

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: P588428

Luminaire Tested: **GAT-CA6-LED-130-730-U-33-5-X-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588428  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-9)  
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-130-730-U-33-5-X-X  
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR  
Light Source: (6) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16489 lumens  
Efficiency: N/A  
Efficacy: 132.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B4 - U5 - G5

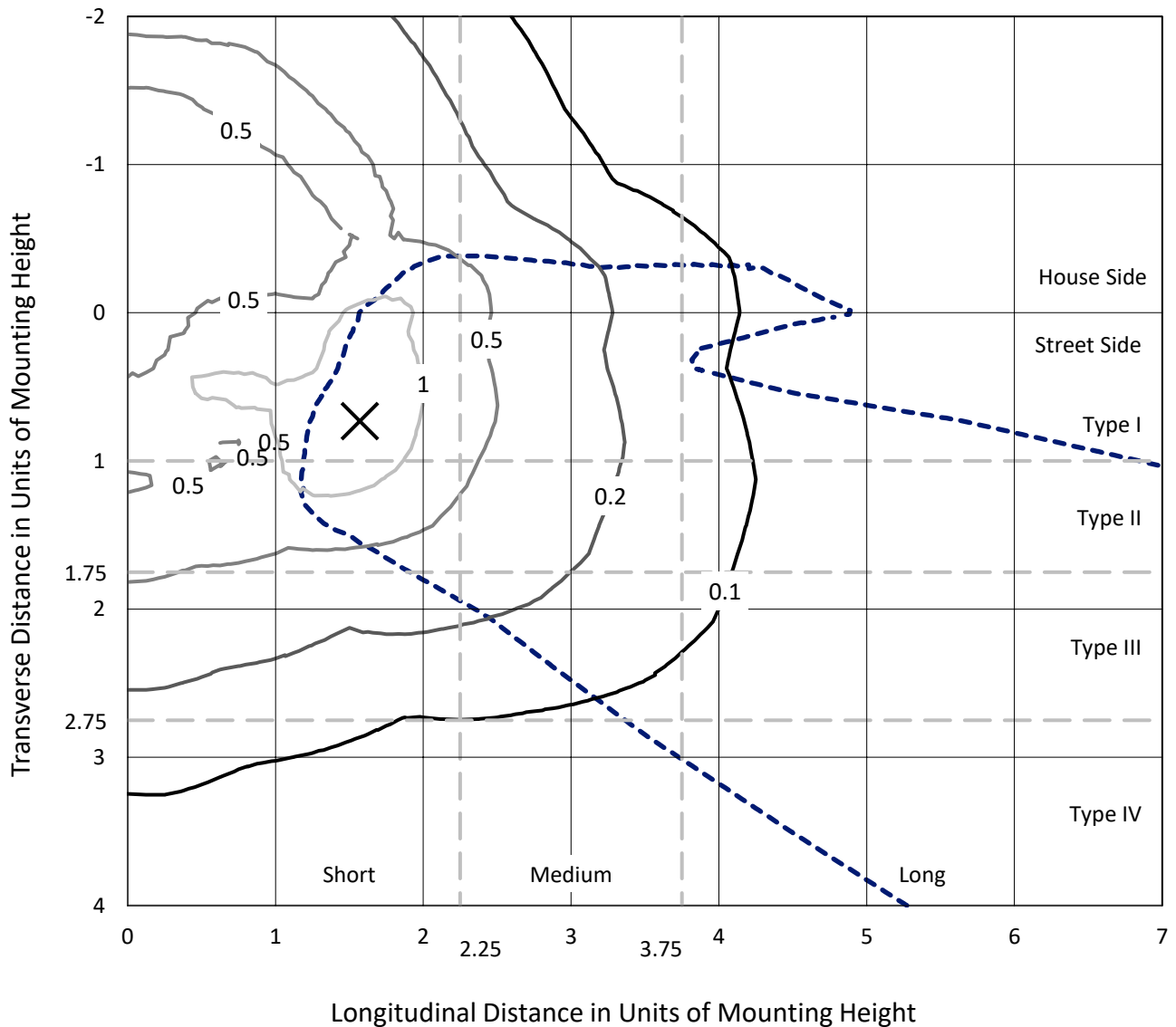
Input Watts (W): 124.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

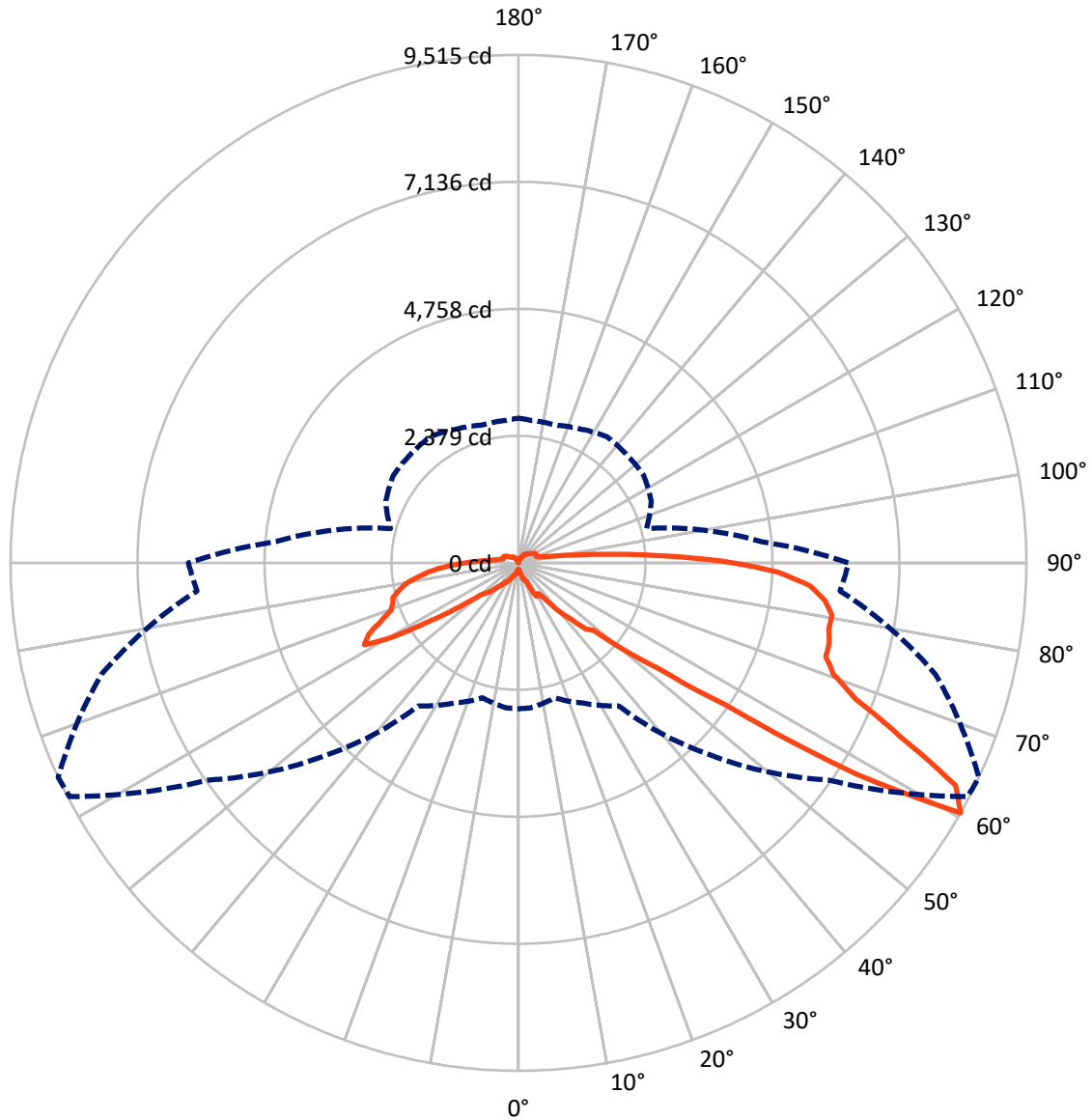
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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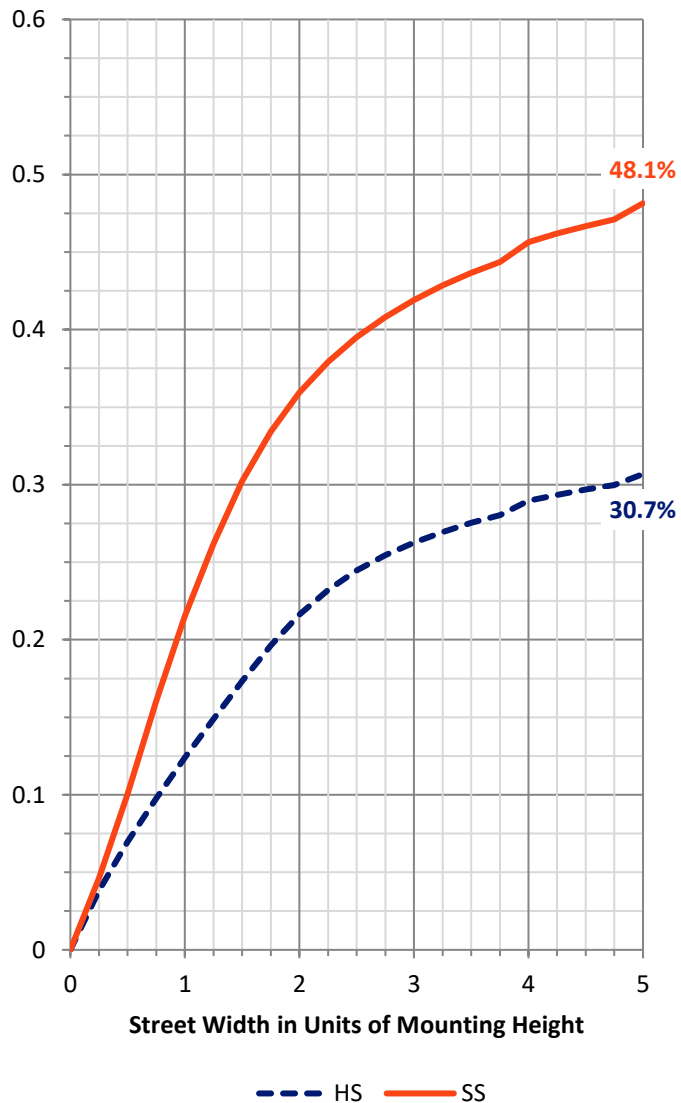
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5498.7	880.6	6379.3
	% Fixture	33.3	5.3	38.7
<b>Street Side</b>	Lumens	8797.2	1312.5	10109.7
	% Fixture	53.4	8.0	61.3
<b>Total</b>	Lumens	14295.9	2193.1	16489.0
	% Fixture	86.7	13.3	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.8	0.1
10°-20°	70.4	0.4
20°-30°	201.4	1.2
30°-40°	433.7	2.6
40°-50°	820.7	5.0
50°-60°	2292.5	13.9
60°-70°	4087.1	24.8
70°-80°	3578.3	21.7
80°-90°	2795.9	17.0
90°-100°	1057.0	6.4
100°-110°	363.6	2.2
110°-120°	297.3	1.8
120°-130°	199.7	1.2
130°-140°	137.1	0.8
140°-150°	86.2	0.5
150°-160°	40.0	0.2
160°-170°	11.3	0.1
170°-180°	1.0	0.0
0°-90°	14295.9	86.7
0°-180°	16489.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P588428

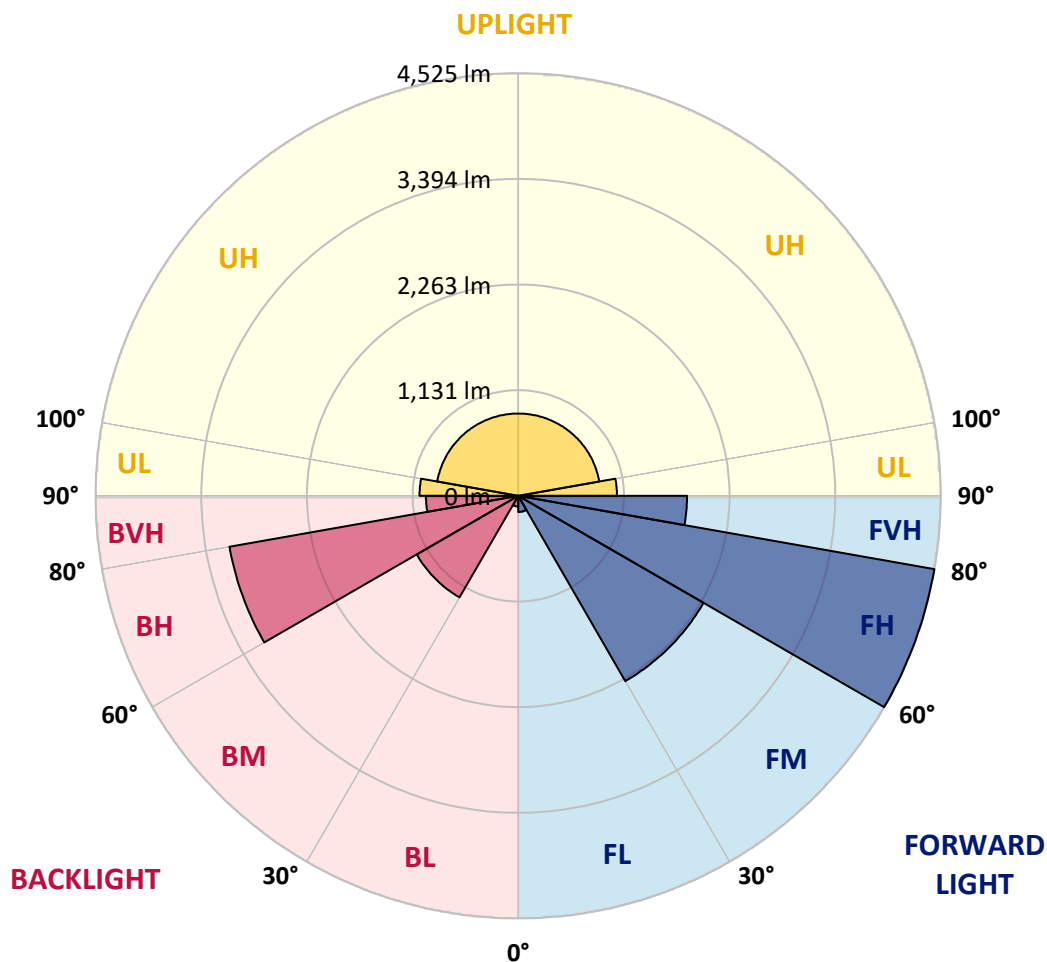
CATALOG NUMBER: GAT-CA6-LED-130-730-U-33-5-X-X

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	173.7	1.1			
FM (30°-60°)	2291.0	13.9			
FH (60°-80°)	4525.3	27.4			G2/5000
FVH (80°-90°)	1807.2	11.0			G5
BL (0°-30°)	113.9	0.7	B1/500		
BM (30°-60°)	1255.9	7.6	B2/2500		
BH (60°-80°)	3140.2	19.0	B4/5000		G4/5000
BVH (80°-90°)	988.7	6.0			G5
UL (90°-100°)	1057.0	6.4		U5	
UH (100°-180°)	880.6	5.3		U4/1000	

**BUG Rating: B4-U5-G5**

Type III Short





REPORT NUMBER: P588428  
 CATALOG NUMBER: GAT-CA6-LED-130-730-U-33-5-X-X

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	126.1	126.1	126.1	126.1	126.1	126.1	126.1	126.1	126.1	126.1	126.1
2.5°	145.4	141.1	136.8	136.8	134.7	132.5	132.5	128.3	130.4	128.3	128.3
5°	171.0	168.9	164.6	166.7	162.5	160.3	160.3	158.2	156.1	153.9	147.5
7.5°	198.8	198.8	201.0	203.1	196.7	190.3	188.1	183.8	183.8	181.7	177.4
10°	228.7	226.6	218.1	218.1	213.8	209.5	211.6	209.5	209.5	209.5	201.0
12.5°	237.3	235.2	228.7	228.7	228.7	226.6	235.2	233.0	235.2	233.0	220.2
15°	267.2	265.1	262.9	265.1	273.6	290.7	312.1	303.6	305.7	301.4	254.4
17.5°	280.0	286.5	290.7	292.9	301.4	301.4	305.7	303.6	312.1	318.5	290.7
20°	324.9	320.7	324.9	339.9	361.3	363.4	357.0	357.0	361.3	363.4	310.0
22.5°	344.2	342.0	359.1	346.3	346.3	357.0	395.5	382.7	382.7	378.4	333.5
25°	446.8	455.3	472.4	493.8	545.1	560.1	602.9	555.8	562.2	496.0	423.3
27.5°	536.6	543.0	643.5	733.3	773.9	752.5	788.8	701.2	709.7	718.3	617.8
30°	564.4	577.2	722.6	788.8	842.3	799.5	846.6	731.1	724.7	773.9	733.3
32.5°	543.0	555.8	709.7	737.5	793.1	951.3	891.5	705.5	686.2	709.7	758.9
35°	596.4	605.0	696.9	630.6	681.9	1329.7	1167.2	823.0	784.6	654.2	726.8
37.5°	716.2	716.2	825.2	872.2	910.7	1569.1	1532.8	1024.0	994.1	765.3	840.1
40°	867.9	863.7	998.3	1030.4	1047.5	1421.6	1853.4	1306.2	1239.9	900.0	1094.5
42.5°	959.9	951.3	1060.3	1094.5	1094.5	1203.6	2097.2	1590.5	1436.6	1049.6	1338.2
45°	996.2	1004.8	1145.8	1103.1	1135.2	1235.6	2358.0	1983.9	1767.9	1231.4	1552.0
47.5°	902.1	915.0	1118.1	1122.3	959.9	987.7	2114.3	2060.8	1883.4	1319.0	1620.4
50°	1107.4	1115.9	1188.6	1139.4	1060.3	1250.6	2518.3	2648.7	2571.7	1633.3	1710.2
52.5°	1520.0	1558.4	1626.8	1669.6	1646.1	2101.4	3377.7	3354.2	3290.0	2452.0	2334.4
55°	1968.9	2001.0	2097.2	2355.8	2552.5	3146.8	4200.7	4692.4	4688.1	3982.7	3638.5
57.5°	2377.2	2379.3	2392.2	2710.7	3014.3	4108.8	5502.6	7309.0	7471.5	6362.0	5209.8
60°	2732.1	2725.7	2616.6	2901.0	3270.8	5094.3	7093.1	9483.2	9515.2	8089.3	6043.5
62.5°	2828.3	2809.0	2650.8	2915.9	3232.3	5113.6	7499.3	9224.5	9188.2	8211.2	6152.5
65°	2744.9	2725.7	2524.7	2762.0	2911.6	4647.5	6926.4	7933.3	7873.4	7501.4	5857.5
67.5°	2620.9	2633.7	2434.9	2616.6	2719.2	4358.9	6323.5	6825.9	6808.8	6990.5	5611.7
70°	2441.3	2452.0	2270.3	2494.8	2644.4	4175.1	5746.3	6291.5	6261.5	6528.8	5250.4
72.5°	2447.8	2479.8	2263.9	2432.8	2588.8	3922.8	5485.5	6107.6	6020.0	6060.6	4816.4
75°	2464.9	2507.6	2278.9	2430.6	2576.0	3830.9	5455.6	6122.6	6011.4	5891.7	4651.8
77.5°	2471.3	2533.3	2287.4	2454.2	2580.3	3704.8	5387.2	6047.8	5943.0	5729.2	4457.3
80°	2420.0	2486.2	2251.1	2456.3	2552.5	3454.6	5214.0	6034.9	5955.8	5707.9	4378.2
82.5°	2317.3	2383.6	2180.5	2349.4	2499.1	3200.2	4970.3	5784.8	5780.5	5502.6	4211.4
85°	2092.9	2165.6	2011.6	2167.7	2351.6	2862.5	4478.6	5359.4	5477.0	5252.5	3986.9
87.5°	1877.0	1949.6	1868.4	1956.1	2142.0	2488.4	3848.0	4626.1	4846.3	4660.3	3424.7
90°	1631.1	1705.9	1639.7	1605.5	1755.1	1986.0	3076.3	3597.9	3805.2	3691.9	2520.4
92.5°	1306.2	1370.3	1308.3	1229.2	1319.0	1458.0	2285.3	2518.3	2567.5	2458.4	1652.5
95°	987.7	1034.7	979.1	900.0	910.7	998.3	1575.5	1650.4	1637.5	1507.1	1049.6
97.5°	686.2	714.0	677.7	622.1	641.3	696.9	1043.2	1034.7	1034.7	921.4	686.2
100°	476.7	487.4	470.3	444.7	459.6	496.0	701.2	699.1	677.7	622.1	500.2
102.5°	378.4	380.5	363.4	346.3	337.8	372.0	506.7	504.5	508.8	483.1	391.2
105°	333.5	331.4	316.4	301.4	284.3	318.5	401.9	419.0	416.9	395.5	335.6
107.5°	305.7	303.6	288.6	275.8	260.8	290.7	348.5	372.0	369.8	367.7	316.4
110°	284.3	282.2	269.4	256.5	243.7	277.9	327.1	363.4	363.4	363.4	320.7



REPORT NUMBER: P588428  
 CATALOG NUMBER: GAT-CA6-LED-130-730-U-33-5-X-X

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	269.4	269.4	258.7	248.0	237.3	275.8	314.3	357.0	357.0	367.7	335.6
115°	260.8	258.7	250.1	243.7	235.2	277.9	310.0	352.7	354.9	369.8	333.5
117.5°	254.4	252.3	245.8	237.3	233.0	273.6	312.1	361.3	359.1	382.7	327.1
120°	243.7	239.4	230.9	222.3	218.1	252.3	303.6	350.6	346.3	357.0	301.4
122.5°	235.2	222.3	207.4	201.0	201.0	228.7	284.3	316.4	312.1	303.6	271.5
125°	215.9	203.1	190.3	188.1	190.3	213.8	271.5	290.7	292.9	286.5	256.5
127.5°	194.5	186.0	179.6	179.6	183.8	209.5	267.2	280.0	280.0	267.2	243.7
130°	183.8	181.7	177.4	177.4	186.0	211.6	260.8	265.1	265.1	248.0	237.3
132.5°	179.6	175.3	171.0	171.0	179.6	205.2	243.7	252.3	250.1	233.0	224.5
135°	171.0	168.9	164.6	164.6	175.3	201.0	228.7	237.3	235.2	213.8	207.4
137.5°	166.7	162.5	162.5	162.5	173.2	198.8	215.9	222.3	220.2	198.8	192.4
140°	160.3	158.2	153.9	153.9	168.9	192.4	203.1	205.2	203.1	186.0	179.6
142.5°	149.6	147.5	145.4	149.6	164.6	181.7	190.3	190.3	188.1	177.4	168.9
145°	143.2	141.1	139.0	149.6	162.5	171.0	179.6	173.2	173.2	166.7	158.2
147.5°	136.8	134.7	134.7	143.2	153.9	153.9	160.3	158.2	160.3	158.2	149.6
150°	124.0	121.9	121.9	128.3	130.4	130.4	136.8	136.8	136.8	136.8	130.4
152.5°	109.0	106.9	109.0	111.2	111.2	111.2	115.4	117.6	117.6	115.4	113.3
155°	94.1	94.1	94.1	96.2	96.2	94.1	100.5	100.5	100.5	100.5	98.3
157.5°	83.4	83.4	83.4	83.4	83.4	81.2	85.5	85.5	87.6	85.5	85.5
160°	72.7	70.5	70.5	70.5	70.5	68.4	70.5	70.5	70.5	72.7	72.7
162.5°	57.7	55.6	55.6	55.6	55.6	51.3	55.6	53.4	55.6	55.6	57.7
165°	47.0	44.9	44.9	44.9	42.8	40.6	42.8	40.6	40.6	40.6	42.8
167.5°	36.3	36.3	34.2	36.3	34.2	29.9	29.9	27.8	27.8	27.8	27.8
170°	27.8	25.7	23.5	25.7	23.5	19.2	19.2	17.1	17.1	15.0	15.0
172.5°	19.2	17.1	15.0	17.1	15.0	10.7	10.7	6.4	6.4	6.4	6.4
175°	17.1	15.0	12.8	15.0	12.8	8.6	6.4	4.3	4.3	4.3	4.3
177.5°	17.1	15.0	12.8	15.0	12.8	8.6	6.4	4.3	4.3	4.3	4.3
180°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6





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 CATALOG NUMBER: GAT-CA6-LED-130-730-U-33-5-X-X

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	126.1	126.1	126.1	126.1	126.1	126.1	126.1	126.1	126.1	126.1	126.1
2.5°	128.3	126.1	124.0	128.3	126.1	128.3	130.4	132.5	132.5	130.4	130.4
5°	147.5	145.4	141.1	139.0	134.7	134.7	134.7	139.0	139.0	136.8	139.0
7.5°	175.3	171.0	164.6	160.3	153.9	153.9	151.8	156.1	158.2	153.9	156.1
10°	196.7	194.5	186.0	179.6	173.2	171.0	171.0	173.2	173.2	171.0	171.0
12.5°	215.9	211.6	203.1	196.7	188.1	186.0	186.0	188.1	188.1	186.0	186.0
15°	243.7	230.9	222.3	215.9	207.4	205.2	203.1	205.2	207.4	203.1	203.1
17.5°	282.2	267.2	248.0	230.9	222.3	226.6	228.7	230.9	228.7	222.3	222.3
20°	303.6	295.0	269.4	256.5	245.8	245.8	245.8	245.8	245.8	243.7	245.8
22.5°	318.5	305.7	273.6	265.1	258.7	262.9	267.2	269.4	269.4	267.2	267.2
25°	386.9	339.9	307.8	301.4	292.9	295.0	290.7	290.7	292.9	290.7	295.0
27.5°	532.3	455.3	382.7	357.0	350.6	350.6	354.9	354.9	354.9	354.9	352.7
30°	639.2	549.4	429.7	395.5	391.2	410.5	421.1	429.7	425.4	419.0	419.0
32.5°	656.3	558.0	438.2	425.4	436.1	451.1	461.8	468.2	474.6	472.4	470.3
35°	620.0	515.2	431.8	448.9	457.5	466.0	468.2	463.9	483.1	491.7	493.8
37.5°	692.6	577.2	502.4	515.2	504.5	496.0	500.2	502.4	528.0	540.9	553.7
40°	885.0	696.9	570.8	564.4	558.0	577.2	602.9	615.7	613.5	605.0	607.1
42.5°	1071.0	814.5	643.5	641.3	639.2	673.4	714.0	711.9	692.6	677.7	677.7
45°	1261.3	927.8	758.9	761.0	756.8	769.6	780.3	771.7	773.9	778.1	782.4
47.5°	1378.9	1030.4	831.6	825.2	797.4	823.0	853.0	833.7	827.3	816.6	820.9
50°	1406.7	1056.1	874.3	921.4	895.7	876.5	844.4	831.6	855.1	872.2	885.0
52.5°	1827.8	1304.0	1092.4	1167.2	1133.0	1064.6	1058.2	1036.8	1062.5	1064.6	1079.6
55°	3063.4	2090.7	1505.0	1577.7	1579.8	1556.3	1663.2	1603.3	1549.9	1526.4	1517.8
57.5°	4829.2	3232.3	1947.5	2039.4	2127.1	2210.5	2355.8	2234.0	2080.1	2060.8	2082.2
60°	6184.6	4564.1	2484.1	2742.8	2860.3	2864.6	2883.9	2764.1	2670.1	2678.6	2708.6
62.5°	6475.3	5675.8	3163.9	3270.8	3281.5	3202.4	3236.6	3313.5	3181.0	3076.3	3104.0
65°	6280.8	6116.2	3386.2	3108.3	3091.2	3104.0	3337.1	3550.8	3283.6	3018.5	3018.5
67.5°	5904.5	5780.5	3159.6	2796.2	2843.2	2988.6	3283.6	3390.5	3106.2	2824.0	2824.0
70°	5502.6	5254.6	2905.2	2548.2	2663.7	2832.6	3024.9	3033.5	2866.8	2665.8	2653.0
72.5°	5068.7	4844.2	2796.2	2475.5	2529.0	2558.9	2663.7	2729.9	2710.7	2580.3	2578.2
75°	4940.4	4758.7	2794.1	2441.3	2409.3	2398.6	2471.3	2614.5	2680.8	2603.8	2608.1
77.5°	4745.9	4636.8	2663.7	2298.1	2263.9	2263.9	2302.4	2417.8	2518.3	2486.2	2496.9
80°	4611.2	4446.6	2464.9	2142.0	2095.0	2101.4	2105.7	2184.8	2278.9	2283.1	2283.1
82.5°	4352.5	4042.5	2163.4	1909.0	1877.0	1885.5	1870.6	1915.4	1941.1	1973.2	1966.8
85°	3927.1	3488.8	1827.8	1654.6	1603.3	1586.2	1573.4	1575.5	1590.5	1584.1	1558.4
87.5°	3290.0	2766.3	1458.0	1357.5	1297.6	1254.9	1237.8	1216.4	1214.3	1190.7	1199.3
90°	2428.5	1898.3	1081.7	1045.4	1002.6	957.7	934.2	912.8	895.7	872.2	863.7
92.5°	1584.1	1222.8	791.0	771.7	743.9	718.3	707.6	696.9	692.6	673.4	679.8
95°	989.8	827.3	594.3	572.9	558.0	551.5	553.7	555.8	551.5	530.2	536.6
97.5°	660.6	598.6	463.9	448.9	434.0	431.8	434.0	438.2	440.4	425.4	429.7
100°	487.4	459.6	380.5	369.8	357.0	352.7	354.9	359.1	361.3	348.5	350.6
102.5°	386.9	374.1	329.2	324.9	310.0	305.7	310.0	312.1	314.3	305.7	305.7
105°	339.9	339.9	303.6	301.4	290.7	286.5	288.6	290.7	292.9	284.3	284.3
107.5°	327.1	329.2	292.9	295.0	288.6	286.5	290.7	295.0	292.9	286.5	284.3
110°	337.8	342.0	292.9	299.3	301.4	305.7	314.3	316.4	316.4	312.1	314.3



REPORT NUMBER: P588428  
 CATALOG NUMBER: GAT-CA6-LED-130-730-U-33-5-X-X

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	348.5	354.9	288.6	303.6	318.5	329.2	344.2	352.7	348.5	346.3	348.5
115°	339.9	344.2	269.4	292.9	320.7	335.6	339.9	339.9	329.2	329.2	331.4
117.5°	329.2	337.8	250.1	269.4	288.6	301.4	299.3	292.9	280.0	275.8	288.6
120°	305.7	331.4	239.4	243.7	245.8	250.1	243.7	237.3	226.6	224.5	233.0
122.5°	282.2	305.7	220.2	215.9	213.8	213.8	211.6	209.5	203.1	205.2	213.8
125°	262.9	275.8	201.0	194.5	192.4	194.5	194.5	194.5	190.3	186.0	186.0
127.5°	248.0	252.3	190.3	181.7	179.6	179.6	179.6	181.7	179.6	173.2	173.2
130°	239.4	237.3	183.8	168.9	166.7	168.9	168.9	171.0	166.7	162.5	162.5
132.5°	222.3	218.1	175.3	160.3	158.2	160.3	160.3	160.3	156.1	151.8	151.8
135°	203.1	198.8	164.6	149.6	147.5	149.6	149.6	151.8	147.5	143.2	143.2
137.5°	188.1	183.8	153.9	141.1	139.0	139.0	141.1	141.1	139.0	134.7	134.7
140°	175.3	171.0	143.2	132.5	128.3	130.4	130.4	130.4	128.3	124.0	124.0
142.5°	164.6	162.5	132.5	121.9	117.6	119.7	119.7	121.9	117.6	113.3	113.3
145°	156.1	151.8	124.0	111.2	109.0	109.0	109.0	111.2	106.9	102.6	102.6
147.5°	147.5	143.2	113.3	100.5	98.3	98.3	98.3	98.3	96.2	91.9	89.8
150°	130.4	128.3	104.8	91.9	87.6	87.6	87.6	85.5	81.2	77.0	77.0
152.5°	111.2	109.0	91.9	81.2	77.0	77.0	74.8	74.8	70.5	68.4	66.3
155°	96.2	96.2	83.4	72.7	68.4	66.3	64.1	64.1	62.0	59.9	57.7
157.5°	85.5	83.4	74.8	66.3	57.7	57.7	55.6	55.6	53.4	51.3	49.2
160°	72.7	72.7	64.1	55.6	49.2	47.0	47.0	44.9	42.8	40.6	40.6
162.5°	57.7	57.7	51.3	44.9	38.5	38.5	36.3	36.3	34.2	32.1	29.9
165°	40.6	40.6	38.5	34.2	29.9	27.8	27.8	27.8	25.7	23.5	23.5
167.5°	27.8	27.8	25.7	23.5	21.4	19.2	21.4	21.4	19.2	17.1	17.1
170°	15.0	15.0	12.8	12.8	10.7	10.7	12.8	15.0	12.8	10.7	8.6
172.5°	6.4	6.4	6.4	6.4	4.3	6.4	8.6	10.7	8.6	6.4	6.4
175°	4.3	4.3	6.4	6.4	4.3	6.4	8.6	10.7	8.6	6.4	6.4
177.5°	4.3	4.3	6.4	6.4	4.3	6.4	8.6	10.7	8.6	6.4	6.4
180°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6

(END OF REPORT)