

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: P588499

Luminaire Tested: **GAT-CA6-LED-70-730-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588499
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-70-730-U-33-5-6-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6856 lumens
Efficiency: N/A
Efficacy: 92.8 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

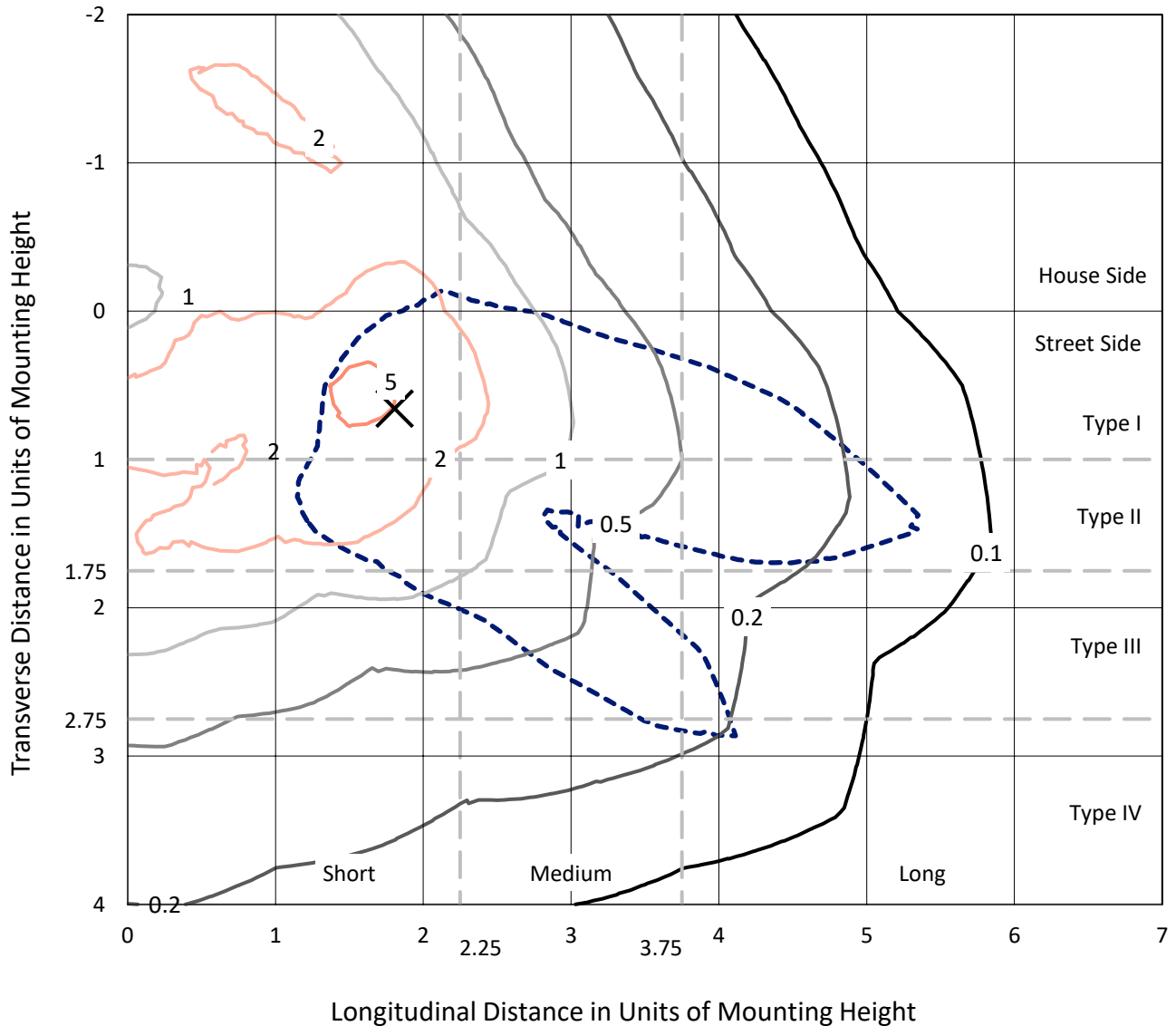
Input Watts (W): 73.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P588499
 CATALOG NUMBER: GAT-CA6-LED-70-730-U-33-5-6-X

Iso-Footcandle Lines of Horizontal Illumination

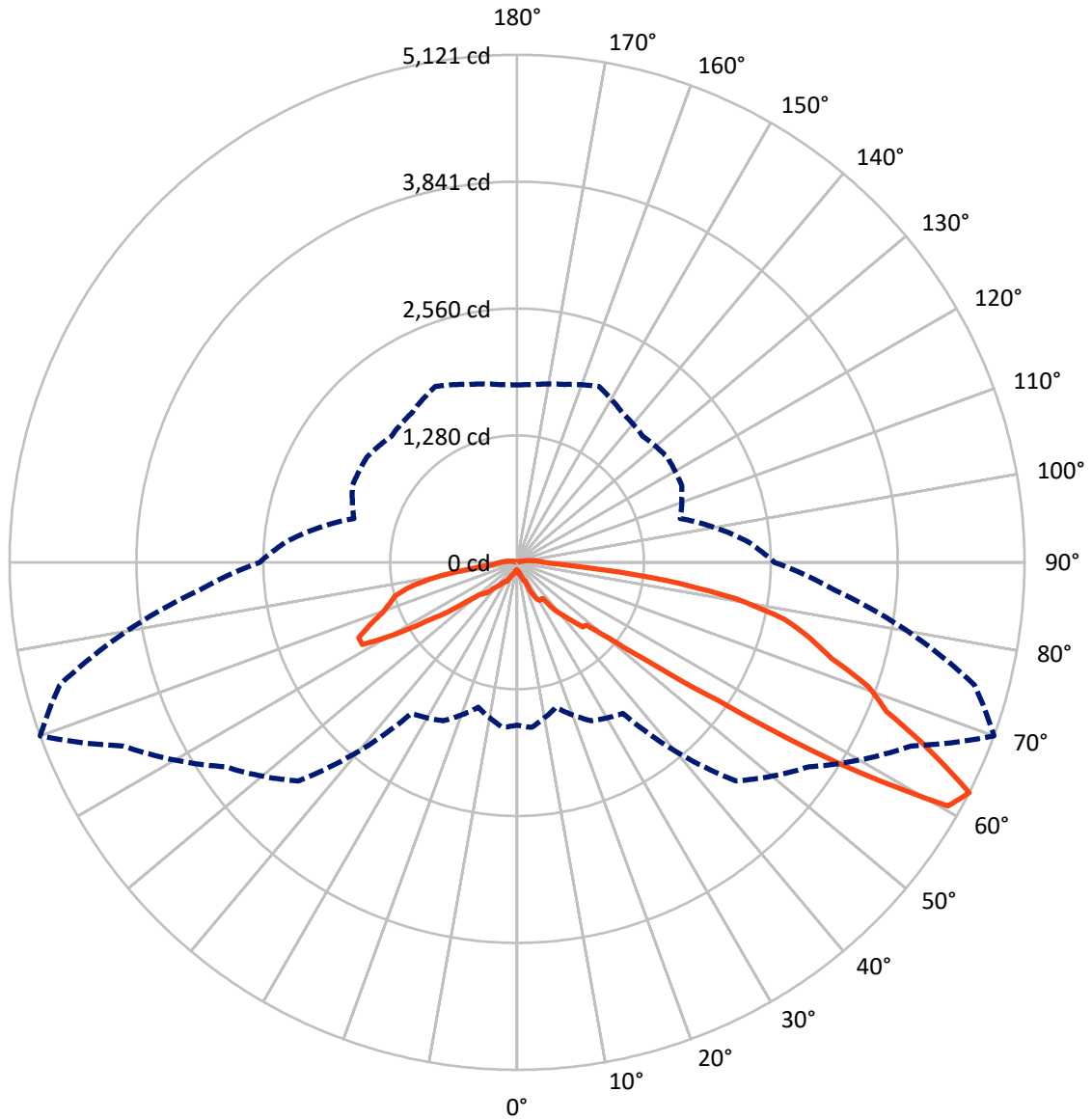
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P588499
CATALOG NUMBER: GAT-CA6-LED-70-730-U-33-5-6-X

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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 CATALOG NUMBER: GAT-CA6-LED-70-730-U-33-5-6-X

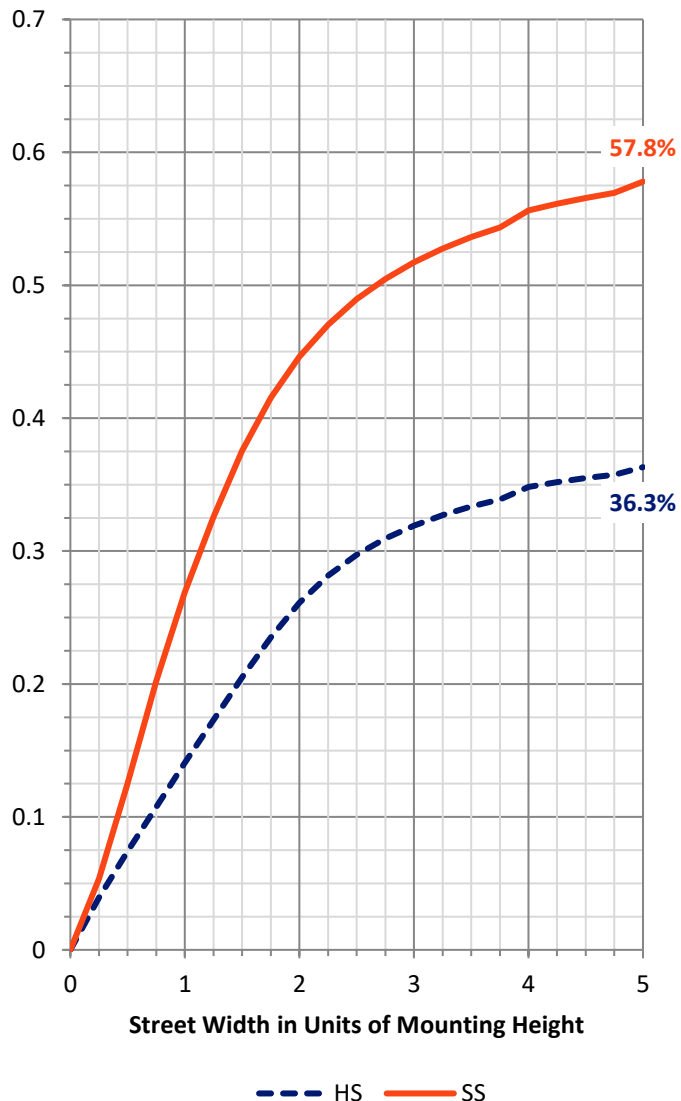
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2541.0	93.1	2634.1
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	4093.9	128.0	4221.9
	% Fixture	59.7	1.9	61.6
Total	Lumens	6634.9	221.1	6856.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.1
10°-20°	37.3	0.5
20°-30°	115.6	1.7
30°-40°	248.0	3.6
40°-50°	464.7	6.8
50°-60°	1205.9	17.6
60°-70°	2209.0	32.2
70°-80°	1771.8	25.8
80°-90°	573.7	8.4
90°-100°	151.2	2.2
100°-110°	49.2	0.7
110°-120°	19.3	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°	6634.9	96.8
0°-180°	6856.0	100.0

Coefficient of Utilization



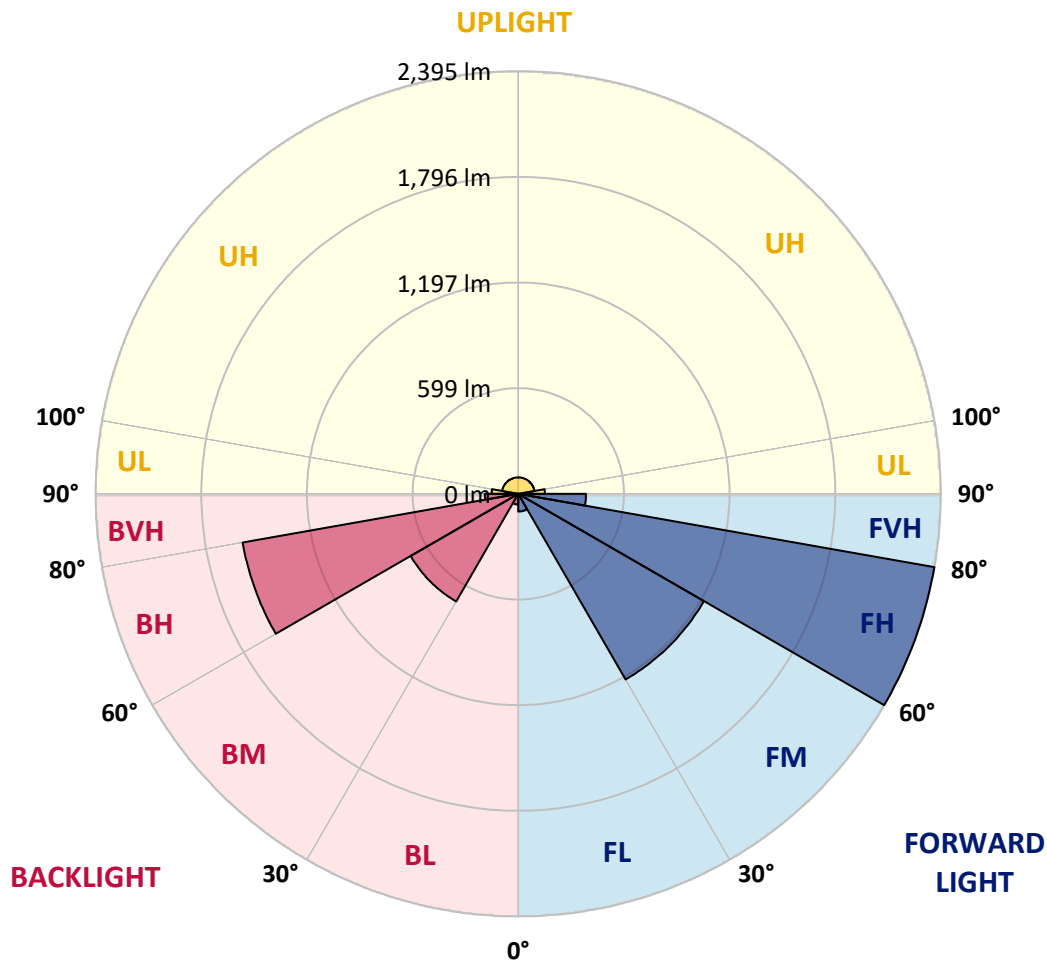
REPORT NUMBER: P588499
 CATALOG NUMBER: GAT-CA6-LED-70-730-U-33-5-6-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	100.6	1.5			
FM (30°-60°)	1214.8	17.7			
FH (60°-80°)	2394.6	34.9			G2/5000
FVH (80°-90°)	383.8	5.6			G3/500
BL (0°-30°)	61.0	0.9	B0/110		
BM (30°-60°)	703.9	10.3	B1/1000		
BH (60°-80°)	1586.2	23.1	B3/2500		G3/2500
BVH (80°-90°)	189.9	2.8			G2/225
UL (90°-100°)	151.2	2.2		U3/500	
UH (100°-180°)	93.1	1.4		U3/500	

BUG Rating: B3-U3-G3

Type III Short





REPORT NUMBER: P588499
 CATALOG NUMBER: GAT-CA6-LED-70-730-U-33-5-6-X

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
2.5°	87.8	87.8	87.8	86.5	85.2	83.9	82.6	82.6	81.3	79.9	78.6
5°	95.7	94.4	93.1	90.4	89.1	89.1	87.8	87.8	87.8	86.5	85.2
7.5°	106.2	106.2	104.9	103.5	102.2	100.9	99.6	98.3	98.3	97.0	95.7
10°	120.6	120.6	120.6	119.3	119.3	118.0	115.3	114.0	111.4	110.1	106.2
12.5°	135.0	136.3	133.7	133.7	133.7	132.4	129.8	128.4	125.8	123.2	118.0
15°	149.4	148.1	146.8	145.5	148.1	148.1	146.8	146.8	141.6	137.6	128.4
17.5°	162.5	162.5	163.8	163.8	167.8	166.5	166.5	165.1	162.5	156.0	144.2
20°	183.5	184.8	184.8	184.8	197.9	203.2	204.5	205.8	201.8	188.7	165.1
22.5°	204.5	205.8	214.9	212.3	212.3	212.3	225.4	218.9	201.8	186.1	173.0
25°	276.5	280.5	283.1	292.3	302.8	331.6	377.5	363.0	336.8	283.1	238.5
27.5°	346.0	351.3	398.4	464.0	473.1	439.1	471.8	428.6	415.5	360.4	323.7
30°	377.5	386.6	467.9	512.5	528.2	483.6	530.8	448.2	444.3	405.0	373.5
32.5°	385.3	391.9	481.0	486.3	490.2	484.9	555.7	454.8	445.6	406.3	360.4
35°	373.5	381.4	441.7	411.5	412.9	505.9	638.3	490.2	448.2	380.1	329.0
37.5°	460.0	460.0	511.2	519.0	553.1	665.8	836.2	647.5	600.3	495.4	432.5
40°	524.3	530.8	612.1	642.2	647.5	743.1	1047.2	758.9	692.0	554.4	505.9
42.5°	610.8	609.5	684.2	705.1	719.5	754.9	1070.8	872.9	794.3	627.8	591.1
45°	625.2	646.2	714.3	690.7	709.1	799.5	1118.0	1034.1	929.3	766.7	690.7
47.5°	567.5	596.3	734.0	714.3	640.9	682.8	896.5	1061.6	946.3	787.7	734.0
50°	612.1	627.8	696.0	682.8	584.5	726.1	984.3	1330.3	1201.9	937.1	799.5
52.5°	791.6	825.7	837.5	888.6	841.4	1086.5	1377.5	1685.5	1668.5	1356.5	1055.1
55°	1017.1	1066.9	1119.3	1313.3	1340.8	1706.5	1922.7	2251.7	2456.2	2145.5	1618.7
57.5°	1260.8	1331.6	1314.6	1596.4	1639.6	2312.0	2511.2	3281.9	3828.4	3406.4	2371.0
60°	1496.8	1543.9	1448.3	1696.0	1778.6	2911.0	3203.2	4274.0	4993.6	4544.0	2920.1
62.5°	1642.2	1672.4	1515.1	1764.1	1861.1	3119.3	3595.1	4385.4	5120.7	4778.6	3217.6
65°	1640.9	1633.1	1453.5	1669.8	1656.7	2879.5	3474.5	3685.5	4574.2	4516.5	3255.7
67.5°	1576.7	1579.3	1390.6	1562.3	1508.6	2538.7	3219.0	3118.0	4021.1	4098.4	3166.5
70°	1515.1	1546.6	1367.0	1516.4	1491.5	2441.7	3107.5	2806.1	3761.6	3908.4	3072.2
72.5°	1428.6	1458.8	1289.7	1420.7	1429.9	2247.8	2917.5	2449.6	3317.3	3494.2	2753.7
75°	1427.3	1465.3	1306.7	1422.1	1436.5	2137.7	2941.1	2326.4	3051.2	3288.4	2570.2
77.5°	1346.0	1380.1	1233.3	1340.8	1381.4	1934.5	2806.1	2173.1	2756.3	3022.4	2330.3
80°	1081.3	1127.2	1006.6	1077.4	1099.6	1450.9	2250.4	1779.9	2242.5	2508.6	1904.4
82.5°	739.2	781.1	701.2	753.6	782.5	951.5	1555.7	1281.8	1524.3	1686.8	1192.7
85°	427.3	477.1	429.9	423.3	437.8	502.0	837.5	681.5	709.1	745.8	529.5
87.5°	268.7	276.5	253.0	254.3	256.9	275.2	381.4	304.1	335.5	380.1	321.1
90°	213.6	221.5	204.5	205.8	201.8	218.9	285.7	232.0	258.2	297.5	254.3
92.5°	184.8	190.0	178.2	180.9	178.2	191.4	238.5	191.4	212.3	243.8	208.4
95°	157.3	161.2	154.7	156.0	148.1	156.0	186.1	145.5	161.2	183.5	156.0
97.5°	125.8	129.8	125.8	125.8	118.0	121.9	142.9	112.7	123.2	137.6	118.0
100°	99.6	100.9	99.6	98.3	91.7	91.7	99.6	81.3	85.2	94.4	81.3
102.5°	76.0	77.3	76.0	74.7	66.8	62.9	62.9	52.4	55.0	57.7	51.1
105°	60.3	61.6	60.3	57.7	51.1	47.2	45.9	38.0	38.0	39.3	35.4
107.5°	49.8	49.8	49.8	47.2	43.3	38.0	34.1	27.5	27.5	28.8	27.5
110°	40.6	40.6	39.3	38.0	34.1	30.1	26.2	22.3	22.3	22.3	21.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	34.1	34.1	32.8	31.5	27.5	23.6	21.0	18.3	18.3	18.3	17.0
115°	28.8	28.8	27.5	26.2	23.6	19.7	17.0	14.4	14.4	14.4	14.4
117.5°	24.9	24.9	23.6	22.3	19.7	17.0	14.4	11.8	11.8	11.8	11.8
120°	22.3	21.0	19.7	18.3	15.7	14.4	11.8	10.5	10.5	10.5	9.2
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



REPORT NUMBER: P588499
 CATALOG NUMBER: GAT-CA6-LED-70-730-U-33-5-6-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
2.5°	78.6	78.6	77.3	77.3	77.3	76.0	76.0	77.3	77.3	77.3	77.3
5°	83.9	82.6	79.9	77.3	76.0	74.7	73.4	73.4	76.0	76.0	76.0
7.5°	94.4	93.1	89.1	86.5	83.9	81.3	79.9	78.6	79.9	81.3	81.3
10°	104.9	103.5	98.3	94.4	93.1	90.4	89.1	87.8	89.1	89.1	89.1
12.5°	115.3	112.7	108.8	103.5	100.9	99.6	98.3	97.0	97.0	97.0	97.0
15°	124.5	120.6	116.6	112.7	110.1	107.5	106.2	104.9	106.2	107.5	107.5
17.5°	138.9	135.0	125.8	119.3	118.0	115.3	114.0	114.0	115.3	116.6	116.6
20°	154.7	146.8	136.3	129.8	128.4	124.5	123.2	123.2	124.5	125.8	125.8
22.5°	167.8	162.5	146.8	137.6	136.3	135.0	136.3	136.3	137.6	138.9	138.9
25°	213.6	192.7	170.4	163.8	162.5	159.9	157.3	156.0	157.3	161.2	162.5
27.5°	288.3	250.3	208.4	194.0	194.0	196.6	201.8	204.5	199.2	196.6	197.9
30°	338.1	287.0	226.7	213.6	216.3	229.4	241.2	249.0	243.8	239.8	241.2
32.5°	325.0	277.9	234.6	232.0	239.8	250.3	256.9	260.8	271.3	275.2	280.5
35°	296.2	260.8	237.2	247.7	253.0	253.0	253.0	253.0	272.6	291.0	296.2
37.5°	361.7	301.4	281.8	285.7	281.8	277.9	281.8	292.3	309.3	323.7	327.7
40°	424.7	348.6	315.9	313.2	311.9	325.0	348.6	367.0	372.2	359.1	361.7
42.5°	494.1	394.5	352.6	356.5	367.0	388.0	414.2	414.2	414.2	402.4	406.3
45°	559.6	448.2	423.3	433.8	433.8	444.3	458.7	449.6	461.3	466.6	473.1
47.5°	637.0	520.3	465.3	456.1	457.4	478.4	483.6	479.7	487.6	478.4	478.4
50°	660.6	532.1	488.9	524.3	524.3	500.7	481.0	483.6	505.9	530.8	536.1
52.5°	840.1	659.3	619.9	656.6	672.4	631.7	631.7	637.0	642.2	660.6	665.8
55°	1256.9	939.7	821.8	907.0	918.8	943.7	1011.8	1001.3	941.0	910.9	908.3
57.5°	1879.5	1394.5	1023.6	1144.2	1220.2	1322.4	1373.6	1343.4	1262.2	1234.6	1204.5
60°	2402.4	1909.6	1326.4	1536.1	1650.1	1667.1	1648.8	1651.4	1589.8	1609.5	1601.6
62.5°	2596.4	2343.4	1705.2	1832.3	1849.3	1796.9	1845.4	1956.8	1857.2	1798.2	1789.0
65°	2654.1	2504.7	1811.3	1728.7	1713.0	1703.8	1895.2	2081.3	1858.5	1720.9	1719.6
67.5°	2596.4	2339.5	1676.3	1540.0	1576.7	1651.4	1900.4	1969.9	1760.2	1608.2	1597.7
70°	2521.7	2073.4	1508.6	1390.6	1475.8	1584.6	1743.2	1715.6	1633.1	1498.1	1491.5
72.5°	2250.4	1796.9	1401.1	1302.8	1399.8	1431.2	1509.9	1498.1	1521.7	1436.5	1432.5
75°	2014.5	1650.1	1336.9	1221.5	1268.7	1263.5	1326.4	1340.8	1407.6	1370.9	1356.5
77.5°	1737.9	1435.2	1178.3	1044.6	1062.9	1061.6	1091.8	1100.9	1148.1	1150.8	1135.0
80°	1360.5	1124.5	920.1	786.4	789.0	765.4	769.4	768.0	777.2	787.7	773.3
82.5°	781.1	627.8	521.6	436.4	418.1	386.6	380.1	382.7	378.8	376.2	376.2
85°	382.7	297.5	273.9	245.1	234.6	226.7	230.7	238.5	242.5	234.6	230.7
87.5°	258.2	222.8	212.3	200.5	195.3	187.4	192.7	199.2	204.5	197.9	196.6
90°	204.5	176.9	174.3	171.7	167.8	161.2	166.5	174.3	178.2	173.0	170.4
92.5°	165.1	142.9	142.9	141.6	137.6	132.4	138.9	145.5	149.4	145.5	144.2
95°	127.1	110.1	114.0	111.4	107.5	106.2	110.1	115.3	118.0	115.3	115.3
97.5°	98.3	86.5	90.4	89.1	83.9	82.6	85.2	89.1	91.7	89.1	87.8
100°	66.8	61.6	66.8	66.8	61.6	59.0	61.6	65.5	66.8	66.8	65.5
102.5°	44.6	41.9	48.5	49.8	47.2	44.6	45.9	48.5	49.8	49.8	49.8
105°	31.5	31.5	38.0	39.3	36.7	34.1	36.7	38.0	38.0	38.0	38.0
107.5°	24.9	26.2	30.1	32.8	30.1	27.5	28.8	30.1	30.1	30.1	31.5
110°	21.0	21.0	24.9	27.5	24.9	23.6	23.6	23.6	23.6	24.9	27.5



REPORT NUMBER: P588499
 CATALOG NUMBER: GAT-CA6-LED-70-730-U-33-5-6-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	17.0	18.3	21.0	22.3	21.0	19.7	19.7	19.7	19.7	21.0	24.9
115°	14.4	15.7	18.3	18.3	17.0	17.0	17.0	15.7	15.7	17.0	23.6
117.5°	11.8	13.1	14.4	14.4	14.4	13.1	13.1	13.1	13.1	15.7	24.9
120°	10.5	10.5	11.8	11.8	10.5	10.5	10.5	10.5	9.2	13.1	19.7
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

(END OF REPORT)