

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: P268935

Luminaire Tested: **GAN-AF-10-LED-U-SLR-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-SLR-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36344.3 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

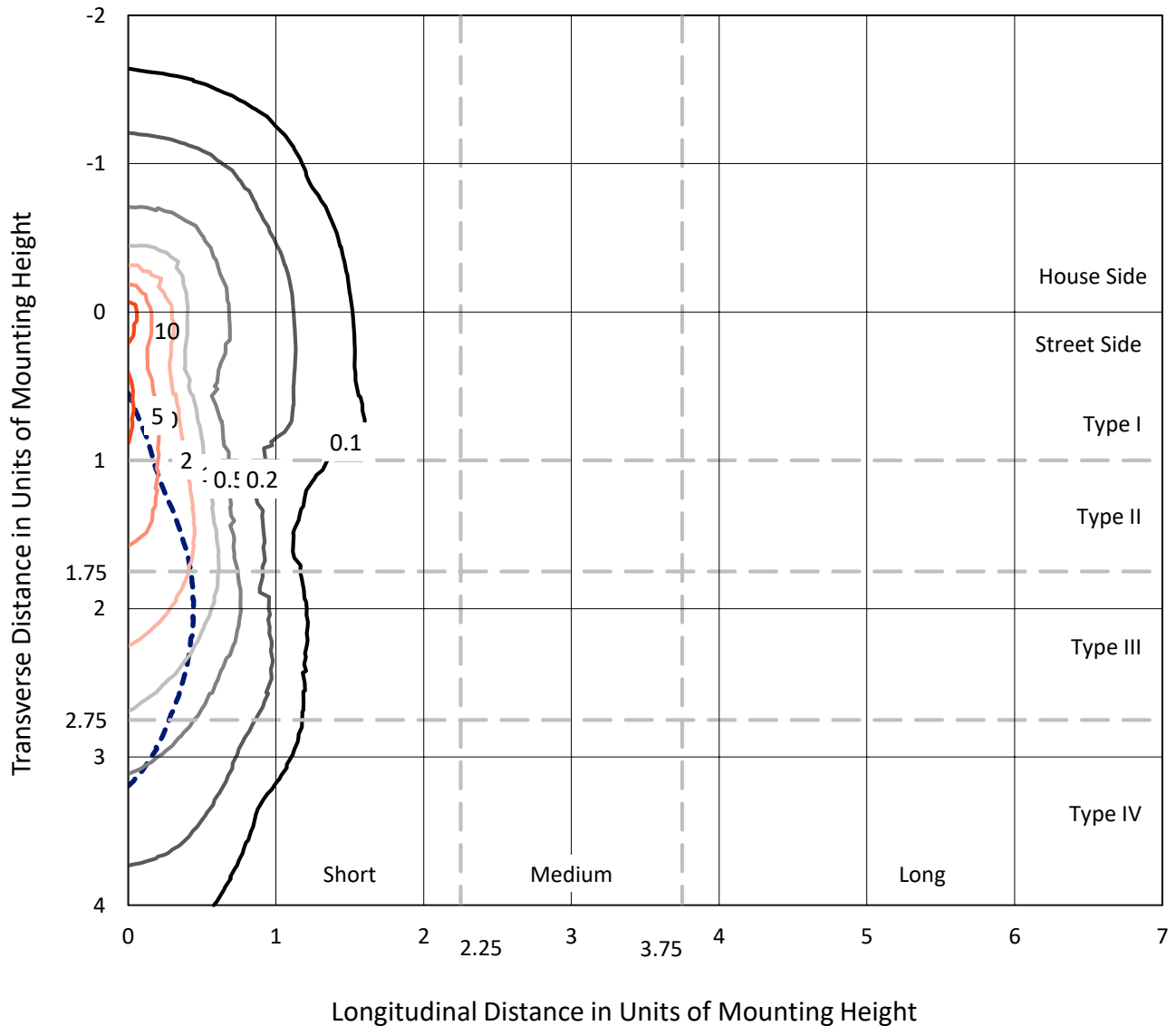
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

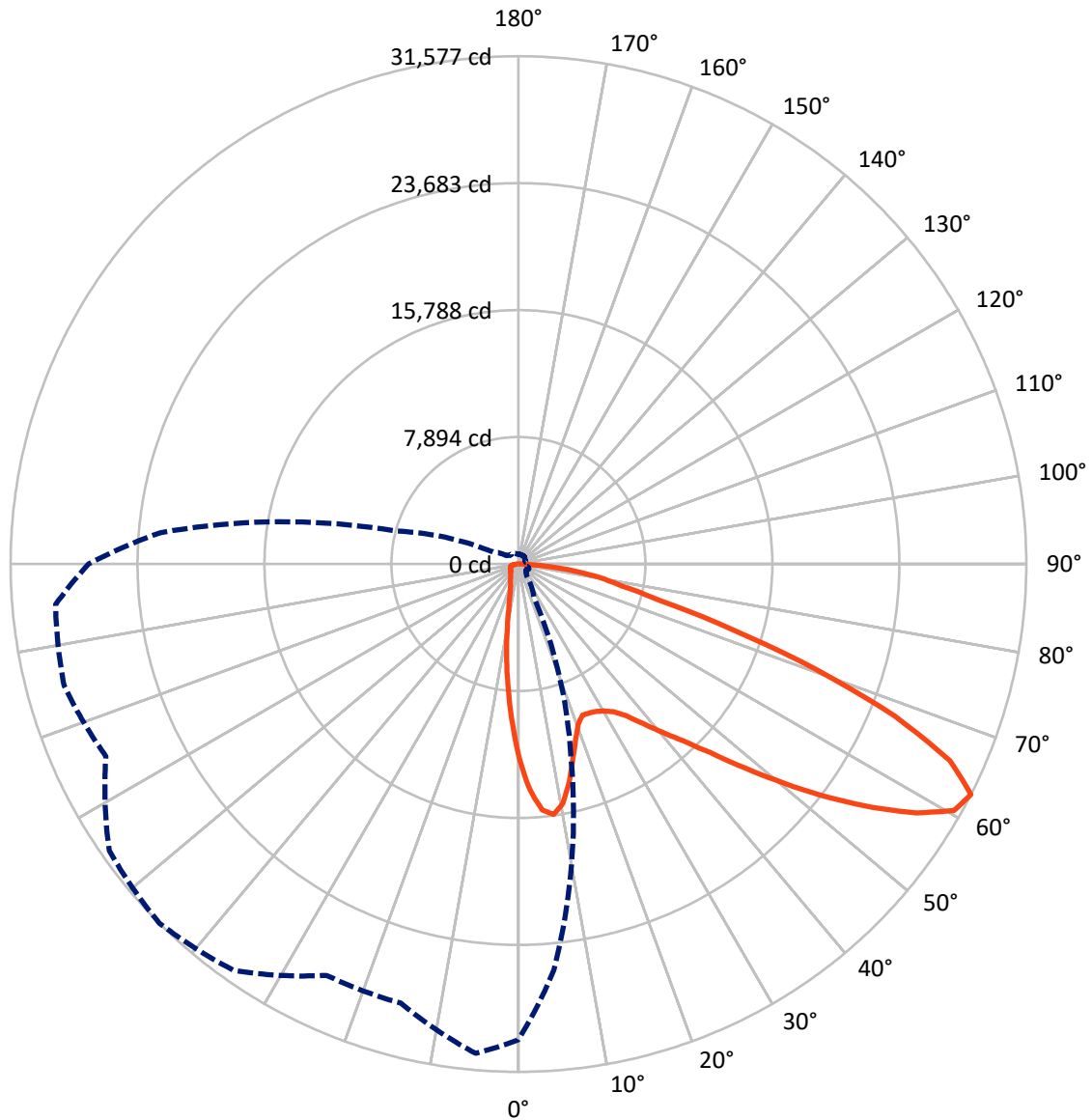
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6014.5 | 0.0 | 6014.5 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 30329.8 | 0.0 | 30329.8 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 36344.3 | 0.0 | 36344.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 893.9 | 2.5 |
| 10°-20° | 1639.1 | 4.5 |
| 20°-30° | 2389.8 | 6.6 |
| 30°-40° | 3680.6 | 10.1 |
| 40°-50° | 5416.9 | 14.9 |
| 50°-60° | 7945.5 | 21.9 |
| 60°-70° | 8881.9 | 24.4 |
| 70°-80° | 4348.5 | 12.0 |
| 80°-90° | 1148.1 | 3.2 |
| 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° | 36344.3 | 100.0 |
| 0°-180° | 36344.3 | 100.0 |



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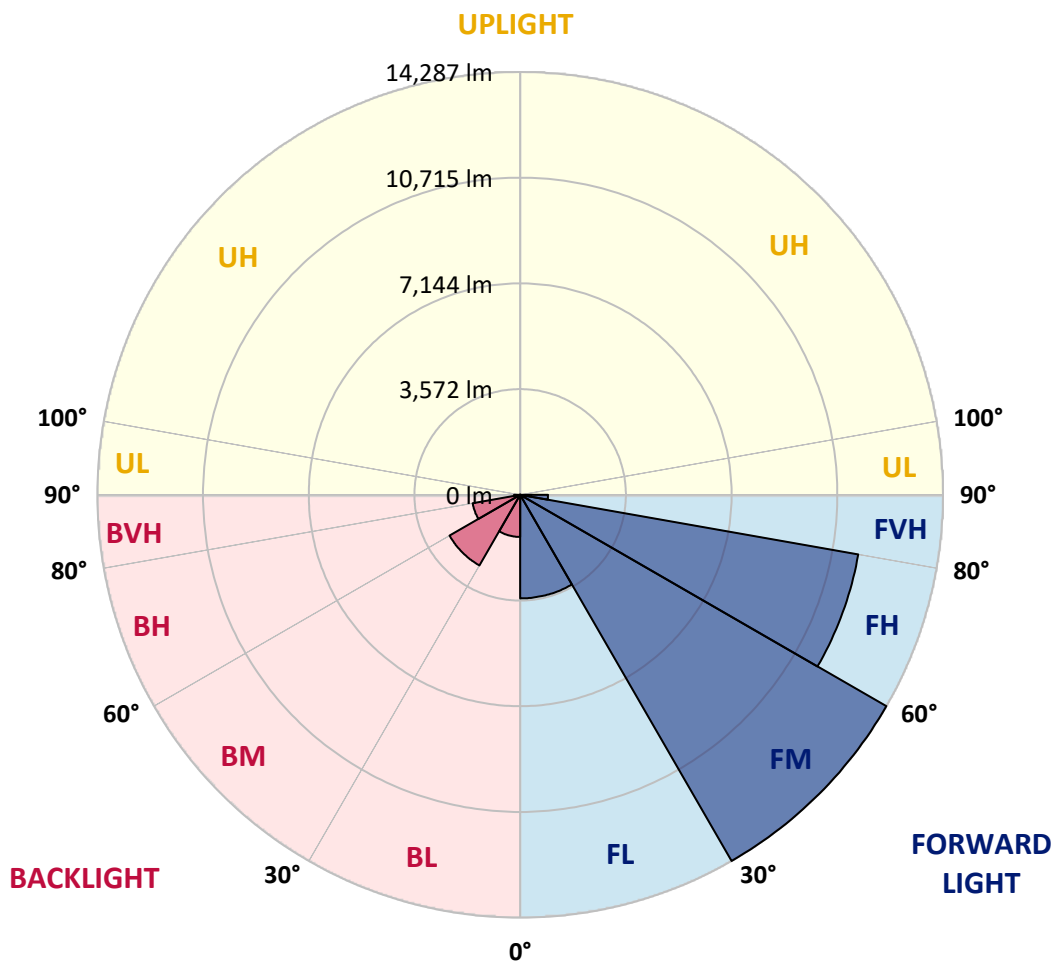
CATALOG NUMBER: GAN-AF-10-LED-U-SLR-7027-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3499.8 | 9.6 | | | |
| FM (30°-60°) | 14287.3 | 39.3 | | | |
| FH (60°-80°) | 11599.8 | 31.9 | | | G4/12000 |
| FVH (80°-90°) | 942.9 | 2.6 | | | G5 |
| BL (0°-30°) | 1422.9 | 3.9 | B3/2500 | | |
| BM (30°-60°) | 2755.8 | 7.6 | B3/5000 | | |
| BH (60°-80°) | 1630.5 | 4.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 205.2 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P268935

CATALOG NUMBER: GAN-AF-10-LED-U-SLR-7027-800

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12279.0 | 12279.0 | 12279.0 | 12279.0 | 12279.0 | 12279.0 | 12279.0 | 12279.0 | 12279.0 | 12279.0 | 12279.0 |
| 2.5° | 12758.5 | 12498.7 | 12067.3 | 11617.7 | 11344.1 | 11024.4 | 10774.6 | 10554.8 | 10115.4 | 10029.4 | 10107.3 |
| 5° | 11997.4 | 11475.8 | 10662.7 | 9843.5 | 9298.1 | 8712.8 | 8257.3 | 7891.7 | 7334.2 | 7236.3 | 7354.2 |
| 7.5° | 10776.6 | 10153.4 | 9078.5 | 8033.5 | 7262.3 | 6531.0 | 6039.7 | 5648.1 | 5212.5 | 5024.7 | 5036.6 |
| 10° | 9723.8 | 9020.5 | 7749.8 | 6613.1 | 5981.8 | 5488.3 | 5074.6 | 4673.1 | 4231.6 | 3941.9 | 3862.0 |
| 12.5° | 9134.3 | 8325.2 | 6860.7 | 5845.8 | 5260.5 | 4741.1 | 4295.4 | 3865.9 | 3394.4 | 3098.8 | 3014.8 |
| 15° | 9032.5 | 8153.3 | 6527.2 | 5354.3 | 4621.2 | 3963.9 | 3438.4 | 2958.8 | 2473.5 | 2233.6 | 2183.7 |
| 17.5° | 9474.1 | 8461.0 | 6419.2 | 4916.9 | 4019.7 | 3208.7 | 2563.4 | 2027.8 | 1632.3 | 1512.3 | 1502.4 |
| 20° | 10321.2 | 9052.5 | 6405.3 | 4505.3 | 3426.3 | 2475.4 | 1786.1 | 1396.5 | 1222.8 | 1188.7 | 1190.8 |
| 22.5° | 11509.9 | 9969.5 | 6577.1 | 4195.5 | 2881.0 | 1846.0 | 1342.5 | 1168.8 | 1100.9 | 1068.9 | 1068.9 |
| 25° | 13048.2 | 11232.1 | 6972.6 | 3969.8 | 2407.5 | 1474.5 | 1184.8 | 1080.9 | 1016.9 | 995.0 | 998.9 |
| 27.5° | 14538.7 | 12460.8 | 7432.1 | 3791.9 | 2097.8 | 1338.6 | 1122.8 | 1028.9 | 973.0 | 950.9 | 960.9 |
| 30° | 15701.5 | 13551.7 | 7815.8 | 3550.2 | 1940.0 | 1300.7 | 1144.8 | 1049.0 | 969.0 | 935.0 | 937.0 |
| 32.5° | 16664.4 | 14506.6 | 8137.4 | 3376.4 | 1800.2 | 1114.8 | 987.0 | 944.9 | 935.0 | 895.0 | 875.0 |
| 35° | 17895.1 | 15547.7 | 8353.2 | 3380.4 | 1734.2 | 995.0 | 879.1 | 805.2 | 751.3 | 705.3 | 705.3 |
| 37.5° | 19337.6 | 16742.3 | 8582.9 | 3426.3 | 1710.3 | 925.1 | 841.2 | 767.2 | 717.2 | 673.3 | 665.4 |
| 40° | 20764.1 | 17913.1 | 8792.7 | 3470.3 | 1696.2 | 883.0 | 811.1 | 743.2 | 697.3 | 653.2 | 641.3 |
| 42.5° | 21976.9 | 18876.1 | 8980.5 | 3492.3 | 1648.3 | 879.1 | 789.3 | 727.3 | 683.3 | 635.3 | 623.3 |
| 45° | 22873.9 | 19683.2 | 9182.4 | 3526.2 | 1600.3 | 895.0 | 789.3 | 725.2 | 671.4 | 625.3 | 613.4 |
| 47.5° | 23675.0 | 20630.3 | 9520.0 | 3526.2 | 1542.4 | 865.1 | 815.1 | 727.3 | 669.2 | 621.4 | 611.3 |
| 50° | 24747.9 | 21928.9 | 10159.3 | 3444.5 | 1460.5 | 833.1 | 859.0 | 719.3 | 651.4 | 613.4 | 601.3 |
| 52.5° | 26226.3 | 23593.2 | 11174.1 | 3302.4 | 1334.6 | 771.1 | 853.1 | 715.2 | 633.3 | 593.4 | 579.3 |
| 55° | 27974.5 | 25375.2 | 12281.1 | 3136.7 | 1146.7 | 727.3 | 823.1 | 705.3 | 613.4 | 569.3 | 555.4 |
| 57.5° | 29339.1 | 26602.0 | 13060.2 | 2881.0 | 982.9 | 703.3 | 729.2 | 695.3 | 589.4 | 543.5 | 531.4 |
| 60° | 29882.5 | 26554.0 | 13274.1 | 2539.2 | 903.1 | 683.3 | 637.3 | 779.2 | 569.3 | 523.4 | 509.5 |
| 62.5° | 29588.8 | 25327.4 | 12674.6 | 2299.7 | 885.1 | 657.3 | 597.4 | 721.2 | 553.4 | 509.5 | 489.4 |
| 65° | 28232.2 | 23153.5 | 11086.3 | 2235.6 | 937.0 | 631.2 | 571.4 | 565.5 | 531.4 | 489.4 | 469.5 |
| 67.5° | 25277.3 | 19905.1 | 8876.6 | 2241.6 | 1003.0 | 605.4 | 545.5 | 517.5 | 501.4 | 467.5 | 449.5 |
| 70° | 20588.3 | 15737.3 | 6617.1 | 2257.6 | 1037.0 | 575.4 | 517.5 | 487.5 | 469.5 | 435.6 | 423.6 |
| 72.5° | 15138.1 | 12129.3 | 4806.9 | 2153.7 | 1042.9 | 541.4 | 479.4 | 453.6 | 435.6 | 399.6 | 389.5 |
| 75° | 10357.1 | 9278.2 | 3334.5 | 1784.2 | 909.1 | 493.4 | 437.6 | 413.6 | 401.6 | 357.6 | 351.6 |
| 77.5° | 7566.1 | 6964.6 | 2133.7 | 1324.6 | 701.2 | 433.5 | 385.6 | 367.5 | 359.6 | 311.7 | 303.6 |
| 80° | 6071.6 | 5510.3 | 1334.6 | 907.1 | 513.4 | 363.6 | 323.7 | 313.7 | 305.7 | 257.8 | 251.7 |
| 82.5° | 4211.6 | 3690.1 | 857.2 | 589.4 | 385.6 | 281.7 | 255.7 | 251.7 | 239.8 | 195.8 | 189.8 |
| 85° | 2221.7 | 2003.8 | 543.5 | 401.6 | 279.7 | 193.9 | 177.9 | 177.9 | 171.8 | 129.8 | 125.9 |
| 87.5° | 283.8 | 461.5 | 275.7 | 209.8 | 153.8 | 85.9 | 85.9 | 83.9 | 89.9 | 73.9 | 63.9 |
| 90° | 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12279.0 | 12279.0 | 12279.0 | 12279.0 | 12279.0 | 12279.0 | 12279.0 | 12279.0 | 12279.0 | 12279.0 | 12279.0 |
| 2.5° | 9923.5 | 10019.4 | 9927.4 | 9933.5 | 10035.4 | 10339.1 | 10476.9 | 10590.8 | 10712.6 | 10792.6 | 10828.6 |
| 5° | 7192.4 | 7416.1 | 7492.1 | 7651.9 | 7887.7 | 8275.2 | 8429.1 | 8540.9 | 8614.9 | 8658.9 | 8676.9 |
| 7.5° | 4918.8 | 5054.7 | 5206.4 | 5464.2 | 5977.7 | 6205.4 | 6307.4 | 6281.4 | 6197.4 | 6167.6 | 6137.5 |
| 10° | 3708.2 | 3654.1 | 3626.2 | 3768.0 | 4183.5 | 4413.4 | 4485.2 | 4415.3 | 4369.4 | 4379.3 | 4429.4 |
| 12.5° | 2873.0 | 2779.0 | 2665.2 | 2649.2 | 2922.9 | 3128.6 | 3174.7 | 3178.7 | 3262.6 | 3336.5 | 3446.3 |
| 15° | 2093.8 | 2083.8 | 2027.8 | 1993.9 | 2149.7 | 2317.5 | 2337.5 | 2373.5 | 2449.4 | 2503.3 | 2599.2 |
| 17.5° | 1476.5 | 1530.4 | 1574.3 | 1596.3 | 1714.1 | 1834.1 | 1812.2 | 1794.2 | 1780.1 | 1780.1 | 1826.1 |
| 20° | 1190.8 | 1226.7 | 1282.6 | 1346.6 | 1466.5 | 1550.4 | 1496.4 | 1424.5 | 1372.5 | 1356.6 | 1362.5 |
| 22.5° | 1072.8 | 1100.9 | 1132.9 | 1188.7 | 1296.7 | 1354.6 | 1296.7 | 1244.7 | 1192.7 | 1174.8 | 1168.8 |
| 25° | 1012.8 | 1049.0 | 1078.9 | 1120.8 | 1200.8 | 1240.6 | 1184.8 | 1146.7 | 1114.8 | 1092.9 | 1076.9 |
| 27.5° | 979.0 | 1011.0 | 1018.9 | 1038.9 | 1106.8 | 1142.9 | 1114.8 | 1098.8 | 1078.9 | 1058.9 | 1038.9 |
| 30° | 943.0 | 937.0 | 923.0 | 925.1 | 979.0 | 1014.9 | 1012.8 | 1016.9 | 1014.9 | 1008.9 | 1004.9 |
| 32.5° | 861.0 | 849.1 | 837.1 | 849.1 | 899.1 | 931.1 | 933.0 | 941.1 | 941.1 | 939.0 | 955.0 |
| 35° | 717.2 | 739.2 | 753.1 | 789.3 | 849.1 | 877.0 | 865.1 | 845.1 | 809.2 | 787.2 | 785.2 |
| 37.5° | 663.3 | 667.4 | 691.2 | 741.2 | 807.1 | 833.1 | 815.1 | 769.2 | 745.2 | 741.2 | 747.2 |
| 40° | 637.3 | 641.3 | 655.4 | 701.2 | 767.2 | 793.2 | 777.2 | 743.2 | 721.2 | 719.3 | 729.2 |
| 42.5° | 619.3 | 623.3 | 631.2 | 663.3 | 717.2 | 749.1 | 751.3 | 727.3 | 701.2 | 703.3 | 713.3 |
| 45° | 609.4 | 611.3 | 609.4 | 625.3 | 675.3 | 713.3 | 729.2 | 713.3 | 691.2 | 695.3 | 707.2 |
| 47.5° | 607.3 | 601.3 | 593.4 | 597.4 | 649.4 | 687.3 | 707.2 | 701.2 | 691.2 | 695.3 | 705.3 |
| 50° | 599.3 | 585.3 | 575.4 | 573.4 | 625.3 | 665.4 | 683.3 | 683.3 | 687.3 | 695.3 | 705.3 |
| 52.5° | 575.4 | 559.5 | 559.5 | 553.4 | 609.4 | 647.3 | 659.3 | 661.3 | 667.4 | 681.3 | 695.3 |
| 55° | 545.5 | 539.4 | 545.5 | 535.4 | 597.4 | 633.3 | 639.4 | 643.4 | 647.3 | 659.3 | 679.3 |
| 57.5° | 519.5 | 511.5 | 525.5 | 521.5 | 587.4 | 619.3 | 619.3 | 627.3 | 627.3 | 643.4 | 659.3 |
| 60° | 505.4 | 489.4 | 495.4 | 499.5 | 573.4 | 607.3 | 603.3 | 611.3 | 615.3 | 629.4 | 641.3 |
| 62.5° | 487.5 | 473.4 | 473.4 | 483.5 | 557.4 | 589.4 | 587.4 | 593.4 | 609.4 | 613.4 | 625.3 |
| 65° | 465.5 | 459.6 | 453.6 | 465.5 | 541.4 | 569.3 | 571.4 | 579.3 | 593.4 | 597.4 | 607.3 |
| 67.5° | 443.6 | 445.5 | 433.5 | 445.5 | 527.5 | 549.5 | 549.5 | 565.5 | 571.4 | 579.3 | 589.4 |
| 70° | 419.6 | 421.6 | 411.6 | 425.5 | 517.5 | 527.5 | 525.5 | 547.4 | 551.4 | 557.4 | 567.4 |
| 72.5° | 389.5 | 389.5 | 385.6 | 405.6 | 501.4 | 505.4 | 501.4 | 519.5 | 521.5 | 527.5 | 531.4 |
| 75° | 357.6 | 357.6 | 353.7 | 381.6 | 491.6 | 481.5 | 469.5 | 483.5 | 487.5 | 491.6 | 491.6 |
| 77.5° | 315.7 | 319.6 | 319.6 | 353.7 | 457.4 | 471.5 | 431.5 | 439.5 | 445.5 | 447.5 | 441.5 |
| 80° | 263.7 | 273.8 | 277.7 | 321.7 | 383.5 | 435.6 | 385.6 | 391.7 | 393.5 | 393.5 | 385.6 |
| 82.5° | 201.8 | 219.7 | 229.7 | 277.7 | 293.7 | 365.6 | 335.6 | 341.6 | 335.6 | 323.7 | 319.6 |
| 85° | 139.9 | 163.9 | 175.8 | 211.8 | 221.8 | 281.7 | 279.7 | 279.7 | 267.8 | 251.7 | 249.6 |
| 87.5° | 75.9 | 89.9 | 97.8 | 125.9 | 151.9 | 189.8 | 205.8 | 199.9 | 189.8 | 179.8 | 181.7 |
| 90° | 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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 CATALOG NUMBER: GAN-AF-10-LED-U-SLR-7027-800

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12279.0 | 12279.0 | 12279.0 | 12279.0 | 12279.0 | 12279.0 | 12279.0 | 12279.0 | 12279.0 | 12279.0 | 12279.0 |
| 2.5° | 11016.4 | 11288.1 | 11721.7 | 12053.3 | 12387.0 | 12708.6 | 13056.2 | 13322.0 | 13547.7 | 13635.6 | 13903.3 |
| 5° | 8858.6 | 9198.4 | 9607.8 | 10347.0 | 10870.5 | 11447.9 | 12115.3 | 12998.2 | 13337.9 | 13807.5 | 14576.6 |
| 7.5° | 6263.4 | 6571.1 | 7230.4 | 7827.7 | 8568.9 | 9386.1 | 10287.1 | 11505.9 | 11951.4 | 12704.5 | 13957.2 |
| 10° | 4677.0 | 5034.7 | 5564.1 | 6067.6 | 6720.8 | 7556.1 | 8590.9 | 9953.5 | 10494.9 | 11312.0 | 12754.6 |
| 12.5° | 3768.0 | 4189.5 | 4751.0 | 5224.5 | 5730.0 | 6319.3 | 7324.3 | 8818.8 | 9544.0 | 10259.2 | 11717.6 |
| 15° | 2895.0 | 3336.5 | 3858.0 | 4459.2 | 5016.8 | 5652.0 | 6704.9 | 8339.1 | 9174.3 | 9919.5 | 11164.2 |
| 17.5° | 2003.8 | 2381.4 | 3038.7 | 3666.2 | 4379.3 | 5192.6 | 6533.2 | 8441.2 | 9438.0 | 10297.1 | 11260.2 |
| 20° | 1420.5 | 1636.3 | 2175.8 | 2903.0 | 3791.9 | 4812.8 | 6501.2 | 8976.6 | 10273.1 | 11254.1 | 11875.5 |
| 22.5° | 1194.7 | 1274.7 | 1588.4 | 2255.6 | 3282.5 | 4529.3 | 6613.1 | 9727.7 | 11400.0 | 12652.6 | 12856.5 |
| 25° | 1088.8 | 1136.8 | 1300.7 | 1770.1 | 2829.0 | 4323.5 | 6990.6 | 10846.6 | 12794.5 | 14051.2 | 14015.3 |
| 27.5° | 1031.0 | 1080.9 | 1188.7 | 1494.4 | 2487.3 | 4195.5 | 7368.3 | 12173.1 | 14388.8 | 15569.6 | 15122.1 |
| 30° | 1012.8 | 1080.9 | 1194.7 | 1408.5 | 2243.6 | 3993.8 | 7678.0 | 13337.9 | 15615.5 | 16594.5 | 15625.5 |
| 32.5° | 998.9 | 1008.9 | 1060.9 | 1214.7 | 2011.8 | 3758.0 | 7887.7 | 14382.9 | 16816.4 | 17569.5 | 16350.8 |
| 35° | 807.1 | 857.2 | 941.1 | 1088.8 | 1876.0 | 3616.1 | 7887.7 | 15283.9 | 17999.0 | 18554.4 | 17042.0 |
| 37.5° | 777.2 | 821.1 | 895.0 | 1021.0 | 1800.2 | 3546.2 | 7729.8 | 16153.0 | 19207.7 | 19671.3 | 17611.5 |
| 40° | 761.3 | 797.2 | 867.0 | 969.0 | 1768.1 | 3466.3 | 7500.0 | 16920.1 | 20388.6 | 20790.1 | 18142.9 |
| 42.5° | 749.1 | 781.2 | 847.1 | 937.0 | 1726.2 | 3378.4 | 7314.3 | 17535.5 | 21413.3 | 21745.0 | 18650.3 |
| 45° | 743.2 | 777.2 | 849.1 | 953.0 | 1642.3 | 3262.6 | 7252.3 | 18200.7 | 22256.5 | 22542.2 | 19199.7 |
| 47.5° | 743.2 | 783.2 | 859.0 | 987.0 | 1542.4 | 3142.7 | 7446.1 | 19077.8 | 23053.7 | 23193.6 | 19847.1 |
| 50° | 737.1 | 781.2 | 887.0 | 953.0 | 1396.5 | 2990.8 | 7901.8 | 20182.7 | 23916.7 | 23932.7 | 20666.1 |
| 52.5° | 725.2 | 777.2 | 955.0 | 933.0 | 1228.7 | 2791.0 | 8517.0 | 21601.3 | 25193.4 | 25289.4 | 21948.8 |
| 55° | 711.3 | 771.1 | 937.0 | 887.0 | 1090.8 | 2553.3 | 9020.5 | 23325.4 | 26987.5 | 27253.3 | 23834.9 |
| 57.5° | 693.2 | 763.2 | 907.1 | 823.1 | 1000.9 | 2247.6 | 9202.2 | 24588.0 | 28240.1 | 28907.5 | 25960.6 |
| 60° | 677.3 | 757.2 | 819.2 | 785.2 | 944.9 | 1989.8 | 8850.7 | 24338.3 | 28154.3 | 29592.8 | 27844.7 |
| 62.5° | 661.3 | 763.2 | 747.2 | 761.3 | 919.1 | 1824.1 | 7931.7 | 22338.4 | 26729.7 | 28885.4 | 29241.2 |
| 65° | 643.4 | 709.2 | 705.3 | 741.2 | 913.0 | 1758.2 | 6575.1 | 19339.6 | 23976.8 | 26649.8 | 29570.8 |
| 67.5° | 619.3 | 655.4 | 675.3 | 715.2 | 933.0 | 1700.2 | 5306.4 | 15953.2 | 20150.7 | 23299.3 | 27852.6 |
| 70° | 593.4 | 623.3 | 645.3 | 683.3 | 921.0 | 1674.3 | 4413.4 | 12580.8 | 15989.1 | 19095.9 | 24462.1 |
| 72.5° | 559.5 | 585.3 | 605.4 | 641.3 | 909.1 | 1660.2 | 3728.1 | 10131.4 | 11937.3 | 14185.0 | 19889.1 |
| 75° | 519.5 | 543.5 | 557.4 | 593.4 | 871.0 | 1520.4 | 2930.9 | 8573.0 | 8932.6 | 9867.6 | 15841.3 |
| 77.5° | 473.4 | 491.6 | 503.5 | 543.5 | 771.1 | 1264.6 | 2119.8 | 6613.1 | 6936.7 | 7164.4 | 12145.2 |
| 80° | 419.6 | 437.6 | 443.6 | 481.5 | 639.4 | 988.9 | 1382.5 | 4884.9 | 5188.5 | 5240.4 | 7931.7 |
| 82.5° | 357.6 | 375.6 | 375.6 | 411.6 | 523.4 | 711.3 | 907.1 | 3346.5 | 3406.5 | 3582.3 | 5606.1 |
| 85° | 287.6 | 301.7 | 301.7 | 319.6 | 405.6 | 531.4 | 623.3 | 1680.2 | 1662.3 | 1897.9 | 4856.9 |
| 87.5° | 205.8 | 215.8 | 225.7 | 229.7 | 289.8 | 351.6 | 375.6 | 511.5 | 337.7 | 387.6 | 3118.7 |
| 90° | 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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| 22.5° | 11376.0 | 10337.1 | 10205.3 | 10750.6 | 11839.5 | 12928.3 | 12658.6 | 11509.9 |
| 25° | 11755.6 | 10361.1 | 10255.2 | 10782.6 | 12151.3 | 13901.4 | 14095.1 | 13048.2 |
| 27.5° | 12353.0 | 10513.0 | 10373.1 | 10914.4 | 12564.8 | 14718.5 | 15509.6 | 14538.7 |
| 30° | 12920.4 | 10776.6 | 10602.9 | 11174.1 | 12942.3 | 15042.1 | 16376.7 | 15701.5 |
| 32.5° | 13609.6 | 11270.1 | 10964.4 | 11651.7 | 13409.9 | 15557.6 | 17149.9 | 16664.4 |
| 35° | 14284.9 | 11973.4 | 11593.7 | 12389.0 | 13931.4 | 16199.0 | 18032.9 | 17895.1 |
| 37.5° | 15026.2 | 12892.5 | 12578.7 | 13341.9 | 14644.6 | 16804.2 | 19159.8 | 19337.6 |
| 40° | 15817.4 | 14111.1 | 13739.4 | 14732.5 | 15751.4 | 17563.5 | 20336.5 | 20764.1 |
| 42.5° | 16614.5 | 15463.8 | 15020.2 | 16027.1 | 16968.2 | 18312.7 | 21343.5 | 21976.9 |
| 45° | 17527.5 | 16932.2 | 16722.4 | 17811.2 | 18136.9 | 19025.9 | 22086.6 | 22873.9 |
| 47.5° | 18590.5 | 18598.4 | 18936.0 | 19371.6 | 19315.6 | 19833.0 | 22833.8 | 23675.0 |
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| 55° | 23185.6 | 25798.9 | 26715.9 | 26579.9 | 23343.4 | 23201.6 | 27558.9 | 27974.5 |
| 57.5° | 25343.3 | 28350.1 | 29193.2 | 28581.8 | 25149.5 | 24783.9 | 29251.1 | 29339.1 |
| 60° | 27239.2 | 30372.0 | 31111.2 | 30433.9 | 26971.5 | 26468.1 | 30308.1 | 29882.5 |
| 62.5° | 28294.2 | 31057.2 | 31576.7 | 30847.4 | 28220.3 | 28262.1 | 30539.8 | 29588.8 |
| 65° | 27822.7 | 29325.1 | 29493.0 | 29433.0 | 27898.7 | 29303.2 | 29706.7 | 28232.2 |
| 67.5° | 25241.4 | 24945.8 | 25227.5 | 25617.0 | 25141.5 | 27932.5 | 27399.2 | 25277.3 |
| 70° | 20694.2 | 19069.8 | 19631.3 | 19893.1 | 20108.7 | 24036.7 | 23780.9 | 20588.3 |
| 72.5° | 15595.6 | 13360.0 | 13803.4 | 13749.5 | 14748.5 | 19279.7 | 18494.5 | 15138.1 |
| 75° | 11050.3 | 9058.5 | 9114.5 | 9092.5 | 10291.2 | 15084.1 | 13391.9 | 10357.1 |
| 77.5° | 7731.8 | 6563.0 | 6593.0 | 6716.8 | 6918.7 | 11376.0 | 9567.8 | 7566.1 |
| 80° | 5316.3 | 4980.7 | 5146.6 | 5156.6 | 4795.0 | 7641.9 | 7068.6 | 6071.6 |
| 82.5° | 3959.8 | 3462.3 | 3422.5 | 3480.4 | 3758.0 | 6191.5 | 5432.3 | 4211.6 |
| 85° | 3242.6 | 2049.8 | 1648.3 | 2065.8 | 3330.5 | 6131.6 | 3608.2 | 2221.7 |
| 87.5° | 1826.1 | 973.0 | 439.5 | 815.1 | 1328.7 | 4059.7 | 1042.9 | 283.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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