

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: P588531

Luminaire Tested: **GAT-CA6-LED-80-750-U-33-5-6-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588531  
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-80-750-U-33-5-6-X  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR  
Light Source: (6) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8056 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U3 - G3

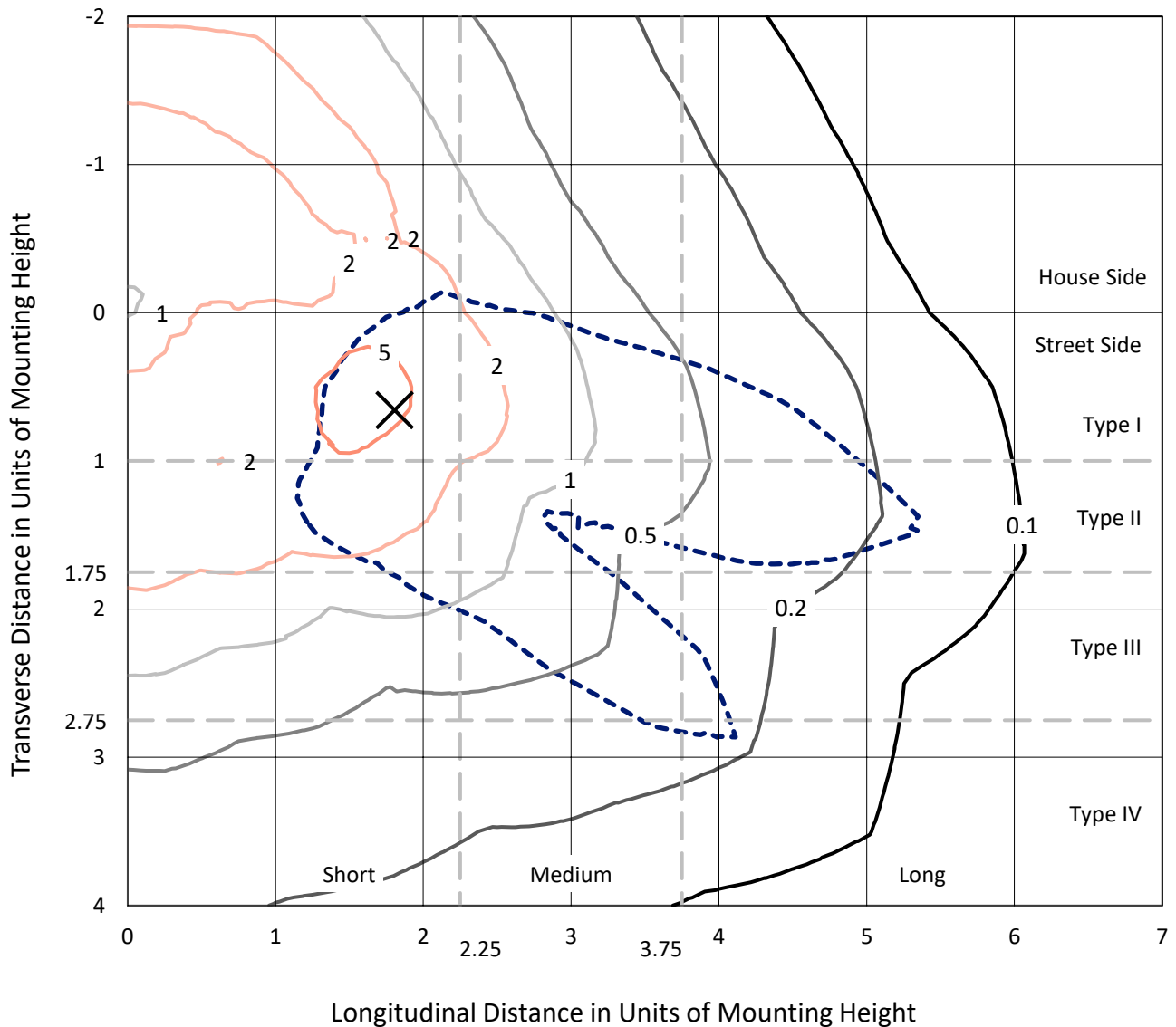
Input Watts (W): 84.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

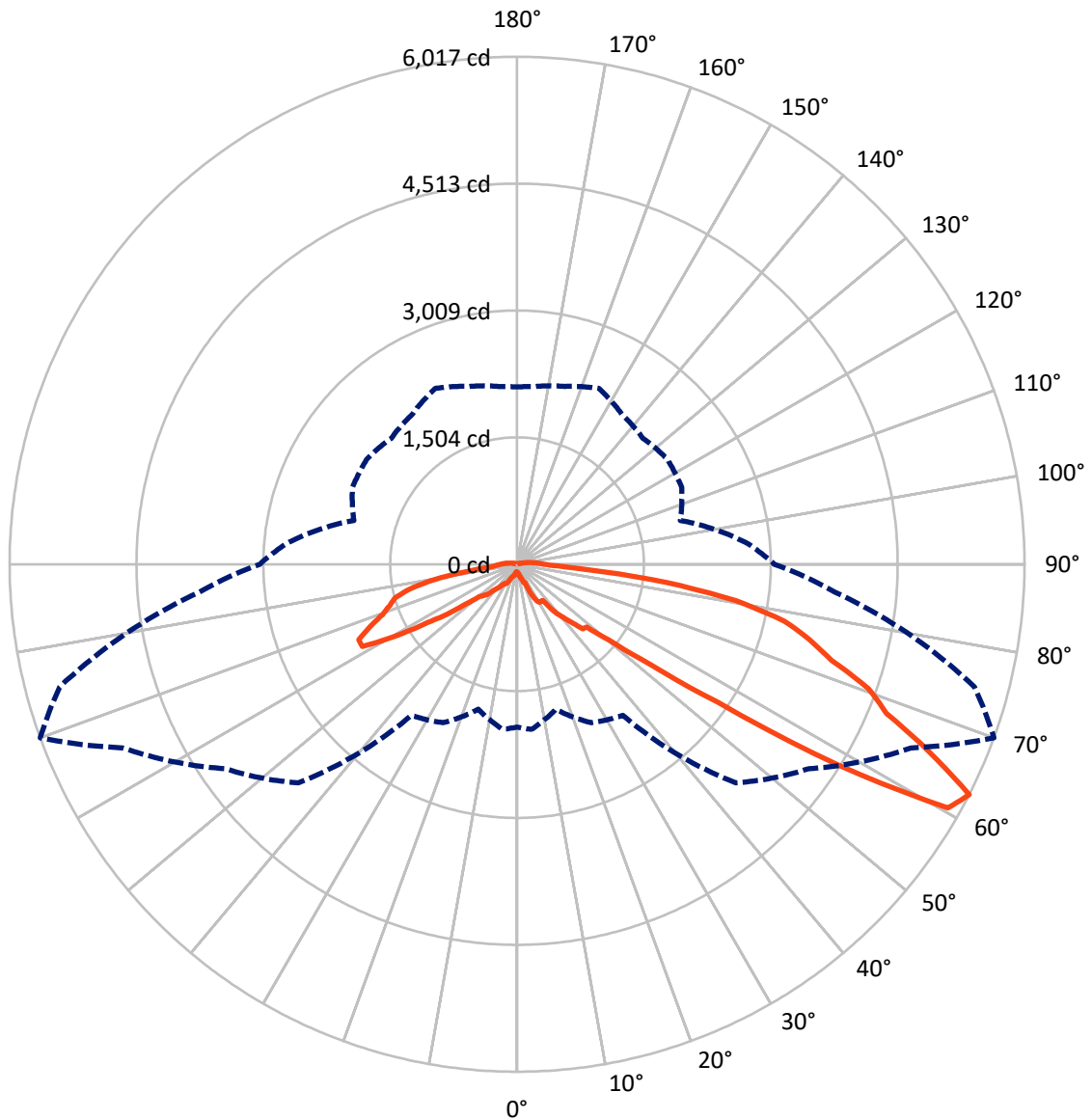
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 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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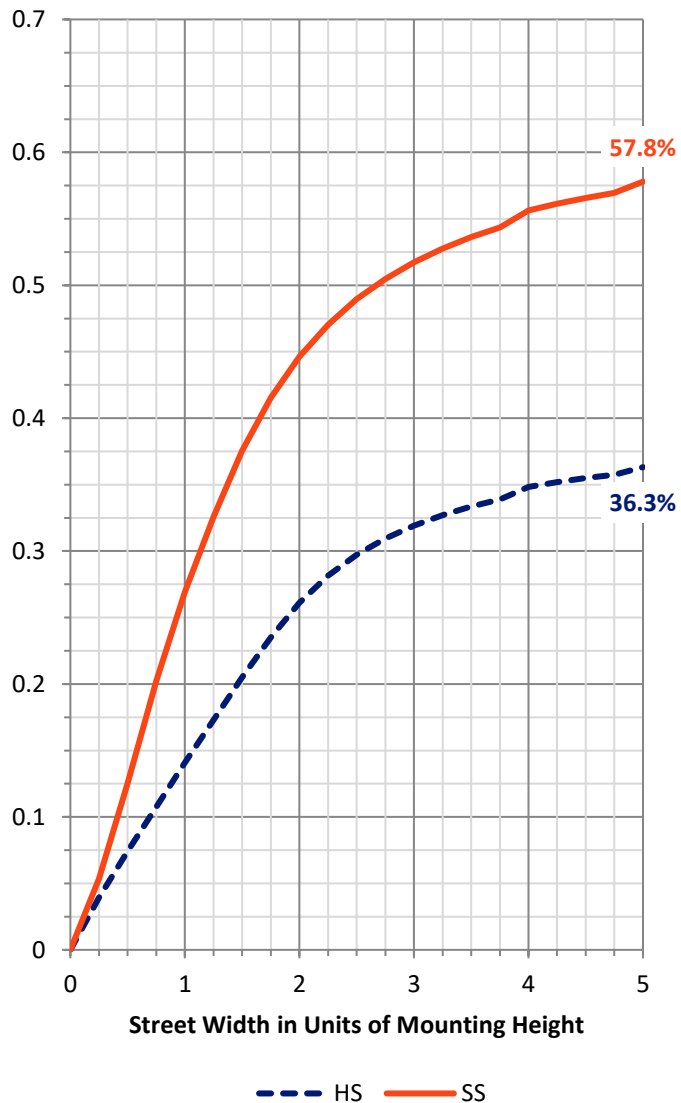
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2985.7	109.4	3095.2
	% Fixture	37.1	1.4	38.4
<b>Street Side</b>	Lumens	4810.4	150.4	4960.8
	% Fixture	59.7	1.9	61.6
<b>Total</b>	Lumens	7796.2	259.8	8056.0
	% Fixture	96.8	3.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.2	0.1
10°-20°	43.8	0.5
20°-30°	135.9	1.7
30°-40°	291.5	3.6
40°-50°	546.0	6.8
50°-60°	1417.0	17.6
60°-70°	2595.6	32.2
70°-80°	2082.0	25.8
80°-90°	674.2	8.4
90°-100°	177.6	2.2
100°-110°	57.8	0.7
110°-120°	22.7	0.3
120°-130°	1.8	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°	7796.2	96.8
0°-180°	8056.0	100.0

**Coefficient of Utilization**



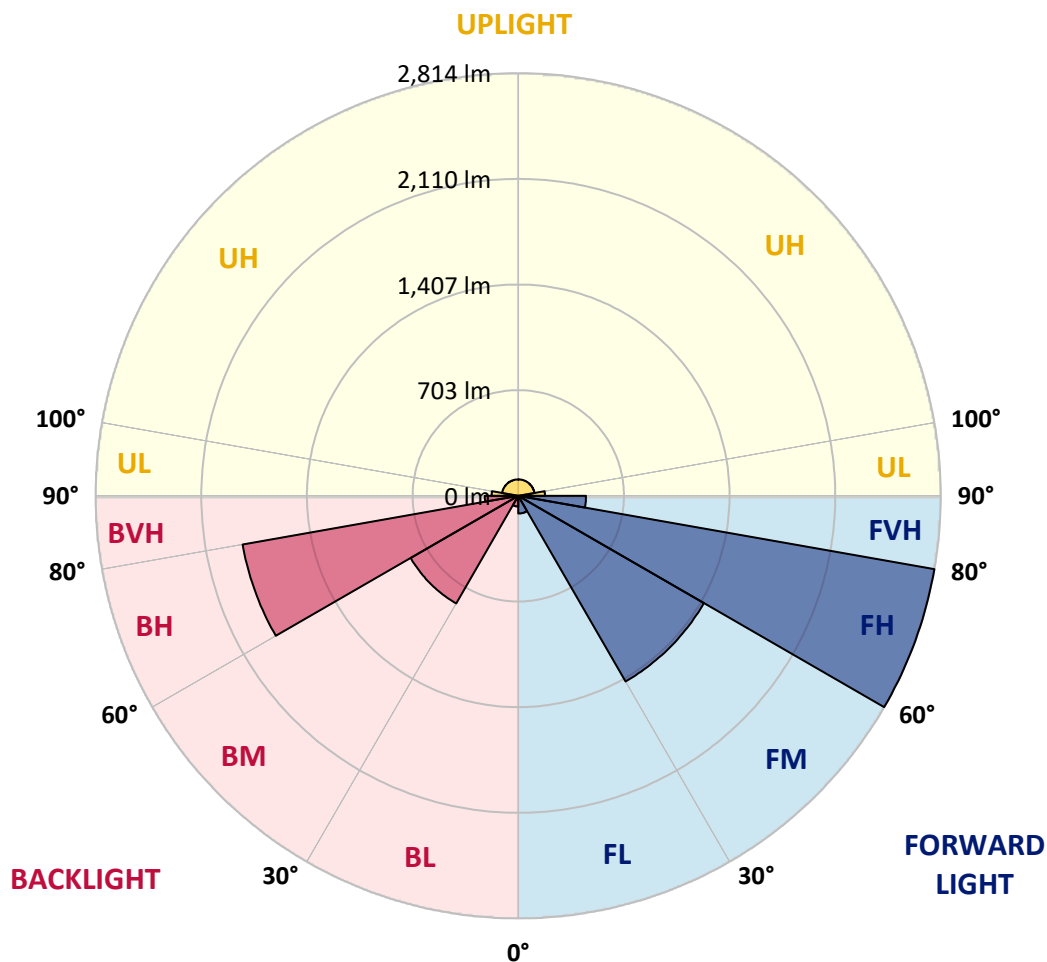
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	118.2	1.5			
FM (30°-60°)	1427.4	17.7			
FH (60°-80°)	2813.8	34.9			G2/5000
FVH (80°-90°)	451.0	5.6			G3/500
BL (0°-30°)	71.7	0.9	B0/110		
BM (30°-60°)	827.1	10.3	B1/1000		
BH (60°-80°)	1863.8	23.1	B3/2500		G3/2500
BVH (80°-90°)	223.1	2.8			G2/225
UL (90°-100°)	177.6	2.2		U3/500	
UH (100°-180°)	109.4	1.4		U3/500	

**BUG Rating: B3-U3-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
2.5°	103.2	103.2	103.2	101.6	100.1	98.6	97.0	97.0	95.5	93.9	92.4
5°	112.4	110.9	109.3	106.3	104.7	104.7	103.2	103.2	103.2	101.6	100.1
7.5°	124.7	124.7	123.2	121.7	120.1	118.6	117.0	115.5	115.5	114.0	112.4
10°	141.7	141.7	141.7	140.1	140.1	138.6	135.5	134.0	130.9	129.4	124.7
12.5°	158.6	160.2	157.1	157.1	157.1	155.5	152.5	150.9	147.8	144.8	138.6
15°	175.6	174.0	172.5	170.9	174.0	174.0	172.5	172.5	166.3	161.7	150.9
17.5°	191.0	191.0	192.5	192.5	197.1	195.6	195.6	194.0	191.0	183.3	169.4
20°	215.6	217.1	217.1	217.1	232.5	238.7	240.2	241.8	237.2	221.8	194.0
22.5°	240.2	241.8	252.6	249.5	249.5	249.5	264.9	257.2	237.2	218.7	203.3
25°	325.0	329.6	332.7	343.4	355.8	389.6	443.5	426.6	395.8	332.7	280.3
27.5°	406.6	412.7	468.2	545.2	556.0	515.9	554.4	503.6	488.2	423.5	380.4
30°	443.5	454.3	549.8	602.2	620.6	568.3	623.7	526.7	522.1	475.9	438.9
32.5°	452.8	460.5	565.2	571.4	576.0	569.8	653.0	534.4	523.6	477.4	423.5
35°	438.9	448.2	519.0	483.6	485.1	594.5	750.0	576.0	526.7	446.6	386.6
37.5°	540.6	540.6	600.6	609.9	649.9	782.3	982.6	760.8	705.3	582.1	508.2
40°	616.0	623.7	719.2	754.6	760.8	873.2	1230.5	891.7	813.1	651.4	594.5
42.5°	717.7	716.1	803.9	828.5	845.5	887.1	1258.2	1025.7	933.3	737.7	694.6
45°	734.6	759.2	839.3	811.6	833.2	939.4	1313.7	1215.1	1091.9	900.9	811.6
47.5°	666.8	700.7	862.4	839.3	753.1	802.4	1053.4	1247.4	1111.9	925.6	862.4
50°	719.2	737.7	817.8	802.4	686.9	853.2	1156.6	1563.2	1412.2	1101.1	939.4
52.5°	930.2	970.2	984.1	1044.2	988.7	1276.7	1618.6	1980.5	1960.5	1594.0	1239.7
55°	1195.1	1253.6	1315.2	1543.1	1575.5	2005.1	2259.3	2645.8	2886.1	2521.1	1902.0
57.5°	1481.5	1564.7	1544.7	1875.8	1926.6	2716.7	2950.7	3856.3	4498.5	4002.6	2786.0
60°	1758.7	1814.2	1701.8	1992.8	2089.8	3420.5	3763.9	5022.1	5867.6	5339.4	3431.2
62.5°	1929.7	1965.1	1780.3	2072.9	2186.9	3665.3	4224.4	5153.0	6017.0	5615.0	3780.8
65°	1928.1	1918.9	1707.9	1962.0	1946.6	3383.5	4082.7	4330.6	5374.8	5307.0	3825.5
67.5°	1852.7	1855.8	1634.0	1835.7	1772.6	2983.1	3782.4	3663.8	4724.9	4815.7	3720.8
70°	1780.3	1817.3	1606.3	1781.8	1752.6	2869.1	3651.5	3297.2	4419.9	4592.4	3609.9
72.5°	1678.7	1714.1	1515.4	1669.4	1680.2	2641.2	3428.2	2878.4	3897.9	4105.8	3235.6
75°	1677.1	1721.8	1535.4	1671.0	1687.9	2511.8	3455.9	2733.6	3585.2	3864.0	3020.0
77.5°	1581.6	1621.7	1449.2	1575.5	1623.2	2273.1	3297.2	2553.4	3238.7	3551.4	2738.2
80°	1270.5	1324.4	1182.8	1265.9	1292.1	1704.8	2644.3	2091.4	2635.0	2947.7	2237.7
82.5°	868.6	917.9	823.9	885.5	919.4	1118.1	1828.0	1506.2	1791.1	1982.0	1401.4
85°	502.1	560.6	505.1	497.4	514.4	589.8	984.1	800.8	833.2	876.3	622.2
87.5°	315.7	325.0	297.2	298.8	301.9	323.4	448.2	357.3	394.3	446.6	377.3
90°	251.0	260.3	240.2	241.8	237.2	257.2	335.7	272.6	303.4	349.6	298.8
92.5°	217.1	223.3	209.4	212.5	209.4	224.8	280.3	224.8	249.5	286.4	244.9
95°	184.8	189.4	181.7	183.3	174.0	183.3	218.7	170.9	189.4	215.6	183.3
97.5°	147.8	152.5	147.8	147.8	138.6	143.2	167.9	132.4	144.8	161.7	138.6
100°	117.0	118.6	117.0	115.5	107.8	107.8	117.0	95.5	100.1	110.9	95.5
102.5°	89.3	90.9	89.3	87.8	78.5	73.9	73.9	61.6	64.7	67.8	60.1
105°	70.8	72.4	70.8	67.8	60.1	55.4	53.9	44.7	44.7	46.2	41.6
107.5°	58.5	58.5	58.5	55.4	50.8	44.7	40.0	32.3	32.3	33.9	32.3
110°	47.7	47.7	46.2	44.7	40.0	35.4	30.8	26.2	26.2	26.2	24.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	40.0	40.0	38.5	37.0	32.3	27.7	24.6	21.6	21.6	21.6	20.0
115°	33.9	33.9	32.3	30.8	27.7	23.1	20.0	16.9	16.9	16.9	16.9
117.5°	29.3	29.3	27.7	26.2	23.1	20.0	16.9	13.9	13.9	13.9	13.9
120°	26.2	24.6	23.1	21.6	18.5	16.9	13.9	12.3	12.3	12.3	10.8
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





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
2.5°	92.4	92.4	90.9	90.9	90.9	89.3	89.3	90.9	90.9	90.9	90.9
5°	98.6	97.0	93.9	90.9	89.3	87.8	86.2	86.2	89.3	89.3	89.3
7.5°	110.9	109.3	104.7	101.6	98.6	95.5	93.9	92.4	93.9	95.5	95.5
10°	123.2	121.7	115.5	110.9	109.3	106.3	104.7	103.2	104.7	104.7	104.7
12.5°	135.5	132.4	127.8	121.7	118.6	117.0	115.5	114.0	114.0	114.0	114.0
15°	146.3	141.7	137.1	132.4	129.4	126.3	124.7	123.2	124.7	126.3	126.3
17.5°	163.2	158.6	147.8	140.1	138.6	135.5	134.0	134.0	135.5	137.1	137.1
20°	181.7	172.5	160.2	152.5	150.9	146.3	144.8	144.8	146.3	147.8	147.8
22.5°	197.1	191.0	172.5	161.7	160.2	158.6	160.2	160.2	161.7	163.2	163.2
25°	251.0	226.4	200.2	192.5	191.0	187.9	184.8	183.3	184.8	189.4	191.0
27.5°	338.8	294.1	244.9	227.9	227.9	231.0	237.2	240.2	234.1	231.0	232.5
30°	397.3	337.3	266.4	251.0	254.1	269.5	283.4	292.6	286.4	281.8	283.4
32.5°	381.9	326.5	275.7	272.6	281.8	294.1	301.9	306.5	318.8	323.4	329.6
35°	348.1	306.5	278.7	291.1	297.2	297.2	297.2	297.2	320.3	341.9	348.1
37.5°	425.1	354.2	331.1	335.7	331.1	326.5	331.1	343.4	363.5	380.4	385.0
40°	499.0	409.7	371.2	368.1	366.5	381.9	409.7	431.2	437.4	422.0	425.1
42.5°	580.6	463.6	414.3	418.9	431.2	455.9	486.7	486.7	486.7	472.8	477.4
45°	657.6	526.7	497.4	509.8	509.8	522.1	539.0	528.2	542.1	548.3	556.0
47.5°	748.5	611.4	546.7	535.9	537.5	562.1	568.3	563.7	572.9	562.1	562.1
50°	776.2	625.3	574.4	616.0	616.0	588.3	565.2	568.3	594.5	623.7	629.9
52.5°	987.2	774.6	728.4	771.6	790.0	742.3	742.3	748.5	754.6	776.2	782.3
55°	1476.9	1104.2	965.6	1065.7	1079.6	1108.8	1188.9	1176.6	1105.8	1070.3	1067.3
57.5°	2208.4	1638.6	1202.8	1344.5	1433.8	1553.9	1614.0	1578.6	1483.1	1450.7	1415.3
60°	2822.9	2243.9	1558.5	1804.9	1938.9	1958.9	1937.4	1940.5	1868.1	1891.2	1881.9
62.5°	3050.8	2753.6	2003.6	2153.0	2173.0	2111.4	2168.4	2299.3	2182.3	2113.0	2102.2
65°	3118.6	2943.0	2128.4	2031.3	2012.8	2002.1	2226.9	2445.6	2183.8	2022.1	2020.5
67.5°	3050.8	2749.0	1969.7	1809.6	1852.7	1940.5	2233.1	2314.7	2068.3	1889.6	1877.3
70°	2963.1	2436.4	1772.6	1634.0	1734.1	1861.9	2048.3	2015.9	1918.9	1760.3	1752.6
72.5°	2644.3	2111.4	1646.3	1530.8	1644.8	1681.7	1774.1	1760.3	1788.0	1687.9	1683.3
75°	2367.1	1938.9	1570.9	1435.3	1490.8	1484.6	1558.5	1575.5	1654.0	1610.9	1594.0
77.5°	2042.1	1686.4	1384.5	1227.4	1249.0	1247.4	1282.9	1293.6	1349.1	1352.2	1333.7
80°	1598.6	1321.4	1081.1	924.0	927.1	899.4	904.0	902.5	913.3	925.6	908.6
82.5°	917.9	737.7	612.9	512.8	491.3	454.3	446.6	449.7	445.1	442.0	442.0
85°	449.7	349.6	321.9	288.0	275.7	266.4	271.0	280.3	284.9	275.7	271.0
87.5°	303.4	261.8	249.5	235.6	229.5	220.2	226.4	234.1	240.2	232.5	231.0
90°	240.2	207.9	204.8	201.7	197.1	189.4	195.6	204.8	209.4	203.3	200.2
92.5°	194.0	167.9	167.9	166.3	161.7	155.5	163.2	170.9	175.6	170.9	169.4
95°	149.4	129.4	134.0	130.9	126.3	124.7	129.4	135.5	138.6	135.5	135.5
97.5°	115.5	101.6	106.3	104.7	98.6	97.0	100.1	104.7	107.8	104.7	103.2
100°	78.5	72.4	78.5	78.5	72.4	69.3	72.4	77.0	78.5	78.5	77.0
102.5°	52.4	49.3	57.0	58.5	55.4	52.4	53.9	57.0	58.5	58.5	58.5
105°	37.0	37.0	44.7	46.2	43.1	40.0	43.1	44.7	44.7	44.7	44.7
107.5°	29.3	30.8	35.4	38.5	35.4	32.3	33.9	35.4	35.4	35.4	37.0
110°	24.6	24.6	29.3	32.3	29.3	27.7	27.7	27.7	27.7	29.3	32.3



REPORT NUMBER: P588531  
 CATALOG NUMBER: GAT-CA6-LED-80-750-U-33-5-6-X

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	20.0	21.6	24.6	26.2	24.6	23.1	23.1	23.1	23.1	24.6	29.3
115°	16.9	18.5	21.6	21.6	20.0	20.0	20.0	18.5	18.5	20.0	27.7
117.5°	13.9	15.4	16.9	16.9	16.9	15.4	15.4	15.4	15.4	18.5	29.3
120°	12.3	12.3	13.9	13.9	12.3	12.3	12.3	12.3	10.8	15.4	23.1
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)