

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: P299840

Luminaire Tested: **GAA-AF-05-LED-U-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-05-LED-U-SL3-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28679.8 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

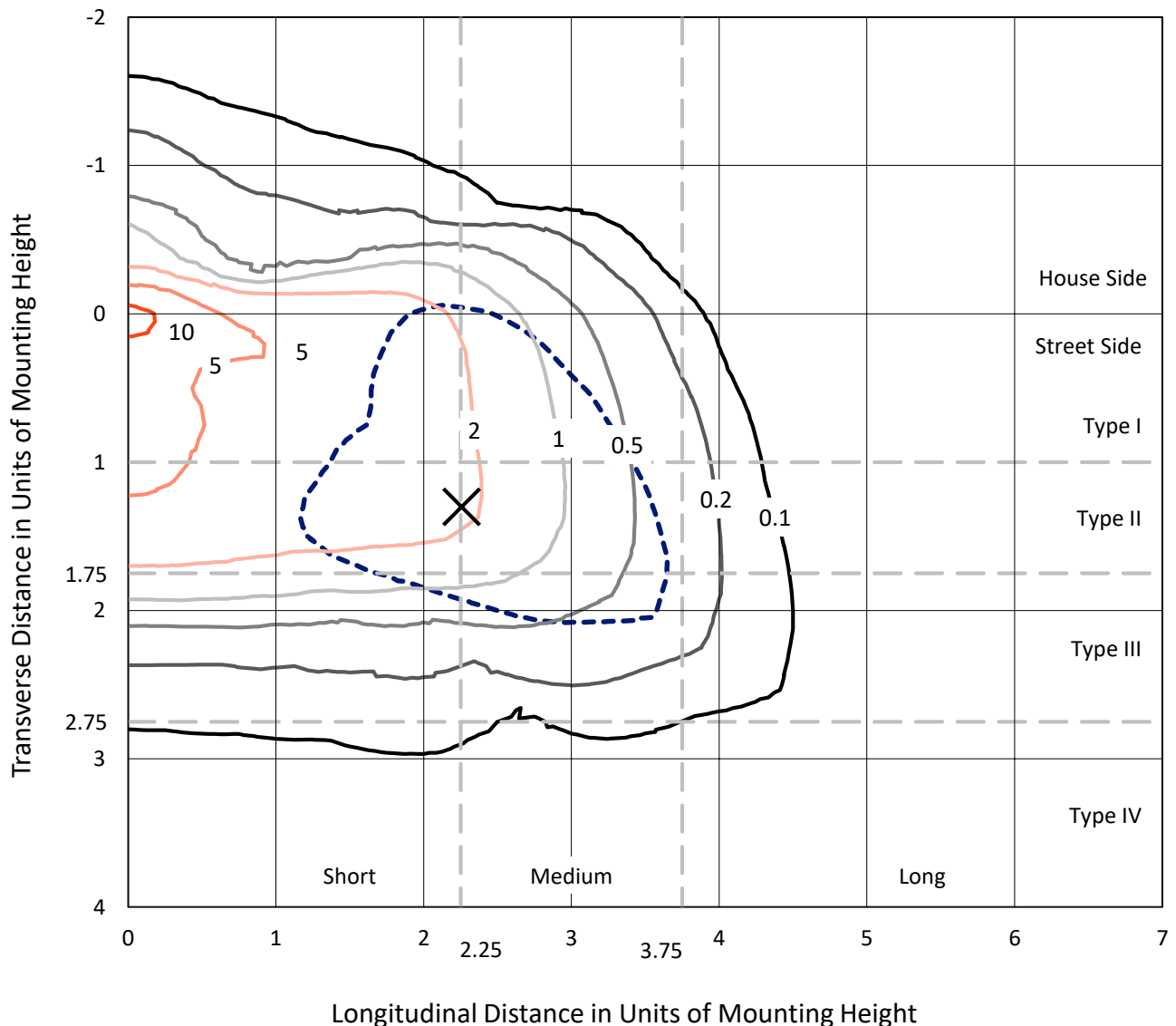
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P299840
 CATALOG NUMBER: GAA-AF-05-LED-U-SL3-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

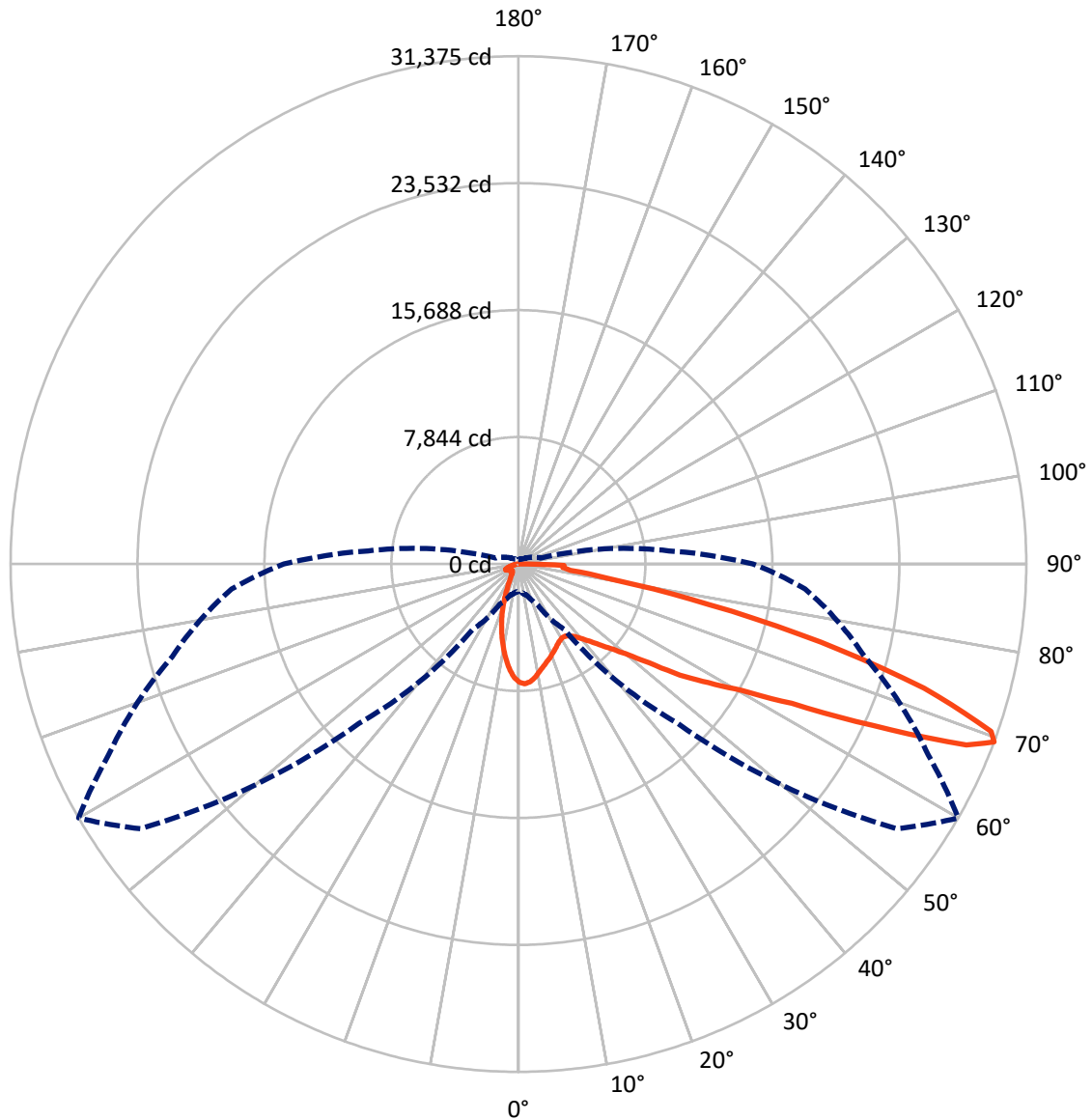


Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P299840

CATALOG NUMBER: GAA-AF-05-LED-U-SL3-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P299840

CATALOG NUMBER: GAA-AF-05-LED-U-SL3-7030

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4080.2 | 0.0 | 4080.2 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 24599.6 | 0.0 | 24599.6 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 28679.8 | 0.0 | 28679.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 617.9 | 2.2 |
| 10°-20° | 1316.5 | 4.6 |
| 20°-30° | 1677.5 | 5.8 |
| 30°-40° | 2306.1 | 8.0 |
| 40°-50° | 3741.9 | 13.0 |
| 50°-60° | 6001.1 | 20.9 |
| 60°-70° | 7986.9 | 27.8 |
| 70°-80° | 4312.3 | 15.0 |
| 80°-90° | 719.5 | 2.5 |
| 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° | 28679.8 | 100.0 |
| 0°-180° | 28679.8 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P299840

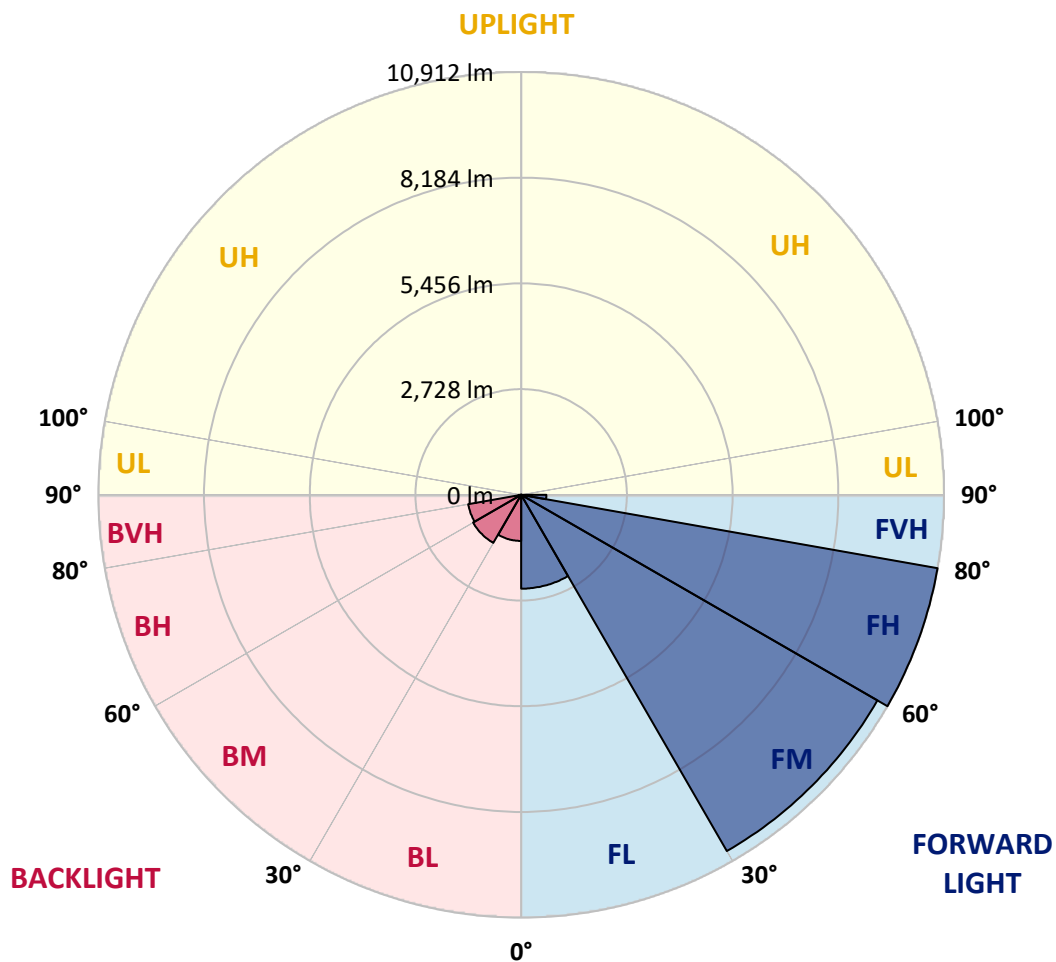
CATALOG NUMBER: GAA-AF-05-LED-U-SL3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2421.6 | 8.4 | | | |
| FM (30°-60°) | 10615.6 | 37.0 | | | |
| FH (60°-80°) | 10912.1 | 38.0 | | | G4/12000 |
| FVH (80°-90°) | 650.3 | 2.3 | | | G4/750 |
| BL (0°-30°) | 1190.3 | 4.2 | B3/2500 | | |
| BM (30°-60°) | 1433.5 | 5.0 | B2/2500 | | |
| BH (60°-80°) | 1387.1 | 4.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 69.3 | 0.2 | | | G1/100 |
| 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 Medium





REPORT NUMBER: P299840

CATALOG NUMBER: GAA-AF-05-LED-U-SL3-7030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7308.1 | 7308.1 | 7308.1 | 7308.1 | 7308.1 | 7308.1 | 7308.1 | 7308.1 | 7308.1 | 7308.1 | 7308.1 |
| 2.5° | 7457.7 | 7474.3 | 7467.4 | 7463.2 | 7475.7 | 7456.3 | 7416.1 | 7403.6 | 7384.2 | 7338.5 | 7260.9 |
| 5° | 7177.8 | 7227.7 | 7224.9 | 7262.3 | 7324.7 | 7341.3 | 7323.3 | 7326.1 | 7290.0 | 7233.2 | 7104.4 |
| 7.5° | 6694.3 | 6715.1 | 6726.2 | 6807.9 | 6921.5 | 7013.0 | 7090.5 | 7115.5 | 7098.9 | 7050.4 | 6884.1 |
| 10° | 6195.6 | 6212.2 | 6238.5 | 6334.1 | 6478.2 | 6604.3 | 6751.1 | 6835.6 | 6871.6 | 6863.3 | 6677.7 |
| 12.5° | 5767.5 | 5784.1 | 5818.7 | 5926.8 | 6098.6 | 6253.8 | 6467.1 | 6572.4 | 6658.3 | 6709.6 | 6510.1 |
| 15° | 5383.7 | 5419.7 | 5453.0 | 5577.7 | 5770.2 | 5973.9 | 6215.0 | 6348.0 | 6481.0 | 6596.0 | 6361.8 |
| 17.5° | 5084.5 | 5120.5 | 5139.9 | 5253.5 | 5458.5 | 5707.9 | 5990.5 | 6147.1 | 6313.3 | 6501.7 | 6215.0 |
| 20° | 4911.3 | 4927.9 | 4919.6 | 4983.3 | 5167.6 | 5432.2 | 5767.5 | 5949.0 | 6149.8 | 6413.1 | 6068.1 |
| 22.5° | 4862.8 | 4864.2 | 4833.7 | 4826.8 | 4945.9 | 5169.0 | 5529.2 | 5749.5 | 5996.1 | 6354.9 | 5942.0 |
| 25° | 4980.6 | 4976.4 | 4893.3 | 4825.4 | 4837.9 | 4968.1 | 5299.2 | 5555.5 | 5867.2 | 6342.4 | 5845.1 |
| 27.5° | 5242.4 | 5254.9 | 5131.6 | 5004.1 | 4878.0 | 4873.9 | 5124.6 | 5394.8 | 5761.9 | 6399.2 | 5803.5 |
| 30° | 5609.5 | 5630.3 | 5498.7 | 5336.6 | 5099.7 | 4904.4 | 5056.8 | 5299.2 | 5696.8 | 6517.0 | 5796.6 |
| 32.5° | 6011.3 | 6033.5 | 5933.7 | 5763.3 | 5453.0 | 5092.8 | 5103.9 | 5307.5 | 5694.0 | 6681.8 | 5843.7 |
| 35° | 6439.4 | 6464.3 | 6413.1 | 6269.0 | 5924.0 | 5440.5 | 5284.0 | 5441.9 | 5784.1 | 6934.0 | 5969.7 |
| 37.5° | 6917.4 | 6956.2 | 6970.0 | 6832.9 | 6464.3 | 5899.1 | 5579.1 | 5696.8 | 5987.8 | 7284.5 | 6201.1 |
| 40° | 7605.9 | 7659.9 | 7655.8 | 7459.1 | 7083.6 | 6518.4 | 6034.9 | 6065.3 | 6305.0 | 7752.8 | 6571.0 |
| 42.5° | 8924.8 | 8935.9 | 8590.9 | 8162.9 | 7765.2 | 7169.5 | 6572.4 | 6547.5 | 6742.8 | 8345.7 | 7115.5 |
| 45° | 10602.6 | 10556.8 | 9789.3 | 8962.2 | 8477.3 | 7917.6 | 7272.0 | 7150.1 | 7298.4 | 9068.9 | 7797.1 |
| 47.5° | 11994.9 | 11889.6 | 10919.8 | 9778.2 | 9231.0 | 8730.9 | 8093.6 | 7880.2 | 7962.0 | 9889.1 | 8678.2 |
| 50° | 12478.4 | 12399.4 | 11595.9 | 10457.1 | 9944.5 | 9722.8 | 9104.9 | 8802.9 | 8825.1 | 10867.2 | 9710.4 |
| 52.5° | 12374.5 | 12363.4 | 11827.3 | 10904.6 | 10612.3 | 10764.7 | 10537.4 | 10128.8 | 9912.6 | 11953.3 | 10824.2 |
| 55° | 12129.3 | 12152.8 | 11958.9 | 11425.5 | 11375.6 | 11770.5 | 12409.1 | 12107.1 | 11435.2 | 13049.2 | 11975.5 |
| 57.5° | 11277.3 | 11338.2 | 11764.9 | 12080.8 | 12604.5 | 13191.9 | 13916.5 | 13830.6 | 13074.1 | 14233.7 | 13344.3 |
| 60° | 9085.5 | 9226.8 | 10371.2 | 11953.3 | 13869.4 | 15706.4 | 16030.6 | 15831.1 | 14764.3 | 15703.7 | 15152.3 |
| 62.5° | 6366.0 | 6512.8 | 7873.3 | 10349.0 | 13661.6 | 18546.5 | 19810.0 | 18949.7 | 17191.6 | 17869.1 | 17492.2 |
| 65° | 3408.1 | 3478.8 | 4517.8 | 7180.6 | 11533.6 | 19132.6 | 25333.7 | 24024.4 | 21034.7 | 20538.7 | 19494.1 |
| 67.5° | 1880.0 | 1918.8 | 2316.4 | 3625.6 | 7387.0 | 16848.0 | 28852.6 | 29841.8 | 25837.9 | 22316.2 | 19129.8 |
| 69° | 1699.9 | 1735.9 | 1996.4 | 2745.9 | 4943.2 | 13930.3 | 28509.0 | 31375.4 | 27943.8 | 22140.3 | 17783.2 |
| 70° | 1662.5 | 1695.7 | 1929.9 | 2531.1 | 4001.1 | 11482.3 | 27357.7 | 30983.4 | 28445.3 | 21509.9 | 16608.3 |
| 72.5° | 1496.2 | 1532.3 | 1759.5 | 2273.5 | 3419.2 | 5724.5 | 21670.6 | 26196.8 | 25825.5 | 18650.4 | 12597.6 |
| 75° | 1395.1 | 1428.4 | 1813.5 | 2226.4 | 3273.7 | 3622.9 | 14286.4 | 19307.1 | 18984.3 | 13046.4 | 6792.7 |
| 77.5° | 597.1 | 594.3 | 840.9 | 1884.2 | 3322.2 | 3507.9 | 7676.6 | 12061.4 | 11004.3 | 5576.3 | 1950.7 |
| 80° | 399.0 | 392.1 | 399.0 | 554.2 | 3046.5 | 3527.3 | 4021.9 | 6122.1 | 4624.5 | 1421.4 | 961.5 |
| 82.5° | 343.6 | 338.0 | 350.5 | 338.0 | 1070.9 | 4026.0 | 3419.2 | 3255.7 | 2198.7 | 807.7 | 476.6 |
| 85° | 231.4 | 221.7 | 302.0 | 303.4 | 505.7 | 3577.1 | 3851.4 | 2750.0 | 1778.9 | 479.4 | 235.5 |
| 87.5° | 110.8 | 108.1 | 175.9 | 214.7 | 296.5 | 1453.3 | 4321.1 | 2817.9 | 1794.1 | 245.2 | 112.2 |
| 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: P299840

CATALOG NUMBER: GAA-AF-05-LED-U-SL3-7030

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7308.1 | 7308.1 | 7308.1 | 7308.1 | 7308.1 | 7308.1 | 7308.1 | 7308.1 | 7308.1 | 7308.1 | 7308.1 |
| 2.5° | 7237.4 | 7180.6 | 7125.2 | 7058.7 | 6989.4 | 6911.8 | 6873.0 | 6834.2 | 6824.5 | 6813.5 | 6774.7 |
| 5° | 7037.9 | 6957.5 | 6819.0 | 6666.6 | 6505.9 | 6349.3 | 6230.2 | 6155.4 | 6098.6 | 6069.5 | 6018.2 |
| 7.5° | 6780.2 | 6662.4 | 6420.0 | 6156.8 | 5886.6 | 5640.0 | 5426.7 | 5292.3 | 5164.8 | 5105.2 | 5037.4 |
| 10° | 6535.0 | 6359.0 | 5982.2 | 5594.3 | 5206.4 | 4833.7 | 4483.2 | 4235.2 | 4014.9 | 3891.6 | 3804.3 |
| 12.5° | 6324.4 | 6083.3 | 5561.0 | 5036.0 | 4504.0 | 3973.4 | 3448.3 | 3035.4 | 2690.5 | 2509.0 | 2416.2 |
| 15° | 6119.4 | 5828.4 | 5160.7 | 4494.3 | 3811.3 | 3089.5 | 2399.5 | 1931.3 | 1645.9 | 1532.3 | 1493.5 |
| 17.5° | 5933.7 | 5561.0 | 4758.9 | 3948.4 | 3096.4 | 2223.6 | 1612.6 | 1354.9 | 1245.5 | 1208.1 | 1195.6 |
| 20° | 5732.8 | 5290.9 | 4341.9 | 3377.6 | 2351.0 | 1554.4 | 1259.3 | 1145.7 | 1101.4 | 1090.3 | 1084.8 |
| 22.5° | 5538.9 | 5024.9 | 3942.9 | 2766.7 | 1688.8 | 1199.8 | 1082.0 | 1034.9 | 1028.0 | 1037.7 | 1037.7 |
| 25° | 5374.0 | 4786.6 | 3512.0 | 2128.0 | 1239.9 | 1010.0 | 968.4 | 957.3 | 983.6 | 1019.7 | 1026.6 |
| 27.5° | 5250.7 | 4591.3 | 3053.4 | 1571.1 | 987.8 | 878.4 | 877.0 | 895.0 | 960.1 | 1029.4 | 1043.2 |
| 30° | 5166.2 | 4405.6 | 2563.0 | 1133.3 | 828.5 | 773.1 | 795.2 | 834.0 | 929.6 | 1028.0 | 1054.3 |
| 32.5° | 5123.3 | 4268.5 | 2051.8 | 877.0 | 709.3 | 678.9 | 716.3 | 763.4 | 857.6 | 949.0 | 983.6 |
| 35° | 5156.5 | 4167.3 | 1569.7 | 731.5 | 626.2 | 602.7 | 641.4 | 687.2 | 742.6 | 781.4 | 807.7 |
| 37.5° | 5281.2 | 4127.1 | 1184.5 | 655.3 | 569.4 | 547.2 | 577.7 | 604.0 | 626.2 | 637.3 | 649.8 |
| 40° | 5550.0 | 4170.1 | 949.0 | 616.5 | 537.5 | 509.8 | 522.3 | 532.0 | 545.9 | 556.9 | 562.5 |
| 42.5° | 5946.2 | 4298.9 | 850.6 | 601.3 | 520.9 | 480.7 | 478.0 | 482.1 | 500.1 | 520.9 | 525.1 |
| 45° | 6500.4 | 4526.1 | 843.7 | 611.0 | 512.6 | 457.2 | 444.7 | 450.3 | 478.0 | 509.8 | 515.4 |
| 47.5° | 7208.3 | 4872.5 | 899.1 | 640.1 | 519.5 | 444.7 | 423.9 | 430.9 | 465.5 | 508.4 | 515.4 |
| 50° | 8065.9 | 5356.0 | 992.0 | 683.0 | 550.0 | 447.5 | 417.0 | 421.2 | 457.2 | 504.3 | 511.2 |
| 52.5° | 9078.6 | 6041.8 | 1093.1 | 724.6 | 581.9 | 465.5 | 422.6 | 412.9 | 446.1 | 487.7 | 496.0 |
| 55° | 10205.0 | 6921.5 | 1197.0 | 762.0 | 598.5 | 487.7 | 433.6 | 401.8 | 425.3 | 460.0 | 466.9 |
| 57.5° | 11587.6 | 8151.8 | 1377.1 | 798.0 | 609.6 | 502.9 | 444.7 | 390.7 | 399.0 | 423.9 | 429.5 |
| 60° | 13459.3 | 9891.8 | 1694.4 | 857.6 | 634.5 | 508.4 | 443.3 | 381.0 | 372.7 | 386.5 | 389.3 |
| 62.5° | 15702.3 | 11781.6 | 1959.0 | 932.4 | 676.1 | 512.6 | 435.0 | 374.1 | 350.5 | 350.5 | 353.3 |
| 65° | 17033.6 | 12287.2 | 1812.1 | 994.7 | 710.7 | 508.4 | 425.3 | 367.1 | 333.9 | 318.6 | 320.0 |
| 67.5° | 15904.5 | 10806.2 | 1553.0 | 1007.2 | 709.3 | 489.1 | 410.1 | 354.7 | 317.3 | 293.7 | 292.3 |
| 69° | 14490.0 | 9323.8 | 1436.7 | 973.9 | 676.1 | 464.1 | 390.7 | 340.8 | 304.8 | 279.9 | 278.5 |
| 70° | 13349.8 | 8419.2 | 1360.5 | 937.9 | 640.1 | 446.1 | 375.4 | 328.3 | 295.1 | 271.5 | 268.8 |
| 72.5° | 9706.2 | 5516.7 | 1162.4 | 806.3 | 527.8 | 374.1 | 324.2 | 288.2 | 263.2 | 249.4 | 246.6 |
| 75° | 4850.3 | 2630.9 | 943.5 | 653.9 | 404.5 | 299.2 | 266.0 | 241.1 | 228.6 | 225.8 | 224.4 |
| 77.5° | 1593.2 | 1205.3 | 674.7 | 487.7 | 300.6 | 234.1 | 214.7 | 196.7 | 194.0 | 202.3 | 199.5 |
| 80° | 875.6 | 701.0 | 428.1 | 322.8 | 205.0 | 171.8 | 169.0 | 159.3 | 163.5 | 177.3 | 174.6 |
| 82.5° | 446.1 | 364.4 | 264.6 | 194.0 | 138.5 | 123.3 | 134.4 | 128.8 | 134.4 | 146.9 | 145.5 |
| 85° | 220.3 | 199.5 | 167.6 | 117.8 | 91.4 | 79.0 | 95.6 | 99.7 | 102.5 | 112.2 | 112.2 |
| 87.5° | 127.5 | 117.8 | 88.7 | 55.4 | 45.7 | 41.6 | 55.4 | 54.0 | 63.7 | 69.3 | 67.9 |
| 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)