

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: P588548

Luminaire Tested: **GAT-CA6-LED-90-730-U-33-5-X-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588548  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-9)  
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-90-730-U-33-5-X-X  
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR  
Light Source: (6) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12594 lumens  
Efficiency: N/A  
Efficacy: 134.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U4 - G5

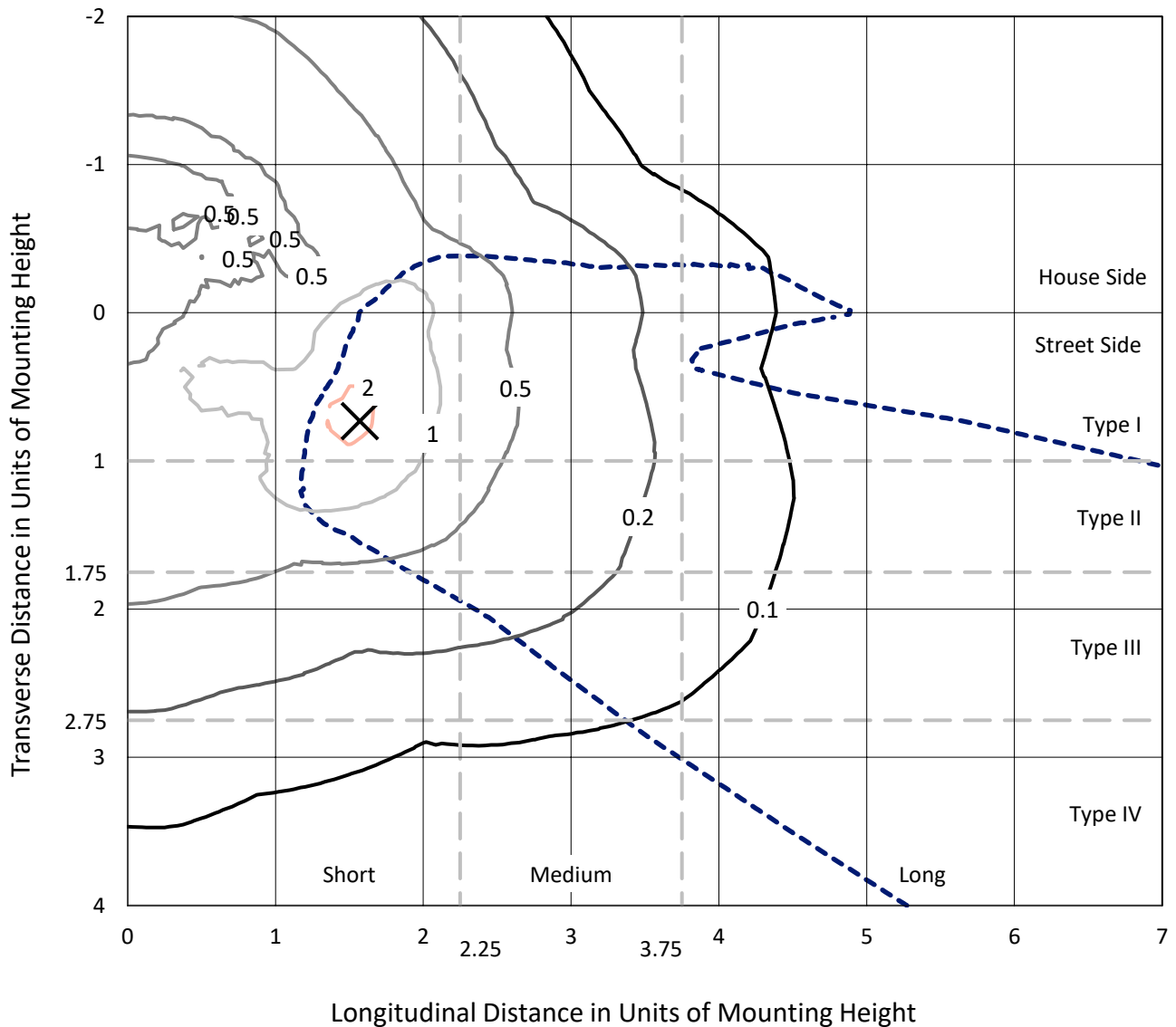
Input Watts (W): 93.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

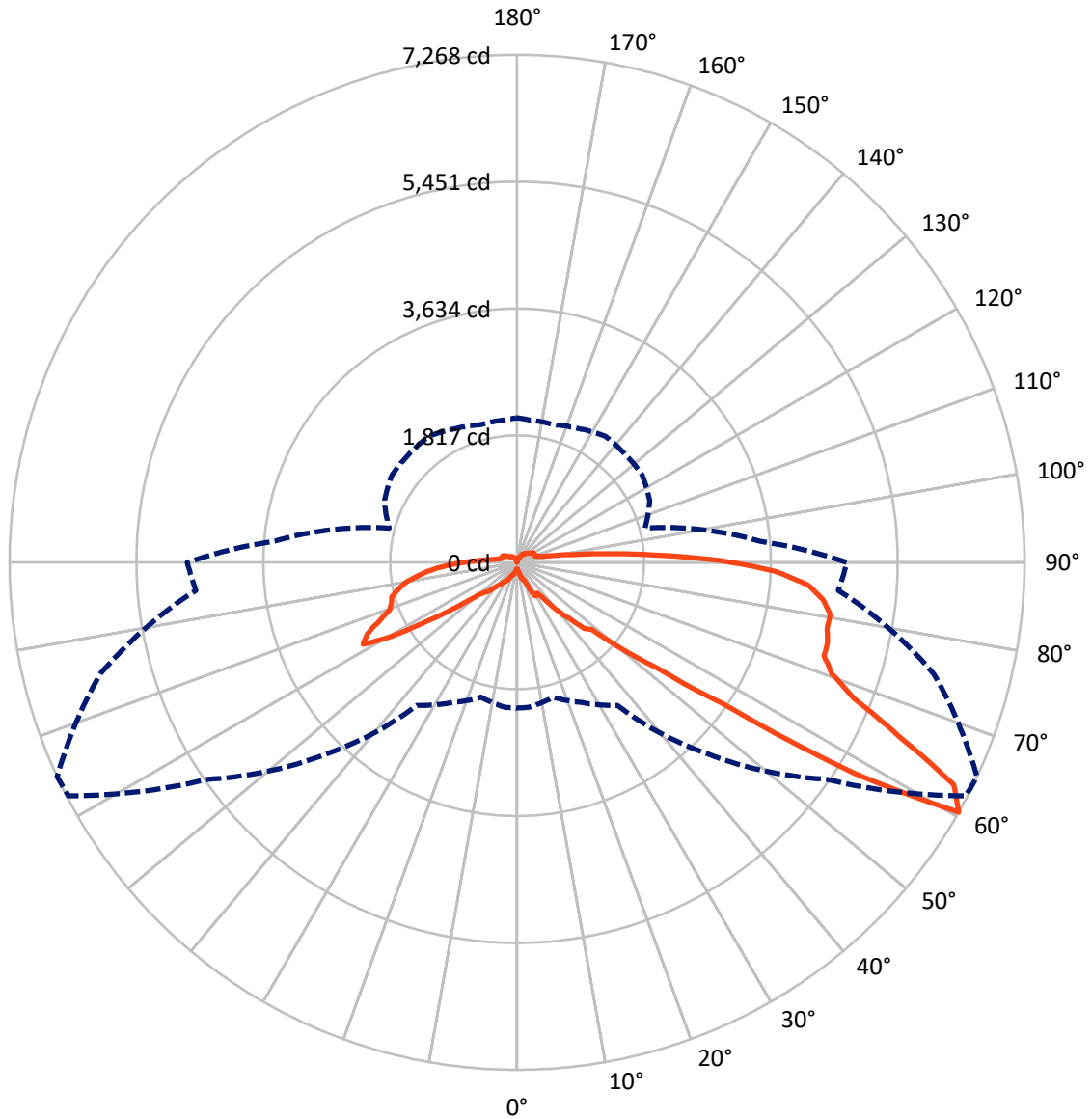
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.3 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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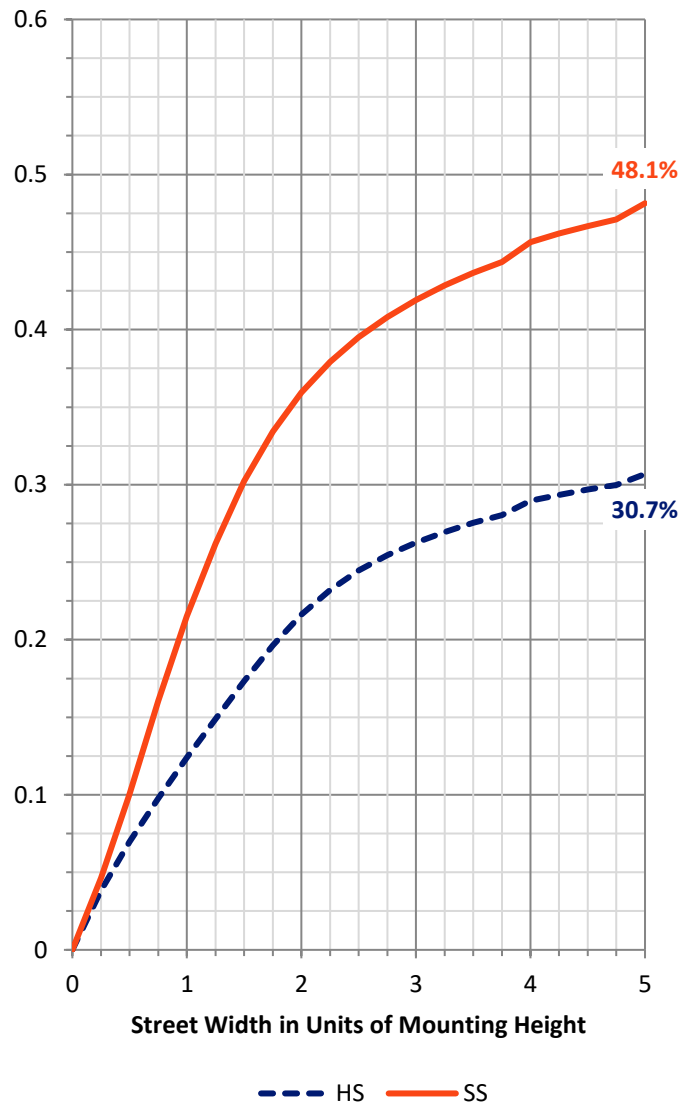
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4199.8	672.6	4872.4
	% Fixture	33.3	5.3	38.7
<b>Street Side</b>	Lumens	6719.1	1002.5	7721.6
	% Fixture	53.4	8.0	61.3
<b>Total</b>	Lumens	10918.9	1675.1	12594.0
	% Fixture	86.7	13.3	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.1	0.1
10°-20°	53.8	0.4
20°-30°	153.8	1.2
30°-40°	331.2	2.6
40°-50°	626.8	5.0
50°-60°	1751.0	13.9
60°-70°	3121.7	24.8
70°-80°	2733.1	21.7
80°-90°	2135.4	17.0
90°-100°	807.3	6.4
100°-110°	277.7	2.2
110°-120°	227.1	1.8
120°-130°	152.6	1.2
130°-140°	104.7	0.8
140°-150°	65.8	0.5
150°-160°	30.5	0.2
160°-170°	8.6	0.1
170°-180°	0.8	0.0
0°-90°	10918.9	86.7
0°-180°	12594.0	100.0

**Coefficient of Utilization**

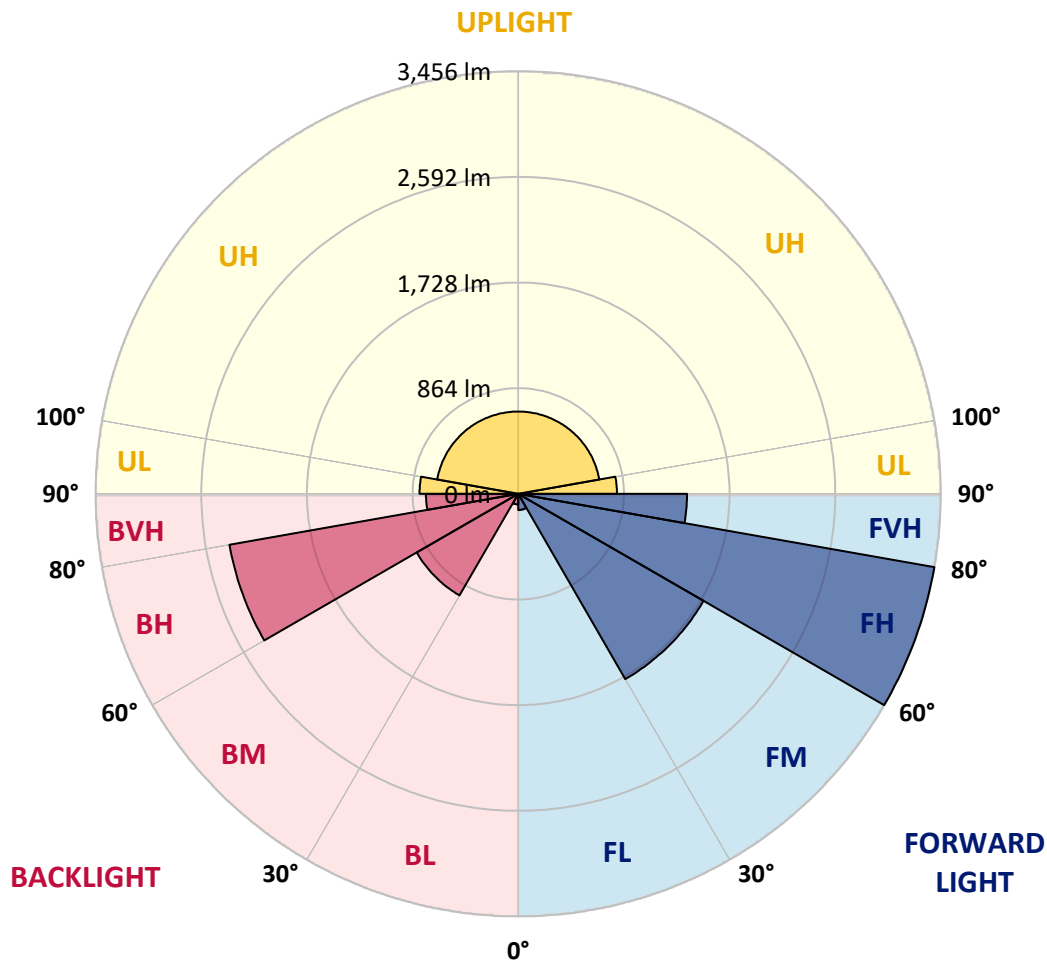


REPORT NUMBER: P588548  
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	132.7	1.1			
FM (30°-60°)	1749.8	13.9			
FH (60°-80°)	3456.4	27.4			G2/5000
FVH (80°-90°)	1380.3	11.0			G5
BL (0°-30°)	87.0	0.7	B0/110		
BM (30°-60°)	959.2	7.6	B1/1000		
BH (60°-80°)	2398.4	19.0	B3/2500		G3/2500
BVH (80°-90°)	755.2	6.0			G5
UL (90°-100°)	807.3	6.4		U4/1000	
UH (100°-180°)	672.6	5.3		U4/1000	

**BUG Rating: B3-U4-G5**  
 Type III Short





REPORT NUMBER: P588548  
 CATALOG NUMBER: GAT-CA6-LED-90-730-U-33-5-X-X

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
2.5°	111.0	107.8	104.5	104.5	102.9	101.2	101.2	98.0	99.6	98.0	98.0
5°	130.6	129.0	125.7	127.4	124.1	122.5	122.5	120.8	119.2	117.6	112.7
7.5°	151.8	151.8	153.5	155.1	150.2	145.3	143.7	140.4	140.4	138.8	135.5
10°	174.7	173.1	166.5	166.5	163.3	160.0	161.6	160.0	160.0	160.0	153.5
12.5°	181.2	179.6	174.7	174.7	174.7	173.1	179.6	178.0	179.6	178.0	168.2
15°	204.1	202.5	200.8	202.5	209.0	222.1	238.4	231.9	233.5	230.2	194.3
17.5°	213.9	218.8	222.1	223.7	230.2	230.2	233.5	231.9	238.4	243.3	222.1
20°	248.2	244.9	248.2	259.6	275.9	277.6	272.7	272.7	275.9	277.6	236.8
22.5°	262.9	261.2	274.3	264.5	264.5	272.7	302.1	292.3	292.3	289.0	254.7
25°	341.3	347.8	360.8	377.2	416.4	427.8	460.4	424.5	429.4	378.8	323.3
27.5°	409.8	414.7	491.5	560.0	591.1	574.7	602.5	535.6	542.1	548.6	471.9
30°	431.1	440.9	551.9	602.5	643.3	610.7	646.6	558.4	553.5	591.1	560.0
32.5°	414.7	424.5	542.1	563.3	605.8	726.6	680.9	538.8	524.1	542.1	579.6
35°	455.5	462.1	532.3	481.7	520.9	1015.6	891.5	628.6	599.2	499.6	555.1
37.5°	547.0	547.0	630.3	666.2	695.6	1198.5	1170.7	782.1	759.2	584.5	641.7
40°	662.9	659.6	762.5	787.0	800.1	1085.8	1415.6	997.6	947.0	687.4	836.0
42.5°	733.1	726.6	809.9	836.0	836.0	919.3	1601.8	1214.8	1097.2	801.7	1022.1
45°	760.9	767.4	875.2	842.5	867.0	943.8	1801.0	1515.2	1350.3	940.5	1185.4
47.5°	689.0	698.8	854.0	857.2	733.1	754.4	1614.8	1574.0	1438.5	1007.4	1237.7
50°	845.8	852.3	907.8	870.3	809.9	955.2	1923.4	2023.0	1964.2	1247.5	1306.2
52.5°	1160.9	1190.3	1242.6	1275.2	1257.3	1605.0	2579.8	2561.9	2512.9	1872.8	1783.0
55°	1503.8	1528.3	1601.8	1799.3	1949.6	2403.5	3208.4	3584.0	3580.7	3041.9	2779.0
57.5°	1815.7	1817.3	1827.1	2070.4	2302.2	3138.2	4202.8	5582.5	5706.6	4859.2	3979.1
60°	2086.7	2081.8	1998.5	2215.7	2498.2	3890.9	5417.6	7243.1	7267.6	6178.5	4615.9
62.5°	2160.2	2145.5	2024.7	2227.1	2468.8	3905.6	5727.8	7045.5	7017.7	6271.6	4699.2
65°	2096.5	2081.8	1928.3	2109.6	2223.9	3549.7	5290.2	6059.3	6013.6	5729.5	4473.9
67.5°	2001.8	2011.6	1859.8	1998.5	2076.9	3329.3	4829.8	5213.5	5200.4	5339.2	4286.1
70°	1864.6	1872.8	1734.0	1905.5	2019.8	3188.8	4388.9	4805.3	4782.5	4986.5	4010.1
72.5°	1869.5	1894.0	1729.1	1858.1	1977.3	2996.2	4189.7	4664.9	4597.9	4629.0	3678.7
75°	1882.6	1915.3	1740.6	1856.5	1967.5	2926.0	4166.9	4676.3	4591.4	4500.0	3553.0
77.5°	1887.5	1934.9	1747.1	1874.4	1970.8	2829.6	4114.6	4619.2	4539.2	4375.9	3404.4
80°	1848.3	1898.9	1719.3	1876.1	1949.6	2638.6	3982.4	4609.4	4549.0	4359.6	3344.0
82.5°	1769.9	1820.6	1665.4	1794.4	1908.7	2444.3	3796.2	4418.3	4415.1	4202.8	3216.6
85°	1598.5	1654.0	1536.5	1655.7	1796.1	2186.3	3420.7	4093.4	4183.2	4011.8	3045.2
87.5°	1433.6	1489.1	1427.1	1494.0	1636.1	1900.6	2939.0	3533.4	3701.5	3559.5	2615.7
90°	1245.8	1303.0	1252.4	1226.2	1340.5	1516.9	2349.6	2748.0	2906.4	2819.8	1925.1
92.5°	997.6	1046.6	999.3	938.9	1007.4	1113.6	1745.5	1923.4	1961.0	1877.7	1262.1
95°	754.4	790.3	747.8	687.4	695.6	762.5	1203.4	1260.5	1250.7	1151.1	801.7
97.5°	524.1	545.4	517.6	475.1	489.8	532.3	796.8	790.3	790.3	703.7	524.1
100°	364.1	372.3	359.2	339.6	351.1	378.8	535.6	533.9	517.6	475.1	382.1
102.5°	289.0	290.6	277.6	264.5	258.0	284.1	387.0	385.3	388.6	369.0	298.8
105°	254.7	253.1	241.7	230.2	217.2	243.3	307.0	320.0	318.4	302.1	256.3
107.5°	233.5	231.9	220.4	210.6	199.2	222.1	266.1	284.1	282.5	280.8	241.7
110°	217.2	215.5	205.7	195.9	186.1	212.3	249.8	277.6	277.6	277.6	244.9



REPORT NUMBER: P588548  
 CATALOG NUMBER: GAT-CA6-LED-90-730-U-33-5-X-X

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	205.7	205.7	197.6	189.4	181.2	210.6	240.0	272.7	272.7	280.8	256.3
115°	199.2	197.6	191.0	186.1	179.6	212.3	236.8	269.4	271.0	282.5	254.7
117.5°	194.3	192.7	187.8	181.2	178.0	209.0	238.4	275.9	274.3	292.3	249.8
120°	186.1	182.9	176.3	169.8	166.5	192.7	231.9	267.8	264.5	272.7	230.2
122.5°	179.6	169.8	158.4	153.5	153.5	174.7	217.2	241.7	238.4	231.9	207.4
125°	164.9	155.1	145.3	143.7	145.3	163.3	207.4	222.1	223.7	218.8	195.9
127.5°	148.6	142.1	137.2	137.2	140.4	160.0	204.1	213.9	213.9	204.1	186.1
130°	140.4	138.8	135.5	135.5	142.1	161.6	199.2	202.5	202.5	189.4	181.2
132.5°	137.2	133.9	130.6	130.6	137.2	156.7	186.1	192.7	191.0	178.0	171.4
135°	130.6	129.0	125.7	125.7	133.9	153.5	174.7	181.2	179.6	163.3	158.4
137.5°	127.4	124.1	124.1	124.1	132.3	151.8	164.9	169.8	168.2	151.8	147.0
140°	122.5	120.8	117.6	117.6	129.0	147.0	155.1	156.7	155.1	142.1	137.2
142.5°	114.3	112.7	111.0	114.3	125.7	138.8	145.3	145.3	143.7	135.5	129.0
145°	109.4	107.8	106.1	114.3	124.1	130.6	137.2	132.3	132.3	127.4	120.8
147.5°	104.5	102.9	102.9	109.4	117.6	117.6	122.5	120.8	122.5	120.8	114.3
150°	94.7	93.1	93.1	98.0	99.6	99.6	104.5	104.5	104.5	104.5	99.6
152.5°	83.3	81.6	83.3	84.9	84.9	84.9	88.2	89.8	89.8	88.2	86.5
155°	71.8	71.8	71.8	73.5	73.5	71.8	76.7	76.7	76.7	76.7	75.1
157.5°	63.7	63.7	63.7	63.7	63.7	62.0	65.3	65.3	66.9	65.3	65.3
160°	55.5	53.9	53.9	53.9	53.9	52.2	53.9	53.9	53.9	55.5	55.5
162.5°	44.1	42.5	42.5	42.5	42.5	39.2	42.5	40.8	42.5	42.5	44.1
165°	35.9	34.3	34.3	34.3	32.7	31.0	32.7	31.0	31.0	31.0	32.7
167.5°	27.8	27.8	26.1	27.8	26.1	22.9	22.9	21.2	21.2	21.2	21.2
170°	21.2	19.6	18.0	19.6	18.0	14.7	14.7	13.1	13.1	11.4	11.4
172.5°	14.7	13.1	11.4	13.1	11.4	8.2	8.2	4.9	4.9	4.9	4.9
175°	13.1	11.4	9.8	11.4	9.8	6.5	4.9	3.3	3.3	3.3	3.3
177.5°	13.1	11.4	9.8	11.4	9.8	6.5	4.9	3.3	3.3	3.3	3.3
180°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
2.5°	98.0	96.3	94.7	98.0	96.3	98.0	99.6	101.2	101.2	99.6	99.6
5°	112.7	111.0	107.8	106.1	102.9	102.9	102.9	106.1	106.1	104.5	106.1
7.5°	133.9	130.6	125.7	122.5	117.6	117.6	115.9	119.2	120.8	117.6	119.2
10°	150.2	148.6	142.1	137.2	132.3	130.6	130.6	132.3	132.3	130.6	130.6
12.5°	164.9	161.6	155.1	150.2	143.7	142.1	142.1	143.7	143.7	142.1	142.1
15°	186.1	176.3	169.8	164.9	158.4	156.7	155.1	156.7	158.4	155.1	155.1
17.5°	215.5	204.1	189.4	176.3	169.8	173.1	174.7	176.3	174.7	169.8	169.8
20°	231.9	225.3	205.7	195.9	187.8	187.8	187.8	187.8	187.8	186.1	187.8
22.5°	243.3	233.5	209.0	202.5	197.6	200.8	204.1	205.7	205.7	204.1	204.1
25°	295.5	259.6	235.1	230.2	223.7	225.3	222.1	222.1	223.7	222.1	225.3
27.5°	406.6	347.8	292.3	272.7	267.8	267.8	271.0	271.0	271.0	271.0	269.4
30°	488.2	419.6	328.2	302.1	298.8	313.5	321.7	328.2	324.9	320.0	320.0
32.5°	501.3	426.2	334.7	324.9	333.1	344.5	352.7	357.6	362.5	360.8	359.2
35°	473.5	393.5	329.8	342.9	349.4	355.9	357.6	354.3	369.0	375.5	377.2
37.5°	529.0	440.9	383.7	393.5	385.3	378.8	382.1	383.7	403.3	413.1	422.9
40°	676.0	532.3	436.0	431.1	426.2	440.9	460.4	470.2	468.6	462.1	463.7
42.5°	818.0	622.1	491.5	489.8	488.2	514.3	545.4	543.7	529.0	517.6	517.6
45°	963.3	708.6	579.6	581.3	578.0	587.8	596.0	589.4	591.1	594.3	597.6
47.5°	1053.2	787.0	635.2	630.3	609.0	628.6	651.5	636.8	631.9	623.7	627.0
50°	1074.4	806.6	667.8	703.7	684.1	669.4	645.0	635.2	653.1	666.2	676.0
52.5°	1396.0	996.0	834.4	891.5	865.4	813.1	808.2	791.9	811.5	813.1	824.6
55°	2339.8	1596.9	1149.5	1205.0	1206.6	1188.7	1270.3	1224.6	1183.8	1165.8	1159.3
57.5°	3688.5	2468.8	1487.5	1557.7	1624.6	1688.3	1799.3	1706.3	1588.7	1574.0	1590.3
60°	4723.7	3486.0	1897.3	2094.9	2184.7	2187.9	2202.6	2111.2	2039.4	2045.9	2068.7
62.5°	4945.7	4335.1	2416.5	2498.2	2506.3	2445.9	2472.0	2530.8	2429.6	2349.6	2370.8
65°	4797.1	4671.4	2586.3	2374.1	2361.0	2370.8	2548.8	2712.1	2508.0	2305.5	2305.5
67.5°	4509.8	4415.1	2413.3	2135.7	2171.6	2282.6	2508.0	2589.6	2372.4	2156.9	2156.9
70°	4202.8	4013.4	2219.0	1946.3	2034.5	2163.5	2310.4	2316.9	2189.6	2036.1	2026.3
72.5°	3871.4	3699.9	2135.7	1890.8	1931.6	1954.5	2034.5	2085.1	2070.4	1970.8	1969.1
75°	3773.4	3634.6	2134.1	1864.6	1840.2	1832.0	1887.5	1996.9	2047.5	1988.7	1992.0
77.5°	3624.8	3541.5	2034.5	1755.3	1729.1	1729.1	1758.5	1846.7	1923.4	1898.9	1907.1
80°	3521.9	3396.2	1882.6	1636.1	1600.1	1605.0	1608.3	1668.7	1740.6	1743.8	1743.8
82.5°	3324.4	3087.6	1652.4	1458.1	1433.6	1440.1	1428.7	1463.0	1482.6	1507.1	1502.2
85°	2999.4	2664.7	1396.0	1263.8	1224.6	1211.5	1201.7	1203.4	1214.8	1209.9	1190.3
87.5°	2512.9	2112.8	1113.6	1036.8	991.1	958.4	945.4	929.1	927.4	909.5	916.0
90°	1854.9	1449.9	826.2	798.4	765.8	731.5	713.5	697.2	684.1	666.2	659.6
92.5°	1209.9	934.0	604.1	589.4	568.2	548.6	540.5	532.3	529.0	514.3	519.2
95°	756.0	631.9	453.9	437.6	426.2	421.3	422.9	424.5	421.3	404.9	409.8
97.5°	504.5	457.2	354.3	342.9	331.5	329.8	331.5	334.7	336.4	324.9	328.2
100°	372.3	351.1	290.6	282.5	272.7	269.4	271.0	274.3	275.9	266.1	267.8
102.5°	295.5	285.7	251.5	248.2	236.8	233.5	236.8	238.4	240.0	233.5	233.5
105°	259.6	259.6	231.9	230.2	222.1	218.8	220.4	222.1	223.7	217.2	217.2
107.5°	249.8	251.5	223.7	225.3	220.4	218.8	222.1	225.3	223.7	218.8	217.2
110°	258.0	261.2	223.7	228.6	230.2	233.5	240.0	241.7	241.7	238.4	240.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	266.1	271.0	220.4	231.9	243.3	251.5	262.9	269.4	266.1	264.5	266.1
115°	259.6	262.9	205.7	223.7	244.9	256.3	259.6	259.6	251.5	251.5	253.1
117.5°	251.5	258.0	191.0	205.7	220.4	230.2	228.6	223.7	213.9	210.6	220.4
120°	233.5	253.1	182.9	186.1	187.8	191.0	186.1	181.2	173.1	171.4	178.0
122.5°	215.5	233.5	168.2	164.9	163.3	163.3	161.6	160.0	155.1	156.7	163.3
125°	200.8	210.6	153.5	148.6	147.0	148.6	148.6	148.6	145.3	142.1	142.1
127.5°	189.4	192.7	145.3	138.8	137.2	137.2	137.2	138.8	137.2	132.3	132.3
130°	182.9	181.2	140.4	129.0	127.4	129.0	129.0	130.6	127.4	124.1	124.1
132.5°	169.8	166.5	133.9	122.5	120.8	122.5	122.5	122.5	119.2	115.9	115.9
135°	155.1	151.8	125.7	114.3	112.7	114.3	114.3	115.9	112.7	109.4	109.4
137.5°	143.7	140.4	117.6	107.8	106.1	106.1	107.8	107.8	106.1	102.9	102.9
140°	133.9	130.6	109.4	101.2	98.0	99.6	99.6	99.6	98.0	94.7	94.7
142.5°	125.7	124.1	101.2	93.1	89.8	91.4	91.4	93.1	89.8	86.5	86.5
145°	119.2	115.9	94.7	84.9	83.3	83.3	83.3	84.9	81.6	78.4	78.4
147.5°	112.7	109.4	86.5	76.7	75.1	75.1	75.1	75.1	73.5	70.2	68.6
150°	99.6	98.0	80.0	70.2	66.9	66.9	66.9	65.3	62.0	58.8	58.8
152.5°	84.9	83.3	70.2	62.0	58.8	58.8	57.1	57.1	53.9	52.2	50.6
155°	73.5	73.5	63.7	55.5	52.2	50.6	49.0	49.0	47.4	45.7	44.1
157.5°	65.3	63.7	57.1	50.6	44.1	44.1	42.5	42.5	40.8	39.2	37.6
160°	55.5	55.5	49.0	42.5	37.6	35.9	35.9	34.3	32.7	31.0	31.0
162.5°	44.1	44.1	39.2	34.3	29.4	29.4	27.8	27.8	26.1	24.5	22.9
165°	31.0	31.0	29.4	26.1	22.9	21.2	21.2	21.2	19.6	18.0	18.0
167.5°	21.2	21.2	19.6	18.0	16.3	14.7	16.3	16.3	14.7	13.1	13.1
170°	11.4	11.4	9.8	9.8	8.2	8.2	9.8	11.4	9.8	8.2	6.5
172.5°	4.9	4.9	4.9	4.9	3.3	4.9	6.5	8.2	6.5	4.9	4.9
175°	3.3	3.3	4.9	4.9	3.3	4.9	6.5	8.2	6.5	4.9	4.9
177.5°	3.3	3.3	4.9	4.9	3.3	4.9	6.5	8.2	6.5	4.9	4.9
180°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5

(END OF REPORT)