

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: P194611

Luminaire Tested: **GAN-AF-03-LED-U-SLL-7060-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194611
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-03-LED-U-SLL-7060-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10522 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 96
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

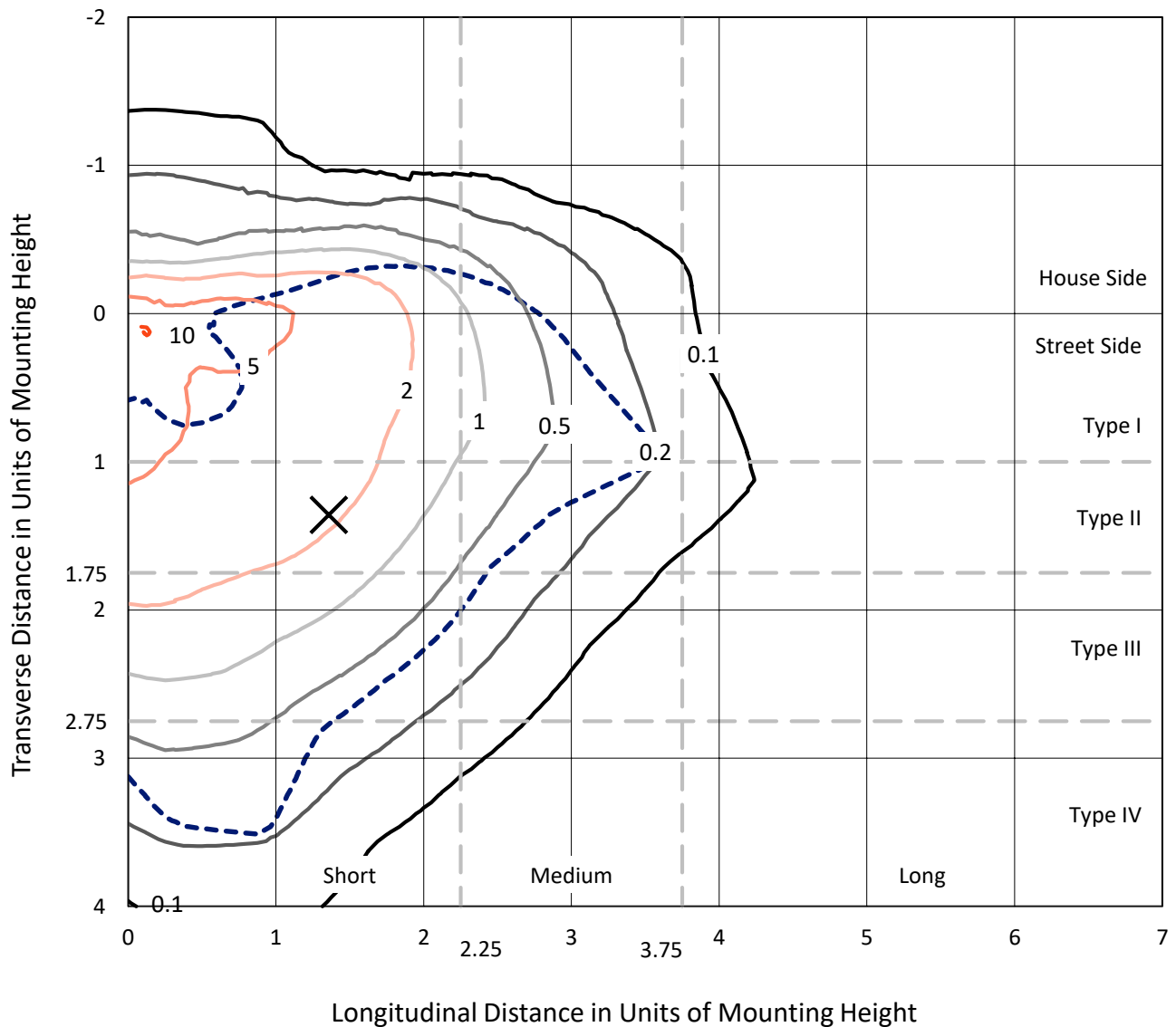


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

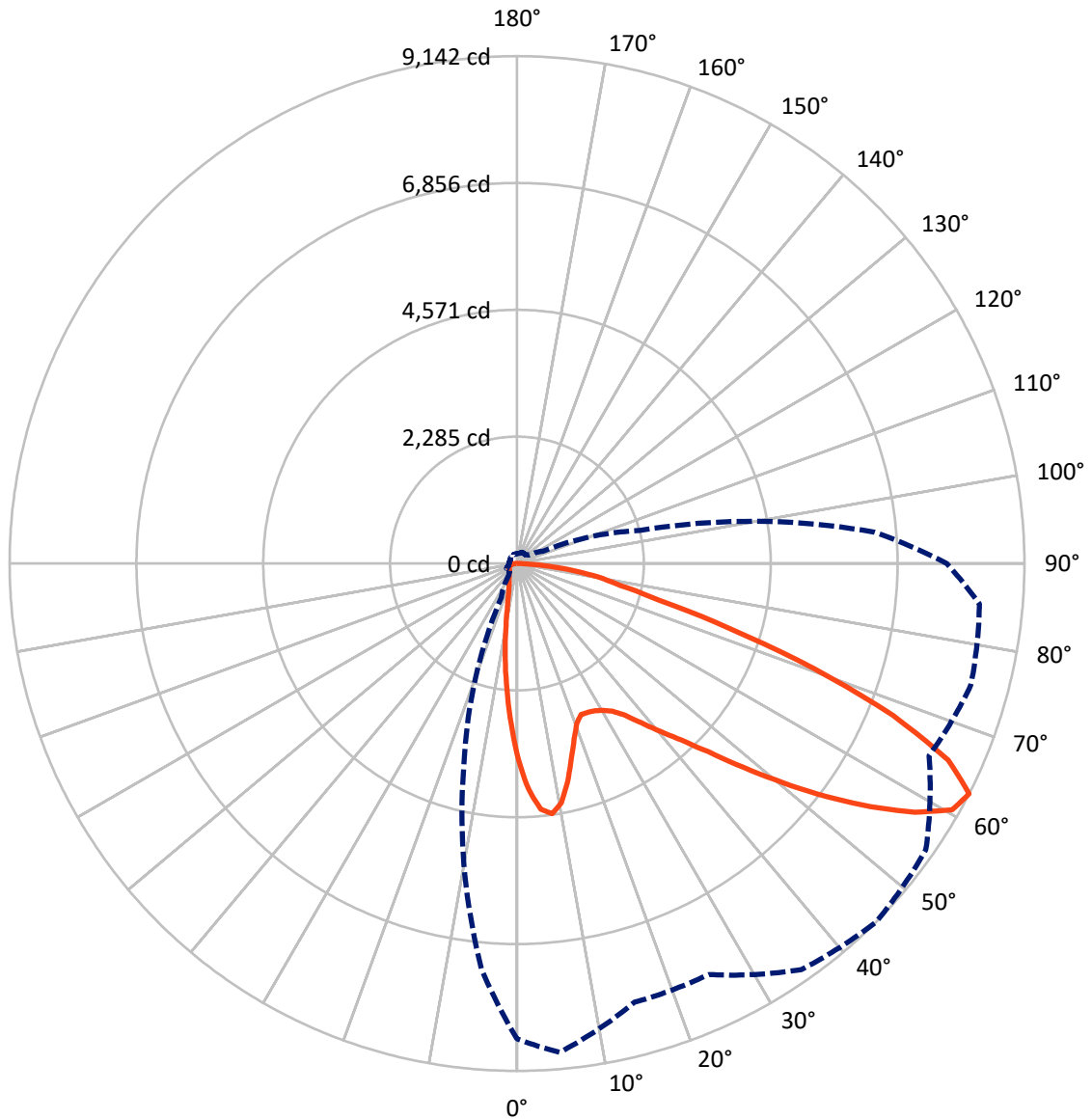


Based on 20 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1741.2 | 0.0 | 1741.2 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 8780.8 | 0.0 | 8780.8 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 10522.0 | 0.0 | 10522.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 258.8 | 2.5 |
| 10°-20° | 474.5 | 4.5 |
| 20°-30° | 691.9 | 6.6 |
| 30°-40° | 1065.6 | 10.1 |
| 40°-50° | 1568.3 | 14.9 |
| 50°-60° | 2300.3 | 21.9 |
| 60°-70° | 2571.4 | 24.4 |
| 70°-80° | 1258.9 | 12.0 |
| 80°-90° | 332.4 | 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° | 10522.0 | 100.0 |
| 0°-180° | 10522.0 | 100.0 |

Coefficient of Utilization



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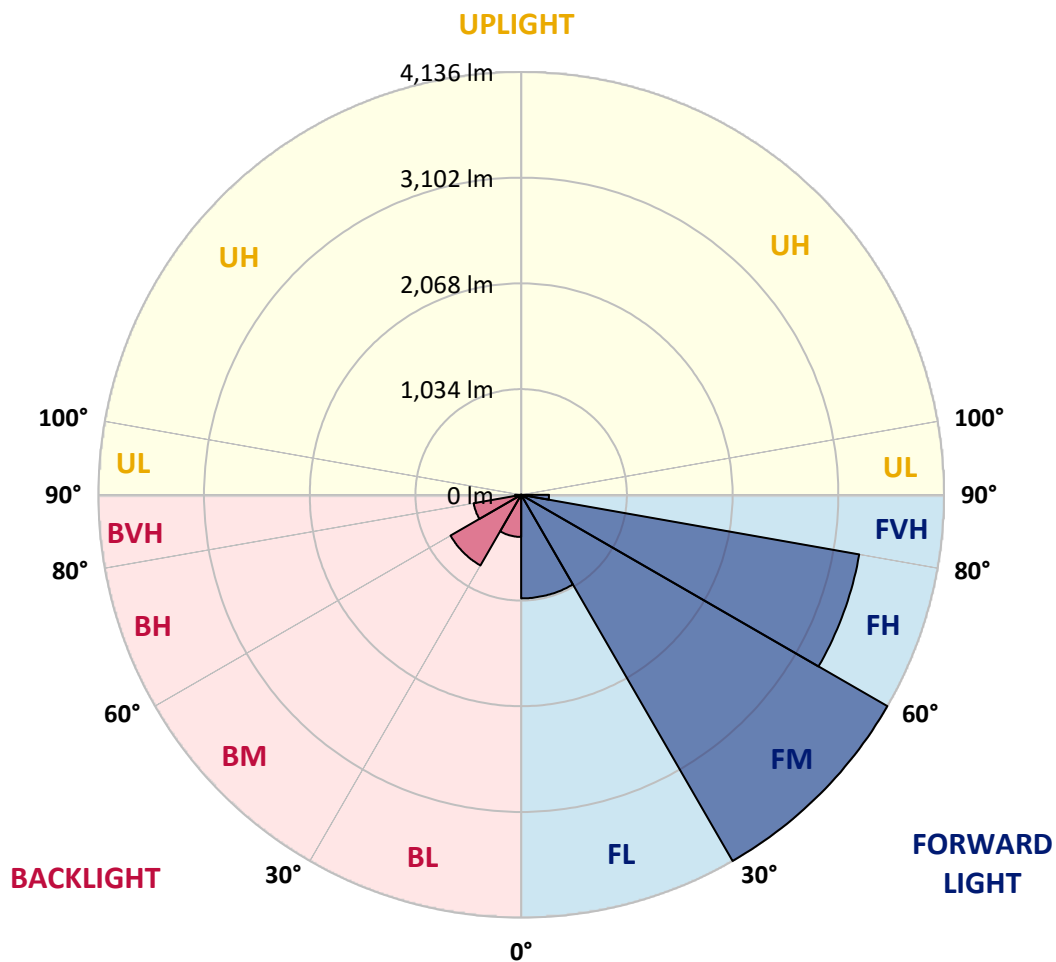
CATALOG NUMBER: GAN-AF-03-LED-U-SLL-7060-600-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1013.2 | 9.6 | | | |
| FM | (30°-60°) | 4136.3 | 39.3 | | | |
| FH | (60°-80°) | 3358.3 | 31.9 | | | G2/5000 |
| FVH | (80°-90°) | 273.0 | 2.6 | | | G3/500 |
| BL | (0°-30°) | 412.0 | 3.9 | B1/500 | | |
| BM | (30°-60°) | 797.8 | 7.6 | B1/1000 | | |
| BH | (60°-80°) | 472.1 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 59.4 | 0.6 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type IV Short





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CATALOG NUMBER: GAN-AF-03-LED-U-SLL-7060-600-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3554.9 | 3554.9 | 3554.9 | 3554.9 | 3554.9 | 3554.9 | 3554.9 | 3554.9 | 3554.9 | 3554.9 | 3554.9 |
| 2.5° | 3693.7 | 3752.7 | 3867.8 | 3954.0 | 4058.7 | 4083.0 | 4116.5 | 4083.6 | 4025.1 | 3947.6 | 3922.2 |
| 5° | 3473.3 | 3599.4 | 3878.8 | 4124.6 | 4343.3 | 4445.1 | 4473.4 | 4389.5 | 4220.1 | 3997.4 | 3861.5 |
| 7.5° | 3119.9 | 3299.2 | 3677.5 | 4039.6 | 4361.8 | 4552.1 | 4547.4 | 4352.5 | 4040.8 | 3678.1 | 3460.0 |
| 10° | 2815.1 | 3019.9 | 3453.7 | 3858.6 | 4200.4 | 4384.9 | 4313.8 | 4064.5 | 3692.6 | 3274.9 | 3038.4 |
| 12.5° | 2644.5 | 2845.2 | 3285.4 | 3692.0 | 3977.7 | 4041.3 | 3987.0 | 3742.9 | 3392.4 | 2970.1 | 2763.1 |
| 15° | 2615.0 | 2835.4 | 3218.3 | 3549.1 | 3709.3 | 3653.8 | 3589.0 | 3479.7 | 3232.1 | 2871.8 | 2656.1 |
| 17.5° | 2742.8 | 2985.7 | 3295.2 | 3449.6 | 3422.4 | 3325.8 | 3307.3 | 3319.5 | 3259.9 | 2981.1 | 2732.4 |
| 20° | 2988.1 | 3279.6 | 3478.5 | 3402.8 | 3204.4 | 3071.3 | 3076.0 | 3261.6 | 3438.1 | 3258.2 | 2974.2 |
| 22.5° | 3332.2 | 3664.8 | 3742.9 | 3427.6 | 3112.4 | 2954.5 | 2992.7 | 3293.5 | 3722.1 | 3663.1 | 3300.4 |
| 25° | 3777.6 | 4080.7 | 4024.6 | 3517.9 | 3121.7 | 2969.0 | 2999.6 | 3403.4 | 4057.5 | 4067.9 | 3704.1 |
| 27.5° | 4209.1 | 4490.2 | 4261.1 | 3637.6 | 3159.8 | 3003.1 | 3043.6 | 3576.3 | 4378.0 | 4507.5 | 4165.7 |
| 30° | 4545.7 | 4741.2 | 4354.8 | 3746.9 | 3235.0 | 3069.6 | 3119.9 | 3740.6 | 4523.7 | 4804.3 | 4520.8 |
| 32.5° | 4824.5 | 4965.1 | 4504.1 | 3882.3 | 3373.3 | 3174.3 | 3262.8 | 3940.1 | 4733.7 | 5086.5 | 4868.5 |
| 35° | 5180.8 | 5220.7 | 4689.7 | 4033.2 | 3586.7 | 3356.5 | 3466.4 | 4135.6 | 4933.8 | 5371.7 | 5210.9 |
| 37.5° | 5598.4 | 5546.9 | 4865.0 | 4239.7 | 3862.6 | 3641.7 | 3732.5 | 4350.2 | 5098.7 | 5695.0 | 5560.8 |
| 40° | 6011.4 | 5887.6 | 5084.8 | 4560.2 | 4265.2 | 3977.7 | 4085.3 | 4579.3 | 5252.5 | 6018.9 | 5902.7 |
| 42.5° | 6362.5 | 6179.1 | 5301.7 | 4912.4 | 4640.0 | 4348.5 | 4476.9 | 4810.0 | 5399.4 | 6295.4 | 6199.4 |
| 45° | 6622.2 | 6394.3 | 5508.2 | 5250.8 | 5156.5 | 4841.3 | 4902.0 | 5074.4 | 5558.5 | 6526.2 | 6443.5 |
| 47.5° | 6854.1 | 6610.6 | 5741.9 | 5592.1 | 5608.2 | 5482.2 | 5384.4 | 5382.1 | 5745.9 | 6714.7 | 6674.3 |
| 50° | 7164.7 | 6910.8 | 5992.9 | 5943.7 | 6286.1 | 6202.3 | 5986.5 | 5741.3 | 5983.1 | 6928.8 | 6924.1 |
| 52.5° | 7592.8 | 7386.3 | 6299.4 | 6322.6 | 6918.9 | 6973.9 | 6706.6 | 6172.8 | 6354.4 | 7321.5 | 7293.7 |
| 55° | 8098.9 | 7978.6 | 6717.1 | 6758.1 | 7695.1 | 7734.5 | 7469.0 | 6712.4 | 6900.4 | 7890.1 | 7813.1 |
| 57.5° | 8493.9 | 8468.5 | 7175.2 | 7281.0 | 8274.7 | 8451.7 | 8207.6 | 7337.1 | 7515.8 | 8369.0 | 8175.8 |
| 60° | 8651.3 | 8774.5 | 7662.8 | 7808.5 | 8810.9 | 9007.0 | 8793.0 | 7886.0 | 8061.3 | 8567.4 | 8150.9 |
| 62.5° | 8566.2 | 8841.6 | 8182.2 | 8170.0 | 8930.6 | 9141.7 | 8991.4 | 8191.4 | 8465.6 | 8362.6 | 7738.5 |
| 65° | 8173.5 | 8600.4 | 8483.5 | 8076.9 | 8521.1 | 8538.5 | 8489.9 | 8054.9 | 8561.0 | 7715.4 | 6941.5 |
| 67.5° | 7318.0 | 7932.3 | 8086.7 | 7278.7 | 7416.4 | 7303.6 | 7222.0 | 7307.6 | 8063.6 | 6745.4 | 5833.8 |
| 70° | 5960.5 | 6884.8 | 6958.8 | 5821.7 | 5759.2 | 5683.4 | 5520.9 | 5991.2 | 7082.0 | 5528.4 | 4629.0 |
| 72.5° | 4382.6 | 5354.3 | 5581.6 | 4269.8 | 3980.6 | 3996.2 | 3867.8 | 4515.1 | 5758.1 | 4106.7 | 3456.0 |
| 75° | 2998.5 | 3877.1 | 4367.0 | 2979.4 | 2632.3 | 2638.7 | 2622.5 | 3199.2 | 4586.2 | 2856.8 | 2586.1 |
| 77.5° | 2190.4 | 2770.0 | 3293.5 | 2003.0 | 1944.6 | 1908.7 | 1900.1 | 2238.4 | 3516.1 | 2074.2 | 2008.2 |
| 80° | 1757.8 | 2046.4 | 2212.4 | 1388.2 | 1492.9 | 1490.0 | 1442.0 | 1539.1 | 2296.3 | 1517.2 | 1502.1 |
| 82.5° | 1219.3 | 1572.7 | 1792.5 | 1088.0 | 1007.6 | 990.8 | 1002.4 | 1146.4 | 1623.0 | 1037.1 | 986.2 |
| 85° | 643.2 | 1044.6 | 1775.1 | 964.2 | 598.1 | 477.2 | 593.4 | 938.8 | 1406.1 | 549.5 | 481.2 |
| 87.5° | 82.1 | 301.9 | 1175.3 | 384.6 | 236.0 | 127.2 | 281.7 | 528.7 | 902.9 | 112.2 | 97.8 |
| 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-03-LED-U-SLL-7060-600-ADJ

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3554.9 | 3554.9 | 3554.9 | 3554.9 | 3554.9 | 3554.9 | 3554.9 | 3554.9 | 3554.9 | 3554.9 | 3554.9 |
| 2.5° | 3856.8 | 3779.9 | 3679.3 | 3586.1 | 3489.5 | 3393.5 | 3268.0 | 3189.3 | 3135.0 | 3124.6 | 3101.4 |
| 5° | 3763.1 | 3507.5 | 3314.3 | 3147.1 | 2995.6 | 2781.6 | 2663.0 | 2564.7 | 2512.0 | 2506.8 | 2494.1 |
| 7.5° | 3331.1 | 2978.2 | 2717.4 | 2480.8 | 2266.2 | 2093.3 | 1902.4 | 1813.3 | 1776.9 | 1785.5 | 1794.2 |
| 10° | 2881.6 | 2487.2 | 2187.5 | 1945.8 | 1756.6 | 1610.9 | 1457.6 | 1354.1 | 1282.3 | 1267.9 | 1265.0 |
| 12.5° | 2553.1 | 2120.4 | 1829.5 | 1658.9 | 1512.5 | 1375.5 | 1212.9 | 1090.9 | 997.8 | 965.9 | 944.5 |
| 15° | 2414.3 | 1941.1 | 1636.3 | 1452.4 | 1291.0 | 1116.9 | 965.9 | 838.1 | 752.5 | 724.7 | 709.1 |
| 17.5° | 2443.8 | 1891.4 | 1503.3 | 1267.9 | 1061.4 | 879.8 | 689.5 | 580.1 | 528.7 | 515.4 | 515.4 |
| 20° | 2598.8 | 1882.1 | 1393.4 | 1097.8 | 840.4 | 629.9 | 473.7 | 411.2 | 394.5 | 392.7 | 397.4 |
| 22.5° | 2816.3 | 1914.5 | 1311.3 | 950.3 | 653.0 | 459.8 | 369.0 | 345.9 | 338.4 | 340.1 | 345.3 |
| 25° | 3140.2 | 2023.9 | 1251.7 | 819.0 | 512.5 | 376.5 | 329.1 | 315.2 | 311.8 | 316.4 | 322.8 |
| 27.5° | 3524.2 | 2133.2 | 1214.7 | 720.1 | 432.6 | 344.2 | 312.9 | 298.5 | 300.8 | 306.6 | 312.3 |
| 30° | 3861.5 | 2222.8 | 1156.2 | 649.6 | 407.8 | 345.9 | 312.9 | 293.3 | 290.9 | 292.1 | 293.8 |
| 32.5° | 4164.0 | 2283.6 | 1088.0 | 582.5 | 351.7 | 307.1 | 292.1 | 289.2 | 276.5 | 271.9 | 272.4 |
| 35° | 4424.8 | 2283.6 | 1046.9 | 543.1 | 315.2 | 272.4 | 248.1 | 233.7 | 227.3 | 227.9 | 234.3 |
| 37.5° | 4676.4 | 2237.9 | 1026.7 | 521.1 | 295.6 | 259.1 | 237.7 | 225.0 | 216.3 | 214.6 | 215.7 |
| 40° | 4898.5 | 2171.3 | 1003.5 | 511.9 | 280.5 | 251.0 | 230.8 | 220.4 | 211.1 | 208.2 | 208.8 |
| 42.5° | 5076.7 | 2117.6 | 978.1 | 499.7 | 271.3 | 245.2 | 226.2 | 216.9 | 206.5 | 203.6 | 203.0 |
| 45° | 5269.3 | 2099.6 | 944.5 | 475.5 | 275.9 | 245.8 | 225.0 | 215.2 | 204.8 | 201.3 | 200.1 |
| 47.5° | 5523.2 | 2155.7 | 909.8 | 446.5 | 285.7 | 248.7 | 226.7 | 215.2 | 204.2 | 201.3 | 200.1 |
| 50° | 5843.1 | 2287.6 | 865.9 | 404.3 | 275.9 | 256.8 | 226.2 | 213.4 | 204.2 | 201.3 | 199.0 |
| 52.5° | 6253.8 | 2465.8 | 808.0 | 355.7 | 270.1 | 276.5 | 225.0 | 210.0 | 201.3 | 197.2 | 193.2 |
| 55° | 6752.9 | 2611.5 | 739.2 | 315.8 | 256.8 | 271.3 | 223.3 | 205.9 | 196.7 | 190.9 | 187.4 |
| 57.5° | 7118.5 | 2664.1 | 650.7 | 289.8 | 238.3 | 262.6 | 221.0 | 200.7 | 190.9 | 186.2 | 181.6 |
| 60° | 7046.2 | 2562.3 | 576.1 | 273.6 | 227.3 | 237.1 | 219.2 | 196.1 | 185.7 | 182.2 | 178.1 |
| 62.5° | 6467.2 | 2296.3 | 528.1 | 266.1 | 220.4 | 216.3 | 221.0 | 191.5 | 181.0 | 177.6 | 176.4 |
| 65° | 5599.0 | 1903.5 | 509.0 | 264.3 | 214.6 | 204.2 | 205.3 | 186.2 | 175.8 | 172.9 | 171.8 |
| 67.5° | 4618.6 | 1536.3 | 492.2 | 270.1 | 207.1 | 195.5 | 189.7 | 179.3 | 170.6 | 167.7 | 165.4 |
| 70° | 3642.2 | 1277.7 | 484.7 | 266.6 | 197.8 | 186.8 | 180.5 | 171.8 | 164.3 | 161.4 | 159.6 |
| 72.5° | 2933.1 | 1079.3 | 480.7 | 263.2 | 185.7 | 175.3 | 169.5 | 162.0 | 153.9 | 152.7 | 151.0 |
| 75° | 2482.0 | 848.5 | 440.2 | 252.2 | 171.8 | 161.4 | 157.3 | 150.4 | 142.3 | 142.3 | 141.1 |
| 77.5° | 1914.5 | 613.7 | 366.1 | 223.3 | 157.3 | 145.8 | 142.3 | 137.1 | 127.8 | 129.6 | 129.0 |
| 80° | 1414.2 | 400.3 | 286.3 | 185.1 | 139.4 | 128.4 | 126.7 | 121.5 | 111.6 | 113.9 | 113.9 |
| 82.5° | 968.8 | 262.6 | 205.9 | 151.5 | 119.2 | 108.7 | 108.7 | 103.5 | 92.5 | 93.7 | 97.2 |
| 85° | 486.4 | 180.5 | 153.9 | 117.4 | 92.5 | 87.3 | 87.3 | 83.3 | 72.3 | 72.9 | 77.5 |
| 87.5° | 148.1 | 108.7 | 101.8 | 83.9 | 66.5 | 65.4 | 62.5 | 59.6 | 52.6 | 52.1 | 54.9 |
| 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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CATALOG NUMBER: GAN-AF-03-LED-U-SLL-7060-600-ADJ

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3554.9 | 3554.9 | 3554.9 | 3554.9 | 3554.9 | 3554.9 | 3554.9 | 3554.9 | 3554.9 | 3554.9 | 3554.9 |
| 2.5° | 3066.1 | 3033.2 | 2993.3 | 2905.3 | 2875.8 | 2874.1 | 2900.7 | 2873.0 | 2926.2 | 2903.6 | 2928.5 |
| 5° | 2472.7 | 2440.3 | 2395.8 | 2283.6 | 2215.3 | 2169.0 | 2147.1 | 2082.3 | 2129.1 | 2095.0 | 2123.3 |
| 7.5° | 1818.5 | 1826.0 | 1796.5 | 1730.6 | 1581.9 | 1507.3 | 1463.4 | 1424.0 | 1458.2 | 1454.7 | 1509.1 |
| 10° | 1278.3 | 1298.5 | 1277.7 | 1211.2 | 1090.9 | 1049.8 | 1057.9 | 1073.5 | 1118.1 | 1141.2 | 1225.1 |
| 12.5° | 920.2 | 919.1 | 905.8 | 846.2 | 767.0 | 771.6 | 804.6 | 831.8 | 872.8 | 897.1 | 982.7 |
| 15° | 687.1 | 676.7 | 671.0 | 622.4 | 577.3 | 587.1 | 603.3 | 606.2 | 632.2 | 646.7 | 716.1 |
| 17.5° | 519.4 | 524.6 | 531.0 | 496.3 | 462.1 | 455.8 | 443.1 | 427.4 | 435.0 | 437.9 | 472.6 |
| 20° | 412.4 | 433.2 | 448.8 | 424.6 | 389.8 | 371.3 | 355.1 | 344.7 | 344.7 | 344.2 | 354.0 |
| 22.5° | 360.3 | 375.4 | 392.2 | 375.4 | 344.2 | 328.0 | 318.7 | 310.6 | 309.4 | 309.4 | 318.7 |
| 25° | 332.0 | 343.0 | 359.2 | 347.6 | 324.5 | 312.3 | 303.7 | 293.3 | 289.2 | 288.0 | 294.4 |
| 27.5° | 318.1 | 322.8 | 330.8 | 320.4 | 300.8 | 295.0 | 292.7 | 283.4 | 278.2 | 275.3 | 281.7 |
| 30° | 294.4 | 293.3 | 293.8 | 283.4 | 267.8 | 267.2 | 271.3 | 273.0 | 271.3 | 270.7 | 280.5 |
| 32.5° | 272.4 | 270.1 | 269.5 | 260.3 | 245.8 | 242.4 | 245.8 | 249.3 | 253.3 | 259.1 | 270.7 |
| 35° | 244.7 | 250.5 | 253.9 | 245.8 | 228.5 | 218.1 | 214.0 | 207.6 | 204.2 | 204.2 | 217.5 |
| 37.5° | 222.7 | 236.0 | 241.2 | 233.7 | 214.6 | 200.1 | 193.2 | 192.0 | 192.6 | 194.9 | 207.6 |
| 40° | 215.2 | 225.0 | 229.6 | 222.1 | 203.0 | 189.7 | 185.7 | 184.5 | 185.7 | 189.1 | 201.9 |
| 42.5° | 210.5 | 217.5 | 216.9 | 207.6 | 192.0 | 182.8 | 180.5 | 179.3 | 180.5 | 183.9 | 197.8 |
| 45° | 206.5 | 211.1 | 206.5 | 195.5 | 181.0 | 176.4 | 177.0 | 176.4 | 177.6 | 181.0 | 194.3 |
| 47.5° | 203.0 | 204.8 | 199.0 | 188.0 | 172.9 | 171.8 | 174.1 | 175.8 | 177.0 | 179.9 | 193.8 |
| 50° | 197.8 | 197.8 | 192.6 | 181.0 | 166.0 | 166.6 | 169.5 | 173.5 | 174.1 | 177.6 | 188.6 |
| 52.5° | 191.5 | 190.9 | 187.4 | 176.4 | 160.2 | 162.0 | 162.0 | 166.6 | 167.7 | 171.8 | 183.4 |
| 55° | 186.2 | 185.1 | 183.4 | 172.9 | 155.0 | 157.9 | 156.2 | 157.9 | 160.8 | 164.8 | 177.6 |
| 57.5° | 181.6 | 179.3 | 179.3 | 170.1 | 151.0 | 152.1 | 148.1 | 150.4 | 153.9 | 157.3 | 170.6 |
| 60° | 177.0 | 174.7 | 175.8 | 166.0 | 144.6 | 143.4 | 141.7 | 146.3 | 147.5 | 151.5 | 164.8 |
| 62.5° | 171.8 | 170.1 | 170.6 | 161.4 | 140.0 | 137.1 | 137.1 | 141.1 | 141.7 | 147.5 | 160.2 |
| 65° | 167.7 | 165.4 | 164.8 | 156.7 | 134.8 | 131.3 | 133.0 | 134.8 | 135.9 | 141.7 | 153.9 |
| 67.5° | 163.7 | 159.1 | 159.1 | 152.7 | 129.0 | 125.5 | 129.0 | 128.4 | 130.1 | 135.3 | 145.2 |
| 70° | 158.5 | 152.1 | 152.7 | 149.8 | 123.2 | 119.2 | 122.0 | 121.5 | 122.6 | 126.1 | 135.9 |
| 72.5° | 150.4 | 145.2 | 146.3 | 145.2 | 117.4 | 111.6 | 112.8 | 112.8 | 112.8 | 115.7 | 126.1 |
| 75° | 140.0 | 135.9 | 139.4 | 142.3 | 110.5 | 102.4 | 103.5 | 103.5 | 101.8 | 103.5 | 116.3 |
| 77.5° | 127.2 | 124.9 | 136.5 | 132.5 | 102.4 | 92.5 | 92.5 | 91.4 | 87.9 | 90.2 | 104.1 |
| 80° | 113.4 | 111.6 | 126.1 | 111.1 | 93.1 | 80.4 | 79.2 | 76.3 | 72.9 | 74.6 | 88.5 |
| 82.5° | 98.9 | 97.2 | 105.8 | 85.0 | 80.4 | 66.5 | 63.6 | 58.4 | 54.9 | 56.7 | 69.4 |
| 85° | 81.0 | 81.0 | 81.6 | 64.2 | 61.3 | 50.9 | 47.4 | 40.5 | 36.4 | 37.6 | 49.7 |
| 87.5° | 57.8 | 59.6 | 54.9 | 44.0 | 36.4 | 28.3 | 26.0 | 22.0 | 18.5 | 21.4 | 26.0 |
| 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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| 5° | 2284.7 | 2390.6 | 2522.4 | 2691.9 | 2849.8 | 3087.0 | 3322.4 | 3473.3 |
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| 35° | 233.1 | 254.5 | 288.0 | 502.1 | 978.7 | 2418.3 | 4501.2 | 5180.8 |
| 37.5° | 222.1 | 243.5 | 267.8 | 495.1 | 992.0 | 2484.8 | 4847.1 | 5598.4 |
| 40° | 215.2 | 234.8 | 255.7 | 491.1 | 1004.7 | 2545.6 | 5186.0 | 6011.4 |
| 42.5° | 210.5 | 228.5 | 254.5 | 477.2 | 1011.1 | 2599.9 | 5464.8 | 6362.5 |
| 45° | 210.0 | 228.5 | 259.1 | 463.3 | 1020.9 | 2658.4 | 5698.5 | 6622.2 |
| 47.5° | 210.5 | 236.0 | 250.5 | 446.5 | 1020.9 | 2756.1 | 5972.6 | 6854.1 |
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| 57.5° | 201.3 | 211.1 | 203.6 | 284.6 | 834.1 | 3781.1 | 7701.5 | 8493.9 |
| 60° | 225.6 | 184.5 | 197.8 | 261.4 | 735.2 | 3842.9 | 7687.6 | 8651.3 |
| 62.5° | 208.8 | 172.9 | 190.3 | 256.2 | 665.7 | 3669.4 | 7332.5 | 8566.2 |
| 65° | 163.7 | 165.4 | 182.8 | 271.3 | 647.2 | 3209.6 | 6703.2 | 8173.5 |
| 67.5° | 149.8 | 157.9 | 175.3 | 290.4 | 649.0 | 2569.9 | 5762.7 | 7318.0 |
| 70° | 141.1 | 149.8 | 166.6 | 300.2 | 653.6 | 1915.7 | 4556.1 | 5960.5 |
| 72.5° | 131.3 | 138.8 | 156.7 | 301.9 | 623.5 | 1391.7 | 3511.5 | 4382.6 |
| 75° | 119.7 | 126.7 | 142.9 | 263.2 | 516.5 | 965.4 | 2686.1 | 2998.5 |
| 77.5° | 106.4 | 111.6 | 125.5 | 203.0 | 383.5 | 617.7 | 2016.3 | 2190.4 |
| 80° | 90.8 | 93.7 | 105.3 | 148.7 | 262.6 | 386.4 | 1595.3 | 1757.8 |
| 82.5° | 72.9 | 74.0 | 81.6 | 111.6 | 170.6 | 248.1 | 1068.3 | 1219.3 |
| 85° | 51.5 | 51.5 | 56.1 | 81.0 | 116.3 | 157.3 | 580.1 | 643.2 |
| 87.5° | 24.3 | 24.9 | 24.9 | 44.5 | 60.7 | 79.8 | 133.6 | 82.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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