

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: P588380

Luminaire Tested: **GAT-CA6-LED-110-730-U-33-5-X-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588380
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-110-730-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: 14636 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B4 - U5 - G5

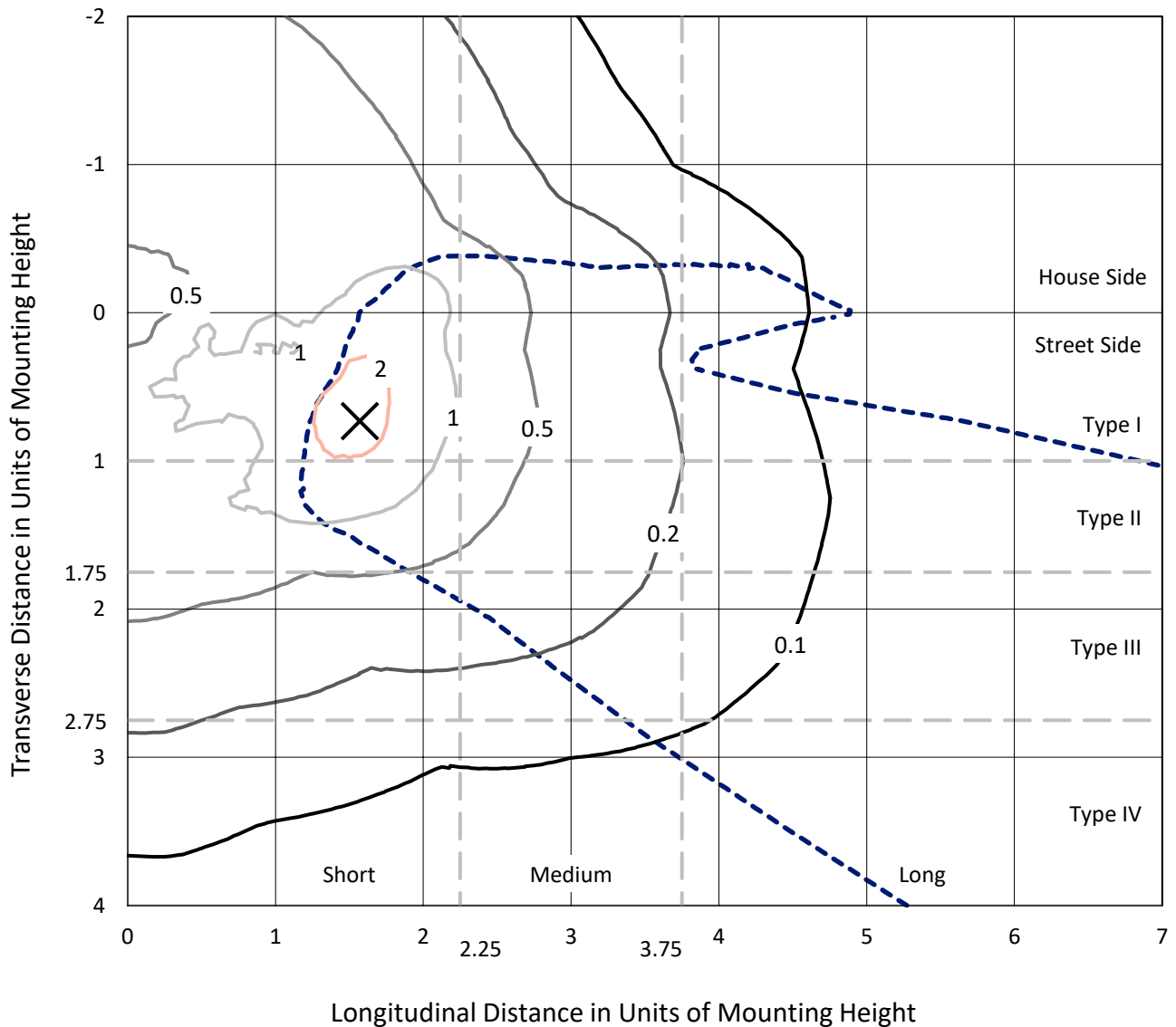
Input Watts (W): 112.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P588380
 CATALOG NUMBER: GAT-CA6-LED-110-730-U-33-5-X-X

Iso-Footcandle Lines of Horizontal Illumination

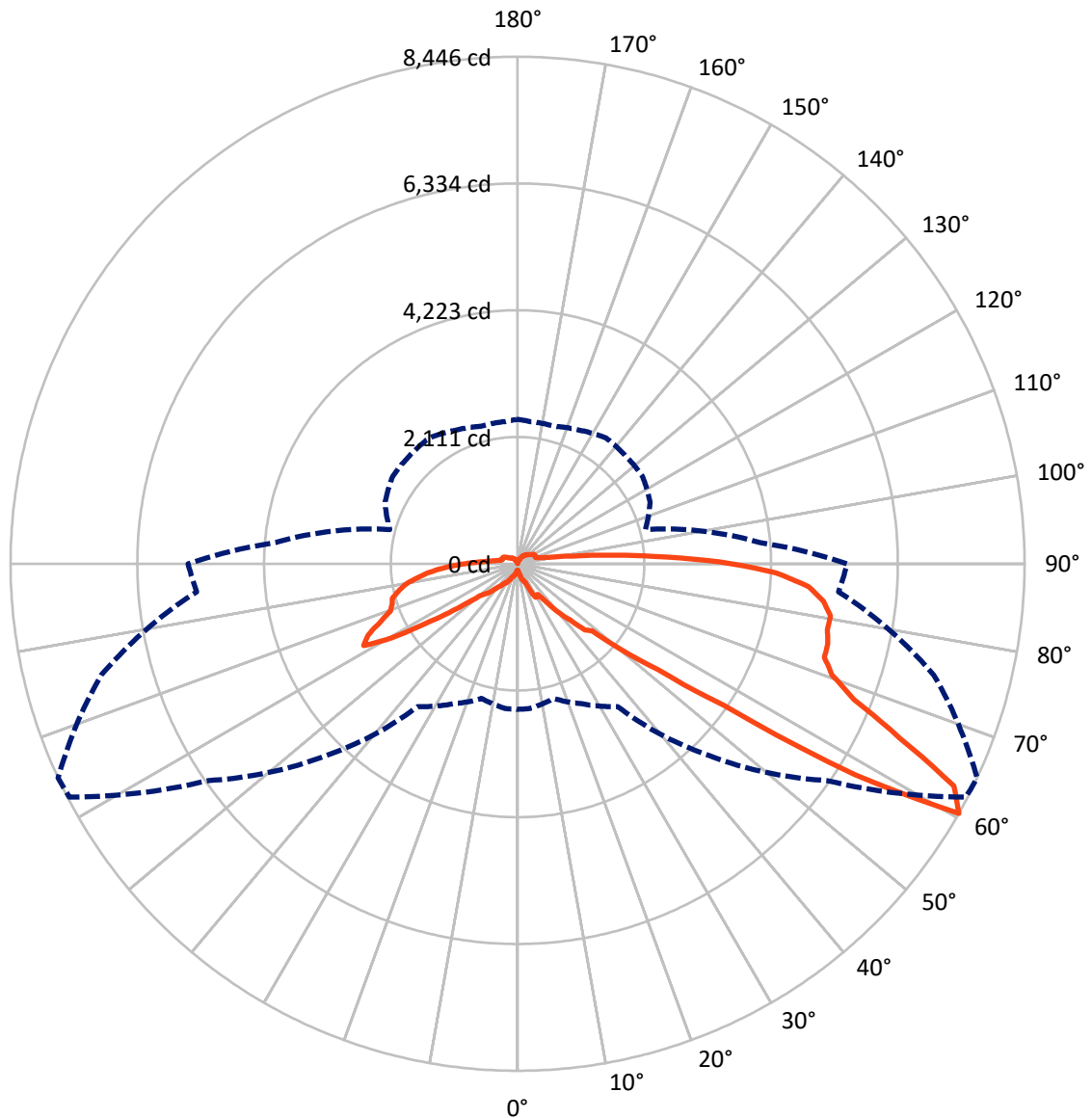
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P588380
CATALOG NUMBER: GAT-CA6-LED-110-730-U-33-5-X-X

Luminous Intensity Polar Plot



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

REPORT NUMBER: P588380
 CATALOG NUMBER: GAT-CA6-LED-110-730-U-33-5-X-X

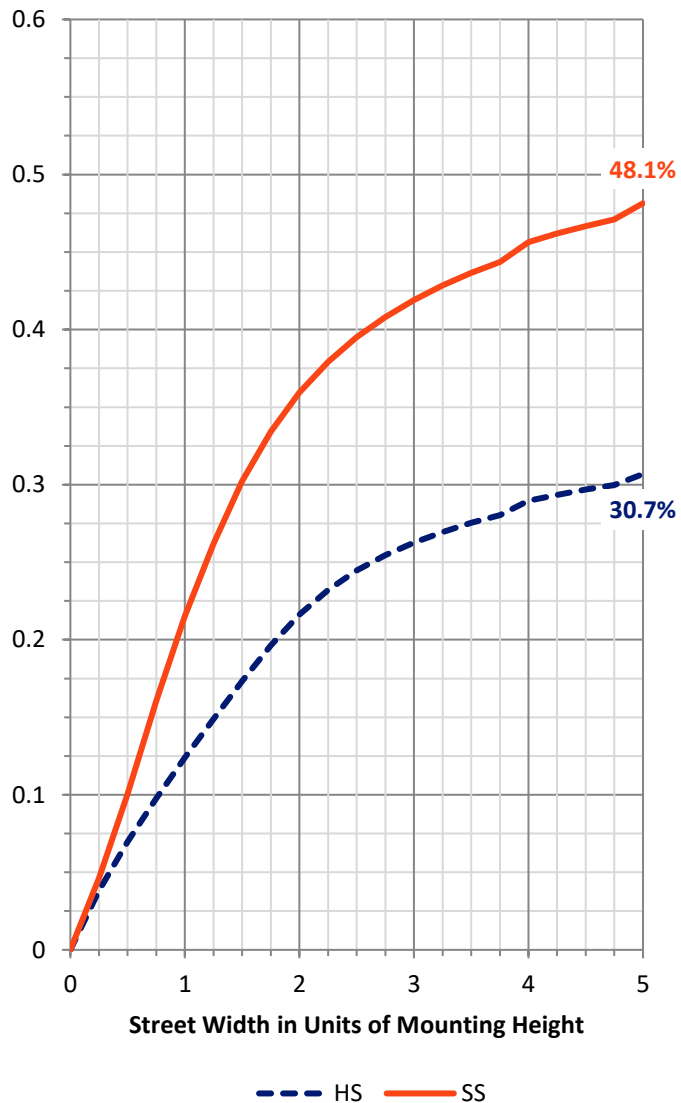
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4880.8	781.6	5662.4
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	7808.6	1165.0	8973.6
	% Fixture	53.4	8.0	61.3
Total	Lumens	12689.4	1946.7	14636.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.0	0.1
10°-20°	62.5	0.4
20°-30°	178.8	1.2
30°-40°	385.0	2.6
40°-50°	728.4	5.0
50°-60°	2034.9	13.9
60°-70°	3627.8	24.8
70°-80°	3176.2	21.7
80°-90°	2481.7	17.0
90°-100°	938.2	6.4
100°-110°	322.7	2.2
110°-120°	263.9	1.8
120°-130°	177.3	1.2
130°-140°	121.7	0.8
140°-150°	76.5	0.5
150°-160°	35.5	0.2
160°-170°	10.0	0.1
170°-180°	0.9	0.0
0°-90°	12689.4	86.7
0°-180°	14636.0	100.0

Coefficient of Utilization

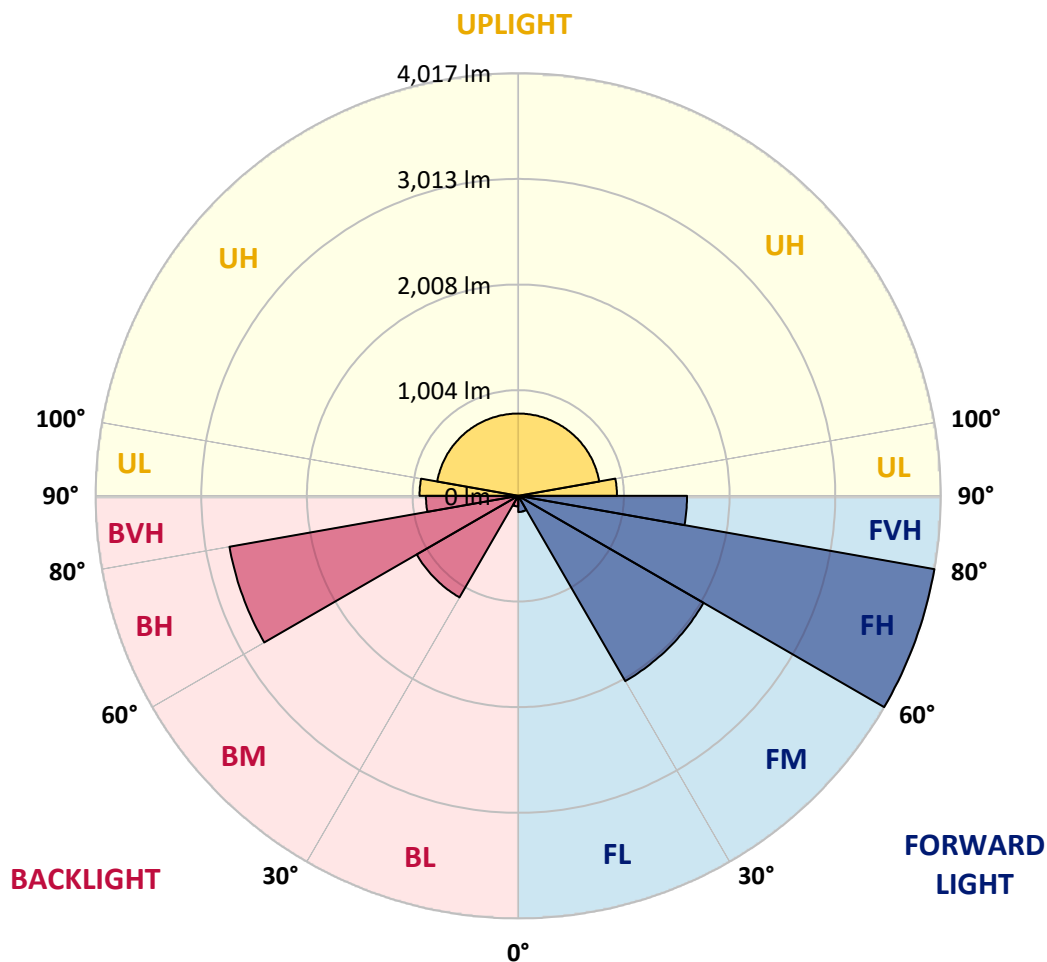


REPORT NUMBER: P588380
 CATALOG NUMBER: GAT-CA6-LED-110-730-U-33-5-X-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	154.2	1.1			
FM (30°-60°)	2033.5	13.9			
FH (60°-80°)	4016.8	27.4			G2/5000
FVH (80°-90°)	1604.1	11.0			G5
BL (0°-30°)	101.1	0.7	B0/110		
BM (30°-60°)	1114.8	7.6	B2/2500		
BH (60°-80°)	2787.3	19.0	B4/5000		G4/5000
BVH (80°-90°)	877.6	6.0			G5
UL (90°-100°)	938.2	6.4		U4/1000	
UH (100°-180°)	781.6	5.3		U4/1000	

BUG Rating: B4-U5-G5
 Type III Short





REPORT NUMBER: P588380
 CATALOG NUMBER: GAT-CA6-LED-110-730-U-33-5-X-X

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0
2.5°	129.0	125.2	121.4	121.4	119.5	117.6	117.6	113.9	115.7	113.9	113.9
5°	151.8	149.9	146.1	148.0	144.2	142.3	142.3	140.4	138.5	136.6	130.9
7.5°	176.5	176.5	178.4	180.3	174.6	168.9	167.0	163.2	163.2	161.3	157.5
10°	203.0	201.1	193.5	193.5	189.8	186.0	187.9	186.0	186.0	186.0	178.4
12.5°	210.6	208.7	203.0	203.0	203.0	201.1	208.7	206.8	208.7	206.8	195.4
15°	237.2	235.3	233.4	235.3	242.9	258.1	277.0	269.4	271.3	267.6	225.8
17.5°	248.6	254.3	258.1	260.0	267.6	267.6	271.3	269.4	277.0	282.7	258.1
20°	288.4	284.6	288.4	301.7	320.7	322.6	316.9	316.9	320.7	322.6	275.1
22.5°	305.5	303.6	318.8	307.4	307.4	316.9	351.0	339.7	339.7	335.9	296.0
25°	396.6	404.2	419.4	438.3	483.9	497.2	535.1	493.4	499.1	440.2	375.7
27.5°	476.3	482.0	571.2	650.9	686.9	667.9	700.2	622.4	630.0	637.6	548.4
30°	500.9	512.3	641.4	700.2	747.6	709.7	751.4	649.0	643.3	686.9	650.9
32.5°	482.0	493.4	630.0	654.6	704.0	844.4	791.3	626.2	609.1	630.0	673.6
35°	529.4	537.0	618.6	559.8	605.3	1180.3	1036.1	730.6	696.4	580.6	645.2
37.5°	635.7	635.7	732.4	774.2	808.3	1392.8	1360.5	908.9	882.4	679.3	745.7
40°	770.4	766.6	886.1	914.6	929.8	1261.9	1645.2	1159.4	1100.6	798.9	971.5
42.5°	852.0	844.4	941.2	971.5	971.5	1068.3	1861.5	1411.8	1275.1	931.7	1187.9
45°	884.3	891.8	1017.1	979.1	1007.6	1096.8	2093.0	1760.9	1569.3	1093.0	1377.6
47.5°	800.8	812.1	992.4	996.2	852.0	876.7	1876.7	1829.2	1671.7	1170.8	1438.3
50°	982.9	990.5	1055.0	1011.4	941.2	1110.1	2235.3	2351.0	2282.7	1449.7	1518.0
52.5°	1349.1	1383.3	1444.0	1482.0	1461.1	1865.3	2998.1	2977.2	2920.3	2176.5	2072.1
55°	1747.6	1776.1	1861.5	2091.1	2265.7	2793.2	3728.7	4165.1	4161.3	3535.1	3229.6
57.5°	2110.1	2112.0	2123.3	2406.1	2675.5	3647.1	4884.3	6487.7	6631.9	5647.1	4624.3
60°	2425.0	2419.4	2322.6	2575.0	2903.2	4521.8	6296.0	8417.5	8445.9	7180.3	5364.3
62.5°	2510.4	2493.4	2352.9	2588.2	2869.1	4538.9	6656.6	8187.9	8155.6	7288.4	5461.1
65°	2436.4	2419.4	2241.0	2451.6	2584.4	4125.2	6148.0	7041.8	6988.6	6658.5	5199.2
67.5°	2326.4	2337.8	2161.3	2322.6	2413.7	3869.1	5612.9	6058.8	6043.6	6204.9	4981.0
70°	2167.0	2176.5	2015.2	2214.4	2347.3	3705.9	5100.6	5584.4	5557.9	5795.1	4660.3
72.5°	2172.7	2201.1	2009.5	2159.4	2297.9	3482.0	4869.1	5421.3	5343.5	5379.5	4275.1
75°	2187.9	2225.8	2022.8	2157.5	2286.5	3400.4	4842.5	5434.5	5335.9	5229.6	4129.0
77.5°	2193.6	2248.6	2030.4	2178.4	2290.3	3288.4	4781.8	5368.1	5275.1	5085.4	3956.4
80°	2148.0	2206.8	1998.1	2180.3	2265.7	3066.4	4628.1	5356.7	5286.5	5066.4	3886.2
82.5°	2056.9	2115.8	1935.5	2085.4	2218.2	2840.6	4411.8	5134.7	5130.9	4884.3	3738.1
85°	1857.7	1922.2	1785.6	1924.1	2087.3	2540.8	3975.3	4757.1	4861.5	4662.2	3538.9
87.5°	1666.0	1730.6	1658.4	1736.2	1901.3	2208.7	3415.6	4106.3	4301.7	4136.6	3039.9
90°	1447.8	1514.2	1455.4	1425.0	1557.9	1762.8	2730.6	3193.6	3377.6	3277.0	2237.2
92.5°	1159.4	1216.3	1161.3	1091.1	1170.8	1294.1	2028.5	2235.3	2278.9	2182.2	1466.8
95°	876.7	918.4	869.1	798.9	808.3	886.1	1398.5	1464.9	1453.5	1337.8	931.7
97.5°	609.1	633.8	601.5	552.2	569.3	618.6	926.0	918.4	918.4	817.8	609.1
100°	423.2	432.6	417.5	394.7	408.0	440.2	622.4	620.5	601.5	552.2	444.0
102.5°	335.9	337.8	322.6	307.4	299.8	330.2	449.7	447.8	451.6	428.8	347.2
105°	296.0	294.1	280.8	267.6	252.4	282.7	356.7	371.9	370.0	351.0	297.9
107.5°	271.3	269.4	256.2	244.8	231.5	258.1	309.3	330.2	328.3	326.4	280.8
110°	252.4	250.5	239.1	227.7	216.3	246.7	290.3	322.6	322.6	322.6	284.6



REPORT NUMBER: P588380
 CATALOG NUMBER: GAT-CA6-LED-110-730-U-33-5-X-X

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	239.1	239.1	229.6	220.1	210.6	244.8	278.9	316.9	316.9	326.4	297.9
115°	231.5	229.6	222.0	216.3	208.7	246.7	275.1	313.1	315.0	328.3	296.0
117.5°	225.8	223.9	218.2	210.6	206.8	242.9	277.0	320.7	318.8	339.7	290.3
120°	216.3	212.5	204.9	197.3	193.5	223.9	269.4	311.2	307.4	316.9	267.6
122.5°	208.7	197.3	184.1	178.4	178.4	203.0	252.4	280.8	277.0	269.4	241.0
125°	191.7	180.3	168.9	167.0	168.9	189.8	241.0	258.1	260.0	254.3	227.7
127.5°	172.7	165.1	159.4	159.4	163.2	186.0	237.2	248.6	248.6	237.2	216.3
130°	163.2	161.3	157.5	157.5	165.1	187.9	231.5	235.3	235.3	220.1	210.6
132.5°	159.4	155.6	151.8	151.8	159.4	182.2	216.3	223.9	222.0	206.8	199.2
135°	151.8	149.9	146.1	146.1	155.6	178.4	203.0	210.6	208.7	189.8	184.1
137.5°	148.0	144.2	144.2	144.2	153.7	176.5	191.7	197.3	195.4	176.5	170.8
140°	142.3	140.4	136.6	136.6	149.9	170.8	180.3	182.2	180.3	165.1	159.4
142.5°	132.8	130.9	129.0	132.8	146.1	161.3	168.9	168.9	167.0	157.5	149.9
145°	127.1	125.2	123.3	132.8	144.2	151.8	159.4	153.7	153.7	148.0	140.4
147.5°	121.4	119.5	119.5	127.1	136.6	136.6	142.3	140.4	142.3	140.4	132.8
150°	110.1	108.2	108.2	113.9	115.7	115.7	121.4	121.4	121.4	121.4	115.7
152.5°	96.8	94.9	96.8	98.7	98.7	98.7	102.5	104.4	104.4	102.5	100.6
155°	83.5	83.5	83.5	85.4	85.4	83.5	89.2	89.2	89.2	89.2	87.3
157.5°	74.0	74.0	74.0	74.0	74.0	72.1	75.9	75.9	77.8	75.9	75.9
160°	64.5	62.6	62.6	62.6	62.6	60.7	62.6	62.6	62.6	64.5	64.5
162.5°	51.2	49.3	49.3	49.3	49.3	45.5	49.3	47.4	49.3	49.3	51.2
165°	41.7	39.8	39.8	39.8	38.0	36.1	38.0	36.1	36.1	36.1	38.0
167.5°	32.3	32.3	30.4	32.3	30.4	26.6	26.6	24.7	24.7	24.7	24.7
170°	24.7	22.8	20.9	22.8	20.9	17.1	17.1	15.2	15.2	13.3	13.3
172.5°	17.1	15.2	13.3	15.2	13.3	9.5	9.5	5.7	5.7	5.7	5.7
175°	15.2	13.3	11.4	13.3	11.4	7.6	5.7	3.8	3.8	3.8	3.8
177.5°	15.2	13.3	11.4	13.3	11.4	7.6	5.7	3.8	3.8	3.8	3.8
180°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6



REPORT NUMBER: P588380
 CATALOG NUMBER: GAT-CA6-LED-110-730-U-33-5-X-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0
2.5°	113.9	112.0	110.1	113.9	112.0	113.9	115.7	117.6	117.6	115.7	115.7
5°	130.9	129.0	125.2	123.3	119.5	119.5	119.5	123.3	123.3	121.4	123.3
7.5°	155.6	151.8	146.1	142.3	136.6	136.6	134.7	138.5	140.4	136.6	138.5
10°	174.6	172.7	165.1	159.4	153.7	151.8	151.8	153.7	153.7	151.8	151.8
12.5°	191.7	187.9	180.3	174.6	167.0	165.1	165.1	167.0	167.0	165.1	165.1
15°	216.3	204.9	197.3	191.7	184.1	182.2	180.3	182.2	184.1	180.3	180.3
17.5°	250.5	237.2	220.1	204.9	197.3	201.1	203.0	204.9	203.0	197.3	197.3
20°	269.4	261.9	239.1	227.7	218.2	218.2	218.2	218.2	218.2	216.3	218.2
22.5°	282.7	271.3	242.9	235.3	229.6	233.4	237.2	239.1	239.1	237.2	237.2
25°	343.5	301.7	273.2	267.6	260.0	261.9	258.1	258.1	260.0	258.1	261.9
27.5°	472.5	404.2	339.7	316.9	311.2	311.2	315.0	315.0	315.0	315.0	313.1
30°	567.4	487.7	381.4	351.0	347.2	364.3	373.8	381.4	377.6	371.9	371.9
32.5°	582.5	495.3	389.0	377.6	387.1	400.4	409.9	415.6	421.3	419.4	417.5
35°	550.3	457.3	383.3	398.5	406.1	413.7	415.6	411.8	428.8	436.4	438.3
37.5°	614.8	512.3	445.9	457.3	447.8	440.2	444.0	445.9	468.7	480.1	491.5
40°	785.6	618.6	506.6	500.9	495.3	512.3	535.1	546.5	544.6	537.0	538.9
42.5°	950.7	723.0	571.2	569.3	567.4	597.7	633.8	631.9	614.8	601.5	601.5
45°	1119.5	823.5	673.6	675.5	671.7	683.1	692.6	685.0	686.9	690.7	694.5
47.5°	1223.9	914.6	738.1	732.4	707.8	730.6	757.1	740.0	734.3	724.9	728.7
50°	1248.6	937.4	776.1	817.8	795.1	778.0	749.5	738.1	759.0	774.2	785.6
52.5°	1622.4	1157.5	969.6	1036.1	1005.7	945.0	939.3	920.3	943.1	945.0	958.3
55°	2719.2	1855.8	1335.9	1400.4	1402.3	1381.4	1476.3	1423.2	1375.7	1354.8	1347.2
57.5°	4286.5	2869.1	1728.7	1810.2	1888.0	1962.1	2091.1	1982.9	1846.3	1829.2	1848.2
60°	5489.6	4051.2	2204.9	2434.5	2538.9	2542.7	2559.8	2453.5	2370.0	2377.6	2404.2
62.5°	5747.6	5038.0	2808.4	2903.2	2912.7	2842.5	2872.9	2941.2	2823.5	2730.6	2755.2
65°	5575.0	5428.8	3005.7	2759.0	2743.8	2755.2	2962.1	3151.8	2914.6	2679.3	2679.3
67.5°	5241.0	5130.9	2804.6	2482.0	2523.7	2652.8	2914.6	3009.5	2757.1	2506.6	2506.6
70°	4884.3	4664.1	2578.8	2261.9	2364.3	2514.2	2685.0	2692.6	2544.6	2366.2	2354.8
72.5°	4499.1	4299.8	2482.0	2197.3	2244.8	2271.3	2364.3	2423.2	2406.1	2290.3	2288.4
75°	4385.2	4223.9	2480.1	2167.0	2138.5	2129.0	2193.6	2320.7	2379.5	2311.2	2315.0
77.5°	4212.5	4115.8	2364.3	2039.9	2009.5	2009.5	2043.6	2146.1	2235.3	2206.8	2216.3
80°	4093.0	3946.9	2187.9	1901.3	1859.6	1865.3	1869.1	1939.3	2022.8	2026.6	2026.6
82.5°	3863.4	3588.2	1920.3	1694.5	1666.0	1673.6	1660.3	1700.2	1723.0	1751.4	1745.7
85°	3485.8	3096.8	1622.4	1468.7	1423.2	1408.0	1396.6	1398.5	1411.8	1406.1	1383.3
87.5°	2920.3	2455.4	1294.1	1204.9	1151.8	1113.9	1098.7	1079.7	1077.8	1056.9	1064.5
90°	2155.6	1685.0	960.2	927.9	889.9	850.1	829.2	810.2	795.1	774.2	766.6
92.5°	1406.1	1085.4	702.1	685.0	660.3	637.6	628.1	618.6	614.8	597.7	603.4
95°	878.6	734.3	527.5	508.5	495.3	489.6	491.5	493.4	489.6	470.6	476.3
97.5°	586.3	531.3	411.8	398.5	385.2	383.3	385.2	389.0	390.9	377.6	381.4
100°	432.6	408.0	337.8	328.3	316.9	313.1	315.0	318.8	320.7	309.3	311.2
102.5°	343.5	332.1	292.2	288.4	275.1	271.3	275.1	277.0	278.9	271.3	271.3
105°	301.7	301.7	269.4	267.6	258.1	254.3	256.2	258.1	260.0	252.4	252.4
107.5°	290.3	292.2	260.0	261.9	256.2	254.3	258.1	261.9	260.0	254.3	252.4
110°	299.8	303.6	260.0	265.7	267.6	271.3	278.9	280.8	280.8	277.0	278.9



REPORT NUMBER: P588380
 CATALOG NUMBER: GAT-CA6-LED-110-730-U-33-5-X-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	309.3	315.0	256.2	269.4	282.7	292.2	305.5	313.1	309.3	307.4	309.3
115°	301.7	305.5	239.1	260.0	284.6	297.9	301.7	301.7	292.2	292.2	294.1
117.5°	292.2	299.8	222.0	239.1	256.2	267.6	265.7	260.0	248.6	244.8	256.2
120°	271.3	294.1	212.5	216.3	218.2	222.0	216.3	210.6	201.1	199.2	206.8
122.5°	250.5	271.3	195.4	191.7	189.8	189.8	187.9	186.0	180.3	182.2	189.8
125°	233.4	244.8	178.4	172.7	170.8	172.7	172.7	172.7	168.9	165.1	165.1
127.5°	220.1	223.9	168.9	161.3	159.4	159.4	159.4	161.3	159.4	153.7	153.7
130°	212.5	210.6	163.2	149.9	148.0	149.9	149.9	151.8	148.0	144.2	144.2
132.5°	197.3	193.5	155.6	142.3	140.4	142.3	142.3	142.3	138.5	134.7	134.7
135°	180.3	176.5	146.1	132.8	130.9	132.8	132.8	134.7	130.9	127.1	127.1
137.5°	167.0	163.2	136.6	125.2	123.3	123.3	125.2	125.2	123.3	119.5	119.5
140°	155.6	151.8	127.1	117.6	113.9	115.7	115.7	115.7	113.9	110.1	110.1
142.5°	146.1	144.2	117.6	108.2	104.4	106.3	106.3	108.2	104.4	100.6	100.6
145°	138.5	134.7	110.1	98.7	96.8	96.8	96.8	98.7	94.9	91.1	91.1
147.5°	130.9	127.1	100.6	89.2	87.3	87.3	87.3	87.3	85.4	81.6	79.7
150°	115.7	113.9	93.0	81.6	77.8	77.8	77.8	75.9	72.1	68.3	68.3
152.5°	98.7	96.8	81.6	72.1	68.3	68.3	66.4	66.4	62.6	60.7	58.8
155°	85.4	85.4	74.0	64.5	60.7	58.8	56.9	56.9	55.0	53.1	51.2
157.5°	75.9	74.0	66.4	58.8	51.2	51.2	49.3	49.3	47.4	45.5	43.6
160°	64.5	64.5	56.9	49.3	43.6	41.7	41.7	39.8	38.0	36.1	36.1
162.5°	51.2	51.2	45.5	39.8	34.2	34.2	32.3	32.3	30.4	28.5	26.6
165°	36.1	36.1	34.2	30.4	26.6	24.7	24.7	24.7	22.8	20.9	20.9
167.5°	24.7	24.7	22.8	20.9	19.0	17.1	19.0	19.0	17.1	15.2	15.2
170°	13.3	13.3	11.4	11.4	9.5	9.5	11.4	13.3	11.4	9.5	7.6
172.5°	5.7	5.7	5.7	5.7	3.8	5.7	7.6	9.5	7.6	5.7	5.7
175°	3.8	3.8	5.7	5.7	3.8	5.7	7.6	9.5	7.6	5.7	5.7
177.5°	3.8	3.8	5.7	5.7	3.8	5.7	7.6	9.5	7.6	5.7	5.7
180°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6

(END OF REPORT)