	1198.0	1214.1	1234.1	1230.1
85°	2456.2	2182.1	1143.2	1034.9	1002.8	992.1	984.1	985.4	994.8	990.8	974.7
87.5°	2057.7	1730.2	911.9	849.0	811.6	784.9	774.2	760.8	759.5	744.7	750.1
90°	1518.9	1187.3	676.6	653.8	627.1	599.0	584.3	570.9	560.2	545.5	540.2
92.5°	990.8	764.8	494.7	482.7	465.3	449.3	442.6	435.9	433.2	421.2	425.2
95°	619.1	517.4	371.7	358.3	349.0	345.0	346.3	347.6	345.0	331.6	335.6
97.5°	413.2	374.4	290.1	280.8	271.4	270.1	271.4	274.1	275.4	266.1	268.8
100°	304.9	287.5	238.0	231.3	223.3	220.6	222.0	224.6	226.0	217.9	219.3
102.5°	242.0	234.0	205.9	203.2	193.9	191.2	193.9	195.2	196.5	191.2	191.2
105°	212.6	212.6	189.9	188.5	181.8	179.2	180.5	181.8	183.2	177.8	177.8
107.5°	204.6	205.9	183.2	184.5	180.5	179.2	181.8	184.5	183.2	179.2	177.8
110°	211.3	213.9	183.2	187.2	188.5	191.2	196.5	197.9	197.9	195.2	196.5



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	217.9	222.0	180.5	189.9	199.2	205.9	215.3	220.6	217.9	216.6	217.9
115°	212.6	215.3	168.5	183.2	200.6	209.9	212.6	212.6	205.9	205.9	207.2
117.5°	205.9	211.3	156.4	168.5	180.5	188.5	187.2	183.2	175.2	172.5	180.5
120°	191.2	207.2	149.8	152.4	153.8	156.4	152.4	148.4	141.7	140.4	145.7
122.5°	176.5	191.2	137.7	135.0	133.7	133.7	132.4	131.0	127.0	128.4	133.7
125°	164.5	172.5	125.7	121.7	120.3	121.7	121.7	121.7	119.0	116.3	116.3
127.5°	155.1	157.8	119.0	113.7	112.3	112.3	112.3	113.7	112.3	108.3	108.3
130°	149.8	148.4	115.0	105.6	104.3	105.6	105.6	107.0	104.3	101.6	101.6
132.5°	139.1	136.4	109.6	100.3	98.9	100.3	100.3	100.3	97.6	94.9	94.9
135°	127.0	124.3	103.0	93.6	92.3	93.6	93.6	94.9	92.3	89.6	89.6
137.5°	117.7	115.0	96.3	88.2	86.9	86.9	88.2	88.2	86.9	84.2	84.2
140°	109.6	107.0	89.6	82.9	80.2	81.6	81.6	81.6	80.2	77.5	77.5
142.5°	103.0	101.6	82.9	76.2	73.5	74.9	74.9	76.2	73.5	70.9	70.9
145°	97.6	94.9	77.5	69.5	68.2	68.2	68.2	69.5	66.9	64.2	64.2
147.5°	92.3	89.6	70.9	62.8	61.5	61.5	61.5	61.5	60.2	57.5	56.2
150°	81.6	80.2	65.5	57.5	54.8	54.8	54.8	53.5	50.8	48.1	48.1
152.5°	69.5	68.2	57.5	50.8	48.1	48.1	46.8	46.8	44.1	42.8	41.4
155°	60.2	60.2	52.1	45.5	42.8	41.4	40.1	40.1	38.8	37.4	36.1
157.5°	53.5	52.1	46.8	41.4	36.1	36.1	34.8	34.8	33.4	32.1	30.8
160°	45.5	45.5	40.1	34.8	30.8	29.4	29.4	28.1	26.7	25.4	25.4
162.5°	36.1	36.1	32.1	28.1	24.1	24.1	22.7	22.7	21.4	20.1	18.7
165°	25.4	25.4	24.1	21.4	18.7	17.4	17.4	17.4	16.0	14.7	14.7
167.5°	17.4	17.4	16.0	14.7	13.4	12.0	13.4	13.4	12.0	10.7	10.7
170°	9.4	9.4	8.0	8.0	6.7	6.7	8.0	9.4	8.0	6.7	5.3
172.5°	4.0	4.0	4.0	4.0	2.7	4.0	5.3	6.7	5.3	4.0	4.0
175°	2.7	2.7	4.0	4.0	2.7	4.0	5.3	6.7	5.3	4.0	4.0
177.5°	2.7	2.7	4.0	4.0	2.7	4.0	5.3	6.7	5.3	4.0	4.0
180°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3

(END OF REPORT)