

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: P588476

Luminaire Tested: **GAT-CA6-LED-60-730-U-33-5-X-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588476
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-60-730-U-33-5-X-X
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8841 lumens
Efficiency: N/A
Efficacy: 137.5 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

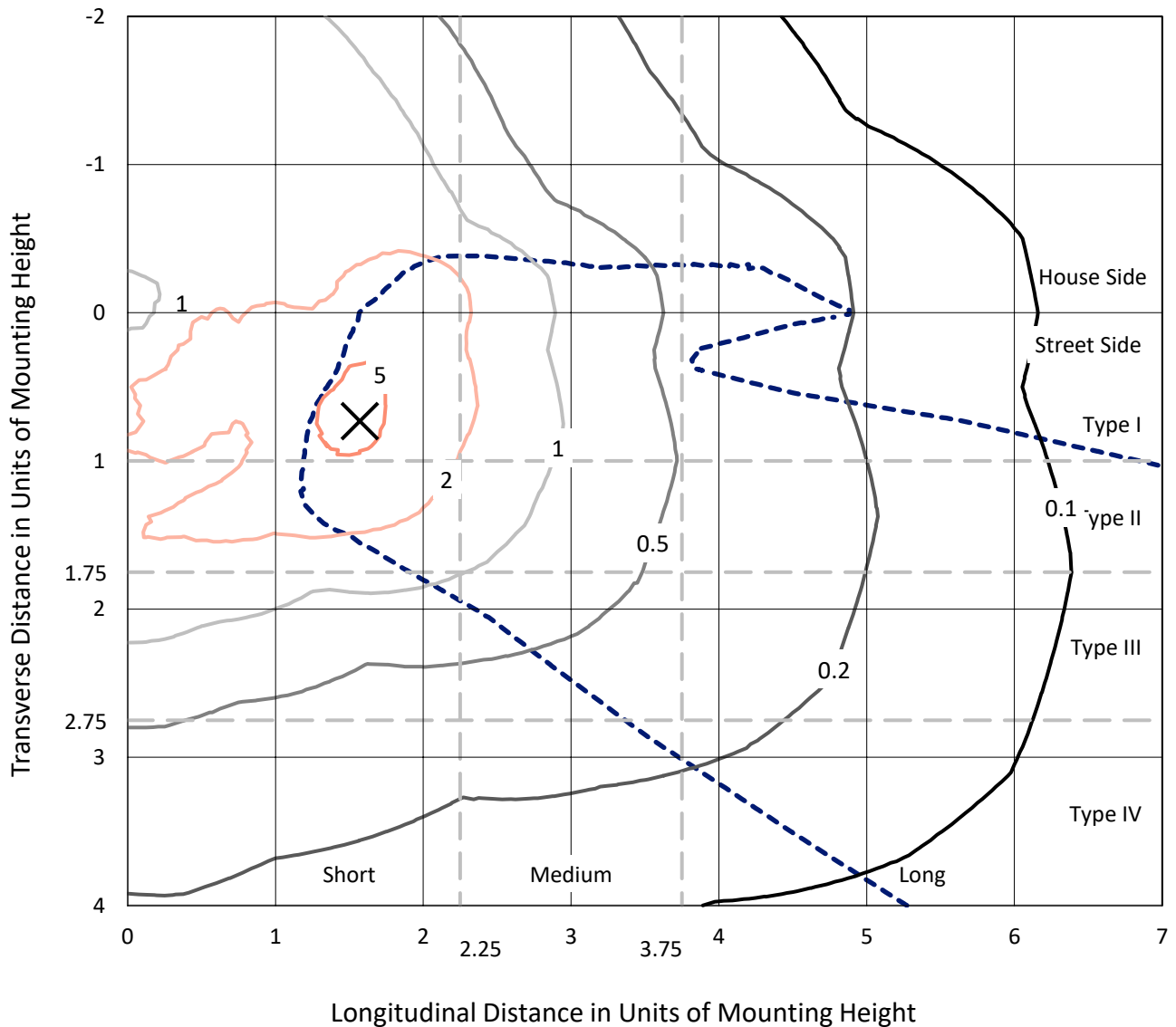
Input Watts (W): 64.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P588476
 CATALOG NUMBER: GAT-CA6-LED-60-730-U-33-5-X-X

Iso-Footcandle Lines of Horizontal Illumination

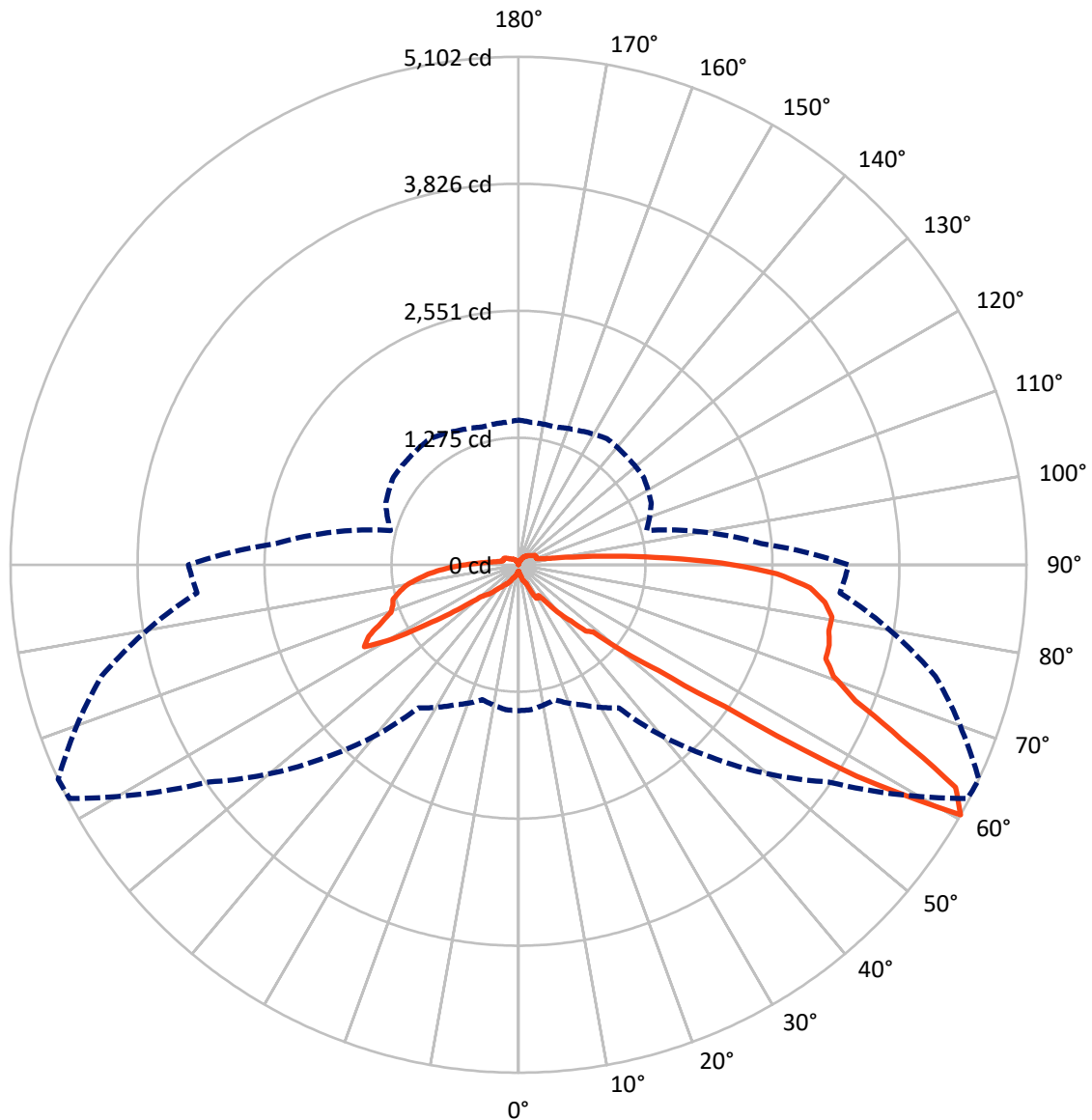
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P588476
CATALOG NUMBER: GAT-CA6-LED-60-730-U-33-5-X-X

Luminous Intensity Polar Plot



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

REPORT NUMBER: P588476
 CATALOG NUMBER: GAT-CA6-LED-60-730-U-33-5-X-X

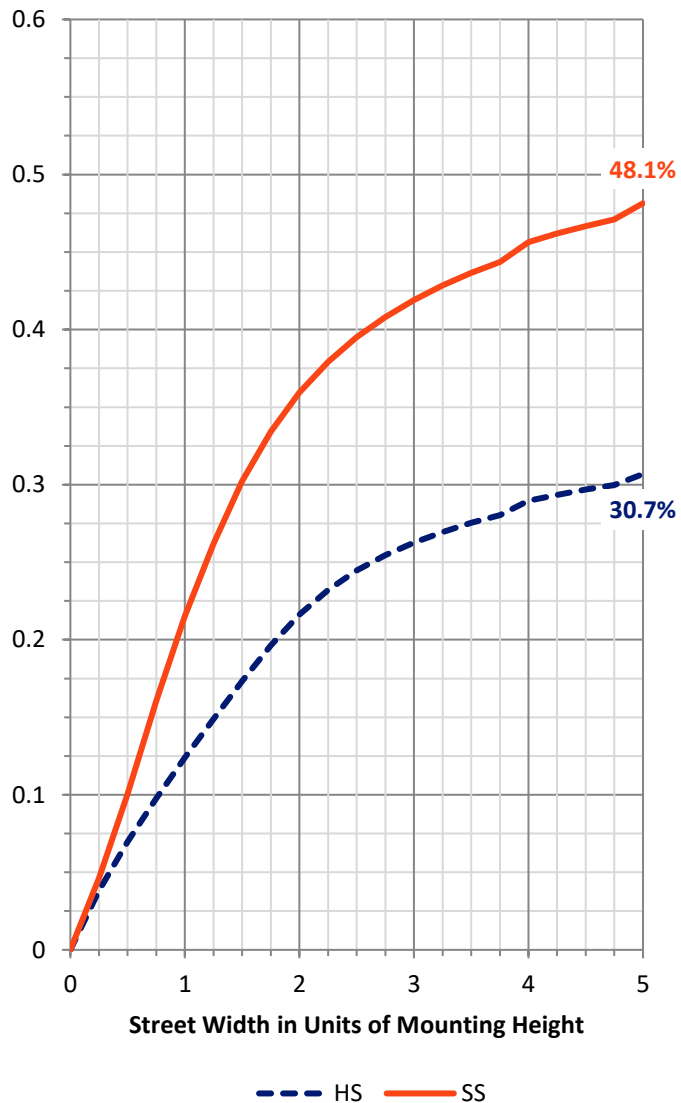
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2948.3	472.1	3420.4
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	4716.8	703.7	5420.6
	% Fixture	53.4	8.0	61.3
Total	Lumens	7665.1	1175.9	8841.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	0.1
10°-20°	37.8	0.4
20°-30°	108.0	1.2
30°-40°	232.5	2.6
40°-50°	440.0	5.0
50°-60°	1229.2	13.9
60°-70°	2191.4	24.8
70°-80°	1918.6	21.7
80°-90°	1499.1	17.0
90°-100°	566.8	6.4
100°-110°	194.9	2.2
110°-120°	159.4	1.8
120°-130°	107.1	1.2
130°-140°	73.5	0.8
140°-150°	46.2	0.5
150°-160°	21.4	0.2
160°-170°	6.1	0.1
170°-180°	0.5	0.0
0°-90°	7665.1	86.7
0°-180°	8841.0	100.0

Coefficient of Utilization



REPORT NUMBER: P588476

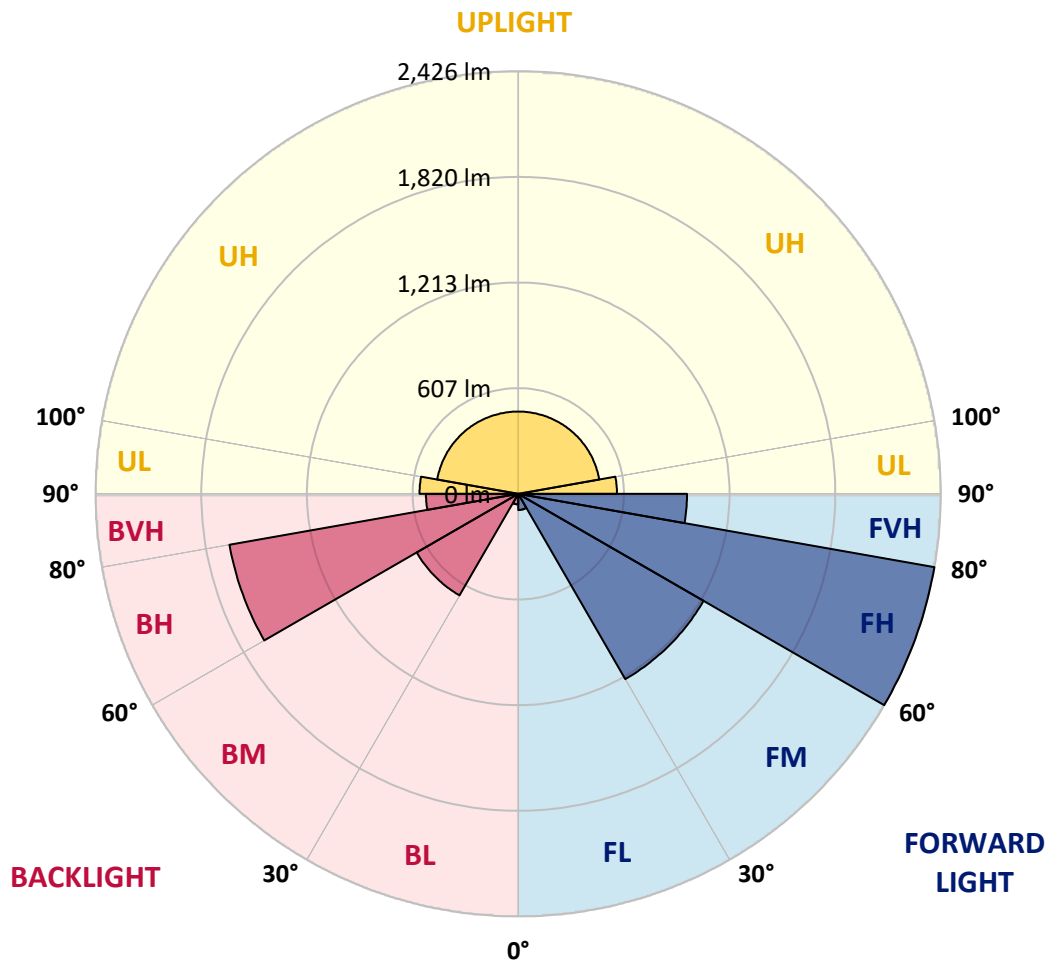
CATALOG NUMBER: GAT-CA6-LED-60-730-U-33-5-X-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	93.2	1.1			
FM (30°-60°)	1228.4	13.9			
FH (60°-80°)	2426.4	27.4			G2/5000
FVH (80°-90°)	969.0	11.0			G5
BL (0°-30°)	61.1	0.7	B0/110		
BM (30°-60°)	673.4	7.6	B1/1000		
BH (60°-80°)	1683.7	19.0	B3/2500		G3/2500
BVH (80°-90°)	530.1	6.0			G4/750
UL (90°-100°)	566.8	6.4		U4/1000	
UH (100°-180°)	472.1	5.3		U3/500	

BUG Rating: B3-U4-G5

Type III Short





REPORT NUMBER: P588476
 CATALOG NUMBER: GAT-CA6-LED-60-730-U-33-5-X-X

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
2.5°	77.9	75.7	73.4	73.4	72.2	71.1	71.1	68.8	69.9	68.8	68.8
5°	91.7	90.6	88.3	89.4	87.1	86.0	86.0	84.8	83.7	82.5	79.1
7.5°	106.6	106.6	107.7	108.9	105.5	102.0	100.9	98.6	98.6	97.4	95.1
10°	122.6	121.5	116.9	116.9	114.6	112.3	113.5	112.3	112.3	112.3	107.7
12.5°	127.2	126.1	122.6	122.6	122.6	121.5	126.1	124.9	126.1	124.9	118.1
15°	143.3	142.1	141.0	142.1	146.7	155.9	167.3	162.8	163.9	161.6	136.4
17.5°	150.2	153.6	155.9	157.0	161.6	161.6	163.9	162.8	167.3	170.8	155.9
20°	174.2	171.9	174.2	182.2	193.7	194.9	191.4	191.4	193.7	194.9	166.2
22.5°	184.5	183.4	192.6	185.7	185.7	191.4	212.1	205.2	205.2	202.9	178.8
25°	239.6	244.1	253.3	264.8	292.3	300.3	323.2	298.0	301.5	265.9	227.0
27.5°	287.7	291.1	345.0	393.2	414.9	403.5	423.0	376.0	380.5	385.1	331.3
30°	302.6	309.5	387.4	423.0	451.6	428.7	453.9	392.0	388.6	414.9	393.2
32.5°	291.1	298.0	380.5	395.4	425.2	510.1	478.0	378.3	367.9	380.5	406.9
35°	319.8	324.4	373.7	338.1	365.6	713.0	625.8	441.3	420.7	350.7	389.7
37.5°	384.0	384.0	442.4	467.7	488.3	841.3	821.8	549.0	533.0	410.3	450.5
40°	465.4	463.1	535.3	552.5	561.6	762.2	993.8	700.3	664.8	482.6	586.9
42.5°	514.7	510.1	568.5	586.9	586.9	645.3	1124.4	852.8	770.3	562.8	717.5
45°	534.1	538.7	614.4	591.5	608.6	662.5	1264.3	1063.7	947.9	660.2	832.2
47.5°	483.7	490.6	599.5	601.8	514.7	529.6	1133.6	1105.0	1009.8	707.2	868.8
50°	593.7	598.3	637.3	610.9	568.5	670.5	1350.2	1420.2	1378.9	875.7	917.0
52.5°	815.0	835.6	872.3	895.2	882.6	1126.7	1811.0	1798.4	1764.0	1314.7	1251.7
55°	1055.7	1072.9	1124.4	1263.1	1368.6	1687.2	2252.3	2516.0	2513.7	2135.4	1950.9
57.5°	1274.6	1275.7	1282.6	1453.4	1616.2	2203.0	2950.4	3918.9	4006.0	3411.2	2793.3
60°	1464.9	1461.4	1403.0	1555.4	1753.7	2731.4	3803.2	5084.6	5101.8	4337.3	3240.4
62.5°	1516.5	1506.1	1421.3	1563.4	1733.1	2741.8	4020.9	4945.9	4926.5	4402.6	3298.8
65°	1471.7	1461.4	1353.7	1480.9	1561.2	2491.9	3713.8	4253.6	4221.5	4022.1	3140.6
67.5°	1405.3	1412.1	1305.5	1403.0	1458.0	2337.1	3390.5	3659.9	3650.7	3748.1	3008.8
70°	1309.0	1314.7	1217.3	1337.6	1417.9	2238.6	3081.0	3373.3	3357.3	3500.6	2815.1
72.5°	1312.4	1329.6	1213.8	1304.4	1388.1	2103.3	2941.2	3274.8	3227.8	3249.5	2582.4
75°	1321.6	1344.5	1221.9	1303.3	1381.2	2054.0	2925.2	3282.8	3223.2	3159.0	2494.2
77.5°	1325.0	1358.3	1226.5	1315.9	1383.5	1986.4	2888.5	3242.7	3186.5	3071.9	2389.9
80°	1297.5	1333.1	1207.0	1317.0	1368.6	1852.3	2795.6	3235.8	3193.4	3060.4	2347.5
82.5°	1242.5	1278.0	1169.1	1259.7	1339.9	1715.9	2665.0	3101.7	3099.4	2950.4	2258.1
85°	1122.2	1161.1	1078.6	1162.3	1260.8	1534.8	2401.3	2873.6	2936.6	2816.3	2137.7
87.5°	1006.4	1045.4	1001.8	1048.8	1148.5	1334.2	2063.2	2480.4	2598.5	2498.8	1836.2
90°	874.6	914.7	879.2	860.8	941.0	1064.8	1649.4	1929.1	2040.3	1979.5	1351.4
92.5°	700.3	734.7	701.5	659.1	707.2	781.7	1225.3	1350.2	1376.6	1318.2	886.0
95°	529.6	554.8	525.0	482.6	488.3	535.3	844.8	884.9	878.0	808.1	562.8
97.5°	367.9	382.8	363.4	333.6	343.9	373.7	559.4	554.8	554.8	494.0	367.9
100°	255.6	261.3	252.2	238.4	246.4	265.9	376.0	374.8	363.4	333.6	268.2
102.5°	202.9	204.0	194.9	185.7	181.1	199.4	271.7	270.5	272.8	259.0	209.8
105°	178.8	177.7	169.6	161.6	152.4	170.8	215.5	224.7	223.5	212.1	180.0
107.5°	163.9	162.8	154.7	147.9	139.8	155.9	186.8	199.4	198.3	197.2	169.6
110°	152.4	151.3	144.4	137.5	130.7	149.0	175.4	194.9	194.9	194.9	171.9



REPORT NUMBER: P588476
 CATALOG NUMBER: GAT-CA6-LED-60-730-U-33-5-X-X

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	144.4	144.4	138.7	133.0	127.2	147.9	168.5	191.4	191.4	197.2	180.0
115°	139.8	138.7	134.1	130.7	126.1	149.0	166.2	189.1	190.3	198.3	178.8
117.5°	136.4	135.3	131.8	127.2	124.9	146.7	167.3	193.7	192.6	205.2	175.4
120°	130.7	128.4	123.8	119.2	116.9	135.3	162.8	188.0	185.7	191.4	161.6
122.5°	126.1	119.2	111.2	107.7	107.7	122.6	152.4	169.6	167.3	162.8	145.6
125°	115.8	108.9	102.0	100.9	102.0	114.6	145.6	155.9	157.0	153.6	137.5
127.5°	104.3	99.7	96.3	96.3	98.6	112.3	143.3	150.2	150.2	143.3	130.7
130°	98.6	97.4	95.1	95.1	99.7	113.5	139.8	142.1	142.1	133.0	127.2
132.5°	96.3	94.0	91.7	91.7	96.3	110.0	130.7	135.3	134.1	124.9	120.4
135°	91.7	90.6	88.3	88.3	94.0	107.7	122.6	127.2	126.1	114.6	111.2
137.5°	89.4	87.1	87.1	87.1	92.8	106.6	115.8	119.2	118.1	106.6	103.2
140°	86.0	84.8	82.5	82.5	90.6	103.2	108.9	110.0	108.9	99.7	96.3
142.5°	80.2	79.1	77.9	80.2	88.3	97.4	102.0	102.0	100.9	95.1	90.6
145°	76.8	75.7	74.5	80.2	87.1	91.7	96.3	92.8	92.8	89.4	84.8
147.5°	73.4	72.2	72.2	76.8	82.5	82.5	86.0	84.8	86.0	84.8	80.2
150°	66.5	65.3	65.3	68.8	69.9	69.9	73.4	73.4	73.4	73.4	69.9
152.5°	58.5	57.3	58.5	59.6	59.6	59.6	61.9	63.0	63.0	61.9	60.7
155°	50.4	50.4	50.4	51.6	51.6	50.4	53.9	53.9	53.9	53.9	52.7
157.5°	44.7	44.7	44.7	44.7	44.7	43.6	45.8	45.8	47.0	45.8	45.8
160°	39.0	37.8	37.8	37.8	37.8	36.7	37.8	37.8	37.8	39.0	39.0
162.5°	30.9	29.8	29.8	29.8	29.8	27.5	29.8	28.7	29.8	29.8	30.9
165°	25.2	24.1	24.1	24.1	22.9	21.8	22.9	21.8	21.8	21.8	22.9
167.5°	19.5	19.5	18.3	19.5	18.3	16.0	16.0	14.9	14.9	14.9	14.9
170°	14.9	13.8	12.6	13.8	12.6	10.3	10.3	9.2	9.2	8.0	8.0
172.5°	10.3	9.2	8.0	9.2	8.0	5.7	5.7	3.4	3.4	3.4	3.4
175°	9.2	8.0	6.9	8.0	6.9	4.6	3.4	2.3	2.3	2.3	2.3
177.5°	9.2	8.0	6.9	8.0	6.9	4.6	3.4	2.3	2.3	2.3	2.3
180°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6



REPORT NUMBER: P588476
 CATALOG NUMBER: GAT-CA6-LED-60-730-U-33-5-X-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
2.5°	68.8	67.6	66.5	68.8	67.6	68.8	69.9	71.1	71.1	69.9	69.9
5°	79.1	77.9	75.7	74.5	72.2	72.2	72.2	74.5	74.5	73.4	74.5
7.5°	94.0	91.7	88.3	86.0	82.5	82.5	81.4	83.7	84.8	82.5	83.7
10°	105.5	104.3	99.7	96.3	92.8	91.7	91.7	92.8	92.8	91.7	91.7
12.5°	115.8	113.5	108.9	105.5	100.9	99.7	99.7	100.9	100.9	99.7	99.7
15°	130.7	123.8	119.2	115.8	111.2	110.0	108.9	110.0	111.2	108.9	108.9
17.5°	151.3	143.3	133.0	123.8	119.2	121.5	122.6	123.8	122.6	119.2	119.2
20°	162.8	158.2	144.4	137.5	131.8	131.8	131.8	131.8	131.8	130.7	131.8
22.5°	170.8	163.9	146.7	142.1	138.7	141.0	143.3	144.4	144.4	143.3	143.3
25°	207.5	182.2	165.1	161.6	157.0	158.2	155.9	155.9	157.0	155.9	158.2
27.5°	285.4	244.1	205.2	191.4	188.0	188.0	190.3	190.3	190.3	190.3	189.1
30°	342.7	294.6	230.4	212.1	209.8	220.1	225.8	230.4	228.1	224.7	224.7
32.5°	351.9	299.2	235.0	228.1	233.8	241.9	247.6	251.0	254.5	253.3	252.2
35°	332.4	276.2	231.5	240.7	245.3	249.9	251.0	248.7	259.0	263.6	264.8
37.5°	371.4	309.5	269.4	276.2	270.5	265.9	268.2	269.4	283.1	290.0	296.9
40°	474.5	373.7	306.0	302.6	299.2	309.5	323.2	330.1	329.0	324.4	325.5
42.5°	574.3	436.7	345.0	343.9	342.7	361.1	382.8	381.7	371.4	363.4	363.4
45°	676.3	497.5	406.9	408.1	405.8	412.6	418.4	413.8	414.9	417.2	419.5
47.5°	739.3	552.5	445.9	442.4	427.5	441.3	457.3	447.0	443.6	437.9	440.1
50°	754.2	566.2	468.8	494.0	480.3	470.0	452.8	445.9	458.5	467.7	474.5
52.5°	980.0	699.2	585.7	625.8	607.5	570.8	567.4	555.9	569.7	570.8	578.8
55°	1642.5	1121.0	806.9	845.9	847.1	834.4	891.8	859.7	831.0	818.4	813.8
57.5°	2589.3	1733.1	1044.2	1093.5	1140.5	1185.2	1263.1	1197.8	1115.3	1105.0	1116.4
60°	3316.0	2447.2	1331.9	1470.6	1533.6	1535.9	1546.3	1482.1	1431.6	1436.2	1452.3
62.5°	3471.9	3043.2	1696.4	1753.7	1759.5	1717.0	1735.4	1776.6	1705.6	1649.4	1664.3
65°	3367.6	3279.3	1815.6	1666.6	1657.4	1664.3	1789.3	1903.9	1760.6	1618.5	1618.5
67.5°	3165.9	3099.4	1694.1	1499.3	1524.5	1602.4	1760.6	1817.9	1665.5	1514.2	1514.2
70°	2950.4	2817.4	1557.7	1366.3	1428.2	1518.7	1621.9	1626.5	1537.1	1429.3	1422.5
72.5°	2717.7	2597.3	1499.3	1327.3	1356.0	1372.0	1428.2	1463.7	1453.4	1383.5	1382.3
75°	2648.9	2551.5	1498.1	1309.0	1291.8	1286.1	1325.0	1401.8	1437.4	1396.1	1398.4
77.5°	2544.6	2486.2	1428.2	1232.2	1213.8	1213.8	1234.5	1296.4	1350.2	1333.1	1338.8
80°	2472.4	2384.1	1321.6	1148.5	1123.3	1126.7	1129.0	1171.4	1221.9	1224.2	1224.2
82.5°	2333.7	2167.5	1160.0	1023.6	1006.4	1011.0	1002.9	1027.0	1040.8	1058.0	1054.5
85°	2105.6	1870.6	980.0	887.2	859.7	850.5	843.6	844.8	852.8	849.4	835.6
87.5°	1764.0	1483.2	781.7	727.9	695.8	672.8	663.7	652.2	651.1	638.4	643.0
90°	1302.1	1017.8	580.0	560.5	537.6	513.5	500.9	489.4	480.3	467.7	463.1
92.5°	849.4	655.6	424.1	413.8	398.9	385.1	379.4	373.7	371.4	361.1	364.5
95°	530.7	443.6	318.6	307.2	299.2	295.7	296.9	298.0	295.7	284.3	287.7
97.5°	354.2	320.9	248.7	240.7	232.7	231.5	232.7	235.0	236.1	228.1	230.4
100°	261.3	246.4	204.0	198.3	191.4	189.1	190.3	192.6	193.7	186.8	188.0
102.5°	207.5	200.6	176.5	174.2	166.2	163.9	166.2	167.3	168.5	163.9	163.9
105°	182.2	182.2	162.8	161.6	155.9	153.6	154.7	155.9	157.0	152.4	152.4
107.5°	175.4	176.5	157.0	158.2	154.7	153.6	155.9	158.2	157.0	153.6	152.4
110°	181.1	183.4	157.0	160.5	161.6	163.9	168.5	169.6	169.6	167.3	168.5



REPORT NUMBER: P588476
 CATALOG NUMBER: GAT-CA6-LED-60-730-U-33-5-X-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	186.8	190.3	154.7	162.8	170.8	176.5	184.5	189.1	186.8	185.7	186.8
115°	182.2	184.5	144.4	157.0	171.9	180.0	182.2	182.2	176.5	176.5	177.7
117.5°	176.5	181.1	134.1	144.4	154.7	161.6	160.5	157.0	150.2	147.9	154.7
120°	163.9	177.7	128.4	130.7	131.8	134.1	130.7	127.2	121.5	120.4	124.9
122.5°	151.3	163.9	118.1	115.8	114.6	114.6	113.5	112.3	108.9	110.0	114.6
125°	141.0	147.9	107.7	104.3	103.2	104.3	104.3	104.3	102.0	99.7	99.7
127.5°	133.0	135.3	102.0	97.4	96.3	96.3	96.3	97.4	96.3	92.8	92.8
130°	128.4	127.2	98.6	90.6	89.4	90.6	90.6	91.7	89.4	87.1	87.1
132.5°	119.2	116.9	94.0	86.0	84.8	86.0	86.0	86.0	83.7	81.4	81.4
135°	108.9	106.6	88.3	80.2	79.1	80.2	80.2	81.4	79.1	76.8	76.8
137.5°	100.9	98.6	82.5	75.7	74.5	74.5	75.7	75.7	74.5	72.2	72.2
140°	94.0	91.7	76.8	71.1	68.8	69.9	69.9	69.9	68.8	66.5	66.5
142.5°	88.3	87.1	71.1	65.3	63.0	64.2	64.2	65.3	63.0	60.7	60.7
145°	83.7	81.4	66.5	59.6	58.5	58.5	58.5	59.6	57.3	55.0	55.0
147.5°	79.1	76.8	60.7	53.9	52.7	52.7	52.7	52.7	51.6	49.3	48.1
150°	69.9	68.8	56.2	49.3	47.0	47.0	47.0	45.8	43.6	41.3	41.3
152.5°	59.6	58.5	49.3	43.6	41.3	41.3	40.1	40.1	37.8	36.7	35.5
155°	51.6	51.6	44.7	39.0	36.7	35.5	34.4	34.4	33.2	32.1	30.9
157.5°	45.8	44.7	40.1	35.5	30.9	30.9	29.8	29.8	28.7	27.5	26.4
160°	39.0	39.0	34.4	29.8	26.4	25.2	25.2	24.1	22.9	21.8	21.8
162.5°	30.9	30.9	27.5	24.1	20.6	20.6	19.5	19.5	18.3	17.2	16.0
165°	21.8	21.8	20.6	18.3	16.0	14.9	14.9	14.9	13.8	12.6	12.6
167.5°	14.9	14.9	13.8	12.6	11.5	10.3	11.5	11.5	10.3	9.2	9.2
170°	8.0	8.0	6.9	6.9	5.7	5.7	6.9	8.0	6.9	5.7	4.6
172.5°	3.4	3.4	3.4	3.4	2.3	3.4	4.6	5.7	4.6	3.4	3.4
175°	2.3	2.3	3.4	3.4	2.3	3.4	4.6	5.7	4.6	3.4	3.4
177.5°	2.3	2.3	3.4	3.4	2.3	3.4	4.6	5.7	4.6	3.4	3.4
180°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6

(END OF REPORT)