

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: STREETWORKS

Report Number: P268230

Luminaire Tested: **GAN-AF-01-LED-U-T3R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-T3R-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3647.2 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

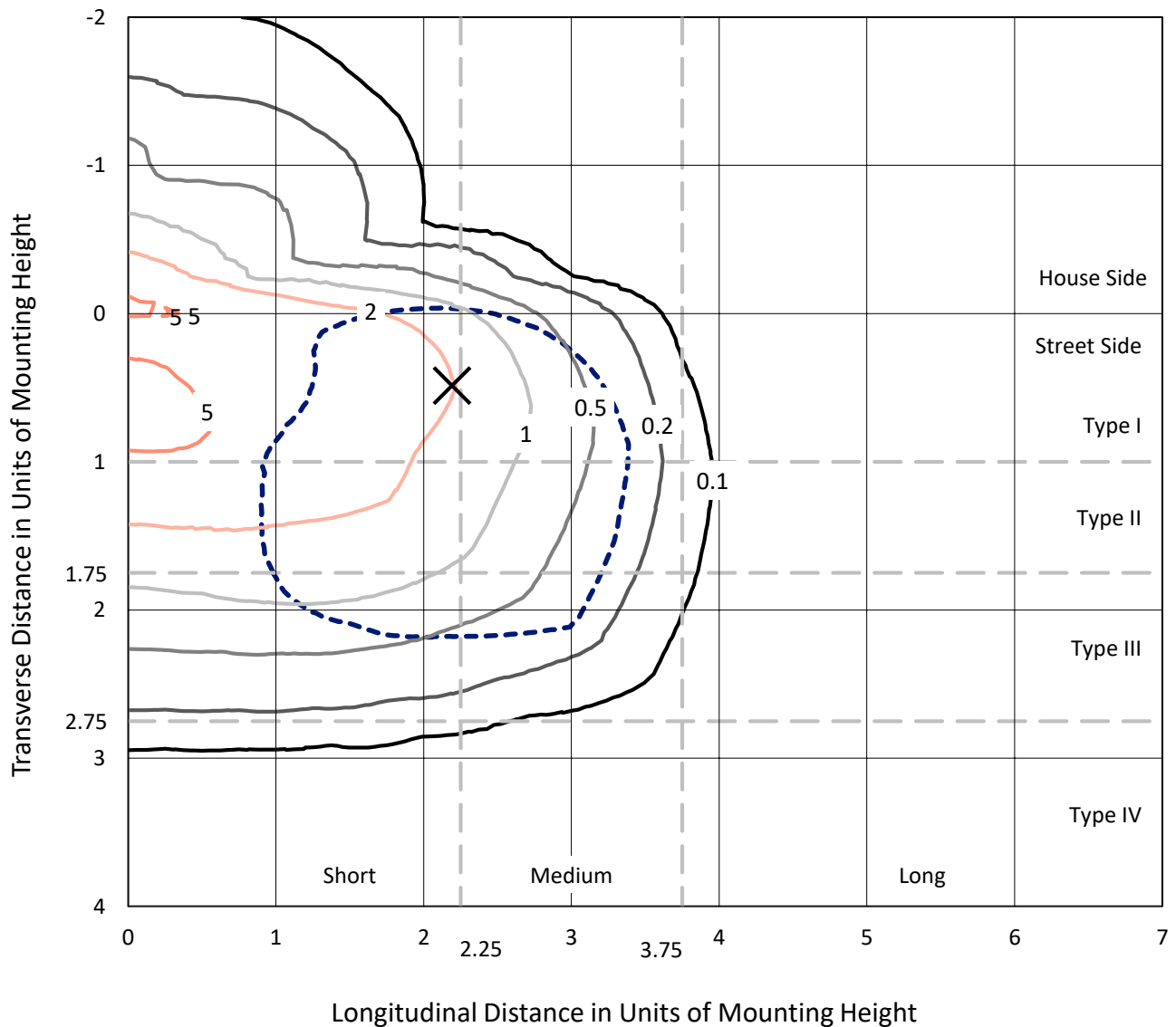
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P268230
 CATALOG NUMBER: GAN-AF-01-LED-U-T3R-7027-600

Iso-Footcandle Lines of Horizontal Illumination

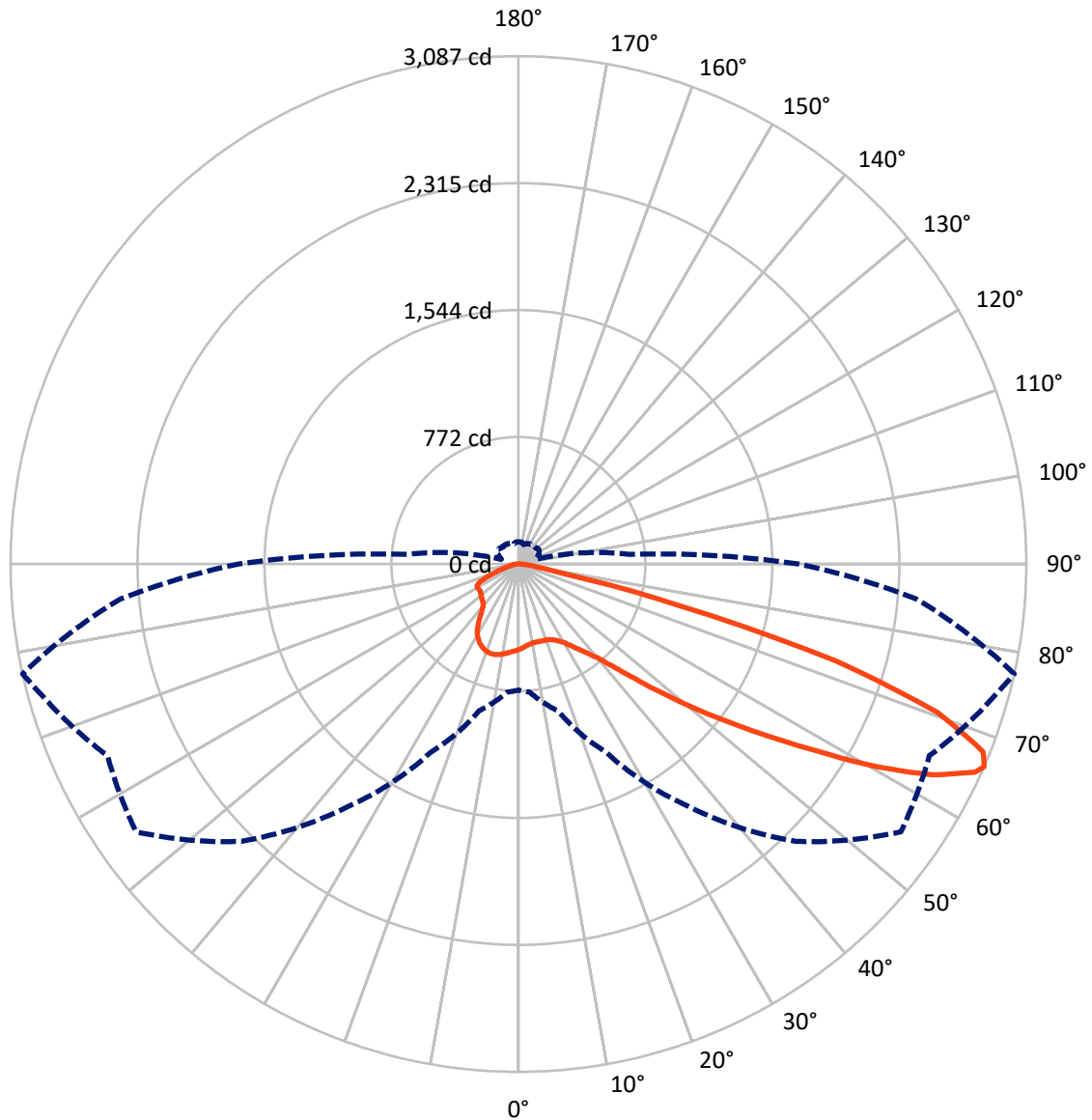
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P268230
CATALOG NUMBER: GAN-AF-01-LED-U-T3R-7027-600

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



REPORT NUMBER: P268230

CATALOG NUMBER: GAN-AF-01-LED-U-T3R-7027-600

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 623.1 | 0.0 | 623.1 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 3024.1 | 0.0 | 3024.1 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 3647.2 | 0.0 | 3647.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.4 | 1.3 |
| 10°-20° | 131.0 | 3.6 |
| 20°-30° | 223.6 | 6.1 |
| 30°-40° | 357.9 | 9.8 |
| 40°-50° | 552.9 | 15.2 |
| 50°-60° | 784.2 | 21.5 |
| 60°-70° | 1049.1 | 28.8 |
| 70°-80° | 455.6 | 12.5 |
| 80°-90° | 46.4 | 1.3 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 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° | 3647.2 | 100.0 |
| 0°-180° | 3647.2 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P268230

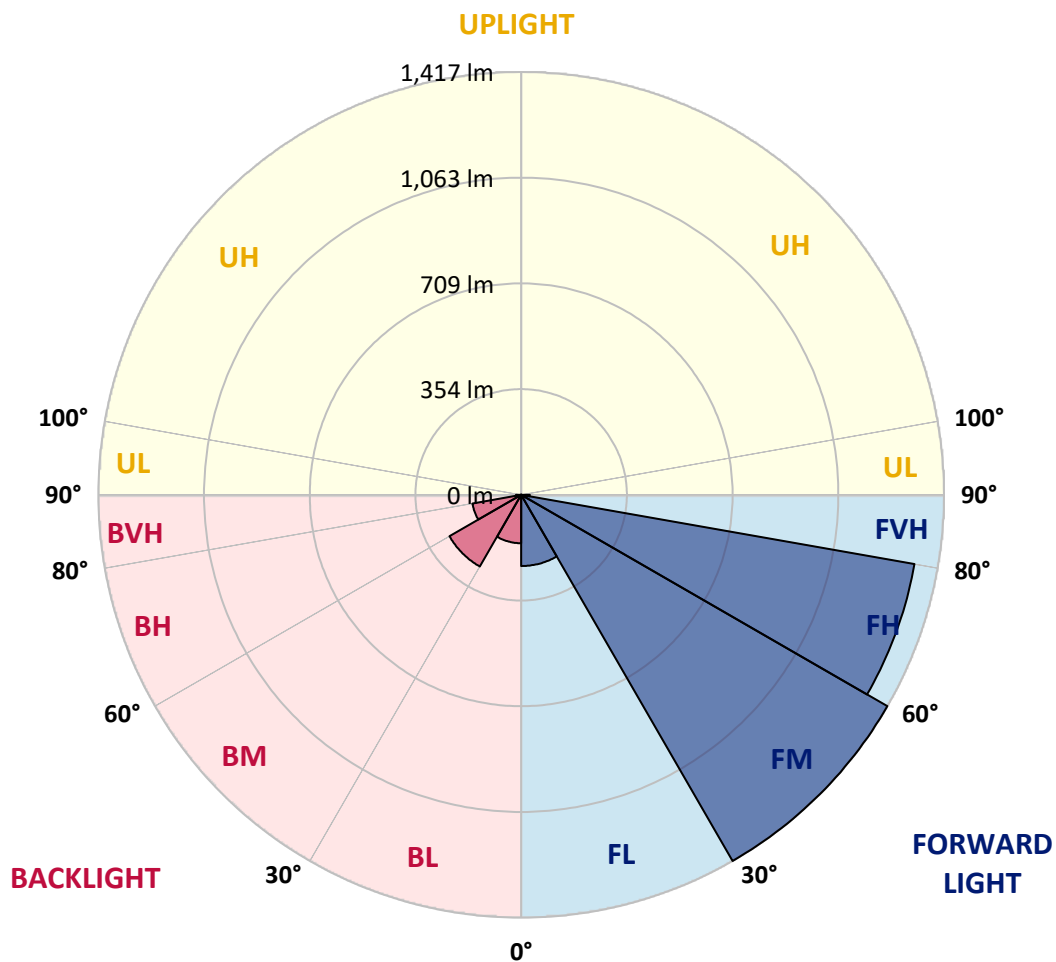
CATALOG NUMBER: GAN-AF-01-LED-U-T3R-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 238.7 | 6.5 | | | |
| FM | (30°-60°) | 1417.5 | 38.9 | | | |
| FH | (60°-80°) | 1338.7 | 36.7 | | | G1/1800 |
| FVH | (80°-90°) | 29.1 | 0.8 | | | G1/100 |
| BL | (0°-30°) | 162.3 | 4.4 | B1/500 | | |
| BM | (30°-60°) | 277.5 | 7.6 | B1/1000 | | |
| BH | (60°-80°) | 165.9 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 17.3 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Short





REPORT NUMBER: P268230

CATALOG NUMBER: GAN-AF-01-LED-U-T3R-7027-600

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77.5° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 519.7 | 519.7 | 519.7 | 519.7 | 519.7 | 519.7 | 519.7 | 519.7 | 519.7 | 519.7 | 519.7 |
| 2.5° | 459.8 | 462.8 | 465.4 | 467.8 | 472.7 | 480.7 | 489.8 | 497.1 | 507.8 | 509.9 | 515.5 |
| 5° | 417.5 | 417.5 | 419.6 | 423.2 | 429.7 | 441.6 | 454.2 | 470.6 | 493.9 | 499.4 | 514.5 |
| 7.5° | 397.1 | 397.2 | 398.4 | 401.5 | 407.2 | 418.2 | 431.6 | 451.2 | 482.7 | 491.8 | 517.7 |
| 10° | 404.6 | 402.9 | 400.4 | 398.8 | 399.7 | 406.0 | 418.9 | 440.7 | 475.8 | 487.5 | 524.6 |
| 12.5° | 447.0 | 443.8 | 434.8 | 422.9 | 411.6 | 406.8 | 414.5 | 435.7 | 472.9 | 486.5 | 533.8 |
| 15° | 516.3 | 514.9 | 498.2 | 473.5 | 446.0 | 422.9 | 417.7 | 433.7 | 473.1 | 487.7 | 544.6 |
| 17.5° | 603.1 | 601.2 | 579.1 | 543.4 | 498.4 | 453.4 | 429.3 | 435.3 | 474.5 | 489.8 | 555.1 |
| 20° | 690.8 | 685.0 | 661.2 | 618.6 | 560.7 | 495.0 | 448.4 | 439.4 | 476.0 | 492.0 | 566.1 |
| 22.5° | 756.4 | 751.5 | 730.1 | 688.6 | 622.0 | 543.0 | 474.0 | 446.2 | 481.0 | 498.6 | 579.6 |
| 25° | 814.0 | 814.3 | 793.1 | 752.9 | 684.1 | 594.0 | 507.2 | 464.7 | 493.7 | 511.9 | 598.4 |
| 27.5° | 885.1 | 881.0 | 861.1 | 821.3 | 745.6 | 645.5 | 547.2 | 489.9 | 512.7 | 531.1 | 622.7 |
| 30° | 970.2 | 967.3 | 944.4 | 899.3 | 813.5 | 700.9 | 592.8 | 519.4 | 537.1 | 556.3 | 654.9 |
| 32.5° | 1070.3 | 1069.0 | 1045.2 | 987.1 | 892.1 | 766.1 | 646.4 | 558.3 | 573.7 | 593.5 | 700.9 |
| 35° | 1187.9 | 1188.0 | 1159.9 | 1090.2 | 978.2 | 841.8 | 707.2 | 608.5 | 618.2 | 638.9 | 755.7 |
| 37.5° | 1260.2 | 1269.0 | 1258.5 | 1187.3 | 1075.5 | 926.6 | 786.1 | 674.9 | 668.8 | 689.7 | 814.5 |
| 40° | 1275.8 | 1286.5 | 1319.7 | 1283.5 | 1184.4 | 1020.0 | 856.2 | 738.9 | 731.2 | 756.7 | 890.1 |
| 42.5° | 1254.0 | 1268.9 | 1339.2 | 1364.6 | 1300.0 | 1135.1 | 950.1 | 833.8 | 824.0 | 858.4 | 984.2 |
| 45° | 1241.1 | 1252.1 | 1333.4 | 1406.8 | 1400.4 | 1265.3 | 1070.1 | 953.1 | 949.5 | 994.6 | 1092.7 |
| 47.5° | 1218.7 | 1228.7 | 1306.9 | 1416.6 | 1459.2 | 1384.5 | 1213.9 | 1098.9 | 1106.1 | 1164.9 | 1215.2 |
| 50° | 1230.8 | 1234.9 | 1277.3 | 1391.7 | 1476.4 | 1471.9 | 1374.6 | 1267.8 | 1291.9 | 1365.6 | 1353.9 |
| 52.5° | 1229.1 | 1239.8 | 1273.8 | 1350.7 | 1478.6 | 1525.9 | 1533.0 | 1456.2 | 1506.9 | 1591.4 | 1507.8 |
| 55° | 993.6 | 1013.3 | 1233.4 | 1340.5 | 1486.4 | 1578.7 | 1674.0 | 1654.7 | 1749.4 | 1847.9 | 1681.5 |
| 57.5° | 948.8 | 961.2 | 1083.3 | 1362.1 | 1528.6 | 1679.7 | 1830.8 | 1873.1 | 2031.7 | 2146.1 | 1893.2 |
| 60° | 940.0 | 955.3 | 1081.6 | 1388.6 | 1613.8 | 1844.3 | 2063.2 | 2137.7 | 2375.2 | 2500.3 | 2138.5 |
| 62.5° | 912.7 | 929.1 | 1071.6 | 1385.1 | 1734.9 | 2071.9 | 2360.8 | 2419.0 | 2700.9 | 2822.6 | 2343.9 |
| 65° | 825.8 | 841.4 | 988.7 | 1329.5 | 1816.7 | 2314.9 | 2713.2 | 2676.8 | 2957.9 | 3049.6 | 2446.3 |
| 66° | 766.3 | 781.5 | 923.4 | 1264.0 | 1797.7 | 2383.8 | 2837.8 | 2756.5 | 3015.6 | 3087.2 | 2426.2 |
| 67.5° | 657.6 | 669.4 | 796.4 | 1117.4 | 1696.9 | 2403.1 | 2942.8 | 2816.5 | 3021.5 | 3047.0 | 2312.0 |
| 70° | 415.5 | 418.9 | 517.7 | 771.4 | 1284.5 | 2084.2 | 2783.0 | 2667.6 | 2772.3 | 2703.8 | 1938.2 |
| 72.5° | 180.3 | 179.0 | 248.6 | 392.4 | 727.2 | 1398.4 | 2251.3 | 2201.1 | 2174.7 | 2018.3 | 1356.7 |
| 75° | 100.3 | 101.7 | 129.0 | 182.1 | 295.5 | 686.9 | 1472.7 | 1409.4 | 1190.0 | 1015.4 | 615.2 |
| 77.5° | 80.5 | 82.4 | 107.0 | 129.3 | 132.7 | 239.6 | 689.1 | 560.7 | 337.7 | 270.8 | 170.9 |
| 80° | 63.6 | 67.1 | 93.5 | 100.6 | 89.4 | 98.8 | 222.6 | 178.0 | 133.6 | 122.4 | 88.6 |
| 82.5° | 50.3 | 52.7 | 80.0 | 76.1 | 62.5 | 66.6 | 106.7 | 103.9 | 86.9 | 79.1 | 51.2 |
| 85° | 36.2 | 40.7 | 65.8 | 57.4 | 41.1 | 44.8 | 70.8 | 67.9 | 49.8 | 40.7 | 22.5 |
| 87.5° | 14.8 | 19.4 | 46.5 | 38.1 | 22.9 | 20.8 | 35.4 | 33.2 | 23.6 | 17.2 | 11.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P268230

CATALOG NUMBER: GAN-AF-01-LED-U-T3R-7027-600

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 519.7 | 519.7 | 519.7 | 519.7 | 519.7 | 519.7 | 519.7 | 519.7 | 519.7 | 519.7 | 519.7 |
| 2.5° | 519.2 | 523.4 | 528.7 | 531.9 | 533.8 | 534.9 | 536.7 | 536.6 | 537.1 | 537.4 | 538.1 |
| 5° | 522.6 | 529.6 | 537.4 | 539.4 | 539.4 | 537.5 | 535.6 | 532.4 | 531.3 | 531.0 | 531.3 |
| 7.5° | 531.6 | 539.3 | 545.9 | 543.6 | 538.4 | 530.8 | 520.9 | 512.4 | 507.7 | 506.1 | 505.7 |
| 10° | 543.0 | 552.2 | 555.0 | 545.8 | 530.5 | 512.4 | 492.9 | 478.7 | 470.6 | 468.3 | 467.7 |
| 12.5° | 556.8 | 565.5 | 561.6 | 542.2 | 514.2 | 484.7 | 457.9 | 435.3 | 418.4 | 413.1 | 412.7 |
| 15° | 572.0 | 578.7 | 565.5 | 531.6 | 489.8 | 446.4 | 398.4 | 359.5 | 338.4 | 331.7 | 331.3 |
| 17.5° | 586.1 | 589.6 | 563.1 | 513.0 | 453.7 | 383.4 | 319.8 | 289.9 | 282.6 | 284.4 | 284.8 |
| 20° | 598.1 | 598.1 | 555.6 | 486.3 | 397.1 | 300.6 | 260.4 | 259.9 | 265.0 | 270.2 | 271.3 |
| 22.5° | 611.4 | 603.5 | 542.2 | 448.6 | 316.7 | 246.0 | 240.0 | 244.9 | 250.7 | 256.5 | 257.3 |
| 25° | 627.7 | 607.9 | 523.9 | 391.3 | 249.0 | 223.4 | 225.6 | 229.5 | 232.5 | 236.1 | 236.7 |
| 27.5° | 646.1 | 613.4 | 499.5 | 312.6 | 216.1 | 209.2 | 210.9 | 212.3 | 212.0 | 213.3 | 213.6 |
| 30° | 667.9 | 619.7 | 466.3 | 244.3 | 202.5 | 197.2 | 194.0 | 192.9 | 192.9 | 195.1 | 195.9 |
| 32.5° | 697.3 | 629.2 | 418.6 | 209.3 | 195.9 | 188.6 | 178.6 | 174.0 | 175.8 | 183.3 | 185.1 |
| 35° | 729.5 | 639.4 | 353.9 | 197.4 | 194.6 | 184.5 | 169.1 | 160.7 | 160.9 | 168.1 | 170.3 |
| 37.5° | 764.5 | 652.3 | 283.1 | 195.2 | 197.6 | 184.7 | 164.1 | 152.7 | 148.0 | 148.0 | 148.8 |
| 40° | 809.6 | 665.6 | 229.2 | 196.8 | 204.3 | 186.8 | 161.4 | 146.3 | 133.2 | 133.6 | 134.2 |
| 42.5° | 868.2 | 677.0 | 200.2 | 200.1 | 212.1 | 189.5 | 161.2 | 137.9 | 126.5 | 134.2 | 141.4 |
| 45° | 933.2 | 682.6 | 187.4 | 202.9 | 218.5 | 191.2 | 158.6 | 136.5 | 127.4 | 150.5 | 163.9 |
| 47.5° | 1008.3 | 679.3 | 180.4 | 204.1 | 220.1 | 191.2 | 155.4 | 139.7 | 133.4 | 174.2 | 189.9 |
| 50° | 1090.5 | 669.9 | 173.6 | 201.9 | 219.5 | 190.9 | 158.5 | 143.0 | 135.6 | 178.4 | 189.3 |
| 52.5° | 1187.2 | 662.0 | 166.2 | 197.4 | 216.0 | 189.1 | 161.9 | 141.7 | 128.5 | 162.1 | 169.7 |
| 55° | 1297.4 | 664.1 | 158.2 | 191.1 | 210.3 | 185.4 | 160.5 | 136.2 | 121.1 | 142.9 | 147.5 |
| 57.5° | 1438.5 | 690.8 | 148.5 | 183.1 | 202.5 | 179.4 | 156.3 | 133.6 | 118.8 | 129.5 | 132.3 |
| 60° | 1595.7 | 737.4 | 136.5 | 174.9 | 192.9 | 169.7 | 153.0 | 134.7 | 120.0 | 128.5 | 130.0 |
| 62.5° | 1711.2 | 764.5 | 126.1 | 163.0 | 179.8 | 159.1 | 148.8 | 136.4 | 122.7 | 132.2 | 131.8 |
| 65° | 1742.6 | 720.0 | 113.2 | 145.6 | 162.0 | 147.9 | 143.6 | 138.0 | 123.8 | 135.1 | 133.6 |
| 66° | 1698.7 | 672.1 | 107.5 | 137.5 | 153.0 | 142.3 | 141.2 | 137.9 | 123.3 | 135.5 | 132.9 |
| 67.5° | 1591.9 | 573.8 | 97.7 | 125.7 | 138.7 | 134.0 | 137.0 | 136.4 | 122.0 | 135.1 | 131.5 |
| 70° | 1298.3 | 391.5 | 83.6 | 104.7 | 115.4 | 118.0 | 129.0 | 130.9 | 117.5 | 129.0 | 121.1 |
| 72.5° | 907.2 | 238.5 | 73.9 | 81.1 | 93.5 | 100.6 | 118.1 | 123.2 | 111.5 | 112.6 | 105.1 |
| 75° | 438.5 | 126.8 | 67.1 | 62.9 | 72.6 | 84.1 | 105.1 | 112.8 | 102.0 | 94.2 | 91.4 |
| 77.5° | 136.6 | 77.3 | 56.9 | 50.7 | 56.9 | 67.9 | 87.9 | 99.0 | 90.8 | 79.0 | 78.0 |
| 80° | 73.4 | 56.9 | 43.7 | 40.7 | 44.9 | 53.3 | 69.1 | 82.6 | 78.1 | 70.8 | 63.2 |
| 82.5° | 48.4 | 36.9 | 32.3 | 31.5 | 34.2 | 40.7 | 51.4 | 68.5 | 68.5 | 60.6 | 44.0 |
| 85° | 25.1 | 22.5 | 22.2 | 22.2 | 24.0 | 27.0 | 34.9 | 52.7 | 56.1 | 32.1 | 26.5 |
| 87.5° | 12.3 | 12.9 | 12.0 | 12.5 | 13.5 | 13.2 | 16.7 | 26.5 | 31.7 | 19.5 | 16.2 |
| 90° | 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)