

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: P588436

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

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588436
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-130-750-U-33-5-X-X
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR
Light Source: (6) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17186 lumens
Efficiency: N/A
Efficacy: 138.3 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

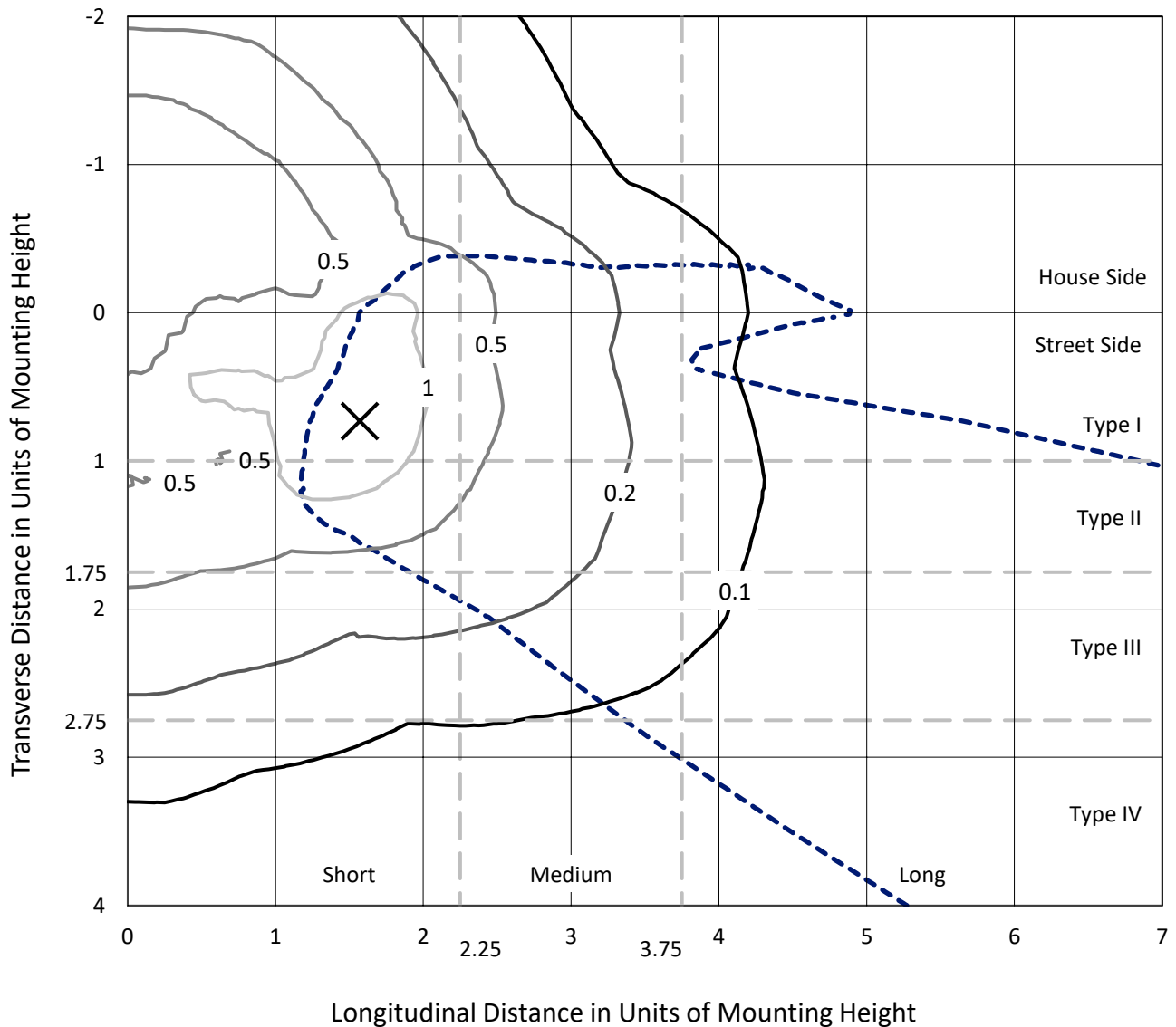
Input Watts (W): 124.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P588436
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Iso-Footcandle Lines of Horizontal Illumination

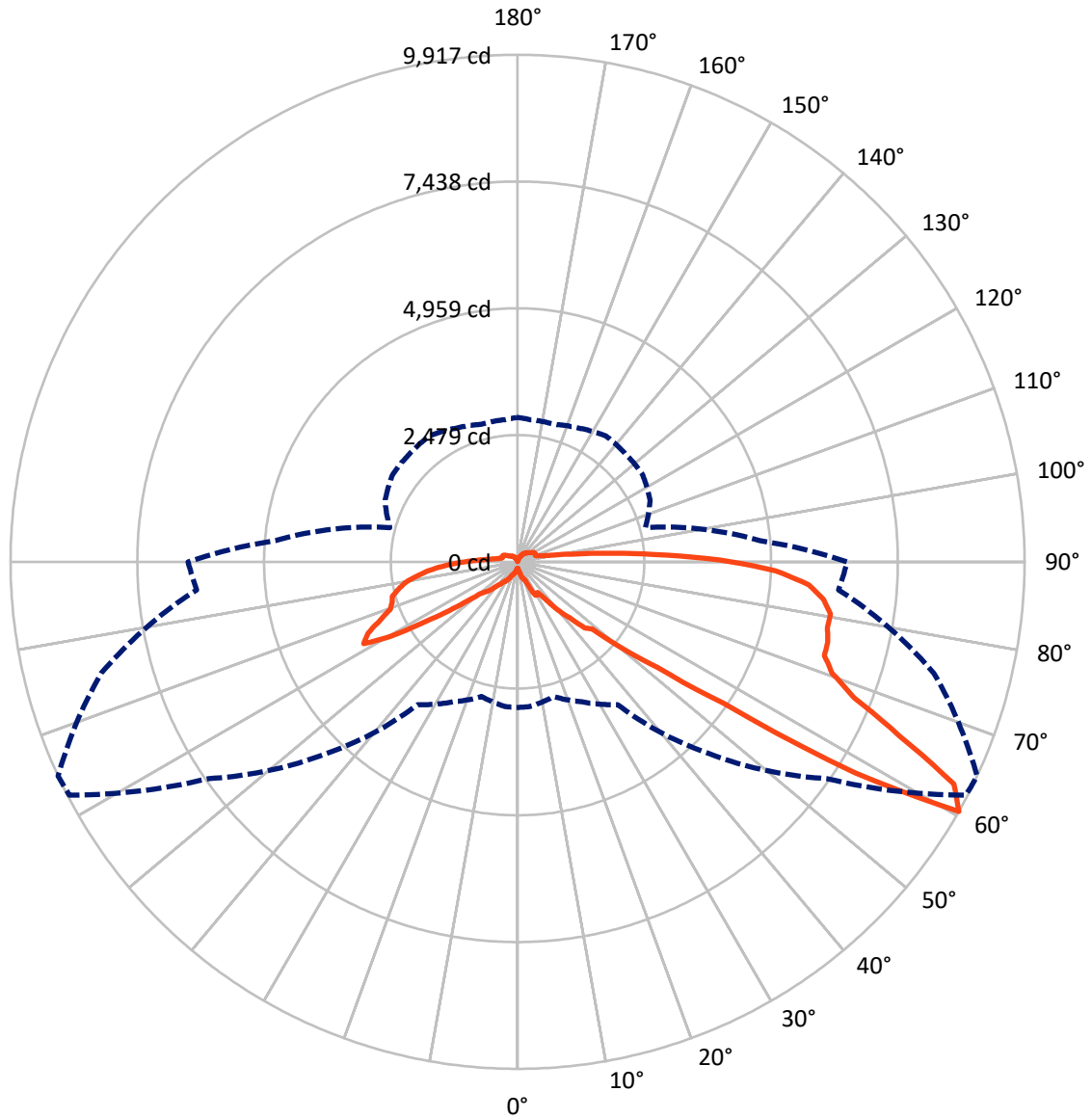
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P588436
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Luminous Intensity Polar Plot



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

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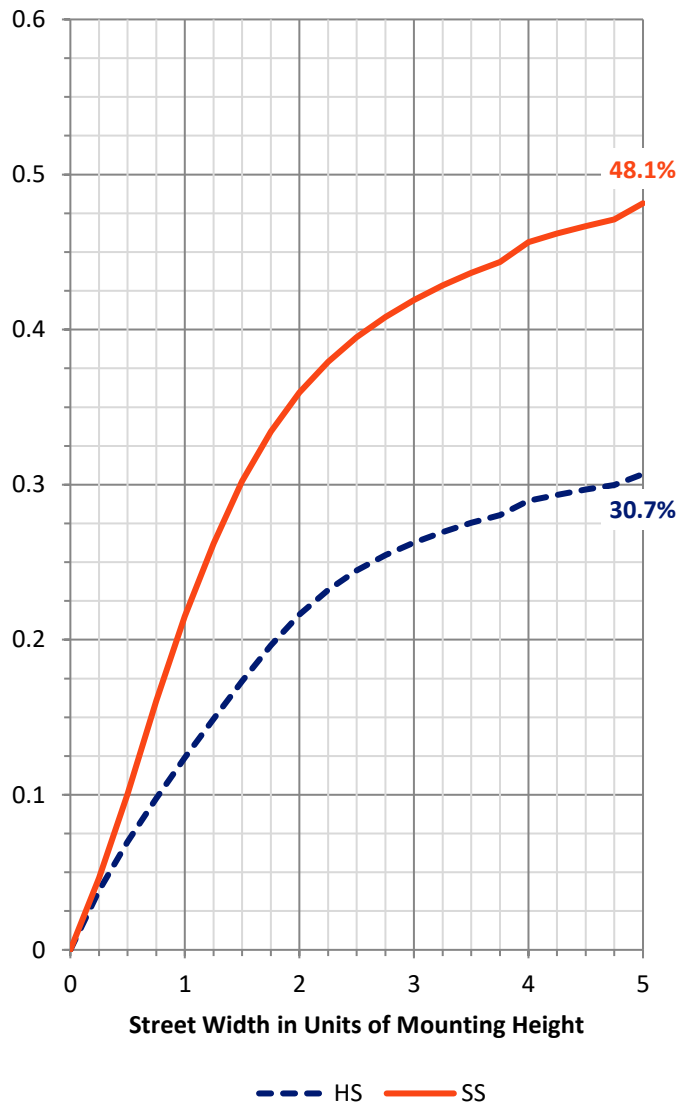
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5731.1 | 917.8 | 6648.9 |
| | % Fixture | 33.3 | 5.3 | 38.7 |
| Street Side | Lumens | 9169.1 | 1368.0 | 10537.1 |
| | % Fixture | 53.4 | 8.0 | 61.3 |
| Total | Lumens | 14900.2 | 2285.8 | 17186.0 |
| | % Fixture | 86.7 | 13.3 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 16.5 | 0.1 |
| 10°-20° | 73.4 | 0.4 |
| 20°-30° | 209.9 | 1.2 |
| 30°-40° | 452.0 | 2.6 |
| 40°-50° | 855.3 | 5.0 |
| 50°-60° | 2389.4 | 13.9 |
| 60°-70° | 4259.9 | 24.8 |
| 70°-80° | 3729.6 | 21.7 |
| 80°-90° | 2914.1 | 17.0 |
| 90°-100° | 1101.7 | 6.4 |
| 100°-110° | 378.9 | 2.2 |
| 110°-120° | 309.8 | 1.8 |
| 120°-130° | 208.2 | 1.2 |
| 130°-140° | 142.9 | 0.8 |
| 140°-150° | 89.8 | 0.5 |
| 150°-160° | 41.7 | 0.2 |
| 160°-170° | 11.8 | 0.1 |
| 170°-180° | 1.0 | 0.0 |
| 0°-90° | 14900.2 | 86.7 |
| 0°-180° | 17186.0 | 100.0 |

Coefficient of Utilization

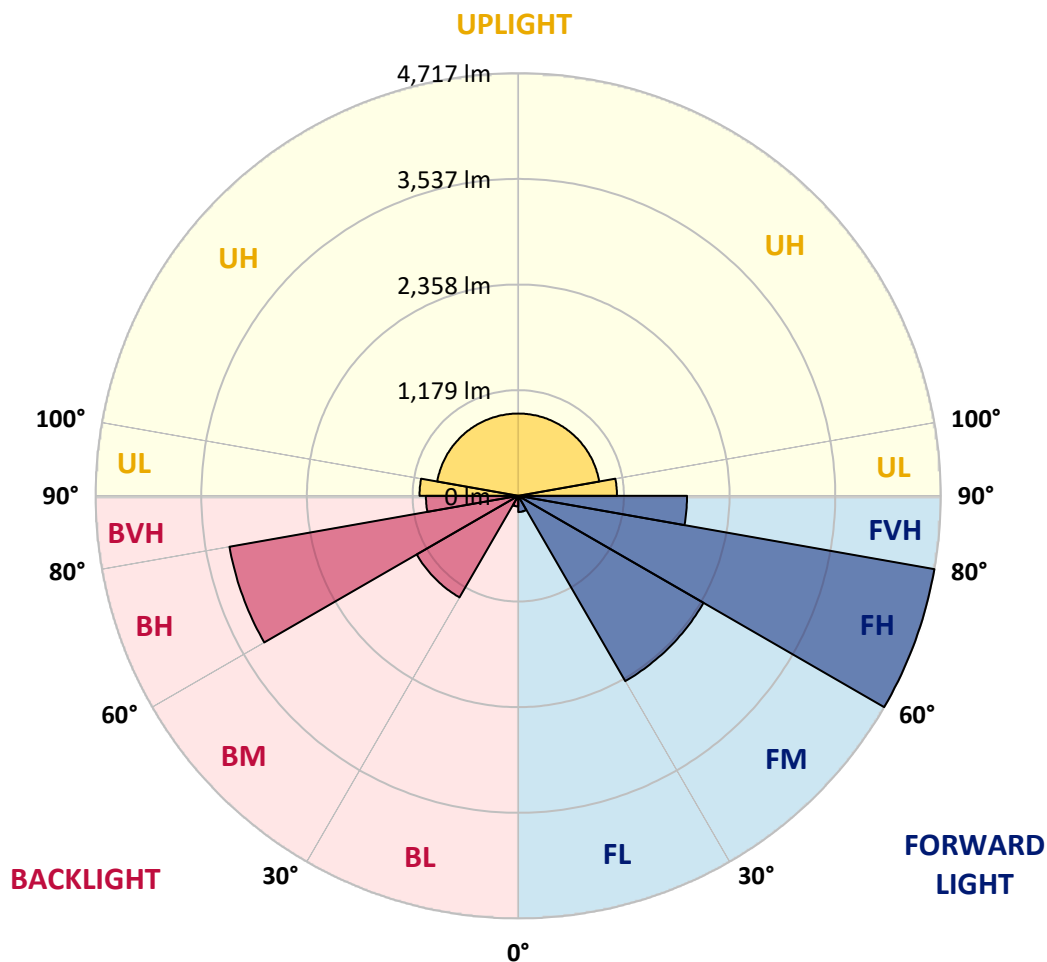


REPORT NUMBER: P588436
 CATALOG NUMBER: GAT-CA6-LED-130-750-U-33-5-X-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|---------|---------|
| | | | B | U | G |
| FL (0°-30°) | 181.1 | 1.1 | | | |
| FM (30°-60°) | 2387.8 | 13.9 | | | |
| FH (60°-80°) | 4716.6 | 27.4 | | | G2/5000 |
| FVH (80°-90°) | 1883.6 | 11.0 | | | G5 |
| BL (0°-30°) | 118.7 | 0.7 | B1/500 | | |
| BM (30°-60°) | 1309.0 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 3272.9 | 19.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 1030.5 | 6.0 | | | G5 |
| UL (90°-100°) | 1101.7 | 6.4 | | U5 | |
| UH (100°-180°) | 917.8 | 5.3 | | U4/1000 | |

BUG Rating: B4-U5-G5
 Type III Short





REPORT NUMBER: P588436
 CATALOG NUMBER: GAT-CA6-LED-130-750-U-33-5-X-X

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 62.5° | 65° | 75° | 85° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 131.5 | 131.5 | 131.5 | 131.5 | 131.5 | 131.5 | 131.5 | 131.5 | 131.5 | 131.5 | 131.5 |
| 2.5° | 151.5 | 147.1 | 142.6 | 142.6 | 140.4 | 138.1 | 138.1 | 133.7 | 135.9 | 133.7 | 133.7 |
| 5° | 178.3 | 176.0 | 171.6 | 173.8 | 169.3 | 167.1 | 167.1 | 164.9 | 162.7 | 160.4 | 153.7 |
| 7.5° | 207.2 | 207.2 | 209.4 | 211.7 | 205.0 | 198.3 | 196.1 | 191.6 | 191.6 | 189.4 | 184.9 |
| 10° | 238.4 | 236.2 | 227.3 | 227.3 | 222.8 | 218.4 | 220.6 | 218.4 | 218.4 | 218.4 | 209.4 |
| 12.5° | 247.3 | 245.1 | 238.4 | 238.4 | 238.4 | 236.2 | 245.1 | 242.9 | 245.1 | 242.9 | 229.5 |
| 15° | 278.5 | 276.3 | 274.1 | 276.3 | 285.2 | 303.0 | 325.3 | 316.4 | 318.6 | 314.2 | 265.1 |
| 17.5° | 291.9 | 298.6 | 303.0 | 305.3 | 314.2 | 314.2 | 318.6 | 316.4 | 325.3 | 332.0 | 303.0 |
| 20° | 338.7 | 334.2 | 338.7 | 354.3 | 376.6 | 378.8 | 372.1 | 372.1 | 376.6 | 378.8 | 323.1 |
| 22.5° | 358.7 | 356.5 | 374.3 | 361.0 | 361.0 | 372.1 | 412.2 | 398.8 | 398.8 | 394.4 | 347.6 |
| 25° | 465.7 | 474.6 | 492.4 | 514.7 | 568.2 | 583.8 | 628.3 | 579.3 | 586.0 | 516.9 | 441.2 |
| 27.5° | 559.3 | 565.9 | 670.7 | 764.3 | 806.6 | 784.3 | 822.2 | 730.8 | 739.7 | 748.7 | 643.9 |
| 30° | 588.2 | 601.6 | 753.1 | 822.2 | 877.9 | 833.3 | 882.3 | 762.0 | 755.3 | 806.6 | 764.3 |
| 32.5° | 565.9 | 579.3 | 739.7 | 768.7 | 826.6 | 991.5 | 929.1 | 735.3 | 715.2 | 739.7 | 791.0 |
| 35° | 621.7 | 630.6 | 726.4 | 657.3 | 710.8 | 1385.9 | 1216.6 | 857.8 | 817.7 | 681.8 | 757.6 |
| 37.5° | 746.4 | 746.4 | 860.1 | 909.1 | 949.2 | 1635.5 | 1597.6 | 1067.3 | 1036.1 | 797.7 | 875.7 |
| 40° | 904.6 | 900.2 | 1040.5 | 1074.0 | 1091.8 | 1481.7 | 1931.8 | 1361.4 | 1292.3 | 938.0 | 1140.8 |
| 42.5° | 1000.4 | 991.5 | 1105.2 | 1140.8 | 1140.8 | 1254.4 | 2185.8 | 1657.7 | 1497.3 | 1094.0 | 1394.8 |
| 45° | 1038.3 | 1047.2 | 1194.3 | 1149.7 | 1183.1 | 1287.9 | 2457.6 | 2067.7 | 1842.7 | 1283.4 | 1617.6 |
| 47.5° | 940.3 | 953.6 | 1165.3 | 1169.8 | 1000.4 | 1029.4 | 2203.6 | 2147.9 | 1963.0 | 1374.8 | 1688.9 |
| 50° | 1154.2 | 1163.1 | 1238.8 | 1187.6 | 1105.2 | 1303.5 | 2624.7 | 2760.7 | 2680.5 | 1702.3 | 1782.5 |
| 52.5° | 1584.2 | 1624.3 | 1695.6 | 1740.2 | 1715.7 | 2190.3 | 3520.5 | 3495.9 | 3429.1 | 2555.7 | 2433.1 |
| 55° | 2052.1 | 2085.5 | 2185.8 | 2455.4 | 2660.4 | 3279.8 | 4378.3 | 4890.8 | 4886.3 | 4151.0 | 3792.3 |
| 57.5° | 2477.7 | 2479.9 | 2493.3 | 2825.3 | 3141.7 | 4282.5 | 5735.2 | 7618.0 | 7787.3 | 6630.9 | 5430.0 |
| 60° | 2847.6 | 2840.9 | 2727.2 | 3023.6 | 3409.1 | 5309.7 | 7393.0 | 9884.0 | 9917.4 | 8431.3 | 6298.9 |
| 62.5° | 2947.8 | 2927.8 | 2762.9 | 3039.2 | 3368.9 | 5329.7 | 7816.3 | 9614.4 | 9576.5 | 8558.3 | 6412.6 |
| 65° | 2860.9 | 2840.9 | 2631.4 | 2878.8 | 3034.7 | 4844.0 | 7219.2 | 8268.6 | 8206.2 | 7818.5 | 6105.1 |
| 67.5° | 2731.7 | 2745.1 | 2537.9 | 2727.2 | 2834.2 | 4543.2 | 6590.8 | 7114.4 | 7096.6 | 7286.0 | 5848.9 |
| 70° | 2544.5 | 2555.7 | 2366.3 | 2600.2 | 2756.2 | 4351.6 | 5989.2 | 6557.4 | 6526.2 | 6804.7 | 5472.3 |
| 72.5° | 2551.2 | 2584.6 | 2359.6 | 2535.6 | 2698.3 | 4088.6 | 5717.4 | 6365.8 | 6274.4 | 6316.8 | 5020.0 |
| 75° | 2569.0 | 2613.6 | 2375.2 | 2533.4 | 2684.9 | 3992.8 | 5686.2 | 6381.4 | 6265.5 | 6140.8 | 4848.4 |
| 77.5° | 2575.7 | 2640.3 | 2384.1 | 2557.9 | 2689.4 | 3861.4 | 5614.9 | 6303.4 | 6194.2 | 5971.4 | 4645.7 |
| 80° | 2522.3 | 2591.3 | 2346.2 | 2560.1 | 2660.4 | 3600.7 | 5434.4 | 6290.0 | 6207.6 | 5949.1 | 4563.2 |
| 82.5° | 2415.3 | 2484.4 | 2272.7 | 2448.7 | 2604.7 | 3335.5 | 5180.4 | 6029.3 | 6024.9 | 5735.2 | 4389.4 |
| 85° | 2181.3 | 2257.1 | 2096.7 | 2259.3 | 2451.0 | 2983.5 | 4668.0 | 5585.9 | 5708.5 | 5474.5 | 4155.5 |
| 87.5° | 1956.3 | 2032.1 | 1947.4 | 2038.7 | 2232.6 | 2593.6 | 4010.6 | 4821.7 | 5051.2 | 4857.3 | 3569.5 |
| 90° | 1700.1 | 1778.1 | 1709.0 | 1673.3 | 1829.3 | 2069.9 | 3206.3 | 3750.0 | 3966.1 | 3848.0 | 2627.0 |
| 92.5° | 1361.4 | 1428.2 | 1363.6 | 1281.2 | 1374.8 | 1519.6 | 2381.9 | 2624.7 | 2676.0 | 2562.4 | 1722.4 |
| 95° | 1029.4 | 1078.4 | 1020.5 | 938.0 | 949.2 | 1040.5 | 1642.1 | 1720.1 | 1706.8 | 1570.8 | 1094.0 |
| 97.5° | 715.2 | 744.2 | 706.3 | 648.4 | 668.4 | 726.4 | 1087.3 | 1078.4 | 1078.4 | 960.3 | 715.2 |
| 100° | 496.9 | 508.0 | 490.2 | 463.5 | 479.0 | 516.9 | 730.8 | 728.6 | 706.3 | 648.4 | 521.4 |
| 102.5° | 394.4 | 396.6 | 378.8 | 361.0 | 352.0 | 387.7 | 528.1 | 525.8 | 530.3 | 503.6 | 407.7 |
| 105° | 347.6 | 345.4 | 329.8 | 314.2 | 296.3 | 332.0 | 418.9 | 436.7 | 434.5 | 412.2 | 349.8 |
| 107.5° | 318.6 | 316.4 | 300.8 | 287.4 | 271.8 | 303.0 | 363.2 | 387.7 | 385.5 | 383.2 | 329.8 |
| 110° | 296.3 | 294.1 | 280.7 | 267.4 | 254.0 | 289.7 | 340.9 | 378.8 | 378.8 | 378.8 | 334.2 |



REPORT NUMBER: P588436
 CATALOG NUMBER: GAT-CA6-LED-130-750-U-33-5-X-X

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 62.5° | 65° | 75° | 85° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 280.7 | 280.7 | 269.6 | 258.5 | 247.3 | 287.4 | 327.5 | 372.1 | 372.1 | 383.2 | 349.8 |
| 115° | 271.8 | 269.6 | 260.7 | 254.0 | 245.1 | 289.7 | 323.1 | 367.6 | 369.9 | 385.5 | 347.6 |
| 117.5° | 265.1 | 262.9 | 256.2 | 247.3 | 242.9 | 285.2 | 325.3 | 376.6 | 374.3 | 398.8 | 340.9 |
| 120° | 254.0 | 249.6 | 240.6 | 231.7 | 227.3 | 262.9 | 316.4 | 365.4 | 361.0 | 372.1 | 314.2 |
| 122.5° | 245.1 | 231.7 | 216.1 | 209.4 | 209.4 | 238.4 | 296.3 | 329.8 | 325.3 | 316.4 | 283.0 |
| 125° | 225.0 | 211.7 | 198.3 | 196.1 | 198.3 | 222.8 | 283.0 | 303.0 | 305.3 | 298.6 | 267.4 |
| 127.5° | 202.8 | 193.8 | 187.2 | 187.2 | 191.6 | 218.4 | 278.5 | 291.9 | 291.9 | 278.5 | 254.0 |
| 130° | 191.6 | 189.4 | 184.9 | 184.9 | 193.8 | 220.6 | 271.8 | 276.3 | 276.3 | 258.5 | 247.3 |
| 132.5° | 187.2 | 182.7 | 178.3 | 178.3 | 187.2 | 213.9 | 254.0 | 262.9 | 260.7 | 242.9 | 234.0 |
| 135° | 178.3 | 176.0 | 171.6 | 171.6 | 182.7 | 209.4 | 238.4 | 247.3 | 245.1 | 222.8 | 216.1 |
| 137.5° | 173.8 | 169.3 | 169.3 | 169.3 | 180.5 | 207.2 | 225.0 | 231.7 | 229.5 | 207.2 | 200.5 |
| 140° | 167.1 | 164.9 | 160.4 | 160.4 | 176.0 | 200.5 | 211.7 | 213.9 | 211.7 | 193.8 | 187.2 |
| 142.5° | 156.0 | 153.7 | 151.5 | 156.0 | 171.6 | 189.4 | 198.3 | 198.3 | 196.1 | 184.9 | 176.0 |
| 145° | 149.3 | 147.1 | 144.8 | 156.0 | 169.3 | 178.3 | 187.2 | 180.5 | 180.5 | 173.8 | 164.9 |
| 147.5° | 142.6 | 140.4 | 140.4 | 149.3 | 160.4 | 160.4 | 167.1 | 164.9 | 167.1 | 164.9 | 156.0 |
| 150° | 129.2 | 127.0 | 127.0 | 133.7 | 135.9 | 135.9 | 142.6 | 142.6 | 142.6 | 142.6 | 135.9 |
| 152.5° | 113.6 | 111.4 | 113.6 | 115.9 | 115.9 | 115.9 | 120.3 | 122.5 | 122.5 | 120.3 | 118.1 |
| 155° | 98.0 | 98.0 | 98.0 | 100.3 | 100.3 | 98.0 | 104.7 | 104.7 | 104.7 | 104.7 | 102.5 |
| 157.5° | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 | 84.7 | 89.1 | 89.1 | 91.4 | 89.1 | 89.1 |
| 160° | 75.8 | 73.5 | 73.5 | 73.5 | 73.5 | 71.3 | 73.5 | 73.5 | 73.5 | 75.8 | 75.8 |
| 162.5° | 60.2 | 57.9 | 57.9 | 57.9 | 57.9 | 53.5 | 57.9 | 55.7 | 57.9 | 57.9 | 60.2 |
| 165° | 49.0 | 46.8 | 46.8 | 46.8 | 44.6 | 42.3 | 44.6 | 42.3 | 42.3 | 42.3 | 44.6 |
| 167.5° | 37.9 | 37.9 | 35.7 | 37.9 | 35.7 | 31.2 | 31.2 | 29.0 | 29.0 | 29.0 | 29.0 |
| 170° | 29.0 | 26.7 | 24.5 | 26.7 | 24.5 | 20.1 | 20.1 | 17.8 | 17.8 | 15.6 | 15.6 |
| 172.5° | 20.1 | 17.8 | 15.6 | 17.8 | 15.6 | 11.1 | 11.1 | 6.7 | 6.7 | 6.7 | 6.7 |
| 175° | 17.8 | 15.6 | 13.4 | 15.6 | 13.4 | 8.9 | 6.7 | 4.5 | 4.5 | 4.5 | 4.5 |
| 177.5° | 17.8 | 15.6 | 13.4 | 15.6 | 13.4 | 8.9 | 6.7 | 4.5 | 4.5 | 4.5 | 4.5 |
| 180° | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 |



REPORT NUMBER: P588436
 CATALOG NUMBER: GAT-CA6-LED-130-750-U-33-5-X-X

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 131.5 | 131.5 | 131.5 | 131.5 | 131.5 | 131.5 | 131.5 | 131.5 | 131.5 | 131.5 | 131.5 |
| 2.5° | 133.7 | 131.5 | 129.2 | 133.7 | 131.5 | 133.7 | 135.9 | 138.1 | 138.1 | 135.9 | 135.9 |
| 5° | 153.7 | 151.5 | 147.1 | 144.8 | 140.4 | 140.4 | 140.4 | 144.8 | 144.8 | 142.6 | 144.8 |
| 7.5° | 182.7 | 178.3 | 171.6 | 167.1 | 160.4 | 160.4 | 158.2 | 162.7 | 164.9 | 160.4 | 162.7 |
| 10° | 205.0 | 202.8 | 193.8 | 187.2 | 180.5 | 178.3 | 178.3 | 180.5 | 180.5 | 178.3 | 178.3 |
| 12.5° | 225.0 | 220.6 | 211.7 | 205.0 | 196.1 | 193.8 | 193.8 | 196.1 | 196.1 | 193.8 | 193.8 |
| 15° | 254.0 | 240.6 | 231.7 | 225.0 | 216.1 | 213.9 | 211.7 | 213.9 | 216.1 | 211.7 | 211.7 |
| 17.5° | 294.1 | 278.5 | 258.5 | 240.6 | 231.7 | 236.2 | 238.4 | 240.6 | 238.4 | 231.7 | 231.7 |
| 20° | 316.4 | 307.5 | 280.7 | 267.4 | 256.2 | 256.2 | 256.2 | 256.2 | 256.2 | 254.0 | 256.2 |
| 22.5° | 332.0 | 318.6 | 285.2 | 276.3 | 269.6 | 274.1 | 278.5 | 280.7 | 280.7 | 278.5 | 278.5 |
| 25° | 403.3 | 354.3 | 320.9 | 314.2 | 305.3 | 307.5 | 303.0 | 303.0 | 305.3 | 303.0 | 307.5 |
| 27.5° | 554.8 | 474.6 | 398.8 | 372.1 | 365.4 | 365.4 | 369.9 | 369.9 | 369.9 | 369.9 | 367.6 |
| 30° | 666.2 | 572.6 | 447.9 | 412.2 | 407.7 | 427.8 | 438.9 | 447.9 | 443.4 | 436.7 | 436.7 |
| 32.5° | 684.0 | 581.5 | 456.8 | 443.4 | 454.5 | 470.1 | 481.3 | 488.0 | 494.6 | 492.4 | 490.2 |
| 35° | 646.2 | 537.0 | 450.1 | 467.9 | 476.8 | 485.7 | 488.0 | 483.5 | 503.6 | 512.5 | 514.7 |
| 37.5° | 721.9 | 601.6 | 523.6 | 537.0 | 525.8 | 516.9 | 521.4 | 523.6 | 550.4 | 563.7 | 577.1 |
| 40° | 922.4 | 726.4 | 594.9 | 588.2 | 581.5 | 601.6 | 628.3 | 641.7 | 639.5 | 630.6 | 632.8 |
| 42.5° | 1116.3 | 848.9 | 670.7 | 668.4 | 666.2 | 701.9 | 744.2 | 742.0 | 721.9 | 706.3 | 706.3 |
| 45° | 1314.6 | 967.0 | 791.0 | 793.2 | 788.8 | 802.1 | 813.3 | 804.4 | 806.6 | 811.0 | 815.5 |
| 47.5° | 1437.1 | 1074.0 | 866.7 | 860.1 | 831.1 | 857.8 | 889.0 | 869.0 | 862.3 | 851.1 | 855.6 |
| 50° | 1466.1 | 1100.7 | 911.3 | 960.3 | 933.6 | 913.5 | 880.1 | 866.7 | 891.3 | 909.1 | 922.4 |
| 52.5° | 1905.1 | 1359.2 | 1138.6 | 1216.6 | 1180.9 | 1109.6 | 1102.9 | 1080.6 | 1107.4 | 1109.6 | 1125.2 |
| 55° | 3192.9 | 2179.1 | 1568.6 | 1644.4 | 1646.6 | 1622.1 | 1733.5 | 1671.1 | 1615.4 | 1590.9 | 1582.0 |
| 57.5° | 5033.4 | 3368.9 | 2029.8 | 2125.6 | 2217.0 | 2303.9 | 2455.4 | 2328.4 | 2168.0 | 2147.9 | 2170.2 |
| 60° | 6446.0 | 4757.1 | 2589.1 | 2858.7 | 2981.2 | 2985.7 | 3005.8 | 2881.0 | 2782.9 | 2791.9 | 2823.1 |
| 62.5° | 6749.0 | 5915.7 | 3297.6 | 3409.1 | 3420.2 | 3337.8 | 3373.4 | 3453.6 | 3315.5 | 3206.3 | 3235.3 |
| 65° | 6546.3 | 6374.7 | 3529.4 | 3239.7 | 3221.9 | 3235.3 | 3478.1 | 3700.9 | 3422.4 | 3146.1 | 3146.1 |
| 67.5° | 6154.1 | 6024.9 | 3293.2 | 2914.4 | 2963.4 | 3114.9 | 3422.4 | 3533.8 | 3237.5 | 2943.4 | 2943.4 |
| 70° | 5735.2 | 5476.8 | 3028.0 | 2655.9 | 2776.3 | 2952.3 | 3152.8 | 3161.7 | 2987.9 | 2778.5 | 2765.1 |
| 72.5° | 5282.9 | 5049.0 | 2914.4 | 2580.2 | 2635.9 | 2667.1 | 2776.3 | 2845.3 | 2825.3 | 2689.4 | 2687.1 |
| 75° | 5149.2 | 4959.8 | 2912.2 | 2544.5 | 2511.1 | 2500.0 | 2575.7 | 2725.0 | 2794.1 | 2713.9 | 2718.3 |
| 77.5° | 4946.5 | 4832.8 | 2776.3 | 2395.2 | 2359.6 | 2359.6 | 2399.7 | 2520.0 | 2624.7 | 2591.3 | 2602.5 |
| 80° | 4806.1 | 4634.5 | 2569.0 | 2232.6 | 2183.6 | 2190.3 | 2194.7 | 2277.2 | 2375.2 | 2379.7 | 2379.7 |
| 82.5° | 4536.5 | 4213.4 | 2254.9 | 1989.7 | 1956.3 | 1965.2 | 1949.6 | 1996.4 | 2023.1 | 2056.6 | 2049.9 |
| 85° | 4093.1 | 3636.3 | 1905.1 | 1724.6 | 1671.1 | 1653.3 | 1639.9 | 1642.1 | 1657.7 | 1651.1 | 1624.3 |
| 87.5° | 3429.1 | 2883.2 | 1519.6 | 1414.9 | 1352.5 | 1307.9 | 1290.1 | 1267.8 | 1265.6 | 1241.1 | 1250.0 |
| 90° | 2531.2 | 1978.6 | 1127.4 | 1089.6 | 1045.0 | 998.2 | 973.7 | 951.4 | 933.6 | 909.1 | 900.2 |
| 92.5° | 1651.1 | 1274.5 | 824.4 | 804.4 | 775.4 | 748.7 | 737.5 | 726.4 | 721.9 | 701.9 | 708.5 |
| 95° | 1031.6 | 862.3 | 619.4 | 597.1 | 581.5 | 574.9 | 577.1 | 579.3 | 574.9 | 552.6 | 559.3 |
| 97.5° | 688.5 | 623.9 | 483.5 | 467.9 | 452.3 | 450.1 | 452.3 | 456.8 | 459.0 | 443.4 | 447.9 |
| 100° | 508.0 | 479.0 | 396.6 | 385.5 | 372.1 | 367.6 | 369.9 | 374.3 | 376.6 | 363.2 | 365.4 |
| 102.5° | 403.3 | 389.9 | 343.1 | 338.7 | 323.1 | 318.6 | 323.1 | 325.3 | 327.5 | 318.6 | 318.6 |
| 105° | 354.3 | 354.3 | 316.4 | 314.2 | 303.0 | 298.6 | 300.8 | 303.0 | 305.3 | 296.3 | 296.3 |
| 107.5° | 340.9 | 343.1 | 305.3 | 307.5 | 300.8 | 298.6 | 303.0 | 307.5 | 305.3 | 298.6 | 296.3 |
| 110° | 352.0 | 356.5 | 305.3 | 311.9 | 314.2 | 318.6 | 327.5 | 329.8 | 329.8 | 325.3 | 327.5 |



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| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 363.2 | 369.9 | 300.8 | 316.4 | 332.0 | 343.1 | 358.7 | 367.6 | 363.2 | 361.0 | 363.2 |
| 115° | 354.3 | 358.7 | 280.7 | 305.3 | 334.2 | 349.8 | 354.3 | 354.3 | 343.1 | 343.1 | 345.4 |
| 117.5° | 343.1 | 352.0 | 260.7 | 280.7 | 300.8 | 314.2 | 311.9 | 305.3 | 291.9 | 287.4 | 300.8 |
| 120° | 318.6 | 345.4 | 249.6 | 254.0 | 256.2 | 260.7 | 254.0 | 247.3 | 236.2 | 234.0 | 242.9 |
| 122.5° | 294.1 | 318.6 | 229.5 | 225.0 | 222.8 | 222.8 | 220.6 | 218.4 | 211.7 | 213.9 | 222.8 |
| 125° | 274.1 | 287.4 | 209.4 | 202.8 | 200.5 | 202.8 | 202.8 | 202.8 | 198.3 | 193.8 | 193.8 |
| 127.5° | 258.5 | 262.9 | 198.3 | 189.4 | 187.2 | 187.2 | 187.2 | 189.4 | 187.2 | 180.5 | 180.5 |
| 130° | 249.6 | 247.3 | 191.6 | 176.0 | 173.8 | 176.0 | 176.0 | 178.3 | 173.8 | 169.3 | 169.3 |
| 132.5° | 231.7 | 227.3 | 182.7 | 167.1 | 164.9 | 167.1 | 167.1 | 167.1 | 162.7 | 158.2 | 158.2 |
| 135° | 211.7 | 207.2 | 171.6 | 156.0 | 153.7 | 156.0 | 156.0 | 158.2 | 153.7 | 149.3 | 149.3 |
| 137.5° | 196.1 | 191.6 | 160.4 | 147.1 | 144.8 | 144.8 | 147.1 | 147.1 | 144.8 | 140.4 | 140.4 |
| 140° | 182.7 | 178.3 | 149.3 | 138.1 | 133.7 | 135.9 | 135.9 | 135.9 | 133.7 | 129.2 | 129.2 |
| 142.5° | 171.6 | 169.3 | 138.1 | 127.0 | 122.5 | 124.8 | 124.8 | 127.0 | 122.5 | 118.1 | 118.1 |
| 145° | 162.7 | 158.2 | 129.2 | 115.9 | 113.6 | 113.6 | 113.6 | 115.9 | 111.4 | 107.0 | 107.0 |
| 147.5° | 153.7 | 149.3 | 118.1 | 104.7 | 102.5 | 102.5 | 102.5 | 102.5 | 100.3 | 95.8 | 93.6 |
| 150° | 135.9 | 133.7 | 109.2 | 95.8 | 91.4 | 91.4 | 91.4 | 89.1 | 84.7 | 80.2 | 80.2 |
| 152.5° | 115.9 | 113.6 | 95.8 | 84.7 | 80.2 | 80.2 | 78.0 | 78.0 | 73.5 | 71.3 | 69.1 |
| 155° | 100.3 | 100.3 | 86.9 | 75.8 | 71.3 | 69.1 | 66.8 | 66.8 | 64.6 | 62.4 | 60.2 |
| 157.5° | 89.1 | 86.9 | 78.0 | 69.1 | 60.2 | 60.2 | 57.9 | 57.9 | 55.7 | 53.5 | 51.2 |
| 160° | 75.8 | 75.8 | 66.8 | 57.9 | 51.2 | 49.0 | 49.0 | 46.8 | 44.6 | 42.3 | 42.3 |
| 162.5° | 60.2 | 60.2 | 53.5 | 46.8 | 40.1 | 40.1 | 37.9 | 37.9 | 35.7 | 33.4 | 31.2 |
| 165° | 42.3 | 42.3 | 40.1 | 35.7 | 31.2 | 29.0 | 29.0 | 29.0 | 26.7 | 24.5 | 24.5 |
| 167.5° | 29.0 | 29.0 | 26.7 | 24.5 | 22.3 | 20.1 | 22.3 | 22.3 | 20.1 | 17.8 | 17.8 |
| 170° | 15.6 | 15.6 | 13.4 | 13.4 | 11.1 | 11.1 | 13.4 | 15.6 | 13.4 | 11.1 | 8.9 |
| 172.5° | 6.7 | 6.7 | 6.7 | 6.7 | 4.5 | 6.7 | 8.9 | 11.1 | 8.9 | 6.7 | 6.7 |
| 175° | 4.5 | 4.5 | 6.7 | 6.7 | 4.5 | 6.7 | 8.9 | 11.1 | 8.9 | 6.7 | 6.7 |
| 177.5° | 4.5 | 4.5 | 6.7 | 6.7 | 4.5 | 6.7 | 8.9 | 11.1 | 8.9 | 6.7 | 6.7 |
| 180° | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 |

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