

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: P588491

Luminaire Tested: **GAT-CA6-LED-70-722-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588491
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-70-722-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: 5915 lumens
Efficiency: N/A
Efficacy: 80.0 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

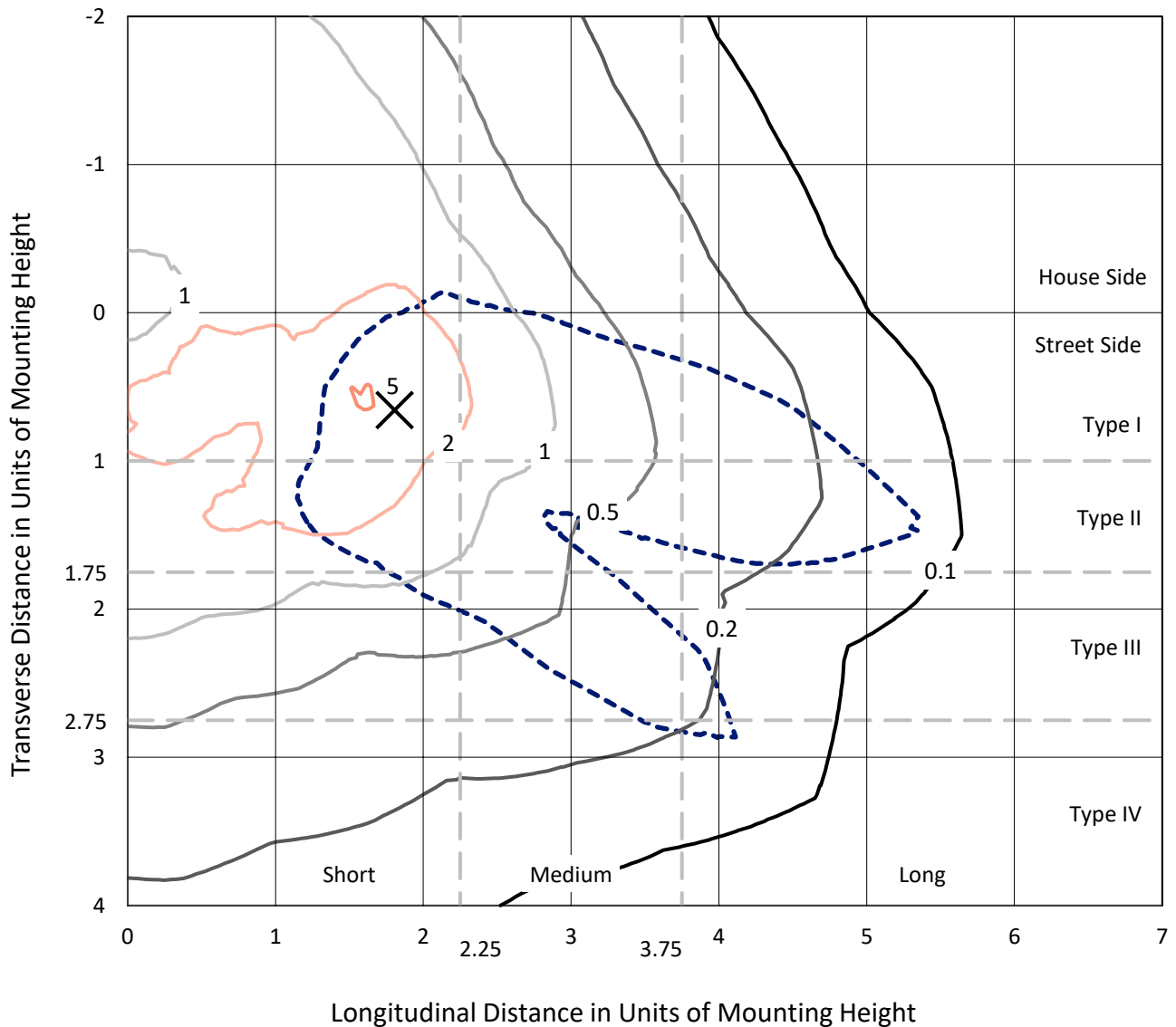
Input Watts (W): 73.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

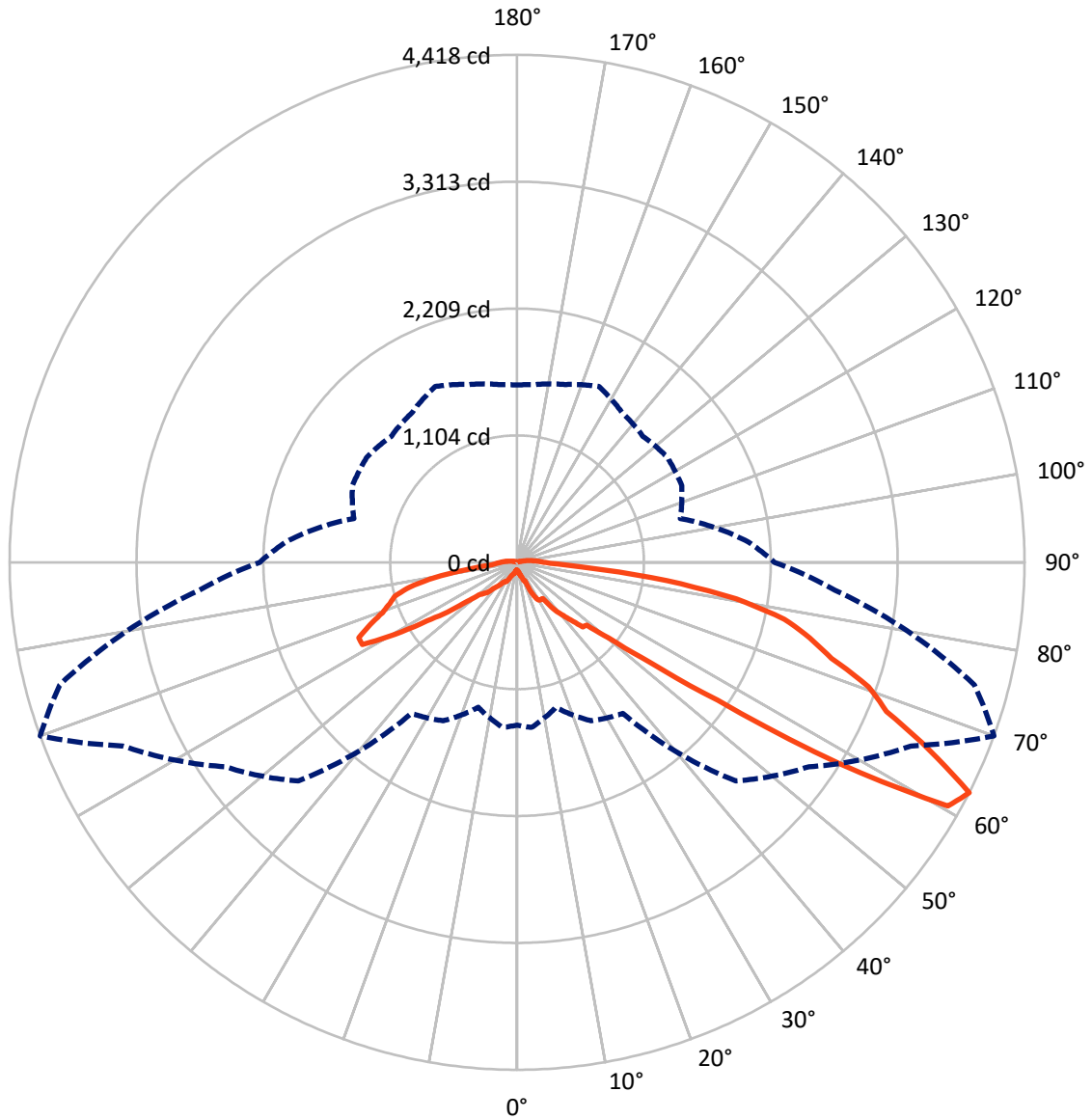
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 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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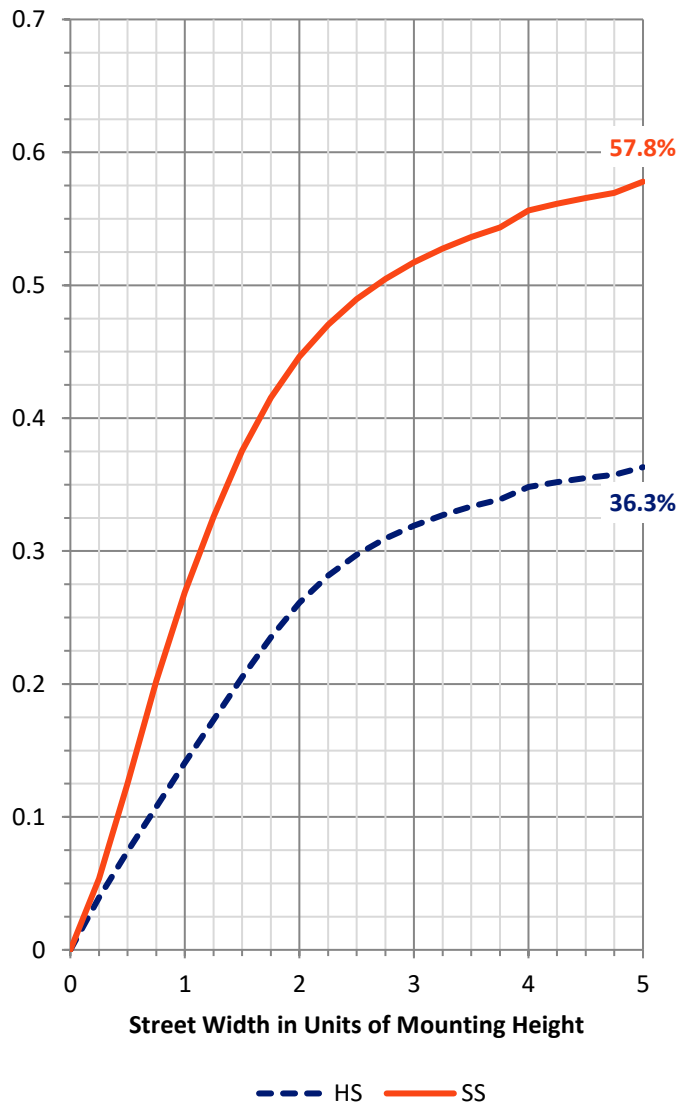
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2192.2	80.4	2272.6
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	3532.0	110.4	3642.4
	% Fixture	59.7	1.9	61.6
Total	Lumens	5724.2	190.8	5915.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.1
10°-20°	32.2	0.5
20°-30°	99.8	1.7
30°-40°	214.0	3.6
40°-50°	400.9	6.8
50°-60°	1040.4	17.6
60°-70°	1905.8	32.2
70°-80°	1528.7	25.8
80°-90°	495.0	8.4
90°-100°	130.4	2.2
100°-110°	42.4	0.7
110°-120°	16.6	0.3
120°-130°	1.3	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°	5724.2	96.8
0°-180°	5915.0	100.0

Coefficient of Utilization



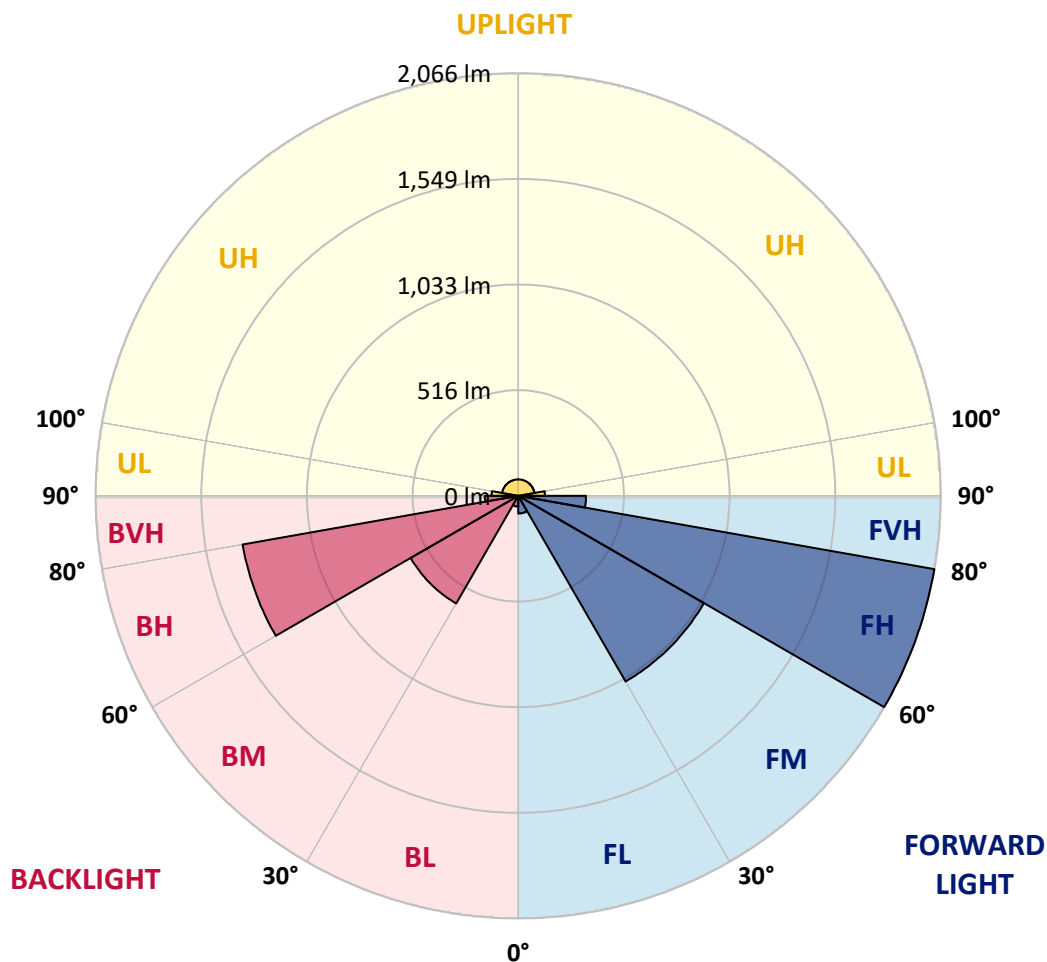
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	86.8	1.5			
FM (30°-60°)	1048.1	17.7			
FH (60°-80°)	2066.0	34.9			G2/5000
FVH (80°-90°)	331.2	5.6			G3/500
BL (0°-30°)	52.7	0.9	B0/110		
BM (30°-60°)	607.3	10.3	B1/1000		
BH (60°-80°)	1368.5	23.1	B3/2500		G3/2500
BVH (80°-90°)	163.8	2.8			G2/225
UL (90°-100°)	130.4	2.2		U3/500	
UH (100°-180°)	80.4	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°	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
2.5°	75.8	75.8	75.8	74.6	73.5	72.4	71.2	71.2	70.1	69.0	67.8
5°	82.5	81.4	80.3	78.0	76.9	76.9	75.8	75.8	75.8	74.6	73.5
7.5°	91.6	91.6	90.5	89.3	88.2	87.1	85.9	84.8	84.8	83.7	82.5
10°	104.0	104.0	104.0	102.9	102.9	101.8	99.5	98.4	96.1	95.0	91.6
12.5°	116.5	117.6	115.3	115.3	115.3	114.2	111.9	110.8	108.6	106.3	101.8
15°	128.9	127.8	126.6	125.5	127.8	127.8	126.6	126.6	122.1	118.7	110.8
17.5°	140.2	140.2	141.3	141.3	144.7	143.6	143.6	142.5	140.2	134.6	124.4
20°	158.3	159.4	159.4	159.4	170.7	175.3	176.4	177.5	174.1	162.8	142.5
22.5°	176.4	177.5	185.4	183.2	183.2	183.2	194.5	188.8	174.1	160.6	149.3
25°	238.6	242.0	244.2	252.2	261.2	286.1	325.7	313.2	290.6	244.2	205.8
27.5°	298.5	303.0	343.8	400.3	408.2	378.8	407.1	369.8	358.5	311.0	279.3
30°	325.7	333.6	403.7	442.1	455.7	417.3	458.0	386.7	383.3	349.4	322.3
32.5°	332.4	338.1	415.0	419.5	422.9	418.4	479.4	392.4	384.5	350.5	311.0
35°	322.3	329.1	381.1	355.1	356.2	436.5	550.7	422.9	386.7	327.9	283.8
37.5°	396.9	396.9	441.0	447.8	477.2	574.4	721.4	558.6	517.9	427.4	373.2
40°	452.3	458.0	528.1	554.1	558.6	641.1	903.5	654.7	597.0	478.3	436.5
42.5°	526.9	525.8	590.3	608.3	620.8	651.3	923.8	753.1	685.2	541.6	510.0
45°	539.4	557.5	616.3	595.9	611.7	689.8	964.5	892.2	801.7	661.5	595.9
47.5°	489.6	514.5	633.2	616.3	552.9	589.1	773.4	915.9	816.4	679.6	633.2
50°	528.1	541.6	600.4	589.1	504.3	626.4	849.2	1147.7	1036.9	808.5	689.8
52.5°	683.0	712.4	722.6	766.7	725.9	937.4	1188.4	1454.2	1439.5	1170.3	910.3
55°	877.5	920.4	965.7	1133.0	1156.8	1472.2	1658.8	1942.6	2119.0	1851.1	1396.5
57.5°	1087.8	1148.9	1134.2	1377.3	1414.6	1994.7	2166.5	2831.4	3302.9	2938.8	2045.5
60°	1291.3	1332.0	1249.5	1463.2	1534.4	2511.4	2763.6	3687.4	4308.2	3920.3	2519.3
62.5°	1416.8	1442.8	1307.2	1522.0	1605.7	2691.2	3101.7	3783.5	4417.9	4122.8	2776.0
65°	1415.7	1408.9	1254.0	1440.6	1429.3	2484.3	2997.6	3179.7	3946.4	3896.6	2808.8
67.5°	1360.3	1362.6	1199.7	1347.9	1301.5	2190.3	2777.1	2690.1	3469.2	3535.9	2731.9
70°	1307.2	1334.3	1179.4	1308.3	1286.8	2106.6	2681.0	2421.0	3245.3	3371.9	2650.5
72.5°	1232.5	1258.5	1112.7	1225.7	1233.7	1939.3	2517.1	2113.4	2862.0	3014.6	2375.7
75°	1231.4	1264.2	1127.4	1226.9	1239.3	1844.3	2537.4	2007.1	2632.4	2837.1	2217.4
77.5°	1161.3	1190.7	1064.0	1156.8	1191.8	1669.0	2421.0	1874.8	2378.0	2607.5	2010.5
80°	932.9	972.5	868.4	929.5	948.7	1251.8	1941.5	1535.6	1934.7	2164.3	1643.0
82.5°	637.7	673.9	605.0	650.2	675.1	820.9	1342.2	1105.9	1315.1	1455.3	1029.0
85°	368.6	411.6	370.9	365.2	377.7	433.1	722.6	588.0	611.7	643.4	456.8
87.5°	231.8	238.6	218.2	219.4	221.6	237.5	329.1	262.3	289.5	327.9	277.0
90°	184.3	191.1	176.4	177.5	174.1	188.8	246.5	200.1	222.8	256.7	219.4
92.5°	159.4	164.0	153.8	156.0	153.8	165.1	205.8	165.1	183.2	210.3	179.8
95°	135.7	139.1	133.4	134.6	127.8	134.6	160.6	125.5	139.1	158.3	134.6
97.5°	108.6	111.9	108.6	108.6	101.8	105.2	123.3	97.2	106.3	118.7	101.8
100°	85.9	87.1	85.9	84.8	79.2	79.2	85.9	70.1	73.5	81.4	70.1
102.5°	65.6	66.7	65.6	64.5	57.7	54.3	54.3	45.2	47.5	49.8	44.1
105°	52.0	53.1	52.0	49.8	44.1	40.7	39.6	32.8	32.8	33.9	30.5
107.5°	43.0	43.0	43.0	40.7	37.3	32.8	29.4	23.7	23.7	24.9	23.7
110°	35.1	35.1	33.9	32.8	29.4	26.0	22.6	19.2	19.2	19.2	18.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	29.4	29.4	28.3	27.1	23.7	20.4	18.1	15.8	15.8	15.8	14.7
115°	24.9	24.9	23.7	22.6	20.4	17.0	14.7	12.4	12.4	12.4	12.4
117.5°	21.5	21.5	20.4	19.2	17.0	14.7	12.4	10.2	10.2	10.2	10.2
120°	19.2	18.1	17.0	15.8	13.6	12.4	10.2	9.0	9.0	9.0	7.9
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°	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
2.5°	67.8	67.8	66.7	66.7	66.7	65.6	65.6	66.7	66.7	66.7	66.7
5°	72.4	71.2	69.0	66.7	65.6	64.5	63.3	63.3	65.6	65.6	65.6
7.5°	81.4	80.3	76.9	74.6	72.4	70.1	69.0	67.8	69.0	70.1	70.1
10°	90.5	89.3	84.8	81.4	80.3	78.0	76.9	75.8	76.9	76.9	76.9
12.5°	99.5	97.2	93.9	89.3	87.1	85.9	84.8	83.7	83.7	83.7	83.7
15°	107.4	104.0	100.6	97.2	95.0	92.7	91.6	90.5	91.6	92.7	92.7
17.5°	119.9	116.5	108.6	102.9	101.8	99.5	98.4	98.4	99.5	100.6	100.6
20°	133.4	126.6	117.6	111.9	110.8	107.4	106.3	106.3	107.4	108.6	108.6
22.5°	144.7	140.2	126.6	118.7	117.6	116.5	117.6	117.6	118.7	119.9	119.9
25°	184.3	166.2	147.0	141.3	140.2	138.0	135.7	134.6	135.7	139.1	140.2
27.5°	248.8	216.0	179.8	167.4	167.4	169.6	174.1	176.4	171.9	169.6	170.7
30°	291.7	247.6	195.6	184.3	186.6	197.9	208.1	214.8	210.3	206.9	208.1
32.5°	280.4	239.7	202.4	200.1	206.9	216.0	221.6	225.0	234.1	237.5	242.0
35°	255.6	225.0	204.7	213.7	218.2	218.2	218.2	218.2	235.2	251.0	255.6
37.5°	312.1	260.1	243.1	246.5	243.1	239.7	243.1	252.2	266.9	279.3	282.7
40°	366.4	300.8	272.5	270.3	269.1	280.4	300.8	316.6	321.1	309.8	312.1
42.5°	426.3	340.4	304.2	307.6	316.6	334.7	357.3	357.3	357.3	347.1	350.5
45°	482.8	386.7	365.2	374.3	374.3	383.3	395.8	387.9	398.0	402.6	408.2
47.5°	549.5	448.9	401.4	393.5	394.6	412.7	417.3	413.9	420.6	412.7	412.7
50°	569.9	459.1	421.8	452.3	452.3	432.0	415.0	417.3	436.5	458.0	462.5
52.5°	724.8	568.8	534.8	566.5	580.1	545.0	545.0	549.5	554.1	569.9	574.4
55°	1084.4	810.8	709.0	782.5	792.7	814.1	872.9	863.9	811.9	785.9	783.6
57.5°	1621.5	1203.1	883.1	987.2	1052.7	1140.9	1185.0	1159.0	1088.9	1065.2	1039.2
60°	2072.7	1647.5	1144.3	1325.3	1423.6	1438.3	1422.5	1424.8	1371.6	1388.6	1381.8
62.5°	2240.0	2021.8	1471.1	1580.8	1595.5	1550.3	1592.1	1688.2	1602.3	1551.4	1543.5
65°	2289.8	2160.9	1562.7	1491.5	1477.9	1470.0	1635.1	1795.6	1603.4	1484.7	1483.6
67.5°	2240.0	2018.4	1446.2	1328.6	1360.3	1424.8	1639.6	1699.5	1518.6	1387.4	1378.4
70°	2175.6	1788.9	1301.5	1199.7	1273.2	1367.1	1503.9	1480.2	1408.9	1292.5	1286.8
72.5°	1941.5	1550.3	1208.8	1124.0	1207.7	1234.8	1302.6	1292.5	1312.8	1239.3	1235.9
75°	1738.0	1423.6	1153.4	1053.9	1094.6	1090.1	1144.3	1156.8	1214.4	1182.8	1170.3
77.5°	1499.4	1238.2	1016.6	901.2	917.0	915.9	941.9	949.8	990.5	992.8	979.2
80°	1173.7	970.2	793.8	678.5	680.7	660.4	663.8	662.6	670.5	679.6	667.1
82.5°	673.9	541.6	450.0	376.5	360.7	333.6	327.9	330.2	326.8	324.5	324.5
85°	330.2	256.7	236.3	211.5	202.4	195.6	199.0	205.8	209.2	202.4	199.0
87.5°	222.8	192.2	183.2	173.0	168.5	161.7	166.2	171.9	176.4	170.7	169.6
90°	176.4	152.7	150.4	148.1	144.7	139.1	143.6	150.4	153.8	149.3	147.0
92.5°	142.5	123.3	123.3	122.1	118.7	114.2	119.9	125.5	128.9	125.5	124.4
95°	109.7	95.0	98.4	96.1	92.7	91.6	95.0	99.5	101.8	99.5	99.5
97.5°	84.8	74.6	78.0	76.9	72.4	71.2	73.5	76.9	79.2	76.9	75.8
100°	57.7	53.1	57.7	57.7	53.1	50.9	53.1	56.5	57.7	57.7	56.5
102.5°	38.4	36.2	41.8	43.0	40.7	38.4	39.6	41.8	43.0	43.0	43.0
105°	27.1	27.1	32.8	33.9	31.7	29.4	31.7	32.8	32.8	32.8	32.8
107.5°	21.5	22.6	26.0	28.3	26.0	23.7	24.9	26.0	26.0	26.0	27.1
110°	18.1	18.1	21.5	23.7	21.5	20.4	20.4	20.4	20.4	21.5	23.7



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 CATALOG NUMBER: GAT-CA6-LED-70-722-U-33-5-6-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	14.7	15.8	18.1	19.2	18.1	17.0	17.0	17.0	17.0	18.1	21.5
115°	12.4	13.6	15.8	15.8	14.7	14.7	14.7	13.6	13.6	14.7	20.4
117.5°	10.2	11.3	12.4	12.4	12.4	11.3	11.3	11.3	11.3	13.6	21.5
120°	9.0	9.0	10.2	10.2	9.0	9.0	9.0	9.0	7.9	11.3	17.0
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)