

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: P588495

Luminaire Tested: **GAT-CA6-LED-70-727-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588495
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-70-727-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: 6561 lumens
Efficiency: N/A
Efficacy: 88.8 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

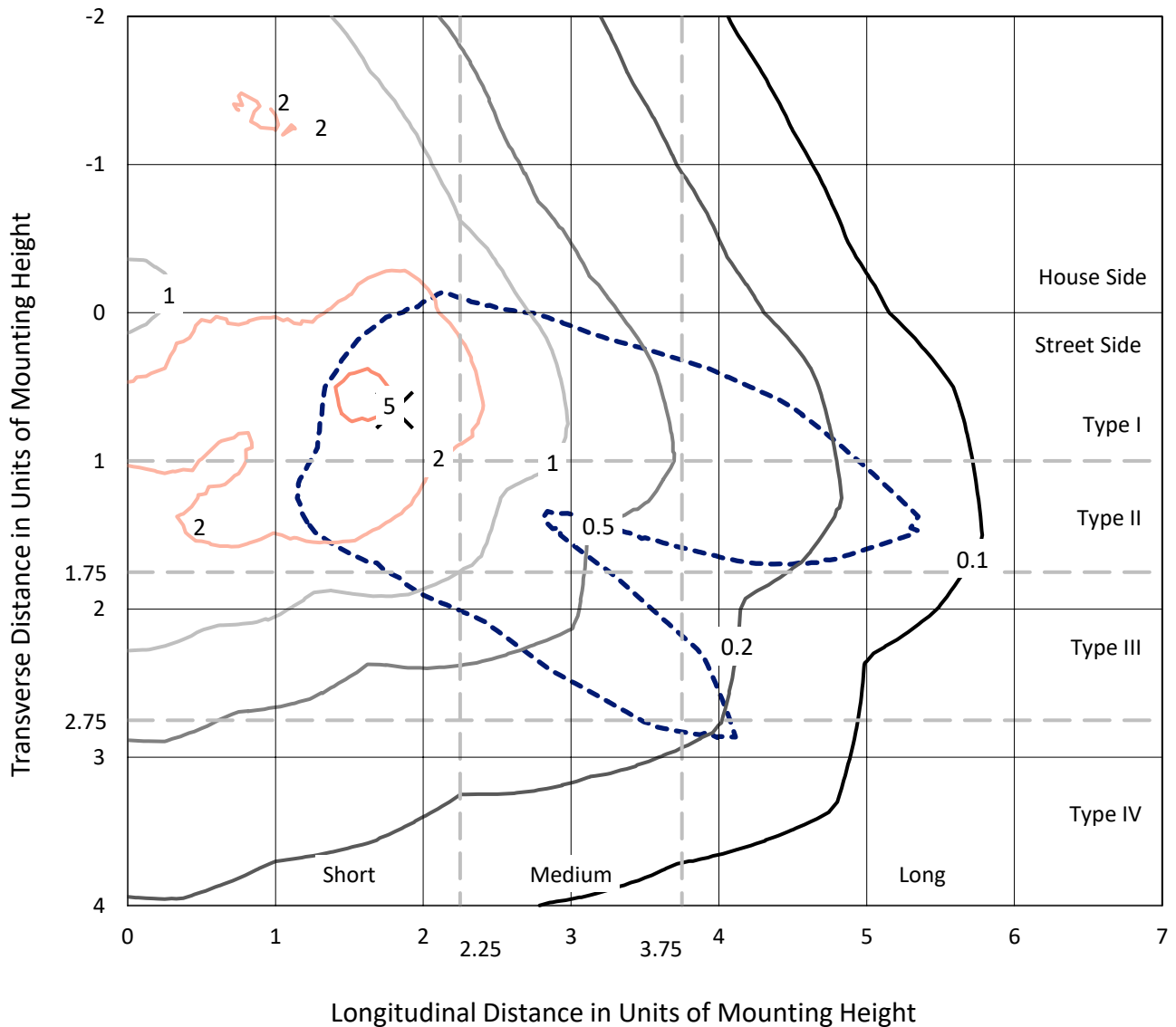
Input Watts (W): 73.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

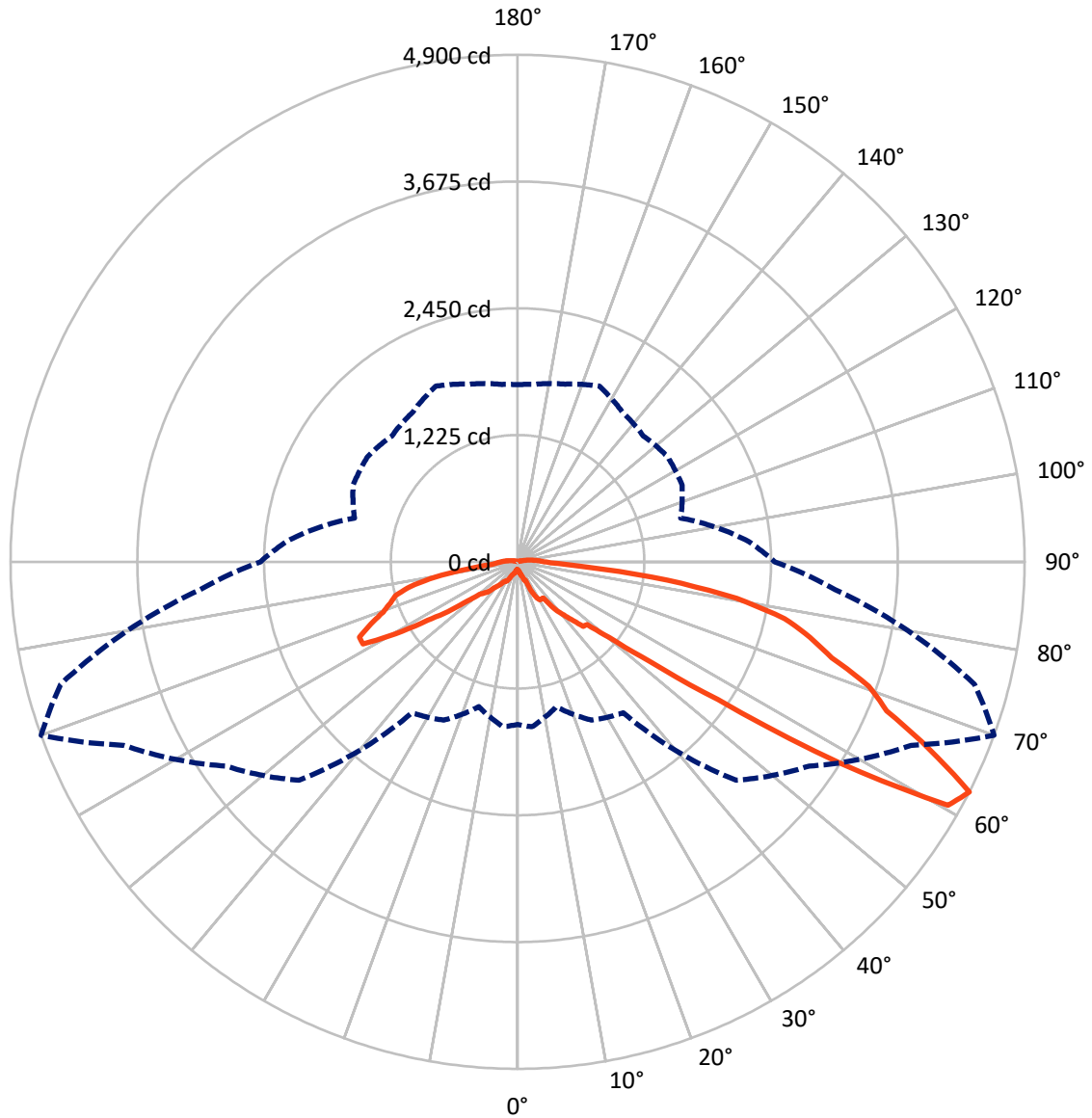
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 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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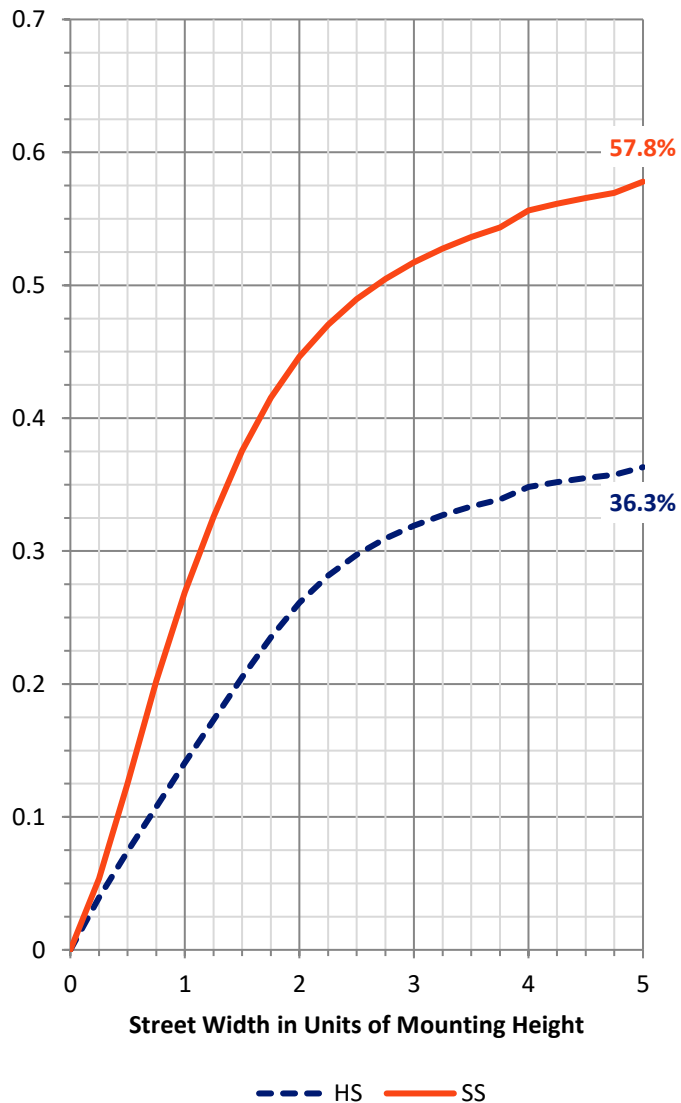
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2431.7	89.1	2520.8
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	3917.7	122.5	4040.2
	% Fixture	59.7	1.9	61.6
Total	Lumens	6349.4	211.6	6561.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	0.1
10°-20°	35.7	0.5
20°-30°	110.7	1.7
30°-40°	237.4	3.6
40°-50°	444.7	6.8
50°-60°	1154.0	17.6
60°-70°	2113.9	32.2
70°-80°	1695.6	25.8
80°-90°	549.0	8.4
90°-100°	144.7	2.2
100°-110°	47.1	0.7
110°-120°	18.5	0.3
120°-130°	1.4	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°	6349.4	96.8
0°-180°	6561.0	100.0

Coefficient of Utilization



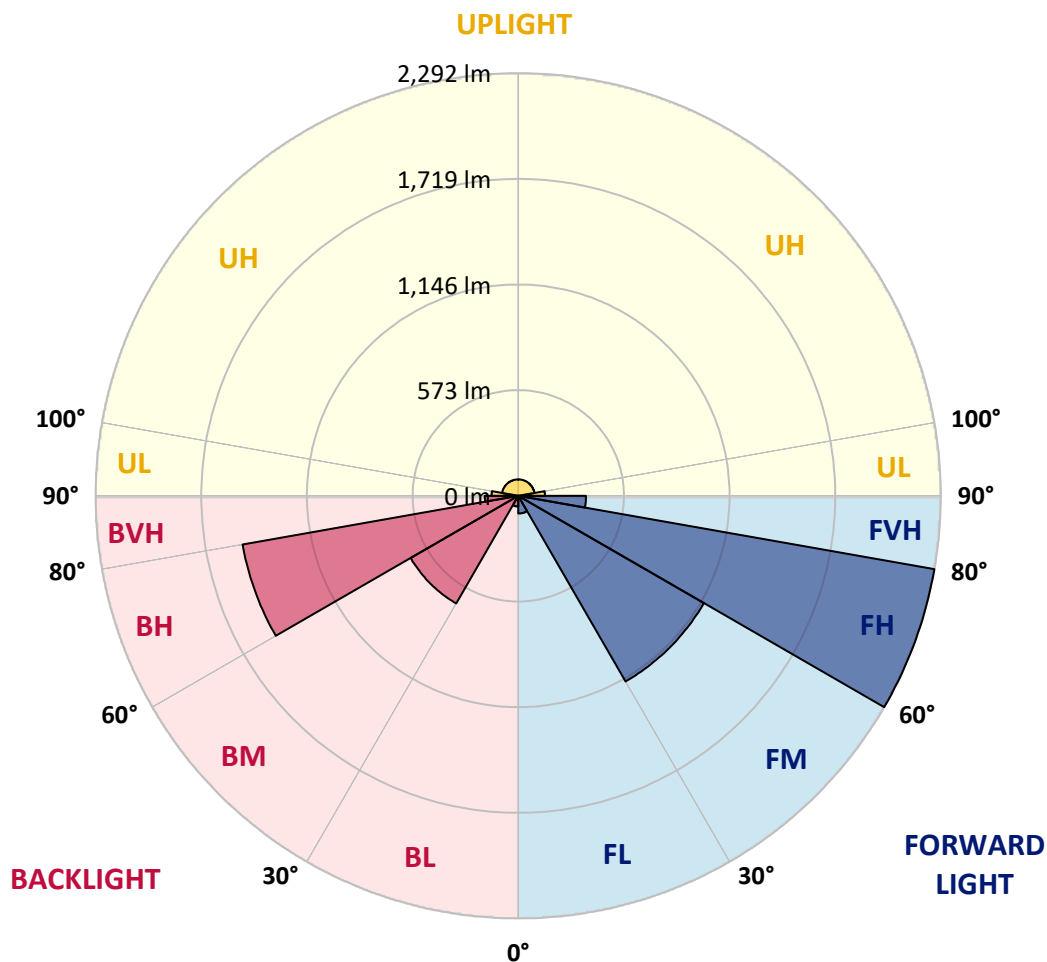
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	96.3	1.5			
FM (30°-60°)	1162.5	17.7			
FH (60°-80°)	2291.6	34.9			G2/5000
FVH (80°-90°)	367.3	5.6			G3/500
BL (0°-30°)	58.4	0.9	B0/110		
BM (30°-60°)	673.6	10.3	B1/1000		
BH (60°-80°)	1518.0	23.1	B3/2500		G3/2500
BVH (80°-90°)	181.7	2.8			G2/225
UL (90°-100°)	144.7	2.2		U3/500	
UH (100°-180°)	89.1	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°	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
2.5°	84.0	84.0	84.0	82.8	81.5	80.3	79.0	79.0	77.8	76.5	75.3
5°	91.6	90.3	89.1	86.5	85.3	85.3	84.0	84.0	84.0	82.8	81.5
7.5°	101.6	101.6	100.3	99.1	97.8	96.6	95.3	94.1	94.1	92.8	91.6
10°	115.4	115.4	115.4	114.1	114.1	112.9	110.4	109.1	106.6	105.4	101.6
12.5°	129.2	130.4	127.9	127.9	127.9	126.7	124.2	122.9	120.4	117.9	112.9
15°	143.0	141.7	140.5	139.2	141.7	141.7	140.5	140.5	135.5	131.7	122.9
17.5°	155.5	155.5	156.8	156.8	160.5	159.3	159.3	158.0	155.5	149.3	138.0
20°	175.6	176.8	176.8	176.8	189.4	194.4	195.7	196.9	193.2	180.6	158.0
22.5°	195.7	196.9	205.7	203.2	203.2	203.2	215.7	209.5	193.2	178.1	165.6
25°	264.6	268.4	270.9	279.7	289.7	317.3	361.2	347.4	322.3	270.9	228.3
27.5°	331.1	336.1	381.3	444.0	452.8	420.2	451.5	410.1	397.6	344.9	309.8
30°	361.2	370.0	447.8	490.4	505.5	462.8	508.0	429.0	425.2	387.6	357.5
32.5°	368.8	375.0	460.3	465.3	469.1	464.1	531.8	435.2	426.4	388.8	344.9
35°	357.5	365.0	422.7	393.8	395.1	484.1	610.8	469.1	429.0	363.7	314.8
37.5°	440.2	440.2	489.2	496.7	529.3	637.2	800.2	619.6	574.4	474.1	413.9
40°	501.7	508.0	585.7	614.6	619.6	711.2	1002.1	726.2	662.2	530.5	484.1
42.5°	584.5	583.2	654.7	674.8	688.6	722.5	1024.7	835.3	760.1	600.8	565.7
45°	598.3	618.3	683.6	661.0	678.6	765.1	1069.9	989.6	889.3	733.7	661.0
47.5°	543.1	570.7	702.4	683.6	613.3	653.5	857.9	1015.9	905.6	753.8	702.4
50°	585.7	600.8	666.0	653.5	559.4	694.9	941.9	1273.1	1150.2	896.8	765.1
52.5°	757.6	790.2	801.5	850.4	805.2	1039.8	1318.2	1613.0	1596.7	1298.2	1009.7
55°	973.3	1021.0	1071.1	1256.8	1283.1	1633.0	1840.0	2154.8	2350.5	2053.2	1549.0
57.5°	1206.6	1274.3	1258.0	1527.7	1569.1	2212.5	2403.2	3140.7	3663.7	3259.8	2268.9
60°	1432.4	1477.5	1386.0	1623.0	1702.0	2785.7	3065.4	4090.1	4778.7	4348.5	2794.5
62.5°	1571.6	1600.4	1449.9	1688.2	1781.0	2985.1	3440.4	4196.7	4900.4	4573.0	3079.2
65°	1570.3	1562.8	1391.0	1597.9	1585.4	2755.6	3325.0	3527.0	4377.3	4322.2	3115.6
67.5°	1508.9	1511.4	1330.8	1495.1	1443.6	2429.5	3080.4	2983.9	3848.1	3922.1	3030.3
70°	1449.9	1480.0	1308.2	1451.2	1427.3	2336.7	2973.8	2685.4	3599.7	3740.2	2940.0
72.5°	1367.1	1396.0	1234.2	1359.6	1368.4	2151.0	2792.0	2344.2	3174.5	3343.8	2635.2
75°	1365.9	1402.3	1250.5	1360.9	1374.7	2045.7	2814.5	2226.3	2919.9	3146.9	2459.6
77.5°	1288.1	1320.7	1180.3	1283.1	1322.0	1851.3	2685.4	2079.6	2637.7	2892.3	2230.1
80°	1034.8	1078.7	963.3	1031.0	1052.3	1388.5	2153.6	1703.3	2146.0	2400.6	1822.4
82.5°	707.4	747.5	671.0	721.2	748.8	910.6	1488.8	1226.7	1458.7	1614.2	1141.4
85°	408.9	456.5	411.4	405.1	418.9	480.4	801.5	652.2	678.6	713.7	506.7
87.5°	257.1	264.6	242.1	243.3	245.8	263.4	365.0	291.0	321.1	363.7	307.3
90°	204.4	212.0	195.7	196.9	193.2	209.5	273.4	222.0	247.1	284.7	243.3
92.5°	176.8	181.9	170.6	173.1	170.6	183.1	228.3	183.1	203.2	233.3	199.4
95°	150.5	154.3	148.0	149.3	141.7	149.3	178.1	139.2	154.3	175.6	149.3
97.5°	120.4	124.2	120.4	120.4	112.9	116.6	136.7	107.9	117.9	131.7	112.9
100°	95.3	96.6	95.3	94.1	87.8	87.8	95.3	77.8	81.5	90.3	77.8
102.5°	72.7	74.0	72.7	71.5	64.0	60.2	60.2	50.2	52.7	55.2	48.9
105°	57.7	58.9	57.7	55.2	48.9	45.2	43.9	36.4	36.4	37.6	33.9
107.5°	47.7	47.7	47.7	45.2	41.4	36.4	32.6	26.3	26.3	27.6	26.3
110°	38.9	38.9	37.6	36.4	32.6	28.8	25.1	21.3	21.3	21.3	20.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	32.6	32.6	31.4	30.1	26.3	22.6	20.1	17.6	17.6	17.6	16.3
115°	27.6	27.6	26.3	25.1	22.6	18.8	16.3	13.8	13.8	13.8	13.8
117.5°	23.8	23.8	22.6	21.3	18.8	16.3	13.8	11.3	11.3	11.3	11.3
120°	21.3	20.1	18.8	17.6	15.1	13.8	11.3	10.0	10.0	10.0	8.8
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°	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
2.5°	75.3	75.3	74.0	74.0	74.0	72.7	72.7	74.0	74.0	74.0	74.0
5°	80.3	79.0	76.5	74.0	72.7	71.5	70.2	70.2	72.7	72.7	72.7
7.5°	90.3	89.1	85.3	82.8	80.3	77.8	76.5	75.3	76.5	77.8	77.8
10°	100.3	99.1	94.1	90.3	89.1	86.5	85.3	84.0	85.3	85.3	85.3
12.5°	110.4	107.9	104.1	99.1	96.6	95.3	94.1	92.8	92.8	92.8	92.8
15°	119.2	115.4	111.6	107.9	105.4	102.8	101.6	100.3	101.6	102.8	102.8
17.5°	133.0	129.2	120.4	114.1	112.9	110.4	109.1	109.1	110.4	111.6	111.6
20°	148.0	140.5	130.4	124.2	122.9	119.2	117.9	117.9	119.2	120.4	120.4
22.5°	160.5	155.5	140.5	131.7	130.4	129.2	130.4	130.4	131.7	133.0	133.0
25°	204.4	184.4	163.1	156.8	155.5	153.0	150.5	149.3	150.5	154.3	155.5
27.5°	275.9	239.6	199.4	185.6	185.6	188.1	193.2	195.7	190.6	188.1	189.4
30°	323.6	274.7	217.0	204.4	207.0	219.5	230.8	238.3	233.3	229.5	230.8
32.5°	311.1	265.9	224.5	222.0	229.5	239.6	245.8	249.6	259.6	263.4	268.4
35°	283.5	249.6	227.0	237.1	242.1	242.1	242.1	242.1	260.9	278.4	283.5
37.5°	346.2	288.5	269.7	273.4	269.7	265.9	269.7	279.7	296.0	309.8	313.6
40°	406.4	333.6	302.3	299.8	298.5	311.1	333.6	351.2	356.2	343.7	346.2
42.5°	472.9	377.5	337.4	341.2	351.2	371.3	396.3	396.3	396.3	385.1	388.8
45°	535.6	429.0	405.1	415.2	415.2	425.2	439.0	430.2	441.5	446.5	452.8
47.5°	609.6	497.9	445.3	436.5	437.7	457.8	462.8	459.1	466.6	457.8	457.8
50°	632.1	509.2	467.8	501.7	501.7	479.1	460.3	462.8	484.1	508.0	513.0
52.5°	804.0	630.9	593.3	628.4	643.4	604.6	604.6	609.6	614.6	632.1	637.2
55°	1202.8	899.3	786.4	867.9	879.2	903.1	968.3	958.3	900.6	871.7	869.2
57.5°	1798.6	1334.5	979.6	1095.0	1167.7	1265.5	1314.5	1285.6	1207.8	1181.5	1152.7
60°	2299.0	1827.4	1269.3	1470.0	1579.1	1595.4	1577.9	1580.4	1521.4	1540.2	1532.7
62.5°	2484.7	2242.6	1631.8	1753.4	1769.8	1719.6	1766.0	1872.6	1777.3	1720.8	1712.1
65°	2539.9	2396.9	1733.4	1654.4	1639.3	1630.5	1813.7	1991.8	1778.5	1646.8	1645.6
67.5°	2484.7	2238.8	1604.2	1473.7	1508.9	1580.4	1818.7	1885.1	1684.5	1539.0	1528.9
70°	2413.2	1984.2	1443.6	1330.8	1412.3	1516.4	1668.2	1641.8	1562.8	1433.6	1427.3
72.5°	2153.6	1719.6	1340.8	1246.7	1339.5	1369.6	1444.9	1433.6	1456.2	1374.7	1370.9
75°	1927.8	1579.1	1279.3	1169.0	1214.1	1209.1	1269.3	1283.1	1347.1	1312.0	1298.2
77.5°	1663.1	1373.4	1127.6	999.6	1017.2	1015.9	1044.8	1053.6	1098.7	1101.2	1086.2
80°	1301.9	1076.2	880.5	752.6	755.1	732.5	736.2	735.0	743.8	753.8	740.0
82.5°	747.5	600.8	499.2	417.7	400.1	370.0	363.7	366.2	362.5	360.0	360.0
85°	366.2	284.7	262.1	234.5	224.5	217.0	220.7	228.3	232.0	224.5	220.7
87.5°	247.1	213.2	203.2	191.9	186.9	179.4	184.4	190.6	195.7	189.4	188.1
90°	195.7	169.3	166.8	164.3	160.5	154.3	159.3	166.8	170.6	165.6	163.1
92.5°	158.0	136.7	136.7	135.5	131.7	126.7	133.0	139.2	143.0	139.2	138.0
95°	121.7	105.4	109.1	106.6	102.8	101.6	105.4	110.4	112.9	110.4	110.4
97.5°	94.1	82.8	86.5	85.3	80.3	79.0	81.5	85.3	87.8	85.3	84.0
100°	64.0	58.9	64.0	64.0	58.9	56.4	58.9	62.7	64.0	64.0	62.7
102.5°	42.6	40.1	46.4	47.7	45.2	42.6	43.9	46.4	47.7	47.7	47.7
105°	30.1	30.1	36.4	37.6	35.1	32.6	35.1	36.4	36.4	36.4	36.4
107.5°	23.8	25.1	28.8	31.4	28.8	26.3	27.6	28.8	28.8	28.8	30.1
110°	20.1	20.1	23.8	26.3	23.8	22.6	22.6	22.6	22.6	23.8	26.3



REPORT NUMBER: P588495
 CATALOG NUMBER: GAT-CA6-LED-70-727-U-33-5-6-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	16.3	17.6	20.1	21.3	20.1	18.8	18.8	18.8	18.8	20.1	23.8
115°	13.8	15.1	17.6	17.6	16.3	16.3	16.3	15.1	15.1	16.3	22.6
117.5°	11.3	12.5	13.8	13.8	13.8	12.5	12.5	12.5	12.5	15.1	23.8
120°	10.0	10.0	11.3	11.3	10.0	10.0	10.0	10.0	8.8	12.5	18.8
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)