

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: P588403

Luminaire Tested: **GAT-CA6-LED-120-730-U-33-5-6-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588403  
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-120-730-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: 10757 lumens  
Efficiency: N/A  
Efficacy: 90.2 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

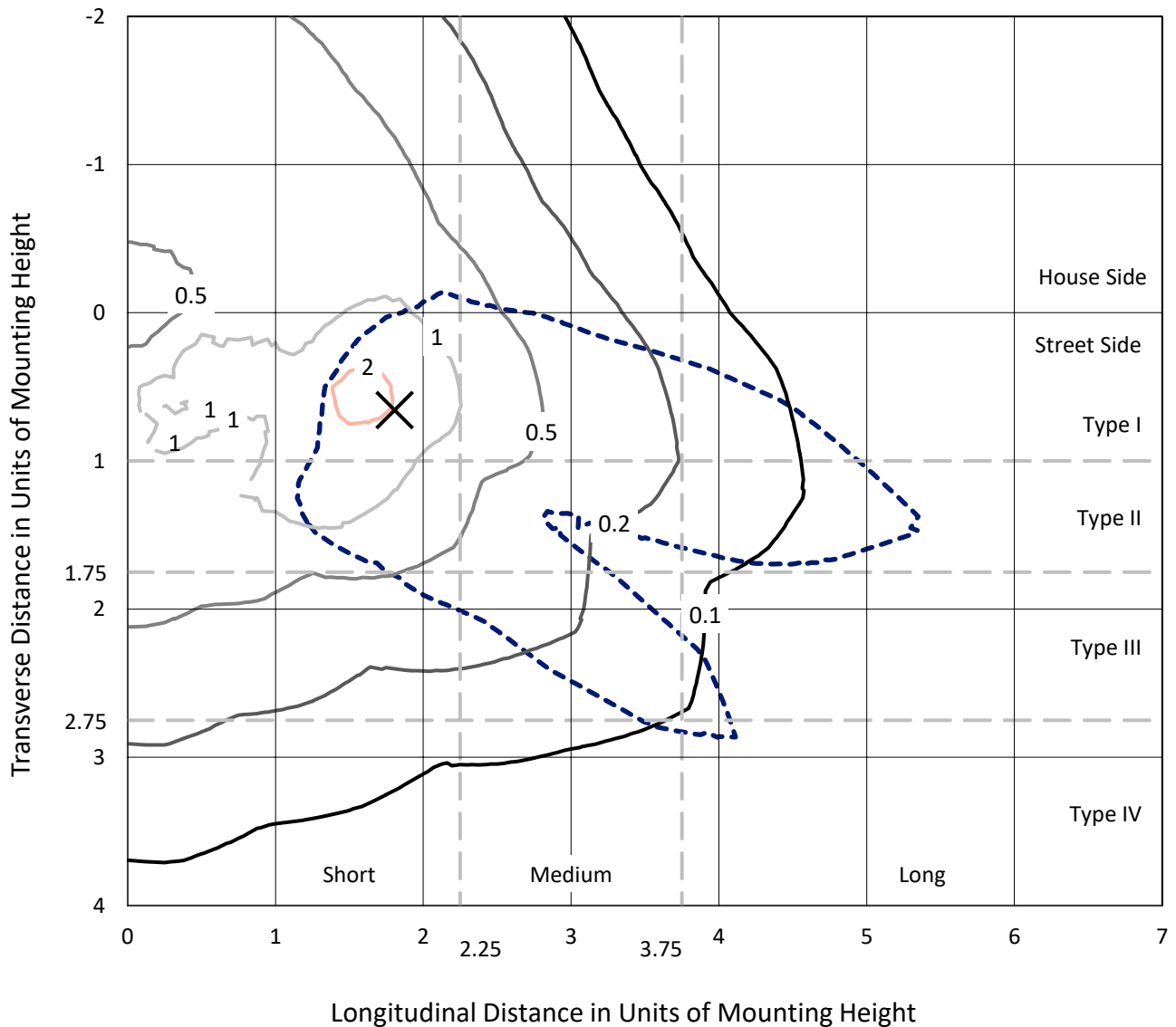
Input Watts (W): 119.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P588403  
 CATALOG NUMBER: GAT-CA6-LED-120-730-U-33-5-6-X

### Iso-Footcandle Lines of Horizontal Illumination

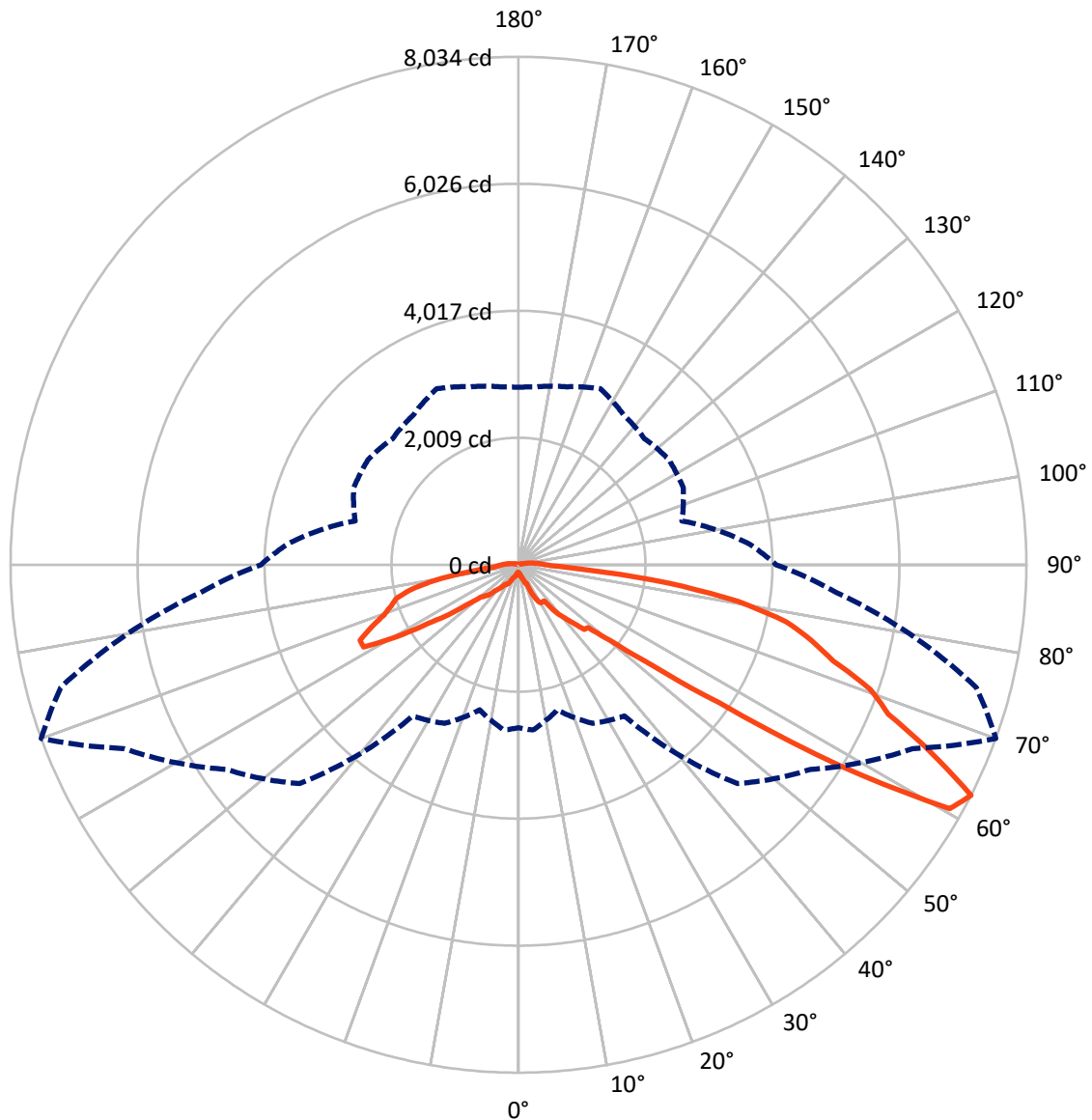
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.4 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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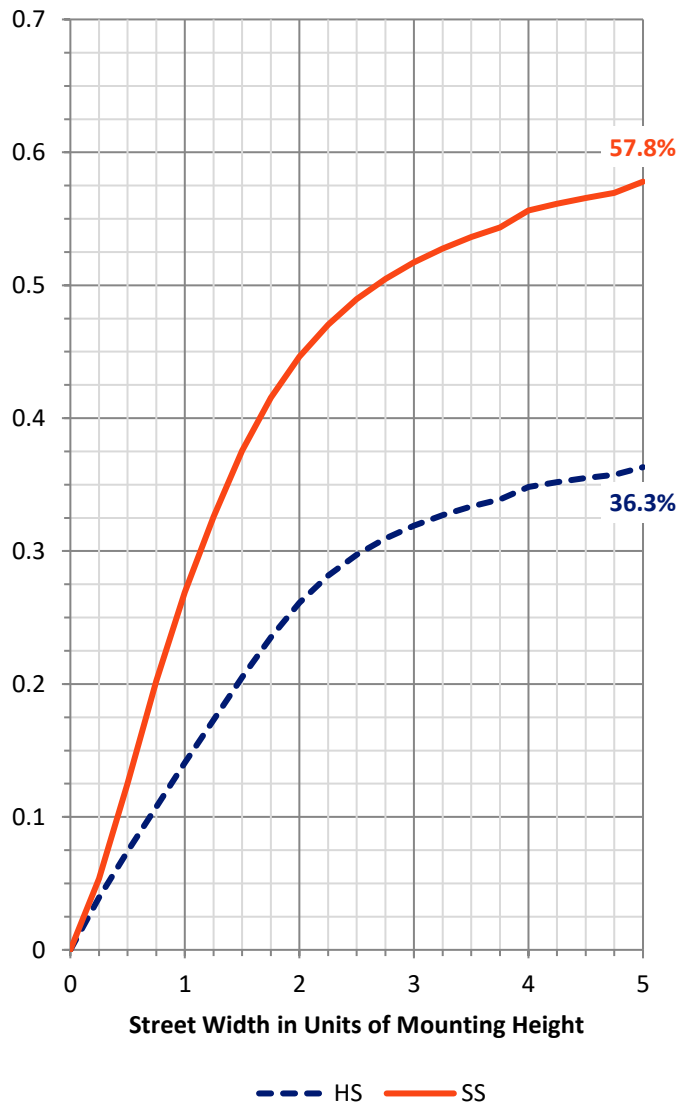
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3986.8	146.1	4132.9
	% Fixture	37.1	1.4	38.4
<b>Street Side</b>	Lumens	6423.2	200.8	6624.1
	% Fixture	59.7	1.9	61.6
<b>Total</b>	Lumens	10410.0	347.0	10757.0
	% Fixture	96.8	3.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.6	0.1
10°-20°	58.6	0.5
20°-30°	181.4	1.7
30°-40°	389.2	3.6
40°-50°	729.1	6.8
50°-60°	1892.0	17.6
60°-70°	3465.9	32.2
70°-80°	2780.0	25.8
80°-90°	900.2	8.4
90°-100°	237.2	2.2
100°-110°	77.2	0.7
110°-120°	30.2	0.3
120°-130°	2.4	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°	10410.0	96.8
0°-180°	10757.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P588403

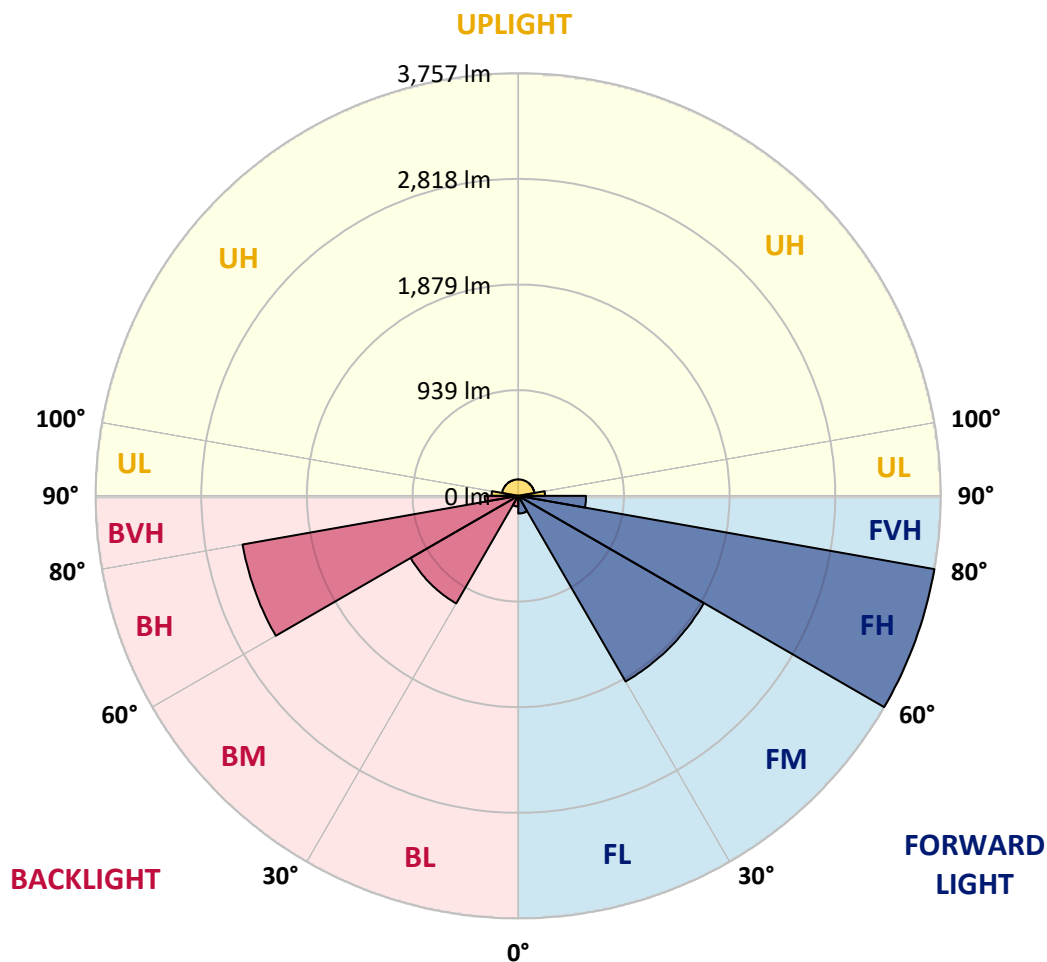
CATALOG NUMBER: GAT-CA6-LED-120-730-U-33-5-6-X

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	157.8	1.5			
FM (30°-60°)	1906.0	17.7			
FH (60°-80°)	3757.2	34.9			G2/5000
FVH (80°-90°)	602.2	5.6			G4/750
BL (0°-30°)	95.8	0.9	B0/110		
BM (30°-60°)	1104.4	10.3	B2/2500		
BH (60°-80°)	2488.7	23.1	B3/2500		G3/2500
BVH (80°-90°)	297.9	2.8			G3/500
UL (90°-100°)	237.2	2.2		U3/500	
UH (100°-180°)	146.1	1.4		U3/500	

**BUG Rating: B3-U3-G4**

Type III Short





REPORT NUMBER: P588403  
 CATALOG NUMBER: GAT-CA6-LED-120-730-U-33-5-6-X

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5
2.5°	137.8	137.8	137.8	135.7	133.7	131.6	129.6	129.6	127.5	125.4	123.4
5°	150.1	148.1	146.0	141.9	139.8	139.8	137.8	137.8	137.8	135.7	133.7
7.5°	166.6	166.6	164.5	162.5	160.4	158.3	156.3	154.2	154.2	152.2	150.1
10°	189.2	189.2	189.2	187.1	187.1	185.1	181.0	178.9	174.8	172.7	166.6
12.5°	211.8	213.9	209.8	209.8	209.8	207.7	203.6	201.5	197.4	193.3	185.1
15°	234.4	232.4	230.3	228.3	232.4	232.4	230.3	230.3	222.1	215.9	201.5
17.5°	255.0	255.0	257.0	257.0	263.2	261.2	261.2	259.1	255.0	244.7	226.2
20°	287.9	290.0	290.0	290.0	310.5	318.7	320.8	322.9	316.7	296.1	259.1
22.5°	320.8	322.9	337.2	333.1	333.1	333.1	353.7	343.4	316.7	292.0	271.4
25°	433.9	440.1	444.2	458.6	475.0	520.3	592.2	569.6	528.5	444.2	374.3
27.5°	542.9	551.1	625.1	728.0	742.4	688.9	740.3	672.4	651.9	565.5	507.9
30°	592.2	606.6	734.1	804.1	828.7	758.8	832.8	703.3	697.1	635.4	586.1
32.5°	604.6	614.9	754.7	762.9	769.1	760.9	871.9	713.6	699.2	637.5	565.5
35°	586.1	598.4	693.0	645.7	647.8	793.8	1001.5	769.1	703.3	596.4	516.2
37.5°	721.8	721.8	802.0	814.3	867.8	1044.6	1312.0	1015.9	941.8	777.3	678.6
40°	822.6	832.8	960.3	1007.6	1015.9	1166.0	1643.1	1190.7	1085.8	869.9	793.8
42.5°	958.3	956.2	1073.4	1106.3	1129.0	1184.5	1680.1	1369.6	1246.2	985.0	927.4
45°	980.9	1013.8	1120.7	1083.7	1112.5	1254.4	1754.1	1622.5	1458.0	1203.0	1083.7
47.5°	890.4	935.7	1151.6	1120.7	1005.6	1071.4	1406.6	1665.7	1484.7	1235.9	1151.6
50°	960.3	985.0	1091.9	1071.4	917.2	1139.2	1544.4	2087.2	1885.7	1470.3	1254.4
52.5°	1242.1	1295.5	1314.0	1394.2	1320.2	1704.8	2161.3	2644.5	2617.8	2128.4	1655.4
55°	1595.8	1673.9	1756.2	2060.5	2103.7	2677.4	3016.7	3532.9	3853.7	3366.3	2539.6
57.5°	1978.3	2089.3	2062.6	2504.7	2572.6	3627.5	3940.1	5149.2	6006.7	5344.6	3720.0
60°	2348.4	2422.4	2272.3	2661.0	2790.5	4567.3	5025.8	6705.9	7834.9	7129.5	4581.7
62.5°	2576.7	2624.0	2377.2	2767.9	2920.1	4894.2	5640.7	6880.7	8034.3	7497.6	5048.5
65°	2574.6	2562.3	2280.5	2619.8	2599.3	4517.9	5451.5	5782.6	7176.8	7086.3	5108.1
67.5°	2473.8	2478.0	2181.8	2451.2	2366.9	3983.2	5050.5	4892.2	6309.0	6430.4	4968.3
70°	2377.2	2426.5	2144.8	2379.3	2340.2	3831.1	4875.7	4402.7	5901.9	6132.2	4820.2
72.5°	2241.5	2288.8	2023.5	2229.1	2243.5	3526.7	4577.5	3843.4	5204.7	5482.4	4320.5
75°	2239.4	2299.1	2050.2	2231.2	2253.8	3354.0	4614.6	3650.1	4787.3	5159.5	4032.6
77.5°	2111.9	2165.4	1935.1	2103.7	2167.4	3035.2	4402.7	3409.5	4324.6	4742.1	3656.3
80°	1696.5	1768.5	1579.3	1690.4	1725.3	2276.4	3530.8	2792.6	3518.5	3935.9	2987.9
82.5°	1159.8	1225.6	1100.2	1182.4	1227.7	1492.9	2440.9	2011.2	2391.6	2646.6	1871.3
85°	670.4	748.5	674.5	664.2	686.8	787.6	1314.0	1069.3	1112.5	1170.1	830.8
87.5°	421.6	433.9	396.9	398.9	403.1	431.8	598.4	477.1	526.4	596.4	503.8
90°	335.2	347.5	320.8	322.9	316.7	343.4	448.3	364.0	405.1	466.8	398.9
92.5°	290.0	298.2	279.7	283.8	279.7	300.2	374.3	300.2	333.1	382.5	327.0
95°	246.8	252.9	242.7	244.7	232.4	244.7	292.0	228.3	252.9	287.9	244.7
97.5°	197.4	203.6	197.4	197.4	185.1	191.2	224.1	176.9	193.3	215.9	185.1
100°	156.3	158.3	156.3	154.2	143.9	143.9	156.3	127.5	133.7	148.1	127.5
102.5°	119.3	121.3	119.3	117.2	104.9	98.7	98.7	82.3	86.4	90.5	80.2
105°	94.6	96.7	94.6	90.5	80.2	74.0	72.0	59.6	59.6	61.7	55.5
107.5°	78.1	78.1	78.1	74.0	67.9	59.6	53.5	43.2	43.2	45.2	43.2
110°	63.7	63.7	61.7	59.6	53.5	47.3	41.1	35.0	35.0	35.0	32.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	53.5	53.5	51.4	49.4	43.2	37.0	32.9	28.8	28.8	28.8	26.7
115°	45.2	45.2	43.2	41.1	37.0	30.8	26.7	22.6	22.6	22.6	22.6
117.5°	39.1	39.1	37.0	35.0	30.8	26.7	22.6	18.5	18.5	18.5	18.5
120°	35.0	32.9	30.8	28.8	24.7	22.6	18.5	16.5	16.5	16.5	14.4
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





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5
2.5°	123.4	123.4	121.3	121.3	121.3	119.3	119.3	121.3	121.3	121.3	121.3
5°	131.6	129.6	125.4	121.3	119.3	117.2	115.2	115.2	119.3	119.3	119.3
7.5°	148.1	146.0	139.8	135.7	131.6	127.5	125.4	123.4	125.4	127.5	127.5
10°	164.5	162.5	154.2	148.1	146.0	141.9	139.8	137.8	139.8	139.8	139.8
12.5°	181.0	176.9	170.7	162.5	158.3	156.3	154.2	152.2	152.2	152.2	152.2
15°	195.4	189.2	183.0	176.9	172.7	168.6	166.6	164.5	166.6	168.6	168.6
17.5°	218.0	211.8	197.4	187.1	185.1	181.0	178.9	178.9	181.0	183.0	183.0
20°	242.7	230.3	213.9	203.6	201.5	195.4	193.3	193.3	195.4	197.4	197.4
22.5°	263.2	255.0	230.3	215.9	213.9	211.8	213.9	213.9	215.9	218.0	218.0
25°	335.2	302.3	267.3	257.0	255.0	250.9	246.8	244.7	246.8	252.9	255.0
27.5°	452.4	392.8	327.0	304.3	304.3	308.5	316.7	320.8	312.6	308.5	310.5
30°	530.6	450.4	355.8	335.2	339.3	359.9	378.4	390.7	382.5	376.3	378.4
32.5°	510.0	436.0	368.1	364.0	376.3	392.8	403.1	409.2	425.7	431.8	440.1
35°	464.7	409.2	372.2	388.7	396.9	396.9	396.9	396.9	427.7	456.5	464.7
37.5°	567.6	473.0	442.1	448.3	442.1	436.0	442.1	458.6	485.3	507.9	514.1
40°	666.3	547.0	495.6	491.5	489.4	510.0	547.0	575.8	584.0	563.5	567.6
42.5°	775.3	619.0	553.2	559.3	575.8	608.7	649.8	649.8	649.8	631.3	637.5
45°	878.1	703.3	664.2	680.7	680.7	697.1	719.7	705.3	723.9	732.1	742.4
47.5°	999.4	816.4	730.0	715.6	717.7	750.6	758.8	752.6	765.0	750.6	750.6
50°	1036.4	834.9	767.0	822.6	822.6	785.5	754.7	758.8	793.8	832.8	841.1
52.5°	1318.2	1034.4	972.7	1030.3	1054.9	991.2	991.2	999.4	1007.6	1036.4	1044.6
55°	1972.1	1474.4	1289.4	1423.0	1441.5	1480.6	1587.5	1571.1	1476.5	1429.2	1425.1
57.5°	2948.9	2188.0	1606.0	1795.2	1914.5	2074.9	2155.1	2107.8	1980.3	1937.1	1889.8
60°	3769.4	2996.2	2081.1	2410.1	2589.0	2615.7	2586.9	2591.1	2494.4	2525.3	2512.9
62.5°	4073.7	3676.8	2675.4	2874.8	2901.6	2819.3	2895.4	3070.2	2913.9	2821.4	2807.0
65°	4164.2	3929.8	2841.9	2712.4	2687.7	2673.3	2973.5	3265.6	2916.0	2700.0	2698.0
67.5°	4073.7	3670.7	2630.1	2416.3	2473.8	2591.1	2981.8	3090.8	2761.7	2523.2	2506.7
70°	3956.5	3253.2	2366.9	2181.8	2315.5	2486.2	2735.0	2691.8	2562.3	2350.5	2340.2
72.5°	3530.8	2819.3	2198.3	2044.1	2196.2	2245.6	2369.0	2350.5	2387.5	2253.8	2247.6
75°	3160.7	2589.0	2097.5	1916.6	1990.6	1982.4	2081.1	2103.7	2208.6	2151.0	2128.4
77.5°	2726.8	2251.8	1848.7	1638.9	1667.7	1665.7	1713.0	1727.4	1801.4	1805.5	1780.8
80°	2134.5	1764.4	1443.6	1233.8	1238.0	1200.9	1207.1	1205.0	1219.4	1235.9	1213.3
82.5°	1225.6	985.0	818.4	684.8	656.0	606.6	596.4	600.5	594.3	590.2	590.2
85°	600.5	466.8	429.8	384.5	368.1	355.8	361.9	374.3	380.4	368.1	361.9
87.5°	405.1	349.6	333.1	314.6	306.4	294.1	302.3	312.6	320.8	310.5	308.5
90°	320.8	277.6	273.5	269.4	263.2	252.9	261.2	273.5	279.7	271.4	267.3
92.5°	259.1	224.1	224.1	222.1	215.9	207.7	218.0	228.3	234.4	228.3	226.2
95°	199.5	172.7	178.9	174.8	168.6	166.6	172.7	181.0	185.1	181.0	181.0
97.5°	154.2	135.7	141.9	139.8	131.6	129.6	133.7	139.8	143.9	139.8	137.8
100°	104.9	96.7	104.9	104.9	96.7	92.5	96.7	102.8	104.9	104.9	102.8
102.5°	69.9	65.8	76.1	78.1	74.0	69.9	72.0	76.1	78.1	78.1	78.1
105°	49.4	49.4	59.6	61.7	57.6	53.5	57.6	59.6	59.6	59.6	59.6
107.5°	39.1	41.1	47.3	51.4	47.3	43.2	45.2	47.3	47.3	47.3	49.4
110°	32.9	32.9	39.1	43.2	39.1	37.0	37.0	37.0	37.0	39.1	43.2



REPORT NUMBER: P588403  
 CATALOG NUMBER: GAT-CA6-LED-120-730-U-33-5-6-X

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	26.7	28.8	32.9	35.0	32.9	30.8	30.8	30.8	30.8	32.9	39.1
115°	22.6	24.7	28.8	28.8	26.7	26.7	26.7	24.7	24.7	26.7	37.0
117.5°	18.5	20.6	22.6	22.6	22.6	20.6	20.6	20.6	20.6	24.7	39.1
120°	16.5	16.5	18.5	18.5	16.5	16.5	16.5	16.5	14.4	20.6	30.8
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)