

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: P588435

Luminaire Tested: **GAT-CA6-LED-130-750-U-33-5-6-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588435  
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-130-750-U-33-5-6-X  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR  
Light Source: (6) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11656 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B4 - U3 - G4

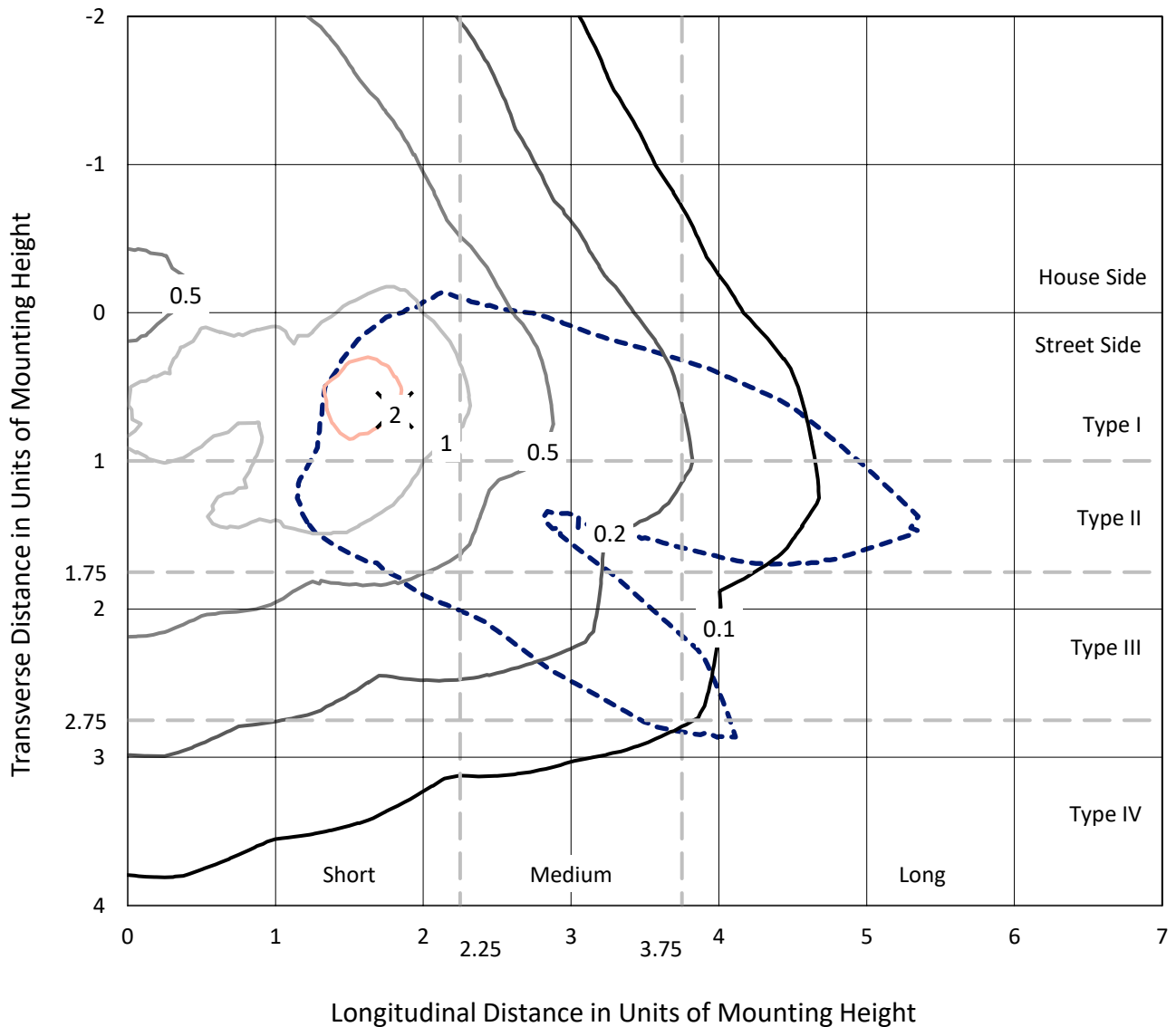
Input Watts (W): 124.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

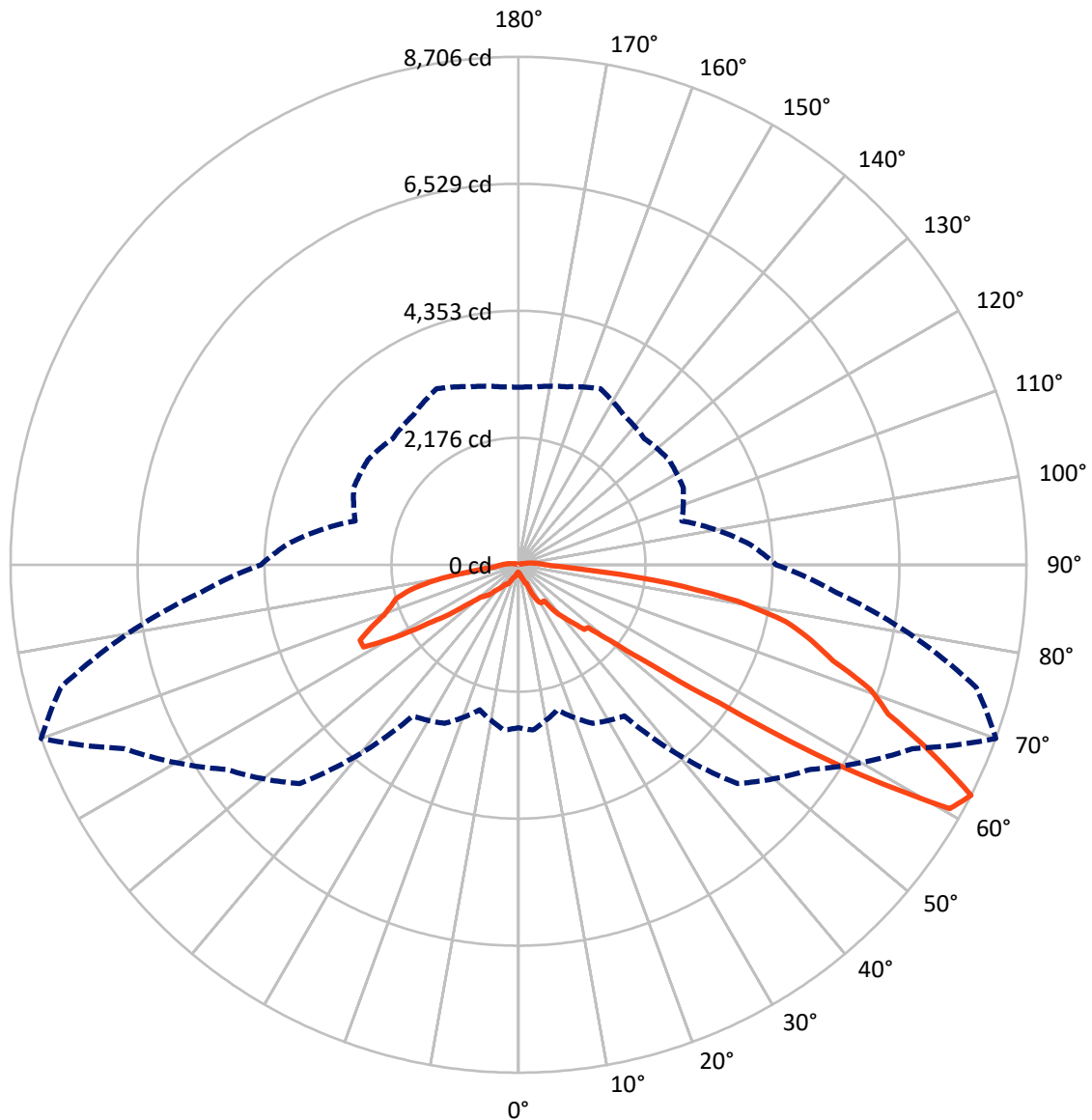
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.5 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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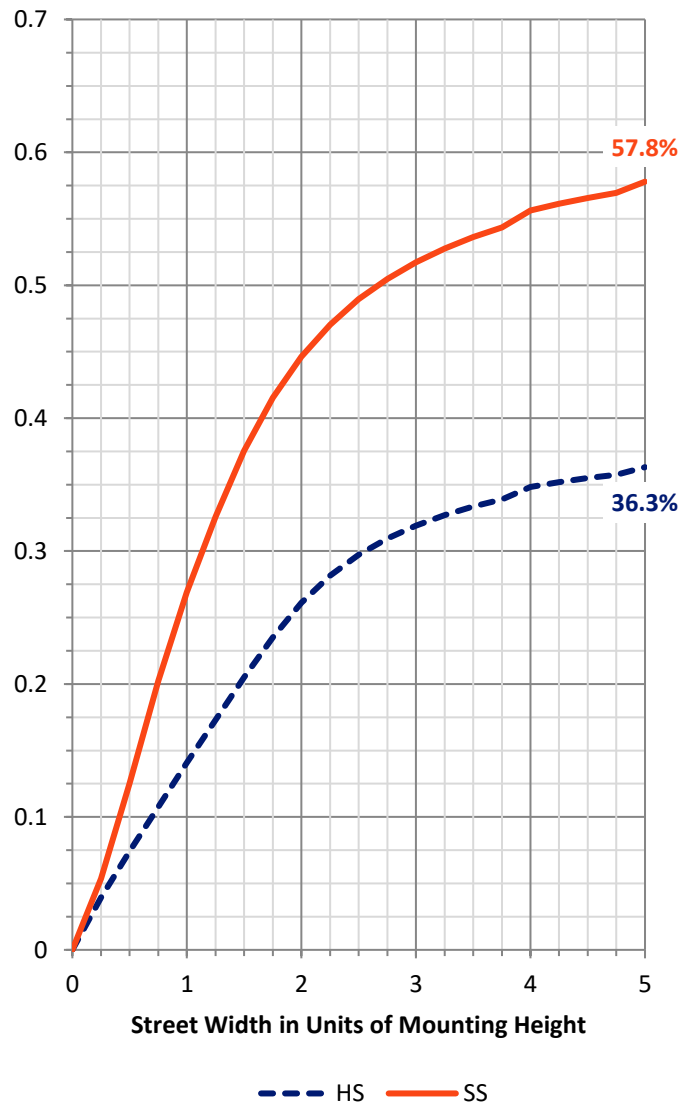
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4320.0	158.3	4478.3
	% Fixture	37.1	1.4	38.4
<b>Street Side</b>	Lumens	6960.0	217.6	7177.7
	% Fixture	59.7	1.9	61.6
<b>Total</b>	Lumens	11280.0	376.0	11656.0
	% Fixture	96.8	3.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.7	0.1
10°-20°	63.4	0.5
20°-30°	196.6	1.7
30°-40°	421.7	3.6
40°-50°	790.0	6.8
50°-60°	2050.2	17.6
60°-70°	3755.6	32.2
70°-80°	3012.3	25.8
80°-90°	975.4	8.4
90°-100°	257.0	2.2
100°-110°	83.6	0.7
110°-120°	32.8	0.3
120°-130°	2.6	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°	11280.0	96.8
0°-180°	11656.0	100.0

**Coefficient of Utilization**



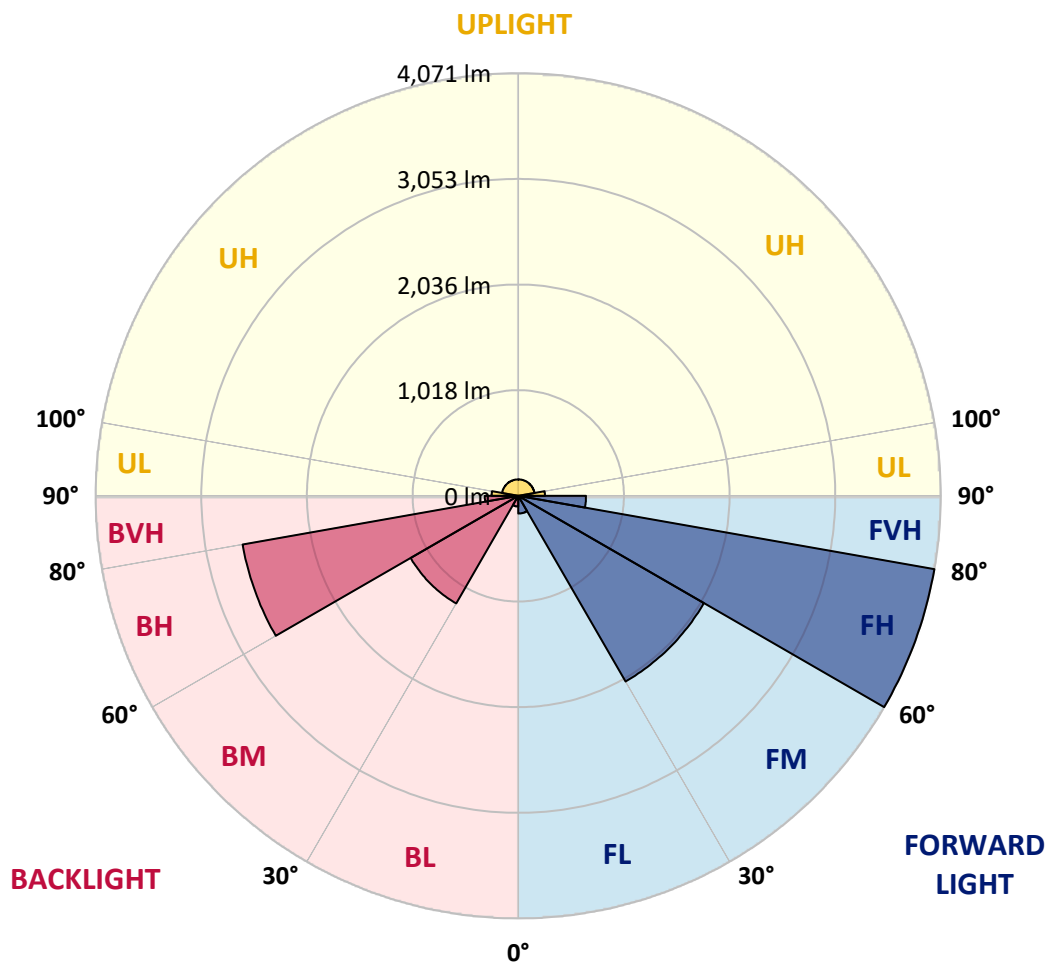
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	171.0	1.5			
FM (30°-60°)	2065.3	17.7			
FH (60°-80°)	4071.2	34.9			G2/5000
FVH (80°-90°)	652.6	5.6			G4/750
BL (0°-30°)	103.8	0.9	B0/110		
BM (30°-60°)	1196.7	10.3	B2/2500		
BH (60°-80°)	2696.7	23.1	B4/5000		G4/5000
BVH (80°-90°)	322.8	2.8			G3/500
UL (90°-100°)	257.0	2.2		U3/500	
UH (100°-180°)	158.3	1.4		U3/500	

**BUG Rating: B4-U3-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2
2.5°	149.3	149.3	149.3	147.1	144.8	142.6	140.4	140.4	138.2	135.9	133.7
5°	162.7	160.4	158.2	153.7	151.5	151.5	149.3	149.3	149.3	147.1	144.8
7.5°	180.5	180.5	178.3	176.0	173.8	171.6	169.3	167.1	167.1	164.9	162.7
10°	205.0	205.0	205.0	202.8	202.8	200.5	196.1	193.9	189.4	187.2	180.5
12.5°	229.5	231.7	227.3	227.3	227.3	225.1	220.6	218.4	213.9	209.5	200.5
15°	254.0	251.8	249.6	247.3	251.8	251.8	249.6	249.6	240.7	234.0	218.4
17.5°	276.3	276.3	278.5	278.5	285.2	283.0	283.0	280.8	276.3	265.2	245.1
20°	312.0	314.2	314.2	314.2	336.5	345.4	347.6	349.8	343.2	320.9	280.8
22.5°	347.6	349.8	365.4	361.0	361.0	361.0	383.3	372.1	343.2	316.4	294.1
25°	470.2	476.8	481.3	496.9	514.7	563.7	641.7	617.2	572.7	481.3	405.5
27.5°	588.3	597.2	677.4	788.8	804.4	746.5	802.2	728.6	706.4	612.8	550.4
30°	641.7	657.3	795.5	871.2	898.0	822.2	902.4	762.1	755.4	688.5	635.1
32.5°	655.1	666.2	817.8	826.7	833.4	824.5	944.8	773.2	757.6	690.8	612.8
35°	635.1	648.4	750.9	699.7	701.9	860.1	1085.2	833.4	762.1	646.2	559.3
37.5°	782.1	782.1	869.0	882.4	940.3	1132.0	1421.6	1100.8	1020.5	842.3	735.3
40°	891.3	902.4	1040.6	1091.8	1100.8	1263.4	1780.4	1290.2	1176.5	942.6	860.1
42.5°	1038.4	1036.1	1163.2	1198.8	1223.3	1283.5	1820.5	1484.0	1350.3	1067.3	1004.9
45°	1062.9	1098.5	1214.4	1174.3	1205.5	1359.2	1900.7	1758.1	1579.8	1303.5	1174.3
47.5°	964.8	1013.9	1247.8	1214.4	1089.6	1160.9	1524.1	1804.9	1608.8	1339.2	1247.8
50°	1040.6	1067.3	1183.2	1160.9	993.8	1234.5	1673.4	2261.7	2043.3	1593.2	1359.2
52.5°	1345.9	1403.8	1423.9	1510.8	1430.5	1847.2	2341.9	2865.5	2836.6	2306.2	1793.7
55°	1729.1	1813.8	1902.9	2232.7	2279.5	2901.2	3268.9	3828.1	4175.8	3647.7	2751.9
57.5°	2143.6	2263.9	2234.9	2714.0	2787.5	3930.6	4269.3	5579.6	6508.7	5791.2	4030.9
60°	2544.7	2624.9	2462.2	2883.4	3023.7	4949.0	5445.9	7266.3	8489.7	7725.4	4964.6
62.5°	2792.0	2843.3	2575.9	2999.2	3164.1	5303.3	6112.1	7455.7	8705.8	8124.2	5470.4
65°	2789.8	2776.4	2471.1	2838.8	2816.5	4895.5	5907.1	6265.9	7776.6	7678.6	5535.0
67.5°	2680.6	2685.0	2364.2	2656.1	2564.7	4316.1	5472.6	5301.0	6836.3	6967.8	5383.5
70°	2575.9	2629.3	2324.1	2578.1	2535.8	4151.2	5283.2	4770.7	6395.1	6644.7	5223.0
72.5°	2428.8	2480.0	2192.6	2415.4	2431.0	3821.5	4960.1	4164.6	5639.7	5940.5	4681.6
75°	2426.6	2491.2	2221.6	2417.7	2442.2	3634.3	5000.2	3955.2	5187.4	5590.7	4369.6
77.5°	2288.4	2346.4	2096.8	2279.5	2348.6	3288.9	4770.7	3694.4	4686.0	5138.4	3961.8
80°	1838.3	1916.3	1711.3	1831.6	1869.5	2466.7	3825.9	3026.0	3812.5	4264.9	3237.7
82.5°	1256.7	1328.0	1192.1	1281.2	1330.3	1617.7	2644.9	2179.2	2591.5	2867.8	2027.7
85°	726.4	811.1	730.9	719.7	744.2	853.4	1423.9	1158.7	1205.5	1267.9	900.2
87.5°	456.8	470.2	430.1	432.3	436.7	467.9	648.4	517.0	570.4	646.2	545.9
90°	363.2	376.6	347.6	349.8	343.2	372.1	485.8	394.4	439.0	505.8	432.3
92.5°	314.2	323.1	303.0	307.5	303.0	325.3	405.5	325.3	361.0	414.5	354.3
95°	267.4	274.1	262.9	265.2	251.8	265.2	316.4	247.3	274.1	312.0	265.2
97.5°	213.9	220.6	213.9	213.9	200.5	207.2	242.9	191.6	209.5	234.0	200.5
100°	169.3	171.6	169.3	167.1	156.0	156.0	169.3	138.2	144.8	160.4	138.2
102.5°	129.2	131.5	129.2	127.0	113.6	107.0	107.0	89.1	93.6	98.0	86.9
105°	102.5	104.7	102.5	98.0	86.9	80.2	78.0	64.6	64.6	66.8	60.2
107.5°	84.7	84.7	84.7	80.2	73.5	64.6	57.9	46.8	46.8	49.0	46.8
110°	69.1	69.1	66.8	64.6	57.9	51.2	44.6	37.9	37.9	37.9	35.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	57.9	57.9	55.7	53.5	46.8	40.1	35.7	31.2	31.2	31.2	29.0
115°	49.0	49.0	46.8	44.6	40.1	33.4	29.0	24.5	24.5	24.5	24.5
117.5°	42.3	42.3	40.1	37.9	33.4	29.0	24.5	20.1	20.1	20.1	20.1
120°	37.9	35.7	33.4	31.2	26.7	24.5	20.1	17.8	17.8	17.8	15.6
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°	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2
2.5°	133.7	133.7	131.5	131.5	131.5	129.2	129.2	131.5	131.5	131.5	131.5
5°	142.6	140.4	135.9	131.5	129.2	127.0	124.8	124.8	129.2	129.2	129.2
7.5°	160.4	158.2	151.5	147.1	142.6	138.2	135.9	133.7	135.9	138.2	138.2
10°	178.3	176.0	167.1	160.4	158.2	153.7	151.5	149.3	151.5	151.5	151.5
12.5°	196.1	191.6	184.9	176.0	171.6	169.3	167.1	164.9	164.9	164.9	164.9
15°	211.7	205.0	198.3	191.6	187.2	182.7	180.5	178.3	180.5	182.7	182.7
17.5°	236.2	229.5	213.9	202.8	200.5	196.1	193.9	193.9	196.1	198.3	198.3
20°	262.9	249.6	231.7	220.6	218.4	211.7	209.5	209.5	211.7	213.9	213.9
22.5°	285.2	276.3	249.6	234.0	231.7	229.5	231.7	231.7	234.0	236.2	236.2
25°	363.2	327.6	289.7	278.5	276.3	271.8	267.4	265.2	267.4	274.1	276.3
27.5°	490.2	425.6	354.3	329.8	329.8	334.2	343.2	347.6	338.7	334.2	336.5
30°	574.9	488.0	385.5	363.2	367.7	389.9	410.0	423.4	414.5	407.8	410.0
32.5°	552.6	472.4	398.9	394.4	407.8	425.6	436.7	443.4	461.2	467.9	476.8
35°	503.6	443.4	403.3	421.1	430.1	430.1	430.1	430.1	463.5	494.7	503.6
37.5°	615.0	512.5	479.1	485.8	479.1	472.4	479.1	496.9	525.9	550.4	557.1
40°	722.0	592.7	537.0	532.6	530.3	552.6	592.7	623.9	632.8	610.5	615.0
42.5°	840.1	670.7	599.4	606.1	623.9	659.6	704.1	704.1	704.1	684.1	690.8
45°	951.5	762.1	719.7	737.6	737.6	755.4	779.9	764.3	784.3	793.3	804.4
47.5°	1082.9	884.6	791.0	775.4	777.7	813.3	822.2	815.5	828.9	813.3	813.3
50°	1123.0	904.7	831.1	891.3	891.3	851.2	817.8	822.2	860.1	902.4	911.4
52.5°	1428.3	1120.8	1054.0	1116.4	1143.1	1074.0	1074.0	1082.9	1091.8	1123.0	1132.0
55°	2136.9	1597.7	1397.1	1542.0	1562.0	1604.3	1720.2	1702.4	1599.9	1548.6	1544.2
57.5°	3195.3	2370.9	1740.3	1945.3	2074.5	2248.3	2335.2	2284.0	2145.8	2099.0	2047.8
60°	4084.4	3246.6	2255.0	2611.5	2805.4	2834.3	2803.1	2807.6	2702.9	2736.3	2722.9
62.5°	4414.2	3984.1	2899.0	3115.1	3144.1	3054.9	3137.4	3326.8	3157.4	3057.2	3041.6
65°	4512.2	4258.2	3079.5	2939.1	2912.3	2896.7	3222.1	3538.5	3159.7	2925.7	2923.5
67.5°	4414.2	3977.4	2849.9	2618.2	2680.6	2807.6	3231.0	3349.1	2992.5	2734.1	2716.2
70°	4287.2	3525.1	2564.7	2364.2	2509.0	2694.0	2963.6	2916.8	2776.4	2546.9	2535.8
72.5°	3825.9	3054.9	2382.0	2214.9	2379.8	2433.3	2567.0	2546.9	2587.0	2442.2	2435.5
75°	3424.8	2805.4	2272.8	2076.7	2157.0	2148.0	2255.0	2279.5	2393.1	2330.8	2306.2
77.5°	2954.7	2439.9	2003.2	1775.9	1807.1	1804.9	1856.1	1871.7	1952.0	1956.4	1929.7
80°	2312.9	1911.8	1564.2	1337.0	1341.4	1301.3	1308.0	1305.8	1321.4	1339.2	1314.7
82.5°	1328.0	1067.3	886.8	742.0	710.8	657.3	646.2	650.7	644.0	639.5	639.5
85°	650.7	505.8	465.7	416.7	398.9	385.5	392.2	405.5	412.2	398.9	392.2
87.5°	439.0	378.8	361.0	340.9	332.0	318.6	327.6	338.7	347.6	336.5	334.2
90°	347.6	300.8	296.4	291.9	285.2	274.1	283.0	296.4	303.0	294.1	289.7
92.5°	280.8	242.9	242.9	240.7	234.0	225.1	236.2	247.3	254.0	247.3	245.1
95°	216.1	187.2	193.9	189.4	182.7	180.5	187.2	196.1	200.5	196.1	196.1
97.5°	167.1	147.1	153.7	151.5	142.6	140.4	144.8	151.5	156.0	151.5	149.3
100°	113.6	104.7	113.6	113.6	104.7	100.3	104.7	111.4	113.6	113.6	111.4
102.5°	75.8	71.3	82.4	84.7	80.2	75.8	78.0	82.4	84.7	84.7	84.7
105°	53.5	53.5	64.6	66.8	62.4	57.9	62.4	64.6	64.6	64.6	64.6
107.5°	42.3	44.6	51.2	55.7	51.2	46.8	49.0	51.2	51.2	51.2	53.5
110°	35.7	35.7	42.3	46.8	42.3	40.1	40.1	40.1	40.1	42.3	46.8



REPORT NUMBER: P588435  
 CATALOG NUMBER: GAT-CA6-LED-130-750-U-33-5-6-X

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	29.0	31.2	35.7	37.9	35.7	33.4	33.4	33.4	33.4	35.7	42.3
115°	24.5	26.7	31.2	31.2	29.0	29.0	29.0	26.7	26.7	29.0	40.1
117.5°	20.1	22.3	24.5	24.5	24.5	22.3	22.3	22.3	22.3	26.7	42.3
120°	17.8	17.8	20.1	20.1	17.8	17.8	17.8	17.8	15.6	22.3	33.4
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

(END OF REPORT)