

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: P191405

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191405
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-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 36252.4 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

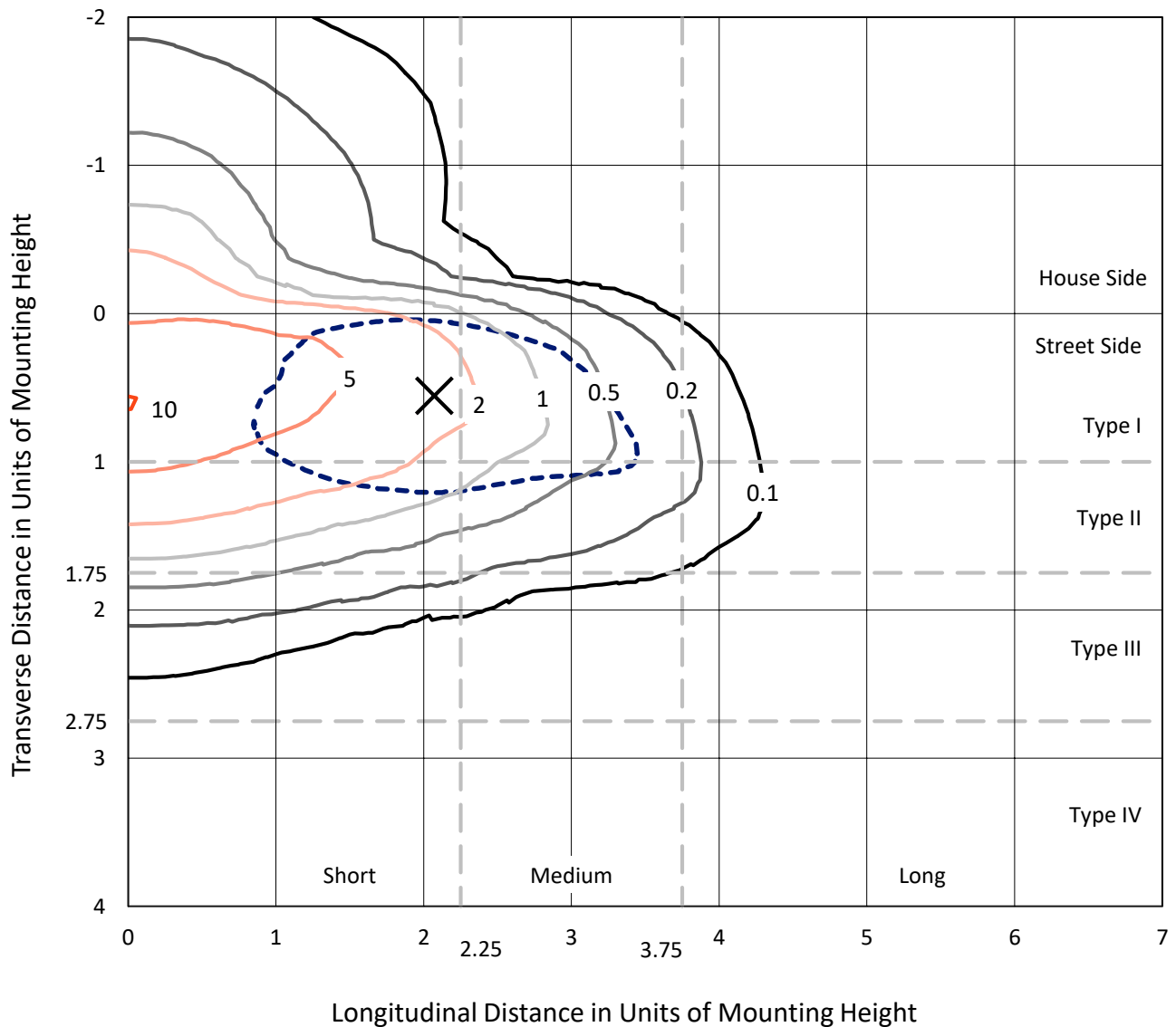
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P191405
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Iso-Footcandle Lines of Horizontal Illumination

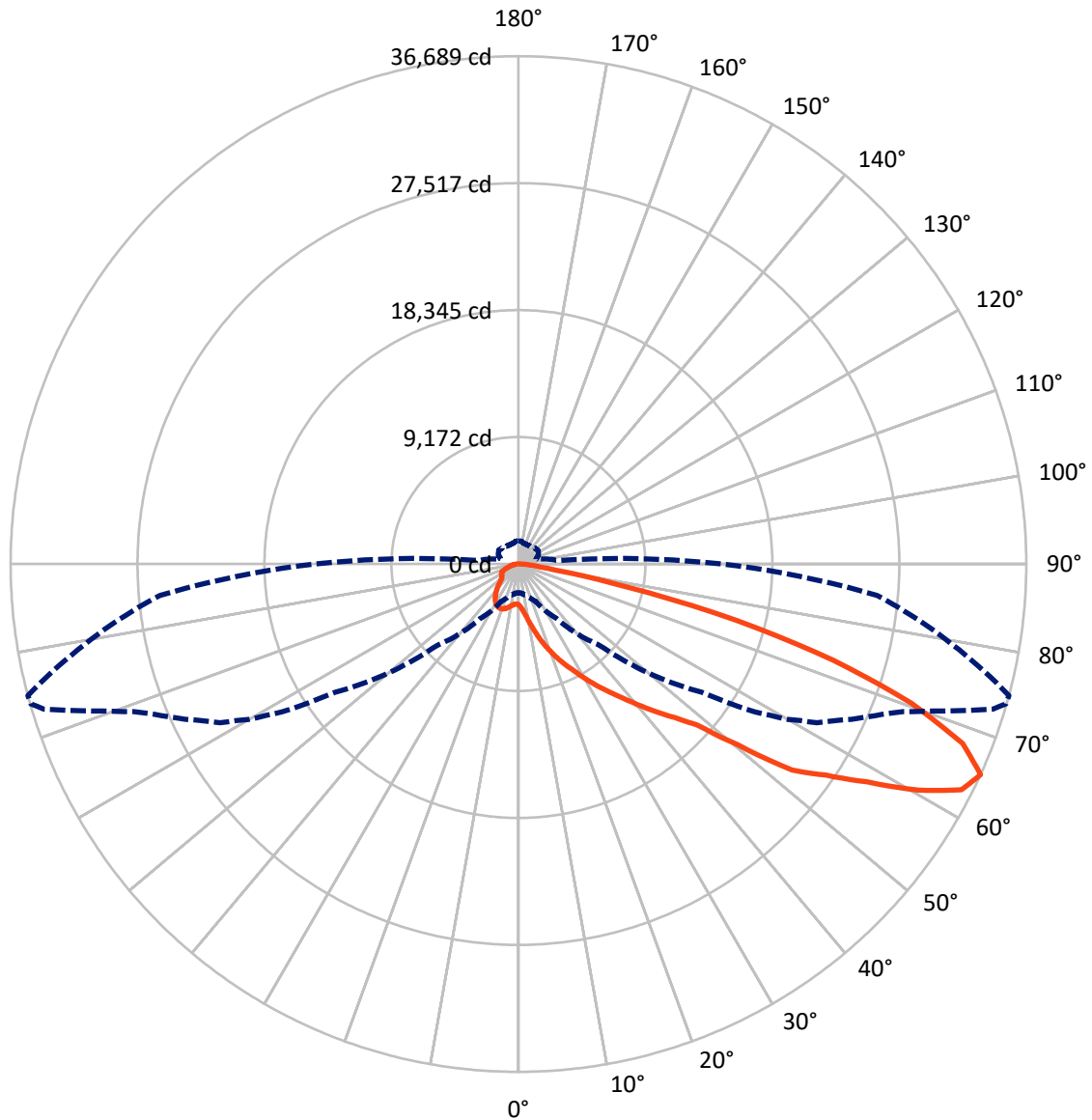
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 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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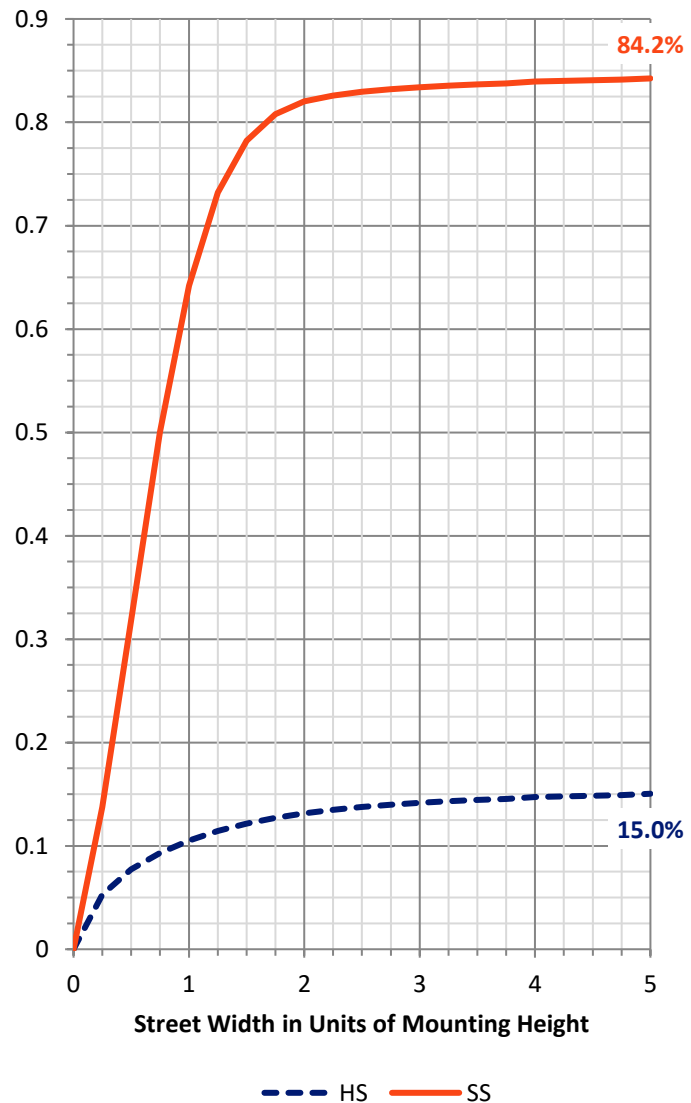
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5589.3 | 0.0 | 5589.3 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 30663.1 | 0.0 | 30663.1 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 36252.4 | 0.0 | 36252.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 364.2 | 1.0 |
| 10°-20° | 1422.9 | 3.9 |
| 20°-30° | 2919.2 | 8.1 |
| 30°-40° | 4911.5 | 13.5 |
| 40°-50° | 6786.3 | 18.7 |
| 50°-60° | 8471.3 | 23.4 |
| 60°-70° | 7623.2 | 21.0 |
| 70°-80° | 3195.6 | 8.8 |
| 80°-90° | 558.3 | 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° | 36252.4 | 100.0 |
| 0°-180° | 36252.4 | 100.0 |



REPORT NUMBER: P191405

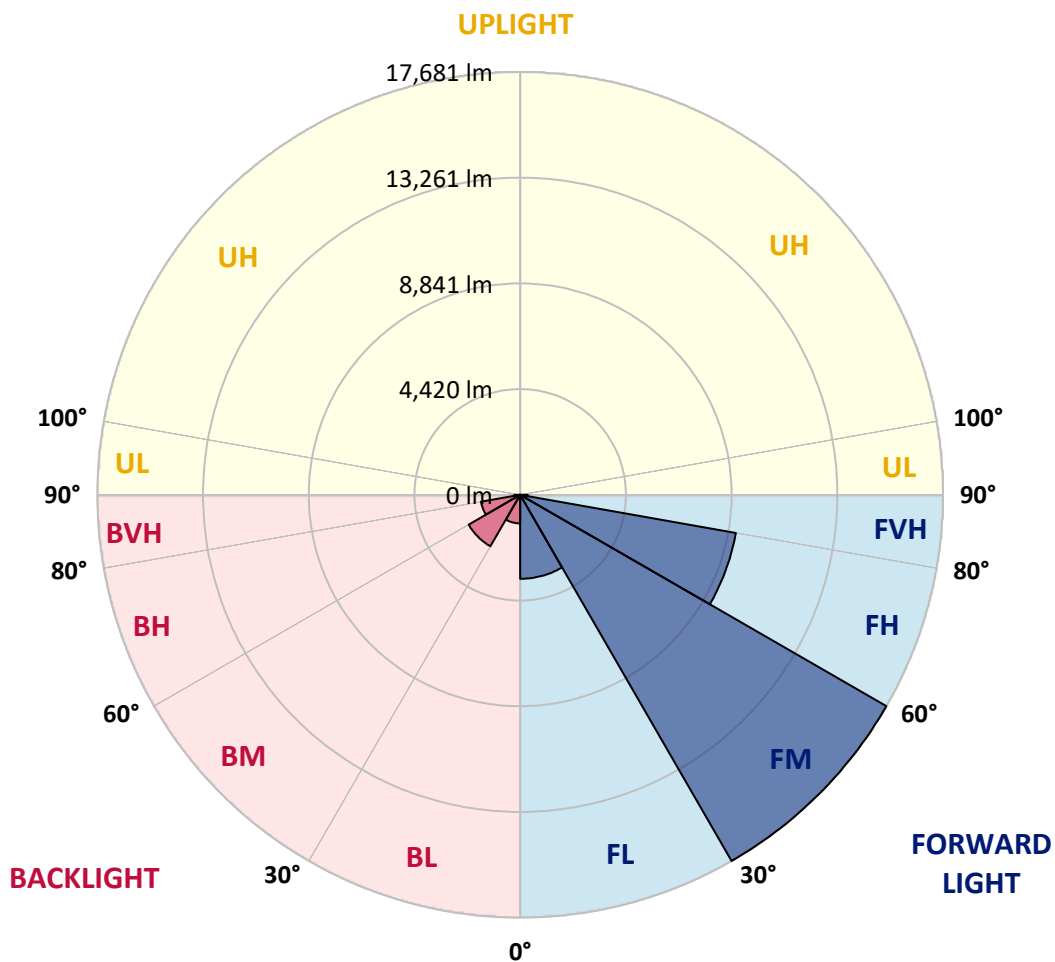
CATALOG NUMBER: GAN-AF-07-LED-U-T2R-800-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 3510.9 | 9.7 | | | |
| FM | (30°-60°) | 17681.1 | 48.8 | | | |
| FH | (60°-80°) | 9157.2 | 25.3 | | | G4/12000 |
| FVH | (80°-90°) | 313.8 | 0.9 | | | G3/500 |
| BL | (0°-30°) | 1195.3 | 3.3 | B3/2500 | | |
| BM | (30°-60°) | 2487.8 | 6.9 | B2/2500 | | |
| BH | (60°-80°) | 1661.6 | 4.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 244.5 | 0.7 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Short





REPORT NUMBER: P191405
 CATALOG NUMBER: GAN-AF-07-LED-U-T2R-800-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2946.2 | 2946.2 | 2946.2 | 2946.2 | 2946.2 | 2946.2 | 2946.2 | 2946.2 | 2946.2 | 2946.2 | 2946.2 |
| 2.5° | 3740.6 | 3699.5 | 3709.7 | 3641.1 | 3557.1 | 3447.2 | 3325.4 | 3323.7 | 3325.4 | 3313.4 | 3268.7 |
| 5° | 5187.2 | 5137.4 | 5118.5 | 4964.1 | 4737.6 | 4415.1 | 4065.0 | 4027.3 | 4011.8 | 3972.3 | 3881.4 |
| 7.5° | 6242.5 | 6214.9 | 6185.8 | 6069.2 | 5863.2 | 5502.9 | 5032.7 | 4952.1 | 4874.9 | 4855.9 | 4753.0 |
| 10° | 6923.6 | 6916.8 | 6855.0 | 6824.1 | 6695.4 | 6383.1 | 5925.0 | 5847.8 | 5763.7 | 5734.6 | 5626.4 |
| 12.5° | 7462.4 | 7460.7 | 7431.5 | 7440.1 | 7328.6 | 7102.1 | 6707.5 | 6637.1 | 6575.3 | 6486.1 | 6408.9 |
| 15° | 7834.8 | 7836.5 | 7879.4 | 7927.5 | 7910.3 | 7757.5 | 7386.9 | 7356.0 | 7302.8 | 7241.1 | 7150.1 |
| 17.5° | 8140.2 | 8148.8 | 8193.4 | 8280.9 | 8375.3 | 8363.2 | 8069.9 | 8044.2 | 7997.8 | 7913.8 | 7865.7 |
| 20° | 8830.0 | 8862.6 | 8776.8 | 8776.8 | 8787.1 | 8833.5 | 8692.7 | 8672.2 | 8606.9 | 8562.3 | 8524.6 |
| 22.5° | 9995.2 | 10032.9 | 9838.9 | 9641.6 | 9447.8 | 9307.0 | 9166.4 | 9192.0 | 9147.4 | 9116.5 | 9094.2 |
| 25° | 11508.5 | 11537.7 | 11223.7 | 10890.8 | 10496.2 | 9981.3 | 9633.0 | 9617.6 | 9593.5 | 9574.7 | 9564.4 |
| 27.5° | 12932.8 | 12944.7 | 12647.9 | 12160.5 | 11702.5 | 10962.9 | 10106.7 | 10087.7 | 10058.6 | 10022.6 | 9991.7 |
| 30° | 14151.0 | 14147.6 | 13842.2 | 13377.1 | 12886.4 | 12068.0 | 10825.6 | 10767.3 | 10681.4 | 10583.7 | 10508.2 |
| 32.5° | 15206.3 | 15201.2 | 14866.5 | 14384.3 | 13869.6 | 13162.6 | 11810.5 | 11690.4 | 11556.6 | 11366.1 | 11251.1 |
| 35° | 16036.8 | 16033.3 | 15717.6 | 15214.9 | 14624.6 | 14194.0 | 12939.6 | 12792.0 | 12622.2 | 12366.5 | 12189.8 |
| 37.5° | 16350.7 | 16350.7 | 16174.1 | 15830.9 | 15309.3 | 15014.2 | 14194.0 | 14015.4 | 13833.6 | 13543.6 | 13344.5 |
| 40° | 16167.2 | 16170.6 | 16208.3 | 16144.9 | 15890.9 | 15664.4 | 15364.1 | 15257.7 | 15101.6 | 14840.8 | 14633.2 |
| 42.5° | 15551.2 | 15570.0 | 15820.5 | 16127.7 | 16254.7 | 16218.7 | 16402.3 | 16354.2 | 16244.5 | 16043.7 | 15879.0 |
| 45° | 14770.5 | 14828.8 | 15103.4 | 15683.3 | 16356.0 | 16697.4 | 17272.2 | 17277.3 | 17256.8 | 17148.6 | 17021.7 |
| 47.5° | 13698.0 | 13780.4 | 14142.4 | 14926.6 | 16119.1 | 17162.5 | 18155.9 | 18202.3 | 18245.1 | 18174.8 | 18116.5 |
| 50° | 12273.8 | 12371.7 | 12913.8 | 13953.7 | 15637.0 | 17644.6 | 19825.5 | 20034.8 | 20230.5 | 20206.4 | 20245.8 |
| 52.5° | 10748.3 | 10863.3 | 11527.4 | 12685.6 | 14808.2 | 17756.1 | 20892.7 | 21234.2 | 21575.7 | 21855.4 | 22152.2 |
| 55° | 9372.3 | 9310.5 | 9974.5 | 11194.6 | 13445.8 | 17253.4 | 21852.0 | 22263.8 | 22644.8 | 22987.9 | 23341.4 |
| 57.5° | 7507.0 | 7608.3 | 8274.0 | 9480.3 | 11642.4 | 15834.4 | 22512.6 | 23114.9 | 23662.3 | 24230.2 | 24731.3 |
| 60° | 5487.4 | 5588.7 | 6311.1 | 7536.2 | 9684.5 | 13682.6 | 22008.1 | 22921.0 | 23797.8 | 24667.7 | 25347.3 |
| 62.5° | 3313.4 | 3388.9 | 4025.5 | 5192.3 | 7467.5 | 11131.0 | 19760.2 | 20958.0 | 22248.4 | 23288.2 | 24329.8 |
| 65° | 2062.5 | 2105.4 | 2340.5 | 2982.2 | 4795.9 | 8310.1 | 16144.9 | 17450.7 | 18840.6 | 20160.1 | 21242.8 |
| 67.5° | 1688.5 | 1703.9 | 1746.8 | 1884.1 | 2633.9 | 5418.8 | 12016.4 | 13172.9 | 14427.3 | 15703.9 | 16908.5 |
| 70° | 1518.6 | 1508.2 | 1508.2 | 1516.8 | 1688.5 | 2913.6 | 7867.4 | 8620.7 | 9665.7 | 10775.9 | 11877.5 |
| 72.5° | 1371.0 | 1360.7 | 1341.8 | 1316.1 | 1377.9 | 1777.7 | 4066.6 | 4634.7 | 5387.9 | 6374.5 | 7429.8 |
| 75° | 1232.0 | 1218.3 | 1195.9 | 1163.4 | 1206.3 | 1341.8 | 1952.7 | 2191.2 | 2558.4 | 3083.5 | 3672.0 |
| 77.5° | 1087.9 | 1070.7 | 1050.2 | 1026.1 | 1081.1 | 1043.3 | 1144.5 | 1230.3 | 1371.0 | 1539.1 | 1760.5 |
| 80° | 924.8 | 909.4 | 902.5 | 890.6 | 955.7 | 794.4 | 808.2 | 861.4 | 943.8 | 1034.7 | 1137.6 |
| 82.5° | 724.1 | 724.1 | 751.6 | 756.7 | 828.8 | 571.4 | 604.0 | 650.3 | 693.3 | 741.2 | 789.3 |
| 85° | 477.0 | 480.5 | 573.2 | 609.2 | 653.8 | 384.3 | 453.0 | 468.4 | 502.8 | 530.2 | 550.8 |
| 87.5° | 149.2 | 161.3 | 350.1 | 387.8 | 375.8 | 217.9 | 277.9 | 284.8 | 308.8 | 327.8 | 344.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P191405
 CATALOG NUMBER: GAN-AF-07-LED-U-T2R-800-ADJ

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2946.2 | 2946.2 | 2946.2 | 2946.2 | 2946.2 | 2946.2 | 2946.2 | 2946.2 | 2946.2 | 2946.2 | 2946.2 |
| 2.5° | 3268.7 | 3248.2 | 3229.4 | 3227.6 | 3213.9 | 3195.0 | 3201.8 | 3172.7 | 3174.4 | 3159.0 | 3141.8 |
| 5° | 3843.6 | 3829.9 | 3761.3 | 3742.4 | 3690.9 | 3658.3 | 3653.2 | 3584.5 | 3575.9 | 3536.4 | 3493.6 |
| 7.5° | 4670.7 | 4626.1 | 4529.9 | 4483.6 | 4396.1 | 4331.0 | 4300.1 | 4209.1 | 4164.5 | 4061.5 | 4015.2 |
| 10° | 5537.2 | 5480.6 | 5362.2 | 5296.9 | 5212.9 | 5108.2 | 5051.6 | 4919.5 | 4868.0 | 4773.6 | 4660.4 |
| 12.5° | 6340.2 | 6283.6 | 6161.7 | 6112.0 | 6000.5 | 5888.9 | 5827.2 | 5677.9 | 5611.0 | 5460.0 | 5370.8 |
| 15° | 7083.2 | 7026.6 | 6920.3 | 6868.7 | 6757.2 | 6666.3 | 6583.9 | 6436.3 | 6357.4 | 6216.7 | 6100.1 |
| 17.5° | 7803.9 | 7743.8 | 7651.2 | 7604.8 | 7496.8 | 7404.1 | 7314.9 | 7175.9 | 7095.3 | 6954.5 | 6849.9 |
| 20° | 8473.1 | 8428.5 | 8361.6 | 8299.8 | 8191.7 | 8107.6 | 8001.2 | 7881.1 | 7764.4 | 7661.5 | 7562.0 |
| 22.5° | 9056.5 | 9039.3 | 8967.3 | 8939.9 | 8847.2 | 8775.1 | 8682.4 | 8564.0 | 8480.0 | 8349.5 | 8257.0 |
| 25° | 9559.3 | 9554.2 | 9519.8 | 9511.2 | 9446.0 | 9377.4 | 9356.8 | 9259.0 | 9181.8 | 9066.8 | 8970.7 |
| 27.5° | 9991.7 | 9996.8 | 9988.2 | 10012.2 | 9995.2 | 9964.3 | 9965.9 | 9933.4 | 9888.8 | 9792.6 | 9708.5 |
| 30° | 10472.2 | 10444.6 | 10460.1 | 10494.5 | 10504.7 | 10508.2 | 10564.8 | 10583.7 | 10580.3 | 10516.8 | 10475.5 |
| 32.5° | 11151.6 | 11086.4 | 11026.4 | 11021.2 | 11055.5 | 11069.2 | 11165.3 | 11215.1 | 11258.0 | 11273.4 | 11280.3 |
| 35° | 12018.1 | 11887.7 | 11762.5 | 11695.6 | 11637.2 | 11652.6 | 11721.3 | 11802.0 | 11896.3 | 11961.6 | 12038.7 |
| 37.5° | 13109.4 | 12949.8 | 12728.6 | 12570.6 | 12531.2 | 12445.4 | 12490.0 | 12553.6 | 12646.1 | 12747.4 | 12881.2 |
| 40° | 14432.4 | 14190.5 | 13941.7 | 13732.3 | 13619.1 | 13461.2 | 13459.5 | 13447.5 | 13504.1 | 13598.5 | 13787.2 |
| 42.5° | 15705.6 | 15491.2 | 15226.9 | 15007.2 | 14859.7 | 14648.7 | 14605.7 | 14494.2 | 14520.0 | 14602.3 | 14785.9 |
| 45° | 16898.1 | 16721.5 | 16560.1 | 16306.1 | 16180.9 | 15952.7 | 15880.6 | 15748.5 | 15674.8 | 15712.5 | 15896.0 |
| 47.5° | 18052.9 | 17939.7 | 17771.5 | 17606.8 | 17510.8 | 17306.6 | 17213.9 | 17119.5 | 17025.2 | 17021.7 | 17213.9 |
| 50° | 20304.2 | 20244.2 | 20045.1 | 19873.6 | 19919.8 | 19669.3 | 19684.7 | 19430.8 | 19545.8 | 19559.5 | 19962.8 |
| 52.5° | 22419.9 | 22629.3 | 22776.8 | 22957.0 | 23073.7 | 23096.0 | 23173.2 | 23288.2 | 23427.1 | 23701.7 | 24075.8 |
| 55° | 23631.4 | 23893.9 | 24046.6 | 24183.9 | 24410.4 | 24458.4 | 24587.1 | 24739.9 | 24861.7 | 25170.5 | 25487.9 |
| 57.5° | 25071.0 | 25558.3 | 25795.1 | 26013.0 | 26318.5 | 26435.1 | 26649.6 | 26816.0 | 26973.9 | 27339.4 | 27723.8 |
| 60° | 25958.1 | 26551.8 | 27033.9 | 27378.9 | 27761.6 | 28036.0 | 28360.4 | 28621.1 | 28991.9 | 29429.4 | 30002.4 |
| 62.5° | 25252.9 | 26124.5 | 26764.6 | 27356.6 | 27876.4 | 28401.5 | 28866.5 | 29353.9 | 29916.7 | 30579.1 | 31467.8 |
| 65° | 22444.0 | 23331.1 | 24427.6 | 25041.8 | 25729.9 | 26539.8 | 27246.7 | 28036.0 | 28803.0 | 29767.4 | 31081.7 |
| 67.5° | 18068.4 | 19099.6 | 20331.7 | 20951.2 | 21742.1 | 22646.4 | 23439.2 | 24403.5 | 25299.2 | 26467.7 | 28092.7 |
| 70° | 13023.7 | 14356.9 | 15393.4 | 16040.2 | 16963.4 | 17895.1 | 18660.4 | 19782.6 | 20523.9 | 21721.5 | 23401.4 |
| 72.5° | 8246.6 | 9298.4 | 10568.2 | 11383.3 | 12203.5 | 13147.2 | 13929.6 | 14897.4 | 15589.0 | 16680.2 | 18202.3 |
| 75° | 4433.9 | 5209.5 | 6324.8 | 7098.7 | 7977.2 | 8783.7 | 9699.9 | 10348.6 | 10860.0 | 11723.0 | 12958.4 |
| 77.5° | 2077.9 | 2549.8 | 3114.4 | 3709.7 | 4305.2 | 4926.3 | 5530.4 | 6055.4 | 6275.1 | 6769.2 | 7498.4 |
| 80° | 1261.2 | 1413.9 | 1578.6 | 1762.2 | 2011.0 | 2211.8 | 2477.8 | 2669.9 | 2683.7 | 2839.8 | 3062.9 |
| 82.5° | 842.5 | 899.2 | 948.9 | 995.2 | 1058.8 | 1108.5 | 1165.1 | 1232.0 | 1259.5 | 1295.5 | 1367.6 |
| 85° | 574.8 | 602.3 | 612.5 | 641.7 | 634.8 | 652.0 | 674.3 | 696.6 | 708.7 | 707.0 | 739.6 |
| 87.5° | 353.4 | 367.2 | 374.1 | 380.9 | 375.8 | 368.9 | 379.2 | 391.2 | 394.7 | 384.3 | 387.8 |
| 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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CANDELA DISTRIBUTION (continued):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2946.2 | 2946.2 | 2946.2 | 2946.2 | 2946.2 | 2946.2 | 2946.2 | 2946.2 | 2946.2 | 2946.2 | 2946.2 |
| 2.5° | 3145.3 | 3129.8 | 3114.4 | 3104.0 | 3100.7 | 3009.7 | 2970.2 | 2944.5 | 2889.5 | 2844.9 | 2808.9 |
| 5° | 3469.5 | 3436.9 | 3411.2 | 3380.3 | 3363.2 | 3133.2 | 3049.1 | 2990.8 | 2894.7 | 2838.1 | 2786.6 |
| 7.5° | 3991.1 | 3900.2 | 3847.0 | 3787.0 | 3735.5 | 3320.3 | 3181.3 | 3090.3 | 2956.5 | 2881.0 | 2822.6 |
| 10° | 4583.1 | 4488.8 | 4404.7 | 4312.0 | 4231.4 | 3569.1 | 3366.6 | 3225.9 | 3049.1 | 2951.3 | 2874.1 |
| 12.5° | 5243.7 | 5151.2 | 5044.8 | 4926.3 | 4823.4 | 3884.8 | 3603.3 | 3402.6 | 3160.7 | 3030.3 | 2922.2 |
| 15° | 6024.6 | 5861.5 | 5732.8 | 5595.5 | 5475.4 | 4262.3 | 3879.6 | 3601.7 | 3279.1 | 3102.3 | 2958.2 |
| 17.5° | 6750.4 | 6578.8 | 6403.8 | 6283.6 | 6144.7 | 4686.1 | 4157.6 | 3804.1 | 3376.9 | 3148.6 | 2965.0 |
| 20° | 7459.1 | 7272.0 | 7121.0 | 6959.6 | 6813.9 | 5125.4 | 4454.4 | 3982.6 | 3440.4 | 3150.4 | 2922.2 |
| 22.5° | 8083.6 | 7966.9 | 7798.8 | 7623.7 | 7476.1 | 5564.6 | 4732.5 | 4133.6 | 3464.4 | 3110.9 | 2846.7 |
| 25° | 8794.0 | 8670.4 | 8464.5 | 8317.0 | 8152.2 | 6012.5 | 5005.3 | 4250.3 | 3450.7 | 3037.1 | 2729.9 |
| 27.5° | 9552.4 | 9415.1 | 9204.1 | 9049.6 | 8850.6 | 6477.5 | 5255.8 | 4334.3 | 3399.2 | 2917.0 | 2573.8 |
| 30° | 10343.5 | 10218.2 | 10010.6 | 9854.4 | 9653.7 | 6970.0 | 5535.5 | 4391.0 | 3296.3 | 2750.6 | 2392.0 |
| 32.5° | 11192.8 | 11088.2 | 10882.3 | 10719.2 | 10504.7 | 7503.7 | 5796.3 | 4408.1 | 3140.0 | 2553.3 | 2199.8 |
| 35° | 11999.3 | 11927.2 | 11753.9 | 11601.2 | 11378.1 | 8008.1 | 6072.5 | 4399.6 | 2954.8 | 2337.0 | 2024.7 |
| 37.5° | 12907.0 | 12864.1 | 12778.3 | 12584.4 | 12311.5 | 8692.7 | 6403.8 | 4363.5 | 2728.3 | 2122.5 | 1890.9 |
| 40° | 13874.8 | 13878.2 | 13785.5 | 13653.4 | 13399.4 | 9523.3 | 6798.4 | 4293.2 | 2481.2 | 1933.8 | 1769.1 |
| 42.5° | 14899.2 | 14952.4 | 14907.8 | 14813.4 | 14569.7 | 10360.5 | 7270.2 | 4207.4 | 2241.0 | 1750.2 | 1649.0 |
| 45° | 16072.8 | 16138.1 | 16206.6 | 16067.7 | 15830.9 | 11465.6 | 7891.5 | 4095.9 | 1981.9 | 1597.5 | 1566.6 |
| 47.5° | 17426.7 | 17529.6 | 17591.4 | 17593.1 | 17356.3 | 12835.0 | 8900.4 | 4028.9 | 1751.9 | 1494.5 | 1527.2 |
| 50° | 20283.7 | 20316.2 | 20462.1 | 20716.1 | 20534.2 | 16004.2 | 10662.6 | 3987.8 | 1595.8 | 1431.1 | 1498.0 |
| 52.5° | 24400.0 | 24758.7 | 25010.9 | 24993.8 | 24746.7 | 18016.9 | 11633.8 | 3775.0 | 1503.1 | 1407.1 | 1484.3 |
| 55° | 26076.6 | 26524.4 | 26991.1 | 27114.6 | 26922.4 | 19734.6 | 12551.8 | 3562.2 | 1458.5 | 1424.2 | 1489.4 |
| 57.5° | 28310.6 | 29065.6 | 29705.7 | 29975.0 | 29697.1 | 21932.6 | 13759.8 | 3450.7 | 1444.8 | 1470.5 | 1522.0 |
| 60° | 30920.5 | 31854.0 | 32694.7 | 33178.6 | 33178.6 | 24458.4 | 15012.4 | 3404.4 | 1425.9 | 1539.1 | 1576.9 |
| 62.5° | 32596.9 | 33967.9 | 35237.7 | 35946.4 | 35925.7 | 26217.2 | 15568.4 | 3246.4 | 1383.0 | 1587.2 | 1652.4 |
| 65° | 32603.8 | 34233.9 | 35852.0 | 36648.1 | 36689.4 | 26001.0 | 14650.3 | 2867.2 | 1304.1 | 1594.1 | 1727.9 |
| 67.5° | 29885.8 | 31624.0 | 33509.8 | 34400.3 | 34606.2 | 23935.1 | 12682.2 | 2357.6 | 1175.4 | 1525.4 | 1755.4 |
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| 72.5° | 19885.6 | 21550.0 | 22890.1 | 23530.1 | 23814.9 | 15595.8 | 7438.4 | 1372.7 | 828.8 | 1158.2 | 1546.0 |
| 75° | 14079.0 | 15328.1 | 16040.2 | 16182.7 | 16227.3 | 9401.4 | 4519.7 | 1021.0 | 682.9 | 900.8 | 1305.8 |
| 77.5° | 7946.3 | 8481.7 | 8423.4 | 8486.8 | 7958.4 | 3629.1 | 1968.2 | 731.0 | 562.8 | 684.7 | 1012.4 |
| 80° | 3102.3 | 3198.5 | 3004.5 | 2944.5 | 2700.8 | 1350.4 | 868.3 | 509.6 | 449.6 | 518.2 | 708.7 |
| 82.5° | 1367.6 | 1412.2 | 1371.0 | 1381.3 | 1321.2 | 696.6 | 520.0 | 368.9 | 343.2 | 379.2 | 470.1 |
| 85° | 753.3 | 767.0 | 763.5 | 785.8 | 753.3 | 277.9 | 247.0 | 226.5 | 240.2 | 257.4 | 302.0 |
| 87.5° | 367.2 | 370.6 | 358.6 | 377.5 | 365.5 | 140.7 | 121.8 | 128.7 | 140.7 | 144.1 | 144.1 |
| 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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