

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: P268640

Luminaire Tested: **GAN-AF-06-LED-U-T4W-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-06-LED-U-T4W-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33693.3 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

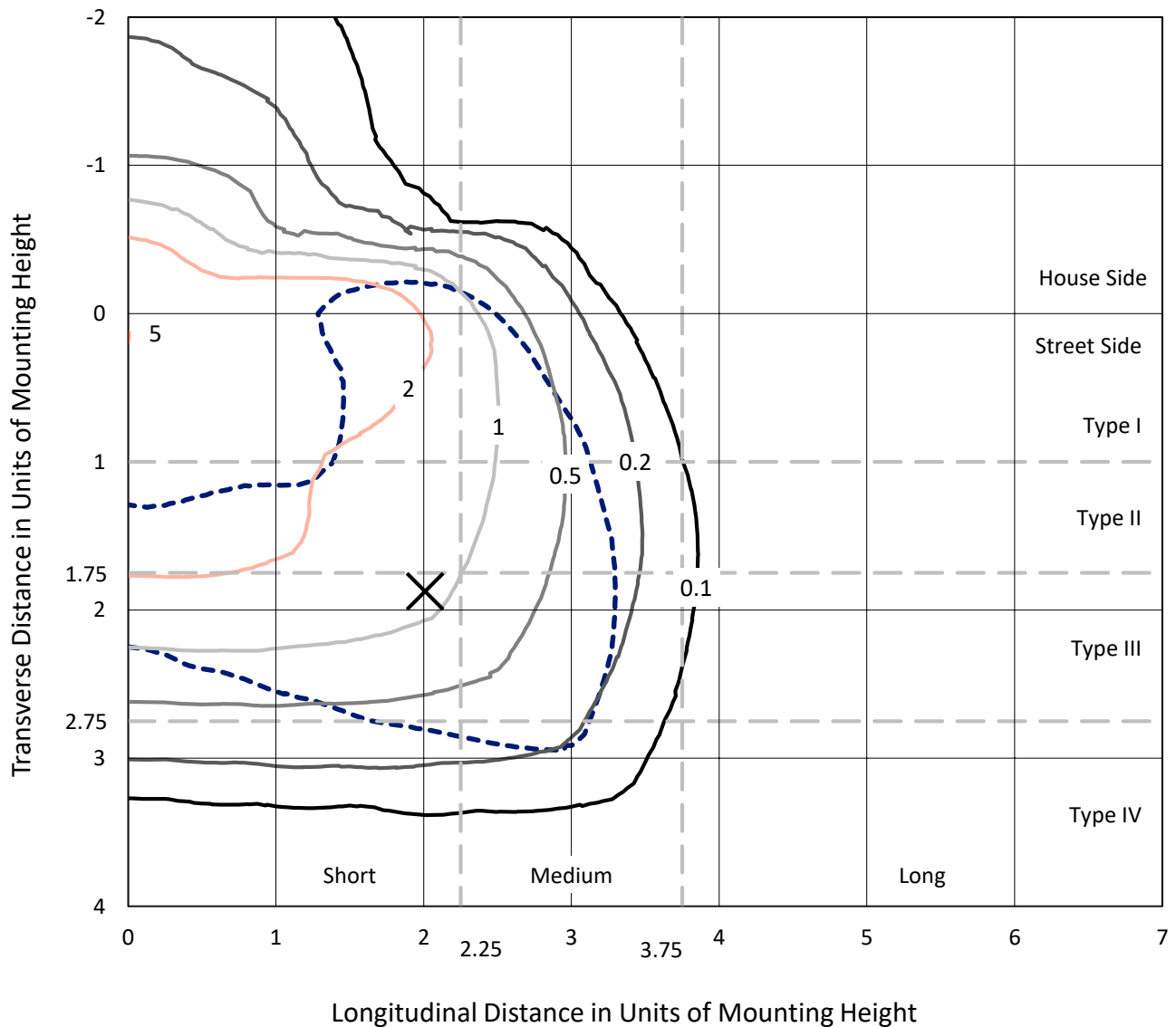
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

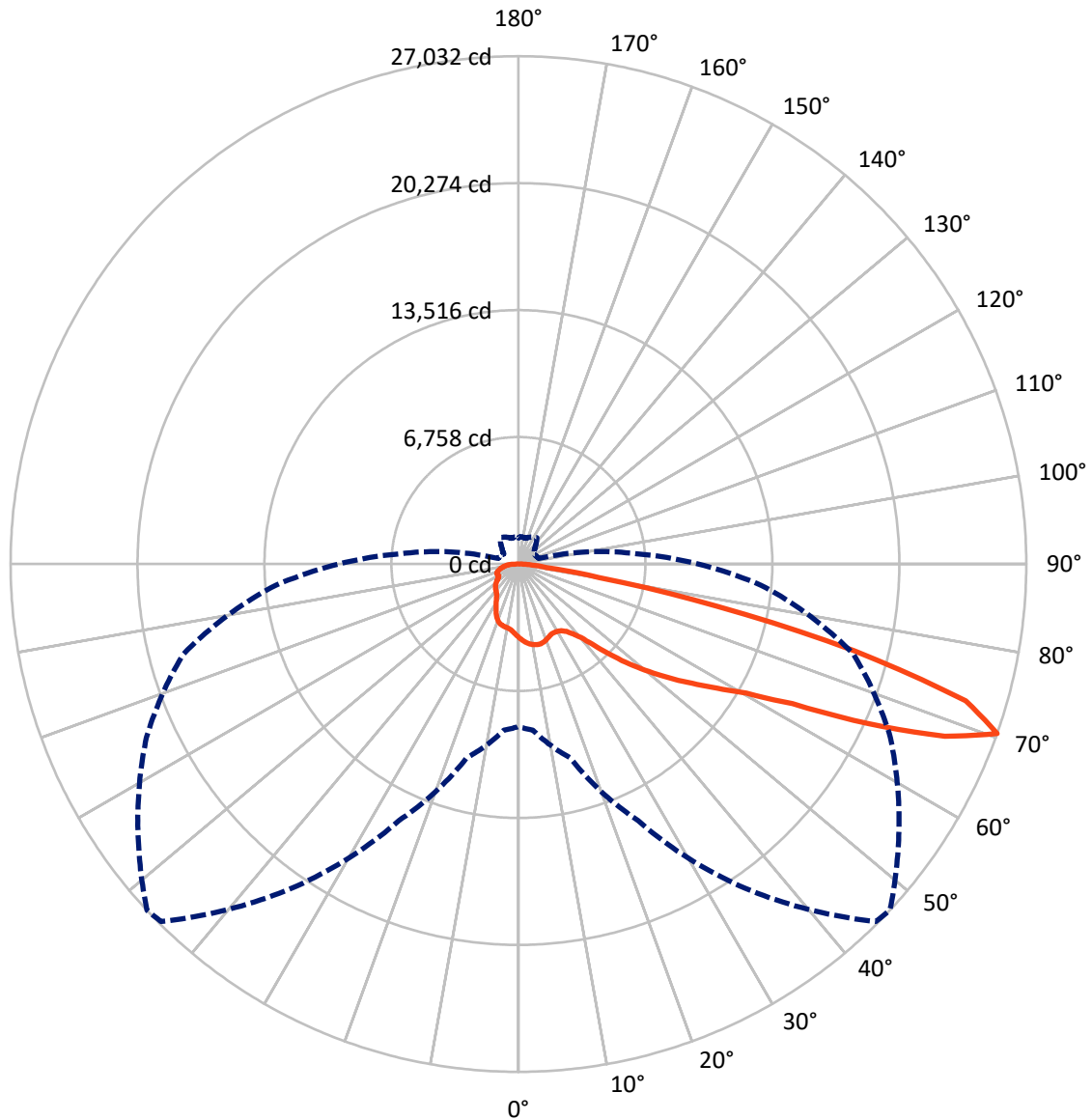
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7029.1 | 0.0 | 7029.1 |
| | % Fixture | 20.9 | 0.0 | 20.9 |
| Street Side | Lumens | 26664.2 | 0.0 | 26664.2 |
| | % Fixture | 79.1 | 0.0 | 79.1 |
| Total | Lumens | 33693.3 | 0.0 | 33693.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 374.6 | 1.1 |
| 10°-20° | 1099.0 | 3.3 |
| 20°-30° | 1622.9 | 4.8 |
| 30°-40° | 2358.8 | 7.0 |
| 40°-50° | 4245.0 | 12.6 |
| 50°-60° | 7354.1 | 21.8 |
| 60°-70° | 10496.4 | 31.2 |
| 70°-80° | 5388.3 | 16.0 |
| 80°-90° | 754.4 | 2.2 |
| 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° | 33693.3 | 100.0 |
| 0°-180° | 33693.3 | 100.0 |

Coefficient of Utilization



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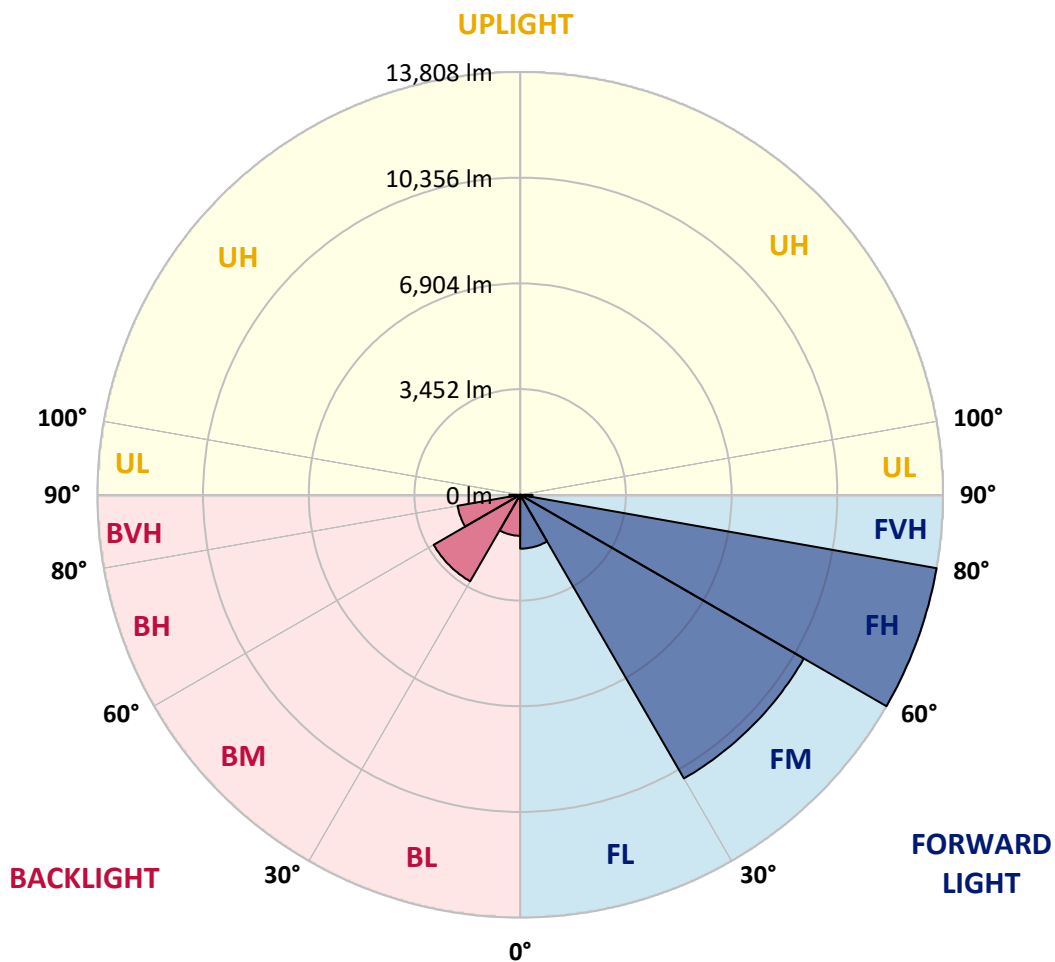
CATALOG NUMBER: GAN-AF-06-LED-U-T4W-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1758.0 | 5.2 | | | |
| FM | (30°-60°) | 10695.2 | 31.7 | | | |
| FH | (60°-80°) | 13808.4 | 41.0 | | | G5 |
| FVH | (80°-90°) | 402.5 | 1.2 | | | G3/500 |
| BL | (0°-30°) | 1338.4 | 4.0 | B3/2500 | | |
| BM | (30°-60°) | 3262.7 | 9.7 | B3/5000 | | |
| BH | (60°-80°) | 2076.2 | 6.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 351.8 | 1.0 | | | G3/500 |
| 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° | 47° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3909.5 | 3909.5 | 3909.5 | 3909.5 | 3909.5 | 3909.5 | 3909.5 | 3909.5 | 3909.5 | 3909.5 | 3909.5 |
| 2.5° | 4138.9 | 4130.8 | 4127.5 | 4121.0 | 4112.7 | 4071.7 | 4063.6 | 4034.1 | 3993.1 | 3950.4 | 3906.2 |
| 5° | 4411.0 | 4409.4 | 4391.4 | 4358.5 | 4306.1 | 4215.9 | 4194.6 | 4122.5 | 4025.8 | 3932.4 | 3838.9 |
| 7.5° | 4650.3 | 4635.7 | 4601.2 | 4535.6 | 4443.8 | 4320.8 | 4291.5 | 4191.4 | 4058.6 | 3930.8 | 3804.5 |
| 10° | 4825.8 | 4817.6 | 4742.2 | 4652.1 | 4532.4 | 4396.3 | 4361.9 | 4250.4 | 4104.5 | 3942.2 | 3784.9 |
| 12.5° | 4925.8 | 4909.3 | 4822.6 | 4714.3 | 4571.7 | 4439.0 | 4404.5 | 4291.5 | 4127.5 | 3942.2 | 3757.0 |
| 15° | 4919.2 | 4907.7 | 4820.8 | 4702.8 | 4558.5 | 4442.2 | 4411.0 | 4298.0 | 4122.5 | 3925.9 | 3721.0 |
| 17.5° | 4788.1 | 4792.9 | 4719.2 | 4602.8 | 4484.8 | 4396.3 | 4368.5 | 4263.5 | 4089.8 | 3893.1 | 3678.3 |
| 20° | 4558.5 | 4581.5 | 4532.4 | 4429.2 | 4363.5 | 4302.9 | 4284.8 | 4196.3 | 4039.0 | 3845.6 | 3632.4 |
| 22.5° | 4329.1 | 4350.4 | 4330.8 | 4243.9 | 4234.0 | 4198.0 | 4188.2 | 4124.2 | 3994.8 | 3816.0 | 3604.5 |
| 25° | 4160.3 | 4180.0 | 4176.7 | 4101.2 | 4130.8 | 4129.1 | 4121.0 | 4089.8 | 3984.9 | 3816.0 | 3609.5 |
| 27.5° | 4114.3 | 4121.0 | 4114.3 | 4045.5 | 4086.5 | 4119.3 | 4112.7 | 4107.8 | 4014.3 | 3863.6 | 3671.8 |
| 30° | 4271.7 | 4261.9 | 4211.1 | 4071.7 | 4109.4 | 4155.4 | 4148.8 | 4152.1 | 4102.9 | 3988.1 | 3811.1 |
| 32.5° | 4899.5 | 4855.2 | 4694.6 | 4302.9 | 4202.9 | 4227.5 | 4230.7 | 4284.8 | 4293.0 | 4180.0 | 4027.6 |
| 35° | 5838.9 | 5789.7 | 5581.4 | 4922.5 | 4493.1 | 4407.8 | 4407.8 | 4489.8 | 4539.0 | 4455.4 | 4363.5 |
| 37.5° | 6833.8 | 6779.7 | 6668.2 | 5781.4 | 5102.8 | 4720.9 | 4712.7 | 4770.0 | 4840.5 | 4860.2 | 4883.1 |
| 40° | 7964.8 | 7907.5 | 7938.6 | 6745.3 | 5953.5 | 5263.4 | 5147.1 | 5106.1 | 5296.2 | 5422.4 | 5606.1 |
| 42.5° | 9202.3 | 9176.1 | 9187.7 | 7818.9 | 6922.2 | 6074.9 | 5909.3 | 5697.8 | 5927.2 | 6152.0 | 6537.1 |
| 45° | 10348.3 | 10371.1 | 10359.7 | 8968.0 | 8000.8 | 7064.9 | 6889.6 | 6479.7 | 6704.3 | 7089.6 | 7717.2 |
| 47.5° | 11351.4 | 11256.3 | 11403.9 | 10223.6 | 9209.0 | 8173.0 | 7956.6 | 7407.6 | 7635.4 | 8110.6 | 9173.0 |
| 50° | 12569.4 | 12556.1 | 12339.8 | 11898.9 | 10669.4 | 9286.0 | 9002.5 | 8366.5 | 8720.4 | 9381.1 | 11007.1 |
| 52.5° | 13849.4 | 13611.8 | 13413.5 | 13202.0 | 12218.6 | 10426.8 | 10079.4 | 9322.2 | 9995.8 | 10826.8 | 13243.1 |
| 55° | 14111.8 | 14005.2 | 14251.2 | 14606.8 | 13711.8 | 11612.0 | 11207.2 | 10520.3 | 11431.7 | 12479.2 | 15821.5 |
| 57.5° | 14672.3 | 14670.8 | 15178.9 | 15813.3 | 15249.4 | 12869.3 | 12461.1 | 11967.7 | 13046.4 | 14372.4 | 18559.0 |
| 60° | 15051.0 | 15157.6 | 16101.8 | 17332.7 | 16759.0 | 14321.6 | 13946.2 | 13638.1 | 14882.2 | 16488.6 | 21109.5 |
| 62.5° | 15249.4 | 15393.6 | 16682.1 | 17949.2 | 18893.3 | 16739.5 | 16364.1 | 15919.9 | 17311.4 | 18809.7 | 22601.1 |
| 65° | 14424.9 | 14708.5 | 16591.9 | 18481.9 | 20761.9 | 20658.7 | 20489.9 | 19709.6 | 20348.9 | 20643.9 | 22061.8 |
| 67.5° | 12143.1 | 12433.3 | 14626.6 | 17985.1 | 22096.2 | 24438.7 | 24474.7 | 23142.0 | 22217.6 | 20801.3 | 18549.1 |
| 70° | 8651.7 | 8879.4 | 10694.1 | 15078.9 | 21079.9 | 26909.0 | 27031.8 | 24724.0 | 21845.5 | 18447.5 | 12959.5 |
| 72.5° | 4107.8 | 4247.1 | 5965.0 | 9813.9 | 16728.0 | 24655.2 | 24892.8 | 22704.4 | 18575.3 | 13657.7 | 7069.8 |
| 75° | 1509.7 | 1552.4 | 2016.2 | 4175.1 | 9702.4 | 18182.0 | 18462.1 | 16275.5 | 12313.5 | 6799.5 | 2693.2 |
| 77.5° | 904.9 | 932.7 | 1131.1 | 1762.1 | 3816.0 | 10392.5 | 10807.1 | 8851.5 | 5381.4 | 2531.0 | 1324.6 |
| 80° | 632.8 | 652.3 | 811.3 | 1096.7 | 1803.1 | 3960.3 | 4329.1 | 3612.8 | 2144.1 | 1601.5 | 963.8 |
| 82.5° | 427.9 | 437.7 | 570.5 | 740.9 | 1198.2 | 1414.7 | 1526.1 | 1606.3 | 1445.7 | 1191.7 | 611.4 |
| 85° | 280.4 | 290.2 | 386.8 | 488.5 | 762.2 | 731.1 | 747.5 | 945.8 | 1055.7 | 809.7 | 339.3 |
| 87.5° | 160.6 | 167.3 | 232.8 | 260.6 | 373.8 | 309.8 | 313.1 | 498.3 | 675.3 | 545.8 | 206.5 |
| 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-06-LED-U-T4W-7027-1200

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3909.5 | 3909.5 | 3909.5 | 3909.5 | 3909.5 | 3909.5 | 3909.5 | 3909.5 | 3909.5 | 3909.5 | 3909.5 |
| 2.5° | 3894.7 | 3873.4 | 3825.9 | 3796.3 | 3768.5 | 3761.9 | 3750.5 | 3748.8 | 3747.2 | 3747.2 | 3742.2 |
| 5° | 3807.8 | 3771.8 | 3698.1 | 3657.0 | 3622.7 | 3619.4 | 3617.7 | 3625.9 | 3629.2 | 3632.4 | 3627.5 |
| 7.5° | 3752.1 | 3703.0 | 3611.1 | 3552.1 | 3511.1 | 3501.4 | 3517.8 | 3555.4 | 3579.9 | 3589.8 | 3584.9 |
| 10° | 3717.6 | 3657.0 | 3550.6 | 3486.5 | 3452.1 | 3447.2 | 3468.5 | 3512.8 | 3563.5 | 3583.2 | 3581.6 |
| 12.5° | 3678.3 | 3609.5 | 3496.5 | 3429.2 | 3409.4 | 3419.4 | 3447.2 | 3488.2 | 3540.7 | 3571.8 | 3573.5 |
| 15° | 3639.0 | 3558.6 | 3442.2 | 3383.2 | 3375.1 | 3388.1 | 3414.5 | 3445.5 | 3486.5 | 3517.8 | 3520.9 |
| 17.5° | 3591.5 | 3507.9 | 3391.6 | 3330.8 | 3324.3 | 3330.8 | 3332.5 | 3348.9 | 3375.1 | 3404.5 | 3412.8 |
| 20° | 3540.7 | 3455.4 | 3334.1 | 3273.5 | 3244.0 | 3217.6 | 3188.3 | 3191.5 | 3199.8 | 3229.1 | 3235.8 |
| 22.5° | 3504.6 | 3419.4 | 3289.9 | 3206.3 | 3127.5 | 3048.8 | 2989.9 | 2981.7 | 2985.0 | 3009.5 | 3017.8 |
| 25° | 3507.9 | 3417.7 | 3278.4 | 3134.1 | 2962.0 | 2835.8 | 2757.1 | 2744.1 | 2742.3 | 2760.4 | 2771.9 |
| 27.5° | 3571.8 | 3481.7 | 3321.0 | 3060.3 | 2781.7 | 2594.8 | 2511.2 | 2501.4 | 2488.2 | 2493.2 | 2506.4 |
| 30° | 3714.4 | 3630.8 | 3424.2 | 2985.0 | 2586.6 | 2358.8 | 2272.0 | 2262.1 | 2244.1 | 2235.8 | 2245.8 |
| 32.5° | 3947.2 | 3878.3 | 3575.1 | 2912.8 | 2391.6 | 2157.2 | 2068.6 | 2047.3 | 2035.9 | 2026.0 | 2034.2 |
| 35° | 4334.1 | 4304.5 | 3776.7 | 2834.2 | 2219.4 | 2001.5 | 1921.1 | 1888.3 | 1872.0 | 1889.9 | 1903.1 |
| 37.5° | 4940.5 | 4956.8 | 4040.5 | 2711.3 | 2086.8 | 1898.2 | 1830.9 | 1793.2 | 1768.8 | 1783.5 | 1798.1 |
| 40° | 5799.5 | 5811.0 | 4332.3 | 2537.4 | 1972.0 | 1837.6 | 1765.3 | 1730.9 | 1696.5 | 1670.4 | 1668.7 |
| 42.5° | 6927.2 | 6810.8 | 4619.3 | 2349.0 | 1839.2 | 1799.8 | 1719.5 | 1676.9 | 1624.5 | 1552.4 | 1537.5 |
| 45° | 8264.8 | 7856.7 | 4837.3 | 2132.5 | 1690.0 | 1753.9 | 1668.7 | 1609.8 | 1527.7 | 1449.1 | 1440.8 |
| 47.5° | 9805.5 | 8979.5 | 4943.8 | 1908.0 | 1550.7 | 1686.7 | 1606.3 | 1512.9 | 1409.7 | 1370.4 | 1365.5 |
| 50° | 11687.4 | 10312.2 | 4994.7 | 1690.0 | 1429.4 | 1598.3 | 1516.2 | 1406.4 | 1319.5 | 1311.3 | 1306.5 |
| 52.5° | 13829.9 | 11915.3 | 5011.0 | 1511.3 | 1329.4 | 1483.6 | 1442.5 | 1335.9 | 1267.1 | 1273.6 | 1273.6 |
| 55° | 16072.3 | 13570.9 | 4788.1 | 1381.9 | 1237.5 | 1365.5 | 1393.4 | 1308.1 | 1250.7 | 1276.9 | 1286.7 |
| 57.5° | 18131.1 | 15037.9 | 4086.5 | 1281.8 | 1150.6 | 1275.4 | 1375.2 | 1334.3 | 1294.9 | 1401.5 | 1408.1 |
| 60° | 19711.2 | 15905.1 | 3052.3 | 1191.7 | 1086.8 | 1244.2 | 1422.8 | 1434.4 | 1444.1 | 1698.2 | 1732.7 |
| 62.5° | 20042.4 | 15616.6 | 2098.3 | 1121.3 | 1057.2 | 1270.4 | 1509.7 | 1511.3 | 1499.9 | 1676.9 | 1698.2 |
| 65° | 18522.8 | 13792.1 | 1526.1 | 1081.9 | 1032.7 | 1318.0 | 1583.4 | 1549.0 | 1473.6 | 1608.1 | 1568.7 |
| 67.5° | 14710.0 | 10390.9 | 1270.4 | 1052.4 | 996.6 | 1314.6 | 1662.1 | 1583.4 | 1458.8 | 1575.3 | 1511.3 |
| 70° | 9548.3 | 6283.0 | 1131.1 | 1027.8 | 954.0 | 1252.3 | 1708.0 | 1580.2 | 1416.3 | 1465.5 | 1390.0 |
| 72.5° | 4658.6 | 2809.5 | 1037.6 | 991.6 | 909.8 | 1165.6 | 1706.4 | 1550.7 | 1372.0 | 1368.7 | 1327.8 |
| 75° | 1822.8 | 1286.7 | 952.4 | 937.7 | 834.3 | 1067.0 | 1660.4 | 1508.1 | 1319.5 | 1267.1 | 1252.3 |
| 77.5° | 1067.0 | 918.0 | 844.1 | 857.3 | 744.2 | 968.7 | 1593.4 | 1434.4 | 1247.4 | 1185.1 | 1168.8 |
| 80° | 776.9 | 686.8 | 719.6 | 740.9 | 636.0 | 870.4 | 1503.1 | 1344.1 | 1167.1 | 1198.2 | 1175.3 |
| 82.5° | 498.3 | 442.5 | 583.5 | 604.9 | 529.5 | 770.4 | 1404.8 | 1249.1 | 1054.0 | 957.2 | 934.3 |
| 85° | 254.1 | 280.4 | 434.4 | 460.7 | 408.2 | 632.8 | 1285.1 | 1122.8 | 926.2 | 796.6 | 809.7 |
| 87.5° | 142.7 | 191.8 | 277.0 | 309.8 | 288.4 | 486.8 | 1042.6 | 926.2 | 755.7 | 614.7 | 540.9 |
| 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)