

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: P191546

Luminaire Tested: **GAN-AF-08-LED-U-T4FT-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-T4FT-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53854.3 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B4 - U0 - G5

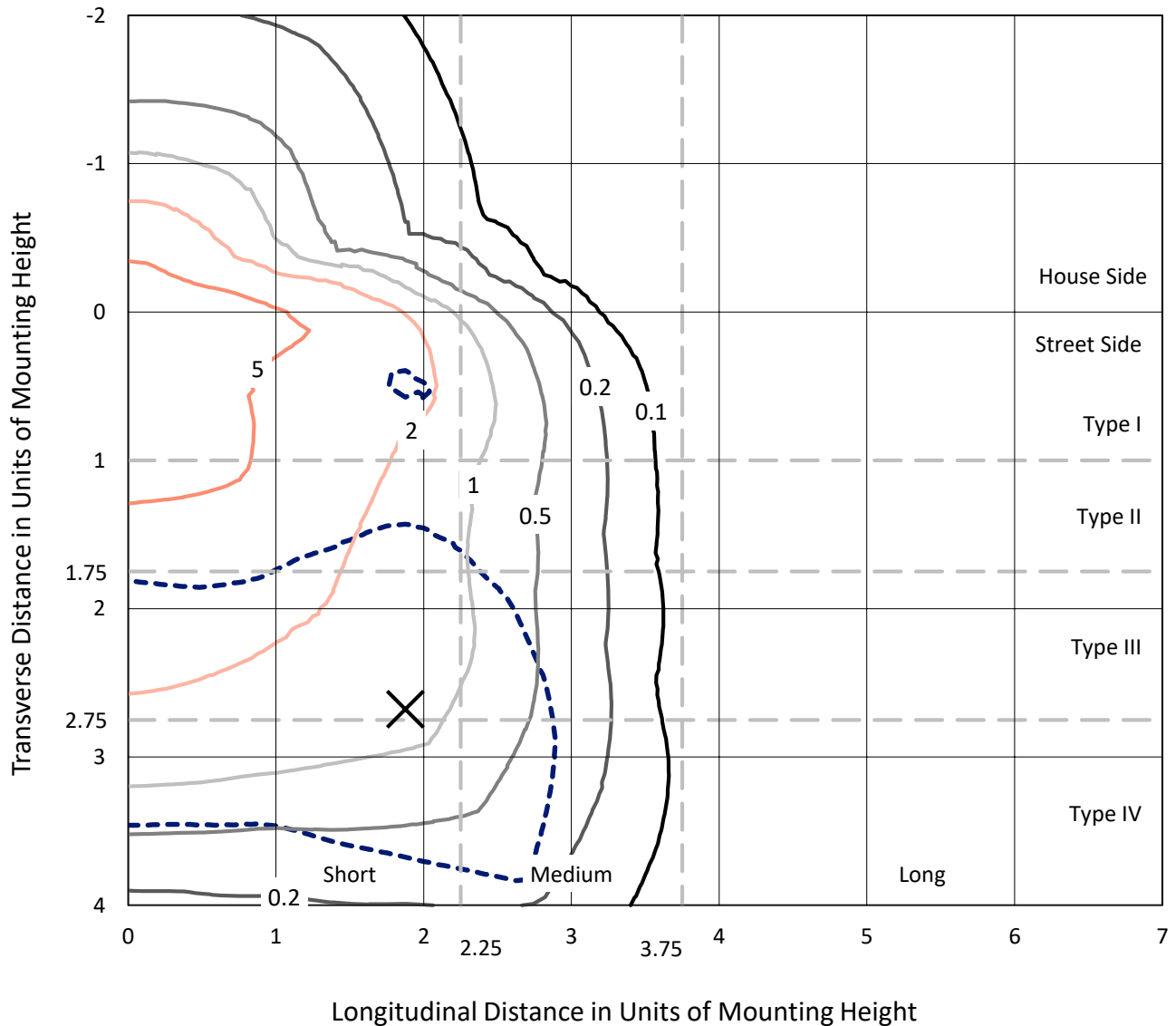
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

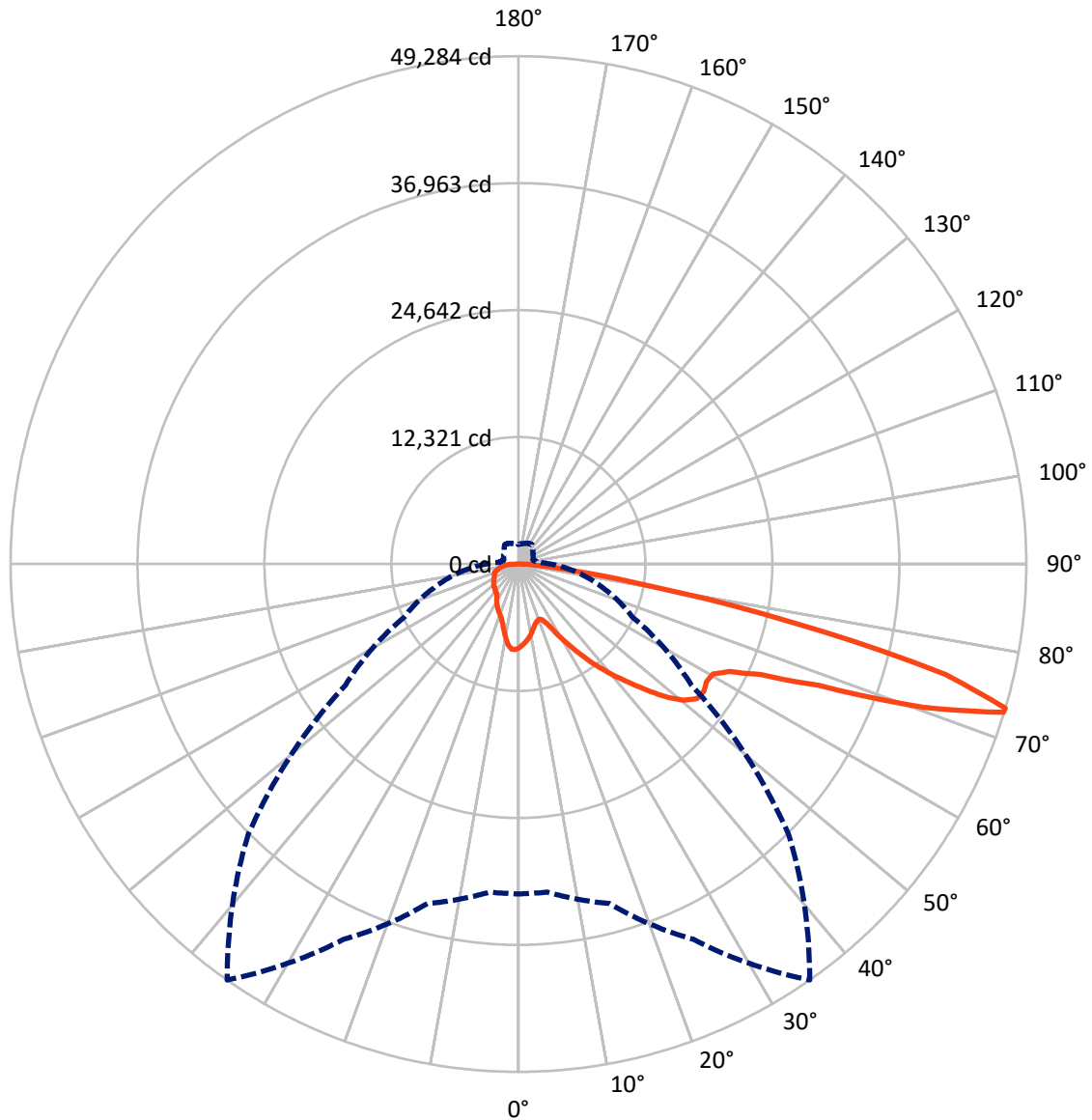
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10271.5 | 0.0 | 10271.5 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 43582.8 | 0.0 | 43582.8 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 53854.3 | 0.0 | 53854.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 735.8 | 1.4 |
| 10°-20° | 1836.5 | 3.4 |
| 20°-30° | 2969.1 | 5.5 |
| 30°-40° | 4978.7 | 9.2 |
| 40°-50° | 7674.4 | 14.3 |
| 50°-60° | 10296.1 | 19.1 |
| 60°-70° | 13716.4 | 25.5 |
| 70°-80° | 10461.5 | 19.4 |
| 80°-90° | 1185.8 | 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° | 53854.3 | 100.0 |
| 0°-180° | 53854.3 | 100.0 |



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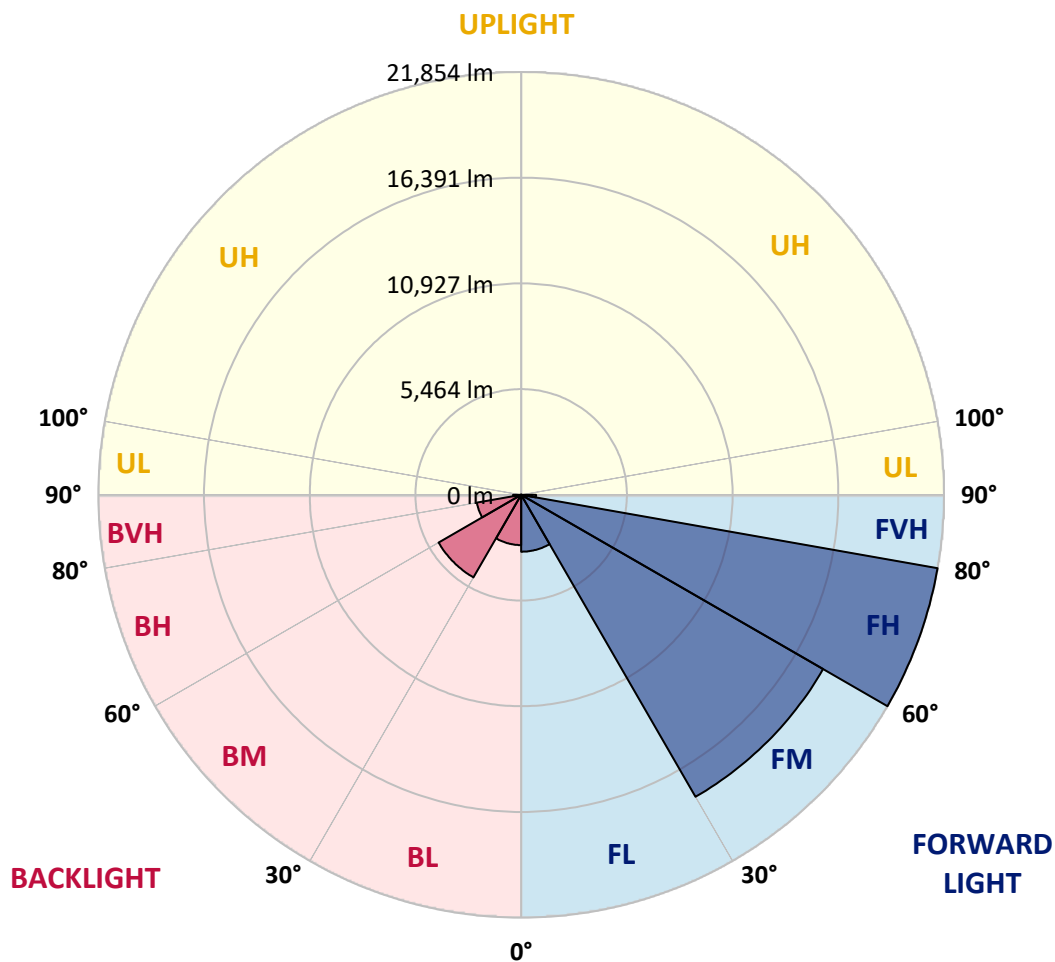
CATALOG NUMBER: GAN-AF-08-LED-U-T4FT-1200-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2942.3 | 5.5 | | | |
| FM | (30°-60°) | 18020.0 | 33.5 | | | |
| FH | (60°-80°) | 21854.1 | 40.6 | | | G5 |
| FVH | (80°-90°) | 766.5 | 1.4 | | | G5 |
| BL | (0°-30°) | 2599.2 | 4.8 | B4/5000 | | |
| BM | (30°-60°) | 4929.2 | 9.2 | B3/5000 | | |
| BH | (60°-80°) | 2323.9 | 4.3 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 419.3 | 0.8 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8128.3 | 8128.3 | 8128.3 | 8128.3 | 8128.3 | 8128.3 | 8128.3 | 8128.3 | 8128.3 | 8128.3 | 8128.3 |
| 2.5° | 7807.6 | 7823.1 | 7805.0 | 7828.3 | 7867.1 | 7908.4 | 7936.9 | 7978.3 | 8024.8 | 8089.5 | 8105.0 |
| 5° | 7440.3 | 7463.7 | 7463.7 | 7505.0 | 7580.1 | 7647.3 | 7709.4 | 7776.6 | 7874.9 | 7986.1 | 8030.0 |
| 7.5° | 7036.9 | 7049.9 | 7073.1 | 7135.2 | 7243.8 | 7339.5 | 7427.4 | 7536.1 | 7670.5 | 7817.9 | 7895.5 |
| 10° | 6550.8 | 6568.9 | 6605.0 | 6693.0 | 6840.4 | 6972.2 | 7099.0 | 7249.0 | 7419.7 | 7603.3 | 7701.6 |
| 12.5° | 6206.8 | 6201.6 | 6217.1 | 6281.7 | 6411.0 | 6571.4 | 6755.1 | 6946.4 | 7155.8 | 7370.6 | 7489.5 |
| 15° | 6090.3 | 6061.9 | 6002.5 | 5986.9 | 6056.8 | 6217.1 | 6429.1 | 6664.5 | 6915.4 | 7174.0 | 7321.4 |
| 17.5° | 6162.8 | 6113.7 | 5950.7 | 5831.7 | 5821.4 | 5942.9 | 6168.0 | 6431.8 | 6721.4 | 7036.9 | 7220.5 |
| 20° | 6618.0 | 6501.6 | 6100.8 | 5824.1 | 5728.3 | 5787.9 | 5984.4 | 6263.6 | 6605.0 | 7024.0 | 7259.4 |
| 22.5° | 7706.7 | 7536.1 | 6685.2 | 6170.5 | 5847.3 | 5774.9 | 5922.3 | 6219.7 | 6618.0 | 7184.3 | 7484.3 |
| 25° | 9292.1 | 9048.9 | 7688.6 | 7034.3 | 6367.2 | 5981.8 | 6015.4 | 6320.6 | 6801.6 | 7556.7 | 7918.8 |
| 27.5° | 10543.8 | 10386.0 | 8999.8 | 8252.5 | 7313.7 | 6540.3 | 6317.9 | 6574.0 | 7176.6 | 8167.0 | 8536.9 |
| 30° | 11288.6 | 11192.9 | 10401.5 | 9633.4 | 8521.4 | 7430.0 | 6897.2 | 7049.9 | 7763.7 | 9012.7 | 9318.0 |
| 32.5° | 12152.3 | 12095.5 | 11707.6 | 11001.5 | 9824.8 | 8598.9 | 7815.3 | 7761.0 | 8549.8 | 10029.1 | 10168.7 |
| 35° | 13047.1 | 13029.0 | 12801.5 | 12294.5 | 11223.9 | 10140.3 | 9033.5 | 8666.2 | 9405.8 | 11084.3 | 10996.3 |
| 37.5° | 13879.9 | 13848.8 | 13717.0 | 13422.1 | 12687.7 | 11795.4 | 10274.8 | 9594.7 | 10329.1 | 12092.8 | 11702.4 |
| 40° | 15413.5 | 15170.4 | 14717.8 | 14495.4 | 14166.9 | 13189.4 | 11260.1 | 10461.0 | 11286.0 | 13054.9 | 12312.6 |
| 42.5° | 17283.3 | 16887.6 | 16044.5 | 15739.3 | 15692.8 | 14288.5 | 11932.5 | 11301.5 | 12250.7 | 14009.2 | 12912.7 |
| 45° | 18754.8 | 18382.4 | 17655.7 | 17270.4 | 17441.0 | 15284.2 | 12607.5 | 12198.9 | 13243.7 | 15010.1 | 13530.8 |
| 47.5° | 20324.6 | 19740.1 | 18778.1 | 18894.4 | 19266.9 | 16225.5 | 13295.4 | 13163.5 | 14332.5 | 16129.9 | 14298.8 |
| 50° | 20381.5 | 19934.0 | 19512.6 | 20208.2 | 20787.5 | 17091.9 | 14156.6 | 14174.7 | 15664.3 | 17539.3 | 15320.4 |
| 52.5° | 19199.6 | 19103.9 | 19773.7 | 20867.7 | 21703.0 | 17777.2 | 15136.8 | 15219.6 | 17368.6 | 19158.2 | 16442.8 |
| 55° | 18785.8 | 18677.2 | 19450.5 | 20637.5 | 21827.1 | 18343.6 | 16199.7 | 16349.6 | 19429.8 | 20865.1 | 17536.8 |
| 57.5° | 19794.4 | 19553.9 | 19605.7 | 20528.9 | 21524.5 | 18964.3 | 17358.2 | 17660.8 | 21669.4 | 22357.3 | 18240.1 |
| 60° | 22613.4 | 22098.7 | 21121.1 | 21097.8 | 21687.5 | 19895.3 | 18697.9 | 19067.7 | 23996.9 | 23071.1 | 17966.0 |
| 62.5° | 26567.6 | 26052.9 | 24221.9 | 23029.7 | 22941.8 | 21431.4 | 20342.7 | 20441.0 | 25341.8 | 22103.8 | 16292.7 |
| 65° | 30847.7 | 30387.3 | 28341.7 | 26658.1 | 25846.0 | 23976.2 | 22253.9 | 21053.9 | 24902.1 | 19442.7 | 13365.3 |
| 67.5° | 36043.3 | 35549.3 | 33790.7 | 32236.5 | 31455.4 | 28083.1 | 23596.1 | 20466.8 | 22111.6 | 15061.7 | 9607.6 |
| 70° | 39676.8 | 39172.5 | 38479.4 | 39738.9 | 41650.1 | 34007.9 | 23769.4 | 18079.8 | 16515.1 | 10011.0 | 5782.6 |
| 72.5° | 34936.3 | 34701.0 | 35965.6 | 41269.8 | 49230.0 | 37602.6 | 21485.8 | 13163.5 | 9592.0 | 5314.5 | 3346.5 |
| 73° | 32008.8 | 31957.1 | 34114.0 | 40196.5 | 49284.3 | 37049.2 | 20484.9 | 12235.1 | 8226.6 | 4701.6 | 3059.4 |
| 75° | 14454.0 | 14870.4 | 19597.9 | 30702.8 | 42819.0 | 30529.6 | 14417.8 | 7018.8 | 4647.4 | 3248.2 | 2309.4 |
| 77.5° | 3473.2 | 3618.1 | 6131.8 | 14580.7 | 27040.8 | 18193.6 | 6532.7 | 3470.7 | 2971.5 | 2294.0 | 1686.1 |
| 80° | 1479.3 | 1528.4 | 2361.2 | 5387.0 | 12731.6 | 7326.6 | 3010.2 | 2325.0 | 2056.0 | 1600.8 | 1181.9 |
| 82.5° | 822.4 | 874.1 | 1339.7 | 2443.9 | 5138.7 | 2498.3 | 1836.2 | 1618.9 | 1352.5 | 964.6 | 768.1 |
| 85° | 465.5 | 494.0 | 783.6 | 1365.5 | 2177.6 | 1003.4 | 1099.2 | 1075.8 | 762.9 | 496.5 | 377.6 |
| 87.5° | 219.8 | 237.9 | 377.6 | 633.6 | 853.4 | 393.1 | 558.6 | 615.5 | 478.4 | 302.6 | 196.5 |
| 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-08-LED-U-T4FT-1200-ADJ

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8128.3 | 8128.3 | 8128.3 | 8128.3 | 8128.3 | 8128.3 | 8128.3 | 8128.3 | 8128.3 | 8128.3 |
| 2.5° | 8123.2 | 8169.7 | 8224.0 | 8252.5 | 8278.2 | 8309.3 | 8340.3 | 8340.3 | 8345.5 | 8348.1 |
| 5° | 8066.2 | 8161.9 | 8247.2 | 8283.4 | 8291.2 | 8291.2 | 8283.4 | 8242.1 | 8205.9 | 8221.4 |
| 7.5° | 7947.2 | 8086.9 | 8159.4 | 8146.4 | 8048.1 | 7934.3 | 7838.7 | 7722.3 | 7662.8 | 7652.4 |
| 10° | 7776.6 | 7936.9 | 7949.9 | 7820.6 | 7577.4 | 7334.4 | 7132.6 | 6936.0 | 6842.9 | 6819.7 |
| 12.5° | 7587.7 | 7735.1 | 7652.4 | 7386.0 | 6995.6 | 6641.2 | 6385.3 | 6186.1 | 6098.1 | 6074.9 |
| 15° | 7435.2 | 7536.1 | 7326.6 | 6907.6 | 6416.3 | 6041.2 | 5829.2 | 5681.8 | 5619.7 | 5601.6 |
| 17.5° | 7355.0 | 7375.7 | 6993.0 | 6426.6 | 5904.2 | 5591.2 | 5459.4 | 5389.5 | 5366.3 | 5353.3 |
| 20° | 7393.8 | 7249.0 | 6674.9 | 5979.1 | 5485.3 | 5265.4 | 5234.3 | 5216.2 | 5211.1 | 5203.3 |
| 22.5° | 7587.7 | 7210.2 | 6382.6 | 5555.0 | 5118.0 | 5022.3 | 5048.2 | 5045.6 | 5040.4 | 5035.3 |
| 25° | 7934.3 | 7243.8 | 6098.1 | 5151.6 | 4810.2 | 4789.6 | 4836.1 | 4836.1 | 4815.4 | 4815.4 |
| 27.5° | 8392.1 | 7313.7 | 5780.1 | 4768.9 | 4531.0 | 4533.5 | 4569.7 | 4559.4 | 4536.1 | 4520.6 |
| 30° | 8950.7 | 7357.6 | 5407.6 | 4424.9 | 4269.7 | 4259.4 | 4269.7 | 4225.8 | 4155.9 | 4150.8 |
| 32.5° | 9522.2 | 7303.3 | 4975.7 | 4119.7 | 3993.0 | 3969.8 | 3962.0 | 3899.9 | 3819.8 | 3796.5 |
| 35° | 10039.4 | 7104.2 | 4536.1 | 3876.7 | 3729.3 | 3677.5 | 3713.7 | 3693.1 | 3620.6 | 3602.5 |
| 37.5° | 10417.0 | 6734.4 | 4140.4 | 3662.0 | 3540.4 | 3527.5 | 3550.8 | 3558.5 | 3473.2 | 3455.1 |
| 40° | 10670.5 | 6232.6 | 3801.7 | 3481.0 | 3504.2 | 3455.1 | 3377.5 | 3323.2 | 3297.4 | 3289.6 |
| 42.5° | 10874.8 | 5710.2 | 3517.2 | 3395.6 | 3512.0 | 3369.8 | 3201.6 | 3113.8 | 3160.3 | 3181.0 |
| 45° | 11110.2 | 5200.8 | 3279.3 | 3289.6 | 3473.2 | 3271.5 | 3080.1 | 2994.8 | 3012.9 | 3018.0 |
| 47.5° | 11433.4 | 4580.1 | 3023.2 | 3118.9 | 3343.9 | 3204.3 | 3005.1 | 2883.6 | 2798.2 | 2759.4 |
| 50° | 11880.8 | 3845.6 | 2756.9 | 2927.5 | 3217.2 | 3155.1 | 2888.7 | 2759.4 | 2601.7 | 2565.5 |
| 52.5° | 12191.1 | 3160.3 | 2537.0 | 2767.2 | 3103.4 | 3056.9 | 2795.6 | 2627.6 | 2462.0 | 2430.9 |
| 55° | 12023.0 | 2625.0 | 2345.6 | 2588.8 | 2953.4 | 2935.3 | 2718.1 | 2493.0 | 2363.7 | 2337.9 |
| 57.5° | 11182.5 | 2286.2 | 2198.2 | 2420.6 | 2769.7 | 2831.8 | 2614.6 | 2379.3 | 2286.2 | 2268.1 |
| 60° | 9579.1 | 2074.1 | 2105.1 | 2306.9 | 2619.8 | 2728.4 | 2511.1 | 2317.2 | 2255.1 | 2242.2 |
| 62.5° | 7432.6 | 1931.8 | 2035.3 | 2224.1 | 2503.4 | 2656.0 | 2454.3 | 2309.4 | 2286.2 | 2270.6 |
| 65° | 5324.9 | 1818.1 | 1960.3 | 2141.3 | 2397.4 | 2588.8 | 2433.6 | 2299.1 | 2304.3 | 2291.3 |
| 67.5° | 3618.1 | 1717.2 | 1869.7 | 2048.3 | 2294.0 | 2529.2 | 2405.2 | 2262.9 | 2327.5 | 2312.0 |
| 70° | 2531.8 | 1618.9 | 1763.8 | 1929.3 | 2164.6 | 2446.5 | 2353.4 | 2208.6 | 2203.4 | 2141.3 |
| 72.5° | 1975.8 | 1489.6 | 1618.9 | 1763.8 | 1999.1 | 2330.1 | 2250.0 | 2087.0 | 2001.7 | 1937.1 |
| 73° | 1885.3 | 1458.6 | 1582.7 | 1727.6 | 1962.9 | 2301.6 | 2221.5 | 2053.4 | 1957.7 | 1898.2 |
| 75° | 1559.5 | 1324.1 | 1437.9 | 1567.2 | 1807.8 | 2167.2 | 2081.8 | 1900.8 | 1779.3 | 1743.1 |
| 77.5° | 1225.8 | 1132.7 | 1241.4 | 1357.8 | 1593.0 | 1970.6 | 1875.0 | 1701.7 | 1634.5 | 1603.4 |
| 80° | 907.8 | 938.8 | 1034.5 | 1137.9 | 1381.0 | 1761.2 | 1675.8 | 1502.5 | 1802.5 | 1727.6 |
| 82.5° | 638.7 | 711.2 | 799.1 | 892.2 | 1158.6 | 1556.8 | 1453.4 | 1275.0 | 1318.9 | 1096.5 |
| 85° | 377.6 | 465.5 | 548.3 | 628.4 | 835.3 | 1290.5 | 1200.0 | 1016.4 | 832.8 | 793.9 |
| 87.5° | 219.8 | 258.6 | 281.9 | 364.7 | 574.1 | 972.4 | 845.7 | 752.6 | 431.9 | 292.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)