

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: P588543

Luminaire Tested: **GAT-CA6-LED-90-727-U-33-5-6-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588543  
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-90-727-U-33-5-6-X  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR  
Light Source: (6) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8173 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U3 - G3

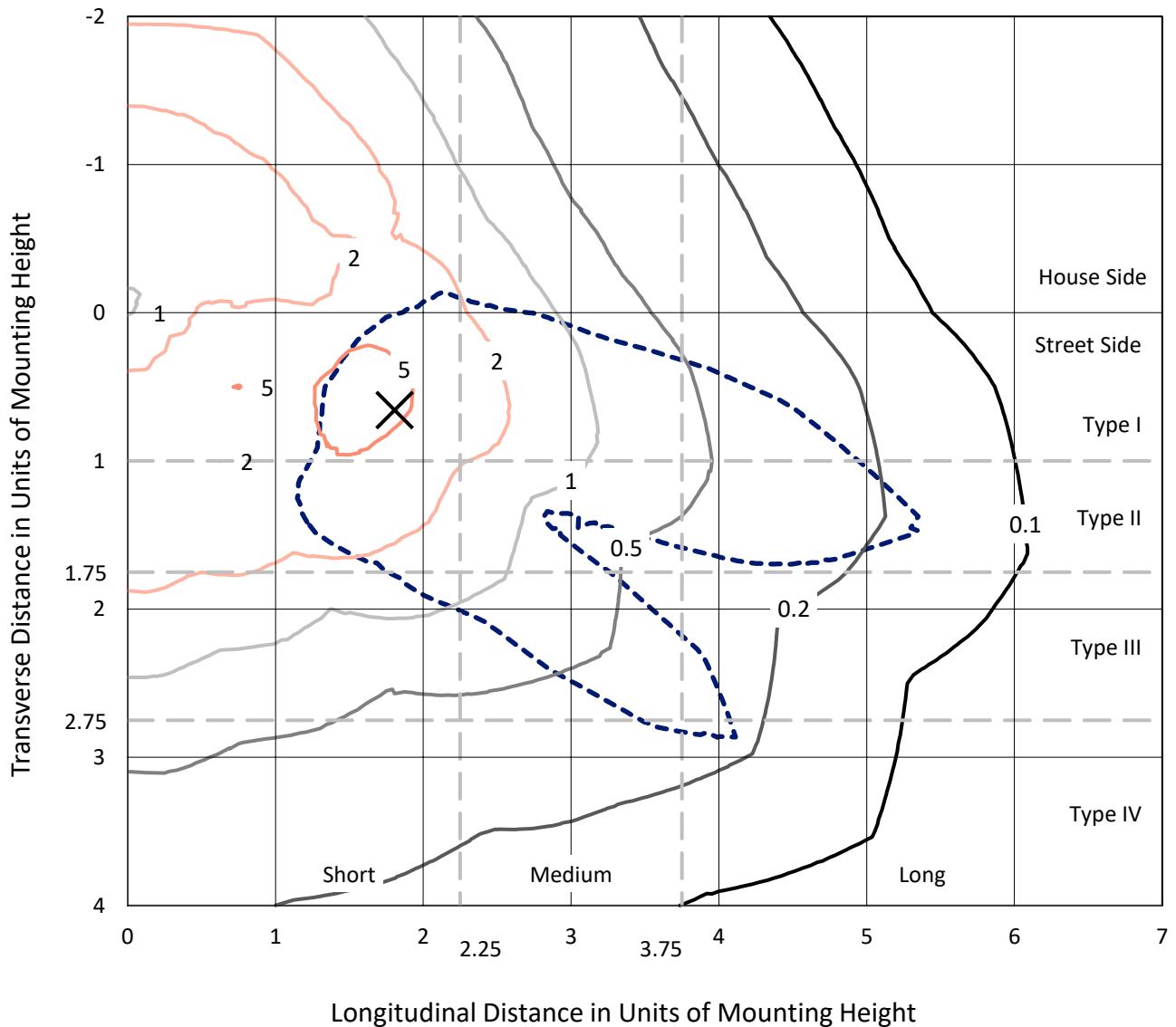
Input Watts (W): 93.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

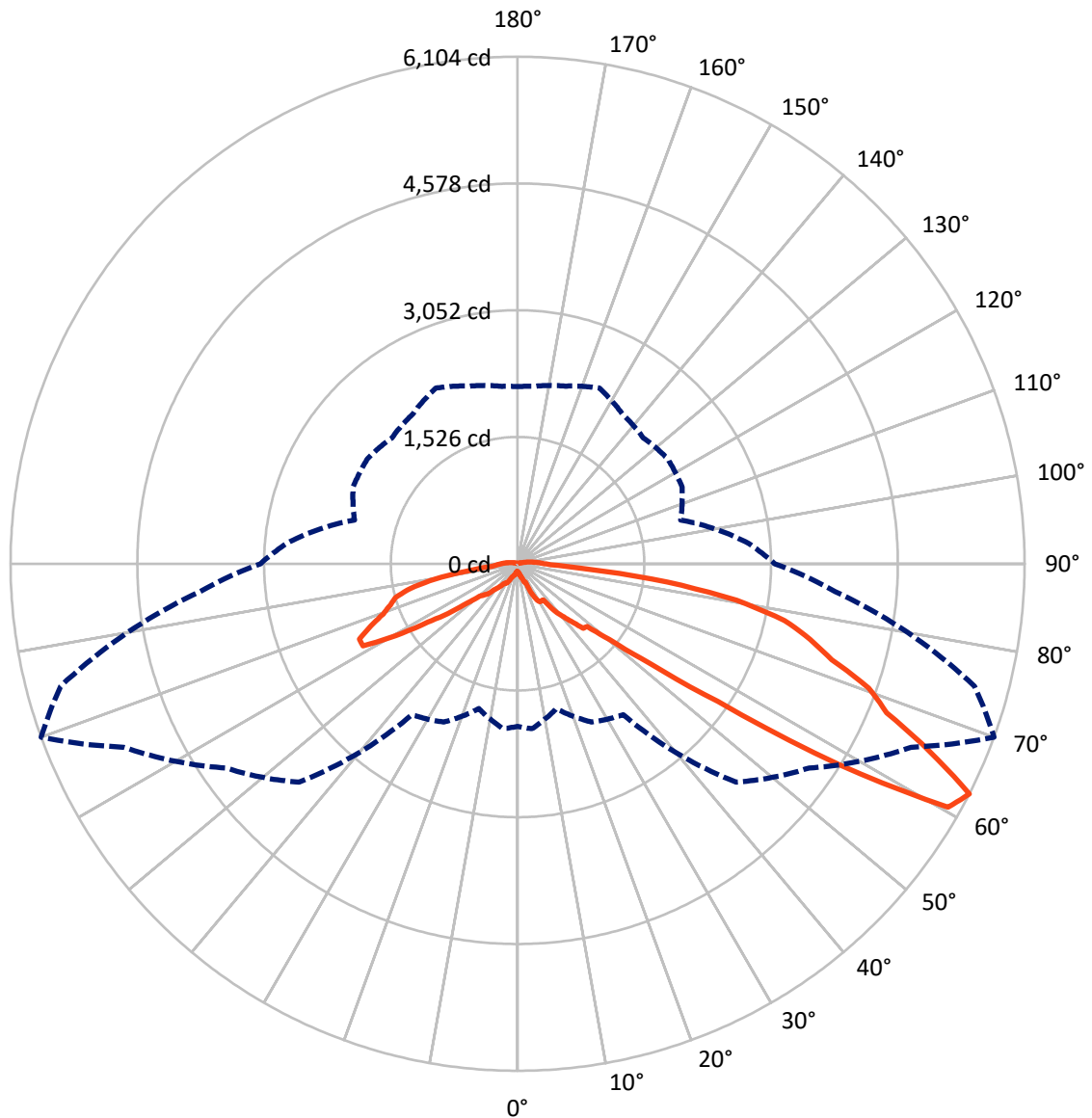
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 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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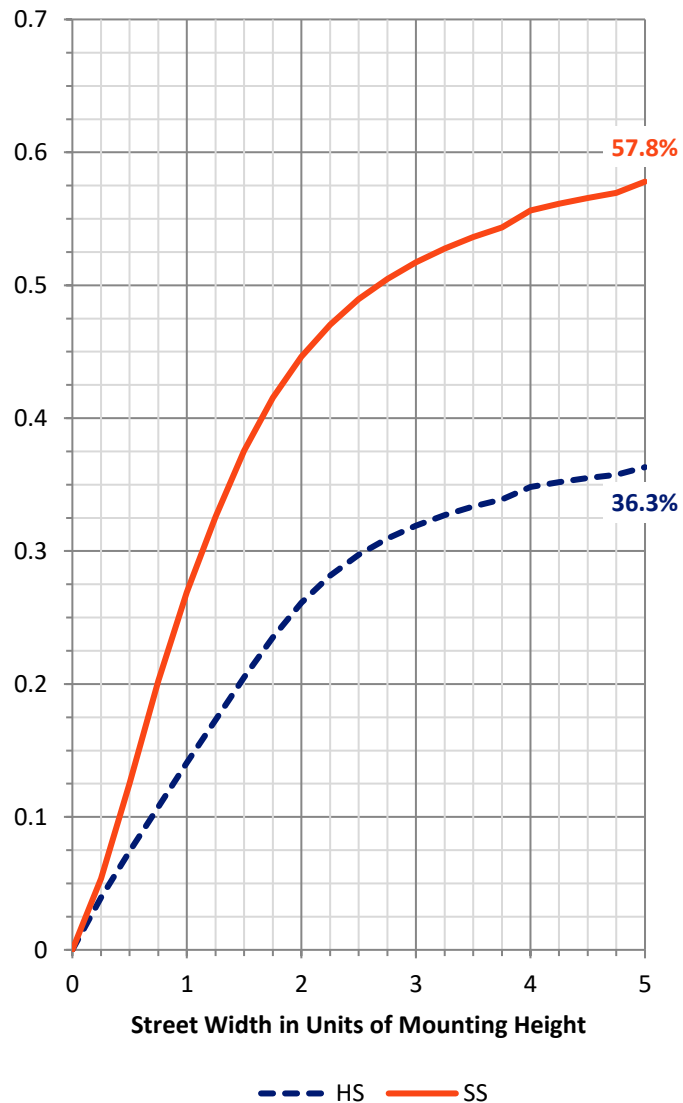
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3029.1	111.0	3140.1
	% Fixture	37.1	1.4	38.4
<b>Street Side</b>	Lumens	4880.3	152.6	5032.9
	% Fixture	59.7	1.9	61.6
<b>Total</b>	Lumens	7909.4	263.6	8173.0
	% Fixture	96.8	3.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.3	0.1
10°-20°	44.5	0.5
20°-30°	137.9	1.7
30°-40°	295.7	3.6
40°-50°	554.0	6.8
50°-60°	1437.5	17.6
60°-70°	2633.3	32.2
70°-80°	2112.2	25.8
80°-90°	683.9	8.4
90°-100°	180.2	2.2
100°-110°	58.6	0.7
110°-120°	23.0	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°	7909.4	96.8
0°-180°	8173.0	100.0

**Coefficient of Utilization**



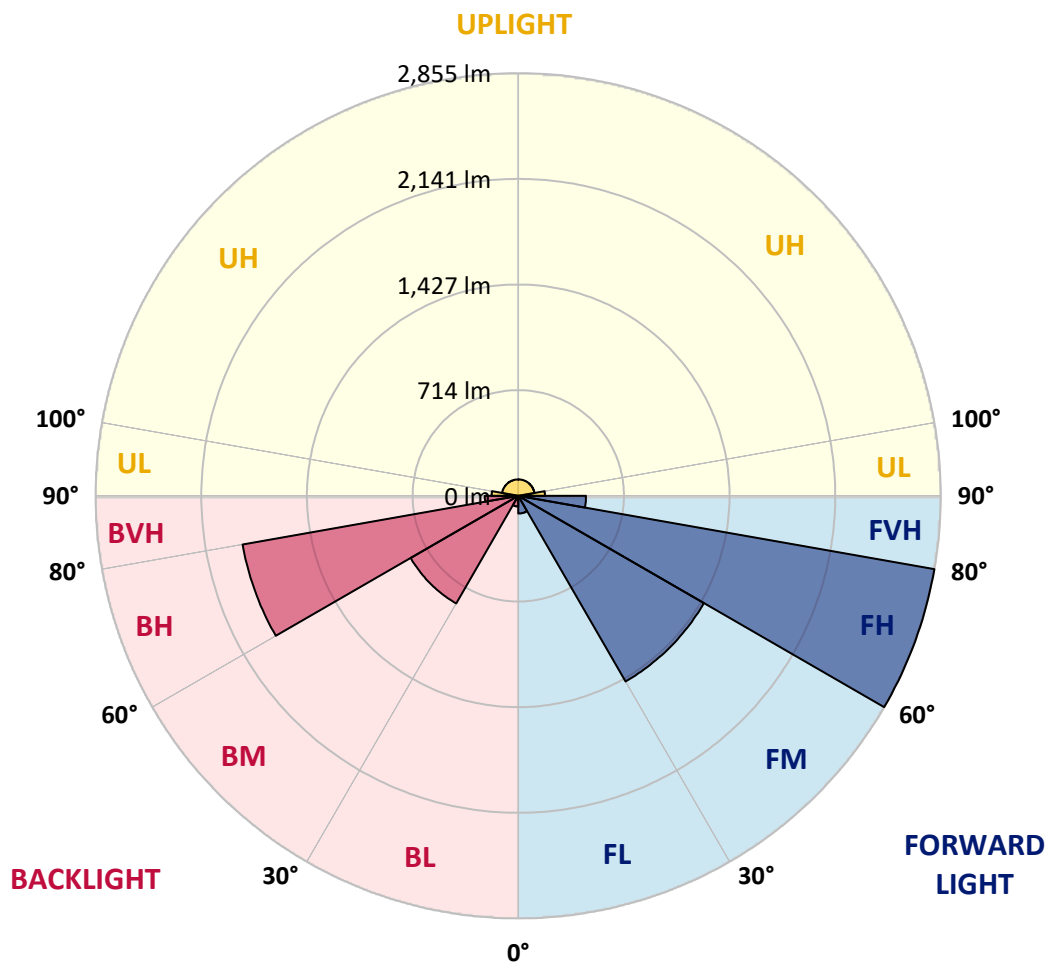
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	119.9	1.5			
FM (30°-60°)	1448.1	17.7			
FH (60°-80°)	2854.6	34.9			G2/5000
FVH (80°-90°)	457.6	5.6			G3/500
BL (0°-30°)	72.8	0.9	B0/110		
BM (30°-60°)	839.1	10.3	B1/1000		
BH (60°-80°)	1890.9	23.1	B3/2500		G3/2500
BVH (80°-90°)	226.4	2.8			G3/500
UL (90°-100°)	180.2	2.2		U3/500	
UH (100°-180°)	111.0	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°	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
2.5°	104.7	104.7	104.7	103.1	101.6	100.0	98.4	98.4	96.9	95.3	93.7
5°	114.1	112.5	110.9	107.8	106.2	106.2	104.7	104.7	104.7	103.1	101.6
7.5°	126.6	126.6	125.0	123.4	121.9	120.3	118.7	117.2	117.2	115.6	114.1
10°	143.7	143.7	143.7	142.2	142.2	140.6	137.5	135.9	132.8	131.2	126.6
12.5°	160.9	162.5	159.4	159.4	159.4	157.8	154.7	153.1	150.0	146.9	140.6
15°	178.1	176.6	175.0	173.4	176.6	176.6	175.0	175.0	168.7	164.1	153.1
17.5°	193.7	193.7	195.3	195.3	200.0	198.4	198.4	196.9	193.7	185.9	171.9
20°	218.7	220.3	220.3	220.3	235.9	242.2	243.7	245.3	240.6	225.0	196.9
22.5°	243.7	245.3	256.2	253.1	253.1	253.1	268.7	260.9	240.6	221.9	206.2
25°	329.7	334.4	337.5	348.4	360.9	395.3	450.0	432.8	401.5	337.5	284.4
27.5°	412.5	418.7	475.0	553.1	564.0	523.4	562.5	510.9	495.3	429.7	385.9
30°	450.0	460.9	557.8	610.9	629.7	576.5	632.8	534.3	529.7	482.8	445.3
32.5°	459.4	467.2	573.4	579.7	584.3	578.1	662.5	542.2	531.2	484.3	429.7
35°	445.3	454.7	526.5	490.6	492.2	603.1	760.9	584.3	534.3	453.1	392.2
37.5°	548.4	548.4	609.3	618.7	659.3	793.7	996.8	771.8	715.6	590.6	515.6
40°	625.0	632.8	729.6	765.6	771.8	885.9	1248.4	904.6	825.0	660.9	603.1
42.5°	728.1	726.5	815.6	840.6	857.8	900.0	1276.5	1040.6	946.8	748.4	704.7
45°	745.3	770.3	851.5	823.4	845.3	953.1	1332.7	1232.7	1107.8	914.0	823.4
47.5°	676.5	710.9	875.0	851.5	764.0	814.0	1068.7	1265.6	1128.1	939.0	875.0
50°	729.6	748.4	829.6	814.0	696.8	865.6	1173.4	1585.9	1432.7	1117.1	953.1
52.5°	943.7	984.3	998.4	1059.3	1003.1	1295.2	1642.1	2009.3	1989.0	1617.1	1257.7
55°	1212.4	1271.8	1334.3	1565.5	1598.4	2034.3	2292.1	2684.2	2928.0	2557.7	1929.6
57.5°	1503.0	1587.4	1567.1	1903.0	1954.6	2756.1	2993.6	3912.3	4563.8	4060.7	2826.4
60°	1784.3	1840.5	1726.5	2021.8	2120.2	3470.1	3818.5	5095.0	5952.8	5416.9	3481.1
62.5°	1957.7	1993.6	1806.2	2103.0	2218.6	3718.6	4285.7	5227.9	6104.4	5696.6	3835.7
65°	1956.1	1946.8	1732.7	1990.5	1974.9	3432.6	4142.0	4393.5	5452.8	5384.1	3881.0
67.5°	1879.6	1882.7	1657.7	1862.4	1798.3	3026.4	3837.3	3717.0	4793.5	4885.7	3774.8
70°	1806.2	1843.7	1629.6	1807.7	1778.0	2910.8	3704.5	3345.1	4484.1	4659.1	3662.3
72.5°	1703.0	1739.0	1537.4	1693.7	1704.6	2679.5	3477.9	2920.2	3954.5	4165.4	3282.6
75°	1701.5	1746.8	1557.7	1695.2	1712.4	2548.3	3506.1	2773.3	3637.3	3920.1	3063.9
77.5°	1604.6	1645.2	1470.2	1598.4	1646.8	2306.1	3345.1	2590.5	3285.8	3602.9	2778.0
80°	1289.0	1343.7	1199.9	1284.3	1310.9	1729.6	2682.7	2121.8	2673.3	2990.5	2270.2
82.5°	881.2	931.2	835.9	898.4	932.8	1134.3	1854.6	1528.0	1817.1	2010.8	1421.8
85°	509.3	568.7	512.5	504.7	521.8	598.4	998.4	812.5	845.3	889.0	631.2
87.5°	320.3	329.7	301.5	303.1	306.2	328.1	454.7	362.5	400.0	453.1	382.8
90°	254.7	264.0	243.7	245.3	240.6	260.9	340.6	276.5	307.8	354.7	303.1
92.5°	220.3	226.6	212.5	215.6	212.5	228.1	284.4	228.1	253.1	290.6	248.4
95°	187.5	192.2	184.4	185.9	176.6	185.9	221.9	173.4	192.2	218.7	185.9
97.5°	150.0	154.7	150.0	150.0	140.6	145.3	170.3	134.4	146.9	164.1	140.6
100°	118.7	120.3	118.7	117.2	109.4	109.4	118.7	96.9	101.6	112.5	96.9
102.5°	90.6	92.2	90.6	89.1	79.7	75.0	75.0	62.5	65.6	68.7	60.9
105°	71.9	73.4	71.9	68.7	60.9	56.2	54.7	45.3	45.3	46.9	42.2
107.5°	59.4	59.4	59.4	56.2	51.6	45.3	40.6	32.8	32.8	34.4	32.8
110°	48.4	48.4	46.9	45.3	40.6	35.9	31.2	26.6	26.6	26.6	25.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	40.6	40.6	39.1	37.5	32.8	28.1	25.0	21.9	21.9	21.9	20.3
115°	34.4	34.4	32.8	31.2	28.1	23.4	20.3	17.2	17.2	17.2	17.2
117.5°	29.7	29.7	28.1	26.6	23.4	20.3	17.2	14.1	14.1	14.1	14.1
120°	26.6	25.0	23.4	21.9	18.7	17.2	14.1	12.5	12.5	12.5	10.9
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°	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
2.5°	93.7	93.7	92.2	92.2	92.2	90.6	90.6	92.2	92.2	92.2	92.2
5°	100.0	98.4	95.3	92.2	90.6	89.1	87.5	87.5	90.6	90.6	90.6
7.5°	112.5	110.9	106.2	103.1	100.0	96.9	95.3	93.7	95.3	96.9	96.9
10°	125.0	123.4	117.2	112.5	110.9	107.8	106.2	104.7	106.2	106.2	106.2
12.5°	137.5	134.4	129.7	123.4	120.3	118.7	117.2	115.6	115.6	115.6	115.6
15°	148.4	143.7	139.1	134.4	131.2	128.1	126.6	125.0	126.6	128.1	128.1
17.5°	165.6	160.9	150.0	142.2	140.6	137.5	135.9	135.9	137.5	139.1	139.1
20°	184.4	175.0	162.5	154.7	153.1	148.4	146.9	146.9	148.4	150.0	150.0
22.5°	200.0	193.7	175.0	164.1	162.5	160.9	162.5	162.5	164.1	165.6	165.6
25°	254.7	229.7	203.1	195.3	193.7	190.6	187.5	185.9	187.5	192.2	193.7
27.5°	343.7	298.4	248.4	231.2	231.2	234.4	240.6	243.7	237.5	234.4	235.9
30°	403.1	342.2	270.3	254.7	257.8	273.4	287.5	296.9	290.6	285.9	287.5
32.5°	387.5	331.2	279.7	276.5	285.9	298.4	306.2	310.9	323.4	328.1	334.4
35°	353.1	310.9	282.8	295.3	301.5	301.5	301.5	301.5	325.0	346.9	353.1
37.5°	431.2	359.4	335.9	340.6	335.9	331.2	335.9	348.4	368.7	385.9	390.6
40°	506.2	415.6	376.5	373.4	371.9	387.5	415.6	437.5	443.7	428.1	431.2
42.5°	589.0	470.3	420.3	425.0	437.5	462.5	493.7	493.7	493.7	479.7	484.3
45°	667.2	534.3	504.7	517.2	517.2	529.7	546.8	535.9	550.0	556.2	564.0
47.5°	759.3	620.3	554.7	543.7	545.3	570.3	576.5	571.8	581.2	570.3	570.3
50°	787.5	634.3	582.8	625.0	625.0	596.8	573.4	576.5	603.1	632.8	639.0
52.5°	1001.5	785.9	739.0	782.8	801.5	753.1	753.1	759.3	765.6	787.5	793.7
55°	1498.4	1120.3	979.6	1081.2	1095.3	1124.9	1206.2	1193.7	1121.8	1085.9	1082.8
57.5°	2240.5	1662.4	1220.2	1364.0	1454.6	1576.5	1637.4	1601.5	1504.6	1471.8	1435.9
60°	2863.9	2276.4	1581.2	1831.2	1967.1	1987.4	1965.5	1968.6	1895.2	1918.6	1909.3
62.5°	3095.1	2793.6	2032.7	2184.3	2204.6	2142.1	2199.9	2332.7	2213.9	2143.6	2132.7
65°	3163.9	2985.8	2159.3	2060.8	2042.1	2031.1	2259.3	2481.1	2215.5	2051.5	2049.9
67.5°	3095.1	2788.9	1998.3	1835.8	1879.6	1968.6	2265.5	2348.3	2098.3	1917.1	1904.6
70°	3006.1	2471.7	1798.3	1657.7	1759.3	1889.0	2078.0	2045.2	1946.8	1785.8	1778.0
72.5°	2682.7	2142.1	1670.2	1553.0	1668.7	1706.2	1799.9	1785.8	1814.0	1712.4	1707.7
75°	2401.4	1967.1	1593.7	1456.2	1512.4	1506.2	1581.2	1598.4	1678.0	1634.3	1617.1
77.5°	2071.8	1710.8	1404.6	1245.2	1267.1	1265.6	1301.5	1312.4	1368.7	1371.8	1353.1
80°	1621.8	1340.6	1096.8	937.5	940.6	912.5	917.1	915.6	926.5	939.0	921.8
82.5°	931.2	748.4	621.8	520.3	498.4	460.9	453.1	456.2	451.5	448.4	448.4
85°	456.2	354.7	326.5	292.2	279.7	270.3	275.0	284.4	289.0	279.7	275.0
87.5°	307.8	265.6	253.1	239.0	232.8	223.4	229.7	237.5	243.7	235.9	234.4
90°	243.7	210.9	207.8	204.7	200.0	192.2	198.4	207.8	212.5	206.2	203.1
92.5°	196.9	170.3	170.3	168.7	164.1	157.8	165.6	173.4	178.1	173.4	171.9
95°	151.6	131.2	135.9	132.8	128.1	126.6	131.2	137.5	140.6	137.5	137.5
97.5°	117.2	103.1	107.8	106.2	100.0	98.4	101.6	106.2	109.4	106.2	104.7
100°	79.7	73.4	79.7	79.7	73.4	70.3	73.4	78.1	79.7	79.7	78.1
102.5°	53.1	50.0	57.8	59.4	56.2	53.1	54.7	57.8	59.4	59.4	59.4
105°	37.5	37.5	45.3	46.9	43.7	40.6	43.7	45.3	45.3	45.3	45.3
107.5°	29.7	31.2	35.9	39.1	35.9	32.8	34.4	35.9	35.9	35.9	37.5
110°	25.0	25.0	29.7	32.8	29.7	28.1	28.1	28.1	28.1	29.7	32.8



REPORT NUMBER: P588543  
 CATALOG NUMBER: GAT-CA6-LED-90-727-U-33-5-6-X

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	20.3	21.9	25.0	26.6	25.0	23.4	23.4	23.4	23.4	25.0	29.7
115°	17.2	18.7	21.9	21.9	20.3	20.3	20.3	18.7	18.7	20.3	28.1
117.5°	14.1	15.6	17.2	17.2	17.2	15.6	15.6	15.6	15.6	18.7	29.7
120°	12.5	12.5	14.1	14.1	12.5	12.5	12.5	12.5	10.9	15.6	23.4
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

(END OF REPORT)