

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: P193065

Luminaire Tested: **GAN-AF-07-LED-U-SLR-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193065
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-07-LED-U-SLR-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 28912.2 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

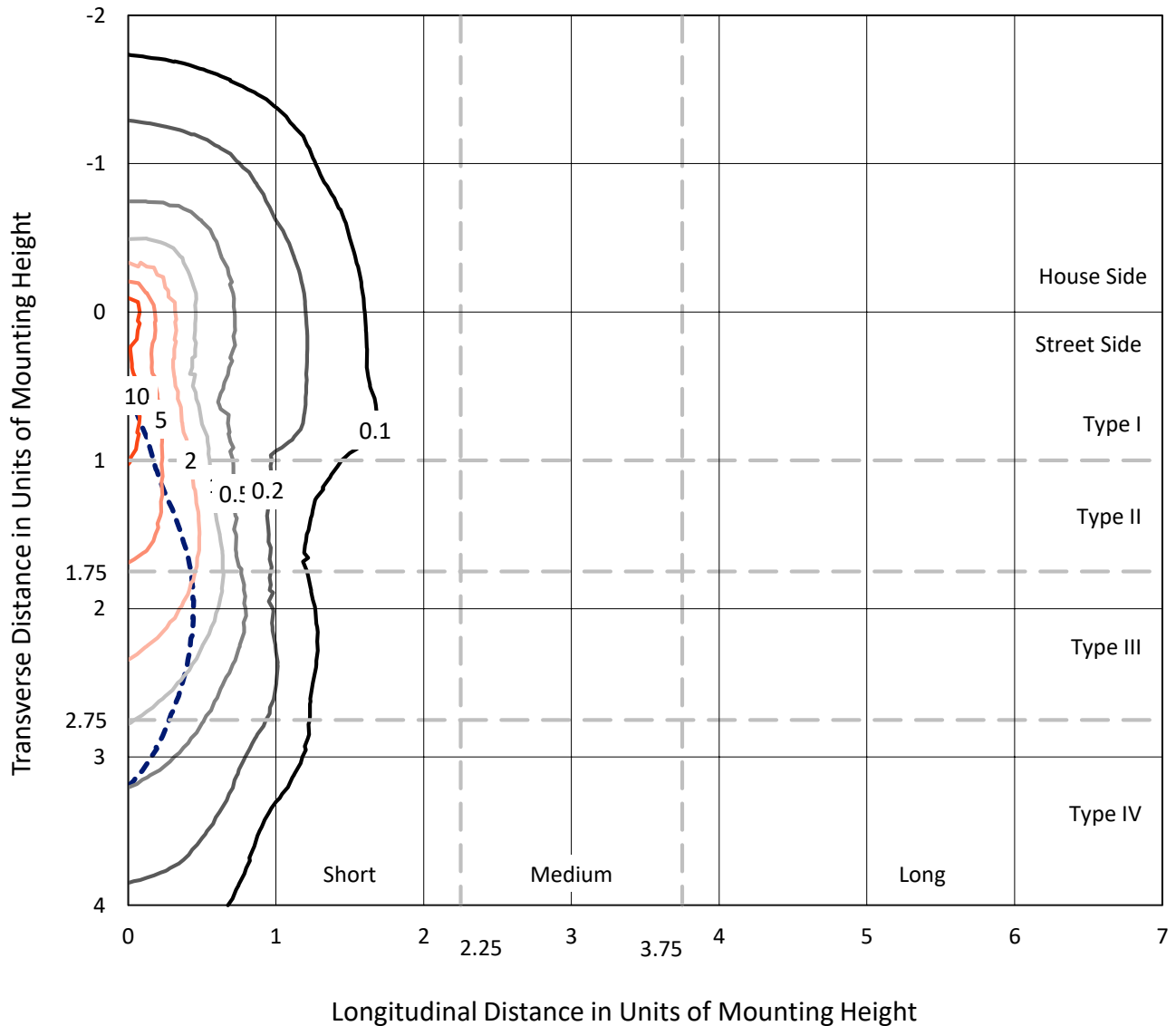
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P193065
 CATALOG NUMBER: GAN-AF-07-LED-U-SLR-7030-800

Iso-Footcandle Lines of Horizontal Illumination

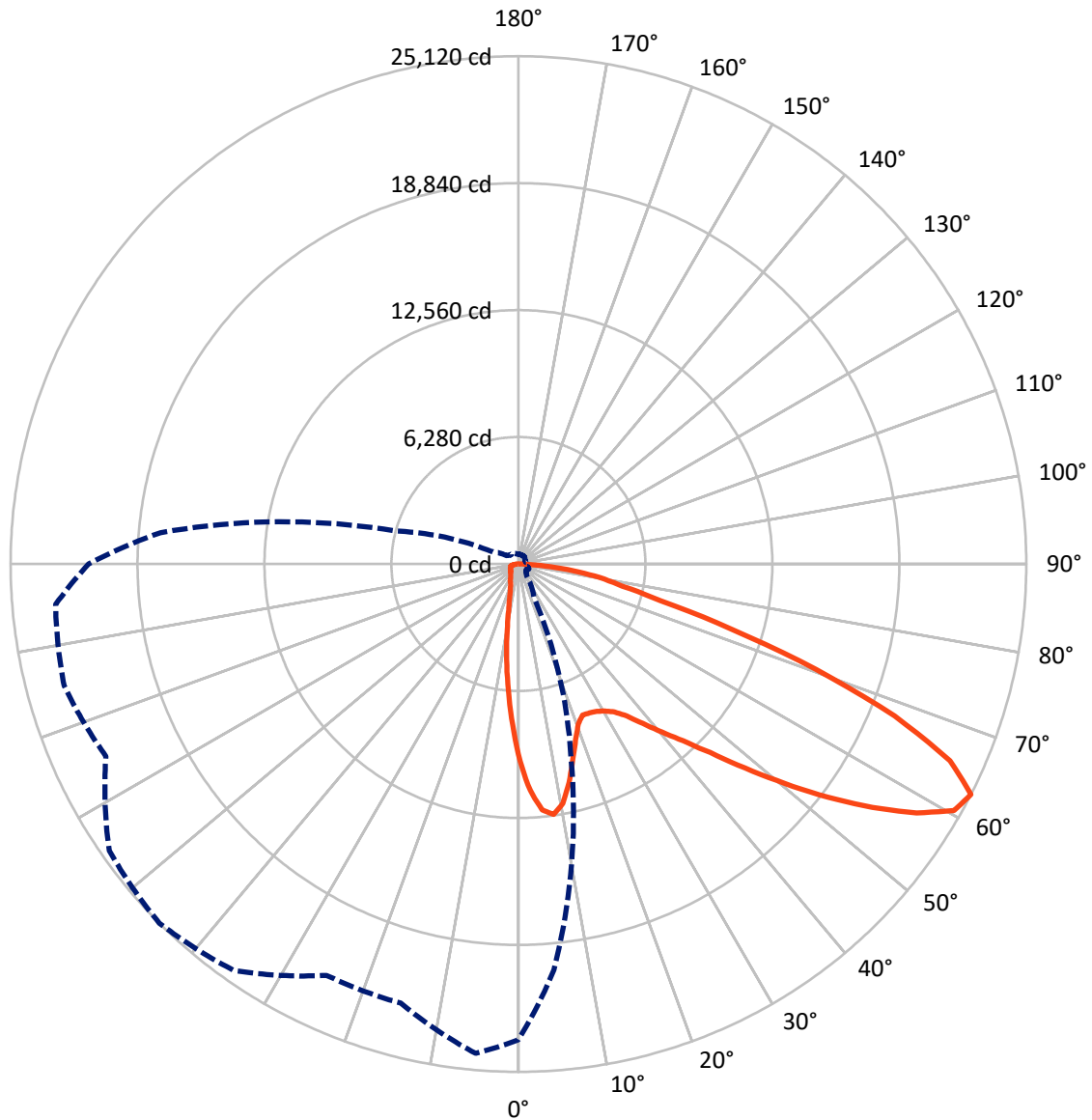
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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 | 4784.6 | 0.0 | 4784.6 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 24127.6 | 0.0 | 24127.6 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 28912.2 | 0.0 | 28912.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 711.1 | 2.5 |
| 10°-20° | 1303.9 | 4.5 |
| 20°-30° | 1901.1 | 6.6 |
| 30°-40° | 2928.0 | 10.1 |
| 40°-50° | 4309.2 | 14.9 |
| 50°-60° | 6320.7 | 21.9 |
| 60°-70° | 7065.6 | 24.4 |
| 70°-80° | 3459.2 | 12.0 |
| 80°-90° | 913.3 | 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° | 28912.2 | 100.0 |
| 0°-180° | 28912.2 | 100.0 |

Coefficient of Utilization



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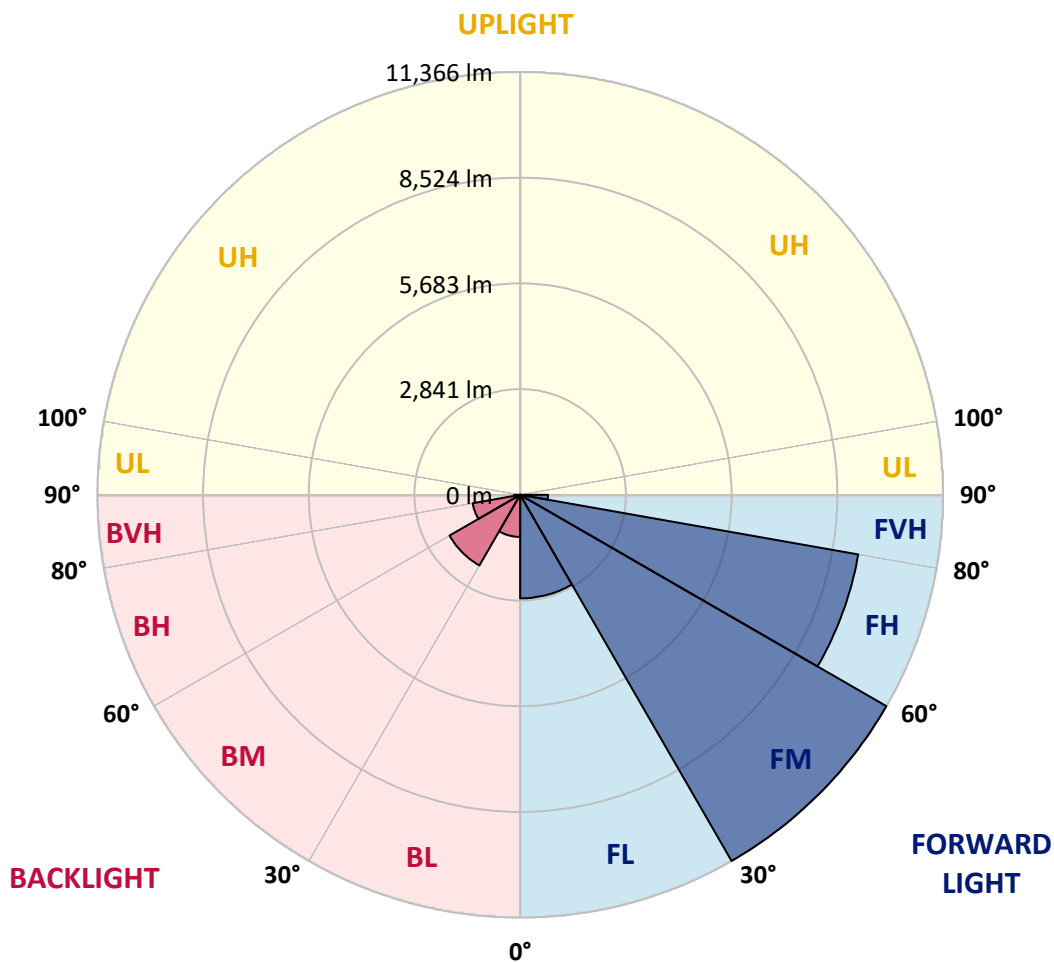
CATALOG NUMBER: GAN-AF-07-LED-U-SLR-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2784.1 | 9.6 | | | |
| FM | (30°-60°) | 11365.6 | 39.3 | | | |
| FH | (60°-80°) | 9227.8 | 31.9 | | | G4/12000 |
| FVH | (80°-90°) | 750.1 | 2.6 | | | G5 |
| BL | (0°-30°) | 1131.9 | 3.9 | B3/2500 | | |
| BM | (30°-60°) | 2192.2 | 7.6 | B2/2500 | | |
| BH | (60°-80°) | 1297.1 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 163.3 | 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: P193065
 CATALOG NUMBER: GAN-AF-07-LED-U-SLR-7030-800

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9768.1 | 9768.1 | 9768.1 | 9768.1 | 9768.1 | 9768.1 | 9768.1 | 9768.1 | 9768.1 | 9768.1 | 9768.1 |
| 2.5° | 10149.5 | 9942.9 | 9599.6 | 9242.0 | 9024.3 | 8770.0 | 8571.3 | 8396.5 | 8046.8 | 7978.5 | 8040.5 |
| 5° | 9544.1 | 9129.1 | 8482.4 | 7830.7 | 7396.8 | 6931.1 | 6568.7 | 6277.9 | 5834.5 | 5756.6 | 5850.4 |
| 7.5° | 8572.9 | 8077.0 | 7221.9 | 6390.8 | 5777.3 | 5195.6 | 4804.5 | 4493.1 | 4146.6 | 3997.1 | 4006.7 |
| 10° | 7735.3 | 7175.9 | 6165.1 | 5260.8 | 4758.5 | 4365.9 | 4036.9 | 3717.4 | 3366.3 | 3135.7 | 3072.2 |
| 12.5° | 7266.5 | 6622.7 | 5457.8 | 4650.4 | 4184.7 | 3771.5 | 3417.1 | 3075.4 | 2700.4 | 2465.1 | 2398.3 |
| 15° | 7185.4 | 6486.0 | 5192.3 | 4259.5 | 3676.1 | 3153.2 | 2735.3 | 2353.8 | 1967.6 | 1776.9 | 1737.1 |
| 17.5° | 7536.7 | 6730.8 | 5106.6 | 3911.4 | 3197.8 | 2552.6 | 2039.1 | 1613.2 | 1298.5 | 1203.2 | 1195.2 |
| 20° | 8210.5 | 7201.3 | 5095.5 | 3583.9 | 2725.7 | 1969.2 | 1420.9 | 1110.9 | 972.6 | 945.6 | 947.3 |
| 22.5° | 9156.2 | 7930.8 | 5232.1 | 3337.7 | 2291.8 | 1468.6 | 1068.0 | 929.8 | 875.7 | 850.2 | 850.2 |
| 25° | 10379.9 | 8935.3 | 5546.8 | 3158.0 | 1915.2 | 1172.9 | 942.5 | 859.9 | 808.9 | 791.5 | 794.7 |
| 27.5° | 11565.6 | 9912.8 | 5912.3 | 3016.5 | 1668.8 | 1064.8 | 893.2 | 818.5 | 774.0 | 756.5 | 764.5 |
| 30° | 12490.6 | 10780.5 | 6217.5 | 2824.3 | 1543.3 | 1034.6 | 910.6 | 834.4 | 770.9 | 743.8 | 745.3 |
| 32.5° | 13256.7 | 11540.2 | 6473.4 | 2686.0 | 1432.0 | 886.8 | 785.1 | 751.8 | 743.8 | 712.1 | 696.1 |
| 35° | 14235.7 | 12368.2 | 6645.0 | 2689.2 | 1379.5 | 791.5 | 699.3 | 640.5 | 597.5 | 561.0 | 561.0 |
| 37.5° | 15383.2 | 13318.7 | 6827.8 | 2725.7 | 1360.5 | 735.9 | 669.1 | 610.3 | 570.6 | 535.6 | 529.3 |
| 40° | 16518.1 | 14250.0 | 6994.7 | 2760.7 | 1349.4 | 702.5 | 645.2 | 591.2 | 554.7 | 519.7 | 510.1 |
| 42.5° | 17482.8 | 15016.0 | 7144.1 | 2778.1 | 1311.2 | 699.3 | 627.8 | 578.5 | 543.6 | 505.5 | 495.9 |
| 45° | 18196.4 | 15658.2 | 7304.6 | 2805.2 | 1273.1 | 712.1 | 627.8 | 576.9 | 534.1 | 497.4 | 488.0 |
| 47.5° | 18833.7 | 16411.5 | 7573.2 | 2805.2 | 1227.0 | 688.3 | 648.5 | 578.5 | 532.4 | 494.3 | 486.3 |
| 50° | 19687.2 | 17444.7 | 8081.8 | 2740.0 | 1161.9 | 662.7 | 683.4 | 572.2 | 518.1 | 488.0 | 478.4 |
| 52.5° | 20863.3 | 18768.5 | 8889.3 | 2627.1 | 1061.7 | 613.5 | 678.6 | 569.0 | 503.8 | 472.0 | 460.8 |
| 55° | 22253.9 | 20186.2 | 9769.6 | 2495.3 | 912.4 | 578.5 | 654.8 | 561.0 | 488.0 | 453.0 | 441.9 |
| 57.5° | 23339.5 | 21162.1 | 10389.6 | 2291.8 | 782.0 | 559.4 | 580.0 | 553.1 | 468.8 | 432.3 | 422.8 |
| 60° | 23771.7 | 21123.9 | 10559.6 | 2020.1 | 718.4 | 543.6 | 507.0 | 619.8 | 453.0 | 416.4 | 405.3 |
| 62.5° | 23538.2 | 20148.1 | 10082.8 | 1829.3 | 704.0 | 523.0 | 475.2 | 573.7 | 440.2 | 405.3 | 389.4 |
| 65° | 22459.0 | 18418.9 | 8819.3 | 1778.5 | 745.3 | 502.3 | 454.5 | 449.8 | 422.8 | 389.4 | 373.4 |
| 67.5° | 20108.4 | 15834.6 | 7061.4 | 1783.2 | 797.8 | 481.7 | 433.9 | 411.7 | 398.9 | 371.9 | 357.6 |
| 70° | 16378.2 | 12519.3 | 5263.9 | 1796.0 | 824.9 | 457.7 | 411.7 | 387.8 | 373.4 | 346.5 | 336.9 |
| 72.5° | 12042.4 | 9648.9 | 3824.0 | 1713.3 | 829.6 | 430.7 | 381.5 | 360.8 | 346.5 | 317.8 | 310.0 |
| 75° | 8239.1 | 7380.9 | 2652.6 | 1419.3 | 723.2 | 392.6 | 348.1 | 329.0 | 319.5 | 284.5 | 279.7 |
| 77.5° | 6018.9 | 5540.4 | 1697.5 | 1053.7 | 557.9 | 344.9 | 306.7 | 292.5 | 286.0 | 247.9 | 241.6 |
| 80° | 4830.1 | 4383.4 | 1061.7 | 721.5 | 408.4 | 289.2 | 257.6 | 249.5 | 243.2 | 205.1 | 200.3 |
| 82.5° | 3350.3 | 2935.5 | 681.8 | 468.8 | 306.7 | 224.1 | 203.4 | 200.3 | 190.7 | 155.8 | 151.0 |
| 85° | 1767.4 | 1594.1 | 432.3 | 319.5 | 222.6 | 154.2 | 141.5 | 141.5 | 136.7 | 103.4 | 100.1 |
| 87.5° | 225.7 | 367.1 | 219.3 | 166.8 | 122.4 | 68.4 | 68.4 | 66.7 | 71.6 | 58.8 | 50.8 |
| 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-07-LED-U-SLR-7030-800

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9768.1 | 9768.1 | 9768.1 | 9768.1 | 9768.1 | 9768.1 | 9768.1 | 9768.1 | 9768.1 | 9768.1 | 9768.1 |
| 2.5° | 7894.3 | 7970.6 | 7897.5 | 7902.1 | 7983.2 | 8224.8 | 8334.6 | 8425.1 | 8522.0 | 8585.6 | 8614.2 |
| 5° | 5721.6 | 5899.7 | 5960.0 | 6087.2 | 6274.8 | 6583.1 | 6705.5 | 6794.4 | 6853.3 | 6888.2 | 6902.6 |
| 7.5° | 3913.0 | 4021.1 | 4141.8 | 4346.9 | 4755.3 | 4936.5 | 5017.5 | 4996.9 | 4930.1 | 4906.3 | 4882.5 |
| 10° | 2949.8 | 2907.0 | 2884.7 | 2997.5 | 3328.0 | 3510.8 | 3568.1 | 3512.4 | 3475.9 | 3483.8 | 3523.6 |
| 12.5° | 2285.4 | 2210.8 | 2120.1 | 2107.5 | 2325.2 | 2488.9 | 2525.4 | 2528.7 | 2595.4 | 2654.2 | 2741.7 |
| 15° | 1665.6 | 1657.7 | 1613.2 | 1586.1 | 1710.1 | 1843.6 | 1859.5 | 1888.1 | 1948.5 | 1991.5 | 2067.7 |
| 17.5° | 1174.5 | 1217.4 | 1252.4 | 1269.9 | 1363.7 | 1459.0 | 1441.5 | 1427.3 | 1416.1 | 1416.1 | 1452.7 |
| 20° | 947.3 | 975.9 | 1020.4 | 1071.2 | 1166.6 | 1233.3 | 1190.4 | 1133.2 | 1091.8 | 1079.2 | 1084.0 |
| 22.5° | 853.5 | 875.7 | 901.2 | 945.6 | 1031.5 | 1077.7 | 1031.5 | 990.1 | 948.8 | 934.5 | 929.8 |
| 25° | 805.8 | 834.4 | 858.2 | 891.7 | 955.2 | 986.9 | 942.5 | 912.4 | 886.8 | 869.3 | 856.7 |
| 27.5° | 778.8 | 804.2 | 810.6 | 826.4 | 880.5 | 909.1 | 886.8 | 874.2 | 858.2 | 842.4 | 826.4 |
| 30° | 750.2 | 745.3 | 734.2 | 735.9 | 778.8 | 807.4 | 805.8 | 808.9 | 807.4 | 802.6 | 799.4 |
| 32.5° | 685.0 | 675.4 | 665.9 | 675.4 | 715.2 | 740.7 | 742.2 | 748.5 | 748.5 | 747.0 | 759.7 |
| 35° | 570.6 | 588.1 | 599.2 | 627.8 | 675.4 | 697.7 | 688.3 | 672.3 | 643.6 | 626.2 | 624.6 |
| 37.5° | 527.6 | 530.9 | 549.9 | 589.7 | 642.1 | 662.7 | 648.5 | 611.9 | 592.8 | 589.7 | 594.4 |
| 40° | 507.0 | 510.1 | 521.2 | 557.9 | 610.3 | 631.0 | 618.3 | 591.2 | 573.7 | 572.2 | 580.0 |
| 42.5° | 492.6 | 495.9 | 502.3 | 527.6 | 570.6 | 596.0 | 597.5 | 578.5 | 557.9 | 559.4 | 567.4 |
| 45° | 484.8 | 486.3 | 484.8 | 497.4 | 537.2 | 567.4 | 580.0 | 567.4 | 549.9 | 553.1 | 562.5 |
| 47.5° | 483.2 | 478.4 | 472.0 | 475.2 | 516.6 | 546.8 | 562.5 | 557.9 | 549.9 | 553.1 | 561.0 |
| 50° | 476.8 | 465.7 | 457.7 | 456.1 | 497.4 | 529.3 | 543.6 | 543.6 | 546.8 | 553.1 | 561.0 |
| 52.5° | 457.7 | 445.0 | 445.0 | 440.2 | 484.8 | 514.9 | 524.5 | 526.1 | 530.9 | 541.9 | 553.1 |
| 55° | 433.9 | 429.2 | 433.9 | 425.9 | 475.2 | 503.8 | 508.6 | 511.8 | 514.9 | 524.5 | 540.4 |
| 57.5° | 413.2 | 406.9 | 418.0 | 414.8 | 467.3 | 492.6 | 492.6 | 499.1 | 499.1 | 511.8 | 524.5 |
| 60° | 402.1 | 389.4 | 394.2 | 397.3 | 456.1 | 483.2 | 479.9 | 486.3 | 489.5 | 500.6 | 510.1 |
| 62.5° | 387.8 | 376.7 | 376.7 | 384.6 | 443.4 | 468.8 | 467.3 | 472.0 | 484.8 | 488.0 | 497.4 |
| 65° | 370.3 | 365.6 | 360.8 | 370.3 | 430.7 | 453.0 | 454.5 | 460.8 | 472.0 | 475.2 | 483.2 |
| 67.5° | 352.8 | 354.4 | 344.9 | 354.4 | 419.5 | 437.0 | 437.0 | 449.8 | 454.5 | 460.8 | 468.8 |
| 70° | 333.8 | 335.3 | 327.4 | 338.4 | 411.7 | 419.5 | 418.0 | 435.5 | 438.6 | 443.4 | 451.4 |
| 72.5° | 310.0 | 310.0 | 306.7 | 322.7 | 398.9 | 402.1 | 398.9 | 413.2 | 414.8 | 419.5 | 422.8 |
| 75° | 284.5 | 284.5 | 281.4 | 303.5 | 390.9 | 383.1 | 373.4 | 384.6 | 387.8 | 390.9 | 390.9 |
| 77.5° | 251.1 | 254.2 | 254.2 | 281.4 | 364.0 | 375.1 | 343.3 | 349.6 | 354.4 | 355.9 | 351.3 |
| 80° | 209.8 | 217.8 | 220.9 | 255.8 | 305.2 | 346.5 | 306.7 | 311.5 | 313.1 | 313.1 | 306.7 |
| 82.5° | 160.5 | 174.9 | 182.8 | 220.9 | 233.6 | 290.8 | 267.0 | 271.7 | 267.0 | 257.6 | 254.2 |
| 85° | 111.2 | 130.3 | 139.9 | 168.5 | 176.5 | 224.1 | 222.6 | 222.6 | 212.9 | 200.3 | 198.7 |
| 87.5° | 60.4 | 71.6 | 77.9 | 100.1 | 120.8 | 151.0 | 163.7 | 159.0 | 151.0 | 143.0 | 144.7 |
| 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-07-LED-U-SLR-7030-800

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 9768.1 | 9768.1 | 9768.1 | 9768.1 | 9768.1 | 9768.1 | 9768.1 | 9768.1 | 9768.1 | 9768.1 | 9768.1 |
| 2.5° | 8763.5 | 8979.8 | 9324.6 | 9588.5 | 9853.9 | 10109.8 | 10386.3 | 10597.7 | 10777.4 | 10847.3 | 11060.2 |
| 5° | 7047.1 | 7317.3 | 7643.1 | 8231.1 | 8647.7 | 9107.0 | 9637.8 | 10340.3 | 10610.5 | 10984.0 | 11595.8 |
| 7.5° | 4982.6 | 5227.3 | 5751.9 | 6227.0 | 6816.6 | 7466.8 | 8183.5 | 9152.9 | 9507.4 | 10106.6 | 11103.2 |
| 10° | 3720.6 | 4005.1 | 4426.3 | 4826.8 | 5346.5 | 6010.9 | 6834.1 | 7918.1 | 8348.8 | 8998.8 | 10146.4 |
| 12.5° | 2997.5 | 3332.9 | 3779.5 | 4156.1 | 4558.2 | 5027.1 | 5826.6 | 7015.3 | 7592.3 | 8161.2 | 9321.5 |
| 15° | 2302.9 | 2654.2 | 3069.0 | 3547.4 | 3990.8 | 4496.2 | 5333.8 | 6633.9 | 7298.3 | 7891.0 | 8881.2 |
| 17.5° | 1594.1 | 1894.4 | 2417.4 | 2916.4 | 3483.8 | 4130.6 | 5197.1 | 6715.0 | 7508.1 | 8191.5 | 8957.5 |
| 20° | 1130.1 | 1301.8 | 1730.7 | 2309.3 | 3016.5 | 3828.8 | 5171.7 | 7140.8 | 8172.4 | 8952.8 | 9447.0 |
| 22.5° | 950.4 | 1014.0 | 1263.5 | 1794.4 | 2611.3 | 3603.1 | 5260.8 | 7738.5 | 9068.7 | 10065.3 | 10227.4 |
| 25° | 866.2 | 904.3 | 1034.6 | 1408.2 | 2250.5 | 3439.4 | 5561.1 | 8628.5 | 10178.1 | 11177.9 | 11149.3 |
| 27.5° | 820.1 | 859.9 | 945.6 | 1188.8 | 1978.6 | 3337.7 | 5861.5 | 9683.8 | 11446.4 | 12385.7 | 12029.8 |
| 30° | 805.8 | 859.9 | 950.4 | 1120.5 | 1784.9 | 3177.0 | 6107.8 | 10610.5 | 12422.3 | 13201.0 | 12430.2 |
| 32.5° | 794.7 | 802.6 | 843.9 | 966.3 | 1600.4 | 2989.6 | 6274.8 | 11441.6 | 13377.4 | 13976.7 | 13007.2 |
| 35° | 642.1 | 681.8 | 748.5 | 866.2 | 1492.4 | 2876.7 | 6274.8 | 12158.5 | 14318.4 | 14760.2 | 13557.1 |
| 37.5° | 618.3 | 653.3 | 712.1 | 812.2 | 1432.0 | 2821.1 | 6149.1 | 12849.9 | 15279.9 | 15648.6 | 14010.1 |
| 40° | 605.6 | 634.1 | 689.8 | 770.9 | 1406.6 | 2757.4 | 5966.4 | 13460.0 | 16219.2 | 16538.7 | 14432.8 |
| 42.5° | 596.0 | 621.4 | 673.9 | 745.3 | 1373.2 | 2687.6 | 5818.6 | 13949.6 | 17034.6 | 17298.4 | 14836.6 |
| 45° | 591.2 | 618.3 | 675.4 | 758.1 | 1306.4 | 2595.4 | 5769.3 | 14478.9 | 17705.3 | 17932.5 | 15273.6 |
| 47.5° | 591.2 | 623.0 | 683.4 | 785.1 | 1227.0 | 2500.1 | 5923.5 | 15176.6 | 18339.3 | 18450.7 | 15788.5 |
| 50° | 586.5 | 621.4 | 705.7 | 758.1 | 1110.9 | 2379.2 | 6285.8 | 16055.5 | 19026.0 | 19038.8 | 16440.1 |
| 52.5° | 576.9 | 618.3 | 759.7 | 742.2 | 977.5 | 2220.2 | 6775.3 | 17184.0 | 20041.7 | 20117.9 | 17460.5 |
| 55° | 565.9 | 613.5 | 745.3 | 705.7 | 867.7 | 2031.1 | 7175.9 | 18555.6 | 21468.8 | 21680.2 | 18960.9 |
| 57.5° | 551.5 | 607.2 | 721.5 | 654.8 | 796.3 | 1788.0 | 7320.5 | 19560.0 | 22465.4 | 22996.3 | 20651.8 |
| 60° | 538.7 | 602.3 | 651.6 | 624.6 | 751.8 | 1582.9 | 7040.7 | 19361.4 | 22397.0 | 23541.3 | 22150.6 |
| 62.5° | 526.1 | 607.2 | 594.4 | 605.6 | 731.1 | 1451.1 | 6309.7 | 17770.5 | 21263.8 | 22978.8 | 23261.7 |
| 65° | 511.8 | 564.3 | 561.0 | 589.7 | 726.3 | 1398.6 | 5230.6 | 15384.8 | 19073.7 | 21200.2 | 23523.8 |
| 67.5° | 492.6 | 521.2 | 537.2 | 569.0 | 742.2 | 1352.5 | 4221.3 | 12690.9 | 16030.1 | 18534.8 | 22157.0 |
| 70° | 472.0 | 495.9 | 513.4 | 543.6 | 732.7 | 1331.9 | 3510.8 | 10008.0 | 12719.5 | 15191.0 | 19459.9 |
| 72.5° | 445.0 | 465.7 | 481.7 | 510.1 | 723.2 | 1320.7 | 2965.8 | 8059.5 | 9496.3 | 11284.3 | 15822.0 |
| 75° | 413.2 | 432.3 | 443.4 | 472.0 | 692.9 | 1209.5 | 2331.6 | 6819.9 | 7105.9 | 7849.7 | 12601.9 |
| 77.5° | 376.7 | 390.9 | 400.6 | 432.3 | 613.5 | 1006.1 | 1686.3 | 5260.8 | 5518.2 | 5699.4 | 9661.6 |
| 80° | 333.8 | 348.1 | 352.8 | 383.1 | 508.6 | 786.7 | 1099.8 | 3886.0 | 4127.5 | 4168.9 | 6309.7 |
| 82.5° | 284.5 | 298.9 | 298.9 | 327.4 | 416.4 | 565.9 | 721.5 | 2662.1 | 2709.8 | 2849.7 | 4459.8 |
| 85° | 228.9 | 240.1 | 240.1 | 254.2 | 322.7 | 422.8 | 495.9 | 1336.7 | 1322.4 | 1509.9 | 3863.7 |
| 87.5° | 163.7 | 171.6 | 179.6 | 182.8 | 230.4 | 279.7 | 298.9 | 406.9 | 268.6 | 308.3 | 2481.0 |
| 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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| 37.5° | 11953.4 | 10256.0 | 10006.5 | 10613.7 | 11649.9 | 13368.0 | 15241.7 | 15383.2 |
| 40° | 12582.9 | 11225.6 | 10929.9 | 11719.8 | 12530.4 | 13971.8 | 16177.9 | 16518.1 |
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| 75° | 8790.7 | 7206.0 | 7250.6 | 7233.1 | 8186.7 | 11999.5 | 10653.4 | 8239.1 |
| 77.5° | 6150.7 | 5221.0 | 5244.9 | 5343.4 | 5503.9 | 9049.7 | 7611.3 | 6018.9 |
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| 82.5° | 3150.1 | 2754.3 | 2722.5 | 2768.6 | 2989.6 | 4925.4 | 4321.4 | 3350.3 |
| 85° | 2579.5 | 1630.7 | 1311.2 | 1643.4 | 2649.4 | 4877.7 | 2870.3 | 1767.4 |
| 87.5° | 1452.7 | 774.0 | 349.6 | 648.5 | 1056.9 | 3229.6 | 829.6 | 225.7 |
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