

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: P588440

Luminaire Tested: **GAT-CA6-LED-130-760-U-33-5-X-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588440
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-130-760-U-33-5-X-X
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR
Light Source: (6) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16822 lumens
Efficiency: N/A
Efficacy: 135.3 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

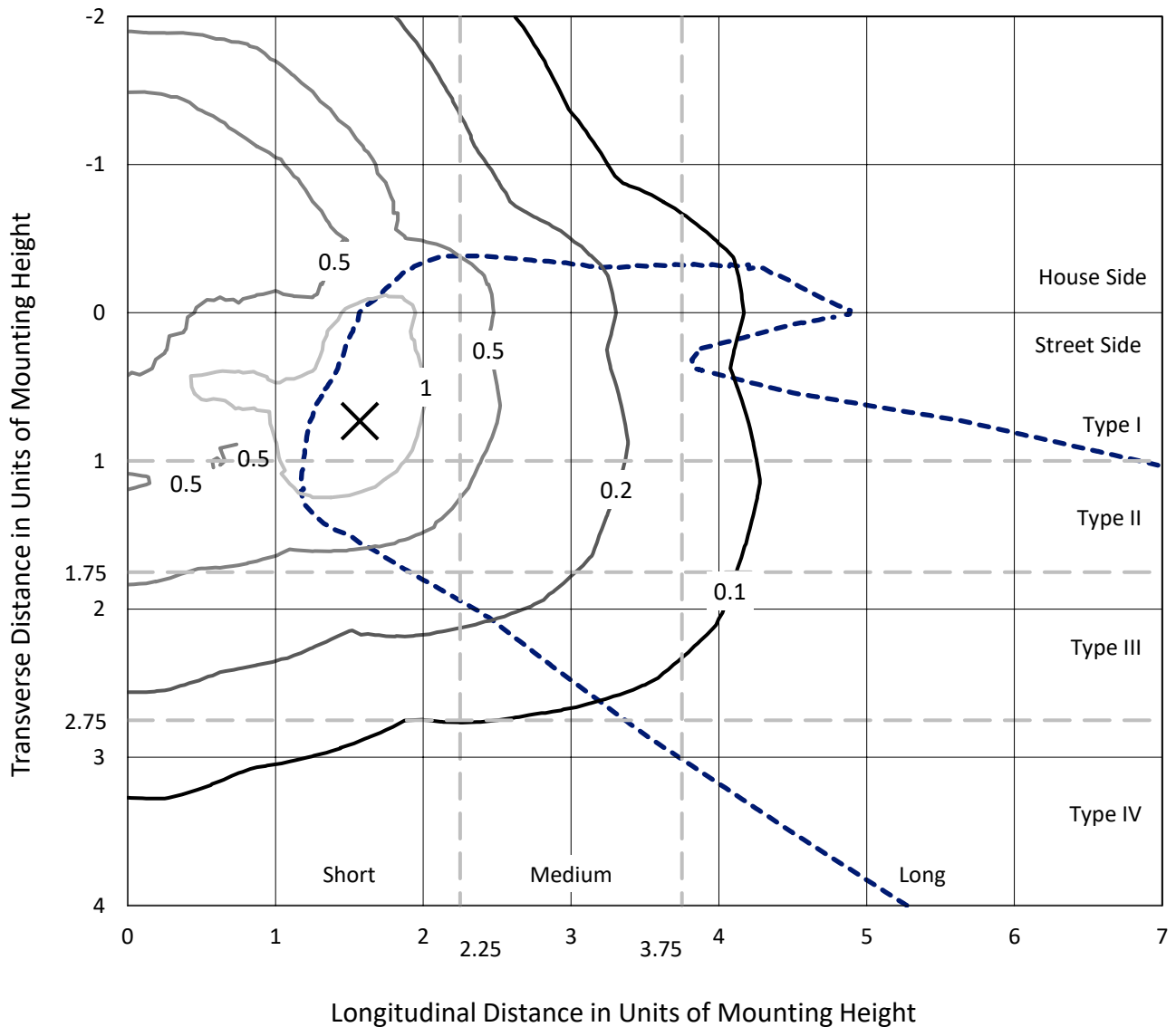
Input Watts (W): 124.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P588440
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Iso-Footcandle Lines of Horizontal Illumination

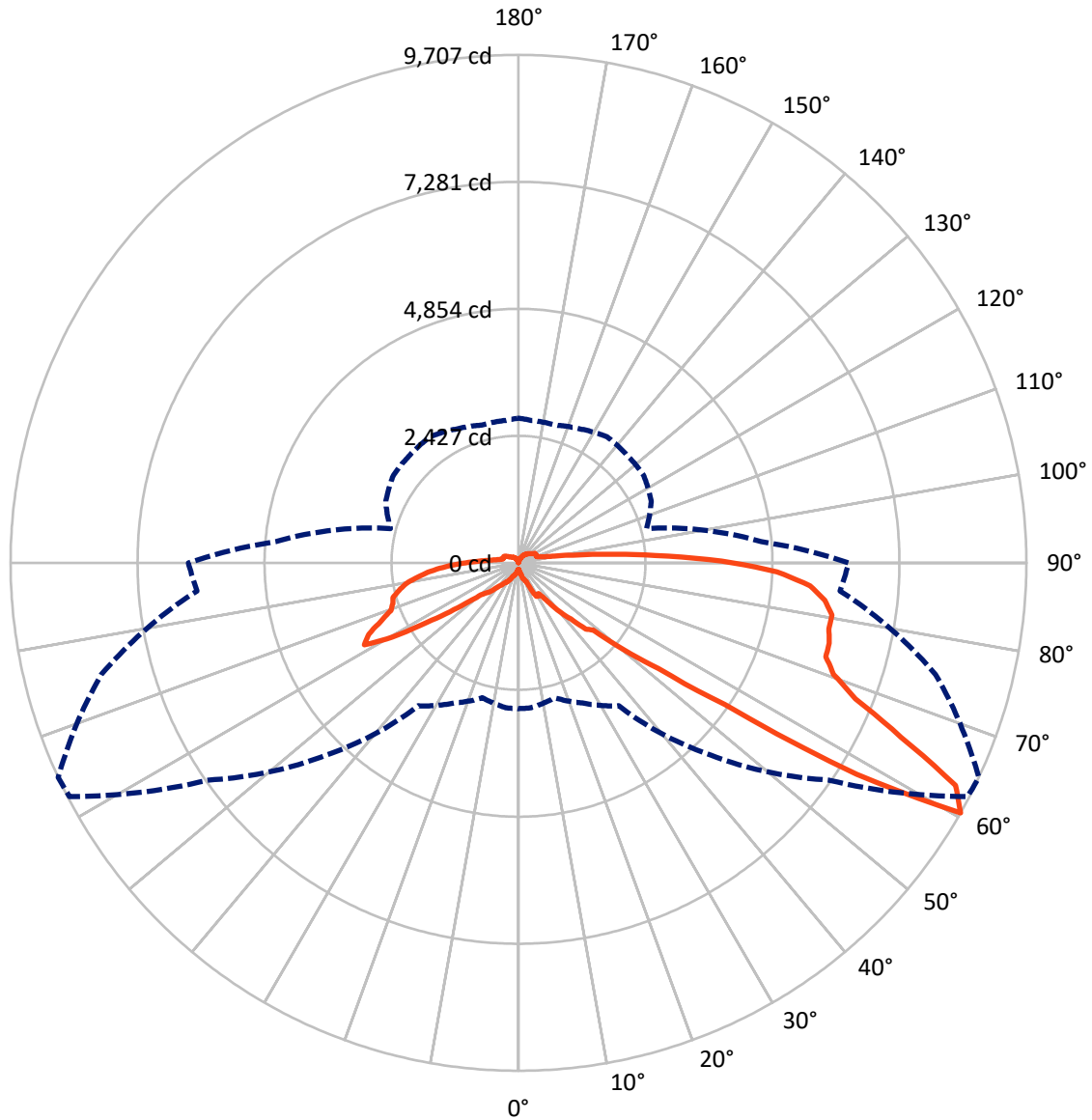
✕ Max cd
 - - - 1/2 Max cd



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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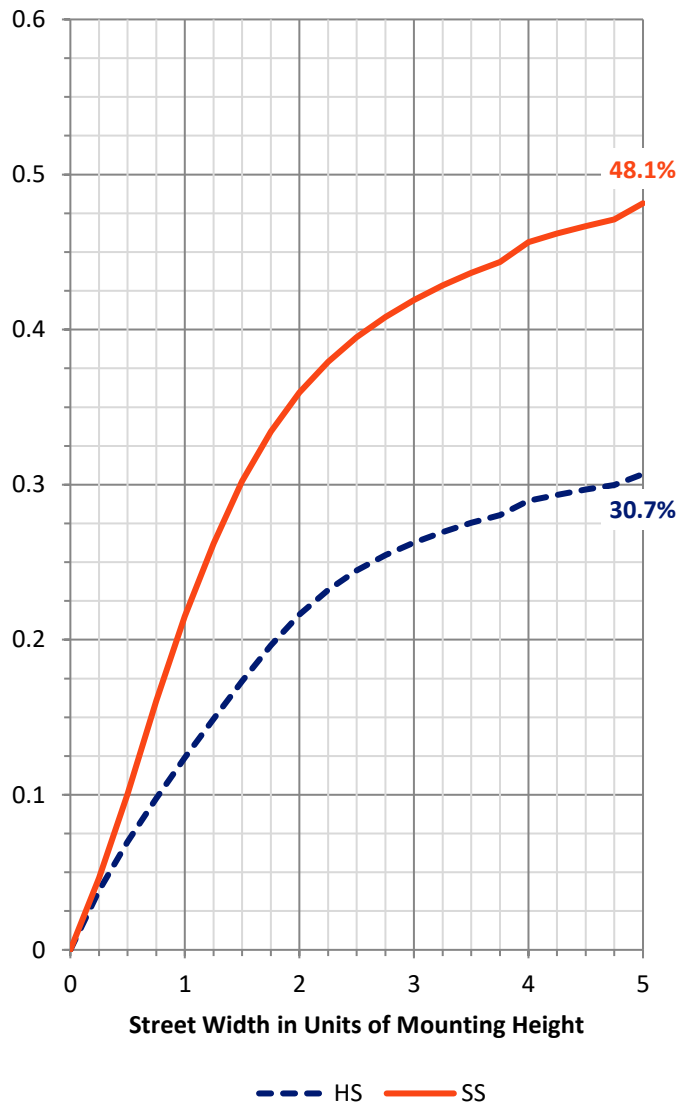
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5609.7 | 898.4 | 6508.1 |
| | % Fixture | 33.3 | 5.3 | 38.7 |
| Street Side | Lumens | 8974.9 | 1339.0 | 10313.9 |
| | % Fixture | 53.4 | 8.0 | 61.3 |
| Total | Lumens | 14584.6 | 2237.4 | 16822.0 |
| | % Fixture | 86.7 | 13.3 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 16.1 | 0.1 |
| 10°-20° | 71.8 | 0.4 |
| 20°-30° | 205.5 | 1.2 |
| 30°-40° | 442.5 | 2.6 |
| 40°-50° | 837.2 | 5.0 |
| 50°-60° | 2338.8 | 13.9 |
| 60°-70° | 4169.7 | 24.8 |
| 70°-80° | 3650.6 | 21.7 |
| 80°-90° | 2852.4 | 17.0 |
| 90°-100° | 1078.4 | 6.4 |
| 100°-110° | 370.9 | 2.2 |
| 110°-120° | 303.3 | 1.8 |
| 120°-130° | 203.8 | 1.2 |
| 130°-140° | 139.8 | 0.8 |
| 140°-150° | 87.9 | 0.5 |
| 150°-160° | 40.8 | 0.2 |
| 160°-170° | 11.5 | 0.1 |
| 170°-180° | 1.0 | 0.0 |
| 0°-90° | 14584.6 | 86.7 |
| 0°-180° | 16822.0 | 100.0 |

Coefficient of Utilization

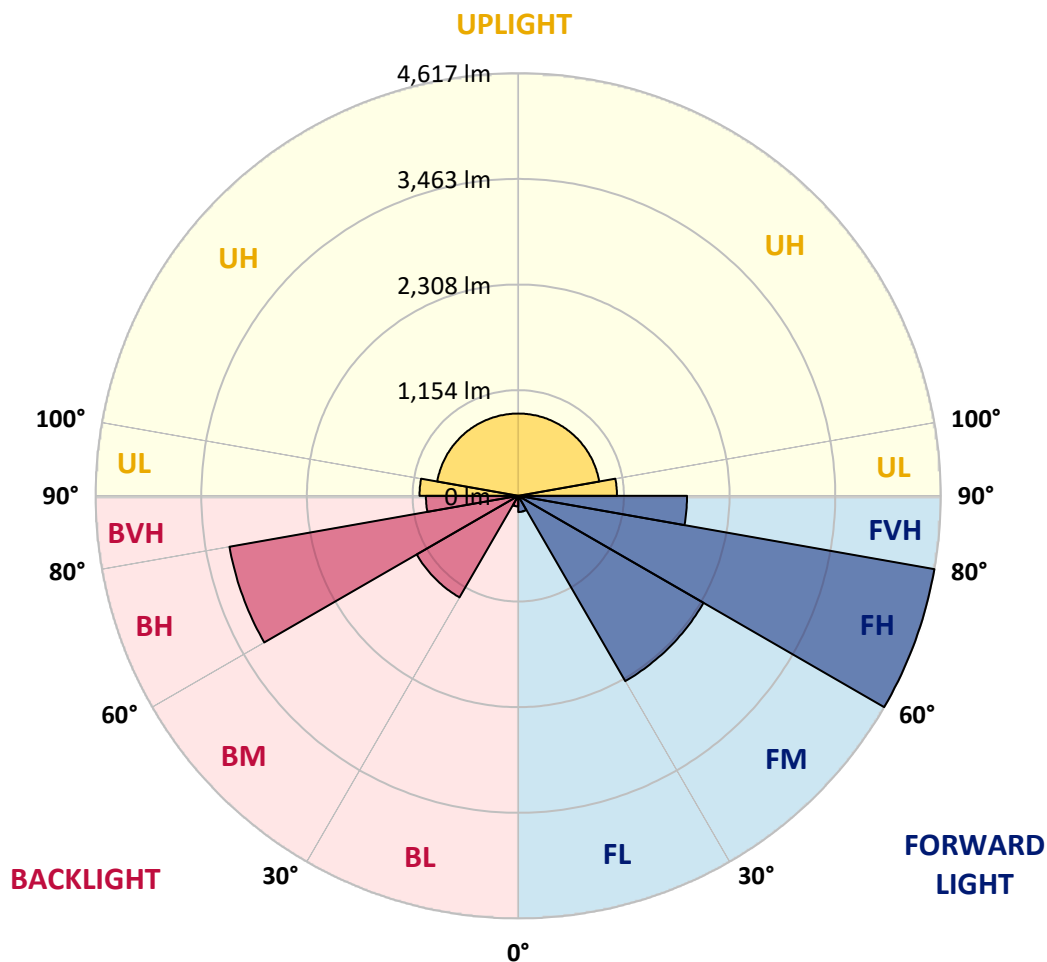


REPORT NUMBER: P588440
 CATALOG NUMBER: GAT-CA6-LED-130-760-U-33-5-X-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|---------|---------|
| | | | B | U | G |
| FL (0°-30°) | 177.2 | 1.1 | | | |
| FM (30°-60°) | 2337.2 | 13.9 | | | |
| FH (60°-80°) | 4616.7 | 27.4 | | | G2/5000 |
| FVH (80°-90°) | 1843.7 | 11.0 | | | G5 |
| BL (0°-30°) | 116.2 | 0.7 | B1/500 | | |
| BM (30°-60°) | 1281.3 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 3203.6 | 19.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 1008.7 | 6.0 | | | G5 |
| UL (90°-100°) | 1078.4 | 6.4 | | U5 | |
| UH (100°-180°) | 898.4 | 5.3 | | U4/1000 | |

BUG Rating: B4-U5-G5
 Type III Short





REPORT NUMBER: P588440
 CATALOG NUMBER: GAT-CA6-LED-130-760-U-33-5-X-X

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 62.5° | 65° | 75° | 85° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 128.7 | 128.7 | 128.7 | 128.7 | 128.7 | 128.7 | 128.7 | 128.7 | 128.7 | 128.7 | 128.7 |
| 2.5° | 148.3 | 143.9 | 139.6 | 139.6 | 137.4 | 135.2 | 135.2 | 130.9 | 133.0 | 130.9 | 130.9 |
| 5° | 174.5 | 172.3 | 167.9 | 170.1 | 165.8 | 163.6 | 163.6 | 161.4 | 159.2 | 157.0 | 150.5 |
| 7.5° | 202.8 | 202.8 | 205.0 | 207.2 | 200.6 | 194.1 | 191.9 | 187.6 | 187.6 | 185.4 | 181.0 |
| 10° | 233.4 | 231.2 | 222.5 | 222.5 | 218.1 | 213.7 | 215.9 | 213.7 | 213.7 | 213.7 | 205.0 |
| 12.5° | 242.1 | 239.9 | 233.4 | 233.4 | 233.4 | 231.2 | 239.9 | 237.7 | 239.9 | 237.7 | 224.6 |
| 15° | 272.6 | 270.4 | 268.3 | 270.4 | 279.2 | 296.6 | 318.4 | 309.7 | 311.9 | 307.5 | 259.5 |
| 17.5° | 285.7 | 292.2 | 296.6 | 298.8 | 307.5 | 307.5 | 311.9 | 309.7 | 318.4 | 325.0 | 296.6 |
| 20° | 331.5 | 327.1 | 331.5 | 346.8 | 368.6 | 370.8 | 364.2 | 364.2 | 368.6 | 370.8 | 316.2 |
| 22.5° | 351.1 | 349.0 | 366.4 | 353.3 | 353.3 | 364.2 | 403.5 | 390.4 | 390.4 | 386.0 | 340.2 |
| 25° | 455.8 | 464.5 | 482.0 | 503.8 | 556.1 | 571.4 | 615.0 | 567.0 | 573.6 | 506.0 | 431.8 |
| 27.5° | 547.4 | 554.0 | 656.5 | 748.1 | 789.5 | 767.7 | 804.8 | 715.4 | 724.1 | 732.8 | 630.3 |
| 30° | 575.8 | 588.9 | 737.2 | 804.8 | 859.3 | 815.7 | 863.7 | 745.9 | 739.3 | 789.5 | 748.1 |
| 32.5° | 554.0 | 567.0 | 724.1 | 752.4 | 809.1 | 970.5 | 909.5 | 719.7 | 700.1 | 724.1 | 774.2 |
| 35° | 608.5 | 617.2 | 711.0 | 643.4 | 695.7 | 1356.5 | 1190.8 | 839.7 | 800.4 | 667.4 | 741.5 |
| 37.5° | 730.6 | 730.6 | 841.8 | 889.8 | 929.1 | 1600.8 | 1563.7 | 1044.7 | 1014.1 | 780.8 | 857.1 |
| 40° | 885.5 | 881.1 | 1018.5 | 1051.2 | 1068.7 | 1450.3 | 1890.9 | 1332.6 | 1264.9 | 918.2 | 1116.6 |
| 42.5° | 979.2 | 970.5 | 1081.7 | 1116.6 | 1116.6 | 1227.9 | 2139.5 | 1622.6 | 1465.6 | 1070.8 | 1365.3 |
| 45° | 1016.3 | 1025.0 | 1169.0 | 1125.4 | 1158.1 | 1260.6 | 2405.6 | 2023.9 | 1803.6 | 1256.2 | 1583.4 |
| 47.5° | 920.4 | 933.4 | 1140.6 | 1145.0 | 979.2 | 1007.6 | 2157.0 | 2102.4 | 1921.4 | 1345.6 | 1653.2 |
| 50° | 1129.7 | 1138.5 | 1212.6 | 1162.4 | 1081.7 | 1275.9 | 2569.2 | 2702.2 | 2623.7 | 1666.2 | 1744.8 |
| 52.5° | 1550.7 | 1589.9 | 1659.7 | 1703.3 | 1679.3 | 2143.9 | 3445.9 | 3421.9 | 3356.5 | 2501.5 | 2381.6 |
| 55° | 2008.7 | 2041.4 | 2139.5 | 2403.4 | 2604.1 | 3210.4 | 4285.6 | 4787.2 | 4782.8 | 4063.1 | 3712.0 |
| 57.5° | 2425.2 | 2427.4 | 2440.5 | 2765.4 | 3075.1 | 4191.8 | 5613.8 | 7456.7 | 7622.4 | 6490.5 | 5315.0 |
| 60° | 2787.2 | 2780.7 | 2669.5 | 2959.5 | 3336.8 | 5197.2 | 7236.4 | 9674.7 | 9707.4 | 8252.7 | 6165.5 |
| 62.5° | 2885.4 | 2865.8 | 2704.4 | 2974.8 | 3297.6 | 5216.8 | 7650.8 | 9410.8 | 9373.7 | 8377.0 | 6276.8 |
| 65° | 2800.3 | 2780.7 | 2575.7 | 2817.8 | 2970.4 | 4741.4 | 7066.3 | 8093.5 | 8032.4 | 7652.9 | 5975.8 |
| 67.5° | 2673.8 | 2686.9 | 2484.1 | 2669.5 | 2774.2 | 4447.0 | 6451.2 | 6963.8 | 6946.3 | 7131.7 | 5725.0 |
| 70° | 2490.6 | 2501.5 | 2316.2 | 2545.2 | 2697.8 | 4259.4 | 5862.4 | 6418.5 | 6388.0 | 6660.6 | 5356.4 |
| 72.5° | 2497.2 | 2529.9 | 2309.6 | 2481.9 | 2641.1 | 4002.0 | 5596.3 | 6231.0 | 6141.5 | 6183.0 | 4913.7 |
| 75° | 2514.6 | 2558.3 | 2324.9 | 2479.7 | 2628.0 | 3908.3 | 5565.8 | 6246.2 | 6132.8 | 6010.7 | 4745.7 |
| 77.5° | 2521.2 | 2584.4 | 2333.6 | 2503.7 | 2632.4 | 3779.6 | 5496.0 | 6169.9 | 6063.0 | 5844.9 | 4547.3 |
| 80° | 2468.8 | 2536.4 | 2296.5 | 2505.9 | 2604.1 | 3524.4 | 5319.3 | 6156.8 | 6076.1 | 5823.1 | 4466.6 |
| 82.5° | 2364.1 | 2431.8 | 2224.6 | 2396.9 | 2549.5 | 3264.9 | 5070.7 | 5901.6 | 5897.3 | 5613.8 | 4296.5 |
| 85° | 2135.1 | 2209.3 | 2052.3 | 2211.5 | 2399.0 | 2920.3 | 4569.1 | 5467.6 | 5587.6 | 5358.6 | 4067.5 |
| 87.5° | 1914.9 | 1989.0 | 1906.1 | 1995.6 | 2185.3 | 2538.6 | 3925.7 | 4719.6 | 4944.2 | 4754.5 | 3493.9 |
| 90° | 1664.1 | 1740.4 | 1672.8 | 1637.9 | 1790.6 | 2026.1 | 3138.4 | 3670.5 | 3882.1 | 3766.5 | 2571.3 |
| 92.5° | 1332.6 | 1398.0 | 1334.7 | 1254.0 | 1345.6 | 1487.4 | 2331.4 | 2569.2 | 2619.3 | 2508.1 | 1685.9 |
| 95° | 1007.6 | 1055.6 | 998.9 | 918.2 | 929.1 | 1018.5 | 1607.4 | 1683.7 | 1670.6 | 1537.6 | 1070.8 |
| 97.5° | 700.1 | 728.4 | 691.4 | 634.7 | 654.3 | 711.0 | 1064.3 | 1055.6 | 1055.6 | 940.0 | 700.1 |
| 100° | 486.4 | 497.3 | 479.8 | 453.6 | 468.9 | 506.0 | 715.4 | 713.2 | 691.4 | 634.7 | 510.3 |
| 102.5° | 386.0 | 388.2 | 370.8 | 353.3 | 344.6 | 379.5 | 516.9 | 514.7 | 519.1 | 492.9 | 399.1 |
| 105° | 340.2 | 338.0 | 322.8 | 307.5 | 290.1 | 325.0 | 410.0 | 427.5 | 425.3 | 403.5 | 342.4 |
| 107.5° | 311.9 | 309.7 | 294.4 | 281.3 | 266.1 | 296.6 | 355.5 | 379.5 | 377.3 | 375.1 | 322.8 |
| 110° | 290.1 | 287.9 | 274.8 | 261.7 | 248.6 | 283.5 | 333.7 | 370.8 | 370.8 | 370.8 | 327.1 |



REPORT NUMBER: P588440
 CATALOG NUMBER: GAT-CA6-LED-130-760-U-33-5-X-X

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 62.5° | 65° | 75° | 85° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 274.8 | 274.8 | 263.9 | 253.0 | 242.1 | 281.3 | 320.6 | 364.2 | 364.2 | 375.1 | 342.4 |
| 115° | 266.1 | 263.9 | 255.2 | 248.6 | 239.9 | 283.5 | 316.2 | 359.9 | 362.0 | 377.3 | 340.2 |
| 117.5° | 259.5 | 257.4 | 250.8 | 242.1 | 237.7 | 279.2 | 318.4 | 368.6 | 366.4 | 390.4 | 333.7 |
| 120° | 248.6 | 244.3 | 235.5 | 226.8 | 222.5 | 257.4 | 309.7 | 357.7 | 353.3 | 364.2 | 307.5 |
| 122.5° | 239.9 | 226.8 | 211.6 | 205.0 | 205.0 | 233.4 | 290.1 | 322.8 | 318.4 | 309.7 | 277.0 |
| 125° | 220.3 | 207.2 | 194.1 | 191.9 | 194.1 | 218.1 | 277.0 | 296.6 | 298.8 | 292.2 | 261.7 |
| 127.5° | 198.5 | 189.7 | 183.2 | 183.2 | 187.6 | 213.7 | 272.6 | 285.7 | 285.7 | 272.6 | 248.6 |
| 130° | 187.6 | 185.4 | 181.0 | 181.0 | 189.7 | 215.9 | 266.1 | 270.4 | 270.4 | 253.0 | 242.1 |
| 132.5° | 183.2 | 178.8 | 174.5 | 174.5 | 183.2 | 209.4 | 248.6 | 257.4 | 255.2 | 237.7 | 229.0 |
| 135° | 174.5 | 172.3 | 167.9 | 167.9 | 178.8 | 205.0 | 233.4 | 242.1 | 239.9 | 218.1 | 211.6 |
| 137.5° | 170.1 | 165.8 | 165.8 | 165.8 | 176.7 | 202.8 | 220.3 | 226.8 | 224.6 | 202.8 | 196.3 |
| 140° | 163.6 | 161.4 | 157.0 | 157.0 | 172.3 | 196.3 | 207.2 | 209.4 | 207.2 | 189.7 | 183.2 |
| 142.5° | 152.7 | 150.5 | 148.3 | 152.7 | 167.9 | 185.4 | 194.1 | 194.1 | 191.9 | 181.0 | 172.3 |
| 145° | 146.1 | 143.9 | 141.8 | 152.7 | 165.8 | 174.5 | 183.2 | 176.7 | 176.7 | 170.1 | 161.4 |
| 147.5° | 139.6 | 137.4 | 137.4 | 146.1 | 157.0 | 157.0 | 163.6 | 161.4 | 163.6 | 161.4 | 152.7 |
| 150° | 126.5 | 124.3 | 124.3 | 130.9 | 133.0 | 133.0 | 139.6 | 139.6 | 139.6 | 139.6 | 133.0 |
| 152.5° | 111.2 | 109.0 | 111.2 | 113.4 | 113.4 | 113.4 | 117.8 | 120.0 | 120.0 | 117.8 | 115.6 |
| 155° | 96.0 | 96.0 | 96.0 | 98.1 | 98.1 | 96.0 | 102.5 | 102.5 | 102.5 | 102.5 | 100.3 |
| 157.5° | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 82.9 | 87.2 | 87.2 | 89.4 | 87.2 | 87.2 |
| 160° | 74.2 | 72.0 | 72.0 | 72.0 | 72.0 | 69.8 | 72.0 | 72.0 | 72.0 | 74.2 | 74.2 |
| 162.5° | 58.9 | 56.7 | 56.7 | 56.7 | 56.7 | 52.3 | 56.7 | 54.5 | 56.7 | 56.7 | 58.9 |
| 165° | 48.0 | 45.8 | 45.8 | 45.8 | 43.6 | 41.4 | 43.6 | 41.4 | 41.4 | 41.4 | 43.6 |
| 167.5° | 37.1 | 37.1 | 34.9 | 37.1 | 34.9 | 30.5 | 30.5 | 28.4 | 28.4 | 28.4 | 28.4 |
| 170° | 28.4 | 26.2 | 24.0 | 26.2 | 24.0 | 19.6 | 19.6 | 17.4 | 17.4 | 15.3 | 15.3 |
| 172.5° | 19.6 | 17.4 | 15.3 | 17.4 | 15.3 | 10.9 | 10.9 | 6.5 | 6.5 | 6.5 | 6.5 |
| 175° | 17.4 | 15.3 | 13.1 | 15.3 | 13.1 | 8.7 | 6.5 | 4.4 | 4.4 | 4.4 | 4.4 |
| 177.5° | 17.4 | 15.3 | 13.1 | 15.3 | 13.1 | 8.7 | 6.5 | 4.4 | 4.4 | 4.4 | 4.4 |
| 180° | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 |



REPORT NUMBER: P588440
 CATALOG NUMBER: GAT-CA6-LED-130-760-U-33-5-X-X

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 128.7 | 128.7 | 128.7 | 128.7 | 128.7 | 128.7 | 128.7 | 128.7 | 128.7 | 128.7 | 128.7 |
| 2.5° | 130.9 | 128.7 | 126.5 | 130.9 | 128.7 | 130.9 | 133.0 | 135.2 | 135.2 | 133.0 | 133.0 |
| 5° | 150.5 | 148.3 | 143.9 | 141.8 | 137.4 | 137.4 | 137.4 | 141.8 | 141.8 | 139.6 | 141.8 |
| 7.5° | 178.8 | 174.5 | 167.9 | 163.6 | 157.0 | 157.0 | 154.8 | 159.2 | 161.4 | 157.0 | 159.2 |
| 10° | 200.6 | 198.5 | 189.7 | 183.2 | 176.7 | 174.5 | 174.5 | 176.7 | 176.7 | 174.5 | 174.5 |
| 12.5° | 220.3 | 215.9 | 207.2 | 200.6 | 191.9 | 189.7 | 189.7 | 191.9 | 191.9 | 189.7 | 189.7 |
| 15° | 248.6 | 235.5 | 226.8 | 220.3 | 211.6 | 209.4 | 207.2 | 209.4 | 211.6 | 207.2 | 207.2 |
| 17.5° | 287.9 | 272.6 | 253.0 | 235.5 | 226.8 | 231.2 | 233.4 | 235.5 | 233.4 | 226.8 | 226.8 |
| 20° | 309.7 | 301.0 | 274.8 | 261.7 | 250.8 | 250.8 | 250.8 | 250.8 | 250.8 | 248.6 | 250.8 |
| 22.5° | 325.0 | 311.9 | 279.2 | 270.4 | 263.9 | 268.3 | 272.6 | 274.8 | 274.8 | 272.6 | 272.6 |
| 25° | 394.8 | 346.8 | 314.1 | 307.5 | 298.8 | 301.0 | 296.6 | 296.6 | 298.8 | 296.6 | 301.0 |
| 27.5° | 543.1 | 464.5 | 390.4 | 364.2 | 357.7 | 357.7 | 362.0 | 362.0 | 362.0 | 362.0 | 359.9 |
| 30° | 652.1 | 560.5 | 438.4 | 403.5 | 399.1 | 418.7 | 429.6 | 438.4 | 434.0 | 427.5 | 427.5 |
| 32.5° | 669.6 | 569.2 | 447.1 | 434.0 | 444.9 | 460.2 | 471.1 | 477.6 | 484.2 | 482.0 | 479.8 |
| 35° | 632.5 | 525.6 | 440.6 | 458.0 | 466.7 | 475.4 | 477.6 | 473.3 | 492.9 | 501.6 | 503.8 |
| 37.5° | 706.6 | 588.9 | 512.5 | 525.6 | 514.7 | 506.0 | 510.3 | 512.5 | 538.7 | 551.8 | 564.9 |
| 40° | 902.9 | 711.0 | 582.3 | 575.8 | 569.2 | 588.9 | 615.0 | 628.1 | 625.9 | 617.2 | 619.4 |
| 42.5° | 1092.7 | 830.9 | 656.5 | 654.3 | 652.1 | 687.0 | 728.4 | 726.3 | 706.6 | 691.4 | 691.4 |
| 45° | 1286.8 | 946.5 | 774.2 | 776.4 | 772.1 | 785.1 | 796.0 | 787.3 | 789.5 | 793.9 | 798.2 |
| 47.5° | 1406.7 | 1051.2 | 848.4 | 841.8 | 813.5 | 839.7 | 870.2 | 850.6 | 844.0 | 833.1 | 837.5 |
| 50° | 1435.1 | 1077.4 | 892.0 | 940.0 | 913.8 | 894.2 | 861.5 | 848.4 | 872.4 | 889.8 | 902.9 |
| 52.5° | 1864.7 | 1330.4 | 1114.5 | 1190.8 | 1155.9 | 1086.1 | 1079.6 | 1057.8 | 1083.9 | 1086.1 | 1101.4 |
| 55° | 3125.3 | 2133.0 | 1535.4 | 1609.5 | 1611.7 | 1587.7 | 1696.8 | 1635.7 | 1581.2 | 1557.2 | 1548.5 |
| 57.5° | 4926.8 | 3297.6 | 1986.8 | 2080.6 | 2170.0 | 2255.1 | 2403.4 | 2279.1 | 2122.1 | 2102.4 | 2124.2 |
| 60° | 6309.5 | 4656.3 | 2534.3 | 2798.2 | 2918.1 | 2922.5 | 2942.1 | 2820.0 | 2724.0 | 2732.7 | 2763.3 |
| 62.5° | 6606.1 | 5790.4 | 3227.8 | 3336.8 | 3347.8 | 3267.1 | 3302.0 | 3380.5 | 3245.2 | 3138.4 | 3166.7 |
| 65° | 6407.6 | 6239.7 | 3454.6 | 3171.1 | 3153.6 | 3166.7 | 3404.5 | 3622.6 | 3349.9 | 3079.5 | 3079.5 |
| 67.5° | 6023.8 | 5897.3 | 3223.4 | 2852.7 | 2900.7 | 3049.0 | 3349.9 | 3459.0 | 3168.9 | 2881.0 | 2881.0 |
| 70° | 5613.8 | 5360.8 | 2963.9 | 2599.7 | 2717.5 | 2889.8 | 3086.0 | 3094.8 | 2924.6 | 2719.6 | 2706.6 |
| 72.5° | 5171.0 | 4942.0 | 2852.7 | 2525.5 | 2580.1 | 2610.6 | 2717.5 | 2785.1 | 2765.4 | 2632.4 | 2630.2 |
| 75° | 5040.2 | 4854.8 | 2850.5 | 2490.6 | 2457.9 | 2447.0 | 2521.2 | 2667.3 | 2734.9 | 2656.4 | 2660.8 |
| 77.5° | 4841.7 | 4730.5 | 2717.5 | 2344.5 | 2309.6 | 2309.6 | 2348.9 | 2466.7 | 2569.2 | 2536.4 | 2547.3 |
| 80° | 4704.3 | 4536.4 | 2514.6 | 2185.3 | 2137.3 | 2143.9 | 2148.2 | 2228.9 | 2324.9 | 2329.3 | 2329.3 |
| 82.5° | 4440.4 | 4124.2 | 2207.1 | 1947.6 | 1914.9 | 1923.6 | 1908.3 | 1954.1 | 1980.3 | 2013.0 | 2006.5 |
| 85° | 4006.4 | 3559.3 | 1864.7 | 1688.1 | 1635.7 | 1618.3 | 1605.2 | 1607.4 | 1622.6 | 1616.1 | 1589.9 |
| 87.5° | 3356.5 | 2822.1 | 1487.4 | 1384.9 | 1323.8 | 1280.2 | 1262.8 | 1241.0 | 1238.8 | 1214.8 | 1223.5 |
| 90° | 2477.6 | 1936.7 | 1103.6 | 1066.5 | 1022.9 | 977.1 | 953.1 | 931.3 | 913.8 | 889.8 | 881.1 |
| 92.5° | 1616.1 | 1247.5 | 807.0 | 787.3 | 759.0 | 732.8 | 721.9 | 711.0 | 706.6 | 687.0 | 693.5 |
| 95° | 1009.8 | 844.0 | 606.3 | 584.5 | 569.2 | 562.7 | 564.9 | 567.0 | 562.7 | 540.9 | 547.4 |
| 97.5° | 673.9 | 610.7 | 473.3 | 458.0 | 442.7 | 440.6 | 442.7 | 447.1 | 449.3 | 434.0 | 438.4 |
| 100° | 497.3 | 468.9 | 388.2 | 377.3 | 364.2 | 359.9 | 362.0 | 366.4 | 368.6 | 355.5 | 357.7 |
| 102.5° | 394.8 | 381.7 | 335.9 | 331.5 | 316.2 | 311.9 | 316.2 | 318.4 | 320.6 | 311.9 | 311.9 |
| 105° | 346.8 | 346.8 | 309.7 | 307.5 | 296.6 | 292.2 | 294.4 | 296.6 | 298.8 | 290.1 | 290.1 |
| 107.5° | 333.7 | 335.9 | 298.8 | 301.0 | 294.4 | 292.2 | 296.6 | 301.0 | 298.8 | 292.2 | 290.1 |
| 110° | 344.6 | 349.0 | 298.8 | 305.3 | 307.5 | 311.9 | 320.6 | 322.8 | 322.8 | 318.4 | 320.6 |



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| 112.5° | 355.5 | 362.0 | 294.4 | 309.7 | 325.0 | 335.9 | 351.1 | 359.9 | 355.5 | 353.3 | 355.5 |
| 115° | 346.8 | 351.1 | 274.8 | 298.8 | 327.1 | 342.4 | 346.8 | 346.8 | 335.9 | 335.9 | 338.0 |
| 117.5° | 335.9 | 344.6 | 255.2 | 274.8 | 294.4 | 307.5 | 305.3 | 298.8 | 285.7 | 281.3 | 294.4 |
| 120° | 311.9 | 338.0 | 244.3 | 248.6 | 250.8 | 255.2 | 248.6 | 242.1 | 231.2 | 229.0 | 237.7 |
| 122.5° | 287.9 | 311.9 | 224.6 | 220.3 | 218.1 | 218.1 | 215.9 | 213.7 | 207.2 | 209.4 | 218.1 |
| 125° | 268.3 | 281.3 | 205.0 | 198.5 | 196.3 | 198.5 | 198.5 | 198.5 | 194.1 | 189.7 | 189.7 |
| 127.5° | 253.0 | 257.4 | 194.1 | 185.4 | 183.2 | 183.2 | 183.2 | 185.4 | 183.2 | 176.7 | 176.7 |
| 130° | 244.3 | 242.1 | 187.6 | 172.3 | 170.1 | 172.3 | 172.3 | 174.5 | 170.1 | 165.8 | 165.8 |
| 132.5° | 226.8 | 222.5 | 178.8 | 163.6 | 161.4 | 163.6 | 163.6 | 163.6 | 159.2 | 154.8 | 154.8 |
| 135° | 207.2 | 202.8 | 167.9 | 152.7 | 150.5 | 152.7 | 152.7 | 154.8 | 150.5 | 146.1 | 146.1 |
| 137.5° | 191.9 | 187.6 | 157.0 | 143.9 | 141.8 | 141.8 | 143.9 | 143.9 | 141.8 | 137.4 | 137.4 |
| 140° | 178.8 | 174.5 | 146.1 | 135.2 | 130.9 | 133.0 | 133.0 | 133.0 | 130.9 | 126.5 | 126.5 |
| 142.5° | 167.9 | 165.8 | 135.2 | 124.3 | 120.0 | 122.1 | 122.1 | 124.3 | 120.0 | 115.6 | 115.6 |
| 145° | 159.2 | 154.8 | 126.5 | 113.4 | 111.2 | 111.2 | 111.2 | 113.4 | 109.0 | 104.7 | 104.7 |
| 147.5° | 150.5 | 146.1 | 115.6 | 102.5 | 100.3 | 100.3 | 100.3 | 100.3 | 98.1 | 93.8 | 91.6 |
| 150° | 133.0 | 130.9 | 106.9 | 93.8 | 89.4 | 89.4 | 89.4 | 87.2 | 82.9 | 78.5 | 78.5 |
| 152.5° | 113.4 | 111.2 | 93.8 | 82.9 | 78.5 | 78.5 | 76.3 | 76.3 | 72.0 | 69.8 | 67.6 |
| 155° | 98.1 | 98.1 | 85.1 | 74.2 | 69.8 | 67.6 | 65.4 | 65.4 | 63.2 | 61.1 | 58.9 |
| 157.5° | 87.2 | 85.1 | 76.3 | 67.6 | 58.9 | 58.9 | 56.7 | 56.7 | 54.5 | 52.3 | 50.2 |
| 160° | 74.2 | 74.2 | 65.4 | 56.7 | 50.2 | 48.0 | 48.0 | 45.8 | 43.6 | 41.4 | 41.4 |
| 162.5° | 58.9 | 58.9 | 52.3 | 45.8 | 39.3 | 39.3 | 37.1 | 37.1 | 34.9 | 32.7 | 30.5 |
| 165° | 41.4 | 41.4 | 39.3 | 34.9 | 30.5 | 28.4 | 28.4 | 28.4 | 26.2 | 24.0 | 24.0 |
| 167.5° | 28.4 | 28.4 | 26.2 | 24.0 | 21.8 | 19.6 | 21.8 | 21.8 | 19.6 | 17.4 | 17.4 |
| 170° | 15.3 | 15.3 | 13.1 | 13.1 | 10.9 | 10.9 | 13.1 | 15.3 | 13.1 | 10.9 | 8.7 |
| 172.5° | 6.5 | 6.5 | 6.5 | 6.5 | 4.4 | 6.5 | 8.7 | 10.9 | 8.7 | 6.5 | 6.5 |
| 175° | 4.4 | 4.4 | 6.5 | 6.5 | 4.4 | 6.5 | 8.7 | 10.9 | 8.7 | 6.5 | 6.5 |
| 177.5° | 4.4 | 4.4 | 6.5 | 6.5 | 4.4 | 6.5 | 8.7 | 10.9 | 8.7 | 6.5 | 6.5 |
| 180° | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 |

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