

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: P588511

Luminaire Tested: **GAT-CA6-LED-70-760-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588511
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-70-760-U-33-5-6-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6995 lumens
Efficiency: N/A
Efficacy: 94.7 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

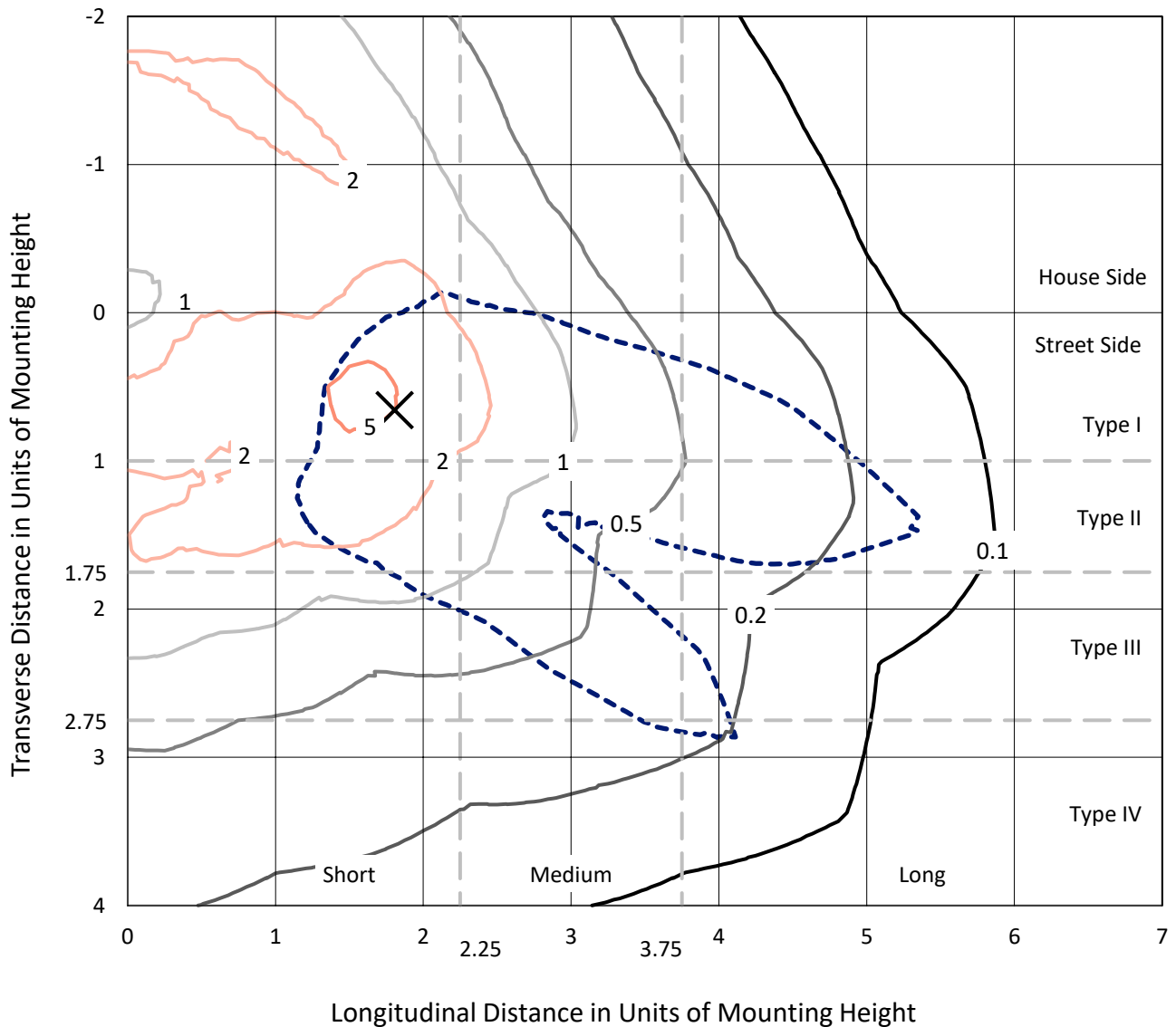
Input Watts (W): 73.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

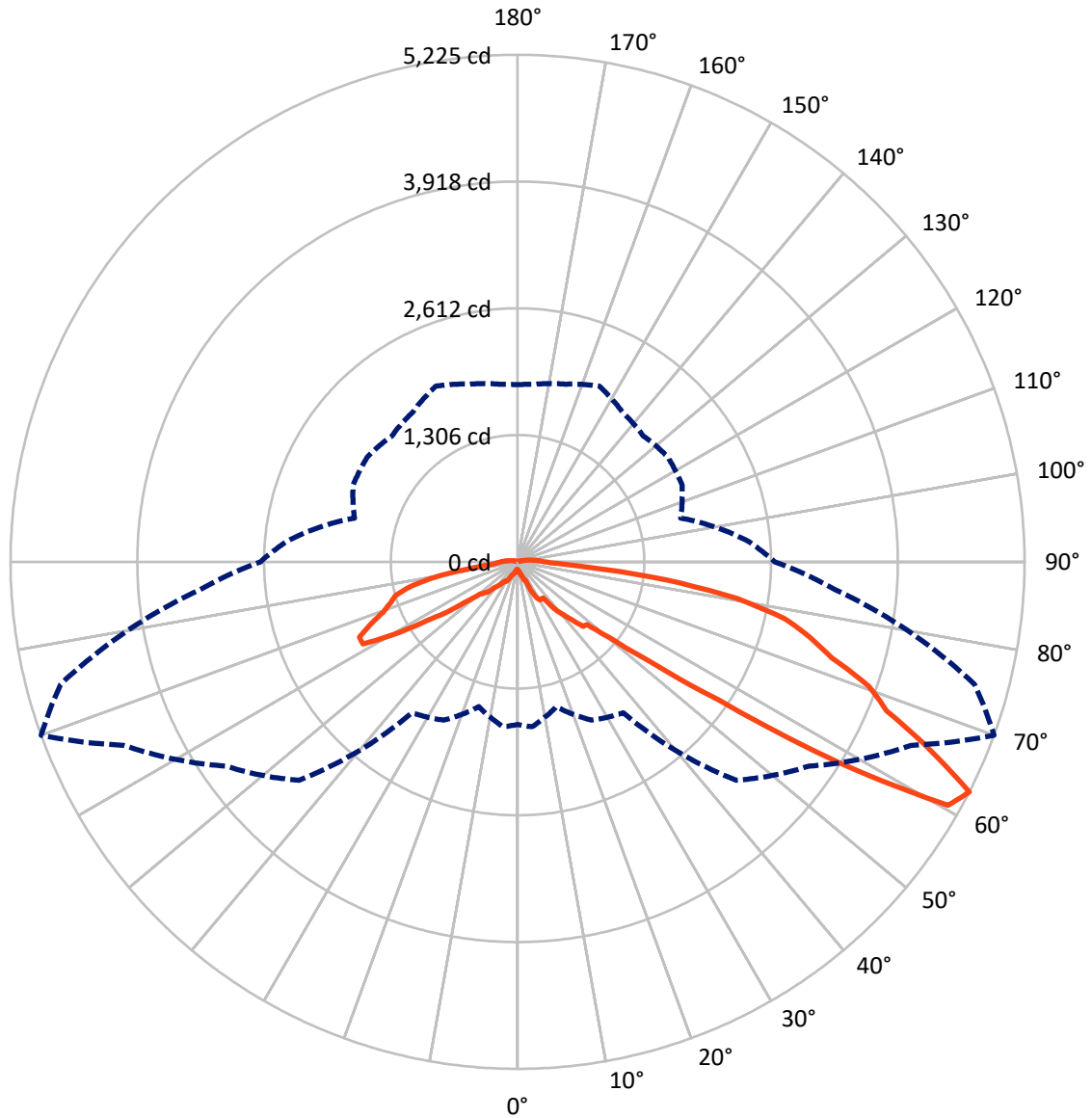
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 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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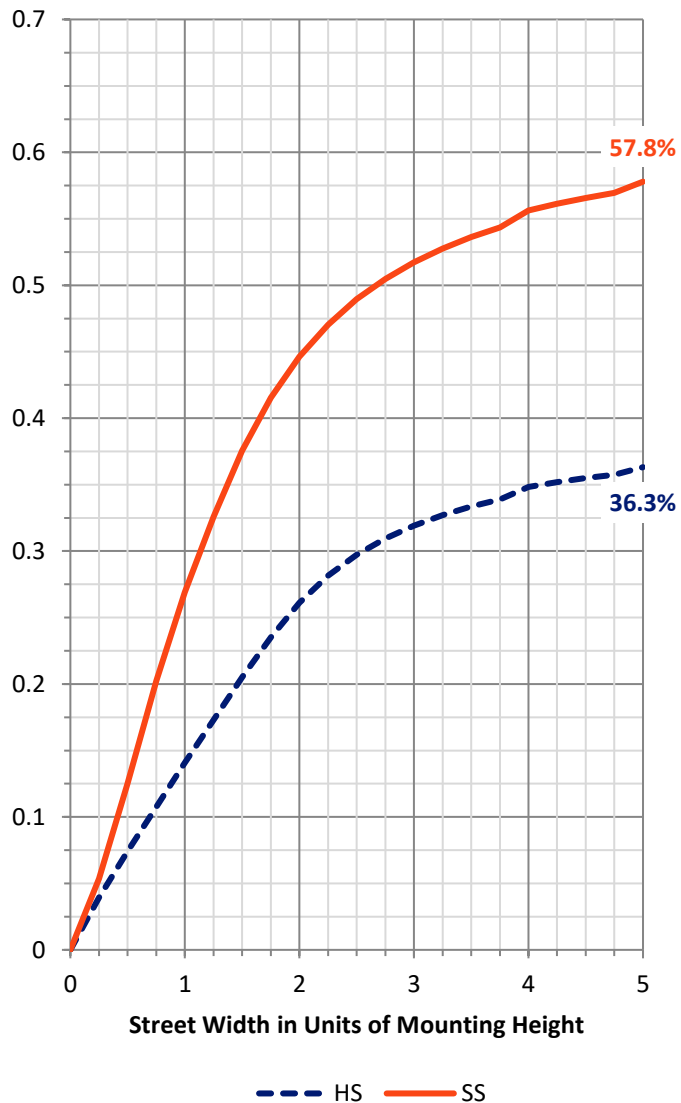
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2592.5	95.0	2687.5
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	4176.8	130.6	4307.4
	% Fixture	59.7	1.9	61.6
Total	Lumens	6769.4	225.6	6995.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	0.1
10°-20°	38.1	0.5
20°-30°	118.0	1.7
30°-40°	253.1	3.6
40°-50°	474.1	6.8
50°-60°	1230.3	17.6
60°-70°	2253.8	32.2
70°-80°	1807.8	25.8
80°-90°	585.4	8.4
90°-100°	154.2	2.2
100°-110°	50.2	0.7
110°-120°	19.7	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°	6769.4	96.8
0°-180°	6995.0	100.0

Coefficient of Utilization



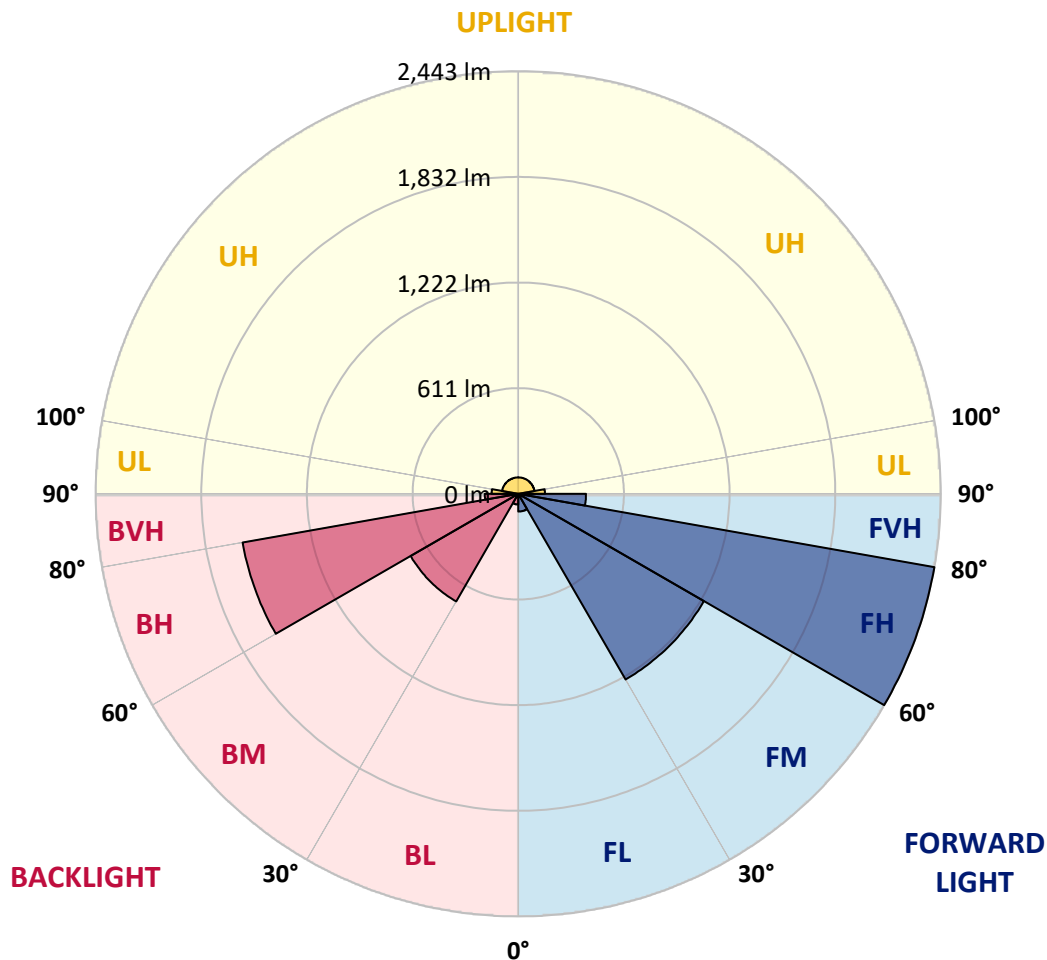
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	102.6	1.5			
FM (30°-60°)	1239.4	17.7			
FH (60°-80°)	2443.2	34.9			G2/5000
FVH (80°-90°)	391.6	5.6			G3/500
BL (0°-30°)	62.3	0.9	B0/110		
BM (30°-60°)	718.1	10.3	B1/1000		
BH (60°-80°)	1618.4	23.1	B3/2500		G3/2500
BVH (80°-90°)	193.8	2.8			G2/225
UL (90°-100°)	154.2	2.2		U3/500	
UH (100°-180°)	95.0	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°	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
2.5°	89.6	89.6	89.6	88.3	86.9	85.6	84.2	84.2	82.9	81.6	80.2
5°	97.6	96.3	94.9	92.3	90.9	90.9	89.6	89.6	89.6	88.3	86.9
7.5°	108.3	108.3	107.0	105.6	104.3	103.0	101.6	100.3	100.3	99.0	97.6
10°	123.0	123.0	123.0	121.7	121.7	120.3	117.7	116.3	113.7	112.3	108.3
12.5°	137.7	139.1	136.4	136.4	136.4	135.1	132.4	131.0	128.4	125.7	120.3
15°	152.4	151.1	149.8	148.4	151.1	151.1	149.8	149.8	144.4	140.4	131.0
17.5°	165.8	165.8	167.2	167.2	171.2	169.8	169.8	168.5	165.8	159.1	147.1
20°	187.2	188.5	188.5	188.5	201.9	207.3	208.6	209.9	205.9	192.6	168.5
22.5°	208.6	209.9	219.3	216.6	216.6	216.6	230.0	223.3	205.9	189.9	176.5
25°	282.2	286.2	288.8	298.2	308.9	338.3	385.1	370.4	343.7	288.8	243.4
27.5°	353.0	358.4	406.5	473.4	482.7	448.0	481.4	437.3	423.9	367.7	330.3
30°	385.1	394.5	477.4	522.9	538.9	493.4	541.6	457.3	453.3	413.2	381.1
32.5°	393.1	399.8	490.8	496.1	500.1	494.8	567.0	464.0	454.7	414.5	367.7
35°	381.1	389.1	450.6	419.9	421.2	516.2	651.2	500.1	457.3	387.8	335.6
37.5°	469.4	469.4	521.5	529.5	564.3	679.3	853.1	660.6	612.4	505.5	441.3
40°	534.9	541.6	624.5	655.2	660.6	758.2	1068.4	774.3	706.1	565.6	516.2
42.5°	623.1	621.8	698.0	719.4	734.1	770.2	1092.5	890.6	810.4	640.5	603.1
45°	637.9	659.3	728.8	704.7	723.4	815.7	1140.7	1055.1	948.1	782.3	704.7
47.5°	579.0	608.4	748.8	728.8	653.9	696.7	914.7	1083.1	965.5	803.7	748.8
50°	624.5	640.5	710.1	696.7	596.4	740.8	1004.3	1357.3	1226.2	956.1	815.7
52.5°	807.7	842.4	854.5	906.6	858.5	1108.6	1405.4	1719.7	1702.3	1384.0	1076.5
55°	1037.7	1088.5	1142.0	1339.9	1368.0	1741.1	1961.7	2297.3	2506.0	2189.0	1651.5
57.5°	1286.4	1358.6	1341.2	1628.7	1672.9	2358.9	2562.1	3348.4	3906.0	3475.4	2419.0
60°	1527.1	1575.2	1477.6	1730.4	1814.6	2970.0	3268.2	4360.7	5094.8	4636.1	2979.3
62.5°	1675.5	1706.3	1545.8	1799.9	1898.9	3182.6	3668.0	4474.3	5224.5	4875.5	3282.9
65°	1674.2	1666.2	1483.0	1703.6	1690.2	2937.9	3545.0	3760.3	4666.9	4608.1	3321.7
67.5°	1608.7	1611.4	1418.8	1594.0	1539.1	2590.2	3284.2	3181.3	4102.6	4181.5	3230.7
70°	1545.8	1577.9	1394.7	1547.2	1521.8	2491.2	3170.6	2863.0	3837.8	3987.6	3134.4
72.5°	1457.6	1488.3	1315.8	1449.5	1458.9	2293.3	2976.7	2499.3	3384.5	3565.0	2809.5
75°	1456.2	1495.0	1333.2	1450.9	1465.6	2181.0	3000.7	2373.6	3113.1	3355.1	2622.3
77.5°	1373.3	1408.1	1258.3	1368.0	1409.4	1973.7	2863.0	2217.1	2812.2	3083.6	2377.6
80°	1103.2	1150.0	1027.0	1099.2	1121.9	1480.3	2296.0	1815.9	2288.0	2559.4	1943.0
82.5°	754.2	797.0	715.4	768.9	798.3	970.8	1587.3	1307.8	1555.2	1721.0	1216.9
85°	435.9	486.7	438.6	431.9	446.6	512.2	854.5	695.4	723.4	760.9	540.2
87.5°	274.1	282.2	258.1	259.4	262.1	280.8	389.1	310.2	342.3	387.8	327.6
90°	218.0	226.0	208.6	209.9	205.9	223.3	291.5	236.7	263.4	303.5	259.4
92.5°	188.5	193.9	181.9	184.5	181.9	195.2	243.4	195.2	216.6	248.7	212.6
95°	160.5	164.5	157.8	159.1	151.1	159.1	189.9	148.4	164.5	187.2	159.1
97.5°	128.4	132.4	128.4	128.4	120.3	124.4	145.8	115.0	125.7	140.4	120.3
100°	101.6	103.0	101.6	100.3	93.6	93.6	101.6	82.9	86.9	96.3	82.9
102.5°	77.6	78.9	77.6	76.2	68.2	64.2	64.2	53.5	56.2	58.8	52.2
105°	61.5	62.8	61.5	58.8	52.2	48.1	46.8	38.8	38.8	40.1	36.1
107.5°	50.8	50.8	50.8	48.1	44.1	38.8	34.8	28.1	28.1	29.4	28.1
110°	41.5	41.5	40.1	38.8	34.8	30.8	26.7	22.7	22.7	22.7	21.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	34.8	34.8	33.4	32.1	28.1	24.1	21.4	18.7	18.7	18.7	17.4
115°	29.4	29.4	28.1	26.7	24.1	20.1	17.4	14.7	14.7	14.7	14.7
117.5°	25.4	25.4	24.1	22.7	20.1	17.4	14.7	12.0	12.0	12.0	12.0
120°	22.7	21.4	20.1	18.7	16.0	14.7	12.0	10.7	10.7	10.7	9.4
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°	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
2.5°	80.2	80.2	78.9	78.9	78.9	77.6	77.6	78.9	78.9	78.9	78.9
5°	85.6	84.2	81.6	78.9	77.6	76.2	74.9	74.9	77.6	77.6	77.6
7.5°	96.3	94.9	90.9	88.3	85.6	82.9	81.6	80.2	81.6	82.9	82.9
10°	107.0	105.6	100.3	96.3	94.9	92.3	90.9	89.6	90.9	90.9	90.9
12.5°	117.7	115.0	111.0	105.6	103.0	101.6	100.3	99.0	99.0	99.0	99.0
15°	127.0	123.0	119.0	115.0	112.3	109.7	108.3	107.0	108.3	109.7	109.7
17.5°	141.7	137.7	128.4	121.7	120.3	117.7	116.3	116.3	117.7	119.0	119.0
20°	157.8	149.8	139.1	132.4	131.0	127.0	125.7	125.7	127.0	128.4	128.4
22.5°	171.2	165.8	149.8	140.4	139.1	137.7	139.1	139.1	140.4	141.7	141.7
25°	218.0	196.6	173.8	167.2	165.8	163.1	160.5	159.1	160.5	164.5	165.8
27.5°	294.2	255.4	212.6	197.9	197.9	200.6	205.9	208.6	203.3	200.6	201.9
30°	345.0	292.9	231.3	218.0	220.6	234.0	246.0	254.1	248.7	244.7	246.0
32.5°	331.6	283.5	239.4	236.7	244.7	255.4	262.1	266.1	276.8	280.8	286.2
35°	302.2	266.1	242.0	252.7	258.1	258.1	258.1	258.1	278.1	296.9	302.2
37.5°	369.1	307.6	287.5	291.5	287.5	283.5	287.5	298.2	315.6	330.3	334.3
40°	433.3	355.7	322.3	319.6	318.3	331.6	355.7	374.4	379.8	366.4	369.1
42.5°	504.1	402.5	359.7	363.7	374.4	395.8	422.6	422.6	422.6	410.5	414.5
45°	571.0	457.3	431.9	442.6	442.6	453.3	468.0	458.7	470.7	476.1	482.7
47.5°	649.9	530.9	474.7	465.4	466.7	488.1	493.4	489.4	497.4	488.1	488.1
50°	674.0	542.9	498.8	534.9	534.9	510.8	490.8	493.4	516.2	541.6	546.9
52.5°	857.2	672.6	632.5	669.9	686.0	644.5	644.5	649.9	655.2	674.0	679.3
55°	1282.4	958.8	838.4	925.4	937.4	962.8	1032.3	1021.6	960.1	929.4	926.7
57.5°	1917.6	1422.8	1044.4	1167.4	1245.0	1349.3	1401.4	1370.7	1287.7	1259.7	1228.9
60°	2451.1	1948.3	1353.3	1567.2	1683.6	1700.9	1682.2	1684.9	1622.0	1642.1	1634.1
62.5°	2649.0	2391.0	1739.7	1869.4	1886.8	1833.3	1882.8	1996.5	1894.8	1834.7	1825.3
65°	2707.9	2555.4	1848.0	1763.8	1747.7	1738.4	1933.6	2123.5	1896.2	1755.8	1754.4
67.5°	2649.0	2386.9	1710.3	1571.2	1608.7	1684.9	1939.0	2009.8	1795.9	1640.8	1630.1
70°	2572.8	2115.5	1539.1	1418.8	1505.7	1616.7	1778.5	1750.4	1666.2	1528.4	1521.8
72.5°	2296.0	1833.3	1429.5	1329.2	1428.2	1460.2	1540.5	1528.4	1552.5	1465.6	1461.6
75°	2055.3	1683.6	1364.0	1246.3	1294.4	1289.1	1353.3	1368.0	1436.2	1398.7	1384.0
77.5°	1773.2	1464.3	1202.2	1065.8	1084.5	1083.1	1113.9	1123.3	1171.4	1174.1	1158.0
80°	1388.0	1147.3	938.7	802.3	805.0	780.9	784.9	783.6	793.0	803.7	789.0
82.5°	797.0	640.5	532.2	445.3	426.6	394.5	387.8	390.5	386.5	383.8	383.8
85°	390.5	303.5	279.5	250.1	239.4	231.3	235.4	243.4	247.4	239.4	235.4
87.5°	263.4	227.3	216.6	204.6	199.2	191.2	196.6	203.3	208.6	201.9	200.6
90°	208.6	180.5	177.9	175.2	171.2	164.5	169.8	177.9	181.9	176.5	173.8
92.5°	168.5	145.8	145.8	144.4	140.4	135.1	141.7	148.4	152.4	148.4	147.1
95°	129.7	112.3	116.3	113.7	109.7	108.3	112.3	117.7	120.3	117.7	117.7
97.5°	100.3	88.3	92.3	90.9	85.6	84.2	86.9	90.9	93.6	90.9	89.6
100°	68.2	62.8	68.2	68.2	62.8	60.2	62.8	66.9	68.2	68.2	66.9
102.5°	45.5	42.8	49.5	50.8	48.1	45.5	46.8	49.5	50.8	50.8	50.8
105°	32.1	32.1	38.8	40.1	37.4	34.8	37.4	38.8	38.8	38.8	38.8
107.5°	25.4	26.7	30.8	33.4	30.8	28.1	29.4	30.8	30.8	30.8	32.1
110°	21.4	21.4	25.4	28.1	25.4	24.1	24.1	24.1	24.1	25.4	28.1



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 CATALOG NUMBER: GAT-CA6-LED-70-760-U-33-5-6-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	17.4	18.7	21.4	22.7	21.4	20.1	20.1	20.1	20.1	21.4	25.4
115°	14.7	16.0	18.7	18.7	17.4	17.4	17.4	16.0	16.0	17.4	24.1
117.5°	12.0	13.4	14.7	14.7	14.7	13.4	13.4	13.4	13.4	16.0	25.4
120°	10.7	10.7	12.0	12.0	10.7	10.7	10.7	10.7	9.4	13.4	20.1
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)