

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: P267138

Luminaire Tested: **GAN-AF-08-LED-U-AFL-7027-1200-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
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-AFL-7027-1200-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37219.7 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

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

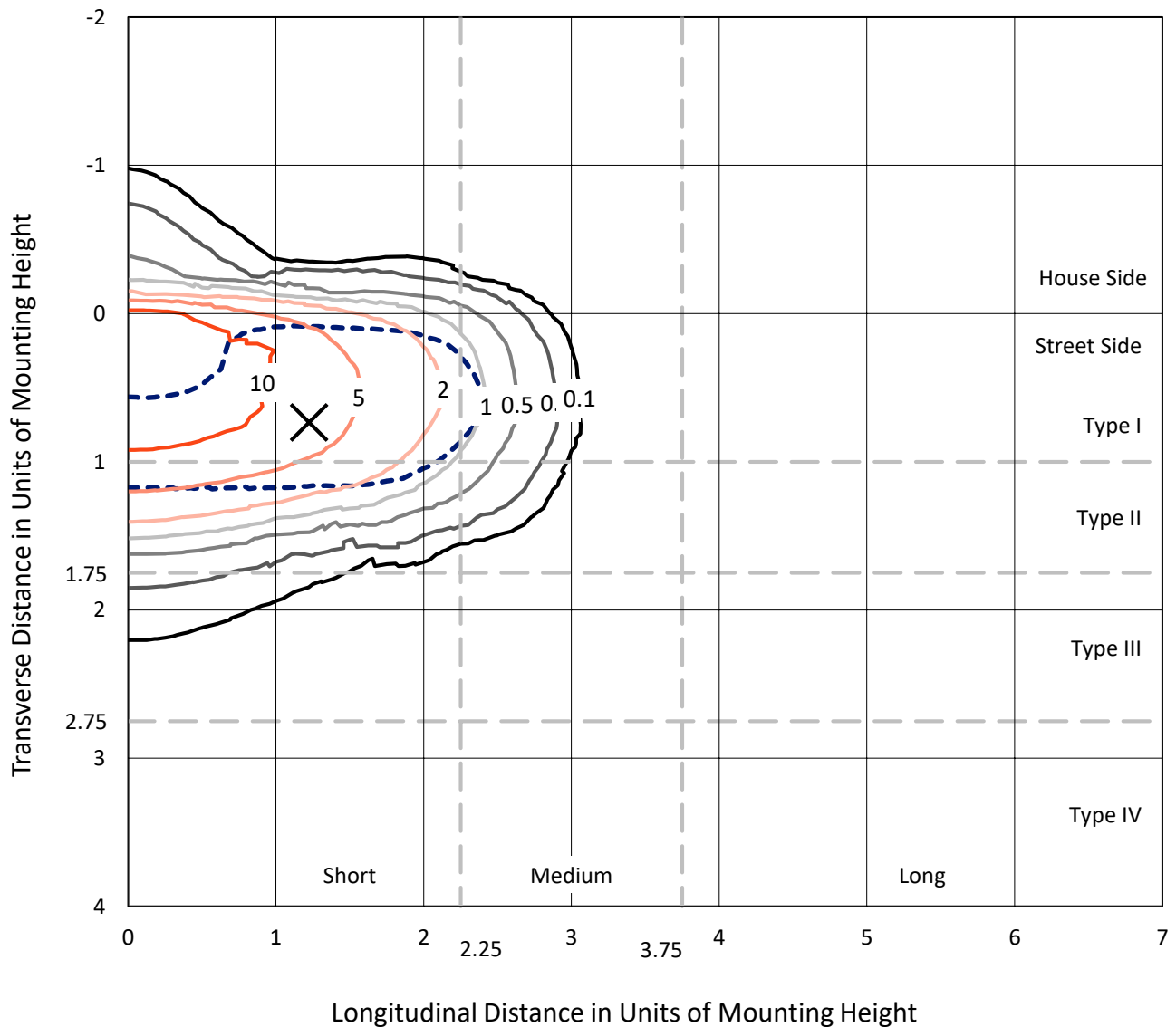


REPORT NUMBER: P267138

CATALOG NUMBER: GAN-AF-08-LED-U-AFL-7027-1200-HSS-ADJ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

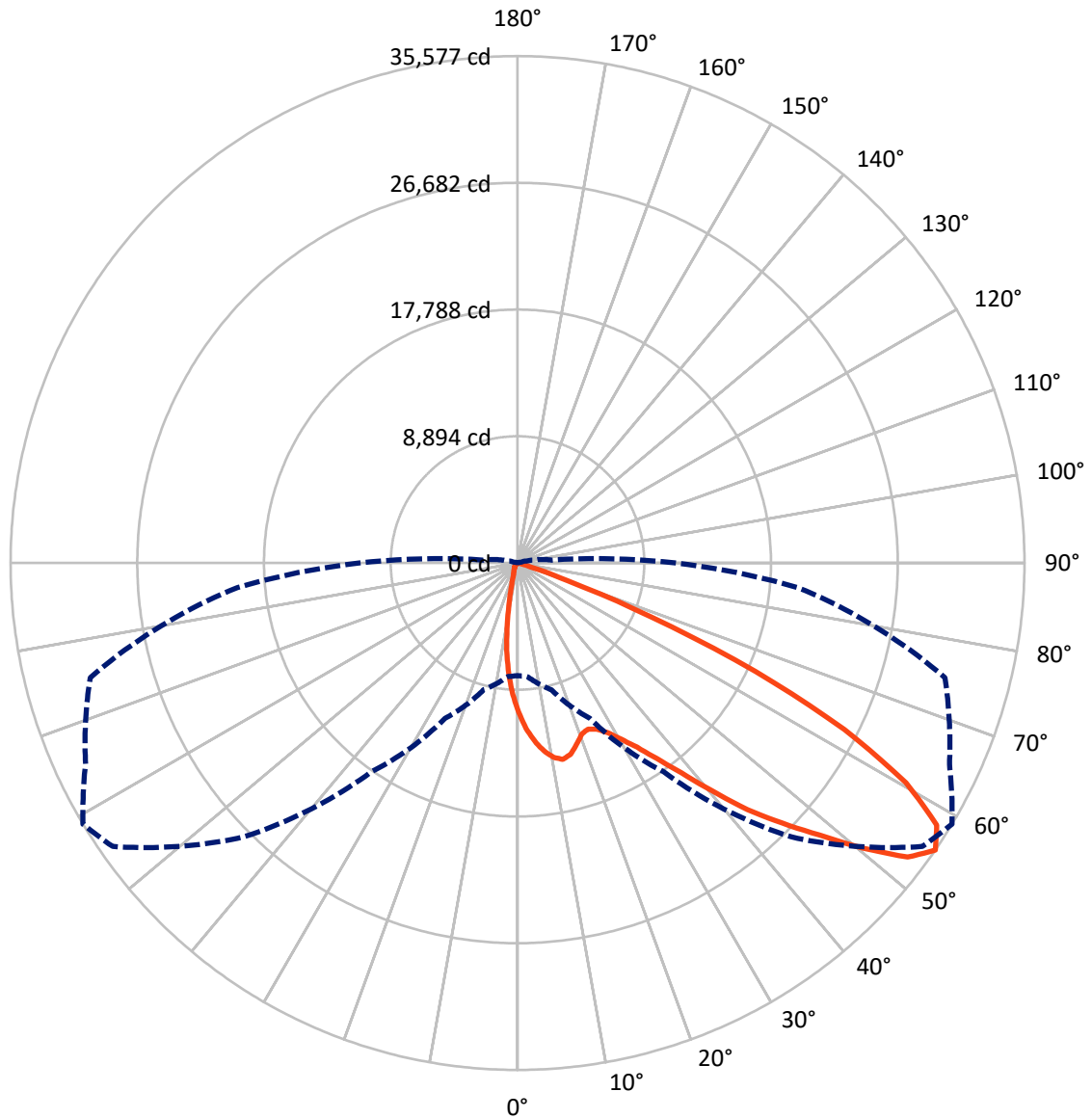


Based on 30 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P267138

CATALOG NUMBER: GAN-AF-08-LED-U-AFL-7027-1200-HSS-ADJ

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P267138

CATALOG NUMBER: GAN-AF-08-LED-U-AFL-7027-1200-HSS-ADJ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2078.9 | 0.0 | 2078.9 |
| | % Fixture | 5.6 | 0.0 | 5.6 |
| Street Side | Lumens | 35140.8 | 0.0 | 35140.8 |
| | % Fixture | 94.4 | 0.0 | 94.4 |
| Total | Lumens | 37219.7 | 0.0 | 37219.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 877.6 | 2.4 |
| 10°-20° | 2101.2 | 5.6 |
| 20°-30° | 3575.4 | 9.6 |
| 30°-40° | 6148.9 | 16.5 |
| 40°-50° | 9493.2 | 25.5 |
| 50°-60° | 9543.7 | 25.6 |
| 60°-70° | 4894.1 | 13.1 |
| 70°-80° | 530.4 | 1.4 |
| 80°-90° | 55.4 | 0.1 |
| 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° | 37219.7 | 100.0 |
| 0°-180° | 37219.7 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P267138

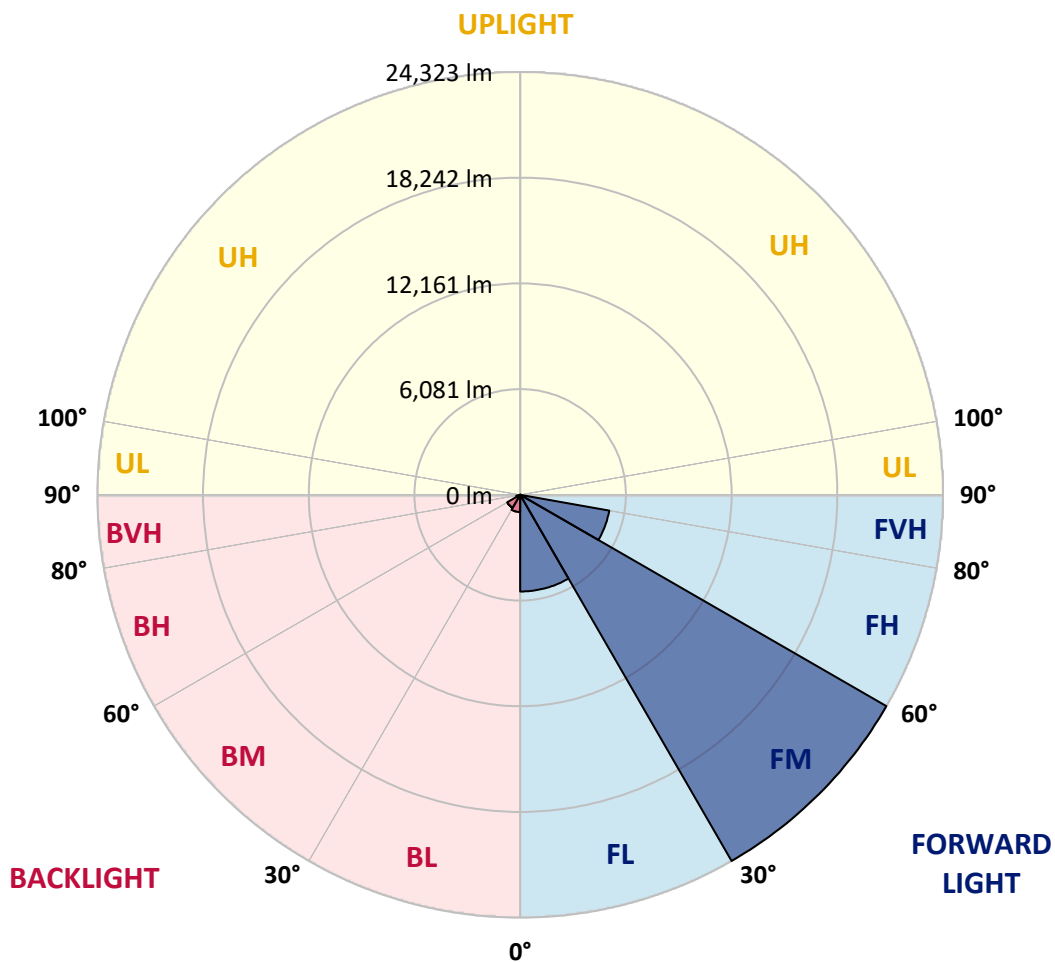
CATALOG NUMBER: GAN-AF-08-LED-U-AFL-7027-1200-HSS-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 5561.9 | 14.9 | | | |
| FM | (30°-60°) | 24322.9 | 65.3 | | | |
| FH | (60°-80°) | 5201.7 | 14.0 | | | G3/7500 |
| FVH | (80°-90°) | 54.3 | 0.1 | | | G1/100 |
| BL | (0°-30°) | 992.3 | 2.7 | B2/1000 | | |
| BM | (30°-60°) | 862.8 | 2.3 | B1/1000 | | |
| BH | (60°-80°) | 222.7 | 0.6 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 1.1 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type II Short





REPORT NUMBER: P267138

CATALOG NUMBER: GAN-AF-08-LED-U-AFL-7027-1200-HSS-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10477.2 | 10477.2 | 10477.2 | 10477.2 | 10477.2 | 10477.2 | 10477.2 | 10477.2 | 10477.2 | 10477.2 | 10477.2 |
| 2.5° | 12397.0 | 12265.2 | 12225.7 | 12199.3 | 12078.5 | 11926.8 | 11720.5 | 11623.8 | 11426.1 | 11107.6 | 10716.6 |
| 5° | 13532.5 | 13508.4 | 13420.5 | 13372.2 | 13242.6 | 13027.3 | 12697.8 | 12539.7 | 12225.7 | 11689.6 | 10989.0 |
| 7.5° | 13036.2 | 13187.7 | 13308.5 | 13510.6 | 13765.4 | 13756.6 | 13479.8 | 13315.0 | 12963.6 | 12256.4 | 11292.1 |
| 10° | 11118.6 | 11241.6 | 11439.2 | 11898.3 | 12834.1 | 13659.9 | 13985.1 | 13866.3 | 13585.2 | 12777.0 | 11584.3 |
| 12.5° | 10743.0 | 10729.9 | 10765.0 | 10899.0 | 11388.7 | 12566.1 | 13899.4 | 14138.8 | 14081.7 | 13253.6 | 11861.0 |
| 15° | 10942.9 | 10927.5 | 10923.1 | 10969.3 | 11087.8 | 11584.3 | 13255.7 | 13943.3 | 14384.7 | 13695.1 | 12096.0 |
| 17.5° | 11502.9 | 11437.1 | 11401.9 | 11364.5 | 11329.5 | 11452.4 | 12482.6 | 13396.3 | 14430.9 | 14081.7 | 12291.5 |
| 20° | 12462.8 | 12353.0 | 12223.4 | 12012.6 | 11814.9 | 11753.3 | 12157.5 | 12834.1 | 14266.2 | 14375.9 | 12418.9 |
| 22.5° | 13668.7 | 13528.1 | 13304.1 | 12919.8 | 12517.7 | 12285.0 | 12317.9 | 12656.1 | 14020.1 | 14696.7 | 12478.3 |
| 25° | 15024.0 | 14843.9 | 14545.0 | 14011.4 | 13420.5 | 13007.5 | 12792.4 | 12910.9 | 13908.1 | 15072.2 | 12546.3 |
| 27.5° | 16475.9 | 16275.9 | 15885.0 | 15157.9 | 14488.0 | 13930.0 | 13490.7 | 13475.5 | 14099.2 | 15564.3 | 12656.1 |
| 30° | 17914.4 | 17883.7 | 17374.2 | 16605.3 | 15718.1 | 15039.3 | 14406.7 | 14325.5 | 14633.0 | 16245.2 | 12873.6 |
| 32.5° | 19834.2 | 19603.6 | 18979.7 | 18189.2 | 17165.5 | 16350.6 | 15601.7 | 15412.7 | 15452.3 | 17038.2 | 13209.7 |
| 35° | 22254.8 | 22002.1 | 21123.6 | 20031.9 | 18887.6 | 17925.5 | 17097.4 | 16840.4 | 16743.8 | 18336.3 | 13776.3 |
| 37.5° | 23818.6 | 23814.2 | 23263.0 | 22151.6 | 20923.7 | 19862.9 | 18962.2 | 18661.3 | 18465.7 | 19904.6 | 14654.9 |
| 40° | 23860.4 | 23963.6 | 24036.0 | 24025.1 | 23150.8 | 22173.6 | 21374.0 | 21002.7 | 20548.1 | 22000.0 | 15790.4 |
| 42.5° | 22579.8 | 22845.7 | 23484.7 | 24569.8 | 25088.3 | 24699.4 | 24025.1 | 23660.5 | 22984.0 | 24242.6 | 17174.2 |
| 45° | 20849.0 | 21033.5 | 22151.6 | 24150.4 | 26138.2 | 27203.5 | 26689.5 | 26037.2 | 25145.4 | 26581.8 | 18415.3 |
| 47.5° | 20073.6 | 20106.7 | 20829.3 | 23023.5 | 26217.3 | 29254.9 | 29566.9 | 28505.9 | 27109.1 | 28466.4 | 19386.1 |
| 50° | 17756.3 | 17815.6 | 18812.8 | 21070.9 | 25290.3 | 30223.7 | 32457.4 | 31451.5 | 29250.6 | 29918.3 | 19739.7 |
| 52.5° | 13383.2 | 13466.6 | 14731.8 | 17861.8 | 22742.4 | 29810.7 | 34526.5 | 34282.6 | 31596.4 | 30627.7 | 19759.6 |
| 55° | 7896.3 | 8006.1 | 9214.3 | 12023.5 | 17888.2 | 27183.7 | 34680.2 | 35576.5 | 33448.0 | 31047.3 | 19728.8 |
| 57.5° | 3687.9 | 3764.7 | 4456.8 | 6194.2 | 11125.1 | 21483.9 | 32365.2 | 34689.0 | 34469.5 | 31269.1 | 19946.2 |
| 60° | 1959.3 | 1981.2 | 2148.1 | 2681.9 | 5027.8 | 13622.5 | 27847.0 | 31324.1 | 33538.1 | 31576.6 | 20212.0 |
| 62.5° | 1498.1 | 1504.7 | 1495.8 | 1559.5 | 2113.1 | 6046.9 | 21048.8 | 25751.5 | 29788.7 | 31345.9 | 19917.7 |
| 65° | 1298.1 | 1309.1 | 1247.6 | 1232.3 | 1355.3 | 2156.9 | 12504.5 | 18356.0 | 23407.9 | 28233.5 | 17912.4 |
| 67.5° | 1164.2 | 1168.5 | 1093.9 | 1030.1 | 1052.2 | 1166.3 | 4933.3 | 10048.9 | 15494.0 | 20695.2 | 12983.5 |
| 70° | 1071.9 | 1067.5 | 986.2 | 885.2 | 856.7 | 797.3 | 1568.4 | 3683.5 | 7404.3 | 10494.8 | 6038.1 |
| 72.5° | 948.9 | 951.0 | 911.5 | 779.8 | 711.6 | 557.8 | 727.1 | 1074.1 | 2209.7 | 2859.8 | 1414.6 |
| 75° | 841.3 | 830.3 | 782.0 | 698.5 | 586.5 | 366.8 | 360.2 | 478.8 | 680.9 | 676.6 | 305.3 |
| 77.5° | 608.4 | 597.5 | 612.9 | 573.3 | 450.3 | 237.2 | 180.1 | 230.7 | 276.8 | 268.0 | 85.7 |
| 80° | 445.9 | 439.4 | 395.3 | 476.6 | 397.6 | 162.6 | 112.0 | 123.0 | 142.8 | 120.8 | 26.4 |
| 82.5° | 305.3 | 303.1 | 279.0 | 263.7 | 226.3 | 98.9 | 70.2 | 76.8 | 92.3 | 68.1 | 13.1 |
| 85° | 48.2 | 54.8 | 202.1 | 160.3 | 133.9 | 43.9 | 48.2 | 52.7 | 61.5 | 37.3 | 4.4 |
| 87.5° | 0.0 | 0.0 | 94.4 | 83.5 | 26.4 | 17.5 | 28.6 | 30.7 | 30.7 | 19.8 | 0.0 |
| 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: P267138

CATALOG NUMBER: GAN-AF-08-LED-U-AFL-7027-1200-HSS-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10477.2 | 10477.2 | 10477.2 | 10477.2 | 10477.2 | 10477.2 | 10477.2 | 10477.2 | 10477.2 | 10477.2 | 10477.2 |
| 2.5° | 10516.7 | 10297.1 | 9890.8 | 9471.2 | 9082.5 | 8619.0 | 8300.5 | 8061.1 | 7784.4 | 7709.7 | 7872.1 |
| 5° | 10589.2 | 10174.2 | 9300.0 | 8348.8 | 7454.9 | 6464.3 | 5706.5 | 5106.9 | 4564.3 | 4379.7 | 4546.7 |
| 7.5° | 10703.5 | 10086.3 | 8660.6 | 7094.6 | 5539.5 | 3993.1 | 2934.6 | 2238.1 | 1794.5 | 1662.8 | 1733.0 |
| 10° | 10817.7 | 9958.9 | 7920.5 | 5609.8 | 3483.6 | 1943.9 | 1265.2 | 1010.4 | 915.9 | 896.1 | 907.2 |
| 12.5° | 10912.2 | 9787.6 | 7017.7 | 3988.8 | 1862.6 | 1041.1 | 828.1 | 786.3 | 773.1 | 773.1 | 777.6 |
| 15° | 10969.3 | 9528.3 | 5948.0 | 2537.0 | 1071.9 | 786.3 | 722.6 | 709.5 | 709.5 | 711.6 | 716.0 |
| 17.5° | 10962.6 | 9198.9 | 4777.4 | 1535.4 | 801.6 | 696.2 | 658.9 | 647.9 | 645.8 | 650.2 | 652.3 |
| 20° | 10881.3 | 8768.4 | 3602.3 | 1012.6 | 698.5 | 634.8 | 597.5 | 577.7 | 575.5 | 579.9 | 584.3 |
| 22.5° | 10727.6 | 8236.7 | 2576.5 | 779.8 | 630.4 | 575.5 | 529.3 | 511.8 | 511.8 | 516.2 | 520.6 |
| 25° | 10540.9 | 7586.6 | 1761.5 | 661.2 | 568.8 | 511.8 | 467.8 | 452.4 | 456.9 | 467.8 | 470.1 |
| 27.5° | 10308.1 | 6855.2 | 1197.1 | 566.7 | 494.2 | 448.1 | 415.1 | 404.1 | 415.1 | 430.5 | 434.9 |
| 30° | 10108.2 | 6093.1 | 854.5 | 489.8 | 419.5 | 386.6 | 366.8 | 366.8 | 382.1 | 410.7 | 417.4 |
| 32.5° | 9954.5 | 5355.1 | 658.9 | 432.8 | 364.6 | 336.1 | 325.0 | 336.1 | 360.2 | 388.7 | 395.3 |
| 35° | 9934.6 | 4746.6 | 557.8 | 386.6 | 325.0 | 296.5 | 292.0 | 311.9 | 336.1 | 358.1 | 362.5 |
| 37.5° | 10086.3 | 4184.2 | 503.1 | 349.3 | 290.0 | 263.7 | 259.3 | 283.3 | 307.5 | 333.9 | 340.5 |
| 40° | 10373.9 | 3742.8 | 463.4 | 314.0 | 261.3 | 232.8 | 224.0 | 241.6 | 274.5 | 309.6 | 318.4 |
| 42.5° | 10747.4 | 3378.2 | 419.5 | 279.0 | 232.8 | 193.2 | 182.3 | 202.1 | 237.2 | 274.5 | 285.5 |
| 45° | 11103.2 | 3064.1 | 371.2 | 239.4 | 195.6 | 149.4 | 144.9 | 171.3 | 189.0 | 226.3 | 235.0 |
| 47.5° | 11298.7 | 2787.4 | 329.5 | 195.6 | 151.5 | 120.8 | 120.8 | 127.4 | 144.9 | 189.0 | 197.6 |
| 50° | 11232.9 | 2565.5 | 285.5 | 144.9 | 105.5 | 92.3 | 92.3 | 90.1 | 116.4 | 151.5 | 158.1 |
| 52.5° | 11101.1 | 2438.1 | 246.0 | 112.0 | 72.6 | 65.8 | 59.3 | 65.8 | 81.2 | 96.7 | 98.9 |
| 55° | 11081.2 | 2416.1 | 206.5 | 90.1 | 50.6 | 43.9 | 33.0 | 33.0 | 33.0 | 30.7 | 26.4 |
| 57.5° | 11235.0 | 2451.3 | 173.6 | 72.6 | 37.3 | 28.6 | 17.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 11393.2 | 2488.7 | 149.4 | 50.6 | 26.4 | 15.5 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 11129.6 | 2405.1 | 125.3 | 30.7 | 19.8 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 9776.6 | 2047.1 | 98.9 | 22.0 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 6954.0 | 1370.6 | 65.8 | 13.1 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 3173.9 | 573.3 | 41.7 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 678.7 | 178.0 | 28.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 138.3 | 129.5 | 11.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 43.9 | 204.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 26.4 | 147.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 4.4 | 22.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)