

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: P588379

Luminaire Tested: **GAT-CA6-LED-110-730-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588379
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-110-730-U-33-5-6-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9926 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U3 - G4

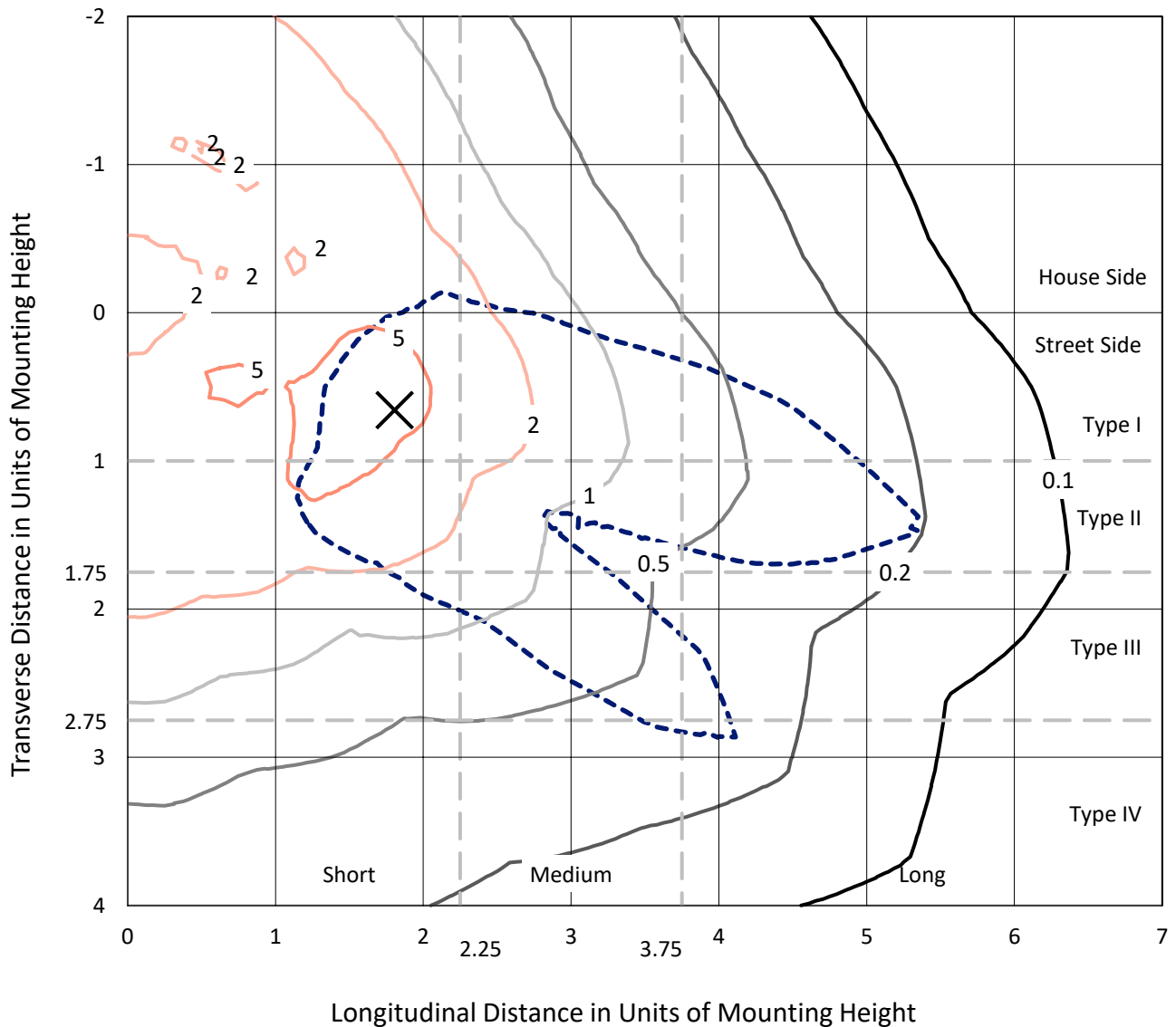
Input Watts (W): 112.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P588379
 CATALOG NUMBER: GAT-CA6-LED-110-730-U-33-5-6-X

Iso-Footcandle Lines of Horizontal Illumination

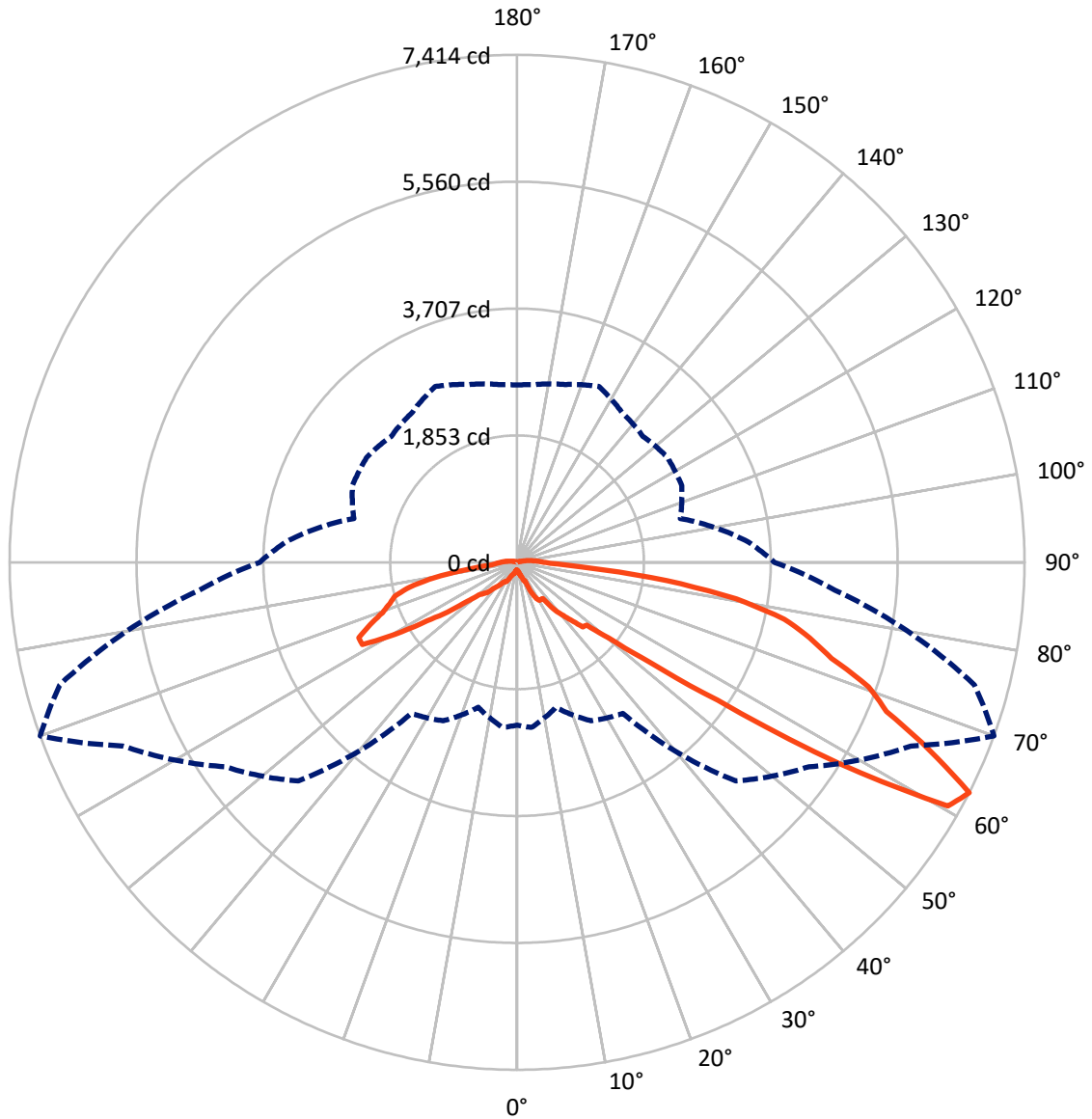
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P588379
CATALOG NUMBER: GAT-CA6-LED-110-730-U-33-5-6-X

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P588379
 CATALOG NUMBER: GAT-CA6-LED-110-730-U-33-5-6-X

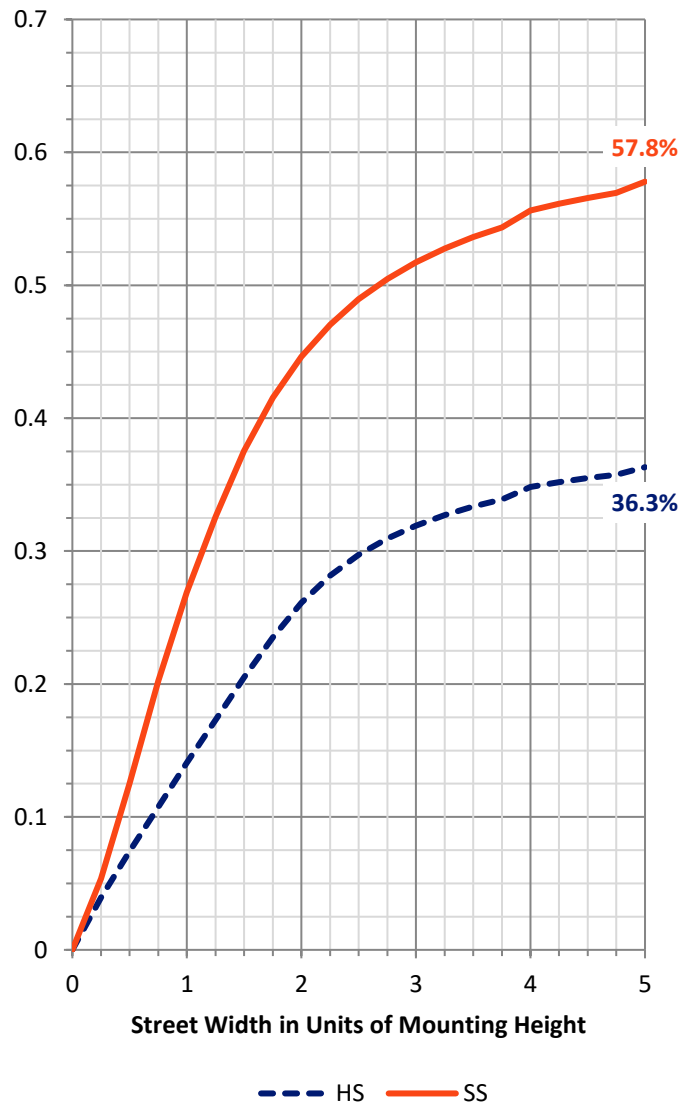
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3678.8	134.9	3813.7
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	5927.0	185.3	6112.4
	% Fixture	59.7	1.9	61.6
Total	Lumens	9605.8	320.2	9926.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.5	0.1
10°-20°	54.0	0.5
20°-30°	167.4	1.7
30°-40°	359.1	3.6
40°-50°	672.8	6.8
50°-60°	1745.9	17.6
60°-70°	3198.1	32.2
70°-80°	2565.2	25.8
80°-90°	830.6	8.4
90°-100°	218.9	2.2
100°-110°	71.2	0.7
110°-120°	27.9	0.3
120°-130°	2.2	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°	9605.8	96.8
0°-180°	9926.0	100.0

Coefficient of Utilization



REPORT NUMBER: P588379

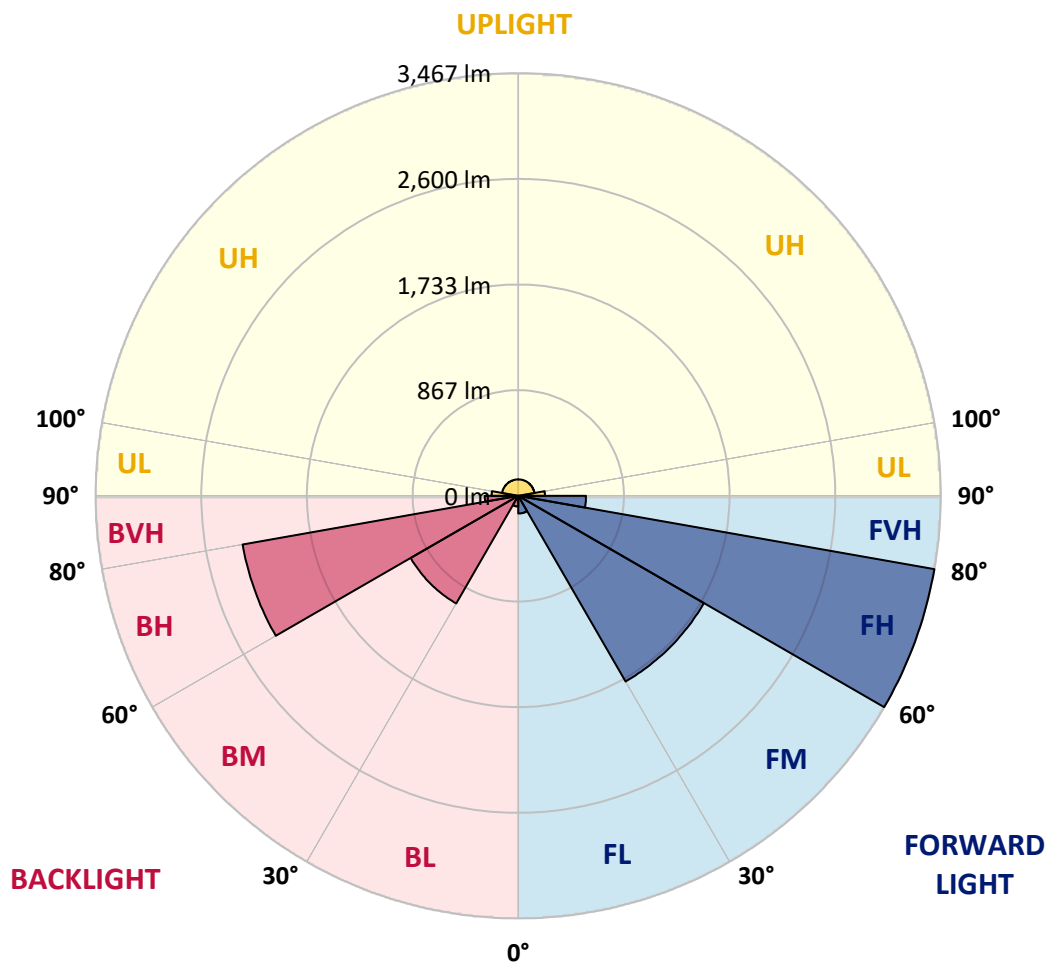
CATALOG NUMBER: GAT-CA6-LED-110-730-U-33-5-6-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	145.6	1.5			
FM (30°-60°)	1758.7	17.7			
FH (60°-80°)	3466.9	34.9			G2/5000
FVH (80°-90°)	555.7	5.6			G4/750
BL (0°-30°)	88.4	0.9	B0/110		
BM (30°-60°)	1019.0	10.3	B2/2500		
BH (60°-80°)	2296.5	23.1	B3/2500		G3/2500
BVH (80°-90°)	274.9	2.8			G3/500
UL (90°-100°)	218.9	2.2		U3/500	
UH (100°-180°)	134.9	1.4		U3/500	

BUG Rating: B3-U3-G4

Type III Short





REPORT NUMBER: P588379
 CATALOG NUMBER: GAT-CA6-LED-110-730-U-33-5-6-X

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	117.6	117.6	117.6	117.6	117.6	117.6	117.6	117.6	117.6	117.6	117.6
2.5°	127.1	127.1	127.1	125.2	123.3	121.4	119.5	119.5	117.6	115.7	113.9
5°	138.5	136.6	134.7	130.9	129.0	129.0	127.1	127.1	127.1	125.2	123.3
7.5°	153.7	153.7	151.8	149.9	148.0	146.1	144.2	142.3	142.3	140.4	138.5
10°	174.6	174.6	174.6	172.7	172.7	170.8	167.0	165.1	161.3	159.4	153.7
12.5°	195.4	197.3	193.5	193.5	193.5	191.7	187.9	186.0	182.2	178.4	170.8
15°	216.3	214.4	212.5	210.6	214.4	214.4	212.5	212.5	204.9	199.2	186.0
17.5°	235.3	235.3	237.2	237.2	242.9	241.0	241.0	239.1	235.3	225.8	208.7
20°	265.7	267.6	267.6	267.6	286.5	294.1	296.0	297.9	292.2	273.2	239.1
22.5°	296.0	297.9	311.2	307.4	307.4	307.4	326.4	316.9	292.2	269.5	250.5
25°	400.4	406.1	409.9	423.2	438.3	480.1	546.5	525.6	487.7	409.9	345.4
27.5°	500.9	508.5	576.9	671.7	685.0	635.7	683.1	620.5	601.5	521.8	468.7
30°	546.5	559.8	677.4	741.9	764.7	700.2	768.5	649.0	643.3	586.3	540.8
32.5°	557.9	567.4	696.4	704.0	709.7	702.1	804.6	658.4	645.2	588.2	521.8
35°	540.8	552.2	639.5	595.8	597.7	732.4	924.1	709.7	649.0	550.3	476.3
37.5°	666.0	666.0	740.0	751.4	800.8	963.9	1210.6	937.4	869.1	717.3	626.2
40°	759.0	768.5	886.1	929.8	937.4	1075.9	1516.1	1098.7	1001.9	802.7	732.4
42.5°	884.3	882.4	990.5	1020.9	1041.7	1093.0	1550.3	1263.8	1149.9	908.9	855.8
45°	905.1	935.5	1034.2	1000.0	1026.6	1157.5	1618.6	1497.2	1345.4	1110.1	1000.0
47.5°	821.6	863.4	1062.6	1034.2	927.9	988.6	1297.9	1537.0	1370.0	1140.4	1062.6
50°	886.1	908.9	1007.6	988.6	846.3	1051.2	1425.0	1926.0	1740.0	1356.7	1157.5
52.5°	1146.1	1195.4	1212.5	1286.5	1218.2	1573.1	1994.3	2440.2	2415.6	1963.9	1527.5
55°	1472.5	1544.6	1620.5	1901.3	1941.2	2470.6	2783.7	3260.0	3556.0	3106.3	2343.5
57.5°	1825.4	1927.9	1903.2	2311.2	2373.8	3347.3	3635.7	4751.4	5542.7	4931.7	3432.6
60°	2167.0	2235.3	2096.8	2455.4	2575.0	4214.4	4637.6	6187.9	7229.6	6578.8	4227.7
62.5°	2377.6	2421.3	2193.6	2554.1	2694.5	4516.1	5204.9	6349.2	7413.7	6918.4	4658.5
65°	2375.7	2364.3	2104.4	2417.5	2398.5	4168.9	5030.4	5335.9	6622.4	6538.9	4713.5
67.5°	2282.7	2286.5	2013.3	2261.9	2184.1	3675.5	4660.3	4514.2	5821.6	5933.6	4584.4
70°	2193.6	2239.1	1979.1	2195.4	2159.4	3535.1	4499.1	4062.6	5445.9	5658.5	4447.8
72.5°	2068.3	2112.0	1867.2	2056.9	2070.2	3254.3	4223.9	3546.5	4802.7	5058.8	3986.7
75°	2066.4	2121.4	1891.8	2058.8	2079.7	3094.9	4258.1	3368.1	4417.5	4760.9	3721.1
77.5°	1948.8	1998.1	1785.6	1941.2	2000.0	2800.8	4062.6	3146.1	3990.5	4375.7	3373.8
80°	1565.5	1631.9	1457.3	1559.8	1592.0	2100.6	3258.1	2576.9	3246.7	3631.9	2757.1
82.5°	1070.2	1130.9	1015.2	1091.1	1132.8	1377.6	2252.4	1855.8	2206.8	2442.1	1726.8
85°	618.6	690.7	622.4	612.9	633.8	726.8	1212.5	986.7	1026.6	1079.7	766.6
87.5°	389.0	400.4	366.2	368.1	371.9	398.5	552.2	440.2	485.8	550.3	464.9
90°	309.3	320.7	296.0	297.9	292.2	316.9	413.7	335.9	373.8	430.7	368.1
92.5°	267.6	275.1	258.1	261.9	258.1	277.0	345.4	277.0	307.4	352.9	301.7
95°	227.7	233.4	223.9	225.8	214.4	225.8	269.5	210.6	233.4	265.7	225.8
97.5°	182.2	187.9	182.2	182.2	170.8	176.5	206.8	163.2	178.4	199.2	170.8
100°	144.2	146.1	144.2	142.3	132.8	132.8	144.2	117.6	123.3	136.6	117.6
102.5°	110.1	112.0	110.1	108.2	96.8	91.1	91.1	75.9	79.7	83.5	74.0
105°	87.3	89.2	87.3	83.5	74.0	68.3	66.4	55.0	55.0	56.9	51.2
107.5°	72.1	72.1	72.1	68.3	62.6	55.0	49.3	39.8	39.8	41.7	39.8
110°	58.8	58.8	56.9	55.0	49.3	43.6	38.0	32.3	32.3	32.3	30.4



REPORT NUMBER: P588379
 CATALOG NUMBER: GAT-CA6-LED-110-730-U-33-5-6-X

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	49.3	49.3	47.4	45.5	39.8	34.2	30.4	26.6	26.6	26.6	24.7
115°	41.7	41.7	39.8	38.0	34.2	28.5	24.7	20.9	20.9	20.9	20.9
117.5°	36.1	36.1	34.2	32.3	28.5	24.7	20.9	17.1	17.1	17.1	17.1
120°	32.3	30.4	28.5	26.6	22.8	20.9	17.1	15.2	15.2	15.2	13.3
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



REPORT NUMBER: P588379
 CATALOG NUMBER: GAT-CA6-LED-110-730-U-33-5-6-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	117.6	117.6	117.6	117.6	117.6	117.6	117.6	117.6	117.6	117.6	117.6
2.5°	113.9	113.9	112.0	112.0	112.0	110.1	110.1	112.0	112.0	112.0	112.0
5°	121.4	119.5	115.7	112.0	110.1	108.2	106.3	106.3	110.1	110.1	110.1
7.5°	136.6	134.7	129.0	125.2	121.4	117.6	115.7	113.9	115.7	117.6	117.6
10°	151.8	149.9	142.3	136.6	134.7	130.9	129.0	127.1	129.0	129.0	129.0
12.5°	167.0	163.2	157.5	149.9	146.1	144.2	142.3	140.4	140.4	140.4	140.4
15°	180.3	174.6	168.9	163.2	159.4	155.6	153.7	151.8	153.7	155.6	155.6
17.5°	201.1	195.4	182.2	172.7	170.8	167.0	165.1	165.1	167.0	168.9	168.9
20°	223.9	212.5	197.3	187.9	186.0	180.3	178.4	178.4	180.3	182.2	182.2
22.5°	242.9	235.3	212.5	199.2	197.3	195.4	197.3	197.3	199.2	201.1	201.1
25°	309.3	278.9	246.7	237.2	235.3	231.5	227.7	225.8	227.7	233.4	235.3
27.5°	417.5	362.4	301.7	280.8	280.8	284.6	292.2	296.0	288.4	284.6	286.5
30°	489.6	415.6	328.3	309.3	313.1	332.1	349.1	360.5	352.9	347.2	349.1
32.5°	470.6	402.3	339.7	335.9	347.2	362.4	371.9	377.6	392.8	398.5	406.1
35°	428.8	377.6	343.5	358.6	366.2	366.2	366.2	366.2	394.7	421.3	428.8
37.5°	523.7	436.4	408.0	413.7	408.0	402.3	408.0	423.2	447.8	468.7	474.4
40°	614.8	504.7	457.3	453.5	451.6	470.6	504.7	531.3	538.9	519.9	523.7
42.5°	715.4	571.2	510.4	516.1	531.3	561.7	599.6	599.6	599.6	582.5	588.2
45°	810.2	649.0	612.9	628.1	628.1	643.3	664.1	650.9	667.9	675.5	685.0
47.5°	922.2	753.3	673.6	660.3	662.2	692.6	700.2	694.5	705.9	692.6	692.6
50°	956.4	770.4	707.8	759.0	759.0	724.9	696.4	700.2	732.4	768.5	776.1
52.5°	1216.3	954.5	897.5	950.7	973.4	914.6	914.6	922.2	929.8	956.4	963.9
55°	1819.7	1360.5	1189.8	1313.1	1330.2	1366.2	1464.9	1449.7	1362.4	1318.8	1315.0
57.5°	2721.1	2019.0	1482.0	1656.5	1766.6	1914.6	1988.6	1945.0	1827.3	1787.5	1743.8
60°	3478.2	2764.7	1920.3	2223.9	2389.0	2413.7	2387.1	2390.9	2301.7	2330.2	2318.8
62.5°	3759.0	3392.8	2468.7	2652.8	2677.4	2601.5	2671.7	2833.0	2688.8	2603.4	2590.1
65°	3842.5	3626.2	2622.4	2502.8	2480.1	2466.8	2743.8	3013.3	2690.7	2491.5	2489.6
67.5°	3759.0	3387.1	2426.9	2229.6	2282.7	2390.9	2751.4	2852.0	2548.4	2328.3	2313.1
70°	3650.9	3001.9	2184.1	2013.3	2136.6	2294.1	2523.7	2483.9	2364.3	2168.9	2159.4
72.5°	3258.1	2601.5	2028.5	1886.2	2026.6	2072.1	2186.0	2168.9	2203.0	2079.7	2074.0
75°	2916.5	2389.0	1935.5	1768.5	1836.8	1829.2	1920.3	1941.2	2038.0	1984.8	1963.9
77.5°	2516.1	2077.8	1705.9	1512.3	1538.9	1537.0	1580.6	1593.9	1662.2	1666.0	1643.3
80°	1969.6	1628.1	1332.1	1138.5	1142.3	1108.2	1113.9	1112.0	1125.2	1140.4	1119.5
82.5°	1130.9	908.9	755.2	631.9	605.3	559.8	550.3	554.1	548.4	544.6	544.6
85°	554.1	430.7	396.6	354.8	339.7	328.3	334.0	345.4	351.0	339.7	334.0
87.5°	373.8	322.6	307.4	290.3	282.7	271.3	278.9	288.4	296.0	286.5	284.6
90°	296.0	256.2	252.4	248.6	242.9	233.4	241.0	252.4	258.1	250.5	246.7
92.5°	239.1	206.8	206.8	204.9	199.2	191.7	201.1	210.6	216.3	210.6	208.7
95°	184.1	159.4	165.1	161.3	155.6	153.7	159.4	167.0	170.8	167.0	167.0
97.5°	142.3	125.2	130.9	129.0	121.4	119.5	123.3	129.0	132.8	129.0	127.1
100°	96.8	89.2	96.8	96.8	89.2	85.4	89.2	94.9	96.8	96.8	94.9
102.5°	64.5	60.7	70.2	72.1	68.3	64.5	66.4	70.2	72.1	72.1	72.1
105°	45.5	45.5	55.0	56.9	53.1	49.3	53.1	55.0	55.0	55.0	55.0
107.5°	36.1	38.0	43.6	47.4	43.6	39.8	41.7	43.6	43.6	43.6	45.5
110°	30.4	30.4	36.1	39.8	36.1	34.2	34.2	34.2	34.2	36.1	39.8



REPORT NUMBER: P588379
 CATALOG NUMBER: GAT-CA6-LED-110-730-U-33-5-6-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	24.7	26.6	30.4	32.3	30.4	28.5	28.5	28.5	28.5	30.4	36.1
115°	20.9	22.8	26.6	26.6	24.7	24.7	24.7	22.8	22.8	24.7	34.2
117.5°	17.1	19.0	20.9	20.9	20.9	19.0	19.0	19.0	19.0	22.8	36.1
120°	15.2	15.2	17.1	17.1	15.2	15.2	15.2	15.2	13.3	19.0	28.5
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)