

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: P588516

Luminaire Tested: **GAT-CA6-LED-80-722-U-33-5-X-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588516  
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-80-722-U-33-5-X-X  
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR  
Light Source: (6) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9833 lumens  
Efficiency: N/A  
Efficacy: 116.5 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

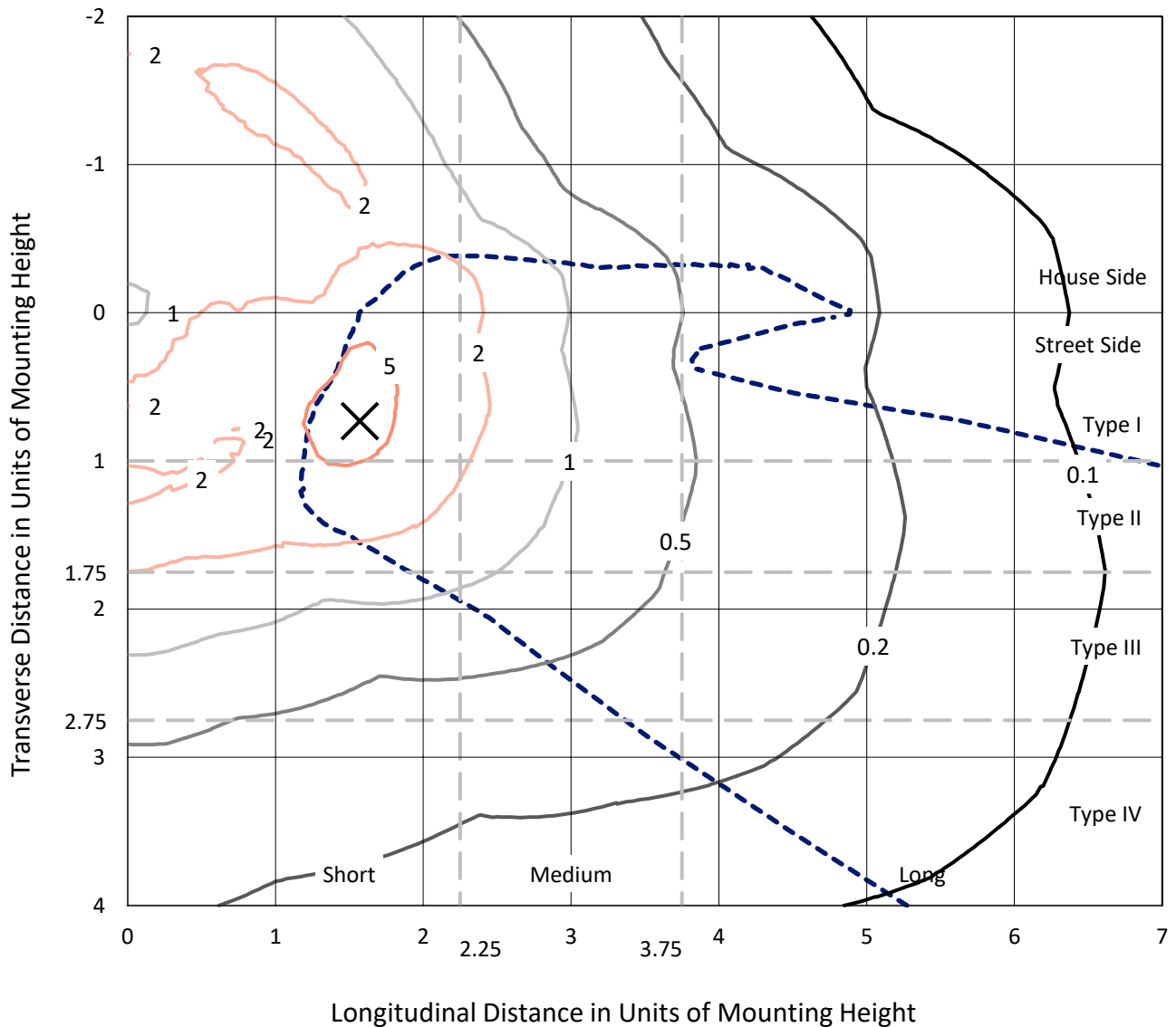
Input Watts (W): 84.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

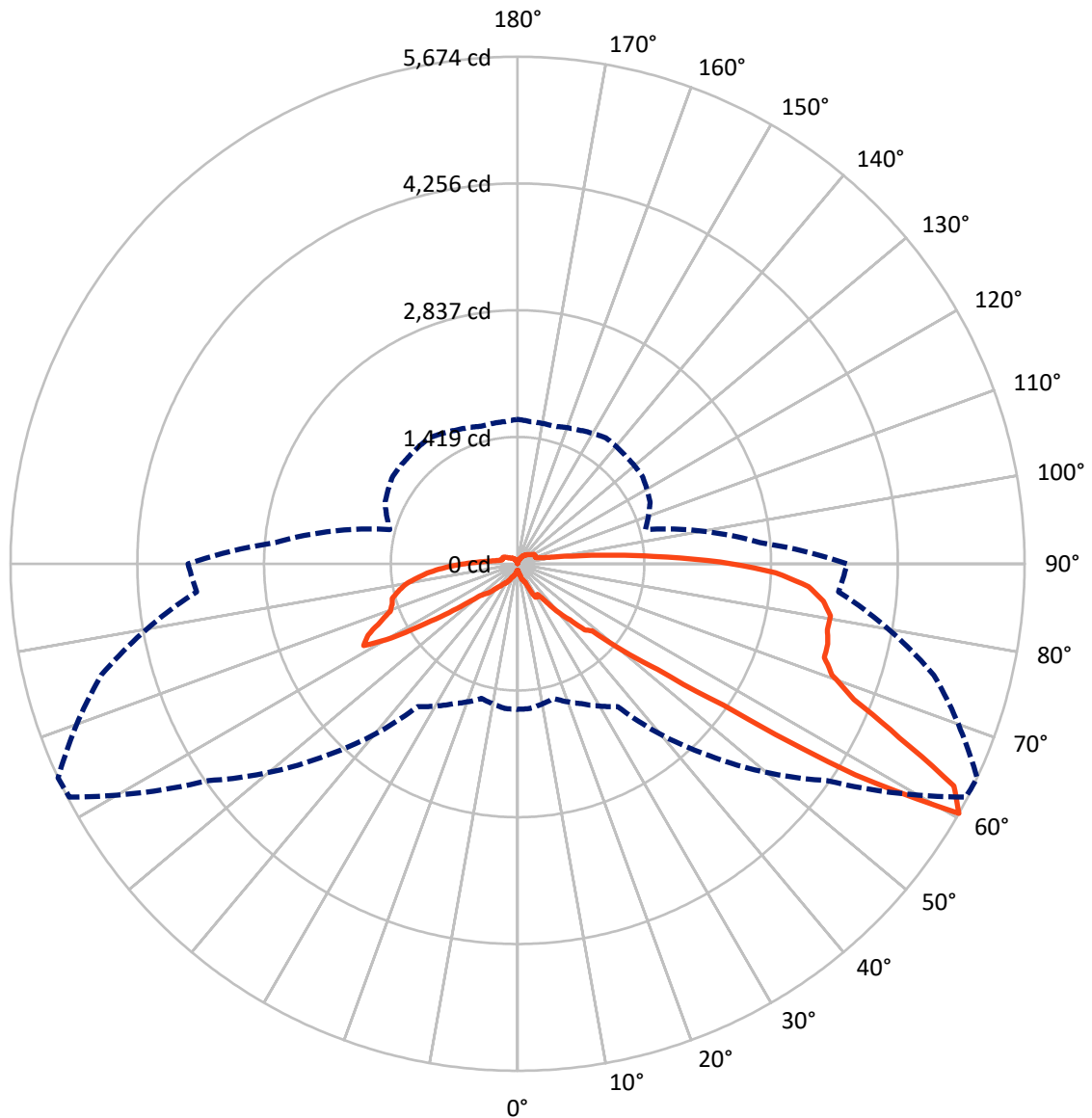
× Max cd  
 - - - 1/2 Max cd



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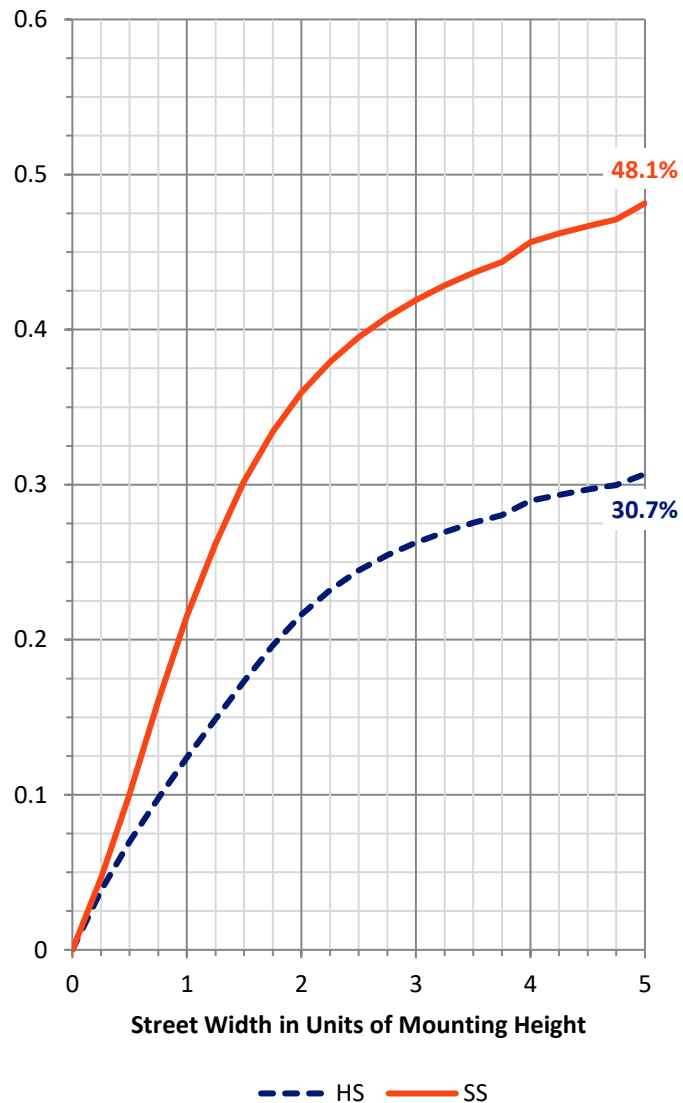
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3279.1	525.1	3804.2
	% Fixture	33.3	5.3	38.7
<b>Street Side</b>	Lumens	5246.1	782.7	6028.8
	% Fixture	53.4	8.0	61.3
<b>Total</b>	Lumens	8525.2	1307.8	9833.0
	% Fixture	86.7	13.3	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.4	0.1
10°-20°	42.0	0.4
20°-30°	120.1	1.2
30°-40°	258.6	2.6
40°-50°	489.4	5.0
50°-60°	1367.1	13.9
60°-70°	2437.3	24.8
70°-80°	2133.9	21.7
80°-90°	1667.3	17.0
90°-100°	630.3	6.4
100°-110°	216.8	2.2
110°-120°	177.3	1.8
120°-130°	119.1	1.2
130°-140°	81.7	0.8
140°-150°	51.4	0.5
150°-160°	23.8	0.2
160°-170°	6.7	0.1
170°-180°	0.6	0.0
0°-90°	8525.2	86.7
0°-180°	9833.0	100.0

**Coefficient of Utilization**

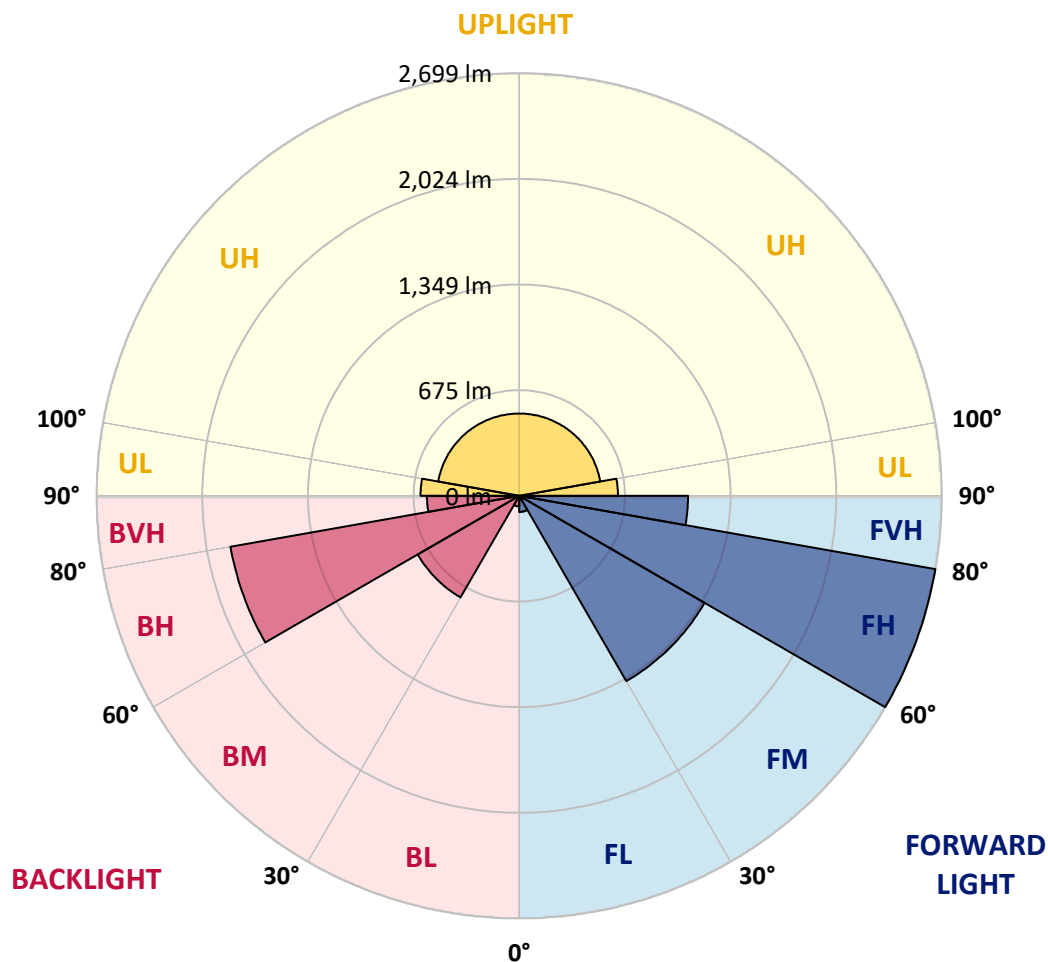


REPORT NUMBER: P588516  
 CATALOG NUMBER: GAT-CA6-LED-80-722-U-33-5-X-X

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	103.6	1.1			
FM (30°-60°)	1366.2	13.9			
FH (60°-80°)	2698.6	27.4			G2/5000
FVH (80°-90°)	1077.7	11.0			G5
BL (0°-30°)	67.9	0.7	B0/110		
BM (30°-60°)	749.0	7.6	B1/1000		
BH (60°-80°)	1872.6	19.0	B3/2500		G3/2500
BVH (80°-90°)	589.6	6.0			G4/750
UL (90°-100°)	630.3	6.4		U4/1000	
UH (100°-180°)	525.1	5.3		U4/1000	

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





REPORT NUMBER: P588516  
 CATALOG NUMBER: GAT-CA6-LED-80-722-U-33-5-X-X

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
2.5°	86.7	84.1	81.6	81.6	80.3	79.0	79.0	76.5	77.8	76.5	76.5
5°	102.0	100.7	98.2	99.4	96.9	95.6	95.6	94.3	93.1	91.8	88.0
7.5°	118.6	118.6	119.8	121.1	117.3	113.5	112.2	109.6	109.6	108.4	105.8
10°	136.4	135.1	130.0	130.0	127.5	124.9	126.2	124.9	124.9	124.9	119.8
12.5°	141.5	140.2	136.4	136.4	136.4	135.1	140.2	139.0	140.2	139.0	131.3
15°	159.4	158.1	156.8	158.1	163.2	173.4	186.1	181.0	182.3	179.8	151.7
17.5°	167.0	170.8	173.4	174.7	179.8	179.8	182.3	181.0	186.1	190.0	173.4
20°	193.8	191.2	193.8	202.7	215.4	216.7	212.9	212.9	215.4	216.7	184.9
22.5°	205.2	204.0	214.2	206.5	206.5	212.9	235.8	228.2	228.2	225.6	198.9
25°	266.4	271.5	281.7	294.5	325.1	334.0	359.5	331.5	335.3	295.8	252.4
27.5°	320.0	323.8	383.7	437.3	461.5	448.7	470.4	418.1	423.2	428.3	368.4
30°	336.6	344.2	430.9	470.4	502.3	476.8	504.8	436.0	432.2	461.5	437.3
32.5°	323.8	331.5	423.2	439.8	473.0	567.3	531.6	420.7	409.2	423.2	452.6
35°	355.7	360.8	415.6	376.1	406.7	792.9	696.1	490.8	467.9	390.1	433.4
37.5°	427.1	427.1	492.1	520.1	543.1	935.7	914.1	610.6	592.8	456.4	501.0
40°	517.6	515.0	595.3	614.5	624.7	847.8	1105.3	778.9	739.4	536.7	652.7
42.5°	572.4	567.3	632.3	652.7	652.7	717.7	1250.6	948.5	856.7	625.9	798.0
45°	594.1	599.2	683.3	657.8	676.9	736.9	1406.1	1183.0	1054.3	734.3	925.5
47.5°	538.0	545.6	666.7	669.3	572.4	589.0	1260.8	1228.9	1123.1	786.6	966.3
50°	660.4	665.5	708.8	679.5	632.3	745.8	1501.8	1579.5	1533.6	974.0	1019.9
52.5°	906.4	929.4	970.1	995.6	981.6	1253.2	2014.2	2000.2	1962.0	1462.2	1392.1
55°	1174.1	1193.2	1250.6	1404.9	1522.2	1876.6	2505.0	2798.3	2795.7	2375.0	2169.8
57.5°	1417.6	1418.9	1426.5	1616.5	1797.5	2450.2	3281.4	4358.7	4455.5	3793.9	3106.8
60°	1629.2	1625.4	1560.4	1729.9	1950.5	3037.9	4229.9	5655.2	5674.3	4824.0	3604.0
62.5°	1686.6	1675.1	1580.8	1738.9	1927.5	3049.4	4472.1	5500.9	5479.2	4896.6	3669.0
65°	1636.9	1625.4	1505.6	1647.1	1736.3	2771.5	4130.5	4730.9	4695.2	4473.4	3493.0
67.5°	1562.9	1570.6	1452.0	1560.4	1621.6	2599.4	3771.0	4070.5	4060.3	4168.7	3346.4
70°	1455.9	1462.2	1353.9	1487.7	1577.0	2489.7	3426.8	3751.8	3734.0	3893.3	3131.0
72.5°	1459.7	1478.8	1350.0	1450.8	1543.8	2339.3	3271.2	3642.2	3589.9	3614.2	2872.2
75°	1469.9	1495.4	1359.0	1449.5	1536.2	2284.5	3253.4	3651.1	3584.8	3513.4	2774.0
77.5°	1473.7	1510.7	1364.1	1463.5	1538.7	2209.3	3212.6	3606.5	3544.0	3416.6	2658.0
80°	1443.1	1482.6	1342.4	1464.8	1522.2	2060.1	3109.3	3598.9	3551.7	3403.8	2610.9
82.5°	1381.9	1421.4	1300.3	1401.0	1490.3	1908.4	2964.0	3449.7	3447.1	3281.4	2511.4
85°	1248.1	1291.4	1199.6	1292.7	1402.3	1707.0	2670.8	3196.0	3266.1	3132.3	2377.6
87.5°	1119.3	1162.6	1114.2	1166.5	1277.4	1483.9	2294.7	2758.7	2890.0	2779.1	2042.3
90°	972.7	1017.3	977.8	957.4	1046.6	1184.3	1834.5	2145.5	2269.2	2201.6	1503.0
92.5°	778.9	817.2	780.2	733.0	786.6	869.4	1362.8	1501.8	1531.1	1466.1	985.4
95°	589.0	617.0	583.9	536.7	543.1	595.3	939.6	984.2	976.5	898.8	625.9
97.5°	409.2	425.8	404.1	371.0	382.5	415.6	622.1	617.0	617.0	549.5	409.2
100°	284.3	290.7	280.5	265.2	274.1	295.8	418.1	416.9	404.1	371.0	298.3
102.5°	225.6	226.9	216.7	206.5	201.4	221.8	302.1	300.9	303.4	288.1	233.3
105°	198.9	197.6	188.7	179.8	169.6	190.0	239.7	249.9	248.6	235.8	200.1
107.5°	182.3	181.0	172.1	164.5	155.5	173.4	207.8	221.8	220.5	219.3	188.7
110°	169.6	168.3	160.6	153.0	145.3	165.7	195.0	216.7	216.7	216.7	191.2



REPORT NUMBER: P588516  
 CATALOG NUMBER: GAT-CA6-LED-80-722-U-33-5-X-X

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	160.6	160.6	154.3	147.9	141.5	164.5	187.4	212.9	212.9	219.3	200.1
115°	155.5	154.3	149.2	145.3	140.2	165.7	184.9	210.3	211.6	220.5	198.9
117.5°	151.7	150.4	146.6	141.5	139.0	163.2	186.1	215.4	214.2	228.2	195.0
120°	145.3	142.8	137.7	132.6	130.0	150.4	181.0	209.1	206.5	212.9	179.8
122.5°	140.2	132.6	123.7	119.8	119.8	136.4	169.6	188.7	186.1	181.0	161.9
125°	128.8	121.1	113.5	112.2	113.5	127.5	161.9	173.4	174.7	170.8	153.0
127.5°	116.0	110.9	107.1	107.1	109.6	124.9	159.4	167.0	167.0	159.4	145.3
130°	109.6	108.4	105.8	105.8	110.9	126.2	155.5	158.1	158.1	147.9	141.5
132.5°	107.1	104.5	102.0	102.0	107.1	122.4	145.3	150.4	149.2	139.0	133.9
135°	102.0	100.7	98.2	98.2	104.5	119.8	136.4	141.5	140.2	127.5	123.7
137.5°	99.4	96.9	96.9	96.9	103.3	118.6	128.8	132.6	131.3	118.6	114.7
140°	95.6	94.3	91.8	91.8	100.7	114.7	121.1	122.4	121.1	110.9	107.1
142.5°	89.2	88.0	86.7	89.2	98.2	108.4	113.5	113.5	112.2	105.8	100.7
145°	85.4	84.1	82.9	89.2	96.9	102.0	107.1	103.3	103.3	99.4	94.3
147.5°	81.6	80.3	80.3	85.4	91.8	91.8	95.6	94.3	95.6	94.3	89.2
150°	73.9	72.7	72.7	76.5	77.8	77.8	81.6	81.6	81.6	81.6	77.8
152.5°	65.0	63.7	65.0	66.3	66.3	66.3	68.8	70.1	70.1	68.8	67.6
155°	56.1	56.1	56.1	57.4	57.4	56.1	59.9	59.9	59.9	59.9	58.6
157.5°	49.7	49.7	49.7	49.7	49.7	48.4	51.0	51.0	52.3	51.0	51.0
160°	43.3	42.1	42.1	42.1	42.1	40.8	42.1	42.1	42.1	43.3	43.3
162.5°	34.4	33.1	33.1	33.1	33.1	30.6	33.1	31.9	33.1	33.1	34.4
165°	28.0	26.8	26.8	26.8	25.5	24.2	25.5	24.2	24.2	24.2	25.5
167.5°	21.7	21.7	20.4	21.7	20.4	17.8	17.8	16.6	16.6	16.6	16.6
170°	16.6	15.3	14.0	15.3	14.0	11.5	11.5	10.2	10.2	8.9	8.9
172.5°	11.5	10.2	8.9	10.2	8.9	6.4	6.4	3.8	3.8	3.8	3.8
175°	10.2	8.9	7.6	8.9	7.6	5.1	3.8	2.5	2.5	2.5	2.5
177.5°	10.2	8.9	7.6	8.9	7.6	5.1	3.8	2.5	2.5	2.5	2.5
180°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
2.5°	76.5	75.2	73.9	76.5	75.2	76.5	77.8	79.0	79.0	77.8	77.8
5°	88.0	86.7	84.1	82.9	80.3	80.3	80.3	82.9	82.9	81.6	82.9
7.5°	104.5	102.0	98.2	95.6	91.8	91.8	90.5	93.1	94.3	91.8	93.1
10°	117.3	116.0	110.9	107.1	103.3	102.0	102.0	103.3	103.3	102.0	102.0
12.5°	128.8	126.2	121.1	117.3	112.2	110.9	110.9	112.2	112.2	110.9	110.9
15°	145.3	137.7	132.6	128.8	123.7	122.4	121.1	122.4	123.7	121.1	121.1
17.5°	168.3	159.4	147.9	137.7	132.6	135.1	136.4	137.7	136.4	132.6	132.6
20°	181.0	175.9	160.6	153.0	146.6	146.6	146.6	146.6	146.6	145.3	146.6
22.5°	190.0	182.3	163.2	158.1	154.3	156.8	159.4	160.6	160.6	159.4	159.4
25°	230.7	202.7	183.6	179.8	174.7	175.9	173.4	173.4	174.7	173.4	175.9
27.5°	317.4	271.5	228.2	212.9	209.1	209.1	211.6	211.6	211.6	211.6	210.3
30°	381.2	327.6	256.2	235.8	233.3	244.8	251.1	256.2	253.7	249.9	249.9
32.5°	391.4	332.7	261.3	253.7	260.1	269.0	275.4	279.2	283.0	281.7	280.5
35°	369.7	307.2	257.5	267.7	272.8	277.9	279.2	276.6	288.1	293.2	294.5
37.5°	413.0	344.2	299.6	307.2	300.9	295.8	298.3	299.6	314.9	322.5	330.2
40°	527.8	415.6	340.4	336.6	332.7	344.2	359.5	367.2	365.9	360.8	362.1
42.5°	638.7	485.7	383.7	382.5	381.2	401.6	425.8	424.5	413.0	404.1	404.1
45°	752.2	553.3	452.6	453.8	451.3	458.9	465.3	460.2	461.5	464.0	466.6
47.5°	822.3	614.5	495.9	492.1	475.5	490.8	508.7	497.2	493.4	487.0	489.5
50°	838.8	629.8	521.4	549.5	534.2	522.7	503.6	495.9	509.9	520.1	527.8
52.5°	1090.0	777.6	651.4	696.1	675.7	634.9	631.0	618.3	633.6	634.9	643.8
55°	1826.8	1246.8	897.5	940.8	942.1	928.1	991.8	956.1	924.3	910.2	905.1
57.5°	2879.8	1927.5	1161.4	1216.2	1268.5	1318.2	1404.9	1332.2	1240.4	1228.9	1241.7
60°	3688.1	2721.8	1481.4	1635.6	1705.7	1708.3	1719.8	1648.4	1592.3	1597.4	1615.2
62.5°	3861.5	3384.7	1886.8	1950.5	1956.9	1909.7	1930.1	1976.0	1897.0	1834.5	1851.1
65°	3745.5	3647.3	2019.3	1853.6	1843.4	1851.1	1990.0	2117.5	1958.1	1800.1	1800.1
67.5°	3521.1	3447.1	1884.2	1667.5	1695.5	1782.2	1958.1	2021.9	1852.3	1684.1	1684.1
70°	3281.4	3133.5	1732.5	1519.6	1588.4	1689.2	1803.9	1809.0	1709.6	1589.7	1582.1
72.5°	3022.6	2888.8	1667.5	1476.3	1508.1	1526.0	1588.4	1628.0	1616.5	1538.7	1537.4
75°	2946.1	2837.8	1666.2	1455.9	1436.7	1430.4	1473.7	1559.1	1598.6	1552.7	1555.3
77.5°	2830.1	2765.1	1588.4	1370.4	1350.0	1350.0	1373.0	1441.8	1501.8	1482.6	1489.0
80°	2749.8	2651.7	1469.9	1277.4	1249.3	1253.2	1255.7	1302.9	1359.0	1361.5	1361.5
82.5°	2595.6	2410.7	1290.1	1138.4	1119.3	1124.4	1115.5	1142.3	1157.5	1176.7	1172.8
85°	2341.9	2080.5	1090.0	986.7	956.1	945.9	938.3	939.6	948.5	944.7	929.4
87.5°	1962.0	1649.6	869.4	809.5	773.8	748.3	738.1	725.4	724.1	710.1	715.2
90°	1448.2	1132.1	645.1	623.4	597.9	571.1	557.1	544.4	534.2	520.1	515.0
92.5°	944.7	729.2	471.7	460.2	443.6	428.3	422.0	415.6	413.0	401.6	405.4
95°	590.2	493.4	354.4	341.7	332.7	328.9	330.2	331.5	328.9	316.2	320.0
97.5°	393.9	357.0	276.6	267.7	258.8	257.5	258.8	261.3	262.6	253.7	256.2
100°	290.7	274.1	226.9	220.5	212.9	210.3	211.6	214.2	215.4	207.8	209.1
102.5°	230.7	223.1	196.3	193.8	184.9	182.3	184.9	186.1	187.4	182.3	182.3
105°	202.7	202.7	181.0	179.8	173.4	170.8	172.1	173.4	174.7	169.6	169.6
107.5°	195.0	196.3	174.7	175.9	172.1	170.8	173.4	175.9	174.7	170.8	169.6
110°	201.4	204.0	174.7	178.5	179.8	182.3	187.4	188.7	188.7	186.1	187.4



REPORT NUMBER: P588516  
 CATALOG NUMBER: GAT-CA6-LED-80-722-U-33-5-X-X

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	207.8	211.6	172.1	181.0	190.0	196.3	205.2	210.3	207.8	206.5	207.8
115°	202.7	205.2	160.6	174.7	191.2	200.1	202.7	202.7	196.3	196.3	197.6
117.5°	196.3	201.4	149.2	160.6	172.1	179.8	178.5	174.7	167.0	164.5	172.1
120°	182.3	197.6	142.8	145.3	146.6	149.2	145.3	141.5	135.1	133.9	139.0
122.5°	168.3	182.3	131.3	128.8	127.5	127.5	126.2	124.9	121.1	122.4	127.5
125°	156.8	164.5	119.8	116.0	114.7	116.0	116.0	116.0	113.5	110.9	110.9
127.5°	147.9	150.4	113.5	108.4	107.1	107.1	107.1	108.4	107.1	103.3	103.3
130°	142.8	141.5	109.6	100.7	99.4	100.7	100.7	102.0	99.4	96.9	96.9
132.5°	132.6	130.0	104.5	95.6	94.3	95.6	95.6	95.6	93.1	90.5	90.5
135°	121.1	118.6	98.2	89.2	88.0	89.2	89.2	90.5	88.0	85.4	85.4
137.5°	112.2	109.6	91.8	84.1	82.9	82.9	84.1	84.1	82.9	80.3	80.3
140°	104.5	102.0	85.4	79.0	76.5	77.8	77.8	77.8	76.5	73.9	73.9
142.5°	98.2	96.9	79.0	72.7	70.1	71.4	71.4	72.7	70.1	67.6	67.6
145°	93.1	90.5	73.9	66.3	65.0	65.0	65.0	66.3	63.7	61.2	61.2
147.5°	88.0	85.4	67.6	59.9	58.6	58.6	58.6	58.6	57.4	54.8	53.5
150°	77.8	76.5	62.5	54.8	52.3	52.3	52.3	51.0	48.4	45.9	45.9
152.5°	66.3	65.0	54.8	48.4	45.9	45.9	44.6	44.6	42.1	40.8	39.5
155°	57.4	57.4	49.7	43.3	40.8	39.5	38.2	38.2	37.0	35.7	34.4
157.5°	51.0	49.7	44.6	39.5	34.4	34.4	33.1	33.1	31.9	30.6	29.3
160°	43.3	43.3	38.2	33.1	29.3	28.0	28.0	26.8	25.5	24.2	24.2
162.5°	34.4	34.4	30.6	26.8	22.9	22.9	21.7	21.7	20.4	19.1	17.8
165°	24.2	24.2	22.9	20.4	17.8	16.6	16.6	16.6	15.3	14.0	14.0
167.5°	16.6	16.6	15.3	14.0	12.7	11.5	12.7	12.7	11.5	10.2	10.2
170°	8.9	8.9	7.6	7.6	6.4	6.4	7.6	8.9	7.6	6.4	5.1
172.5°	3.8	3.8	3.8	3.8	2.5	3.8	5.1	6.4	5.1	3.8	3.8
175°	2.5	2.5	3.8	3.8	2.5	3.8	5.1	6.4	5.1	3.8	3.8
177.5°	2.5	2.5	3.8	3.8	2.5	3.8	5.1	6.4	5.1	3.8	3.8
180°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1

(END OF REPORT)