

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: P266707

Luminaire Tested: **GAN-AF-02-LED-U-T3-7027-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-T3-7027-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11610 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 129
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

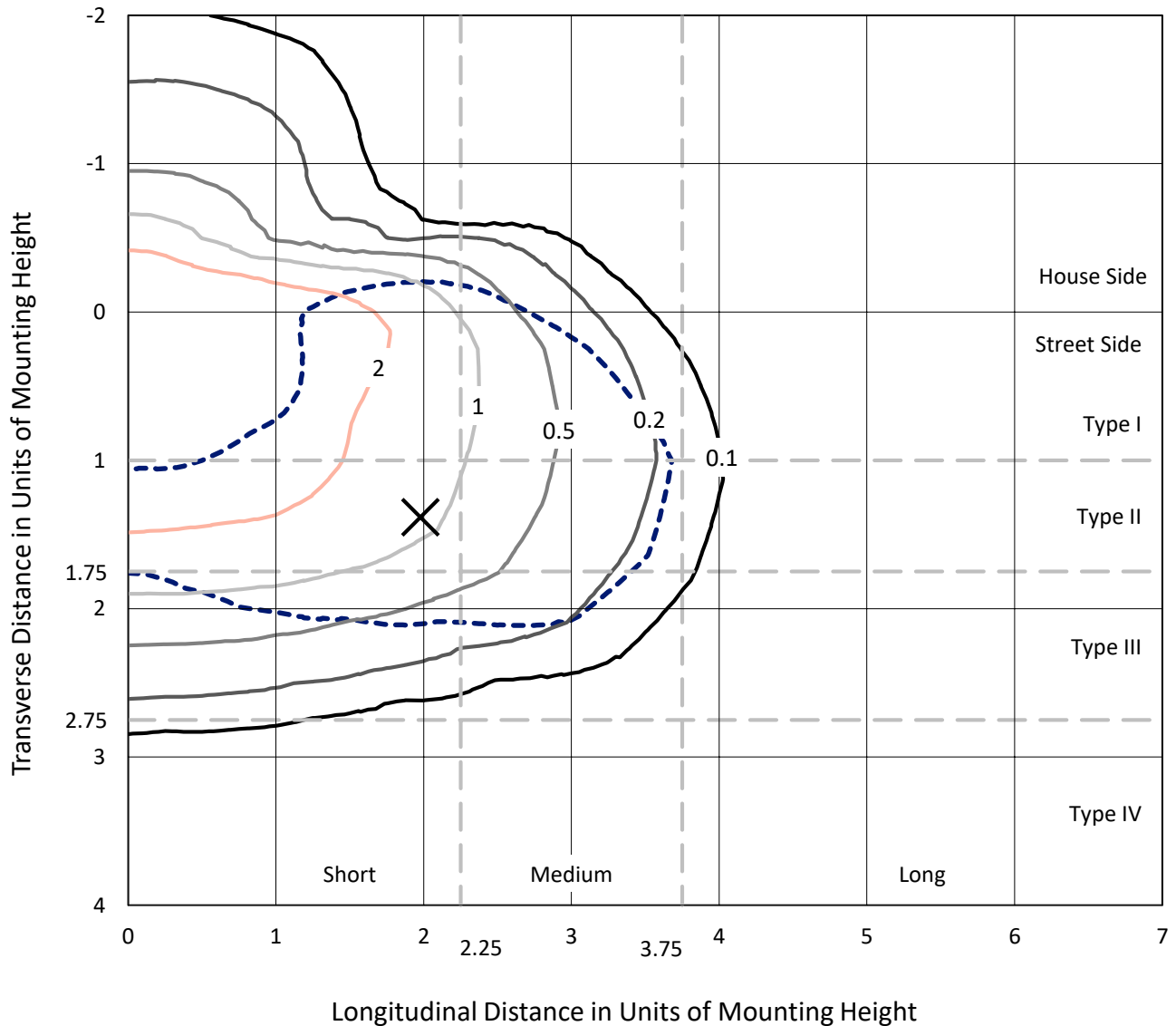


REPORT NUMBER: P266707

CATALOG NUMBER: GAN-AF-02-LED-U-T3-7027-1200-ADJ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

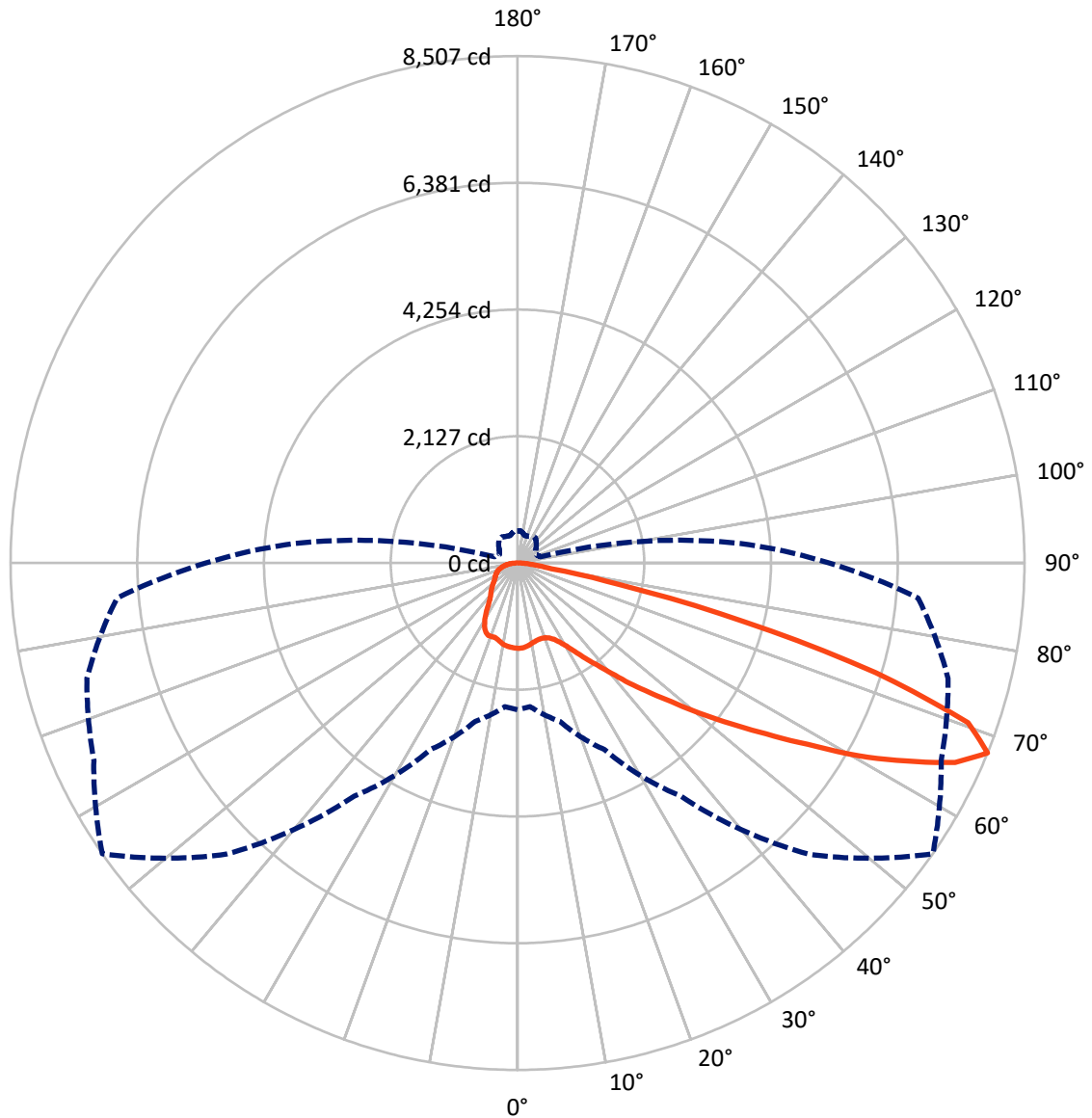


Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P266707

CATALOG NUMBER: GAN-AF-02-LED-U-T3-7027-1200-ADJ

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



REPORT NUMBER: P266707

CATALOG NUMBER: GAN-AF-02-LED-U-T3-7027-1200-ADJ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2508.0 | 0.0 | 2508.0 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 9102.0 | 0.0 | 9102.0 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 11610.0 | 0.0 | 11610.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 133.6 | 1.2 |
| 10°-20° | 378.4 | 3.3 |
| 20°-30° | 634.0 | 5.5 |
| 30°-40° | 1042.5 | 9.0 |
| 40°-50° | 1754.8 | 15.1 |
| 50°-60° | 2762.0 | 23.8 |
| 60°-70° | 3296.2 | 28.4 |
| 70°-80° | 1415.4 | 12.2 |
| 80°-90° | 193.0 | 1.7 |
| 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° | 11610.0 | 100.0 |
| 0°-180° | 11610.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P266707

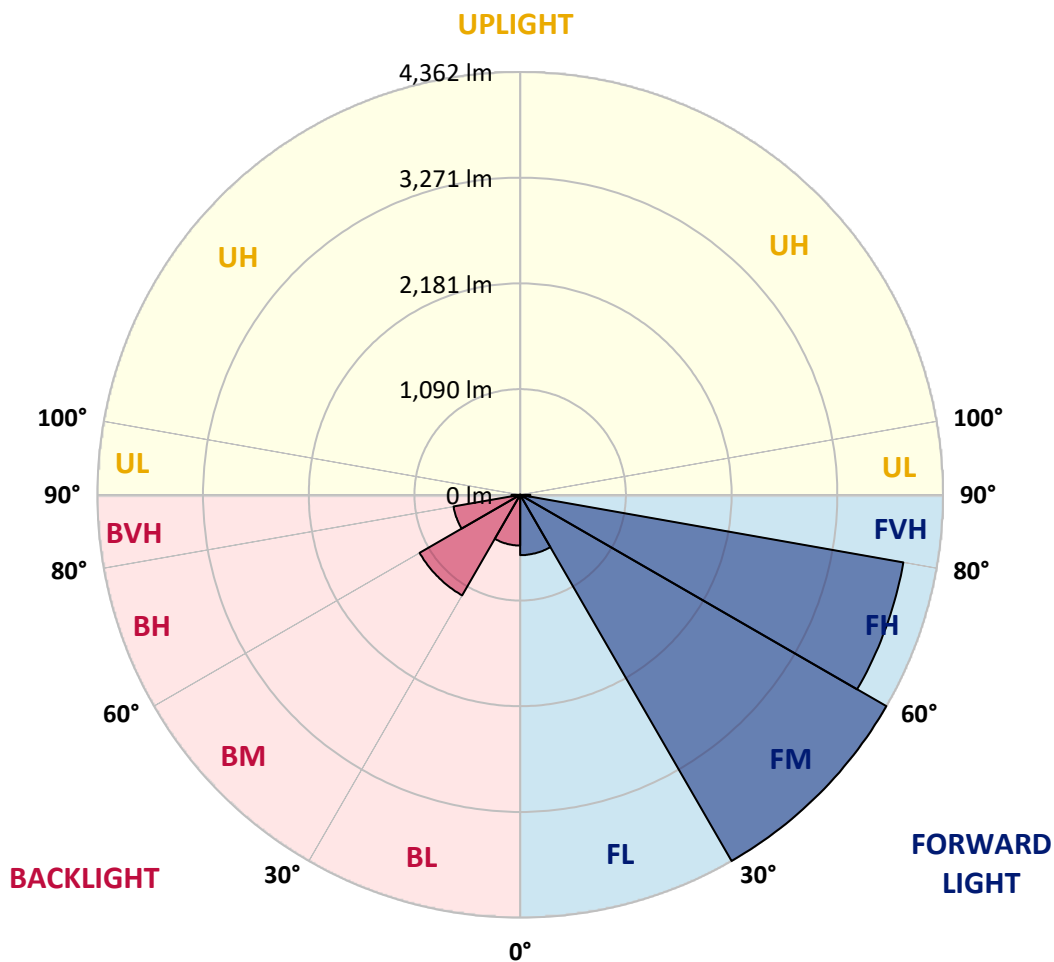
CATALOG NUMBER: GAN-AF-02-LED-U-T3-7027-1200-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 622.3 | 5.4 | | | |
| FM (30°-60°) | 4361.6 | 37.6 | | | |
| FH (60°-80°) | 4013.6 | 34.6 | | | G2/5000 |
| FVH (80°-90°) | 104.5 | 0.9 | | | G2/225 |
| BL (0°-30°) | 523.7 | 4.5 | B2/1000 | | |
| BM (30°-60°) | 1197.8 | 10.3 | B2/2500 | | |
| BH (60°-80°) | 698.0 | 6.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 88.5 | 0.8 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short





REPORT NUMBER: P266707

CATALOG NUMBER: GAN-AF-02-LED-U-T3-7027-1200-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 |
| 2.5° | 1419.3 | 1419.9 | 1420.9 | 1425.5 | 1429.5 | 1428.2 | 1428.8 | 1426.6 | 1426.0 | 1422.6 | 1426.0 |
| 5° | 1401.4 | 1403.1 | 1403.6 | 1410.9 | 1415.4 | 1416.4 | 1414.8 | 1412.0 | 1408.6 | 1405.3 | 1406.9 |
| 7.5° | 1360.5 | 1365.0 | 1365.5 | 1375.6 | 1382.9 | 1392.5 | 1392.9 | 1393.5 | 1391.8 | 1389.6 | 1392.9 |
| 10° | 1334.6 | 1335.7 | 1335.2 | 1342.4 | 1348.0 | 1358.7 | 1365.0 | 1375.6 | 1380.1 | 1381.1 | 1383.4 |
| 12.5° | 1332.9 | 1331.7 | 1330.1 | 1330.1 | 1328.5 | 1332.9 | 1344.1 | 1359.2 | 1369.9 | 1373.2 | 1376.2 |
| 15° | 1351.0 | 1350.3 | 1344.8 | 1336.3 | 1325.7 | 1322.2 | 1331.7 | 1348.6 | 1362.6 | 1369.9 | 1372.8 |
| 17.5° | 1391.2 | 1387.9 | 1378.9 | 1359.9 | 1336.9 | 1327.9 | 1329.0 | 1343.1 | 1359.2 | 1368.8 | 1371.6 |
| 20° | 1465.2 | 1465.2 | 1446.2 | 1410.2 | 1369.3 | 1348.0 | 1337.9 | 1346.4 | 1362.1 | 1374.9 | 1378.9 |
| 22.5° | 1593.1 | 1594.2 | 1562.3 | 1503.5 | 1434.5 | 1389.0 | 1363.7 | 1362.1 | 1380.7 | 1395.2 | 1399.6 |
| 25° | 1774.2 | 1769.8 | 1724.9 | 1640.8 | 1535.9 | 1460.9 | 1417.0 | 1406.9 | 1422.6 | 1438.9 | 1444.6 |
| 27.5° | 1985.2 | 1968.8 | 1915.5 | 1814.0 | 1678.4 | 1568.5 | 1501.2 | 1484.9 | 1500.0 | 1518.6 | 1524.2 |
| 30° | 2193.8 | 2177.0 | 2113.5 | 2002.5 | 1851.6 | 1712.6 | 1616.1 | 1589.8 | 1611.1 | 1637.4 | 1640.8 |
| 32.5° | 2402.2 | 2402.2 | 2331.7 | 2202.1 | 2037.8 | 1884.7 | 1769.2 | 1737.9 | 1773.2 | 1805.1 | 1812.4 |
| 35° | 2651.8 | 2653.0 | 2584.6 | 2428.7 | 2252.1 | 2089.9 | 1962.6 | 1939.7 | 1993.0 | 2015.3 | 2032.8 |
| 37.5° | 2958.6 | 2964.8 | 2876.7 | 2688.3 | 2494.9 | 2324.4 | 2173.0 | 2141.6 | 2194.7 | 2256.0 | 2312.1 |
| 40° | 3290.0 | 3297.9 | 3200.8 | 2968.7 | 2775.3 | 2596.9 | 2433.1 | 2376.6 | 2465.0 | 2581.8 | 2654.1 |
| 42.5° | 3606.2 | 3646.7 | 3552.9 | 3314.1 | 3106.1 | 2921.6 | 2755.6 | 2673.1 | 2784.1 | 2960.3 | 3023.1 |
| 45° | 4063.4 | 4092.5 | 3929.2 | 3712.9 | 3517.1 | 3310.8 | 3091.0 | 3004.0 | 3159.3 | 3381.4 | 3394.3 |
| 47.5° | 4367.7 | 4345.9 | 4262.9 | 4128.3 | 4004.5 | 3811.5 | 3480.7 | 3385.4 | 3591.8 | 3853.0 | 3780.6 |
| 50° | 4529.9 | 4536.6 | 4525.4 | 4533.2 | 4537.7 | 4416.5 | 3958.4 | 3827.8 | 4074.0 | 4389.7 | 4223.1 |
| 52.5° | 4681.2 | 4636.4 | 4673.4 | 4857.3 | 5079.3 | 5034.6 | 4478.3 | 4342.0 | 4591.0 | 4985.2 | 4690.8 |
| 55° | 4678.0 | 4609.6 | 4730.0 | 5054.8 | 5536.4 | 5588.0 | 5061.9 | 4905.0 | 5137.8 | 5623.8 | 5186.5 |
| 57.5° | 4512.5 | 4515.8 | 4701.5 | 5126.4 | 5855.0 | 6108.5 | 5739.5 | 5503.9 | 5717.5 | 6271.1 | 5639.0 |
| 60° | 4284.8 | 4315.6 | 4583.2 | 5114.7 | 6110.1 | 6535.2 | 6570.6 | 6149.3 | 6285.6 | 6859.3 | 6013.7 |
| 62.5° | 3917.5 | 3950.0 | 4319.1 | 4992.5 | 6071.5 | 6946.2 | 7321.9 | 6881.7 | 6879.5 | 7215.9 | 6123.6 |
| 65° | 3338.2 | 3328.7 | 3716.2 | 4535.5 | 5746.6 | 7250.1 | 8068.2 | 7514.9 | 7326.9 | 7221.6 | 5902.7 |
| 67.5° | 2461.7 | 2419.1 | 2751.7 | 3454.3 | 4776.6 | 6909.8 | 8507.4 | 7844.5 | 7479.5 | 6746.6 | 5227.4 |
| 70° | 1277.4 | 1234.8 | 1503.9 | 2017.1 | 3141.5 | 5392.9 | 8021.1 | 7674.1 | 7142.5 | 5655.3 | 4095.3 |
| 72.5° | 546.2 | 539.0 | 648.2 | 884.9 | 1519.7 | 3110.7 | 6289.6 | 6642.2 | 6128.5 | 4213.6 | 2815.6 |
| 75° | 367.2 | 365.0 | 406.0 | 482.3 | 683.6 | 1262.3 | 3936.1 | 4714.9 | 4483.9 | 2612.6 | 1583.6 |
| 77.5° | 288.3 | 285.4 | 309.6 | 346.6 | 443.0 | 498.0 | 1746.8 | 2531.3 | 2342.9 | 1137.3 | 693.1 |
| 80° | 225.5 | 223.1 | 238.3 | 258.5 | 318.4 | 314.0 | 574.7 | 1007.1 | 779.5 | 435.7 | 337.0 |
| 82.5° | 177.8 | 177.8 | 190.1 | 190.7 | 226.1 | 214.2 | 300.0 | 443.6 | 389.1 | 254.0 | 206.4 |
| 85° | 162.7 | 162.7 | 175.4 | 142.4 | 147.5 | 135.1 | 186.2 | 263.1 | 246.8 | 104.4 | 89.7 |
| 87.5° | 81.8 | 79.6 | 147.5 | 126.2 | 80.2 | 71.8 | 90.9 | 127.3 | 136.8 | 57.8 | 44.8 |
| 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: P266707

CATALOG NUMBER: GAN-AF-02-LED-U-T3-7027-1200-ADJ

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 | 1431.5 |
| 2.5° | 1424.9 | 1424.4 | 1425.5 | 1426.0 | 1430.6 | 1436.7 | 1439.4 | 1443.3 | 1445.6 | 1444.6 |
| 5° | 1408.1 | 1409.3 | 1413.8 | 1417.0 | 1424.9 | 1435.0 | 1440.6 | 1445.2 | 1449.1 | 1447.3 |
| 7.5° | 1394.1 | 1396.9 | 1403.6 | 1406.3 | 1410.9 | 1413.8 | 1413.2 | 1414.8 | 1418.2 | 1414.2 |
| 10° | 1386.3 | 1389.6 | 1394.6 | 1390.7 | 1380.1 | 1365.0 | 1351.0 | 1343.5 | 1345.8 | 1343.1 |
| 12.5° | 1378.4 | 1382.9 | 1378.9 | 1360.5 | 1330.7 | 1311.0 | 1300.4 | 1301.6 | 1306.6 | 1307.8 |
| 15° | 1373.9 | 1375.6 | 1358.7 | 1323.9 | 1293.6 | 1290.9 | 1296.6 | 1295.4 | 1296.0 | 1296.0 |
| 17.5° | 1373.9 | 1369.3 | 1337.9 | 1303.3 | 1290.3 | 1285.3 | 1267.9 | 1245.9 | 1236.4 | 1233.2 |
| 20° | 1381.1 | 1369.3 | 1331.3 | 1308.2 | 1280.3 | 1237.1 | 1191.1 | 1150.6 | 1132.8 | 1127.7 |
| 22.5° | 1403.1 | 1382.9 | 1350.3 | 1310.4 | 1230.9 | 1158.5 | 1085.6 | 1037.5 | 1004.9 | 999.3 |
| 25° | 1447.3 | 1424.9 | 1387.9 | 1280.9 | 1152.3 | 1049.2 | 966.1 | 912.4 | 879.8 | 875.4 |
| 27.5° | 1524.8 | 1510.1 | 1408.1 | 1215.1 | 1048.1 | 937.7 | 860.8 | 819.3 | 795.2 | 793.6 |
| 30° | 1641.4 | 1634.0 | 1398.0 | 1118.2 | 919.7 | 829.3 | 792.3 | 768.2 | 750.4 | 749.7 |
| 32.5° | 1827.5 | 1768.7 | 1365.0 | 999.9 | 802.5 | 752.5 | 737.4 | 722.9 | 708.9 | 708.9 |
| 35° | 2067.0 | 1877.5 | 1302.2 | 873.2 | 731.2 | 709.9 | 690.8 | 667.9 | 649.4 | 648.2 |
| 37.5° | 2348.4 | 1944.7 | 1189.4 | 771.0 | 697.7 | 681.4 | 653.2 | 619.1 | 586.6 | 580.9 |
| 40° | 2632.8 | 1965.0 | 1030.6 | 708.3 | 676.2 | 652.7 | 618.6 | 578.1 | 546.8 | 545.0 |
| 42.5° | 2893.5 | 1926.2 | 862.5 | 665.0 | 655.0 | 623.6 | 587.8 | 551.7 | 527.1 | 526.5 |
| 45° | 3112.3 | 1825.8 | 721.2 | 624.1 | 632.5 | 597.3 | 565.3 | 536.1 | 517.1 | 513.1 |
| 47.5° | 3318.1 | 1684.1 | 621.8 | 580.9 | 610.0 | 582.6 | 555.7 | 528.3 | 509.8 | 507.0 |
| 50° | 3556.8 | 1530.9 | 552.4 | 539.0 | 590.5 | 577.6 | 563.5 | 535.0 | 504.0 | 500.7 |
| 52.5° | 3846.4 | 1398.5 | 498.0 | 502.0 | 575.4 | 584.3 | 583.8 | 554.1 | 500.1 | 495.8 |
| 55° | 4169.4 | 1251.6 | 457.0 | 471.6 | 569.2 | 596.7 | 588.7 | 572.0 | 503.6 | 496.9 |
| 57.5° | 4487.3 | 1080.0 | 428.4 | 448.7 | 560.3 | 595.5 | 564.7 | 540.6 | 511.5 | 502.0 |
| 60° | 4725.5 | 849.5 | 406.6 | 428.4 | 540.6 | 577.0 | 538.4 | 506.4 | 509.8 | 502.4 |
| 62.5° | 4741.3 | 656.7 | 380.3 | 411.1 | 510.9 | 558.6 | 520.9 | 491.3 | 517.1 | 510.2 |
| 65° | 4462.6 | 496.3 | 355.0 | 390.4 | 478.8 | 546.8 | 504.0 | 482.7 | 532.2 | 524.9 |
| 67.5° | 3757.2 | 399.2 | 333.7 | 368.9 | 446.9 | 522.0 | 488.9 | 474.9 | 545.6 | 532.8 |
| 70° | 2712.4 | 340.4 | 312.9 | 343.2 | 418.3 | 494.1 | 475.6 | 460.9 | 509.2 | 488.9 |
| 72.5° | 1669.9 | 295.0 | 289.3 | 308.9 | 396.4 | 464.9 | 455.4 | 434.6 | 458.8 | 442.4 |
| 75° | 833.8 | 255.7 | 263.1 | 275.3 | 365.6 | 431.7 | 421.8 | 401.0 | 404.2 | 401.0 |
| 77.5° | 399.2 | 218.6 | 232.1 | 241.6 | 325.8 | 394.3 | 383.5 | 362.2 | 358.3 | 359.0 |
| 80° | 253.0 | 182.8 | 195.7 | 202.5 | 291.1 | 350.5 | 339.7 | 318.4 | 363.4 | 337.0 |
| 82.5° | 158.1 | 148.6 | 152.0 | 164.3 | 253.4 | 305.1 | 291.1 | 271.9 | 327.5 | 259.2 |
| 85° | 87.5 | 103.8 | 108.2 | 118.8 | 195.1 | 255.2 | 241.1 | 217.0 | 194.7 | 191.2 |
| 87.5° | 52.1 | 61.7 | 63.4 | 71.2 | 131.2 | 184.5 | 163.2 | 154.8 | 128.4 | 127.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)