

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: P588355

Luminaire Tested: **GAT-CA6-LED-100-730-U-33-5-6-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588355  
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-100-730-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: 9328 lumens  
Efficiency: N/A  
Efficacy: 90.0 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

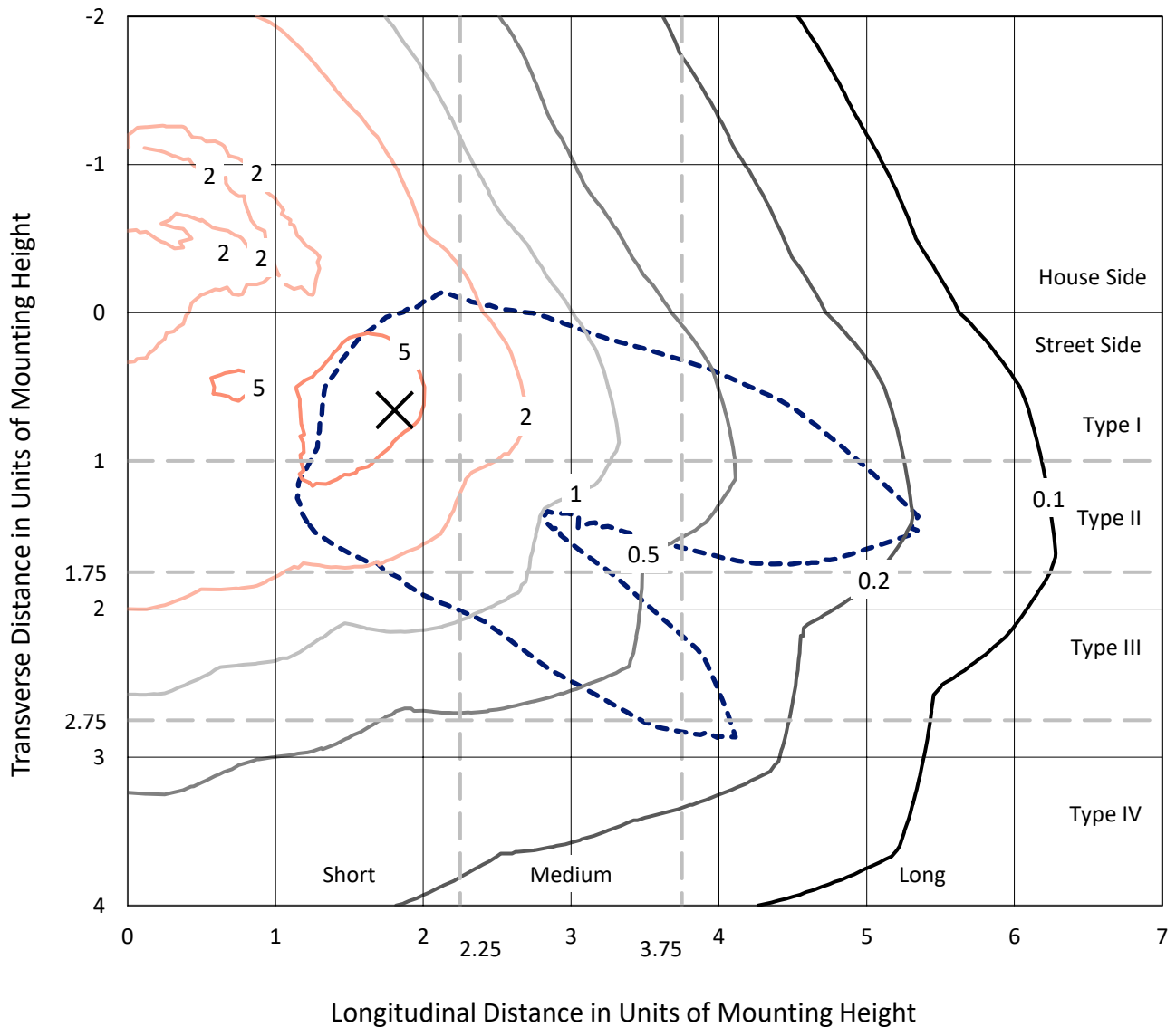
Input Watts (W): 103.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

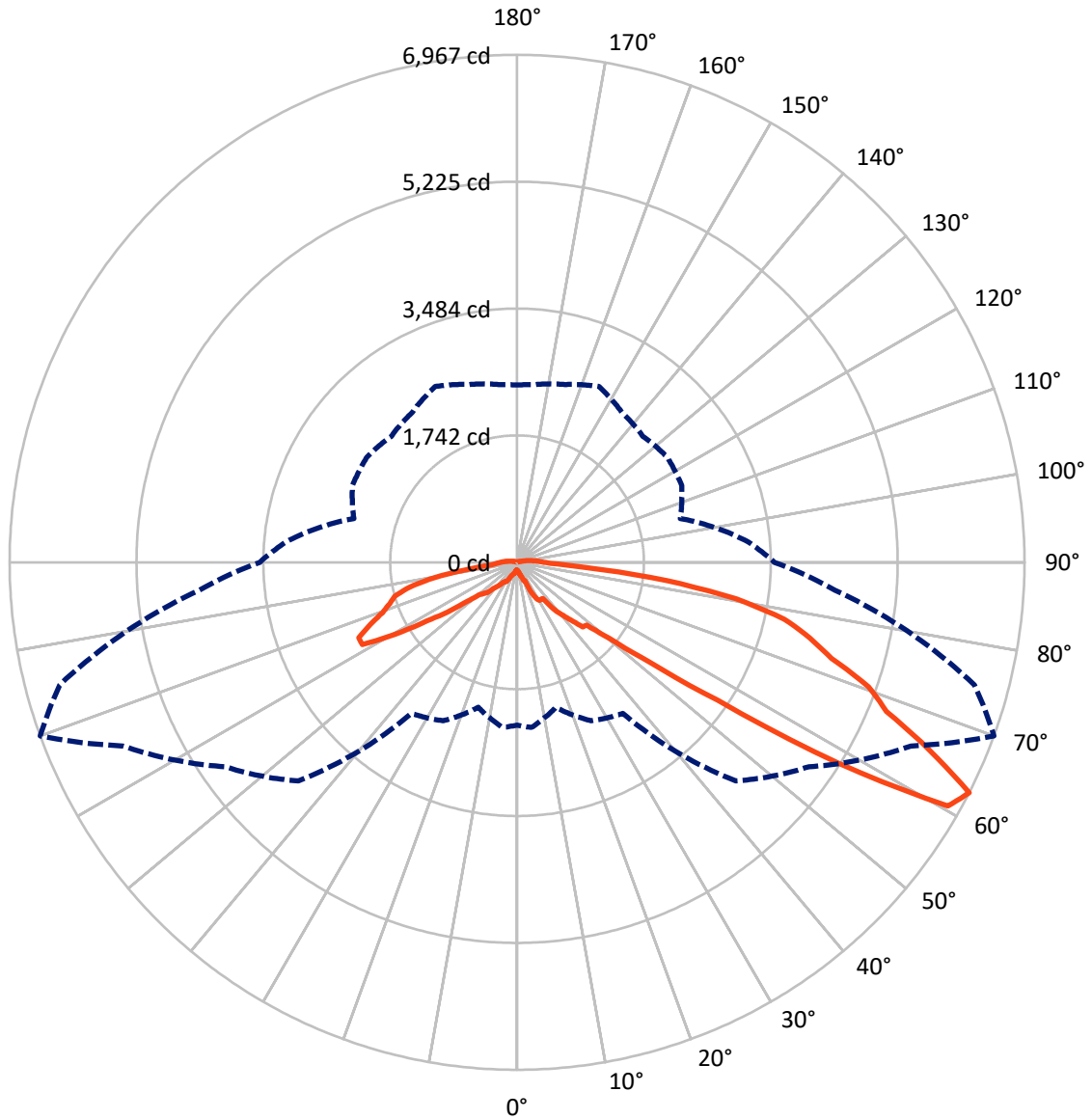
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 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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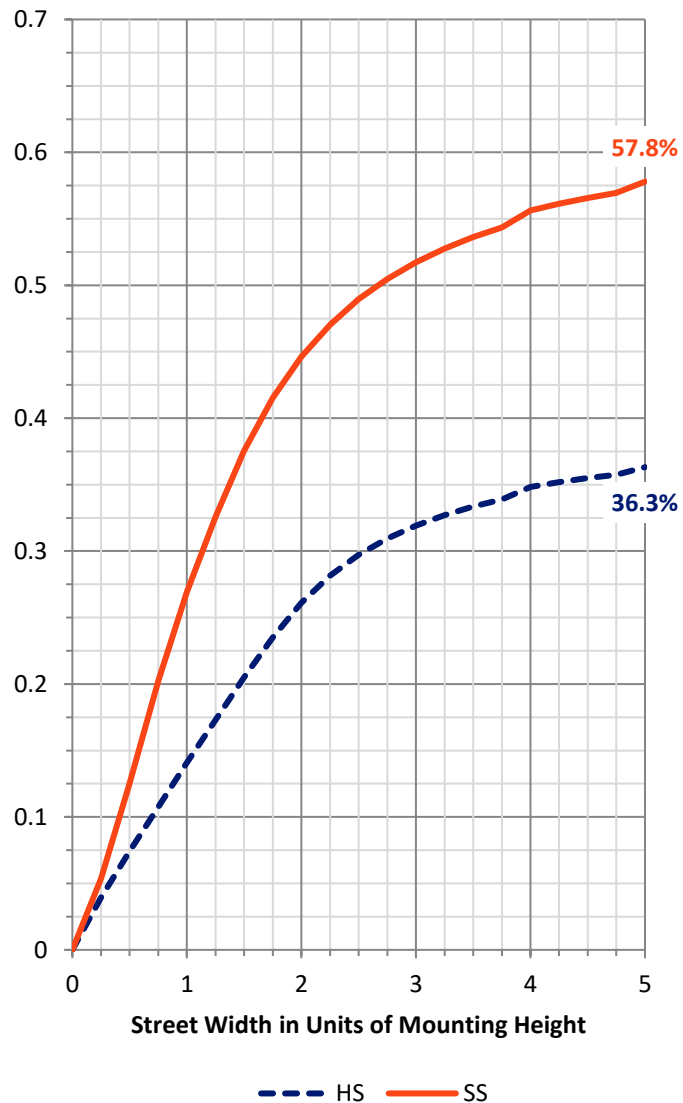
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3457.2	126.7	3583.9
	% Fixture	37.1	1.4	38.4
<b>Street Side</b>	Lumens	5569.9	174.1	5744.1
	% Fixture	59.7	1.9	61.6
<b>Total</b>	Lumens	9027.1	300.9	9328.0
	% Fixture	96.8	3.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.8	0.1
10°-20°	50.8	0.5
20°-30°	157.3	1.7
30°-40°	337.5	3.6
40°-50°	632.3	6.8
50°-60°	1640.7	17.6
60°-70°	3005.5	32.2
70°-80°	2410.7	25.8
80°-90°	780.6	8.4
90°-100°	205.7	2.2
100°-110°	66.9	0.7
110°-120°	26.2	0.3
120°-130°	2.1	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°	9027.1	96.8
0°-180°	9328.0	100.0

**Coefficient of Utilization**



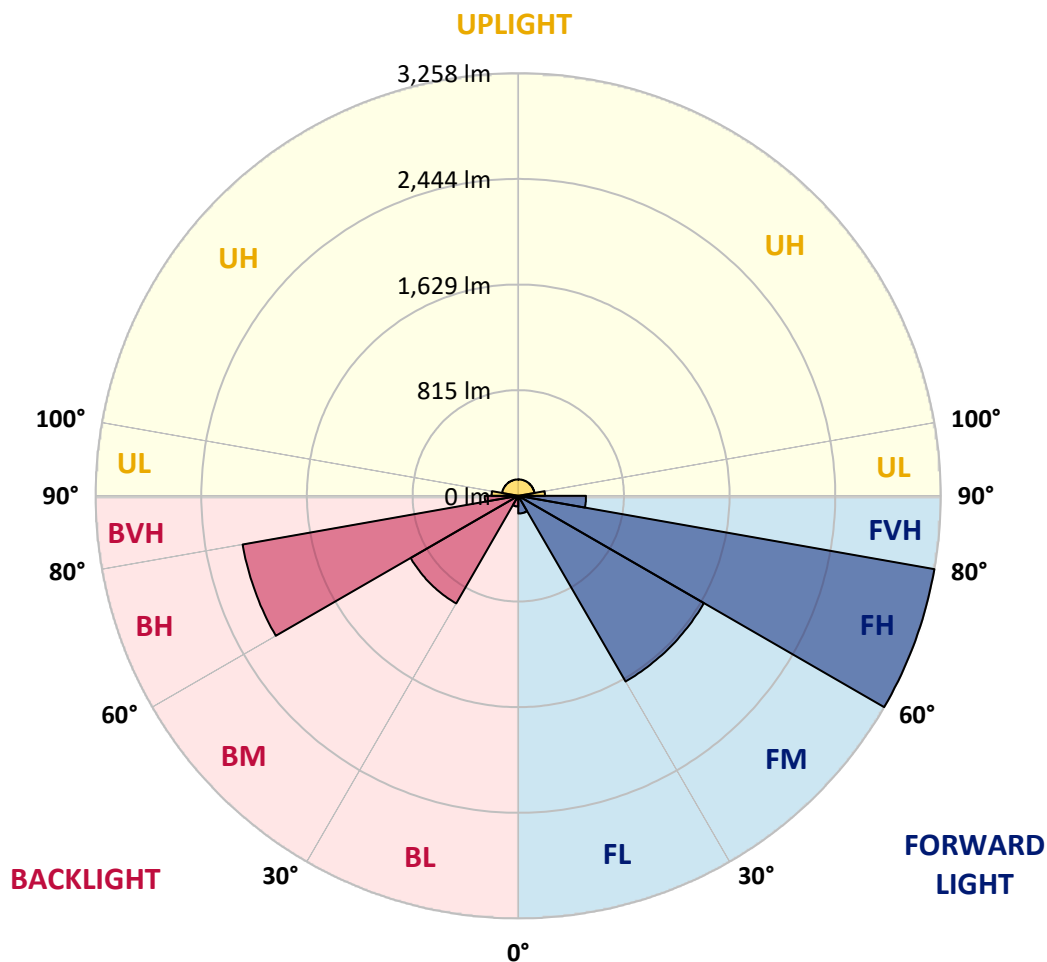
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	136.9	1.5			
FM (30°-60°)	1652.8	17.7			
FH (60°-80°)	3258.0	34.9			G2/5000
FVH (80°-90°)	522.2	5.6			G4/750
BL (0°-30°)	83.0	0.9	B0/110		
BM (30°-60°)	957.6	10.3	B1/1000		
BH (60°-80°)	2158.1	23.1	B3/2500		G3/2500
BVH (80°-90°)	258.4	2.8			G3/500
UL (90°-100°)	205.7	2.2		U3/500	
UH (100°-180°)	126.7	1.4		U3/500	

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6
2.5°	119.5	119.5	119.5	117.7	115.9	114.1	112.3	112.3	110.6	108.8	107.0
5°	130.2	128.4	126.6	123.0	121.3	121.3	119.5	119.5	119.5	117.7	115.9
7.5°	144.4	144.4	142.7	140.9	139.1	137.3	135.5	133.7	133.7	132.0	130.2
10°	164.1	164.1	164.1	162.3	162.3	160.5	156.9	155.1	151.6	149.8	144.4
12.5°	183.7	185.5	181.9	181.9	181.9	180.1	176.5	174.8	171.2	167.6	160.5
15°	203.3	201.5	199.7	197.9	201.5	201.5	199.7	199.7	192.6	187.2	174.8
17.5°	221.1	221.1	222.9	222.9	228.3	226.5	226.5	224.7	221.1	212.2	196.2
20°	249.7	251.4	251.4	251.4	269.3	276.4	278.2	280.0	274.6	256.8	224.7
22.5°	278.2	280.0	292.4	288.9	288.9	288.9	306.7	297.8	274.6	253.2	235.4
25°	376.3	381.6	385.2	397.7	411.9	451.2	513.6	494.0	458.3	385.2	324.5
27.5°	470.8	477.9	542.1	631.3	643.7	597.4	642.0	583.1	565.3	490.4	440.5
30°	513.6	526.0	636.6	697.2	718.6	658.0	722.2	609.9	604.5	551.0	508.2
32.5°	524.3	533.2	654.4	661.6	666.9	659.8	756.1	618.8	606.3	552.8	490.4
35°	508.2	518.9	600.9	559.9	561.7	688.3	868.4	666.9	609.9	517.1	447.6
37.5°	625.9	625.9	695.5	706.2	752.5	905.9	1137.7	880.9	816.7	674.1	588.5
40°	713.3	722.2	832.8	873.8	880.9	1011.1	1424.8	1032.5	941.5	754.3	688.3
42.5°	831.0	829.2	930.8	959.4	979.0	1027.1	1456.9	1187.6	1080.6	854.2	804.2
45°	850.6	879.1	971.9	939.8	964.7	1087.8	1521.1	1407.0	1264.3	1043.2	939.8
47.5°	772.1	811.4	998.6	971.9	872.0	929.1	1219.7	1444.4	1287.5	1071.7	998.6
50°	832.8	854.2	946.9	929.1	795.3	987.9	1339.2	1810.0	1635.2	1275.0	1087.8
52.5°	1077.1	1123.4	1139.5	1209.0	1144.8	1478.3	1874.2	2293.2	2270.0	1845.6	1435.5
55°	1383.8	1451.5	1522.9	1786.8	1824.2	2321.7	2616.0	3063.6	3341.7	2919.1	2202.3
57.5°	1715.5	1811.7	1788.6	2172.0	2230.8	3145.6	3416.6	4465.2	5208.8	4634.6	3225.8
60°	2036.4	2100.6	1970.5	2307.5	2419.8	3960.5	4358.2	5815.1	6794.1	6182.4	3973.0
62.5°	2234.4	2275.4	2061.4	2400.2	2532.2	4244.1	4891.4	5966.6	6967.0	6501.6	4377.8
65°	2232.6	2221.9	1977.6	2271.8	2254.0	3917.7	4727.3	5014.4	6223.4	6145.0	4429.5
67.5°	2145.2	2148.8	1892.0	2125.6	2052.5	3454.1	4379.6	4242.3	5470.9	5576.1	4308.3
70°	2061.4	2104.2	1859.9	2063.2	2029.3	3322.1	4228.0	3817.9	5117.8	5317.6	4179.9
72.5°	1943.7	1984.7	1754.7	1933.0	1945.5	3058.2	3969.4	3332.8	4513.3	4754.1	3746.5
75°	1941.9	1993.6	1777.9	1934.8	1954.4	2908.4	4001.5	3165.2	4151.3	4474.1	3496.9
77.5°	1831.4	1877.7	1678.0	1824.2	1879.5	2632.0	3817.9	2956.6	3750.1	4112.1	3170.6
80°	1471.2	1533.6	1369.5	1465.8	1496.1	1974.0	3061.8	2421.6	3051.1	3413.1	2591.0
82.5°	1005.7	1062.8	954.0	1025.3	1064.6	1294.6	2116.7	1744.0	2073.9	2295.0	1622.7
85°	581.3	649.1	584.9	576.0	595.6	683.0	1139.5	927.3	964.7	1014.7	720.4
87.5°	365.6	376.3	344.2	345.9	349.5	374.5	518.9	413.7	456.5	517.1	436.9
90°	290.7	301.4	278.2	280.0	274.6	297.8	388.7	315.6	351.3	404.8	345.9
92.5°	251.4	258.6	242.5	246.1	242.5	260.3	324.5	260.3	288.9	331.7	283.5
95°	214.0	219.3	210.4	212.2	201.5	212.2	253.2	197.9	219.3	249.7	212.2
97.5°	171.2	176.5	171.2	171.2	160.5	165.8	194.4	153.4	167.6	187.2	160.5
100°	135.5	137.3	135.5	133.7	124.8	124.8	135.5	110.6	115.9	128.4	110.6
102.5°	103.4	105.2	103.4	101.6	90.9	85.6	85.6	71.3	74.9	78.5	69.5
105°	82.0	83.8	82.0	78.5	69.5	64.2	62.4	51.7	51.7	53.5	48.1
107.5°	67.8	67.8	67.8	64.2	58.8	51.7	46.4	37.4	37.4	39.2	37.4
110°	55.3	55.3	53.5	51.7	46.4	41.0	35.7	30.3	30.3	30.3	28.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	46.4	46.4	44.6	42.8	37.4	32.1	28.5	25.0	25.0	25.0	23.2
115°	39.2	39.2	37.4	35.7	32.1	26.7	23.2	19.6	19.6	19.6	19.6
117.5°	33.9	33.9	32.1	30.3	26.7	23.2	19.6	16.0	16.0	16.0	16.0
120°	30.3	28.5	26.7	25.0	21.4	19.6	16.0	14.3	14.3	14.3	12.5
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





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6
2.5°	107.0	107.0	105.2	105.2	105.2	103.4	103.4	105.2	105.2	105.2	105.2
5°	114.1	112.3	108.8	105.2	103.4	101.6	99.9	99.9	103.4	103.4	103.4
7.5°	128.4	126.6	121.3	117.7	114.1	110.6	108.8	107.0	108.8	110.6	110.6
10°	142.7	140.9	133.7	128.4	126.6	123.0	121.3	119.5	121.3	121.3	121.3
12.5°	156.9	153.4	148.0	140.9	137.3	135.5	133.7	132.0	132.0	132.0	132.0
15°	169.4	164.1	158.7	153.4	149.8	146.2	144.4	142.7	144.4	146.2	146.2
17.5°	189.0	183.7	171.2	162.3	160.5	156.9	155.1	155.1	156.9	158.7	158.7
20°	210.4	199.7	185.5	176.5	174.8	169.4	167.6	167.6	169.4	171.2	171.2
22.5°	228.3	221.1	199.7	187.2	185.5	183.7	185.5	185.5	187.2	189.0	189.0
25°	290.7	262.1	231.8	222.9	221.1	217.6	214.0	212.2	214.0	219.3	221.1
27.5°	392.3	340.6	283.5	263.9	263.9	267.5	274.6	278.2	271.0	267.5	269.3
30°	460.1	390.5	308.5	290.7	294.2	312.1	328.1	338.8	331.7	326.3	328.1
32.5°	442.2	378.0	319.2	315.6	326.3	340.6	349.5	354.9	369.1	374.5	381.6
35°	403.0	354.9	322.8	337.0	344.2	344.2	344.2	344.2	370.9	395.9	403.0
37.5°	492.2	410.1	383.4	388.7	383.4	378.0	383.4	397.7	420.8	440.5	445.8
40°	577.8	474.3	429.8	426.2	424.4	442.2	474.3	499.3	506.4	488.6	492.2
42.5°	672.3	536.7	479.7	485.0	499.3	527.8	563.5	563.5	563.5	547.4	552.8
45°	761.4	609.9	576.0	590.2	590.2	604.5	624.1	611.6	627.7	634.8	643.7
47.5°	866.6	707.9	633.0	620.6	622.3	650.9	658.0	652.7	663.4	650.9	650.9
50°	898.7	724.0	665.1	713.3	713.3	681.2	654.4	658.0	688.3	722.2	729.3
52.5°	1143.0	897.0	843.5	893.4	914.8	859.5	859.5	866.6	873.8	898.7	905.9
55°	1710.1	1278.6	1118.1	1234.0	1250.0	1283.9	1376.6	1362.4	1280.3	1239.3	1235.8
57.5°	2557.1	1897.3	1392.7	1556.7	1660.2	1799.3	1868.8	1827.8	1717.2	1679.8	1638.8
60°	3268.6	2598.1	1804.6	2089.9	2245.1	2268.3	2243.3	2246.9	2163.0	2189.8	2179.1
62.5°	3532.6	3188.4	2320.0	2492.9	2516.1	2444.8	2510.8	2662.3	2526.8	2446.6	2434.1
65°	3611.0	3407.7	2464.4	2352.1	2330.7	2318.2	2578.5	2831.7	2528.6	2341.4	2339.6
67.5°	3532.6	3183.0	2280.7	2095.3	2145.2	2246.9	2585.7	2680.2	2394.9	2188.0	2173.7
70°	3430.9	2821.0	2052.5	1892.0	2007.9	2155.9	2371.7	2334.2	2221.9	2038.2	2029.3
72.5°	3061.8	2444.8	1906.3	1772.5	1904.5	1947.3	2054.3	2038.2	2070.3	1954.4	1949.1
75°	2740.8	2245.1	1818.9	1662.0	1726.2	1719.0	1804.6	1824.2	1915.2	1865.2	1845.6
77.5°	2364.5	1952.6	1603.1	1421.2	1446.2	1444.4	1485.4	1497.9	1562.1	1565.7	1544.3
80°	1851.0	1530.0	1251.8	1069.9	1073.5	1041.4	1046.7	1045.0	1057.4	1071.7	1052.1
82.5°	1062.8	854.2	709.7	593.8	568.8	526.0	517.1	520.7	515.3	511.8	511.8
85°	520.7	404.8	372.7	333.5	319.2	308.5	313.8	324.5	329.9	319.2	313.8
87.5°	351.3	303.1	288.9	272.8	265.7	255.0	262.1	271.0	278.2	269.3	267.5
90°	278.2	240.7	237.2	233.6	228.3	219.3	226.5	237.2	242.5	235.4	231.8
92.5°	224.7	194.4	194.4	192.6	187.2	180.1	189.0	197.9	203.3	197.9	196.2
95°	173.0	149.8	155.1	151.6	146.2	144.4	149.8	156.9	160.5	156.9	156.9
97.5°	133.7	117.7	123.0	121.3	114.1	112.3	115.9	121.3	124.8	121.3	119.5
100°	90.9	83.8	90.9	90.9	83.8	80.2	83.8	89.2	90.9	90.9	89.2
102.5°	60.6	57.1	66.0	67.8	64.2	60.6	62.4	66.0	67.8	67.8	67.8
105°	42.8	42.8	51.7	53.5	49.9	46.4	49.9	51.7	51.7	51.7	51.7
107.5°	33.9	35.7	41.0	44.6	41.0	37.4	39.2	41.0	41.0	41.0	42.8
110°	28.5	28.5	33.9	37.4	33.9	32.1	32.1	32.1	32.1	33.9	37.4



REPORT NUMBER: P588355  
 CATALOG NUMBER: GAT-CA6-LED-100-730-U-33-5-6-X

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	23.2	25.0	28.5	30.3	28.5	26.7	26.7	26.7	26.7	28.5	33.9
115°	19.6	21.4	25.0	25.0	23.2	23.2	23.2	21.4	21.4	23.2	32.1
117.5°	16.0	17.8	19.6	19.6	19.6	17.8	17.8	17.8	17.8	21.4	33.9
120°	14.3	14.3	16.0	16.0	14.3	14.3	14.3	14.3	12.5	17.8	26.7
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)