

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: P588515

Luminaire Tested: **GAT-CA6-LED-80-722-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588515
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-80-722-U-33-5-6-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6669 lumens
Efficiency: N/A
Efficacy: 79.0 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

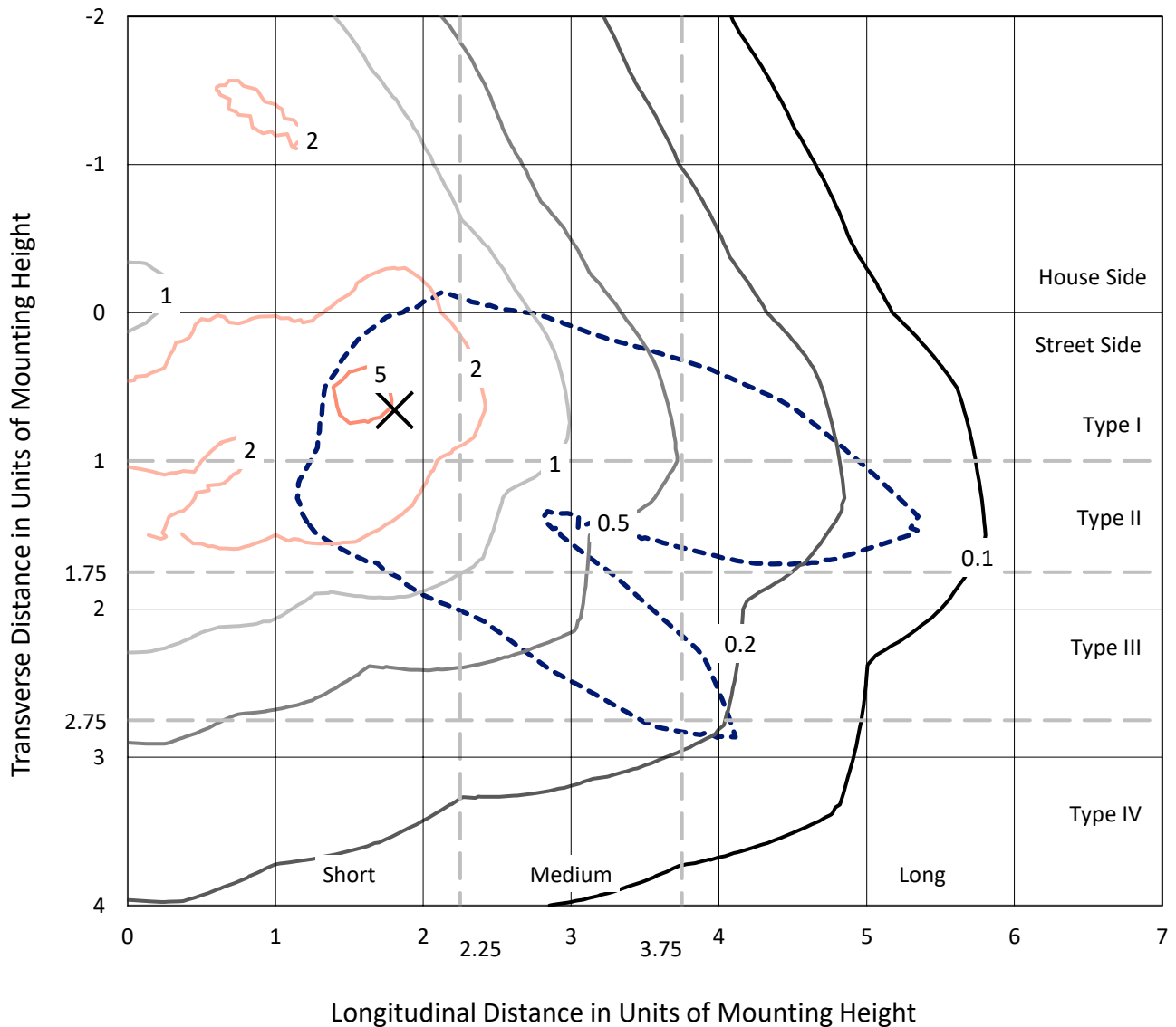
Input Watts (W): 84.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P588515
 CATALOG NUMBER: GAT-CA6-LED-80-722-U-33-5-6-X

Iso-Footcandle Lines of Horizontal Illumination

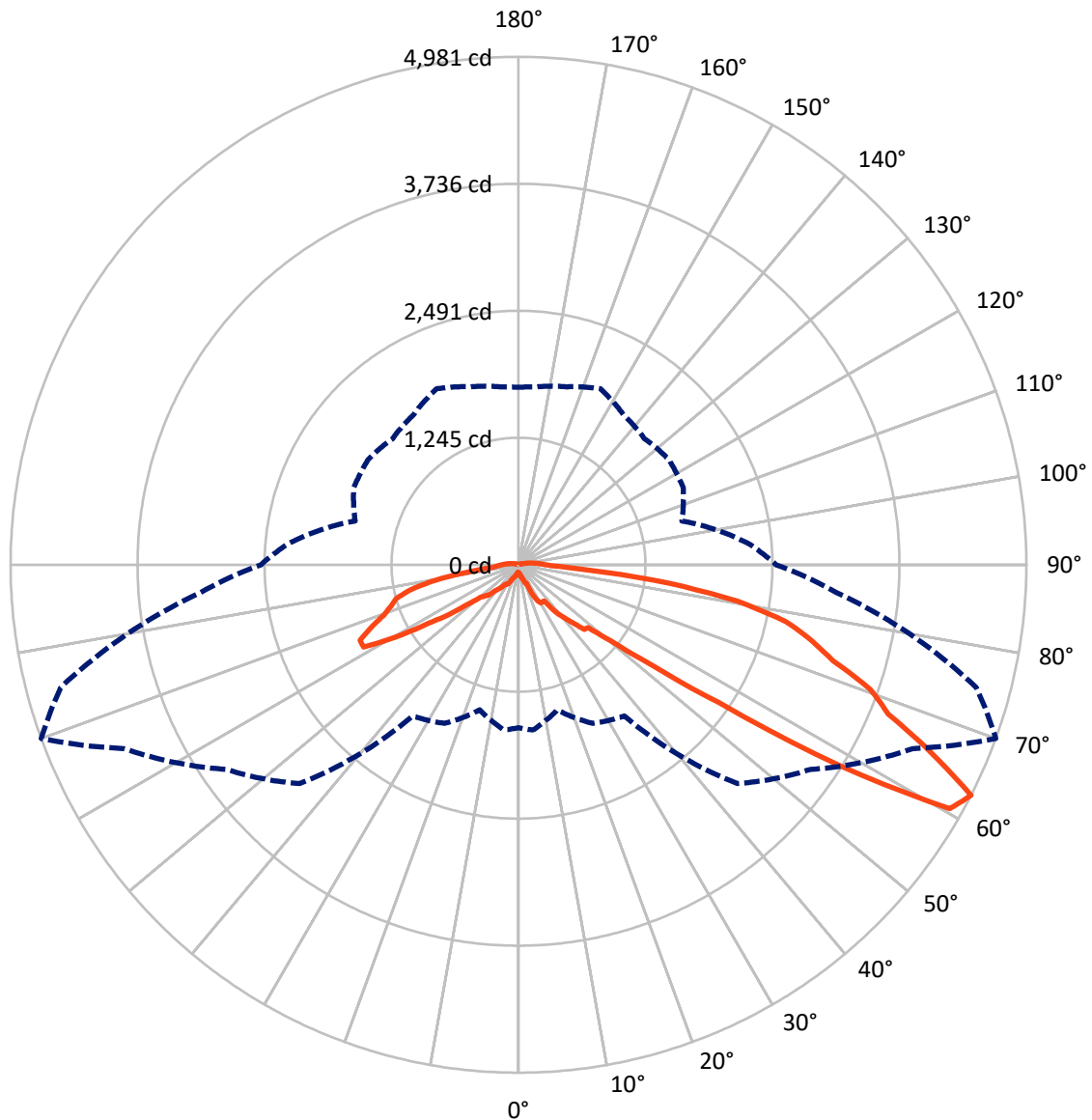
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P588515
CATALOG NUMBER: GAT-CA6-LED-80-722-U-33-5-6-X

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P588515
 CATALOG NUMBER: GAT-CA6-LED-80-722-U-33-5-6-X

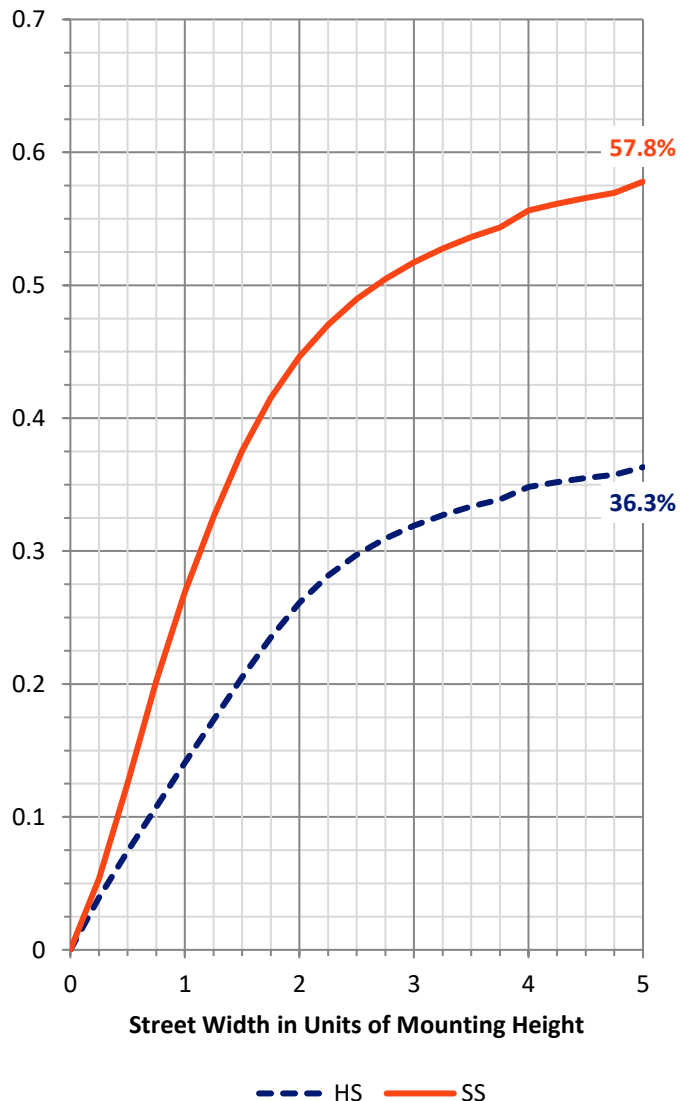
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2471.7	90.6	2562.3
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	3982.2	124.5	4106.7
	% Fixture	59.7	1.9	61.6
Total	Lumens	6453.9	215.1	6669.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.1
10°-20°	36.3	0.5
20°-30°	112.5	1.7
30°-40°	241.3	3.6
40°-50°	452.0	6.8
50°-60°	1173.0	17.6
60°-70°	2148.7	32.2
70°-80°	1723.5	25.8
80°-90°	558.1	8.4
90°-100°	147.1	2.2
100°-110°	47.8	0.7
110°-120°	18.7	0.3
120°-130°	1.5	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°	6453.9	96.8
0°-180°	6669.0	100.0

Coefficient of Utilization



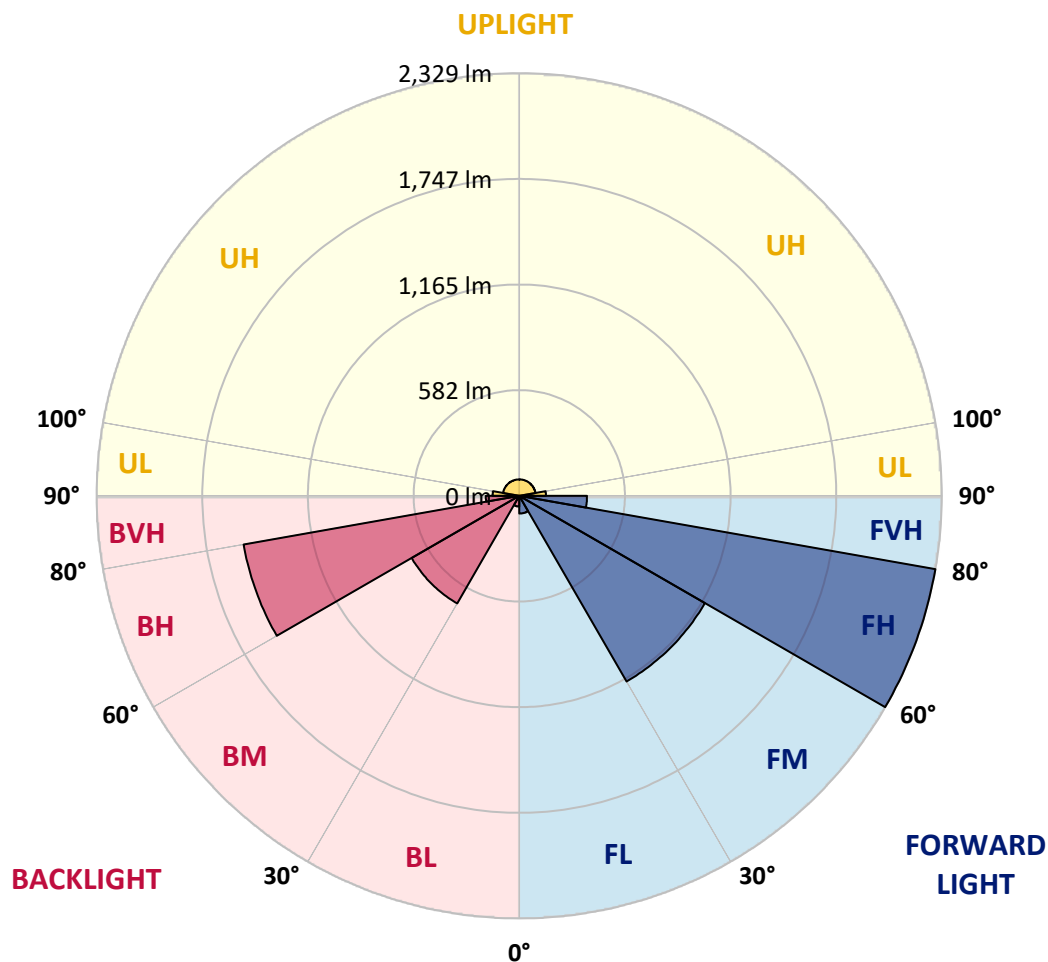
REPORT NUMBER: P588515
 CATALOG NUMBER: GAT-CA6-LED-80-722-U-33-5-6-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	97.8	1.5			
FM (30°-60°)	1181.7	17.7			
FH (60°-80°)	2329.3	34.9			G2/5000
FVH (80°-90°)	373.4	5.6			G3/500
BL (0°-30°)	59.4	0.9	B0/110		
BM (30°-60°)	684.7	10.3	B1/1000		
BH (60°-80°)	1542.9	23.1	B3/2500		G3/2500
BVH (80°-90°)	184.7	2.8			G2/225
UL (90°-100°)	147.1	2.2		U3/500	
UH (100°-180°)	90.6	1.4		U3/500	

BUG Rating: B3-U3-G3

Type III Short





REPORT NUMBER: P588515
 CATALOG NUMBER: GAT-CA6-LED-80-722-U-33-5-6-X

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
2.5°	85.4	85.4	85.4	84.1	82.9	81.6	80.3	80.3	79.0	77.8	76.5
5°	93.1	91.8	90.5	88.0	86.7	86.7	85.4	85.4	85.4	84.1	82.9
7.5°	103.3	103.3	102.0	100.7	99.4	98.2	96.9	95.6	95.6	94.3	93.1
10°	117.3	117.3	117.3	116.0	116.0	114.7	112.2	110.9	108.4	107.1	103.3
12.5°	131.3	132.6	130.0	130.0	130.0	128.8	126.2	124.9	122.4	119.8	114.7
15°	145.3	144.1	142.8	141.5	144.1	144.1	142.8	142.8	137.7	133.9	124.9
17.5°	158.1	158.1	159.4	159.4	163.2	161.9	161.9	160.6	158.1	151.7	140.2
20°	178.5	179.8	179.8	179.8	192.5	197.6	198.9	200.2	196.3	183.6	160.6
22.5°	198.9	200.2	209.1	206.5	206.5	206.5	219.3	212.9	196.3	181.0	168.3
25°	269.0	272.8	275.4	284.3	294.5	322.5	367.2	353.1	327.6	275.4	232.0
27.5°	336.6	341.7	387.6	451.3	460.2	427.1	459.0	416.9	404.1	350.6	314.9
30°	367.2	376.1	455.1	498.5	513.8	470.4	516.3	436.0	432.2	393.9	363.3
32.5°	374.8	381.2	467.9	473.0	476.8	471.7	540.6	442.4	433.5	395.2	350.6
35°	363.3	371.0	429.6	400.3	401.6	492.1	620.9	476.8	436.0	369.7	320.0
37.5°	447.5	447.5	497.2	504.9	538.0	647.6	813.4	629.8	583.9	481.9	420.7
40°	510.0	516.3	595.4	624.7	629.8	722.9	1018.6	738.2	673.1	539.3	492.1
42.5°	594.1	592.8	665.5	685.9	699.9	734.3	1041.6	849.1	772.6	610.7	575.0
45°	608.1	628.5	694.8	671.9	689.7	777.7	1087.5	1005.9	903.9	745.8	671.9
47.5°	552.0	580.1	713.9	694.8	623.4	664.2	872.0	1032.7	920.5	766.2	713.9
50°	595.4	610.7	677.0	664.2	568.6	706.3	957.5	1294.0	1169.1	911.6	777.7
52.5°	770.0	803.2	814.7	864.4	818.5	1056.9	1339.9	1639.5	1622.9	1319.5	1026.3
55°	989.3	1037.8	1088.8	1277.5	1304.2	1659.9	1870.3	2190.3	2389.2	2087.0	1574.5
57.5°	1226.5	1295.3	1278.7	1552.8	1594.9	2248.9	2442.7	3192.4	3724.0	3313.5	2306.3
60°	1455.9	1501.8	1408.8	1649.7	1730.0	2831.6	3115.9	4157.5	4857.4	4420.1	2840.5
62.5°	1597.5	1626.8	1473.8	1716.0	1810.4	3034.3	3497.1	4265.8	4981.0	4648.3	3129.9
65°	1596.2	1588.5	1413.9	1624.2	1611.5	2801.0	3379.8	3585.0	4449.4	4393.3	3166.9
67.5°	1533.7	1536.3	1352.7	1519.7	1467.4	2469.5	3131.2	3033.0	3911.4	3986.6	3080.2
70°	1473.8	1504.4	1329.7	1475.1	1450.8	2375.1	3022.8	2729.6	3659.0	3801.8	2988.4
72.5°	1389.6	1419.0	1254.5	1382.0	1390.9	2186.5	2837.9	2382.8	3226.8	3398.9	2678.6
75°	1388.4	1425.3	1271.1	1383.3	1397.3	2079.4	2860.9	2262.9	2968.0	3198.7	2500.1
77.5°	1309.3	1342.5	1199.7	1304.2	1343.7	1881.8	2729.6	2113.8	2681.1	2939.9	2266.8
80°	1051.8	1096.4	979.1	1048.0	1069.6	1411.3	2189.0	1731.3	2181.4	2440.2	1852.4
82.5°	719.0	759.8	682.1	733.1	761.1	925.6	1513.3	1246.9	1482.7	1640.8	1160.2
85°	415.6	464.1	418.2	411.8	425.8	488.3	814.7	662.9	689.7	725.4	515.1
87.5°	261.4	269.0	246.1	247.3	249.9	267.7	371.0	295.8	326.4	369.7	312.4
90°	207.8	215.5	198.9	200.2	196.3	212.9	277.9	225.7	251.2	289.4	247.3
92.5°	179.8	184.9	173.4	175.9	173.4	186.1	232.0	186.1	206.5	237.1	202.7
95°	153.0	156.8	150.4	151.7	144.1	151.7	181.0	141.5	156.8	178.5	151.7
97.5°	122.4	126.2	122.4	122.4	114.7	118.6	139.0	109.6	119.8	133.9	114.7
100°	96.9	98.2	96.9	95.6	89.2	89.2	96.9	79.0	82.9	91.8	79.0
102.5°	73.9	75.2	73.9	72.7	65.0	61.2	61.2	51.0	53.5	56.1	49.7
105°	58.6	59.9	58.6	56.1	49.7	45.9	44.6	37.0	37.0	38.2	34.4
107.5°	48.4	48.4	48.4	45.9	42.1	37.0	33.1	26.8	26.8	28.0	26.8
110°	39.5	39.5	38.2	37.0	33.1	29.3	25.5	21.7	21.7	21.7	20.4



REPORT NUMBER: P588515
 CATALOG NUMBER: GAT-CA6-LED-80-722-U-33-5-6-X

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	33.1	33.1	31.9	30.6	26.8	22.9	20.4	17.8	17.8	17.8	16.6
115°	28.0	28.0	26.8	25.5	22.9	19.1	16.6	14.0	14.0	14.0	14.0
117.5°	24.2	24.2	22.9	21.7	19.1	16.6	14.0	11.5	11.5	11.5	11.5
120°	21.7	20.4	19.1	17.8	15.3	14.0	11.5	10.2	10.2	10.2	8.9
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



REPORT NUMBER: P588515
 CATALOG NUMBER: GAT-CA6-LED-80-722-U-33-5-6-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
2.5°	76.5	76.5	75.2	75.2	75.2	73.9	73.9	75.2	75.2	75.2	75.2
5°	81.6	80.3	77.8	75.2	73.9	72.7	71.4	71.4	73.9	73.9	73.9
7.5°	91.8	90.5	86.7	84.1	81.6	79.0	77.8	76.5	77.8	79.0	79.0
10°	102.0	100.7	95.6	91.8	90.5	88.0	86.7	85.4	86.7	86.7	86.7
12.5°	112.2	109.6	105.8	100.7	98.2	96.9	95.6	94.3	94.3	94.3	94.3
15°	121.1	117.3	113.5	109.6	107.1	104.5	103.3	102.0	103.3	104.5	104.5
17.5°	135.1	131.3	122.4	116.0	114.7	112.2	110.9	110.9	112.2	113.5	113.5
20°	150.4	142.8	132.6	126.2	124.9	121.1	119.8	119.8	121.1	122.4	122.4
22.5°	163.2	158.1	142.8	133.9	132.6	131.3	132.6	132.6	133.9	135.1	135.1
25°	207.8	187.4	165.7	159.4	158.1	155.5	153.0	151.7	153.0	156.8	158.1
27.5°	280.5	243.5	202.7	188.7	188.7	191.2	196.3	198.9	193.8	191.2	192.5
30°	328.9	279.2	220.6	207.8	210.4	223.1	234.6	242.2	237.1	233.3	234.6
32.5°	316.2	270.3	228.2	225.7	233.3	243.5	249.9	253.7	263.9	267.7	272.8
35°	288.1	253.7	230.8	241.0	246.1	246.1	246.1	246.1	265.2	283.0	288.1
37.5°	351.9	293.2	274.1	277.9	274.1	270.3	274.1	284.3	300.9	314.9	318.7
40°	413.1	339.1	307.3	304.7	303.4	316.2	339.1	357.0	362.1	349.3	351.9
42.5°	480.6	383.7	342.9	346.8	357.0	377.4	402.9	402.9	402.9	391.4	395.2
45°	544.4	436.0	411.8	422.0	422.0	432.2	446.2	437.3	448.8	453.9	460.2
47.5°	619.6	506.1	452.6	443.7	444.9	465.3	470.4	466.6	474.3	465.3	465.3
50°	642.6	517.6	475.5	510.0	510.0	487.0	467.9	470.4	492.1	516.3	521.4
52.5°	817.2	641.3	603.0	638.7	654.0	614.5	614.5	619.6	624.7	642.6	647.6
55°	1222.6	914.1	799.4	882.2	893.7	917.9	984.2	974.0	915.4	886.1	883.5
57.5°	1828.2	1356.5	995.7	1113.0	1186.9	1286.4	1336.1	1306.8	1227.7	1201.0	1171.6
60°	2336.9	1857.5	1290.2	1494.2	1605.1	1621.7	1603.8	1606.4	1546.5	1565.6	1557.9
62.5°	2525.6	2279.5	1658.6	1782.3	1798.9	1747.9	1795.1	1903.4	1806.5	1749.2	1740.2
65°	2581.7	2436.3	1761.9	1681.6	1666.3	1657.4	1843.5	2024.5	1807.8	1673.9	1672.7
67.5°	2525.6	2275.7	1630.6	1498.0	1533.7	1606.4	1848.6	1916.2	1712.2	1564.3	1554.1
70°	2452.9	2016.9	1467.4	1352.7	1435.5	1541.4	1695.6	1668.8	1588.5	1457.2	1450.8
72.5°	2189.0	1747.9	1362.9	1267.3	1361.6	1392.2	1468.7	1457.2	1480.2	1397.3	1393.5
75°	1959.5	1605.1	1300.4	1188.2	1234.1	1229.0	1290.2	1304.2	1369.2	1333.5	1319.5
77.5°	1690.5	1396.0	1146.1	1016.1	1033.9	1032.7	1062.0	1070.9	1116.8	1119.4	1104.1
80°	1323.3	1093.9	895.0	764.9	767.5	744.5	748.4	747.1	756.0	766.2	752.2
82.5°	759.8	610.7	507.4	424.5	406.7	376.1	369.7	372.3	368.4	365.9	365.9
85°	372.3	289.4	266.5	238.4	228.2	220.6	224.4	232.0	235.9	228.2	224.4
87.5°	251.2	216.7	206.5	195.1	190.0	182.3	187.4	193.8	198.9	192.5	191.2
90°	198.9	172.1	169.6	167.0	163.2	156.8	161.9	169.6	173.4	168.3	165.7
92.5°	160.6	139.0	139.0	137.7	133.9	128.8	135.1	141.5	145.3	141.5	140.2
95°	123.7	107.1	110.9	108.4	104.5	103.3	107.1	112.2	114.7	112.2	112.2
97.5°	95.6	84.1	88.0	86.7	81.6	80.3	82.9	86.7	89.2	86.7	85.4
100°	65.0	59.9	65.0	65.0	59.9	57.4	59.9	63.7	65.0	65.0	63.7
102.5°	43.3	40.8	47.2	48.4	45.9	43.3	44.6	47.2	48.4	48.4	48.4
105°	30.6	30.6	37.0	38.2	35.7	33.1	35.7	37.0	37.0	37.0	37.0
107.5°	24.2	25.5	29.3	31.9	29.3	26.8	28.0	29.3	29.3	29.3	30.6
110°	20.4	20.4	24.2	26.8	24.2	22.9	22.9	22.9	22.9	24.2	26.8



REPORT NUMBER: P588515
 CATALOG NUMBER: GAT-CA6-LED-80-722-U-33-5-6-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	16.6	17.8	20.4	21.7	20.4	19.1	19.1	19.1	19.1	20.4	24.2
115°	14.0	15.3	17.8	17.8	16.6	16.6	16.6	15.3	15.3	16.6	22.9
117.5°	11.5	12.7	14.0	14.0	14.0	12.7	12.7	12.7	12.7	15.3	24.2
120°	10.2	10.2	11.5	11.5	10.2	10.2	10.2	10.2	8.9	12.7	19.1
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)