

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: P194675

Luminaire Tested: **GAN-AF-07-LED-U-SLR-7060-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194675
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-7060-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1050mA 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: 37001 lumens
Efficiency: N/A
Efficacy: 94.6 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

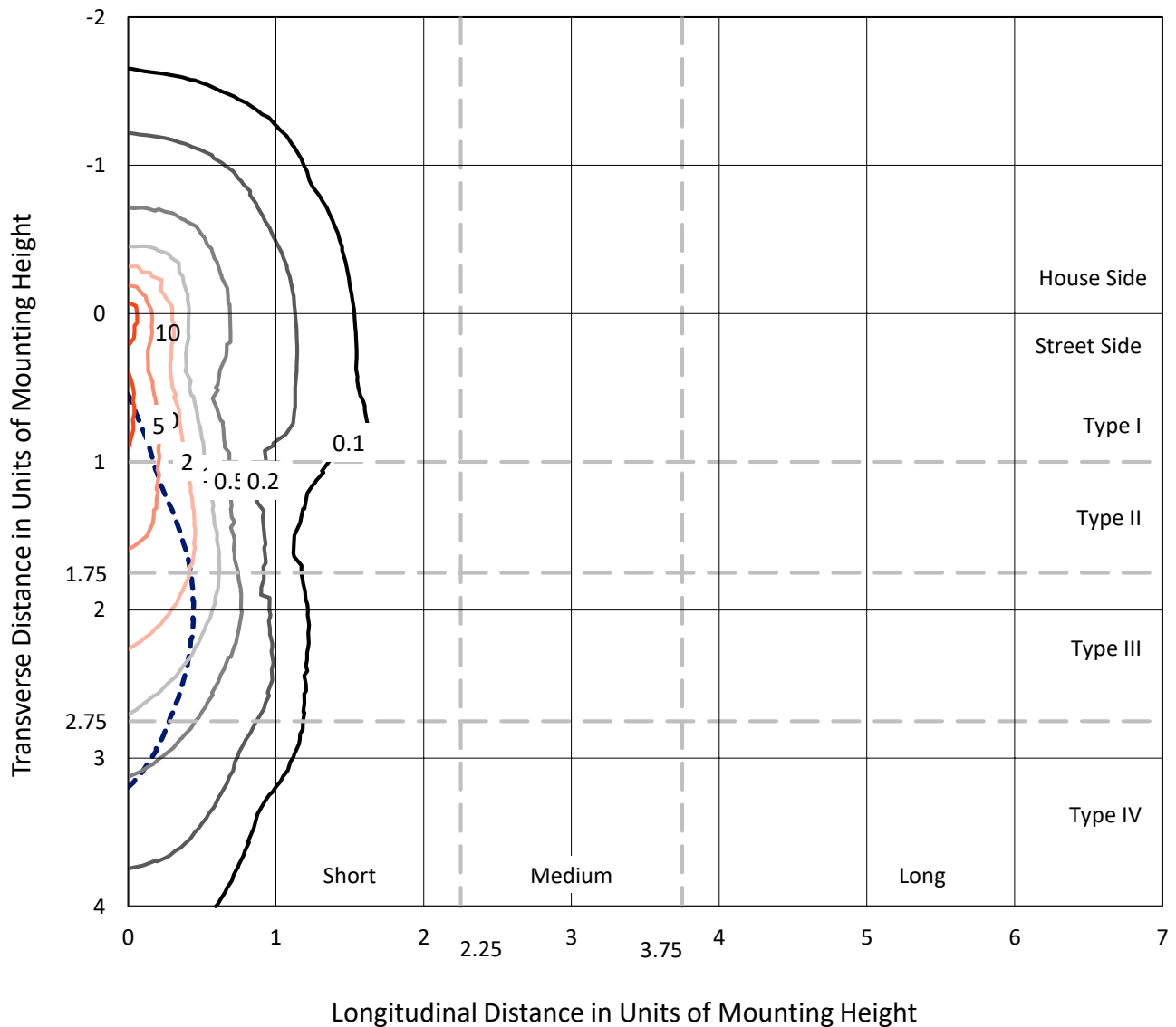
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

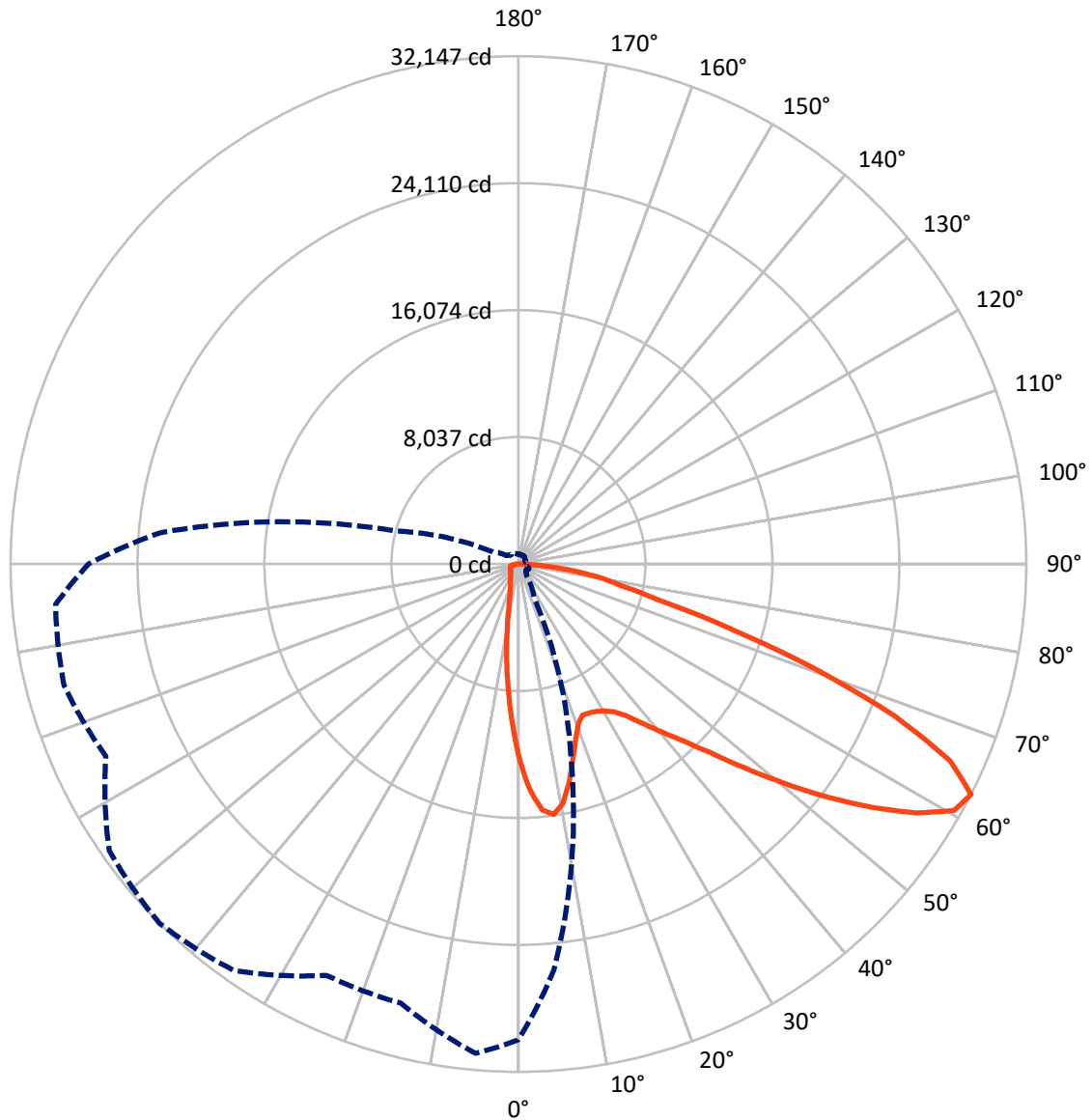
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.9 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 | 6123.1 | 0.0 | 6123.1 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 30877.8 | 0.0 | 30877.8 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 37001.0 | 0.0 | 37001.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 910.0 | 2.5 |
| 10°-20° | 1668.7 | 4.5 |
| 20°-30° | 2433.0 | 6.6 |
| 30°-40° | 3747.1 | 10.1 |
| 40°-50° | 5514.8 | 14.9 |
| 50°-60° | 8089.1 | 21.9 |
| 60°-70° | 9042.4 | 24.4 |
| 70°-80° | 4427.0 | 12.0 |
| 80°-90° | 1168.8 | 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° | 37001.0 | 100.0 |
| 0°-180° | 37001.0 | 100.0 |

Coefficient of Utilization



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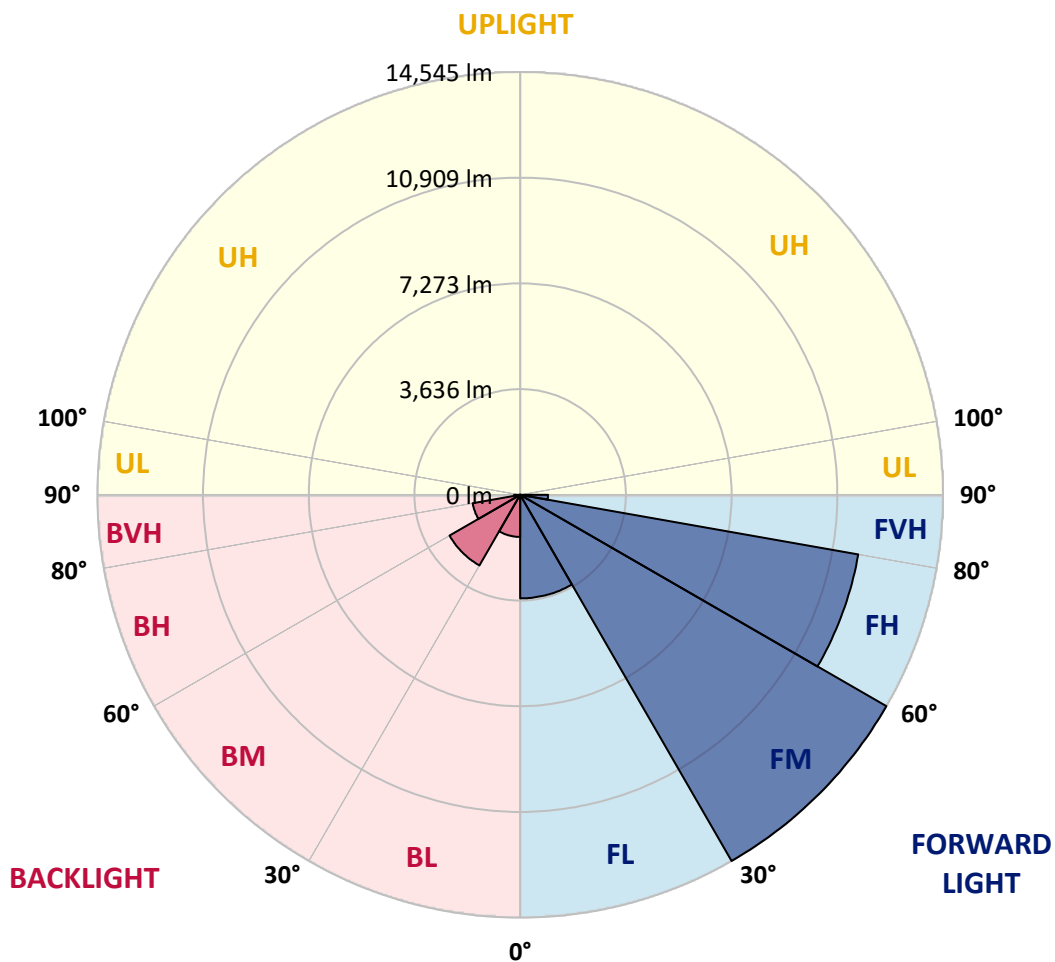
CATALOG NUMBER: GAN-AF-07-LED-U-SLR-7060-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3563.1 | 9.6 | | | |
| FM (30°-60°) | 14545.4 | 39.3 | | | |
| FH (60°-80°) | 11809.4 | 31.9 | | | G4/12000 |
| FVH (80°-90°) | 959.9 | 2.6 | | | G5 |
| BL (0°-30°) | 1448.6 | 3.9 | B3/2500 | | |
| BM (30°-60°) | 2805.6 | 7.6 | B3/5000 | | |
| BH (60°-80°) | 1660.0 | 4.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 208.9 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 |
| 2.5° | 12989.1 | 12724.7 | 12285.3 | 11827.7 | 11549.0 | 11223.6 | 10969.3 | 10745.6 | 10298.1 | 10210.7 | 10290.0 |
| 5° | 12214.1 | 11683.3 | 10855.4 | 10021.5 | 9466.2 | 8870.3 | 8406.5 | 8034.3 | 7466.8 | 7367.1 | 7487.1 |
| 7.5° | 10971.4 | 10336.8 | 9242.5 | 8178.7 | 7393.6 | 6649.1 | 6148.8 | 5750.1 | 5306.7 | 5115.5 | 5127.7 |
| 10° | 9899.5 | 9183.5 | 7889.9 | 6732.5 | 6089.8 | 5587.4 | 5166.3 | 4757.5 | 4308.0 | 4013.1 | 3931.7 |
| 12.5° | 9299.4 | 8475.7 | 6984.7 | 5951.5 | 5355.5 | 4826.7 | 4373.1 | 3935.8 | 3455.8 | 3154.7 | 3069.3 |
| 15° | 9195.7 | 8300.7 | 6645.1 | 5451.1 | 4704.6 | 4035.4 | 3500.5 | 3012.3 | 2518.1 | 2274.0 | 2223.2 |
| 17.5° | 9645.2 | 8614.0 | 6535.2 | 5005.7 | 4092.4 | 3266.6 | 2609.6 | 2064.5 | 1661.8 | 1539.7 | 1529.6 |
| 20° | 10507.6 | 9216.0 | 6521.0 | 4586.7 | 3488.3 | 2520.1 | 1818.4 | 1421.8 | 1244.8 | 1210.2 | 1212.3 |
| 22.5° | 11717.8 | 10149.6 | 6695.9 | 4271.4 | 2933.0 | 1879.4 | 1366.8 | 1189.9 | 1120.7 | 1088.2 | 1088.2 |
| 25° | 13284.0 | 11435.1 | 7098.6 | 4041.5 | 2451.0 | 1501.1 | 1206.2 | 1100.4 | 1035.3 | 1012.9 | 1017.0 |
| 27.5° | 14801.4 | 12686.0 | 7566.5 | 3860.5 | 2135.7 | 1362.8 | 1143.1 | 1047.5 | 990.6 | 968.2 | 978.4 |
| 30° | 15985.2 | 13796.6 | 7957.0 | 3614.4 | 1975.0 | 1324.1 | 1165.5 | 1067.8 | 986.5 | 951.9 | 953.9 |
| 32.5° | 16965.5 | 14768.8 | 8284.5 | 3437.5 | 1832.6 | 1135.0 | 1004.8 | 962.1 | 951.9 | 911.2 | 890.9 |
| 35° | 18218.5 | 15828.5 | 8504.1 | 3441.5 | 1765.5 | 1012.9 | 895.0 | 819.7 | 764.8 | 718.0 | 718.0 |
| 37.5° | 19687.0 | 17044.9 | 8738.0 | 3488.3 | 1741.1 | 941.7 | 856.3 | 781.1 | 730.2 | 685.5 | 677.3 |
| 40° | 21139.3 | 18236.8 | 8951.6 | 3533.0 | 1726.9 | 899.0 | 825.8 | 756.6 | 709.9 | 665.1 | 652.9 |
| 42.5° | 22373.9 | 19217.2 | 9142.8 | 3555.4 | 1678.0 | 895.0 | 803.4 | 740.4 | 695.6 | 646.8 | 634.6 |
| 45° | 23287.2 | 20038.9 | 9348.2 | 3590.0 | 1629.2 | 911.2 | 803.4 | 738.3 | 683.4 | 636.6 | 624.4 |
| 47.5° | 24102.8 | 21003.0 | 9692.0 | 3590.0 | 1570.2 | 880.7 | 829.9 | 740.4 | 681.4 | 632.6 | 622.4 |
| 50° | 25195.1 | 22325.1 | 10342.9 | 3506.6 | 1486.9 | 848.2 | 874.6 | 732.2 | 663.1 | 624.4 | 612.2 |
| 52.5° | 26700.2 | 24019.4 | 11376.1 | 3362.2 | 1358.7 | 785.1 | 868.5 | 728.2 | 644.8 | 604.1 | 589.9 |
| 55° | 28480.0 | 25833.8 | 12503.0 | 3193.4 | 1167.5 | 740.4 | 838.0 | 718.0 | 624.4 | 579.7 | 565.5 |
| 57.5° | 29869.2 | 27082.6 | 13296.2 | 2933.0 | 1000.7 | 716.0 | 742.4 | 707.8 | 600.0 | 553.2 | 541.0 |
| 60° | 30422.5 | 27033.8 | 13513.9 | 2585.2 | 919.4 | 695.6 | 648.8 | 793.3 | 579.7 | 532.9 | 518.7 |
| 62.5° | 30123.5 | 25784.9 | 12903.7 | 2341.1 | 901.1 | 669.2 | 608.2 | 734.3 | 563.4 | 518.7 | 498.3 |
| 65° | 28742.4 | 23572.0 | 11286.6 | 2276.0 | 953.9 | 642.7 | 581.7 | 575.6 | 541.0 | 498.3 | 478.0 |
| 67.5° | 25734.1 | 20264.7 | 9037.0 | 2282.1 | 1021.1 | 616.3 | 555.3 | 526.8 | 510.5 | 476.0 | 457.6 |
| 70° | 20960.3 | 16021.8 | 6736.6 | 2298.4 | 1055.6 | 585.8 | 526.8 | 496.3 | 478.0 | 443.4 | 431.2 |
| 72.5° | 15411.6 | 12348.4 | 4893.8 | 2192.6 | 1061.7 | 551.2 | 488.2 | 461.7 | 443.4 | 406.8 | 396.6 |
| 75° | 10544.2 | 9445.9 | 3394.7 | 1816.4 | 925.5 | 502.4 | 445.4 | 421.0 | 408.8 | 364.1 | 358.0 |
| 77.5° | 7702.7 | 7090.5 | 2172.3 | 1348.5 | 713.9 | 441.4 | 392.6 | 374.3 | 366.1 | 317.3 | 309.2 |
| 80° | 6181.3 | 5609.8 | 1358.7 | 923.4 | 522.7 | 370.2 | 329.5 | 319.3 | 311.2 | 262.4 | 256.3 |
| 82.5° | 4287.7 | 3756.8 | 872.6 | 600.0 | 392.6 | 286.8 | 260.4 | 256.3 | 244.1 | 199.3 | 193.2 |
| 85° | 2261.8 | 2040.1 | 553.2 | 408.8 | 284.8 | 197.3 | 181.0 | 181.0 | 174.9 | 132.2 | 128.1 |
| 87.5° | 288.8 | 469.9 | 280.7 | 213.6 | 156.6 | 87.5 | 87.5 | 85.4 | 91.5 | 75.3 | 65.1 |
| 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-7060-ADJ

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 |
| 2.5° | 10102.9 | 10200.5 | 10106.9 | 10113.0 | 10216.8 | 10525.9 | 10666.3 | 10782.2 | 10906.3 | 10987.6 | 11024.3 |
| 5° | 7322.4 | 7550.2 | 7627.5 | 7790.2 | 8030.2 | 8424.8 | 8581.4 | 8695.3 | 8770.6 | 8815.3 | 8833.6 |
| 7.5° | 5007.7 | 5146.0 | 5300.6 | 5563.0 | 6085.7 | 6317.6 | 6421.3 | 6394.9 | 6309.5 | 6278.9 | 6248.4 |
| 10° | 3775.1 | 3720.2 | 3691.7 | 3836.1 | 4259.2 | 4493.1 | 4566.3 | 4495.1 | 4448.3 | 4458.5 | 4509.4 |
| 12.5° | 2924.9 | 2829.3 | 2713.3 | 2697.1 | 2975.7 | 3185.2 | 3232.0 | 3236.1 | 3321.5 | 3396.8 | 3508.6 |
| 15° | 2131.6 | 2121.5 | 2064.5 | 2029.9 | 2188.6 | 2359.4 | 2379.8 | 2416.4 | 2493.7 | 2548.6 | 2646.2 |
| 17.5° | 1503.1 | 1558.0 | 1602.8 | 1625.2 | 1745.2 | 1867.2 | 1844.8 | 1826.5 | 1812.3 | 1812.3 | 1859.1 |
| 20° | 1212.3 | 1248.9 | 1305.8 | 1370.9 | 1493.0 | 1578.4 | 1523.5 | 1450.2 | 1397.4 | 1381.1 | 1387.2 |
| 22.5° | 1092.3 | 1120.7 | 1153.3 | 1210.2 | 1320.1 | 1379.0 | 1320.1 | 1267.2 | 1214.3 | 1196.0 | 1189.9 |
| 25° | 1031.2 | 1067.8 | 1098.4 | 1141.1 | 1222.4 | 1263.1 | 1206.2 | 1167.5 | 1135.0 | 1112.6 | 1096.3 |
| 27.5° | 996.7 | 1029.2 | 1037.3 | 1057.7 | 1126.8 | 1163.4 | 1135.0 | 1118.7 | 1098.4 | 1078.0 | 1057.7 |
| 30° | 960.0 | 953.9 | 939.7 | 941.7 | 996.7 | 1033.3 | 1031.2 | 1035.3 | 1033.3 | 1027.2 | 1023.1 |
| 32.5° | 876.7 | 864.4 | 852.2 | 864.4 | 915.3 | 947.8 | 949.9 | 958.0 | 958.0 | 956.0 | 972.2 |
| 35° | 730.2 | 752.6 | 766.8 | 803.4 | 864.4 | 892.9 | 880.7 | 860.4 | 823.8 | 801.4 | 799.4 |
| 37.5° | 675.3 | 679.4 | 703.8 | 754.6 | 821.7 | 848.2 | 829.9 | 783.1 | 758.7 | 754.6 | 760.7 |
| 40° | 648.8 | 652.9 | 667.2 | 713.9 | 781.1 | 807.5 | 791.2 | 756.6 | 734.3 | 732.2 | 742.4 |
| 42.5° | 630.5 | 634.6 | 642.7 | 675.3 | 730.2 | 762.7 | 764.8 | 740.4 | 713.9 | 716.0 | 726.1 |
| 45° | 620.4 | 622.4 | 620.4 | 636.6 | 687.5 | 726.1 | 742.4 | 726.1 | 703.8 | 707.8 | 720.0 |
| 47.5° | 618.3 | 612.2 | 604.1 | 608.2 | 661.0 | 699.7 | 720.0 | 713.9 | 703.8 | 707.8 | 718.0 |
| 50° | 610.2 | 596.0 | 585.8 | 583.8 | 636.6 | 677.3 | 695.6 | 695.6 | 699.7 | 707.8 | 718.0 |
| 52.5° | 585.8 | 569.5 | 569.5 | 563.4 | 620.4 | 659.0 | 671.2 | 673.3 | 679.4 | 693.6 | 707.8 |
| 55° | 555.3 | 549.2 | 555.3 | 545.1 | 608.2 | 644.8 | 650.9 | 654.9 | 659.0 | 671.2 | 691.6 |
| 57.5° | 528.8 | 520.7 | 534.9 | 530.9 | 598.0 | 630.5 | 630.5 | 638.7 | 638.7 | 654.9 | 671.2 |
| 60° | 514.6 | 498.3 | 504.4 | 508.5 | 583.8 | 618.3 | 614.3 | 622.4 | 626.5 | 640.7 | 652.9 |
| 62.5° | 496.3 | 482.1 | 482.1 | 492.2 | 567.5 | 600.0 | 598.0 | 604.1 | 620.4 | 624.4 | 636.6 |
| 65° | 473.9 | 467.8 | 461.7 | 473.9 | 551.2 | 579.7 | 581.7 | 589.9 | 604.1 | 608.2 | 618.3 |
| 67.5° | 451.5 | 453.6 | 441.4 | 453.6 | 537.0 | 559.3 | 559.3 | 575.6 | 581.7 | 589.9 | 600.0 |
| 70° | 427.1 | 429.2 | 419.0 | 433.2 | 526.8 | 537.0 | 534.9 | 557.3 | 561.4 | 567.5 | 577.7 |
| 72.5° | 396.6 | 396.6 | 392.6 | 412.9 | 510.5 | 514.6 | 510.5 | 528.8 | 530.9 | 537.0 | 541.0 |
| 75° | 364.1 | 364.1 | 360.0 | 388.5 | 500.4 | 490.2 | 478.0 | 492.2 | 496.3 | 500.4 | 500.4 |
| 77.5° | 321.4 | 325.4 | 325.4 | 360.0 | 465.8 | 480.0 | 439.3 | 447.5 | 453.6 | 455.6 | 449.5 |
| 80° | 268.5 | 278.7 | 282.7 | 327.5 | 390.5 | 443.4 | 392.6 | 398.7 | 400.7 | 400.7 | 392.6 |
| 82.5° | 205.4 | 223.7 | 233.9 | 282.7 | 299.0 | 372.2 | 341.7 | 347.8 | 341.7 | 329.5 | 325.4 |
| 85° | 142.4 | 166.8 | 179.0 | 215.6 | 225.8 | 286.8 | 284.8 | 284.8 | 272.6 | 256.3 | 254.2 |
| 87.5° | 77.3 | 91.5 | 99.7 | 128.1 | 154.6 | 193.2 | 209.5 | 203.4 | 193.2 | 183.1 | 185.1 |
| 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):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 |
| 2.5° | 11215.4 | 11492.1 | 11933.4 | 12271.1 | 12610.8 | 12938.2 | 13292.2 | 13562.7 | 13792.5 | 13882.0 | 14154.6 |
| 5° | 9018.7 | 9364.5 | 9781.5 | 10534.1 | 11067.0 | 11654.8 | 12334.1 | 13233.2 | 13578.9 | 14056.9 | 14840.0 |
| 7.5° | 6376.6 | 6689.8 | 7361.0 | 7969.2 | 8723.8 | 9555.7 | 10473.0 | 11713.8 | 12167.4 | 12934.2 | 14209.5 |
| 10° | 4761.6 | 5125.7 | 5664.7 | 6177.2 | 6842.4 | 7692.6 | 8746.2 | 10133.4 | 10684.6 | 11516.5 | 12985.0 |
| 12.5° | 3836.1 | 4265.3 | 4836.8 | 5318.9 | 5833.5 | 6433.5 | 7456.6 | 8978.1 | 9716.4 | 10444.6 | 11929.4 |
| 15° | 2947.3 | 3396.8 | 3927.6 | 4539.9 | 5107.4 | 5754.2 | 6826.1 | 8489.9 | 9340.1 | 10098.8 | 11366.0 |
| 17.5° | 2040.1 | 2424.5 | 3093.7 | 3732.4 | 4458.5 | 5286.4 | 6651.2 | 8593.6 | 9608.6 | 10483.2 | 11463.6 |
| 20° | 1446.2 | 1665.8 | 2215.0 | 2955.4 | 3860.5 | 4899.9 | 6618.6 | 9138.7 | 10458.8 | 11457.5 | 12090.1 |
| 22.5° | 1216.3 | 1297.7 | 1617.0 | 2296.4 | 3341.9 | 4611.1 | 6732.5 | 9903.5 | 11606.0 | 12881.3 | 13088.8 |
| 25° | 1108.5 | 1157.3 | 1324.1 | 1802.1 | 2880.1 | 4401.6 | 7116.9 | 11042.6 | 13025.7 | 14305.1 | 14268.5 |
| 27.5° | 1049.5 | 1100.4 | 1210.2 | 1521.4 | 2532.3 | 4271.4 | 7501.4 | 12393.1 | 14648.8 | 15850.9 | 15395.3 |
| 30° | 1031.2 | 1100.4 | 1216.3 | 1434.0 | 2284.2 | 4066.0 | 7816.6 | 13578.9 | 15897.7 | 16894.4 | 15907.9 |
| 32.5° | 1017.0 | 1027.2 | 1080.1 | 1236.7 | 2048.2 | 3825.9 | 8030.2 | 14642.7 | 17120.1 | 17886.9 | 16646.2 |
| 35° | 821.7 | 872.6 | 958.0 | 1108.5 | 1909.9 | 3681.5 | 8030.2 | 15560.1 | 18324.3 | 18889.7 | 17350.0 |
| 37.5° | 791.2 | 836.0 | 911.2 | 1039.4 | 1832.6 | 3610.3 | 7869.5 | 16444.8 | 19554.8 | 20026.7 | 17929.7 |
| 40° | 775.0 | 811.6 | 882.8 | 986.5 | 1800.1 | 3529.0 | 7635.6 | 17225.9 | 20756.9 | 21165.7 | 18470.7 |
| 42.5° | 762.7 | 795.3 | 862.4 | 953.9 | 1757.4 | 3439.5 | 7446.5 | 17852.4 | 21800.4 | 22138.0 | 18987.3 |
| 45° | 756.6 | 791.2 | 864.4 | 970.2 | 1671.9 | 3321.5 | 7383.4 | 18529.7 | 22658.7 | 22949.6 | 19546.7 |
| 47.5° | 756.6 | 797.3 | 874.6 | 1004.8 | 1570.2 | 3199.5 | 7580.7 | 19422.6 | 23470.3 | 23612.6 | 20205.7 |
| 50° | 750.5 | 795.3 | 903.1 | 970.2 | 1421.8 | 3044.9 | 8044.4 | 20547.4 | 24348.9 | 24365.2 | 21039.6 |
| 52.5° | 738.3 | 791.2 | 972.2 | 949.9 | 1250.9 | 2841.5 | 8670.9 | 21991.5 | 25648.7 | 25746.3 | 22345.5 |
| 55° | 724.1 | 785.1 | 953.9 | 903.1 | 1110.6 | 2599.4 | 9183.5 | 23746.9 | 27475.2 | 27745.7 | 24265.6 |
| 57.5° | 705.8 | 777.0 | 923.4 | 838.0 | 1019.0 | 2288.2 | 9368.6 | 25032.4 | 28750.5 | 29429.9 | 26429.7 |
| 60° | 689.5 | 770.9 | 833.9 | 799.4 | 962.1 | 2025.9 | 9010.6 | 24778.1 | 28663.1 | 30127.5 | 28347.8 |
| 62.5° | 673.3 | 777.0 | 760.7 | 775.0 | 935.6 | 1857.0 | 8075.0 | 22742.1 | 27212.8 | 29407.5 | 29769.5 |
| 65° | 654.9 | 722.1 | 718.0 | 754.6 | 929.5 | 1789.9 | 6693.9 | 19689.1 | 24410.0 | 27131.5 | 30105.2 |
| 67.5° | 630.5 | 667.2 | 687.5 | 728.2 | 949.9 | 1730.9 | 5402.3 | 16241.4 | 20514.9 | 23720.4 | 28355.9 |
| 70° | 604.1 | 634.6 | 657.0 | 695.6 | 937.7 | 1704.5 | 4493.1 | 12808.1 | 16278.1 | 19440.9 | 24904.2 |
| 72.5° | 569.5 | 596.0 | 616.3 | 652.9 | 925.5 | 1690.2 | 3795.4 | 10314.4 | 12153.1 | 14441.4 | 20248.4 |
| 75° | 528.8 | 553.2 | 567.5 | 604.1 | 886.8 | 1547.9 | 2983.9 | 8727.9 | 9094.0 | 10045.9 | 16127.5 |
| 77.5° | 482.1 | 500.4 | 512.6 | 553.2 | 785.1 | 1287.5 | 2158.1 | 6732.5 | 7062.0 | 7293.9 | 12364.7 |
| 80° | 427.1 | 445.4 | 451.5 | 490.2 | 650.9 | 1006.8 | 1407.5 | 4973.1 | 5282.3 | 5335.2 | 8075.0 |
| 82.5° | 364.1 | 382.4 | 382.4 | 419.0 | 532.9 | 724.1 | 923.4 | 3406.9 | 3468.0 | 3647.0 | 5707.4 |
| 85° | 292.9 | 307.1 | 307.1 | 325.4 | 412.9 | 541.0 | 634.6 | 1710.6 | 1692.3 | 1932.3 | 4944.6 |
| 87.5° | 209.5 | 219.7 | 229.8 | 233.9 | 294.9 | 358.0 | 382.4 | 520.7 | 343.7 | 394.6 | 3175.1 |
| 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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| 0° | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 | 12500.9 |
| 2.5° | 14360.0 | 14475.9 | 14358.0 | 14272.5 | 13904.4 | 13601.3 | 13196.6 | 12989.1 |
| 5° | 15436.0 | 15730.9 | 15631.2 | 15273.3 | 14504.4 | 13640.0 | 12657.5 | 12214.1 |
| 7.5° | 15305.8 | 15991.3 | 16007.5 | 15338.4 | 14205.4 | 12932.1 | 11601.9 | 10971.4 |
| 10° | 14292.9 | 15169.5 | 15419.7 | 14770.9 | 13568.8 | 12145.0 | 10619.5 | 9899.5 |
| 12.5° | 13162.0 | 14020.3 | 14211.5 | 13987.8 | 12983.0 | 11553.1 | 10005.2 | 9299.4 |
| 15° | 12236.5 | 12620.9 | 12848.7 | 13044.0 | 12480.6 | 11317.1 | 9970.6 | 9195.7 |
| 17.5° | 11673.1 | 11630.4 | 11695.5 | 12035.1 | 12130.7 | 11587.7 | 10499.5 | 9645.2 |
| 20° | 11469.7 | 10816.8 | 10800.5 | 11268.3 | 11966.0 | 12232.4 | 11532.7 | 10507.6 |
| 22.5° | 11581.6 | 10523.9 | 10389.6 | 10944.9 | 12053.5 | 13162.0 | 12887.4 | 11717.8 |
| 25° | 11968.0 | 10548.3 | 10440.5 | 10977.5 | 12370.8 | 14152.5 | 14349.8 | 13284.0 |
| 27.5° | 12576.2 | 10702.9 | 10560.5 | 11111.7 | 12791.8 | 14984.4 | 15789.9 | 14801.4 |
| 30° | 13153.8 | 10971.4 | 10794.4 | 11376.1 | 13176.2 | 15313.9 | 16672.7 | 15985.2 |
| 32.5° | 13855.6 | 11473.8 | 11162.6 | 11862.3 | 13652.2 | 15838.7 | 17459.8 | 16965.5 |
| 35° | 14543.1 | 12189.7 | 11803.3 | 12612.8 | 14183.0 | 16491.6 | 18358.8 | 18218.5 |
| 37.5° | 15297.7 | 13125.4 | 12806.0 | 13583.0 | 14909.2 | 17107.9 | 19506.0 | 19687.0 |
| 40° | 16103.1 | 14366.1 | 13987.8 | 14998.7 | 16036.0 | 17880.8 | 20704.0 | 21139.3 |
| 42.5° | 16914.7 | 15743.1 | 15291.6 | 16316.7 | 17274.7 | 18643.6 | 21729.2 | 22373.9 |
| 45° | 17844.2 | 17238.1 | 17024.5 | 18133.1 | 18464.6 | 19369.7 | 22485.8 | 23287.2 |
| 47.5° | 18926.3 | 18934.5 | 19278.2 | 19721.6 | 19664.7 | 20191.5 | 23246.5 | 24102.8 |
| 50° | 20189.4 | 21051.8 | 21810.5 | 22105.5 | 20901.3 | 21074.2 | 24302.2 | 25195.1 |
| 52.5° | 21706.8 | 23584.2 | 24523.9 | 24330.6 | 22233.6 | 22152.2 | 25974.1 | 26700.2 |
| 55° | 23604.5 | 26265.0 | 27198.6 | 27060.3 | 23765.2 | 23620.8 | 28056.9 | 28480.0 |
| 57.5° | 25801.2 | 28862.4 | 29720.7 | 29098.3 | 25603.9 | 25231.7 | 29779.7 | 29869.2 |
| 60° | 27731.5 | 30920.8 | 31673.4 | 30983.8 | 27458.9 | 26946.4 | 30855.7 | 30422.5 |
| 62.5° | 28805.4 | 31618.4 | 32147.3 | 31404.9 | 28730.2 | 28772.9 | 31091.6 | 30123.5 |
| 65° | 28325.4 | 29855.0 | 30025.8 | 29964.8 | 28402.7 | 29832.6 | 30243.5 | 28742.4 |
| 67.5° | 25697.5 | 25396.5 | 25683.3 | 26079.9 | 25595.8 | 28437.3 | 27894.2 | 25734.1 |
| 70° | 21068.1 | 19414.5 | 19986.0 | 20252.5 | 20472.2 | 24471.0 | 24210.6 | 20960.3 |
| 72.5° | 15877.4 | 13601.3 | 14052.9 | 13998.0 | 15014.9 | 19628.0 | 18828.7 | 15411.6 |
| 75° | 11250.0 | 9222.1 | 9279.1 | 9256.7 | 10477.1 | 15356.7 | 13633.9 | 10544.2 |
| 77.5° | 7871.6 | 6681.7 | 6712.2 | 6838.3 | 7043.7 | 11581.6 | 9740.8 | 7702.7 |
| 80° | 5412.5 | 5070.7 | 5239.6 | 5249.7 | 4881.6 | 7780.0 | 7196.3 | 6181.3 |
| 82.5° | 4031.4 | 3524.9 | 3484.2 | 3543.2 | 3825.9 | 6303.3 | 5530.4 | 4287.7 |
| 85° | 3301.2 | 2086.9 | 1678.0 | 2103.2 | 3390.7 | 6242.3 | 3673.4 | 2261.8 |
| 87.5° | 1859.1 | 990.6 | 447.5 | 829.9 | 1352.6 | 4133.1 | 1061.7 | 288.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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