

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: P588471

Luminaire Tested: **GAT-CA6-LED-60-727-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588471
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-60-727-U-33-5-6-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5738 lumens
Efficiency: N/A
Efficacy: 89.2 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

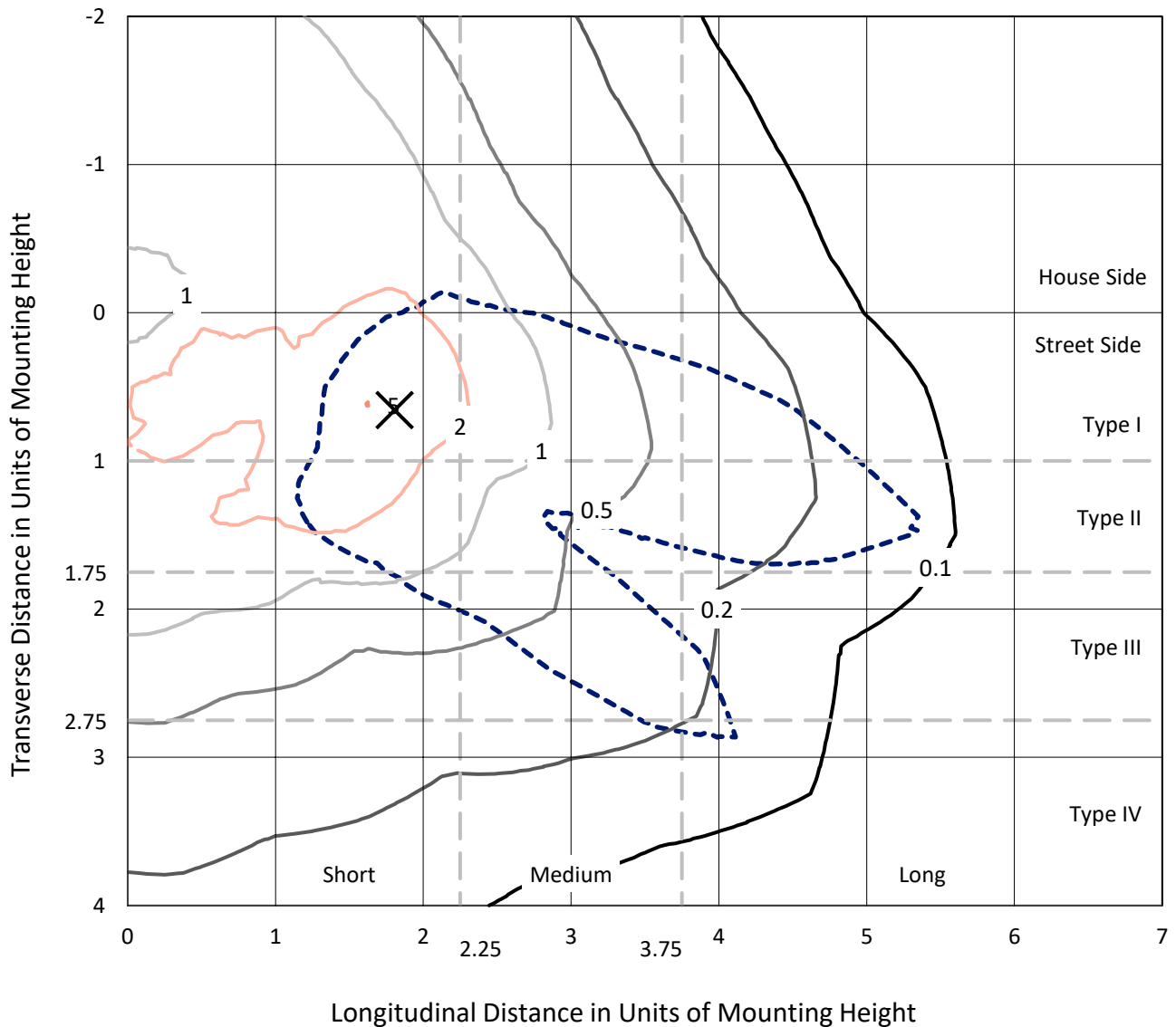
Input Watts (W): 64.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

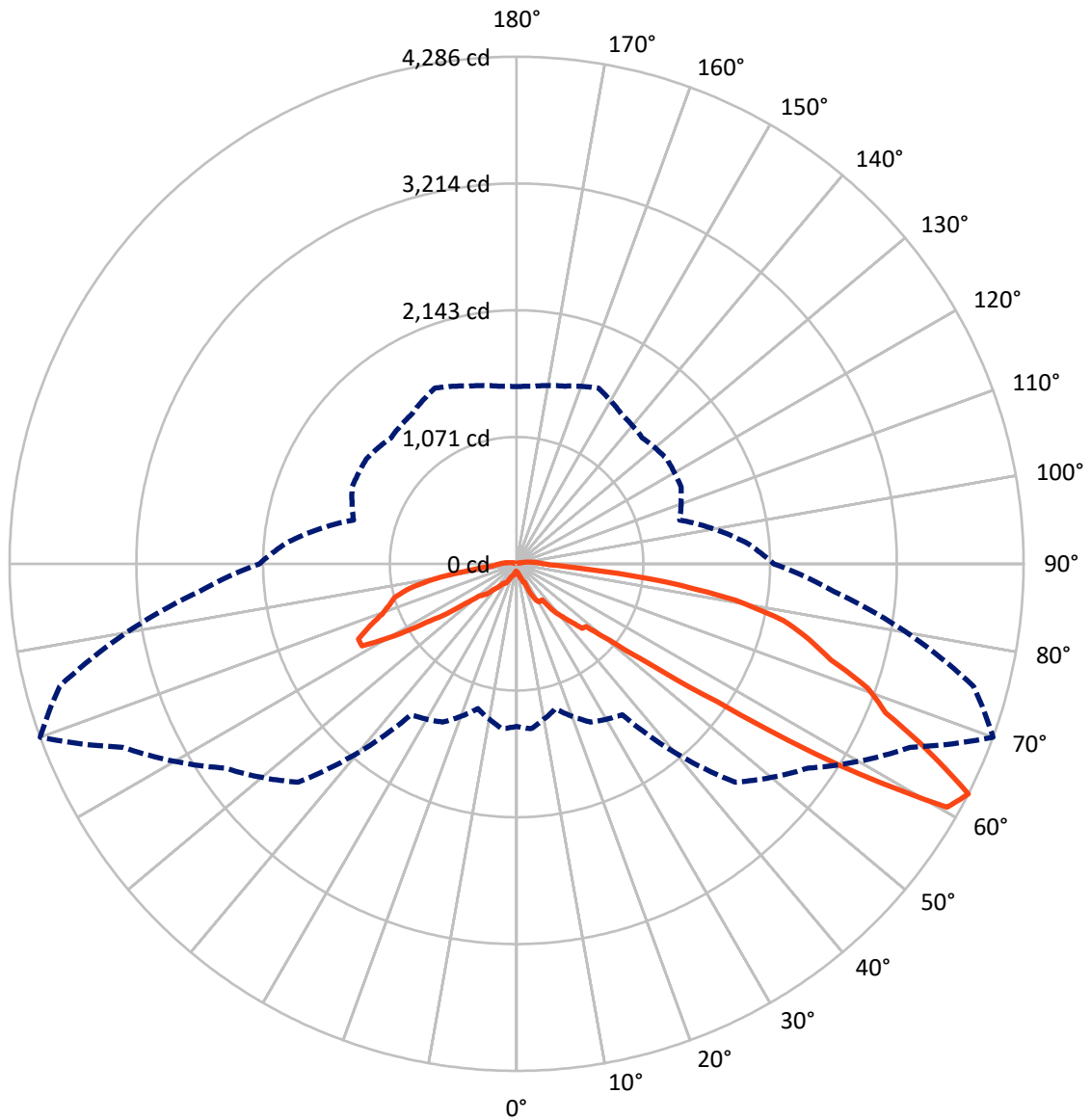
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 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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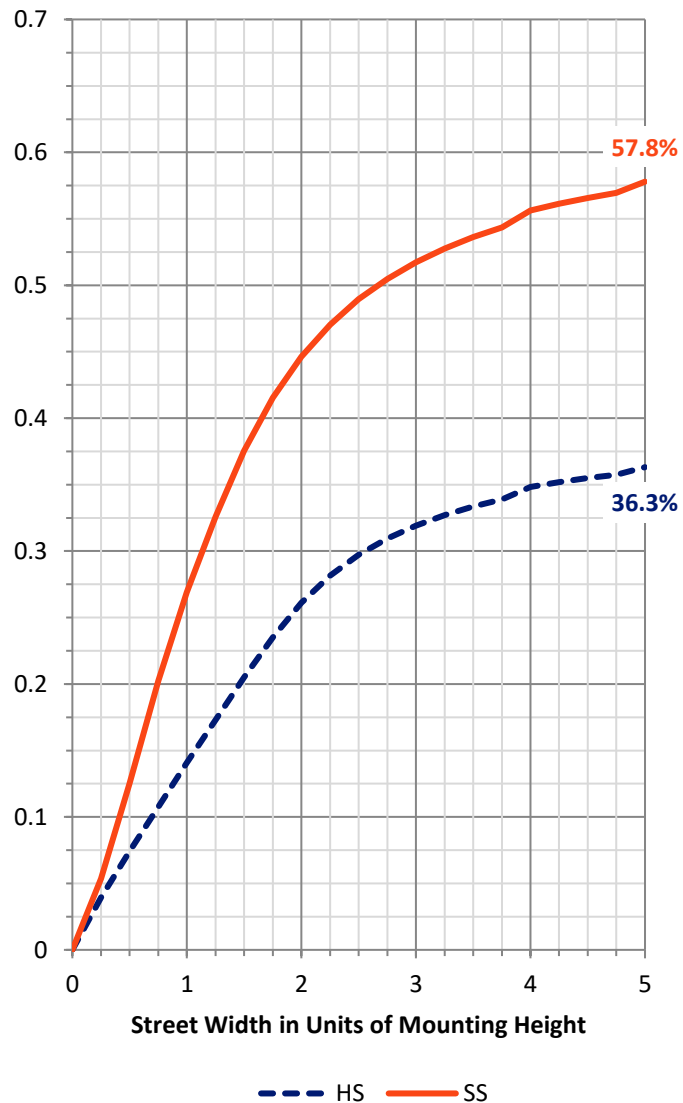
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2126.6	78.0	2204.6
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	3426.3	107.1	3533.4
	% Fixture	59.7	1.9	61.6
Total	Lumens	5552.9	185.1	5738.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	0.1
10°-20°	31.2	0.5
20°-30°	96.8	1.7
30°-40°	207.6	3.6
40°-50°	388.9	6.8
50°-60°	1009.3	17.6
60°-70°	1848.8	32.2
70°-80°	1482.9	25.8
80°-90°	480.2	8.4
90°-100°	126.5	2.2
100°-110°	41.2	0.7
110°-120°	16.2	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°	5552.9	96.8
0°-180°	5738.0	100.0

Coefficient of Utilization



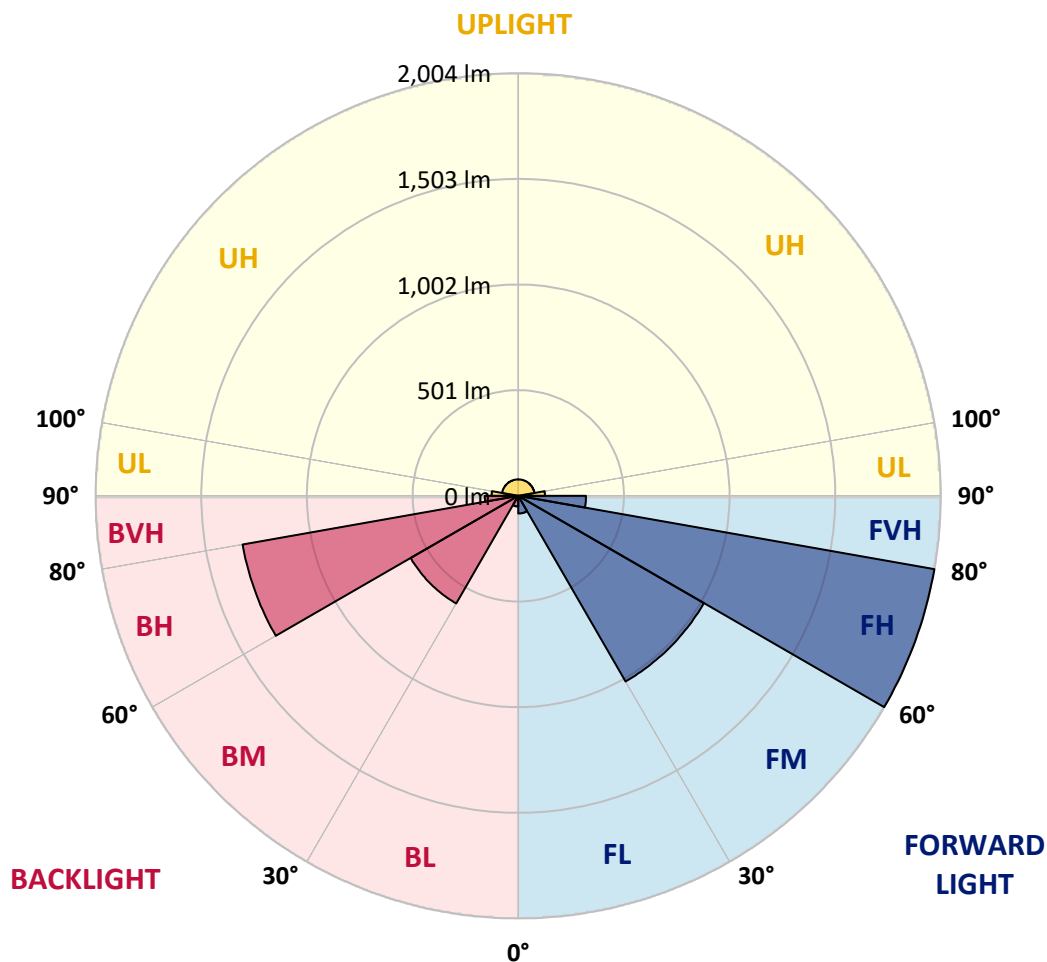
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	84.2	1.5			
FM (30°-60°)	1016.7	17.7			
FH (60°-80°)	2004.1	34.9			G2/5000
FVH (80°-90°)	321.2	5.6			G3/500
BL (0°-30°)	51.1	0.9	B0/110		
BM (30°-60°)	589.1	10.3	B1/1000		
BH (60°-80°)	1327.5	23.1	B3/2500		G3/2500
BVH (80°-90°)	158.9	2.8			G2/225
UL (90°-100°)	126.5	2.2		U3/500	
UH (100°-180°)	78.0	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°	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
2.5°	73.5	73.5	73.5	72.4	71.3	70.2	69.1	69.1	68.0	66.9	65.8
5°	80.1	79.0	77.9	75.7	74.6	74.6	73.5	73.5	73.5	72.4	71.3
7.5°	88.9	88.9	87.8	86.7	85.6	84.5	83.4	82.3	82.3	81.2	80.1
10°	100.9	100.9	100.9	99.8	99.8	98.7	96.5	95.4	93.2	92.1	88.9
12.5°	113.0	114.1	111.9	111.9	111.9	110.8	108.6	107.5	105.3	103.1	98.7
15°	125.0	124.0	122.9	121.8	124.0	124.0	122.9	122.9	118.5	115.2	107.5
17.5°	136.0	136.0	137.1	137.1	140.4	139.3	139.3	138.2	136.0	130.5	120.7
20°	153.6	154.7	154.7	154.7	165.6	170.0	171.1	172.2	168.9	158.0	138.2
22.5°	171.1	172.2	179.9	177.7	177.7	177.7	188.7	183.2	168.9	155.8	144.8
25°	231.5	234.7	236.9	244.6	253.4	277.5	315.9	303.8	281.9	236.9	199.6
27.5°	289.6	294.0	333.5	388.3	396.0	367.5	394.9	358.7	347.7	301.7	270.9
30°	315.9	323.6	391.6	428.9	442.1	404.8	444.3	375.1	371.9	338.9	312.6
32.5°	322.5	328.0	402.6	407.0	410.2	405.9	465.1	380.6	373.0	340.0	301.7
35°	312.6	319.2	369.7	344.4	345.5	423.4	534.2	410.2	375.1	318.1	275.3
37.5°	385.0	385.0	427.8	434.4	462.9	557.2	699.8	541.9	502.4	414.6	362.0
40°	438.8	444.3	512.3	537.5	541.9	622.0	876.4	635.1	579.2	464.0	423.4
42.5°	511.2	510.1	572.6	590.1	602.2	631.8	896.2	730.6	664.7	525.4	494.7
45°	523.2	540.8	597.8	578.1	593.4	669.1	935.7	865.5	777.7	641.7	578.1
47.5°	475.0	499.1	614.3	597.8	536.4	571.5	750.3	888.5	792.0	659.3	614.3
50°	512.3	525.4	582.5	571.5	489.2	607.7	823.8	1113.4	1005.9	784.3	669.1
52.5°	662.5	691.1	700.9	743.7	704.2	909.3	1152.9	1410.6	1396.4	1135.3	883.0
55°	851.2	892.9	936.8	1099.1	1122.2	1428.2	1609.2	1884.5	2055.6	1795.7	1354.7
57.5°	1055.2	1114.5	1100.2	1336.1	1372.3	1935.0	2101.7	2746.7	3204.1	2850.9	1984.3
60°	1252.7	1292.2	1212.1	1419.4	1488.5	2436.3	2680.9	3577.1	4179.3	3803.0	2443.9
62.5°	1374.4	1399.7	1268.0	1476.5	1557.6	2610.7	3008.9	3670.3	4285.7	3999.4	2692.9
65°	1373.3	1366.8	1216.5	1397.5	1386.5	2409.9	2907.9	3084.5	3828.3	3780.0	2724.8
67.5°	1319.6	1321.8	1163.8	1307.5	1262.6	2124.7	2694.0	2609.6	3365.4	3430.1	2650.2
70°	1268.0	1294.4	1144.1	1269.1	1248.3	2043.6	2600.8	2348.5	3148.2	3271.0	2571.2
72.5°	1195.6	1220.9	1079.4	1189.1	1196.7	1881.2	2441.8	2050.1	2776.3	2924.4	2304.6
75°	1194.5	1226.4	1093.6	1190.2	1202.2	1789.1	2461.5	1947.0	2553.6	2752.2	2151.1
77.5°	1126.5	1155.1	1032.2	1122.2	1156.2	1619.1	2348.5	1818.7	2306.8	2529.5	1950.3
80°	905.0	943.4	842.4	901.7	920.3	1214.3	1883.4	1489.6	1876.8	2099.5	1593.8
82.5°	618.7	653.8	586.9	630.7	654.9	796.4	1302.0	1072.8	1275.7	1411.7	998.2
85°	357.6	399.3	359.8	354.3	366.4	420.1	700.9	570.4	593.4	624.1	443.2
87.5°	224.9	231.5	211.7	212.8	215.0	230.4	319.2	254.5	280.8	318.1	268.7
90°	178.8	185.4	171.1	172.2	168.9	183.2	239.1	194.2	216.1	249.0	212.8
92.5°	154.7	159.1	149.2	151.4	149.2	160.2	199.6	160.2	177.7	204.0	174.4
95°	131.6	134.9	129.4	130.5	124.0	130.5	155.8	121.8	134.9	153.6	130.5
97.5°	105.3	108.6	105.3	105.3	98.7	102.0	119.6	94.3	103.1	115.2	98.7
100°	83.4	84.5	83.4	82.3	76.8	76.8	83.4	68.0	71.3	79.0	68.0
102.5°	63.6	64.7	63.6	62.5	55.9	52.7	52.7	43.9	46.1	48.3	42.8
105°	50.5	51.6	50.5	48.3	42.8	39.5	38.4	31.8	31.8	32.9	29.6
107.5°	41.7	41.7	41.7	39.5	36.2	31.8	28.5	23.0	23.0	24.1	23.0
110°	34.0	34.0	32.9	31.8	28.5	25.2	21.9	18.6	18.6	18.6	17.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	28.5	28.5	27.4	26.3	23.0	19.7	17.6	15.4	15.4	15.4	14.3
115°	24.1	24.1	23.0	21.9	19.7	16.5	14.3	12.1	12.1	12.1	12.1
117.5°	20.8	20.8	19.7	18.6	16.5	14.3	12.1	9.9	9.9	9.9	9.9
120°	18.6	17.6	16.5	15.4	13.2	12.1	9.9	8.8	8.8	8.8	7.7
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°	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
2.5°	65.8	65.8	64.7	64.7	64.7	63.6	63.6	64.7	64.7	64.7	64.7
5°	70.2	69.1	66.9	64.7	63.6	62.5	61.4	61.4	63.6	63.6	63.6
7.5°	79.0	77.9	74.6	72.4	70.2	68.0	66.9	65.8	66.9	68.0	68.0
10°	87.8	86.7	82.3	79.0	77.9	75.7	74.6	73.5	74.6	74.6	74.6
12.5°	96.5	94.3	91.0	86.7	84.5	83.4	82.3	81.2	81.2	81.2	81.2
15°	104.2	100.9	97.6	94.3	92.1	89.9	88.9	87.8	88.9	89.9	89.9
17.5°	116.3	113.0	105.3	99.8	98.7	96.5	95.4	95.4	96.5	97.6	97.6
20°	129.4	122.9	114.1	108.6	107.5	104.2	103.1	103.1	104.2	105.3	105.3
22.5°	140.4	136.0	122.9	115.2	114.1	113.0	114.1	114.1	115.2	116.3	116.3
25°	178.8	161.2	142.6	137.1	136.0	133.8	131.6	130.5	131.6	134.9	136.0
27.5°	241.3	209.5	174.4	162.3	162.3	164.5	168.9	171.1	166.7	164.5	165.6
30°	283.0	240.2	189.8	178.8	181.0	192.0	201.8	208.4	204.0	200.7	201.8
32.5°	272.0	232.5	196.3	194.2	200.7	209.5	215.0	218.3	227.1	230.4	234.7
35°	247.9	218.3	198.5	207.3	211.7	211.7	211.7	211.7	228.2	243.5	247.9
37.5°	302.8	252.3	235.8	239.1	235.8	232.5	235.8	244.6	258.9	270.9	274.2
40°	355.4	291.8	264.4	262.2	261.1	272.0	291.8	307.1	311.5	300.6	302.8
42.5°	413.5	330.2	295.1	298.4	307.1	324.7	346.6	346.6	346.6	336.8	340.0
45°	468.4	375.1	354.3	363.1	363.1	371.9	383.9	376.2	386.1	390.5	396.0
47.5°	533.1	435.5	389.4	381.7	382.8	400.4	404.8	401.5	408.1	400.4	400.4
50°	552.8	445.4	409.2	438.8	438.8	419.0	402.6	404.8	423.4	444.3	448.6
52.5°	703.1	551.8	518.8	549.6	562.7	528.7	528.7	533.1	537.5	552.8	557.2
55°	1051.9	786.5	687.8	759.1	768.9	789.8	846.8	838.0	787.6	762.4	760.2
57.5°	1573.0	1167.1	856.7	957.6	1021.2	1106.8	1149.6	1124.3	1056.3	1033.3	1008.1
60°	2010.7	1598.2	1110.1	1285.6	1381.0	1395.3	1379.9	1382.1	1330.6	1347.0	1340.4
62.5°	2173.0	1961.3	1427.1	1533.5	1547.8	1503.9	1544.5	1637.7	1554.3	1505.0	1497.3
65°	2221.3	2096.2	1515.9	1446.8	1433.7	1426.0	1586.2	1741.9	1555.4	1440.3	1439.2
67.5°	2173.0	1958.0	1403.0	1288.9	1319.6	1382.1	1590.5	1648.7	1473.2	1345.9	1337.1
70°	2110.5	1735.3	1262.6	1163.8	1235.1	1326.2	1458.9	1435.9	1366.8	1253.8	1248.3
72.5°	1883.4	1503.9	1172.6	1090.3	1171.5	1197.8	1263.7	1253.8	1273.5	1202.2	1198.9
75°	1686.0	1381.0	1118.9	1022.3	1061.8	1057.4	1110.1	1122.2	1178.1	1147.4	1135.3
77.5°	1454.5	1201.1	986.1	874.2	889.6	888.5	913.7	921.4	960.9	963.1	949.9
80°	1138.6	941.2	770.0	658.2	660.3	640.6	643.9	642.8	650.5	659.3	647.2
82.5°	653.8	525.4	436.6	365.3	349.9	323.6	318.1	320.3	317.0	314.8	314.8
85°	320.3	249.0	229.3	205.1	196.3	189.8	193.1	199.6	202.9	196.3	193.1
87.5°	216.1	186.5	177.7	167.8	163.4	156.9	161.2	166.7	171.1	165.6	164.5
90°	171.1	148.1	145.9	143.7	140.4	134.9	139.3	145.9	149.2	144.8	142.6
92.5°	138.2	119.6	119.6	118.5	115.2	110.8	116.3	121.8	125.0	121.8	120.7
95°	106.4	92.1	95.4	93.2	89.9	88.9	92.1	96.5	98.7	96.5	96.5
97.5°	82.3	72.4	75.7	74.6	70.2	69.1	71.3	74.6	76.8	74.6	73.5
100°	55.9	51.6	55.9	55.9	51.6	49.4	51.6	54.8	55.9	55.9	54.8
102.5°	37.3	35.1	40.6	41.7	39.5	37.3	38.4	40.6	41.7	41.7	41.7
105°	26.3	26.3	31.8	32.9	30.7	28.5	30.7	31.8	31.8	31.8	31.8
107.5°	20.8	21.9	25.2	27.4	25.2	23.0	24.1	25.2	25.2	25.2	26.3
110°	17.6	17.6	20.8	23.0	20.8	19.7	19.7	19.7	19.7	20.8	23.0



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 CATALOG NUMBER: GAT-CA6-LED-60-727-U-33-5-6-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	14.3	15.4	17.6	18.6	17.6	16.5	16.5	16.5	16.5	17.6	20.8
115°	12.1	13.2	15.4	15.4	14.3	14.3	14.3	13.2	13.2	14.3	19.7
117.5°	9.9	11.0	12.1	12.1	12.1	11.0	11.0	11.0	11.0	13.2	20.8
120°	8.8	8.8	9.9	9.9	8.8	8.8	8.8	8.8	7.7	11.0	16.5
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)