

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: P588444

Luminaire Tested: **GAT-CA6-LED-50-722-U-33-5-X-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588444
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-50-722-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: 6502 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U3 - G4

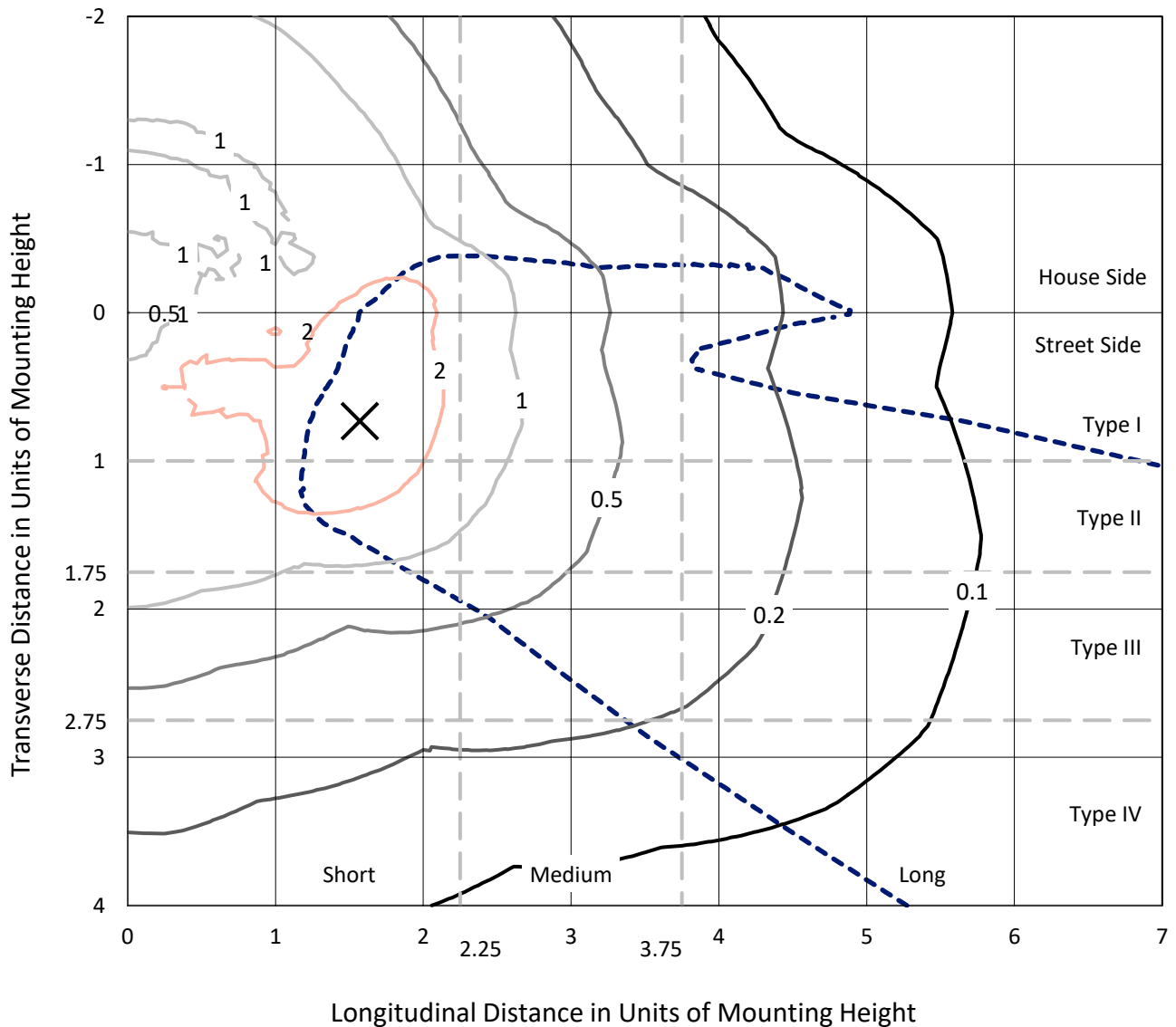
Input Watts (W): 54
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

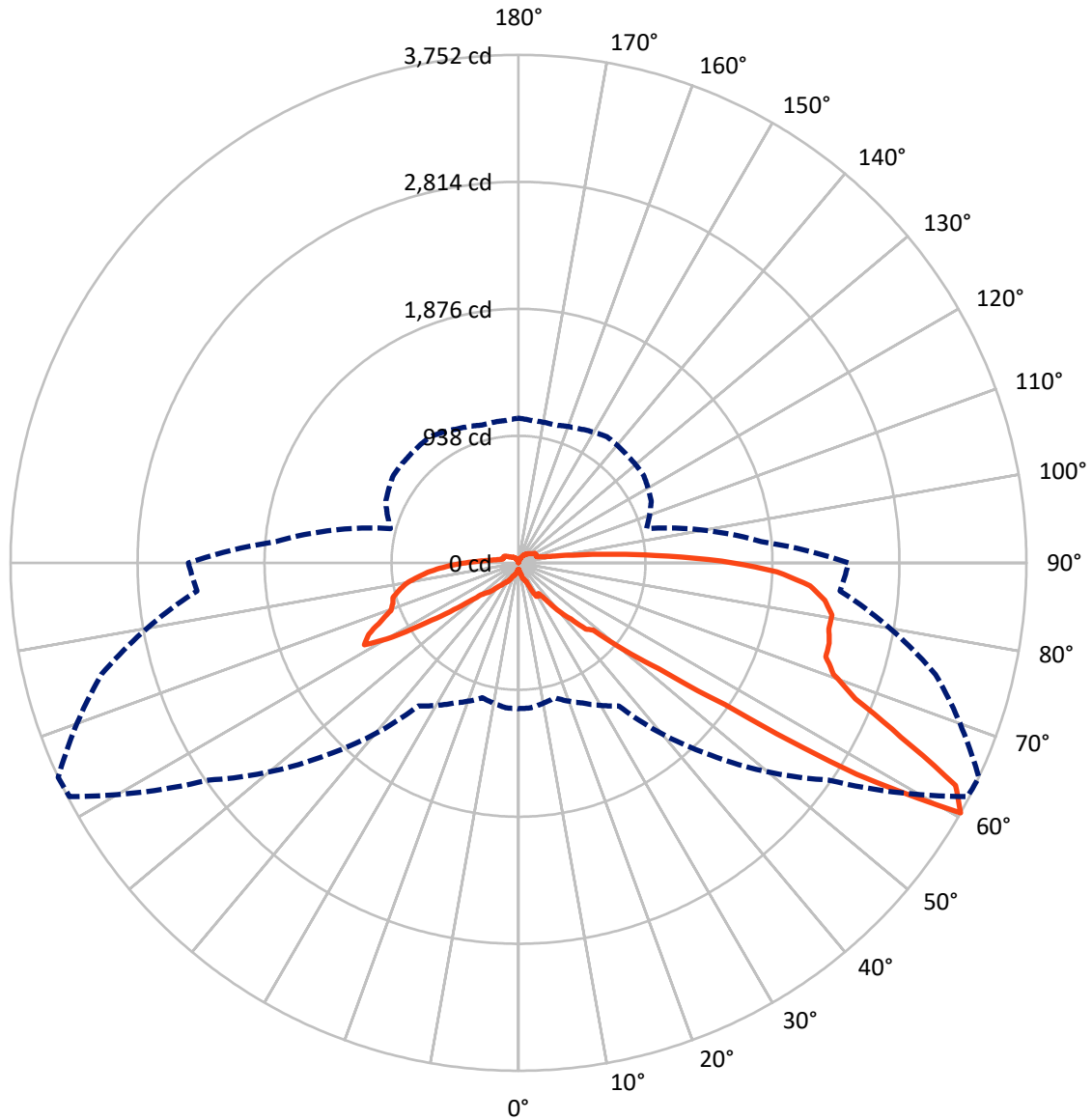
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 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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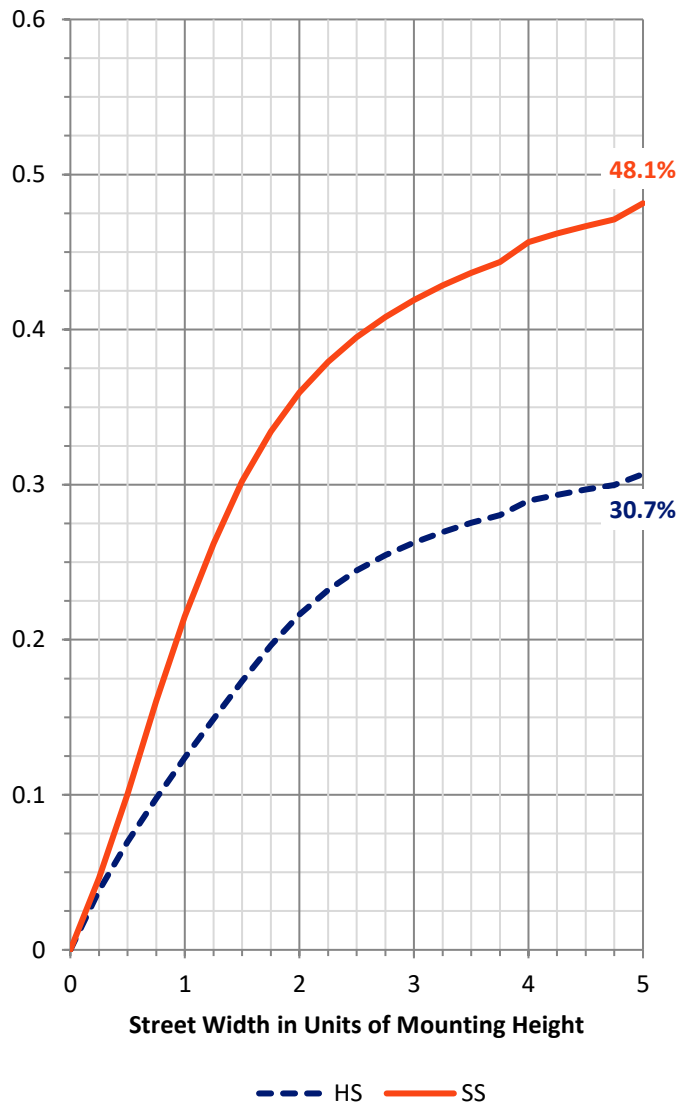
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2168.3	347.2	2515.5
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	3468.9	517.6	3986.5
	% Fixture	53.4	8.0	61.3
Total	Lumens	5637.2	864.8	6502.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.1
10°-20°	27.8	0.4
20°-30°	79.4	1.2
30°-40°	171.0	2.6
40°-50°	323.6	5.0
50°-60°	904.0	13.9
60°-70°	1611.7	24.8
70°-80°	1411.0	21.7
80°-90°	1102.5	17.0
90°-100°	416.8	6.4
100°-110°	143.4	2.2
110°-120°	117.2	1.8
120°-130°	78.8	1.2
130°-140°	54.1	0.8
140°-150°	34.0	0.5
150°-160°	15.8	0.2
160°-170°	4.5	0.1
170°-180°	0.4	0.0
0°-90°	5637.2	86.7
0°-180°	6502.0	100.0

Coefficient of Utilization

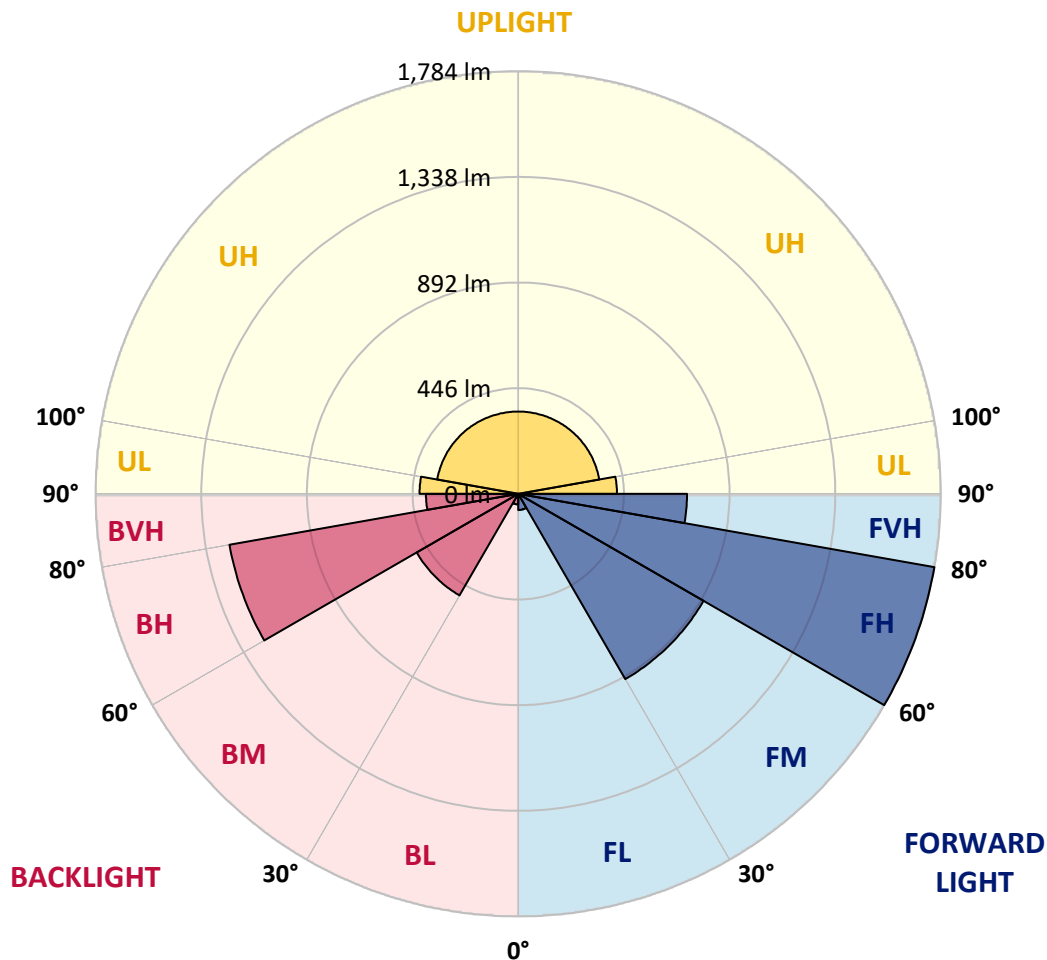


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	68.5	1.1			
FM (30°-60°)	903.4	13.9			
FH (60°-80°)	1784.4	27.4			G1/1800
FVH (80°-90°)	712.6	11.0			G4/750
BL (0°-30°)	44.9	0.7	B0/110		
BM (30°-60°)	495.2	7.6	B1/1000		
BH (60°-80°)	1238.2	19.0	B3/2500		G3/2500
BVH (80°-90°)	389.9	6.0			G3/500
UL (90°-100°)	416.8	6.4		U3/500	
UH (100°-180°)	347.2	5.3		U3/500	

BUG Rating: B3-U3-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
2.5°	57.3	55.6	54.0	54.0	53.1	52.3	52.3	50.6	51.4	50.6	50.6
5°	67.4	66.6	64.9	65.8	64.1	63.2	63.2	62.4	61.5	60.7	58.2
7.5°	78.4	78.4	79.2	80.1	77.6	75.0	74.2	72.5	72.5	71.7	70.0
10°	90.2	89.4	86.0	86.0	84.3	82.6	83.5	82.6	82.6	82.6	79.2
12.5°	93.6	92.7	90.2	90.2	90.2	89.4	92.7	91.9	92.7	91.9	86.8
15°	105.4	104.5	103.7	104.5	107.9	114.6	123.1	119.7	120.5	118.9	100.3
17.5°	110.4	113.0	114.6	115.5	118.9	118.9	120.5	119.7	123.1	125.6	114.6
20°	128.1	126.4	128.1	134.0	142.5	143.3	140.8	140.8	142.5	143.3	122.2
22.5°	135.7	134.9	141.6	136.6	136.6	140.8	156.0	150.9	150.9	149.2	131.5
25°	176.2	179.6	186.3	194.7	215.0	220.9	237.7	219.2	221.7	195.6	166.9
27.5°	211.6	214.1	253.7	289.1	305.2	296.7	311.1	276.5	279.9	283.2	243.6
30°	222.5	227.6	284.9	311.1	332.1	315.3	333.8	288.3	285.8	305.2	289.1
32.5°	214.1	219.2	279.9	290.8	312.7	375.1	351.5	278.2	270.6	279.9	299.3
35°	235.2	238.6	274.8	248.7	268.9	524.3	460.3	324.5	309.4	258.0	286.6
37.5°	282.4	282.4	325.4	343.9	359.1	618.7	604.4	403.8	392.0	301.8	331.3
40°	342.2	340.6	393.7	406.3	413.1	560.6	730.9	515.1	488.9	354.9	431.6
42.5°	378.5	375.1	418.1	431.6	431.6	474.6	827.0	627.2	566.5	413.9	527.7
45°	392.8	396.2	451.8	435.0	447.6	487.2	929.8	782.3	697.1	485.6	612.0
47.5°	355.7	360.8	440.9	442.6	378.5	389.5	833.7	812.6	742.7	520.1	639.0
50°	436.7	440.0	468.7	449.3	418.1	493.1	993.0	1044.4	1014.1	644.0	674.4
52.5°	599.4	614.5	641.5	658.4	649.1	828.6	1331.9	1322.6	1297.3	966.9	920.5
55°	776.4	789.0	827.0	929.0	1006.5	1240.9	1656.4	1850.3	1848.6	1570.5	1434.7
57.5°	937.4	938.2	943.3	1068.9	1188.6	1620.2	2169.8	2882.1	2946.2	2508.7	2054.3
60°	1077.3	1074.8	1031.8	1143.9	1289.8	2008.8	2797.0	3739.4	3752.1	3189.8	2383.1
62.5°	1115.3	1107.7	1045.3	1149.8	1274.6	2016.4	2957.2	3637.4	3623.1	3237.9	2426.1
65°	1082.4	1074.8	995.6	1089.1	1148.1	1832.6	2731.2	3128.3	3104.7	2958.0	2309.7
67.5°	1033.5	1038.5	960.1	1031.8	1072.3	1718.8	2493.5	2691.6	2684.9	2756.5	2212.8
70°	962.7	966.9	895.2	983.8	1042.8	1646.3	2265.9	2480.9	2469.1	2574.4	2070.3
72.5°	965.2	977.9	892.7	959.3	1020.8	1546.9	2163.1	2408.4	2373.8	2389.8	1899.2
75°	971.9	988.8	898.6	958.5	1015.8	1510.6	2151.3	2414.3	2370.4	2323.2	1834.3
77.5°	974.5	998.9	902.0	967.7	1017.5	1460.9	2124.3	2384.8	2343.5	2259.2	1757.6
80°	954.2	980.4	887.7	968.6	1006.5	1362.2	2056.0	2379.7	2348.5	2250.7	1726.4
82.5°	913.8	939.9	859.8	926.4	985.4	1261.9	1959.9	2281.1	2279.4	2169.8	1660.7
85°	825.3	853.9	793.2	854.8	927.3	1128.7	1766.0	2113.3	2159.7	2071.2	1572.1
87.5°	740.1	768.8	736.8	771.3	844.7	981.2	1517.4	1824.2	1911.0	1837.7	1350.4
90°	643.2	672.7	646.6	633.1	692.1	783.1	1213.0	1418.7	1500.5	1455.8	993.9
92.5°	515.1	540.3	515.9	484.7	520.1	574.9	901.1	993.0	1012.4	969.4	651.6
95°	389.5	408.0	386.1	354.9	359.1	393.7	621.3	650.8	645.7	594.3	413.9
97.5°	270.6	281.6	267.2	245.3	252.9	274.8	411.4	408.0	408.0	363.3	270.6
100°	188.0	192.2	185.5	175.3	181.2	195.6	276.5	275.7	267.2	245.3	197.3
102.5°	149.2	150.0	143.3	136.6	133.2	146.7	199.8	198.9	200.6	190.5	154.3
105°	131.5	130.7	124.8	118.9	112.1	125.6	158.5	165.2	164.4	156.0	132.3
107.5°	120.5	119.7	113.8	108.7	102.8	114.6	137.4	146.7	145.8	145.0	124.8
110°	112.1	111.3	106.2	101.2	96.1	109.6	129.0	143.3	143.3	143.3	126.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	106.2	106.2	102.0	97.8	93.6	108.7	123.9	140.8	140.8	145.0	132.3
115°	102.8	102.0	98.6	96.1	92.7	109.6	122.2	139.1	139.9	145.8	131.5
117.5°	100.3	99.5	96.9	93.6	91.9	107.9	123.1	142.5	141.6	150.9	129.0
120°	96.1	94.4	91.0	87.7	86.0	99.5	119.7	138.2	136.6	140.8	118.9
122.5°	92.7	87.7	81.8	79.2	79.2	90.2	112.1	124.8	123.1	119.7	107.1
125°	85.1	80.1	75.0	74.2	75.0	84.3	107.1	114.6	115.5	113.0	101.2
127.5°	76.7	73.3	70.8	70.8	72.5	82.6	105.4	110.4	110.4	105.4	96.1
130°	72.5	71.7	70.0	70.0	73.3	83.5	102.8	104.5	104.5	97.8	93.6
132.5°	70.8	69.1	67.4	67.4	70.8	80.9	96.1	99.5	98.6	91.9	88.5
135°	67.4	66.6	64.9	64.9	69.1	79.2	90.2	93.6	92.7	84.3	81.8
137.5°	65.8	64.1	64.1	64.1	68.3	78.4	85.1	87.7	86.8	78.4	75.9
140°	63.2	62.4	60.7	60.7	66.6	75.9	80.1	80.9	80.1	73.3	70.8
142.5°	59.0	58.2	57.3	59.0	64.9	71.7	75.0	75.0	74.2	70.0	66.6
145°	56.5	55.6	54.8	59.0	64.1	67.4	70.8	68.3	68.3	65.8	62.4
147.5°	54.0	53.1	53.1	56.5	60.7	60.7	63.2	62.4	63.2	62.4	59.0
150°	48.9	48.0	48.0	50.6	51.4	51.4	54.0	54.0	54.0	54.0	51.4
152.5°	43.0	42.1	43.0	43.8	43.8	43.8	45.5	46.4	46.4	45.5	44.7
155°	37.1	37.1	37.1	37.9	37.9	37.1	39.6	39.6	39.6	39.6	38.8
157.5°	32.9	32.9	32.9	32.9	32.9	32.0	33.7	33.7	34.6	33.7	33.7
160°	28.7	27.8	27.8	27.8	27.8	27.0	27.8	27.8	27.8	28.7	28.7
162.5°	22.8	21.9	21.9	21.9	21.9	20.2	21.9	21.1	21.9	21.9	22.8
165°	18.5	17.7	17.7	17.7	16.9	16.0	16.9	16.0	16.0	16.0	16.9
167.5°	14.3	14.3	13.5	14.3	13.5	11.8	11.8	11.0	11.0	11.0	11.0
170°	11.0	10.1	9.3	10.1	9.3	7.6	7.6	6.7	6.7	5.9	5.9
172.5°	7.6	6.7	5.9	6.7	5.9	4.2	4.2	2.5	2.5	2.5	2.5
175°	6.7	5.9	5.1	5.9	5.1	3.4	2.5	1.7	1.7	1.7	1.7
177.5°	6.7	5.9	5.1	5.9	5.1	3.4	2.5	1.7	1.7	1.7	1.7
180°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
2.5°	50.6	49.7	48.9	50.6	49.7	50.6	51.4	52.3	52.3	51.4	51.4
5°	58.2	57.3	55.6	54.8	53.1	53.1	53.1	54.8	54.8	54.0	54.8
7.5°	69.1	67.4	64.9	63.2	60.7	60.7	59.9	61.5	62.4	60.7	61.5
10°	77.6	76.7	73.3	70.8	68.3	67.4	67.4	68.3	68.3	67.4	67.4
12.5°	85.1	83.5	80.1	77.6	74.2	73.3	73.3	74.2	74.2	73.3	73.3
15°	96.1	91.0	87.7	85.1	81.8	80.9	80.1	80.9	81.8	80.1	80.1
17.5°	111.3	105.4	97.8	91.0	87.7	89.4	90.2	91.0	90.2	87.7	87.7
20°	119.7	116.3	106.2	101.2	96.9	96.9	96.9	96.9	96.9	96.1	96.9
22.5°	125.6	120.5	107.9	104.5	102.0	103.7	105.4	106.2	106.2	105.4	105.4
25°	152.6	134.0	121.4	118.9	115.5	116.3	114.6	114.6	115.5	114.6	116.3
27.5°	209.9	179.6	150.9	140.8	138.2	138.2	139.9	139.9	139.9	139.9	139.1
30°	252.0	216.6	169.4	156.0	154.3	161.9	166.1	169.4	167.8	165.2	165.2
32.5°	258.8	220.0	172.8	167.8	172.0	177.9	182.1	184.6	187.1	186.3	185.5
35°	244.5	203.2	170.3	177.0	180.4	183.8	184.6	182.9	190.5	193.9	194.7
37.5°	273.1	227.6	198.1	203.2	198.9	195.6	197.3	198.1	208.2	213.3	218.3
40°	349.0	274.8	225.1	222.5	220.0	227.6	237.7	242.8	241.9	238.6	239.4
42.5°	422.3	321.2	253.7	252.9	252.0	265.5	281.6	280.7	273.1	267.2	267.2
45°	497.4	365.9	299.3	300.1	298.4	303.5	307.7	304.3	305.2	306.8	308.5
47.5°	543.7	406.3	327.9	325.4	314.4	324.5	336.3	328.8	326.2	322.0	323.7
50°	554.7	416.4	344.8	363.3	353.2	345.6	333.0	327.9	337.2	343.9	349.0
52.5°	720.7	514.2	430.8	460.3	446.8	419.8	417.3	408.8	419.0	419.8	425.7
55°	1208.0	824.4	593.5	622.1	623.0	613.7	655.8	632.2	611.2	601.9	598.5
57.5°	1904.3	1274.6	767.9	804.2	838.8	871.6	929.0	880.9	820.2	812.6	821.1
60°	2438.7	1799.8	979.5	1081.5	1127.9	1129.6	1137.2	1090.0	1052.9	1056.2	1068.0
62.5°	2553.4	2238.1	1247.6	1289.8	1294.0	1262.8	1276.3	1306.6	1254.3	1213.0	1224.0
65°	2476.7	2411.7	1335.3	1225.7	1218.9	1224.0	1315.9	1400.2	1294.8	1190.3	1190.3
67.5°	2328.3	2279.4	1245.9	1102.6	1121.2	1178.5	1294.8	1337.0	1224.8	1113.6	1113.6
70°	2169.8	2072.0	1145.6	1004.8	1050.3	1116.9	1192.8	1196.2	1130.4	1051.2	1046.1
72.5°	1998.7	1910.2	1102.6	976.2	997.2	1009.0	1050.3	1076.5	1068.9	1017.5	1016.6
75°	1948.1	1876.5	1101.8	962.7	950.0	945.8	974.5	1031.0	1057.1	1026.7	1028.4
77.5°	1871.4	1828.4	1050.3	906.2	892.7	892.7	907.9	953.4	993.0	980.4	984.6
80°	1818.3	1753.4	971.9	844.7	826.1	828.6	830.3	861.5	898.6	900.3	900.3
82.5°	1716.3	1594.1	853.1	752.8	740.1	743.5	737.6	755.3	765.4	778.1	775.5
85°	1548.5	1375.7	720.7	652.5	632.2	625.5	620.4	621.3	627.2	624.6	614.5
87.5°	1297.3	1090.8	574.9	535.3	511.7	494.8	488.1	479.7	478.8	469.5	472.9
90°	957.6	748.6	426.5	412.2	395.4	377.7	368.4	360.0	353.2	343.9	340.6
92.5°	624.6	482.2	311.9	304.3	293.4	283.2	279.0	274.8	273.1	265.5	268.1
95°	390.3	326.2	234.3	225.9	220.0	217.5	218.3	219.2	217.5	209.1	211.6
97.5°	260.5	236.0	182.9	177.0	171.1	170.3	171.1	172.8	173.7	167.8	169.4
100°	192.2	181.2	150.0	145.8	140.8	139.1	139.9	141.6	142.5	137.4	138.2
102.5°	152.6	147.5	129.8	128.1	122.2	120.5	122.2	123.1	123.9	120.5	120.5
105°	134.0	134.0	119.7	118.9	114.6	113.0	113.8	114.6	115.5	112.1	112.1
107.5°	129.0	129.8	115.5	116.3	113.8	113.0	114.6	116.3	115.5	113.0	112.1
110°	133.2	134.9	115.5	118.0	118.9	120.5	123.9	124.8	124.8	123.1	123.9



REPORT NUMBER: P588444

CATALOG NUMBER: GAT-CA6-LED-50-722-U-33-5-X-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	137.4	139.9	113.8	119.7	125.6	129.8	135.7	139.1	137.4	136.6	137.4
115°	134.0	135.7	106.2	115.5	126.4	132.3	134.0	134.0	129.8	129.8	130.7
117.5°	129.8	133.2	98.6	106.2	113.8	118.9	118.0	115.5	110.4	108.7	113.8
120°	120.5	130.7	94.4	96.1	96.9	98.6	96.1	93.6	89.4	88.5	91.9
122.5°	111.3	120.5	86.8	85.1	84.3	84.3	83.5	82.6	80.1	80.9	84.3
125°	103.7	108.7	79.2	76.7	75.9	76.7	76.7	76.7	75.0	73.3	73.3
127.5°	97.8	99.5	75.0	71.7	70.8	70.8	70.8	71.7	70.8	68.3	68.3
130°	94.4	93.6	72.5	66.6	65.8	66.6	66.6	67.4	65.8	64.1	64.1
132.5°	87.7	86.0	69.1	63.2	62.4	63.2	63.2	63.2	61.5	59.9	59.9
135°	80.1	78.4	64.9	59.0	58.2	59.0	59.0	59.9	58.2	56.5	56.5
137.5°	74.2	72.5	60.7	55.6	54.8	54.8	55.6	55.6	54.8	53.1	53.1
140°	69.1	67.4	56.5	52.3	50.6	51.4	51.4	51.4	50.6	48.9	48.9
142.5°	64.9	64.1	52.3	48.0	46.4	47.2	47.2	48.0	46.4	44.7	44.7
145°	61.5	59.9	48.9	43.8	43.0	43.0	43.0	43.8	42.1	40.5	40.5
147.5°	58.2	56.5	44.7	39.6	38.8	38.8	38.8	38.8	37.9	36.2	35.4
150°	51.4	50.6	41.3	36.2	34.6	34.6	34.6	33.7	32.0	30.3	30.3
152.5°	43.8	43.0	36.2	32.0	30.3	30.3	29.5	29.5	27.8	27.0	26.1
155°	37.9	37.9	32.9	28.7	27.0	26.1	25.3	25.3	24.4	23.6	22.8
157.5°	33.7	32.9	29.5	26.1	22.8	22.8	21.9	21.9	21.1	20.2	19.4
160°	28.7	28.7	25.3	21.9	19.4	18.5	18.5	17.7	16.9	16.0	16.0
162.5°	22.8	22.8	20.2	17.7	15.2	15.2	14.3	14.3	13.5	12.6	11.8
165°	16.0	16.0	15.2	13.5	11.8	11.0	11.0	11.0	10.1	9.3	9.3
167.5°	11.0	11.0	10.1	9.3	8.4	7.6	8.4	8.4	7.6	6.7	6.7
170°	5.9	5.9	5.1	5.1	4.2	4.2	5.1	5.9	5.1	4.2	3.4
172.5°	2.5	2.5	2.5	2.5	1.7	2.5	3.4	4.2	3.4	2.5	2.5
175°	1.7	1.7	2.5	2.5	1.7	2.5	3.4	4.2	3.4	2.5	2.5
177.5°	1.7	1.7	2.5	2.5	1.7	2.5	3.4	4.2	3.4	2.5	2.5
180°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4

(END OF REPORT)