

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: P191503

Luminaire Tested: **GAN-AF-05-LED-U-T3R-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-T3R-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34133.8 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

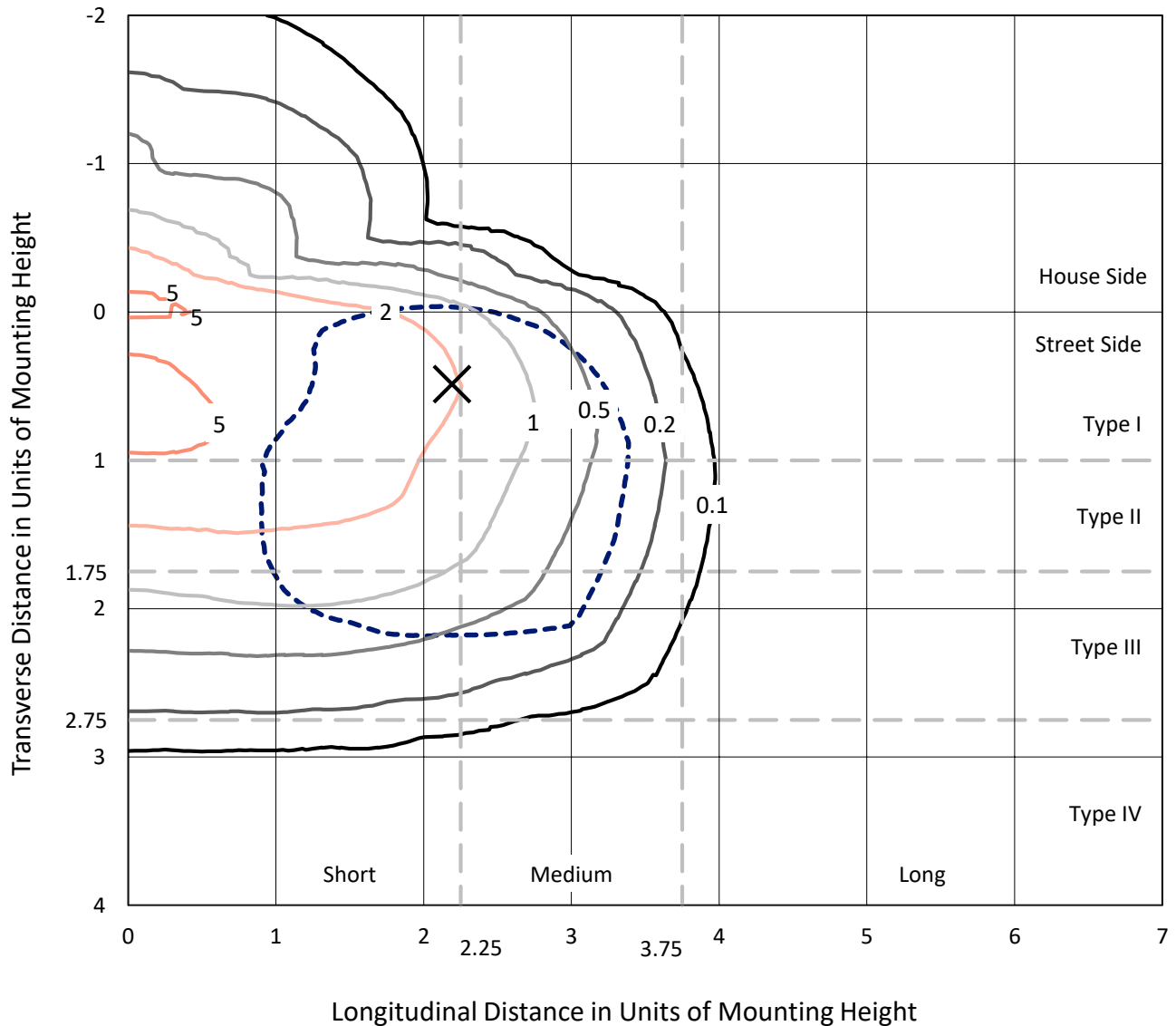
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

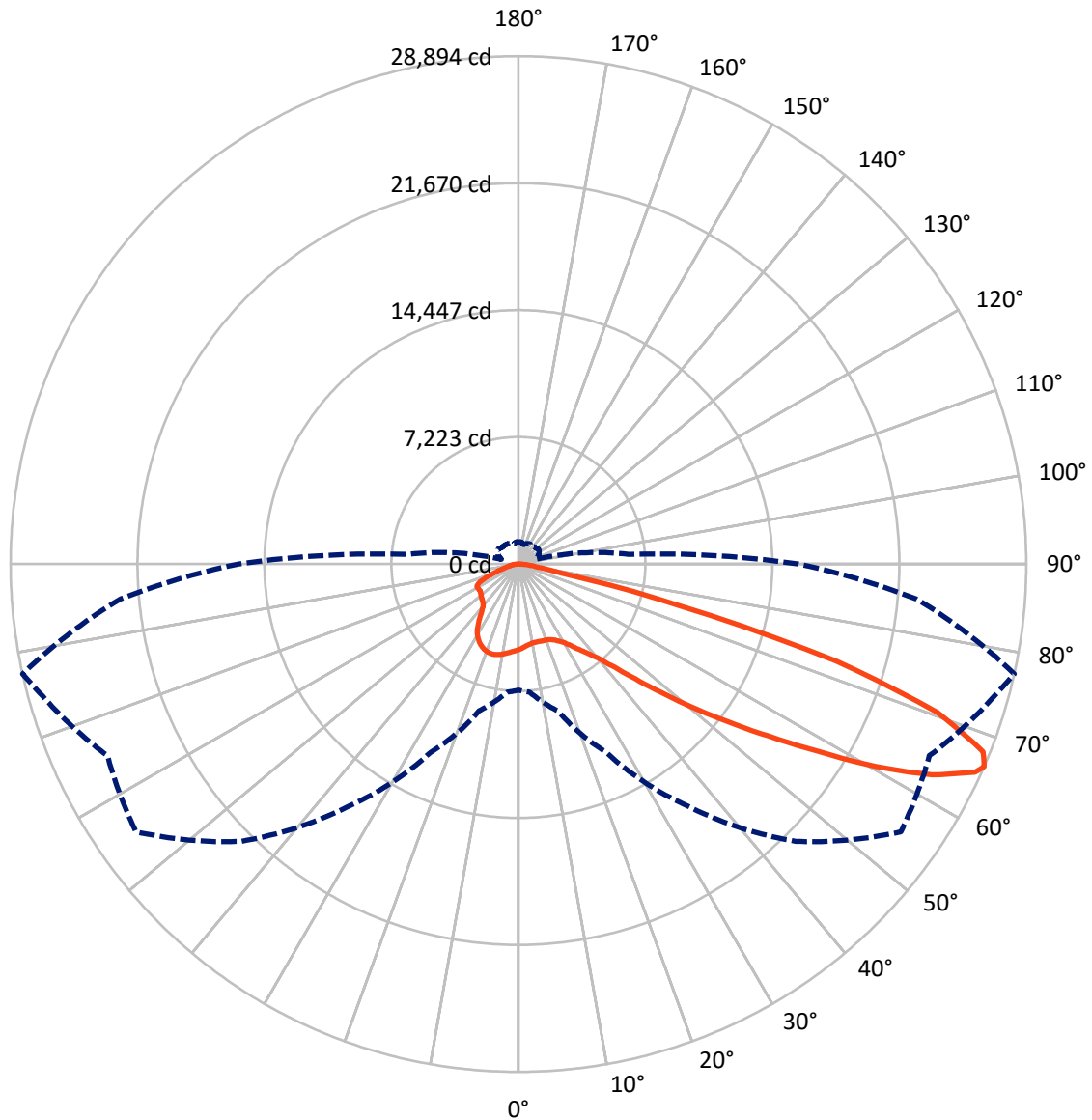
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5831.5 | 0.0 | 5831.5 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 28302.3 | 0.0 | 28302.3 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 34133.8 | 0.0 | 34133.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 434.6 | 1.3 |
| 10°-20° | 1226.0 | 3.6 |
| 20°-30° | 2092.4 | 6.1 |
| 30°-40° | 3349.5 | 9.8 |
| 40°-50° | 5174.7 | 15.2 |
| 50°-60° | 7339.5 | 21.5 |
| 60°-70° | 9818.3 | 28.8 |
| 70°-80° | 4263.9 | 12.5 |
| 80°-90° | 434.8 | 1.3 |
| 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° | 34133.8 | 100.0 |
| 0°-180° | 34133.8 | 100.0 |



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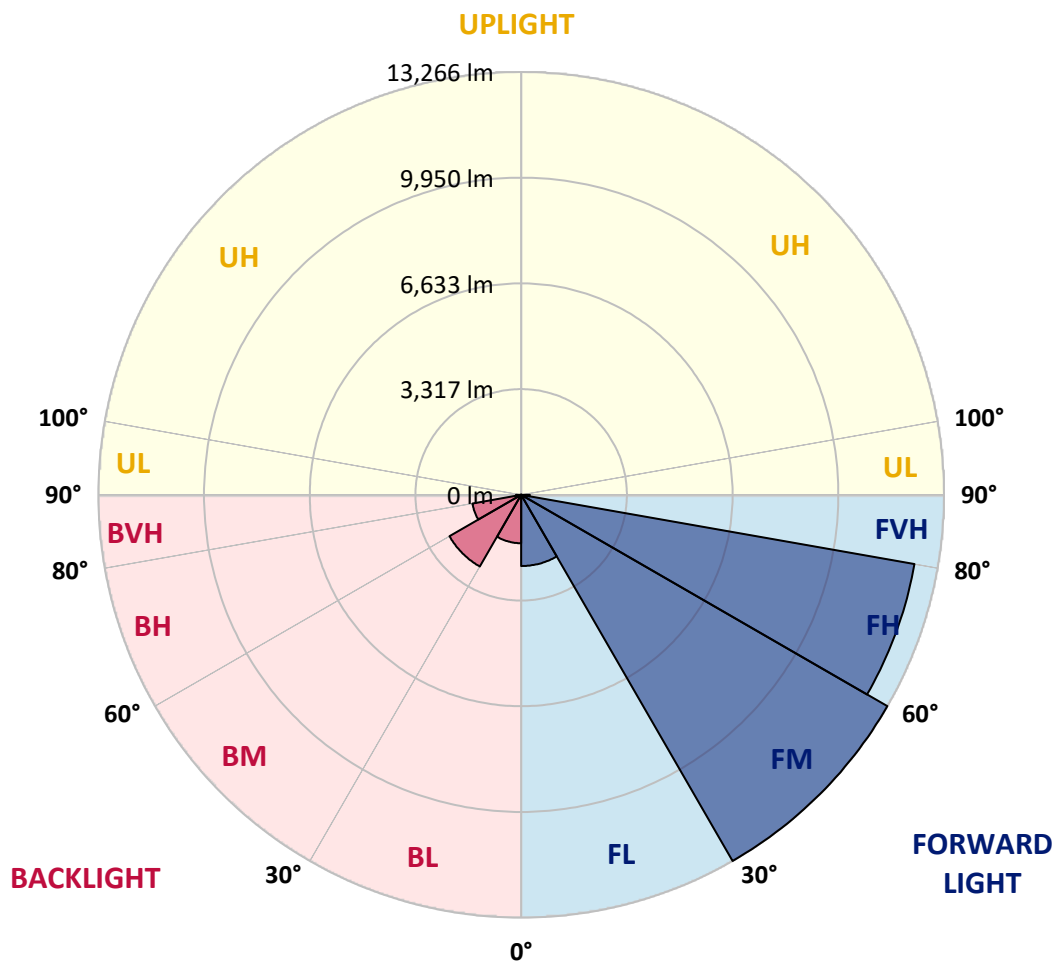
CATALOG NUMBER: GAN-AF-05-LED-U-T3R-1200-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2234.2 | 6.5 | | | |
| FM | (30°-60°) | 13266.2 | 38.9 | | | |
| FH | (60°-80°) | 12529.2 | 36.7 | | | G5 |
| FVH | (80°-90°) | 272.7 | 0.8 | | | G3/500 |
| BL | (0°-30°) | 1518.8 | 4.4 | B3/2500 | | |
| BM | (30°-60°) | 2597.6 | 7.6 | B3/5000 | | |
| BH | (60°-80°) | 1553.1 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 162.1 | 0.5 | | | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77.5° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4864.2 | 4864.2 | 4864.2 | 4864.2 | 4864.2 | 4864.2 | 4864.2 | 4864.2 | 4864.2 | 4864.2 | 4864.2 |
| 2.5° | 4302.9 | 4332.0 | 4356.2 | 4378.7 | 4424.0 | 4498.1 | 4583.6 | 4653.0 | 4752.9 | 4772.3 | 4825.6 |
| 5° | 3907.9 | 3907.9 | 3927.2 | 3961.1 | 4022.3 | 4133.6 | 4249.7 | 4404.6 | 4622.3 | 4674.0 | 4815.8 |
| 7.5° | 3715.9 | 3717.5 | 3728.9 | 3757.8 | 3811.1 | 3912.7 | 4040.0 | 4222.3 | 4517.5 | 4603.0 | 4844.9 |
| 10° | 3786.9 | 3770.7 | 3746.6 | 3732.0 | 3740.1 | 3799.8 | 3920.8 | 4123.9 | 4453.0 | 4562.7 | 4909.3 |
| 12.5° | 4183.7 | 4153.0 | 4069.1 | 3957.8 | 3851.4 | 3807.8 | 3878.8 | 4077.2 | 4425.6 | 4552.9 | 4994.9 |
| 15° | 4832.0 | 4819.1 | 4662.6 | 4432.0 | 4173.9 | 3957.8 | 3909.4 | 4059.5 | 4428.8 | 4564.2 | 5096.4 |
| 17.5° | 5644.8 | 5627.0 | 5420.6 | 5085.2 | 4664.2 | 4243.3 | 4017.5 | 4074.0 | 4440.0 | 4583.6 | 5194.9 |
| 20° | 6465.8 | 6410.9 | 6188.3 | 5788.4 | 5248.0 | 4632.0 | 4196.6 | 4111.0 | 4454.5 | 4604.6 | 5298.1 |
| 22.5° | 7078.6 | 7033.5 | 6833.5 | 6444.8 | 5822.2 | 5081.9 | 4436.8 | 4175.6 | 4501.4 | 4665.9 | 5425.5 |
| 25° | 7617.3 | 7620.5 | 7422.1 | 7046.4 | 6402.9 | 5559.3 | 4746.5 | 4348.2 | 4620.7 | 4791.7 | 5599.6 |
| 27.5° | 8283.3 | 8244.7 | 8059.2 | 7686.7 | 6977.0 | 6041.5 | 5120.7 | 4585.2 | 4798.2 | 4970.7 | 5828.7 |
| 30° | 9080.1 | 9052.7 | 8838.2 | 8415.6 | 7614.0 | 6559.3 | 5548.1 | 4861.0 | 5027.1 | 5206.1 | 6128.7 |
| 32.5° | 10017.1 | 10004.3 | 9781.7 | 9238.2 | 8349.5 | 7168.9 | 6049.6 | 5225.5 | 5369.1 | 5554.5 | 6559.3 |
| 35° | 11117.1 | 11118.7 | 10855.9 | 10202.6 | 9154.3 | 7878.6 | 6619.0 | 5694.9 | 5785.2 | 5978.6 | 7072.2 |
| 37.5° | 11794.5 | 11876.8 | 11778.4 | 11112.2 | 10065.5 | 8672.1 | 7357.7 | 6317.3 | 6259.3 | 6454.5 | 7622.1 |
| 40° | 11939.6 | 12039.6 | 12350.9 | 12012.2 | 11084.8 | 9546.2 | 8012.5 | 6915.8 | 6843.1 | 7081.9 | 8330.2 |
| 42.5° | 11736.4 | 11875.1 | 12533.1 | 12771.8 | 12167.1 | 10623.5 | 8893.0 | 7804.4 | 7712.4 | 8033.4 | 9210.8 |
| 45° | 11615.4 | 11718.7 | 12479.9 | 13167.0 | 13105.6 | 11841.3 | 10014.0 | 8920.4 | 8886.6 | 9307.5 | 10226.8 |
| 47.5° | 11405.8 | 11499.3 | 12231.5 | 13258.9 | 13657.3 | 12957.3 | 11360.6 | 10284.8 | 10351.0 | 10902.6 | 11373.6 |
| 50° | 11518.7 | 11557.4 | 11954.1 | 13025.0 | 13816.9 | 13775.0 | 12865.3 | 11865.4 | 12091.3 | 12779.9 | 12671.8 |
| 52.5° | 11502.6 | 11602.5 | 11921.9 | 12641.2 | 13837.9 | 14279.8 | 14347.5 | 13628.3 | 14104.0 | 14894.3 | 14112.1 |
| 55° | 9299.4 | 9483.4 | 11542.9 | 12544.4 | 13912.1 | 14775.0 | 15666.8 | 15486.1 | 16373.2 | 17294.1 | 15737.8 |
| 57.5° | 8880.1 | 8996.2 | 10138.2 | 12747.6 | 14305.7 | 15720.1 | 17134.5 | 17531.2 | 19015.0 | 20084.3 | 17718.3 |
| 60° | 8797.9 | 8941.4 | 10123.6 | 12996.0 | 15104.0 | 17260.2 | 19310.1 | 20006.9 | 22229.3 | 23400.2 | 20015.0 |
| 62.5° | 8541.4 | 8696.3 | 10028.4 | 12963.8 | 16237.8 | 19390.9 | 22095.5 | 22639.0 | 25277.5 | 26416.2 | 21935.9 |
| 65° | 7728.6 | 7873.8 | 9252.7 | 12442.9 | 17002.3 | 21664.9 | 25392.1 | 25051.8 | 27683.9 | 28540.2 | 22893.8 |
| 66° | 7172.1 | 7314.1 | 8641.5 | 11829.9 | 16824.8 | 22309.9 | 26559.7 | 25798.5 | 28222.5 | 28893.5 | 22706.7 |
| 67.5° | 6154.5 | 6265.8 | 7454.4 | 10457.4 | 15881.3 | 22490.6 | 27541.9 | 26359.7 | 28279.0 | 28516.1 | 21637.5 |
| 70° | 3888.4 | 3920.8 | 4844.9 | 7219.0 | 12021.9 | 19505.3 | 26046.9 | 24966.2 | 25946.8 | 25304.9 | 18139.3 |
| 72.5° | 1686.9 | 1675.7 | 2325.7 | 3672.4 | 6806.1 | 13087.9 | 21069.7 | 20600.4 | 20353.7 | 18889.2 | 12697.7 |
| 75° | 938.7 | 951.5 | 1208.0 | 1704.7 | 2766.0 | 6428.6 | 13783.0 | 13189.5 | 11136.5 | 9502.7 | 5757.7 |
| 77.5° | 753.2 | 770.9 | 1001.6 | 1209.6 | 1241.9 | 2241.8 | 6449.6 | 5248.0 | 3159.5 | 2535.4 | 1599.9 |
| 80° | 595.2 | 627.4 | 874.1 | 941.8 | 837.1 | 924.1 | 2083.8 | 1666.1 | 1249.9 | 1146.7 | 829.0 |
| 82.5° | 471.0 | 493.5 | 749.9 | 712.9 | 585.4 | 622.6 | 998.3 | 972.5 | 812.8 | 740.3 | 479.0 |
| 85° | 338.7 | 380.6 | 616.1 | 537.0 | 383.8 | 419.3 | 662.9 | 635.5 | 466.1 | 380.6 | 211.2 |
| 87.5° | 138.7 | 180.7 | 435.5 | 356.4 | 214.5 | 195.2 | 330.6 | 311.3 | 221.0 | 161.3 | 104.9 |
| 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-05-LED-U-T3R-1200-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4864.2 | 4864.2 | 4864.2 | 4864.2 | 4864.2 | 4864.2 | 4864.2 | 4864.2 | 4864.2 | 4864.2 | 4864.2 |
| 2.5° | 4859.4 | 4898.1 | 4948.1 | 4978.7 | 4994.9 | 5006.1 | 5023.9 | 5022.3 | 5027.1 | 5028.7 | 5035.2 |
| 5° | 4891.6 | 4956.2 | 5028.7 | 5048.1 | 5048.1 | 5030.4 | 5012.6 | 4983.6 | 4972.3 | 4969.1 | 4972.3 |
| 7.5° | 4975.5 | 5046.5 | 5109.3 | 5086.8 | 5038.4 | 4967.4 | 4875.5 | 4794.9 | 4751.3 | 4736.8 | 4733.6 |
| 10° | 5081.9 | 5167.4 | 5193.2 | 5107.8 | 4965.8 | 4794.9 | 4612.6 | 4480.4 | 4404.6 | 4383.7 | 4377.2 |
| 12.5° | 5211.0 | 5291.6 | 5256.1 | 5075.5 | 4812.6 | 4536.8 | 4285.2 | 4074.0 | 3915.9 | 3865.9 | 3862.7 |
| 15° | 5352.9 | 5415.8 | 5291.6 | 4975.5 | 4583.6 | 4177.2 | 3728.9 | 3364.3 | 3167.6 | 3104.7 | 3099.8 |
| 17.5° | 5485.2 | 5517.4 | 5270.7 | 4801.3 | 4246.6 | 3588.5 | 2993.4 | 2712.8 | 2645.0 | 2661.1 | 2664.4 |
| 20° | 5598.1 | 5598.1 | 5199.7 | 4551.3 | 3715.9 | 2812.7 | 2437.0 | 2432.1 | 2480.5 | 2528.8 | 2538.6 |
| 22.5° | 5722.3 | 5648.0 | 5075.5 | 4198.2 | 2964.3 | 2301.4 | 2246.6 | 2291.8 | 2346.6 | 2399.8 | 2407.9 |
| 25° | 5875.4 | 5688.4 | 4902.9 | 3662.7 | 2330.5 | 2090.2 | 2111.2 | 2148.3 | 2175.7 | 2209.6 | 2214.4 |
| 27.5° | 6046.5 | 5740.0 | 4675.5 | 2925.6 | 2022.5 | 1957.9 | 1974.1 | 1987.0 | 1983.7 | 1996.7 | 1999.9 |
| 30° | 6251.3 | 5799.6 | 4364.2 | 2287.0 | 1895.0 | 1845.1 | 1816.0 | 1804.7 | 1804.7 | 1825.7 | 1833.7 |
| 32.5° | 6525.4 | 5888.4 | 3917.5 | 1959.6 | 1833.7 | 1764.4 | 1670.9 | 1628.9 | 1645.1 | 1716.0 | 1732.2 |
| 35° | 6827.1 | 5983.5 | 3312.7 | 1848.3 | 1820.9 | 1727.4 | 1582.2 | 1504.8 | 1506.4 | 1572.5 | 1593.5 |
| 37.5° | 7156.1 | 6104.5 | 2649.9 | 1827.3 | 1849.9 | 1728.9 | 1535.3 | 1429.0 | 1385.4 | 1385.4 | 1393.5 |
| 40° | 7577.0 | 6228.6 | 2145.0 | 1841.8 | 1911.2 | 1748.3 | 1511.2 | 1369.3 | 1246.7 | 1249.9 | 1256.4 |
| 42.5° | 8125.3 | 6335.1 | 1874.0 | 1872.5 | 1985.3 | 1774.1 | 1509.6 | 1290.2 | 1183.8 | 1256.4 | 1322.5 |
| 45° | 8735.0 | 6388.3 | 1754.8 | 1899.9 | 2045.1 | 1790.3 | 1483.8 | 1277.4 | 1191.8 | 1408.0 | 1533.8 |
| 47.5° | 9436.5 | 6357.7 | 1688.6 | 1909.5 | 2059.5 | 1790.3 | 1454.7 | 1307.9 | 1248.3 | 1630.6 | 1777.3 |
| 50° | 10205.9 | 6268.9 | 1624.1 | 1890.2 | 2054.7 | 1787.0 | 1482.2 | 1338.6 | 1269.3 | 1669.3 | 1770.8 |
| 52.5° | 11110.7 | 6194.8 | 1556.3 | 1848.3 | 2020.8 | 1769.3 | 1514.5 | 1325.7 | 1203.2 | 1517.6 | 1588.6 |
| 55° | 12142.8 | 6215.8 | 1480.5 | 1788.6 | 1967.6 | 1735.3 | 1503.1 | 1274.1 | 1133.8 | 1337.0 | 1380.6 |
| 57.5° | 13462.1 | 6465.8 | 1390.3 | 1712.8 | 1895.0 | 1679.0 | 1462.8 | 1249.9 | 1112.9 | 1212.8 | 1238.6 |
| 60° | 14934.6 | 6901.2 | 1277.4 | 1637.0 | 1804.7 | 1588.6 | 1432.1 | 1261.2 | 1122.5 | 1203.2 | 1216.1 |
| 62.5° | 16015.2 | 7154.4 | 1180.6 | 1525.7 | 1682.1 | 1488.6 | 1393.5 | 1275.7 | 1148.4 | 1237.1 | 1233.8 |
| 65° | 16308.7 | 6738.3 | 1059.6 | 1362.8 | 1516.0 | 1383.7 | 1345.1 | 1291.9 | 1159.6 | 1264.5 | 1249.9 |
| 66° | 15897.5 | 6289.9 | 1006.4 | 1287.0 | 1432.1 | 1332.2 | 1320.9 | 1290.2 | 1154.8 | 1267.6 | 1243.5 |
| 67.5° | 14899.2 | 5370.7 | 914.4 | 1175.8 | 1298.3 | 1254.8 | 1282.2 | 1275.7 | 1141.8 | 1264.5 | 1230.6 |
| 70° | 12150.9 | 3664.3 | 782.3 | 979.0 | 1080.5 | 1104.8 | 1208.0 | 1224.2 | 1100.0 | 1208.0 | 1133.8 |
| 72.5° | 8489.8 | 2232.1 | 691.9 | 759.6 | 874.1 | 941.8 | 1106.4 | 1153.2 | 1043.5 | 1054.8 | 983.8 |
| 75° | 4103.0 | 1185.4 | 627.4 | 588.7 | 679.0 | 787.1 | 983.8 | 1056.4 | 954.8 | 882.2 | 856.4 |
| 77.5° | 1279.0 | 724.1 | 532.2 | 474.1 | 532.2 | 635.5 | 822.6 | 925.8 | 850.0 | 738.7 | 729.0 |
| 80° | 687.0 | 532.2 | 409.7 | 380.6 | 420.9 | 498.4 | 646.7 | 772.5 | 730.6 | 662.9 | 591.9 |
| 82.5° | 453.2 | 345.1 | 303.2 | 295.1 | 320.9 | 380.6 | 480.6 | 640.3 | 640.3 | 567.7 | 412.9 |
| 85° | 233.8 | 211.2 | 208.1 | 208.1 | 224.2 | 253.2 | 327.4 | 493.5 | 525.8 | 300.0 | 248.4 |
| 87.5° | 116.1 | 120.9 | 112.9 | 117.7 | 125.8 | 124.2 | 156.4 | 248.4 | 296.8 | 182.3 | 151.6 |
| 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)