

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: P268390

Luminaire Tested: **GAN-AF-03-LED-U-T3R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268390
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-03-LED-U-T3R-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 10636.3 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

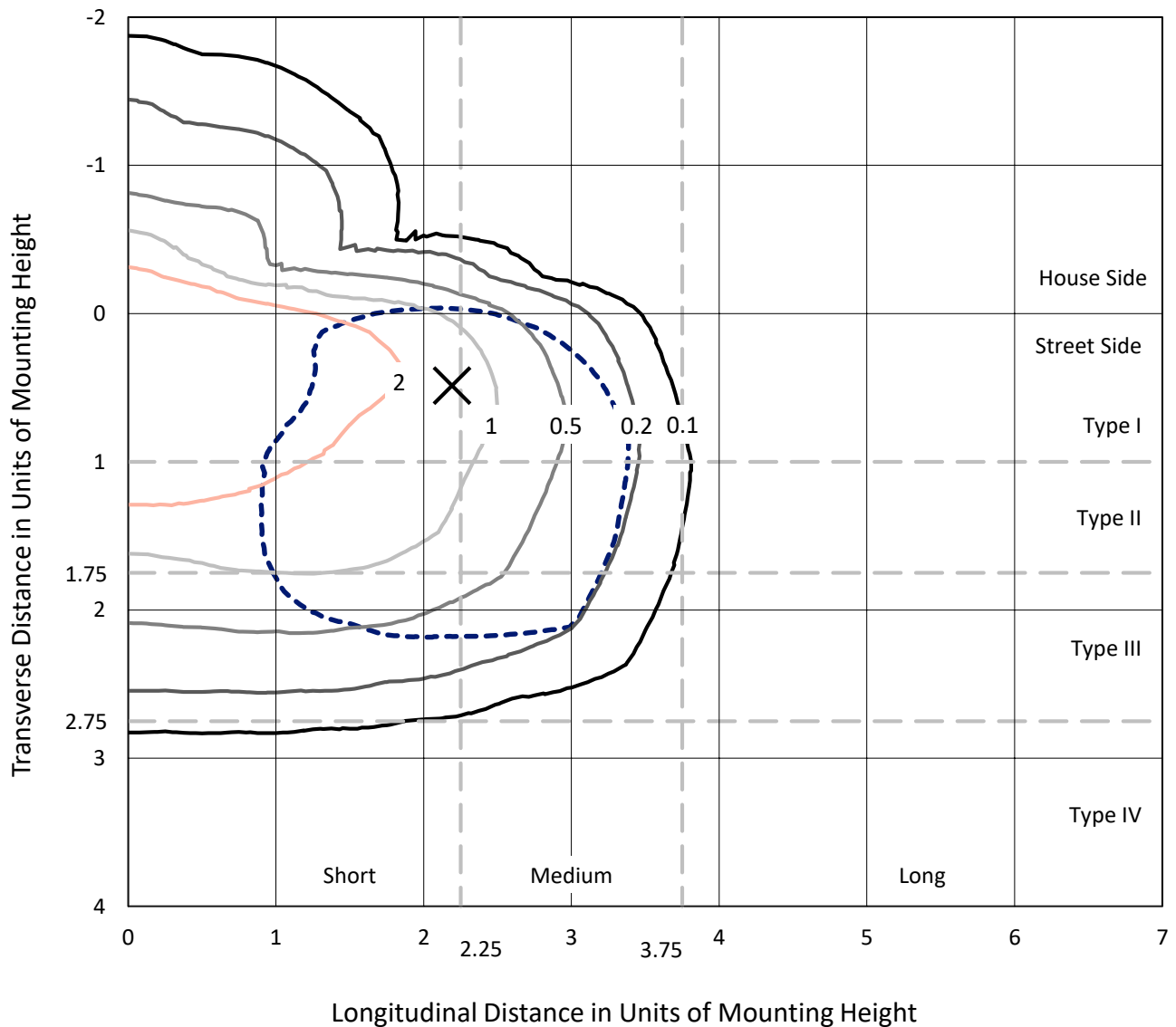
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

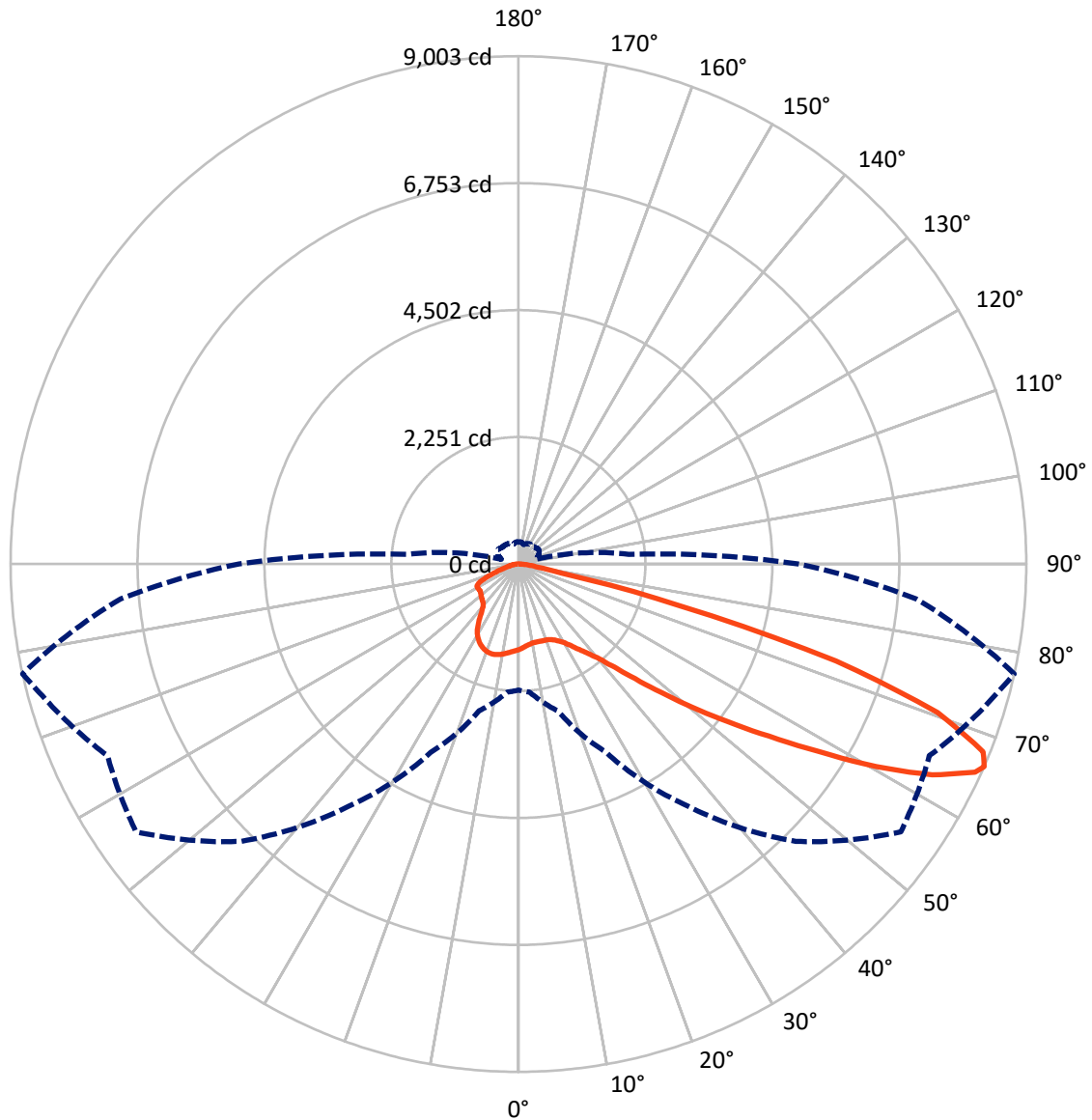
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - Full Cutoff

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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 | 1817.1 | 0.0 | 1817.1 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 8819.2 | 0.0 | 8819.2 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 10636.3 | 0.0 | 10636.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 135.4 | 1.3 |
| 10°-20° | 382.0 | 3.6 |
| 20°-30° | 652.0 | 6.1 |
| 30°-40° | 1043.7 | 9.8 |
| 40°-50° | 1612.5 | 15.2 |
| 50°-60° | 2287.1 | 21.5 |
| 60°-70° | 3059.5 | 28.8 |
| 70°-80° | 1328.7 | 12.5 |
| 80°-90° | 135.5 | 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° | 10636.3 | 100.0 |
| 0°-180° | 10636.3 | 100.0 |

Coefficient of Utilization



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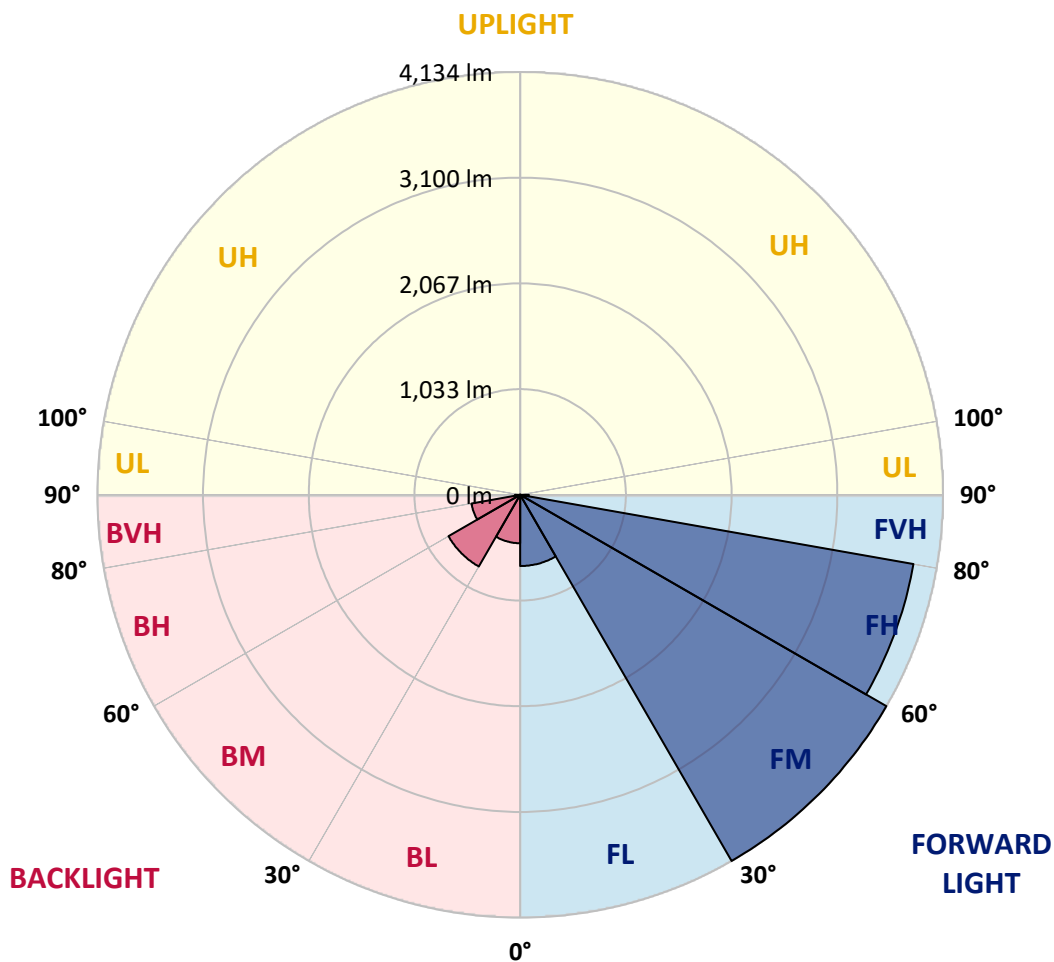
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 696.2 | 6.5 | | | |
| FM | (30°-60°) | 4133.8 | 38.9 | | | |
| FH | (60°-80°) | 3904.2 | 36.7 | | | G2/5000 |
| FVH | (80°-90°) | 85.0 | 0.8 | | | G1/100 |
| BL | (0°-30°) | 473.3 | 4.4 | B1/500 | | |
| BM | (30°-60°) | 809.4 | 7.6 | B1/1000 | | |
| BH | (60°-80°) | 483.9 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 50.5 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77.5° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1515.7 | 1515.7 | 1515.7 | 1515.7 | 1515.7 | 1515.7 | 1515.7 | 1515.7 | 1515.7 | 1515.7 | 1515.7 |
| 2.5° | 1340.8 | 1349.9 | 1357.3 | 1364.4 | 1378.4 | 1401.6 | 1428.2 | 1449.9 | 1481.0 | 1487.1 | 1503.7 |
| 5° | 1217.7 | 1217.7 | 1223.8 | 1234.4 | 1253.3 | 1288.1 | 1324.2 | 1372.5 | 1440.3 | 1456.4 | 1500.7 |
| 7.5° | 1157.8 | 1158.5 | 1161.9 | 1171.0 | 1187.6 | 1219.2 | 1259.0 | 1315.7 | 1407.6 | 1434.4 | 1509.7 |
| 10° | 1180.1 | 1175.1 | 1167.4 | 1162.9 | 1165.5 | 1184.1 | 1221.8 | 1285.0 | 1387.6 | 1421.7 | 1529.9 |
| 12.5° | 1303.6 | 1294.1 | 1268.0 | 1233.4 | 1200.1 | 1186.5 | 1208.7 | 1270.5 | 1379.0 | 1418.8 | 1556.5 |
| 15° | 1505.6 | 1501.6 | 1452.9 | 1381.1 | 1300.7 | 1233.4 | 1218.2 | 1265.0 | 1380.1 | 1422.2 | 1588.2 |
| 17.5° | 1759.1 | 1753.4 | 1689.2 | 1584.6 | 1453.4 | 1322.2 | 1251.9 | 1269.5 | 1383.6 | 1428.2 | 1618.7 |
| 20° | 2014.8 | 1997.7 | 1928.3 | 1803.6 | 1635.4 | 1443.3 | 1307.7 | 1281.1 | 1388.2 | 1434.9 | 1650.9 |
| 22.5° | 2205.8 | 2191.7 | 2129.3 | 2008.3 | 1814.2 | 1583.5 | 1382.5 | 1301.1 | 1402.7 | 1453.8 | 1690.6 |
| 25° | 2373.6 | 2374.6 | 2312.7 | 2195.6 | 1995.1 | 1732.3 | 1479.0 | 1355.0 | 1439.9 | 1493.2 | 1744.9 |
| 27.5° | 2581.2 | 2569.2 | 2511.3 | 2395.2 | 2174.1 | 1882.6 | 1595.6 | 1428.8 | 1495.0 | 1548.9 | 1816.3 |
| 30° | 2829.4 | 2820.9 | 2754.1 | 2622.3 | 2372.7 | 2044.0 | 1728.8 | 1514.7 | 1566.5 | 1622.2 | 1909.7 |
| 32.5° | 3121.4 | 3117.4 | 3047.9 | 2878.7 | 2601.9 | 2233.8 | 1885.2 | 1628.3 | 1673.1 | 1730.9 | 2044.0 |
| 35° | 3464.1 | 3464.7 | 3382.7 | 3179.2 | 2852.6 | 2455.0 | 2062.5 | 1774.5 | 1802.7 | 1862.9 | 2203.7 |
| 37.5° | 3675.2 | 3700.8 | 3670.2 | 3462.6 | 3136.5 | 2702.3 | 2292.7 | 1968.5 | 1950.4 | 2011.2 | 2375.1 |
| 40° | 3720.5 | 3751.6 | 3848.6 | 3743.1 | 3454.2 | 2974.6 | 2496.7 | 2154.9 | 2132.3 | 2206.7 | 2595.7 |
| 42.5° | 3657.1 | 3700.4 | 3905.4 | 3979.9 | 3791.3 | 3310.3 | 2771.1 | 2431.9 | 2403.2 | 2503.2 | 2870.2 |
| 45° | 3619.5 | 3651.6 | 3888.9 | 4102.9 | 4083.9 | 3689.8 | 3120.4 | 2779.6 | 2769.1 | 2900.3 | 3186.7 |
| 47.5° | 3554.1 | 3583.2 | 3811.4 | 4131.6 | 4255.7 | 4037.6 | 3540.0 | 3204.9 | 3225.5 | 3397.3 | 3544.1 |
| 50° | 3589.3 | 3601.3 | 3725.0 | 4058.7 | 4305.4 | 4292.5 | 4009.0 | 3697.3 | 3767.8 | 3982.2 | 3948.6 |
| 52.5° | 3584.2 | 3615.4 | 3714.9 | 3939.1 | 4312.0 | 4449.7 | 4470.8 | 4246.6 | 4394.9 | 4641.2 | 4397.5 |
| 55° | 2897.8 | 2955.1 | 3596.9 | 3909.0 | 4335.1 | 4604.0 | 4881.8 | 4825.5 | 5102.1 | 5388.9 | 4903.9 |
| 57.5° | 2767.0 | 2803.3 | 3159.1 | 3972.2 | 4457.7 | 4898.5 | 5339.3 | 5462.9 | 5925.2 | 6258.4 | 5521.2 |
| 60° | 2741.4 | 2786.3 | 3154.6 | 4049.6 | 4706.5 | 5378.4 | 6017.1 | 6234.2 | 6926.8 | 7291.6 | 6236.8 |
| 62.5° | 2661.6 | 2709.7 | 3124.9 | 4039.6 | 5059.9 | 6042.3 | 6885.1 | 7054.5 | 7876.7 | 8231.4 | 6835.4 |
| 65° | 2408.3 | 2453.5 | 2883.2 | 3877.3 | 5298.1 | 6750.9 | 7912.4 | 7806.4 | 8626.5 | 8893.3 | 7133.9 |
| 66° | 2235.0 | 2279.1 | 2692.7 | 3686.3 | 5242.7 | 6952.0 | 8276.2 | 8039.0 | 8794.3 | 9003.4 | 7075.6 |
| 67.5° | 1917.8 | 1952.5 | 2322.8 | 3258.6 | 4948.8 | 7008.2 | 8582.2 | 8213.8 | 8812.0 | 8885.8 | 6742.4 |
| 70° | 1211.6 | 1221.8 | 1509.7 | 2249.4 | 3746.1 | 6078.0 | 8116.4 | 7779.6 | 8085.3 | 7885.2 | 5652.3 |
| 72.5° | 525.7 | 522.2 | 724.8 | 1144.4 | 2120.8 | 4078.2 | 6565.4 | 6419.2 | 6342.4 | 5886.1 | 3956.7 |
| 75° | 292.5 | 296.5 | 376.4 | 531.2 | 862.0 | 2003.2 | 4294.8 | 4109.9 | 3470.2 | 2961.2 | 1794.2 |
| 77.5° | 234.6 | 240.2 | 312.2 | 376.8 | 387.0 | 698.5 | 2009.8 | 1635.4 | 984.5 | 790.0 | 498.5 |
| 80° | 185.4 | 195.6 | 272.4 | 293.4 | 260.9 | 287.9 | 649.4 | 519.1 | 389.4 | 357.3 | 258.4 |
| 82.5° | 146.8 | 153.8 | 233.6 | 222.2 | 182.4 | 193.9 | 311.2 | 303.1 | 253.3 | 230.7 | 149.3 |
| 85° | 105.6 | 118.5 | 192.0 | 167.4 | 119.7 | 130.7 | 206.5 | 197.9 | 145.3 | 118.5 | 65.8 |
| 87.5° | 43.2 | 56.2 | 135.7 | 111.1 | 66.8 | 60.8 | 103.0 | 96.9 | 68.8 | 50.2 | 32.7 |
| 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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CATALOG NUMBER: GAN-AF-03-LED-U-T3R-7027-600

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1515.7 | 1515.7 | 1515.7 | 1515.7 | 1515.7 | 1515.7 | 1515.7 | 1515.7 | 1515.7 | 1515.7 | 1515.7 |
| 2.5° | 1514.3 | 1526.3 | 1541.9 | 1551.5 | 1556.5 | 1559.9 | 1565.4 | 1564.9 | 1566.5 | 1567.1 | 1569.0 |
| 5° | 1524.2 | 1544.4 | 1567.1 | 1573.0 | 1573.0 | 1567.5 | 1562.0 | 1552.9 | 1549.3 | 1548.4 | 1549.3 |
| 7.5° | 1550.5 | 1572.6 | 1592.2 | 1585.1 | 1570.0 | 1547.9 | 1519.3 | 1494.2 | 1480.5 | 1476.1 | 1474.9 |
| 10° | 1583.5 | 1610.2 | 1618.2 | 1591.5 | 1547.4 | 1494.2 | 1437.3 | 1396.1 | 1372.5 | 1366.0 | 1363.9 |
| 12.5° | 1623.7 | 1648.8 | 1637.9 | 1581.6 | 1499.6 | 1413.8 | 1335.3 | 1269.5 | 1220.2 | 1204.6 | 1203.5 |
| 15° | 1668.1 | 1687.6 | 1648.8 | 1550.5 | 1428.2 | 1301.6 | 1161.9 | 1048.3 | 987.1 | 967.5 | 965.9 |
| 17.5° | 1709.2 | 1719.3 | 1642.5 | 1496.1 | 1323.3 | 1118.2 | 932.8 | 845.3 | 824.3 | 829.2 | 830.3 |
| 20° | 1744.4 | 1744.4 | 1620.3 | 1418.2 | 1157.8 | 876.4 | 759.3 | 757.9 | 772.9 | 788.1 | 791.0 |
| 22.5° | 1783.0 | 1760.0 | 1581.6 | 1308.1 | 923.6 | 717.1 | 700.0 | 714.2 | 731.2 | 747.7 | 750.4 |
| 25° | 1830.8 | 1772.5 | 1527.7 | 1141.3 | 726.2 | 651.4 | 657.9 | 669.3 | 678.0 | 688.6 | 690.0 |
| 27.5° | 1884.1 | 1788.6 | 1457.0 | 911.6 | 630.3 | 610.0 | 615.1 | 619.1 | 618.2 | 622.2 | 623.2 |
| 30° | 1948.0 | 1807.2 | 1359.9 | 712.6 | 590.5 | 574.9 | 565.9 | 562.3 | 562.3 | 568.8 | 571.4 |
| 32.5° | 2033.4 | 1834.9 | 1220.7 | 610.6 | 571.4 | 549.9 | 520.7 | 507.6 | 512.7 | 534.8 | 539.7 |
| 35° | 2127.4 | 1864.5 | 1032.2 | 576.0 | 567.4 | 538.3 | 493.0 | 468.8 | 469.4 | 489.9 | 496.6 |
| 37.5° | 2229.9 | 1902.3 | 825.7 | 569.3 | 576.4 | 538.8 | 478.4 | 445.3 | 431.6 | 431.6 | 434.2 |
| 40° | 2361.0 | 1940.9 | 668.3 | 573.9 | 595.5 | 544.8 | 470.9 | 426.6 | 388.4 | 389.4 | 391.5 |
| 42.5° | 2532.0 | 1974.0 | 584.0 | 583.4 | 618.7 | 552.7 | 470.4 | 402.0 | 368.8 | 391.5 | 412.1 |
| 45° | 2721.9 | 1990.6 | 546.8 | 592.1 | 637.3 | 557.8 | 462.4 | 397.9 | 371.4 | 438.7 | 478.0 |
| 47.5° | 2940.5 | 1981.1 | 526.1 | 595.0 | 641.7 | 557.8 | 453.4 | 407.7 | 389.0 | 508.1 | 553.9 |
| 50° | 3180.2 | 1953.5 | 506.0 | 589.0 | 640.2 | 556.8 | 461.9 | 417.2 | 395.6 | 520.2 | 551.7 |
| 52.5° | 3462.2 | 1930.4 | 484.9 | 576.0 | 629.7 | 551.3 | 471.9 | 413.1 | 375.0 | 472.9 | 495.1 |
| 55° | 3783.8 | 1936.8 | 461.4 | 557.4 | 613.2 | 540.8 | 468.3 | 397.1 | 353.4 | 416.6 | 430.2 |
| 57.5° | 4194.8 | 2014.8 | 433.3 | 533.8 | 590.5 | 523.2 | 455.8 | 389.4 | 346.7 | 377.9 | 385.9 |
| 60° | 4653.7 | 2150.5 | 397.9 | 510.1 | 562.3 | 495.1 | 446.3 | 393.0 | 349.8 | 375.0 | 378.9 |
| 62.5° | 4990.4 | 2229.4 | 367.9 | 475.5 | 524.3 | 463.9 | 434.2 | 397.5 | 357.9 | 385.5 | 384.5 |
| 65° | 5081.9 | 2099.7 | 330.1 | 424.7 | 472.4 | 431.1 | 419.1 | 402.5 | 361.4 | 393.9 | 389.4 |
| 66° | 4953.8 | 1960.0 | 313.6 | 401.1 | 446.3 | 415.0 | 411.7 | 402.0 | 359.9 | 395.1 | 387.4 |
| 67.5° | 4642.7 | 1673.5 | 284.9 | 366.4 | 404.5 | 391.0 | 399.6 | 397.5 | 355.8 | 393.9 | 383.4 |
| 70° | 3786.3 | 1141.8 | 243.7 | 305.1 | 336.8 | 344.2 | 376.4 | 381.4 | 342.8 | 376.4 | 353.4 |
| 72.5° | 2645.5 | 695.6 | 215.7 | 236.8 | 272.4 | 293.4 | 344.8 | 359.3 | 325.1 | 328.7 | 306.5 |
| 75° | 1278.5 | 369.5 | 195.6 | 183.4 | 211.6 | 245.2 | 306.5 | 329.1 | 297.5 | 274.9 | 266.8 |
| 77.5° | 398.6 | 225.7 | 165.8 | 147.7 | 165.8 | 197.9 | 256.2 | 288.4 | 264.8 | 230.1 | 227.1 |
| 80° | 214.1 | 165.8 | 127.6 | 118.5 | 131.2 | 155.2 | 201.5 | 240.7 | 227.7 | 206.5 | 184.4 |
| 82.5° | 141.3 | 107.5 | 94.5 | 91.9 | 100.0 | 118.5 | 149.7 | 199.6 | 199.6 | 176.8 | 128.6 |
| 85° | 72.9 | 65.8 | 64.9 | 64.9 | 69.9 | 79.0 | 102.0 | 153.8 | 163.9 | 93.5 | 77.4 |
| 87.5° | 36.2 | 37.6 | 35.2 | 36.7 | 39.2 | 38.6 | 48.8 | 77.4 | 92.4 | 56.9 | 47.3 |
| 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)