

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: P268790

Luminaire Tested: **GAN-AF-08-LED-U-T3R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268790
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-08-LED-U-T3R-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27921.2 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

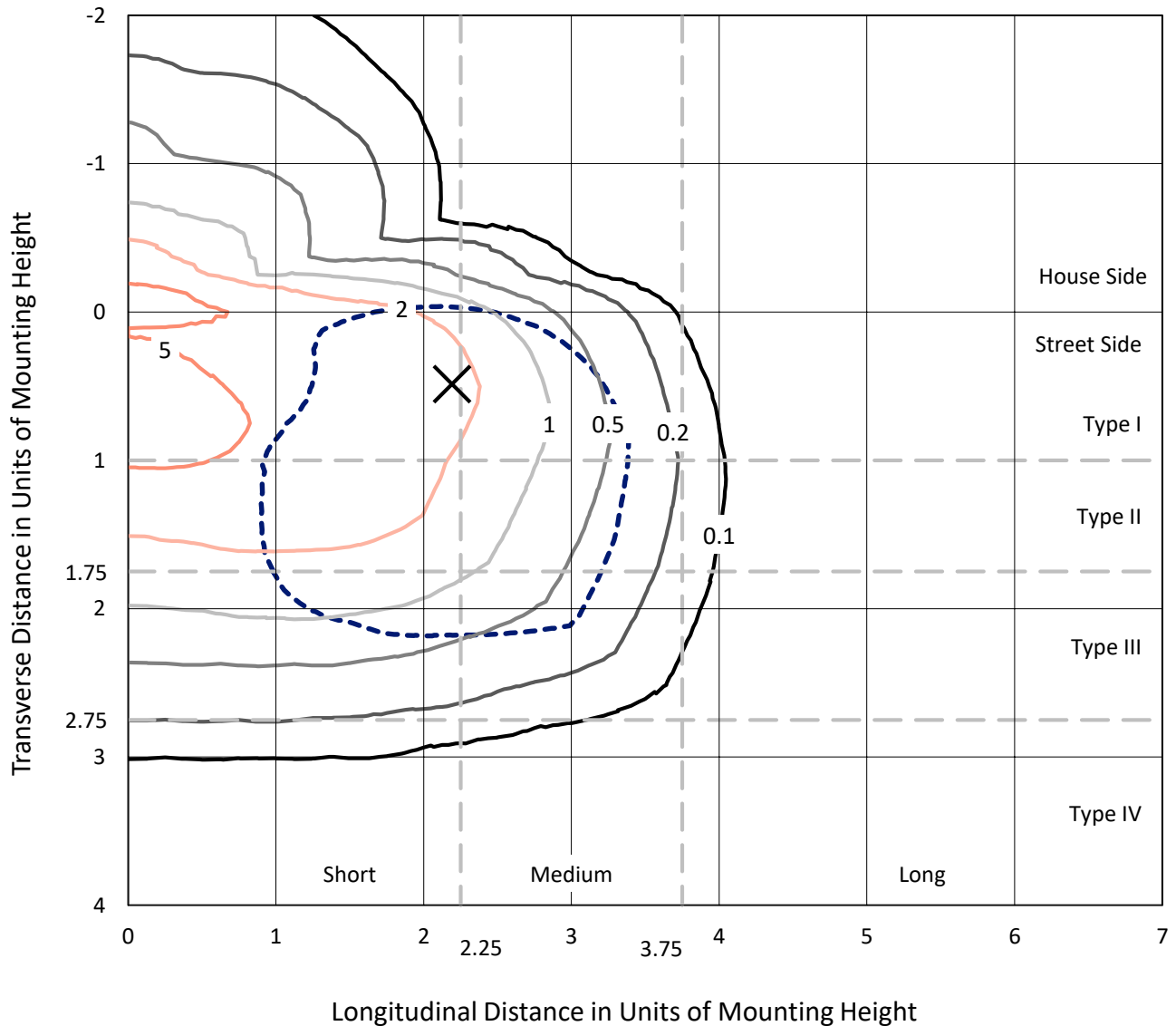
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

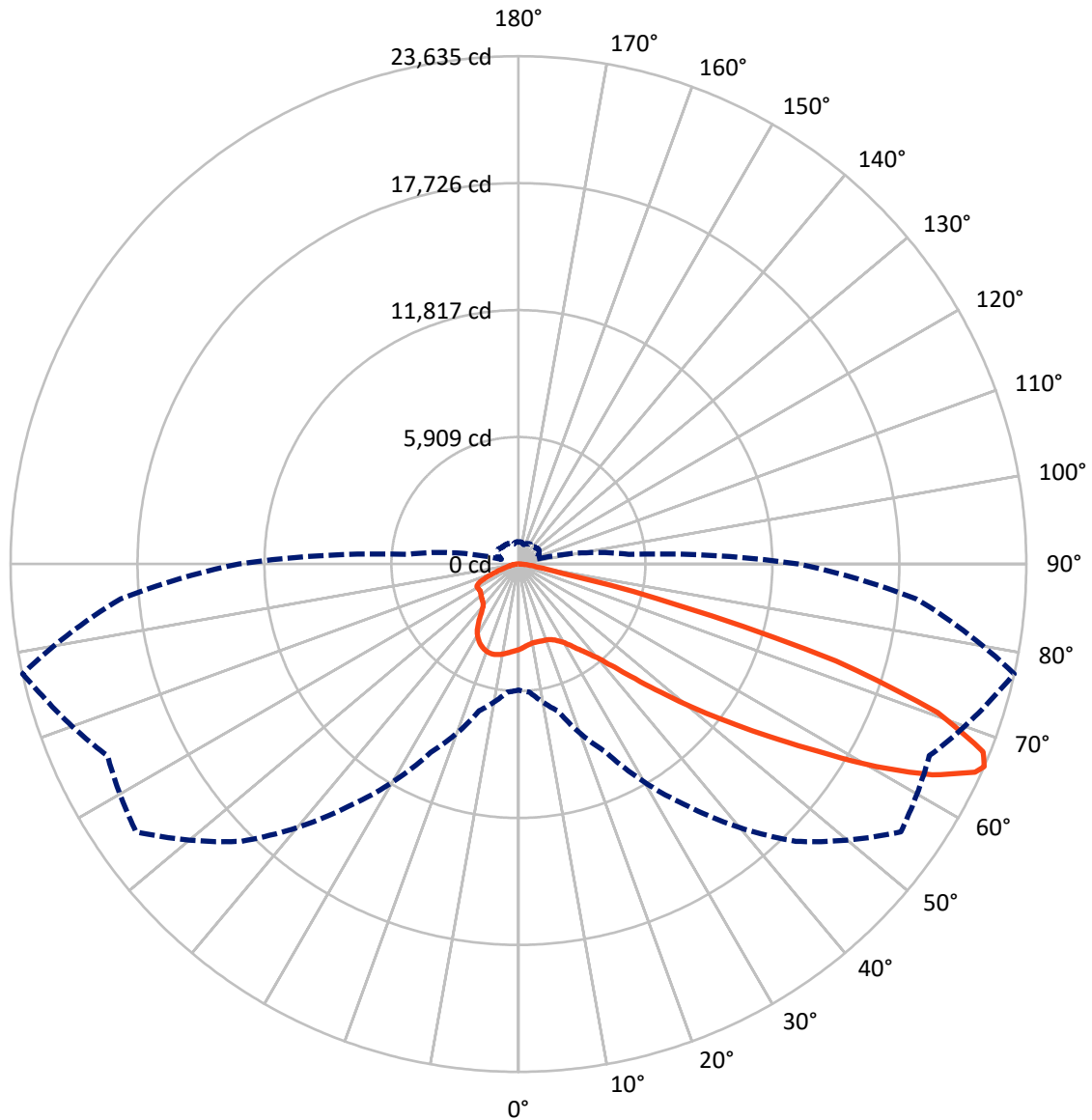


Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P268790

CATALOG NUMBER: GAN-AF-08-LED-U-T3R-7027-600

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 | 4770.2 | 0.0 | 4770.2 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 23151.0 | 0.0 | 23151.0 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 27921.2 | 0.0 | 27921.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 355.5 | 1.3 |
| 10°-20° | 1002.9 | 3.6 |
| 20°-30° | 1711.6 | 6.1 |
| 30°-40° | 2739.9 | 9.8 |
| 40°-50° | 4232.9 | 15.2 |
| 50°-60° | 6003.7 | 21.5 |
| 60°-70° | 8031.3 | 28.8 |
| 70°-80° | 3487.8 | 12.5 |
| 80°-90° | 355.6 | 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° | 27921.2 | 100.0 |
| 0°-180° | 27921.2 | 100.0 |



REPORT NUMBER: P268790

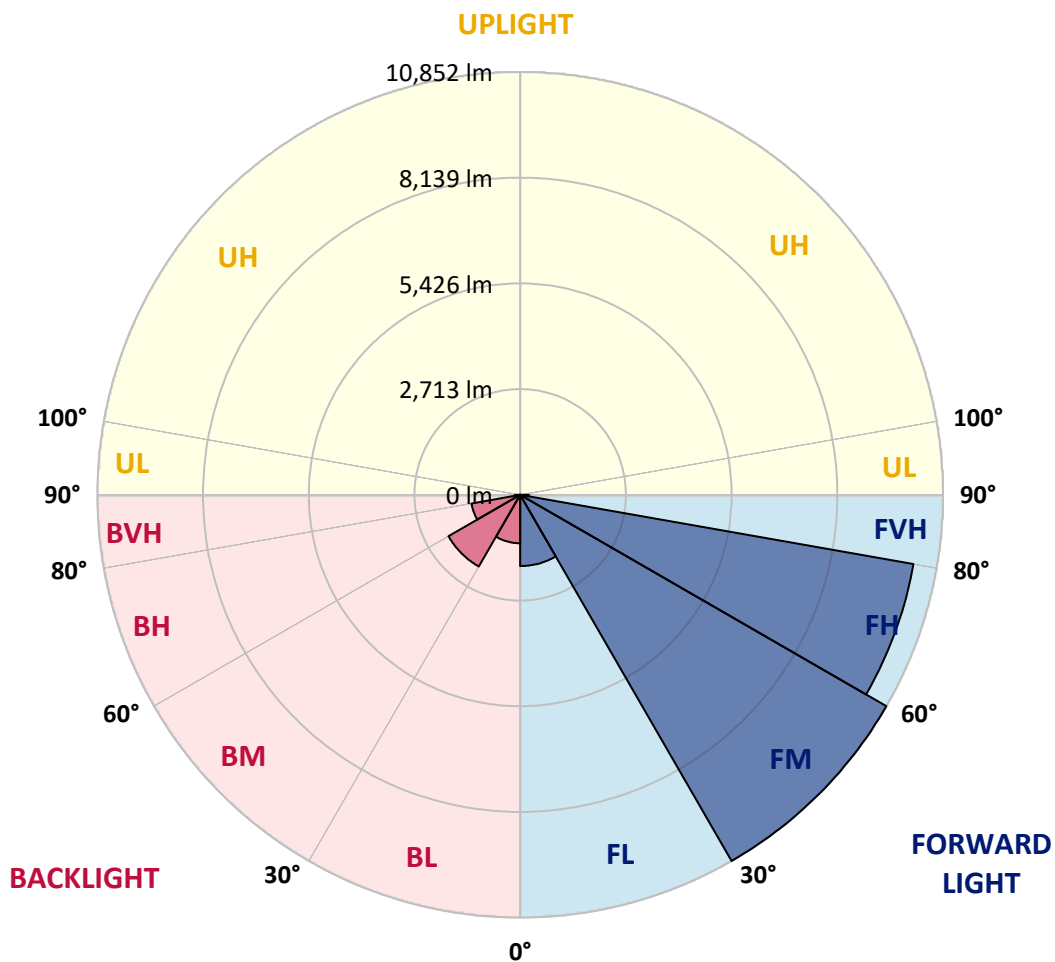
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1827.6 | 6.5 | | | |
| FM | (30°-60°) | 10851.6 | 38.9 | | | |
| FH | (60°-80°) | 10248.8 | 36.7 | | | G4/12000 |
| FVH | (80°-90°) | 223.0 | 0.8 | | | G2/225 |
| BL | (0°-30°) | 1242.3 | 4.4 | B3/2500 | | |
| BM | (30°-60°) | 2124.8 | 7.6 | B2/2500 | | |
| BH | (60°-80°) | 1270.4 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 132.6 | 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-G4

Type III Short





REPORT NUMBER: P268790

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77.5° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3979.0 | 3979.0 | 3979.0 | 3979.0 | 3979.0 | 3979.0 | 3979.0 | 3979.0 | 3979.0 | 3979.0 | 3979.0 |
| 2.5° | 3519.7 | 3543.5 | 3563.3 | 3581.8 | 3618.7 | 3679.5 | 3749.3 | 3806.1 | 3887.9 | 3903.8 | 3947.2 |
| 5° | 3196.6 | 3196.6 | 3212.3 | 3240.0 | 3290.2 | 3381.3 | 3476.4 | 3602.9 | 3781.1 | 3823.2 | 3939.3 |
| 7.5° | 3039.5 | 3040.9 | 3050.1 | 3073.9 | 3117.4 | 3200.5 | 3304.8 | 3453.9 | 3695.3 | 3765.2 | 3963.1 |
| 10° | 3097.6 | 3084.4 | 3064.7 | 3052.8 | 3059.4 | 3108.1 | 3207.0 | 3373.3 | 3642.4 | 3732.2 | 4015.9 |
| 12.5° | 3422.2 | 3397.1 | 3328.5 | 3237.5 | 3150.4 | 3114.9 | 3172.9 | 3335.0 | 3620.1 | 3724.4 | 4085.9 |
| 15° | 3952.5 | 3941.9 | 3814.1 | 3625.3 | 3414.3 | 3237.5 | 3197.8 | 3320.6 | 3622.8 | 3733.5 | 4168.9 |
| 17.5° | 4617.4 | 4602.9 | 4434.0 | 4159.6 | 3815.3 | 3471.1 | 3286.3 | 3332.4 | 3631.9 | 3749.3 | 4249.3 |
| 20° | 5289.0 | 5244.0 | 5061.9 | 4734.8 | 4292.9 | 3789.0 | 3432.8 | 3362.9 | 3643.9 | 3766.6 | 4333.9 |
| 22.5° | 5790.2 | 5753.4 | 5589.8 | 5271.8 | 4762.5 | 4156.9 | 3629.3 | 3415.5 | 3682.1 | 3816.5 | 4437.9 |
| 25° | 6230.9 | 6233.5 | 6071.3 | 5763.9 | 5237.5 | 4547.5 | 3882.7 | 3556.7 | 3779.7 | 3919.6 | 4580.5 |
| 27.5° | 6775.7 | 6744.0 | 6592.3 | 6287.5 | 5707.1 | 4941.9 | 4188.6 | 3750.7 | 3924.9 | 4066.0 | 4767.8 |
| 30° | 7427.5 | 7405.0 | 7229.6 | 6883.9 | 6228.3 | 5365.4 | 4538.2 | 3976.3 | 4112.1 | 4258.5 | 5013.3 |
| 32.5° | 8194.0 | 8183.4 | 8001.4 | 7556.7 | 6829.9 | 5864.1 | 4948.6 | 4274.4 | 4391.9 | 4543.5 | 5365.4 |
| 35° | 9093.7 | 9095.0 | 8879.9 | 8345.7 | 7488.1 | 6444.6 | 5414.3 | 4658.3 | 4732.2 | 4890.6 | 5784.9 |
| 37.5° | 9647.7 | 9715.1 | 9634.6 | 9089.7 | 8233.5 | 7093.6 | 6018.5 | 5167.6 | 5120.1 | 5279.7 | 6234.9 |
| 40° | 9766.6 | 9848.3 | 10102.9 | 9825.9 | 9067.3 | 7808.7 | 6554.2 | 5656.9 | 5597.7 | 5792.9 | 6814.1 |
| 42.5° | 9600.2 | 9713.7 | 10251.9 | 10447.3 | 9952.5 | 8690.1 | 7274.5 | 6384.0 | 6308.7 | 6571.2 | 7534.4 |
| 45° | 9501.4 | 9585.8 | 10208.5 | 10770.5 | 10720.4 | 9686.1 | 8191.4 | 7296.8 | 7269.2 | 7613.5 | 8365.5 |
| 47.5° | 9329.8 | 9406.3 | 10005.3 | 10845.6 | 11171.5 | 10599.0 | 9292.8 | 8412.9 | 8467.1 | 8918.3 | 9303.4 |
| 50° | 9422.2 | 9453.9 | 9778.4 | 10654.3 | 11302.1 | 11267.8 | 10523.7 | 9705.8 | 9890.5 | 10453.8 | 10365.5 |
| 52.5° | 9408.9 | 9490.9 | 9752.0 | 10340.4 | 11319.4 | 11680.8 | 11736.1 | 11147.7 | 11536.9 | 12183.4 | 11543.6 |
| 55° | 7606.8 | 7757.3 | 9441.9 | 10261.2 | 11380.0 | 12085.7 | 12815.3 | 12667.5 | 13393.2 | 14146.5 | 12873.4 |
| 57.5° | 7263.9 | 7358.8 | 8293.0 | 10427.4 | 11702.0 | 12858.9 | 14015.9 | 14340.5 | 15554.2 | 16428.8 | 14493.4 |
| 60° | 7196.6 | 7314.0 | 8281.0 | 10630.6 | 12354.8 | 14118.8 | 15795.5 | 16365.5 | 18183.4 | 19141.3 | 16372.1 |
| 62.5° | 6986.8 | 7113.5 | 8203.2 | 10604.2 | 13282.3 | 15861.6 | 18073.9 | 18518.5 | 20676.8 | 21608.2 | 17943.4 |
| 65° | 6321.9 | 6440.7 | 7568.6 | 10178.2 | 13907.6 | 17721.8 | 20770.5 | 20492.1 | 22645.2 | 23345.7 | 18727.0 |
| 66° | 5866.8 | 5982.8 | 7068.7 | 9676.8 | 13762.6 | 18249.3 | 21725.7 | 21103.0 | 23085.8 | 23634.6 | 18574.0 |
| 67.5° | 5034.3 | 5125.3 | 6097.6 | 8554.1 | 12990.7 | 18397.2 | 22529.1 | 21562.0 | 23132.0 | 23325.8 | 17699.2 |
| 70° | 3180.8 | 3207.0 | 3963.1 | 5905.0 | 9833.7 | 15955.2 | 21306.1 | 20422.2 | 21224.3 | 20699.3 | 14837.8 |
| 72.5° | 1379.9 | 1370.8 | 1902.4 | 3003.9 | 5567.2 | 10705.8 | 17234.9 | 16850.9 | 16649.1 | 15451.2 | 10386.6 |
| 75° | 767.8 | 778.4 | 988.1 | 1394.4 | 2262.6 | 5258.6 | 11274.4 | 10789.0 | 9109.5 | 7773.2 | 4709.8 |
| 77.5° | 616.1 | 630.6 | 819.3 | 989.5 | 1015.9 | 1833.8 | 5275.7 | 4292.9 | 2584.5 | 2073.8 | 1308.7 |
| 80° | 486.8 | 513.2 | 715.1 | 770.4 | 684.7 | 756.0 | 1704.4 | 1362.8 | 1022.5 | 938.0 | 678.1 |
| 82.5° | 385.3 | 403.7 | 613.5 | 583.1 | 478.8 | 509.2 | 816.6 | 795.4 | 664.9 | 605.5 | 391.8 |
| 85° | 277.0 | 311.4 | 503.9 | 439.4 | 314.0 | 343.1 | 542.1 | 519.8 | 381.3 | 311.4 | 172.8 |
| 87.5° | 113.5 | 147.7 | 356.2 | 291.6 | 175.4 | 159.5 | 270.5 | 254.6 | 180.6 | 132.0 | 85.8 |
| 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: P268790

CATALOG NUMBER: GAN-AF-08-LED-U-T3R-7027-600

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3979.0 | 3979.0 | 3979.0 | 3979.0 | 3979.0 | 3979.0 | 3979.0 | 3979.0 | 3979.0 | 3979.0 | 3979.0 |
| 2.5° | 3974.9 | 4006.6 | 4047.6 | 4072.6 | 4085.9 | 4095.1 | 4109.4 | 4108.2 | 4112.1 | 4113.5 | 4118.8 |
| 5° | 4001.3 | 4054.1 | 4113.5 | 4129.2 | 4129.2 | 4114.7 | 4100.3 | 4076.5 | 4067.3 | 4064.7 | 4067.3 |
| 7.5° | 4070.0 | 4128.0 | 4179.5 | 4160.9 | 4121.3 | 4063.4 | 3988.1 | 3922.2 | 3886.5 | 3874.7 | 3872.1 |
| 10° | 4156.9 | 4227.0 | 4248.1 | 4178.0 | 4062.0 | 3922.2 | 3773.2 | 3664.9 | 3602.9 | 3585.8 | 3580.5 |
| 12.5° | 4262.5 | 4328.6 | 4299.5 | 4151.7 | 3936.7 | 3711.1 | 3505.2 | 3332.4 | 3203.1 | 3162.3 | 3159.7 |
| 15° | 4378.7 | 4430.1 | 4328.6 | 4070.0 | 3749.3 | 3417.0 | 3050.1 | 2752.0 | 2591.0 | 2539.6 | 2535.6 |
| 17.5° | 4486.9 | 4513.3 | 4311.3 | 3927.5 | 3473.7 | 2935.3 | 2448.6 | 2219.1 | 2163.6 | 2176.9 | 2179.4 |
| 20° | 4579.2 | 4579.2 | 4253.4 | 3722.9 | 3039.5 | 2300.7 | 1993.3 | 1989.4 | 2029.0 | 2068.5 | 2076.5 |
| 22.5° | 4680.8 | 4620.1 | 4151.7 | 3434.0 | 2424.9 | 1882.6 | 1837.8 | 1874.7 | 1919.5 | 1963.1 | 1969.7 |
| 25° | 4806.1 | 4653.0 | 4010.6 | 2996.0 | 1906.4 | 1709.7 | 1726.9 | 1757.3 | 1779.7 | 1807.4 | 1811.3 |
| 27.5° | 4945.9 | 4695.4 | 3824.5 | 2393.2 | 1654.4 | 1601.6 | 1614.8 | 1625.4 | 1622.7 | 1633.3 | 1636.0 |
| 30° | 5113.4 | 4744.0 | 3570.0 | 1870.7 | 1550.1 | 1509.2 | 1485.4 | 1476.3 | 1476.3 | 1493.4 | 1500.0 |
| 32.5° | 5337.8 | 4816.6 | 3204.6 | 1602.8 | 1500.0 | 1443.2 | 1366.7 | 1332.5 | 1345.7 | 1403.7 | 1416.8 |
| 35° | 5584.5 | 4894.4 | 2709.7 | 1511.8 | 1489.5 | 1412.9 | 1294.2 | 1230.9 | 1232.1 | 1286.4 | 1303.4 |
| 37.5° | 5853.5 | 4993.4 | 2167.5 | 1494.7 | 1513.1 | 1414.2 | 1255.9 | 1168.9 | 1133.2 | 1133.2 | 1139.9 |
| 40° | 6197.9 | 5094.9 | 1754.6 | 1506.5 | 1563.3 | 1430.1 | 1236.2 | 1120.0 | 1019.8 | 1022.5 | 1027.8 |
| 42.5° | 6646.5 | 5182.1 | 1533.0 | 1531.7 | 1624.0 | 1451.2 | 1234.8 | 1055.4 | 968.4 | 1027.8 | 1081.7 |
| 45° | 7145.2 | 5225.6 | 1435.3 | 1554.1 | 1672.9 | 1464.3 | 1213.7 | 1044.9 | 974.9 | 1151.6 | 1254.7 |
| 47.5° | 7719.0 | 5200.6 | 1381.2 | 1562.1 | 1684.7 | 1464.3 | 1190.0 | 1069.9 | 1021.2 | 1333.8 | 1453.8 |
| 50° | 8348.3 | 5128.0 | 1328.6 | 1546.3 | 1680.8 | 1461.7 | 1212.4 | 1094.9 | 1038.4 | 1365.5 | 1448.5 |
| 52.5° | 9088.4 | 5067.2 | 1273.1 | 1511.8 | 1653.1 | 1447.2 | 1238.9 | 1084.4 | 984.2 | 1241.5 | 1299.5 |
| 55° | 9932.7 | 5084.4 | 1211.0 | 1463.1 | 1609.6 | 1419.5 | 1229.6 | 1042.3 | 927.4 | 1093.6 | 1129.3 |
| 57.5° | 11012.0 | 5289.0 | 1137.3 | 1401.0 | 1550.1 | 1373.4 | 1196.5 | 1022.5 | 910.3 | 992.1 | 1013.2 |
| 60° | 12216.4 | 5645.0 | 1044.9 | 1339.1 | 1476.3 | 1299.5 | 1171.5 | 1031.7 | 918.2 | 984.2 | 994.8 |
| 62.5° | 13100.3 | 5852.3 | 965.7 | 1248.0 | 1376.1 | 1217.7 | 1139.9 | 1043.6 | 939.3 | 1011.9 | 1009.2 |
| 65° | 13340.4 | 5511.9 | 866.8 | 1114.7 | 1240.1 | 1132.0 | 1100.2 | 1056.8 | 948.5 | 1034.3 | 1022.5 |
| 66° | 13004.0 | 5145.1 | 823.2 | 1052.8 | 1171.5 | 1089.7 | 1080.5 | 1055.4 | 944.6 | 1037.0 | 1017.2 |
| 67.5° | 12187.3 | 4393.2 | 748.0 | 961.7 | 1061.9 | 1026.5 | 1048.9 | 1043.6 | 934.1 | 1034.3 | 1006.6 |
| 70° | 9939.3 | 2997.4 | 639.9 | 800.7 | 883.9 | 903.7 | 988.1 | 1001.3 | 899.7 | 988.1 | 927.4 |
| 72.5° | 6944.5 | 1825.8 | 565.9 | 621.4 | 715.1 | 770.4 | 905.0 | 943.3 | 853.6 | 862.8 | 804.7 |
| 75° | 3356.2 | 969.7 | 513.2 | 481.5 | 555.4 | 643.7 | 804.7 | 864.1 | 780.9 | 721.7 | 700.5 |
| 77.5° | 1046.2 | 592.3 | 435.4 | 387.9 | 435.4 | 519.8 | 672.8 | 757.2 | 695.3 | 604.2 | 596.4 |
| 80° | 562.0 | 435.4 | 335.1 | 311.4 | 344.3 | 407.7 | 529.0 | 632.0 | 597.6 | 542.1 | 484.1 |
| 82.5° | 370.7 | 282.2 | 248.0 | 241.5 | 262.6 | 311.4 | 393.2 | 523.7 | 523.7 | 464.3 | 337.8 |
| 85° | 191.2 | 172.8 | 170.1 | 170.1 | 183.3 | 207.1 | 267.9 | 403.7 | 430.1 | 245.3 | 203.1 |
| 87.5° | 95.0 | 99.0 | 92.3 | 96.3 | 102.9 | 101.6 | 128.0 | 203.1 | 242.7 | 149.1 | 124.1 |
| 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)