

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: P193945

Luminaire Tested: **GAN-AF-07-LED-U-T2R-8030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
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-T2R-8030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28918 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

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

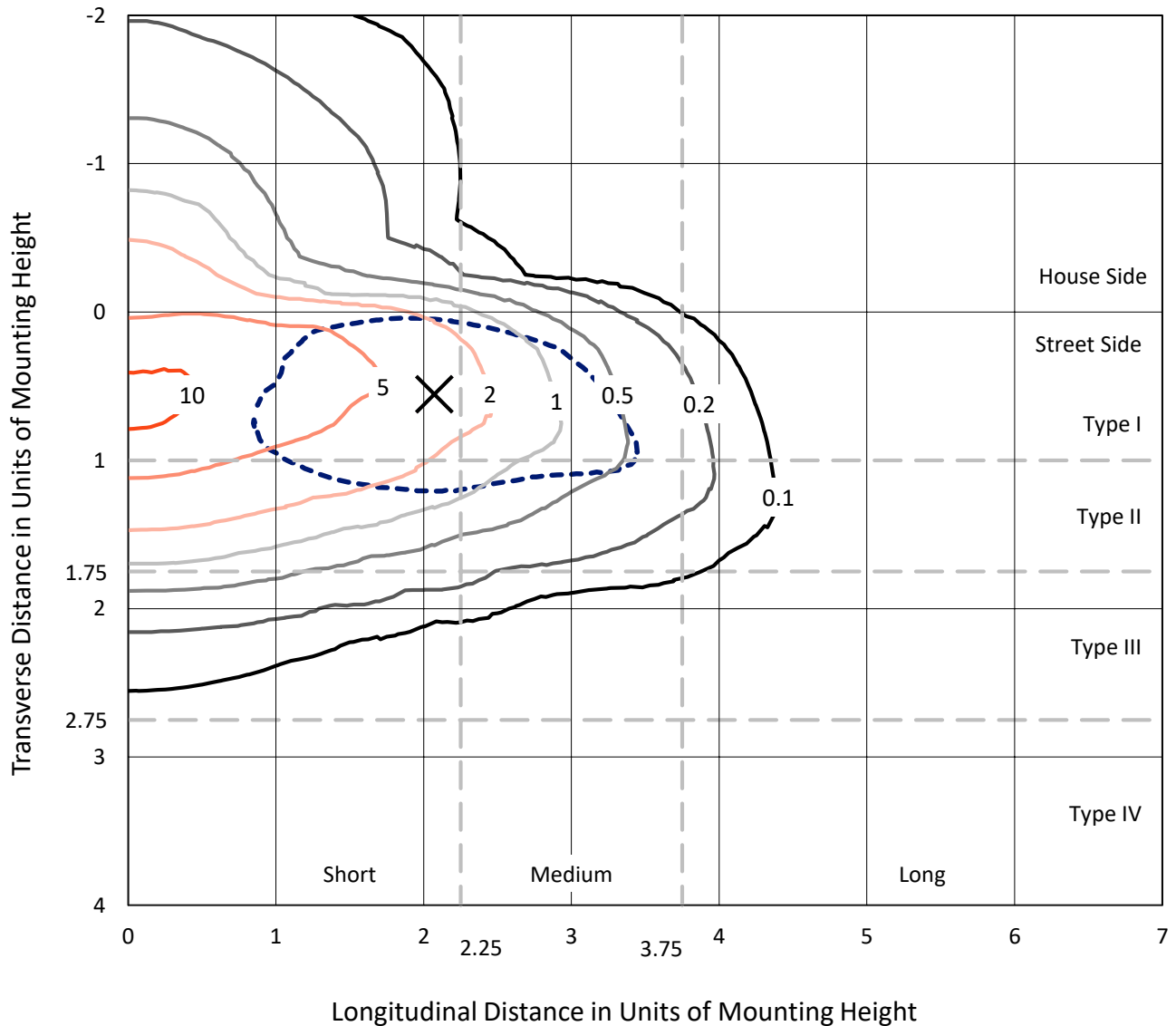


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

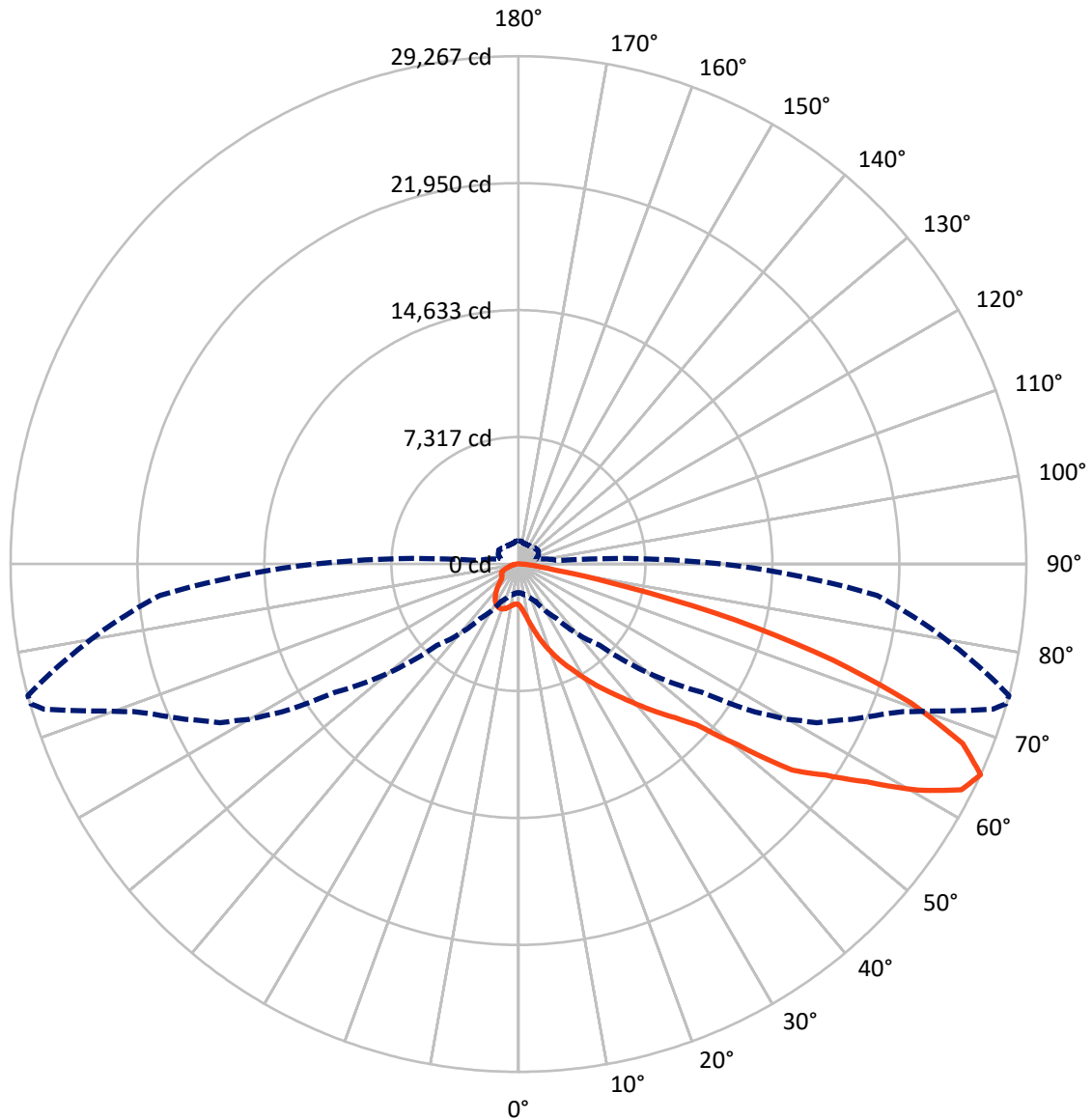


Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4458.5 | 0.0 | 4458.5 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 24459.5 | 0.0 | 24459.5 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 28918.0 | 0.0 | 28918.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 290.5 | 1.0 |
| 10°-20° | 1135.0 | 3.9 |
| 20°-30° | 2328.6 | 8.1 |
| 30°-40° | 3917.8 | 13.5 |
| 40°-50° | 5413.3 | 18.7 |
| 50°-60° | 6757.4 | 23.4 |
| 60°-70° | 6081.0 | 21.0 |
| 70°-80° | 2549.1 | 8.8 |
| 80°-90° | 445.3 | 1.5 |
| 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° | 28918.0 | 100.0 |
| 0°-180° | 28918.0 | 100.0 |

Coefficient of Utilization



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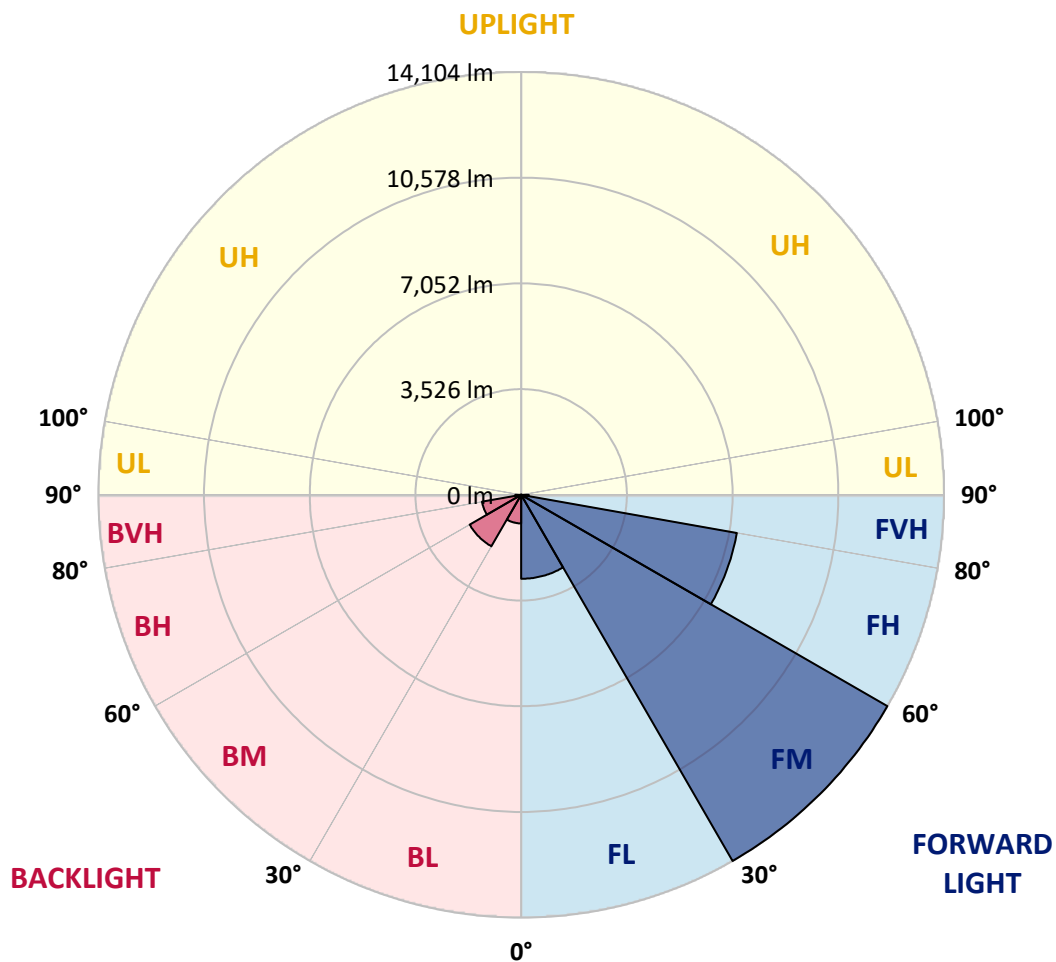
CATALOG NUMBER: GAN-AF-07-LED-U-T2R-8030-800-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2800.6 | 9.7 | | | |
| FM (30°-60°) | 14104.0 | 48.8 | | | |
| FH (60°-80°) | 7304.6 | 25.3 | | | G3/7500 |
| FVH (80°-90°) | 250.3 | 0.9 | | | G3/500 |
| BL (0°-30°) | 953.5 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 1984.5 | 6.9 | B2/2500 | | |
| BH (60°-80°) | 1325.4 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 195.0 | 0.7 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2350.1 | 2350.1 | 2350.1 | 2350.1 | 2350.1 | 2350.1 | 2350.1 | 2350.1 | 2350.1 | 2350.1 | 2350.1 |
| 2.5° | 2983.9 | 2951.0 | 2959.2 | 2904.5 | 2837.4 | 2749.8 | 2652.6 | 2651.3 | 2652.6 | 2643.1 | 2607.5 |
| 5° | 4137.7 | 4098.0 | 4083.0 | 3959.8 | 3779.1 | 3521.8 | 3242.6 | 3212.5 | 3200.1 | 3168.7 | 3096.1 |
| 7.5° | 4979.5 | 4957.6 | 4934.3 | 4841.3 | 4677.0 | 4389.6 | 4014.5 | 3950.2 | 3888.6 | 3873.6 | 3791.4 |
| 10° | 5522.9 | 5517.4 | 5468.1 | 5443.5 | 5340.9 | 5091.7 | 4726.3 | 4664.7 | 4597.6 | 4574.4 | 4488.1 |
| 12.5° | 5952.7 | 5951.3 | 5928.0 | 5934.9 | 5845.9 | 5665.2 | 5350.4 | 5294.3 | 5245.0 | 5173.9 | 5112.3 |
| 15° | 6249.7 | 6251.1 | 6285.3 | 6323.6 | 6309.9 | 6188.1 | 5892.5 | 5867.8 | 5825.4 | 5776.1 | 5703.6 |
| 17.5° | 6493.3 | 6500.2 | 6535.8 | 6605.6 | 6680.9 | 6671.3 | 6437.2 | 6416.7 | 6379.7 | 6312.7 | 6274.3 |
| 20° | 7043.6 | 7069.6 | 7001.1 | 7001.1 | 7009.4 | 7046.3 | 6934.1 | 6917.7 | 6865.6 | 6830.1 | 6799.9 |
| 22.5° | 7973.0 | 8003.1 | 7848.4 | 7691.0 | 7536.3 | 7424.1 | 7311.9 | 7332.4 | 7296.8 | 7272.2 | 7254.4 |
| 25° | 9180.2 | 9203.5 | 8953.0 | 8687.4 | 8372.6 | 7962.0 | 7684.2 | 7671.8 | 7652.7 | 7637.6 | 7629.4 |
| 27.5° | 10316.3 | 10325.8 | 10089.0 | 9700.3 | 9334.9 | 8744.9 | 8061.9 | 8046.9 | 8023.6 | 7994.9 | 7970.2 |
| 30° | 11288.1 | 11285.3 | 11041.7 | 10670.8 | 10279.3 | 9626.4 | 8635.4 | 8588.9 | 8520.5 | 8442.4 | 8382.2 |
| 32.5° | 12129.8 | 12125.7 | 11858.8 | 11474.2 | 11063.6 | 10499.7 | 9421.1 | 9325.3 | 9218.5 | 9066.6 | 8974.9 |
| 35° | 12792.3 | 12789.6 | 12537.7 | 12136.7 | 11665.8 | 11322.3 | 10321.7 | 10204.0 | 10068.5 | 9864.6 | 9723.6 |
| 37.5° | 13042.8 | 13042.8 | 12901.8 | 12628.1 | 12212.0 | 11976.5 | 11322.3 | 11179.9 | 11034.8 | 10803.5 | 10644.8 |
| 40° | 12896.3 | 12899.1 | 12929.2 | 12878.6 | 12676.0 | 12495.3 | 12255.8 | 12170.9 | 12046.4 | 11838.3 | 11672.7 |
| 42.5° | 12405.0 | 12420.0 | 12619.9 | 12864.9 | 12966.2 | 12937.4 | 13083.9 | 13045.5 | 12957.9 | 12797.8 | 12666.4 |
| 45° | 11782.2 | 11828.7 | 12047.7 | 12510.4 | 13046.9 | 13319.3 | 13777.8 | 13781.9 | 13765.5 | 13679.3 | 13578.0 |
| 47.5° | 10926.7 | 10992.4 | 11281.2 | 11906.7 | 12858.0 | 13690.2 | 14482.7 | 14519.7 | 14553.9 | 14497.8 | 14451.2 |
| 50° | 9790.7 | 9868.7 | 10301.2 | 11130.7 | 12473.4 | 14074.8 | 15814.5 | 15981.5 | 16137.5 | 16118.4 | 16149.9 |
| 52.5° | 8573.8 | 8665.5 | 9195.3 | 10119.2 | 11812.3 | 14163.8 | 16665.9 | 16938.3 | 17210.6 | 17433.7 | 17670.5 |
| 55° | 7476.1 | 7426.8 | 7956.5 | 8929.7 | 10725.5 | 13762.8 | 17431.0 | 17759.5 | 18063.4 | 18337.1 | 18619.1 |
| 57.5° | 5988.3 | 6069.0 | 6600.1 | 7562.3 | 9287.0 | 12630.8 | 17958.0 | 18438.4 | 18875.0 | 19328.1 | 19727.8 |
| 60° | 4377.3 | 4458.0 | 5034.3 | 6011.5 | 7725.2 | 10914.4 | 17555.6 | 18283.7 | 18983.2 | 19677.1 | 20219.1 |
| 62.5° | 2643.1 | 2703.3 | 3211.1 | 4141.8 | 5956.8 | 8879.1 | 15762.5 | 16717.9 | 17747.2 | 18576.7 | 19407.5 |
| 65° | 1645.2 | 1679.5 | 1867.0 | 2378.9 | 3825.7 | 6628.8 | 12878.6 | 13920.2 | 15028.9 | 16081.4 | 16945.1 |
| 67.5° | 1346.8 | 1359.2 | 1393.4 | 1502.9 | 2101.0 | 4322.5 | 9585.3 | 10507.9 | 11508.4 | 12526.8 | 13487.6 |
| 70° | 1211.3 | 1203.1 | 1203.1 | 1210.0 | 1346.8 | 2324.1 | 6275.7 | 6876.6 | 7710.2 | 8595.7 | 9474.5 |
| 72.5° | 1093.6 | 1085.4 | 1070.4 | 1049.8 | 1099.1 | 1418.0 | 3243.9 | 3697.0 | 4297.9 | 5084.9 | 5926.7 |
| 75° | 982.8 | 971.8 | 954.0 | 928.0 | 962.2 | 1070.4 | 1557.6 | 1747.9 | 2040.8 | 2459.6 | 2929.1 |
| 77.5° | 867.8 | 854.1 | 837.7 | 818.5 | 862.3 | 832.2 | 913.0 | 981.4 | 1093.6 | 1227.8 | 1404.3 |
| 80° | 737.8 | 725.4 | 720.0 | 710.4 | 762.4 | 633.7 | 644.7 | 687.1 | 752.8 | 825.4 | 907.5 |
| 82.5° | 577.6 | 577.6 | 599.5 | 603.6 | 661.1 | 455.8 | 481.8 | 518.8 | 553.0 | 591.3 | 629.6 |
| 85° | 380.5 | 383.2 | 457.2 | 485.9 | 521.5 | 306.6 | 361.3 | 373.7 | 401.0 | 422.9 | 439.4 |
| 87.5° | 119.1 | 128.7 | 279.2 | 309.3 | 299.8 | 173.8 | 221.7 | 227.2 | 246.4 | 261.4 | 275.1 |
| 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-T2R-8030-800-ADJ

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2350.1 | 2350.1 | 2350.1 | 2350.1 | 2350.1 | 2350.1 | 2350.1 | 2350.1 | 2350.1 | 2350.1 | 2350.1 |
| 2.5° | 2607.5 | 2591.0 | 2576.0 | 2574.6 | 2563.7 | 2548.6 | 2554.1 | 2530.8 | 2532.2 | 2519.9 | 2506.2 |
| 5° | 3066.0 | 3055.0 | 3000.3 | 2985.2 | 2944.2 | 2918.2 | 2914.1 | 2859.3 | 2852.5 | 2821.0 | 2786.8 |
| 7.5° | 3725.7 | 3690.1 | 3613.5 | 3576.5 | 3506.7 | 3454.7 | 3430.1 | 3357.5 | 3322.0 | 3239.8 | 3202.9 |
| 10° | 4417.0 | 4371.8 | 4277.3 | 4225.3 | 4158.3 | 4074.8 | 4029.6 | 3924.2 | 3883.1 | 3807.9 | 3717.5 |
| 12.5° | 5057.5 | 5012.4 | 4915.2 | 4875.5 | 4786.5 | 4697.5 | 4648.3 | 4529.2 | 4475.8 | 4355.4 | 4284.2 |
| 15° | 5650.2 | 5605.0 | 5520.2 | 5479.1 | 5390.1 | 5317.6 | 5251.9 | 5134.2 | 5071.2 | 4959.0 | 4865.9 |
| 17.5° | 6225.1 | 6177.2 | 6103.2 | 6066.3 | 5980.1 | 5906.1 | 5835.0 | 5724.1 | 5659.8 | 5547.5 | 5464.0 |
| 20° | 6758.9 | 6723.3 | 6669.9 | 6620.6 | 6534.4 | 6467.3 | 6382.5 | 6286.7 | 6193.6 | 6111.5 | 6032.1 |
| 22.5° | 7224.3 | 7210.6 | 7153.1 | 7131.2 | 7057.3 | 6999.8 | 6925.9 | 6831.4 | 6764.4 | 6660.3 | 6586.4 |
| 25° | 7625.3 | 7621.2 | 7593.8 | 7587.0 | 7535.0 | 7480.2 | 7463.8 | 7385.8 | 7324.2 | 7232.5 | 7155.8 |
| 27.5° | 7970.2 | 7974.3 | 7967.5 | 7986.6 | 7973.0 | 7948.3 | 7949.7 | 7923.7 | 7888.1 | 7811.4 | 7744.4 |
| 30° | 8353.5 | 8331.6 | 8343.9 | 8371.3 | 8379.5 | 8382.2 | 8427.4 | 8442.4 | 8439.7 | 8389.1 | 8356.2 |
| 32.5° | 8895.5 | 8843.5 | 8795.6 | 8791.5 | 8818.8 | 8829.8 | 8906.4 | 8946.1 | 8980.4 | 8992.7 | 8998.2 |
| 35° | 9586.7 | 9482.7 | 9382.8 | 9329.4 | 9282.9 | 9295.2 | 9349.9 | 9414.3 | 9489.5 | 9541.5 | 9603.1 |
| 37.5° | 10457.2 | 10329.9 | 10153.4 | 10027.4 | 9996.0 | 9927.5 | 9963.1 | 10013.8 | 10087.7 | 10168.4 | 10275.2 |
| 40° | 11512.5 | 11319.5 | 11121.1 | 10954.1 | 10863.8 | 10737.8 | 10736.5 | 10726.9 | 10772.0 | 10847.3 | 10997.9 |
| 42.5° | 12528.2 | 12357.1 | 12146.3 | 11971.1 | 11853.4 | 11685.0 | 11650.8 | 11561.8 | 11582.3 | 11648.0 | 11794.5 |
| 45° | 13479.4 | 13338.5 | 13209.8 | 13007.2 | 12907.3 | 12725.3 | 12667.8 | 12562.4 | 12503.5 | 12533.6 | 12680.1 |
| 47.5° | 14400.6 | 14310.3 | 14176.1 | 14044.7 | 13968.1 | 13805.2 | 13731.3 | 13656.0 | 13580.7 | 13578.0 | 13731.3 |
| 50° | 16196.4 | 16148.5 | 15989.7 | 15852.8 | 15889.8 | 15690.0 | 15702.3 | 15499.7 | 15591.4 | 15602.4 | 15924.0 |
| 52.5° | 17884.1 | 18051.1 | 18168.8 | 18312.5 | 18405.6 | 18423.4 | 18484.9 | 18576.7 | 18687.5 | 18906.5 | 19204.9 |
| 55° | 18850.4 | 19059.8 | 19181.6 | 19291.1 | 19471.8 | 19510.1 | 19612.8 | 19734.6 | 19831.8 | 20078.2 | 20331.4 |
| 57.5° | 19998.8 | 20387.5 | 20576.4 | 20750.2 | 20993.9 | 21086.9 | 21258.0 | 21390.8 | 21516.7 | 21808.3 | 22114.9 |
| 60° | 20706.4 | 21180.0 | 21564.6 | 21839.7 | 22145.0 | 22364.0 | 22622.7 | 22830.7 | 23126.4 | 23475.4 | 23932.6 |
| 62.5° | 20143.9 | 20839.2 | 21349.7 | 21822.0 | 22236.7 | 22655.5 | 23026.5 | 23415.2 | 23864.1 | 24392.5 | 25101.5 |
| 65° | 17903.2 | 18610.9 | 19485.5 | 19975.5 | 20524.4 | 21170.4 | 21734.4 | 22364.0 | 22975.8 | 23745.0 | 24793.5 |
| 67.5° | 14412.9 | 15235.5 | 16218.3 | 16712.4 | 17343.4 | 18064.7 | 18697.1 | 19466.3 | 20180.8 | 21112.9 | 22409.1 |
| 70° | 10388.8 | 11452.3 | 12279.0 | 12795.1 | 13531.4 | 14274.7 | 14885.1 | 15780.3 | 16371.6 | 17327.0 | 18667.0 |
| 72.5° | 6578.2 | 7417.2 | 8430.1 | 9080.3 | 9734.5 | 10487.3 | 11111.5 | 11883.5 | 12435.1 | 13305.6 | 14519.7 |
| 75° | 3536.8 | 4155.5 | 5045.2 | 5662.5 | 6363.3 | 7006.6 | 7737.5 | 8254.9 | 8662.8 | 9351.3 | 10336.8 |
| 77.5° | 1657.6 | 2034.0 | 2484.3 | 2959.2 | 3434.2 | 3929.7 | 4411.5 | 4830.3 | 5005.5 | 5399.7 | 5981.4 |
| 80° | 1006.0 | 1127.8 | 1259.2 | 1405.7 | 1604.2 | 1764.3 | 1976.5 | 2129.8 | 2140.7 | 2265.3 | 2443.2 |
| 82.5° | 672.1 | 717.2 | 756.9 | 793.9 | 844.5 | 884.2 | 929.4 | 982.8 | 1004.7 | 1033.4 | 1090.9 |
| 85° | 458.5 | 480.4 | 488.6 | 511.9 | 506.4 | 520.1 | 537.9 | 555.7 | 565.3 | 563.9 | 589.9 |
| 87.5° | 282.0 | 292.9 | 298.4 | 303.9 | 299.8 | 294.3 | 302.5 | 312.1 | 314.8 | 306.6 | 309.3 |
| 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):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2350.1 | 2350.1 | 2350.1 | 2350.1 | 2350.1 | 2350.1 | 2350.1 | 2350.1 | 2350.1 | 2350.1 | 2350.1 |
| 2.5° | 2508.9 | 2496.6 | 2484.3 | 2476.1 | 2473.3 | 2400.8 | 2369.3 | 2348.8 | 2305.0 | 2269.4 | 2240.6 |
| 5° | 2767.6 | 2741.6 | 2721.1 | 2696.4 | 2682.7 | 2499.3 | 2432.3 | 2385.7 | 2309.1 | 2263.9 | 2222.8 |
| 7.5° | 3183.7 | 3111.2 | 3068.7 | 3020.8 | 2979.8 | 2648.5 | 2537.7 | 2465.1 | 2358.4 | 2298.1 | 2251.6 |
| 10° | 3655.9 | 3580.6 | 3513.6 | 3439.7 | 3375.3 | 2847.0 | 2685.5 | 2573.2 | 2432.3 | 2354.2 | 2292.7 |
| 12.5° | 4182.9 | 4109.0 | 4024.1 | 3929.7 | 3847.6 | 3098.8 | 2874.4 | 2714.2 | 2521.2 | 2417.2 | 2331.0 |
| 15° | 4805.7 | 4675.6 | 4573.0 | 4463.5 | 4367.7 | 3400.0 | 3094.7 | 2873.0 | 2615.7 | 2474.7 | 2359.7 |
| 17.5° | 5384.7 | 5247.8 | 5108.2 | 5012.4 | 4901.5 | 3738.1 | 3316.5 | 3034.5 | 2693.7 | 2511.7 | 2365.2 |
| 20° | 5949.9 | 5800.8 | 5680.3 | 5551.6 | 5435.3 | 4088.5 | 3553.3 | 3176.9 | 2744.3 | 2513.0 | 2331.0 |
| 22.5° | 6448.2 | 6355.1 | 6221.0 | 6081.3 | 5963.6 | 4438.9 | 3775.0 | 3297.3 | 2763.5 | 2481.5 | 2270.8 |
| 25° | 7014.8 | 6916.3 | 6752.0 | 6634.3 | 6502.9 | 4796.1 | 3992.6 | 3390.4 | 2752.6 | 2422.7 | 2177.7 |
| 27.5° | 7619.8 | 7510.3 | 7342.0 | 7218.8 | 7060.0 | 5167.0 | 4192.5 | 3457.5 | 2711.5 | 2326.9 | 2053.1 |
| 30° | 8250.8 | 8150.9 | 7985.3 | 7860.7 | 7700.6 | 5559.9 | 4415.6 | 3502.6 | 2629.4 | 2194.1 | 1908.0 |
| 32.5° | 8928.3 | 8844.9 | 8680.6 | 8550.6 | 8379.5 | 5985.5 | 4623.6 | 3516.3 | 2504.8 | 2036.7 | 1754.7 |
| 35° | 9571.7 | 9514.2 | 9375.9 | 9254.1 | 9076.2 | 6387.9 | 4844.0 | 3509.5 | 2357.0 | 1864.2 | 1615.1 |
| 37.5° | 10295.7 | 10261.5 | 10193.1 | 10038.4 | 9820.8 | 6934.1 | 5108.2 | 3480.7 | 2176.3 | 1693.1 | 1508.4 |
| 40° | 11067.7 | 11070.4 | 10996.5 | 10891.1 | 10688.6 | 7596.6 | 5423.0 | 3424.6 | 1979.2 | 1542.6 | 1411.2 |
| 42.5° | 11884.8 | 11927.3 | 11891.7 | 11816.4 | 11622.0 | 8264.5 | 5799.4 | 3356.2 | 1787.6 | 1396.1 | 1315.4 |
| 45° | 12821.1 | 12873.1 | 12927.8 | 12817.0 | 12628.1 | 9146.0 | 6294.9 | 3267.2 | 1580.9 | 1274.3 | 1249.7 |
| 47.5° | 13901.0 | 13983.1 | 14032.4 | 14033.8 | 13844.9 | 10238.2 | 7099.7 | 3213.8 | 1397.5 | 1192.2 | 1218.2 |
| 50° | 16180.0 | 16206.0 | 16322.3 | 16524.9 | 16379.8 | 12766.3 | 8505.4 | 3181.0 | 1272.9 | 1141.5 | 1194.9 |
| 52.5° | 19463.6 | 19749.7 | 19950.9 | 19937.2 | 19740.1 | 14371.9 | 9280.1 | 3011.2 | 1199.0 | 1122.4 | 1184.0 |
| 55° | 20800.9 | 21158.1 | 21530.4 | 21629.0 | 21475.7 | 15742.0 | 10012.4 | 2841.5 | 1163.4 | 1136.1 | 1188.1 |
| 57.5° | 22583.0 | 23185.2 | 23695.8 | 23910.7 | 23688.9 | 17495.3 | 10976.0 | 2752.6 | 1152.5 | 1173.0 | 1214.1 |
| 60° | 24664.8 | 25409.4 | 26080.1 | 26466.1 | 26466.1 | 19510.1 | 11975.2 | 2715.6 | 1137.4 | 1227.8 | 1257.9 |
| 62.5° | 26002.1 | 27095.7 | 28108.6 | 28673.9 | 28657.5 | 20913.1 | 12418.7 | 2589.7 | 1103.2 | 1266.1 | 1318.1 |
| 65° | 26007.6 | 27307.9 | 28598.6 | 29233.7 | 29266.6 | 20740.6 | 11686.4 | 2287.2 | 1040.2 | 1271.6 | 1378.3 |
| 67.5° | 23839.5 | 25226.0 | 26730.3 | 27440.7 | 27604.9 | 19092.7 | 10116.4 | 1880.7 | 937.6 | 1216.8 | 1400.2 |
| 70° | 20134.3 | 21488.0 | 23023.7 | 23721.8 | 24013.3 | 16275.8 | 8148.2 | 1449.5 | 806.2 | 1096.4 | 1355.1 |
| 72.5° | 15862.4 | 17190.1 | 18259.1 | 18769.6 | 18996.9 | 12440.6 | 5933.5 | 1095.0 | 661.1 | 923.9 | 1233.2 |
| 75° | 11230.6 | 12227.0 | 12795.1 | 12908.7 | 12944.3 | 7499.4 | 3605.3 | 814.4 | 544.8 | 718.6 | 1041.6 |
| 77.5° | 6338.7 | 6765.7 | 6719.2 | 6769.8 | 6348.3 | 2894.9 | 1570.0 | 583.1 | 448.9 | 546.1 | 807.6 |
| 80° | 2474.7 | 2551.3 | 2396.7 | 2348.8 | 2154.4 | 1077.2 | 692.6 | 406.5 | 358.6 | 413.4 | 565.3 |
| 82.5° | 1090.9 | 1126.5 | 1093.6 | 1101.8 | 1053.9 | 555.7 | 414.7 | 294.3 | 273.7 | 302.5 | 375.0 |
| 85° | 600.9 | 611.8 | 609.1 | 626.9 | 600.9 | 221.7 | 197.1 | 180.7 | 191.6 | 205.3 | 240.9 |
| 87.5° | 292.9 | 295.6 | 286.1 | 301.1 | 291.5 | 112.2 | 97.2 | 102.7 | 112.2 | 115.0 | 115.0 |
| 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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| 2.5° | 2220.1 | 2209.2 | 2210.5 | 2207.8 | 2202.3 | 2202.3 |
| 5° | 2200.9 | 2190.0 | 2190.0 | 2187.3 | 2180.4 | 2181.8 |
| 7.5° | 2220.1 | 2202.3 | 2195.5 | 2185.9 | 2176.3 | 2176.3 |
| 10° | 2242.0 | 2210.5 | 2191.4 | 2174.9 | 2162.6 | 2162.6 |
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| 37.5° | 1476.9 | 1527.5 | 1464.6 | 1361.9 | 1330.4 | 1327.7 |
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| 42.5° | 1378.3 | 1418.0 | 1379.7 | 1363.3 | 1374.2 | 1377.0 |
| 45° | 1309.9 | 1353.7 | 1400.2 | 1389.3 | 1415.3 | 1415.3 |
| 47.5° | 1271.6 | 1337.3 | 1398.9 | 1398.9 | 1437.2 | 1450.9 |
| 50° | 1227.8 | 1323.6 | 1377.0 | 1396.1 | 1426.2 | 1415.3 |
| 52.5° | 1225.0 | 1300.3 | 1345.5 | 1379.7 | 1393.4 | 1381.1 |
| 55° | 1229.1 | 1281.1 | 1314.0 | 1352.3 | 1368.7 | 1370.1 |
| 57.5° | 1234.6 | 1270.2 | 1292.1 | 1309.9 | 1359.2 | 1359.2 |
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| 67.5° | 1351.0 | 1216.8 | 1177.1 | 1184.0 | 1327.7 | 1292.1 |
| 70° | 1393.4 | 1184.0 | 1127.8 | 1121.0 | 1275.7 | 1212.7 |
| 72.5° | 1397.5 | 1145.6 | 1059.4 | 1038.9 | 1108.7 | 1048.5 |
| 75° | 1329.1 | 1119.6 | 984.1 | 923.9 | 915.7 | 907.5 |
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