

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: P268317

Luminaire Tested: **GAN-AF-02-LED-U-T4W-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10507.7 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

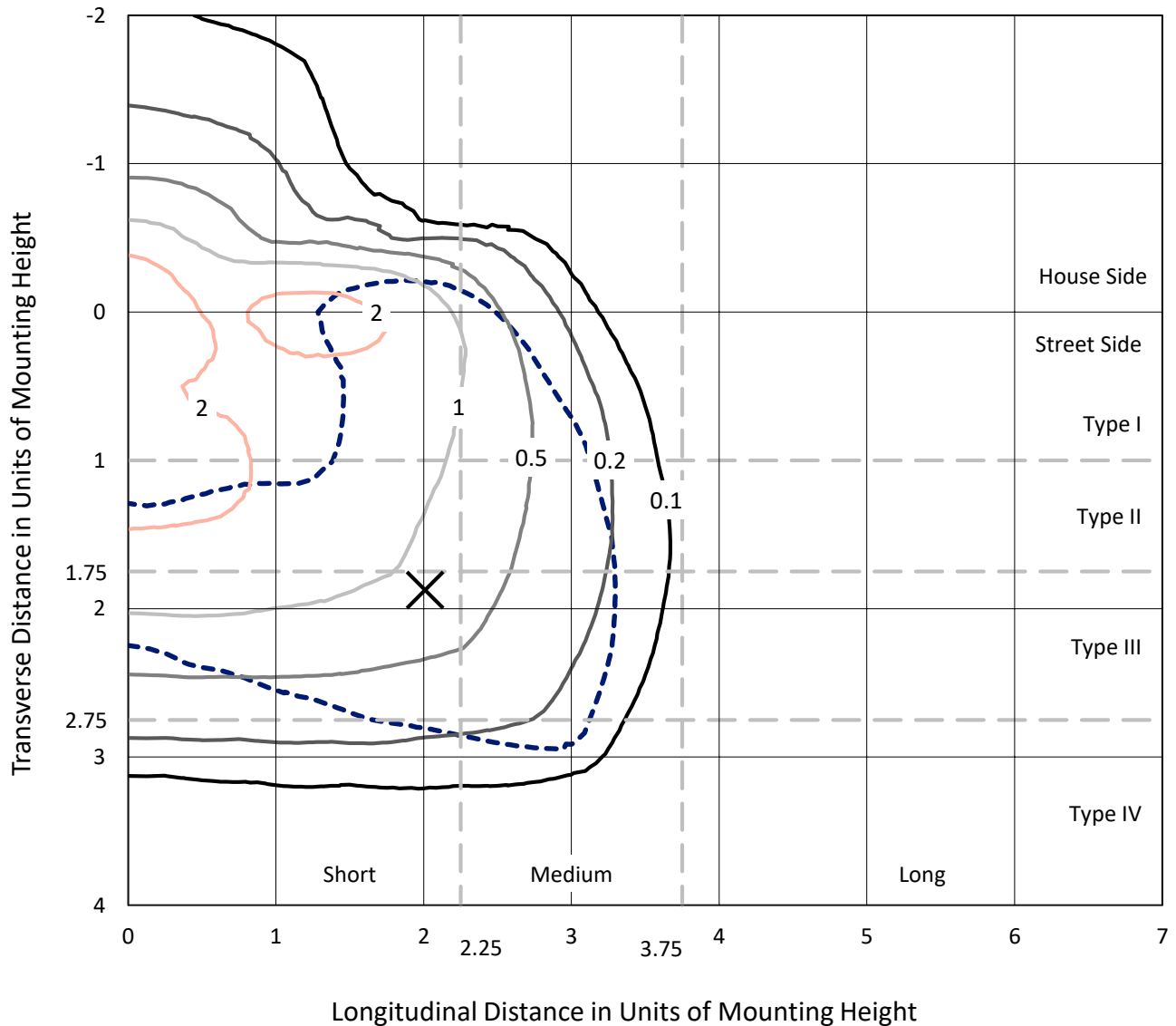
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

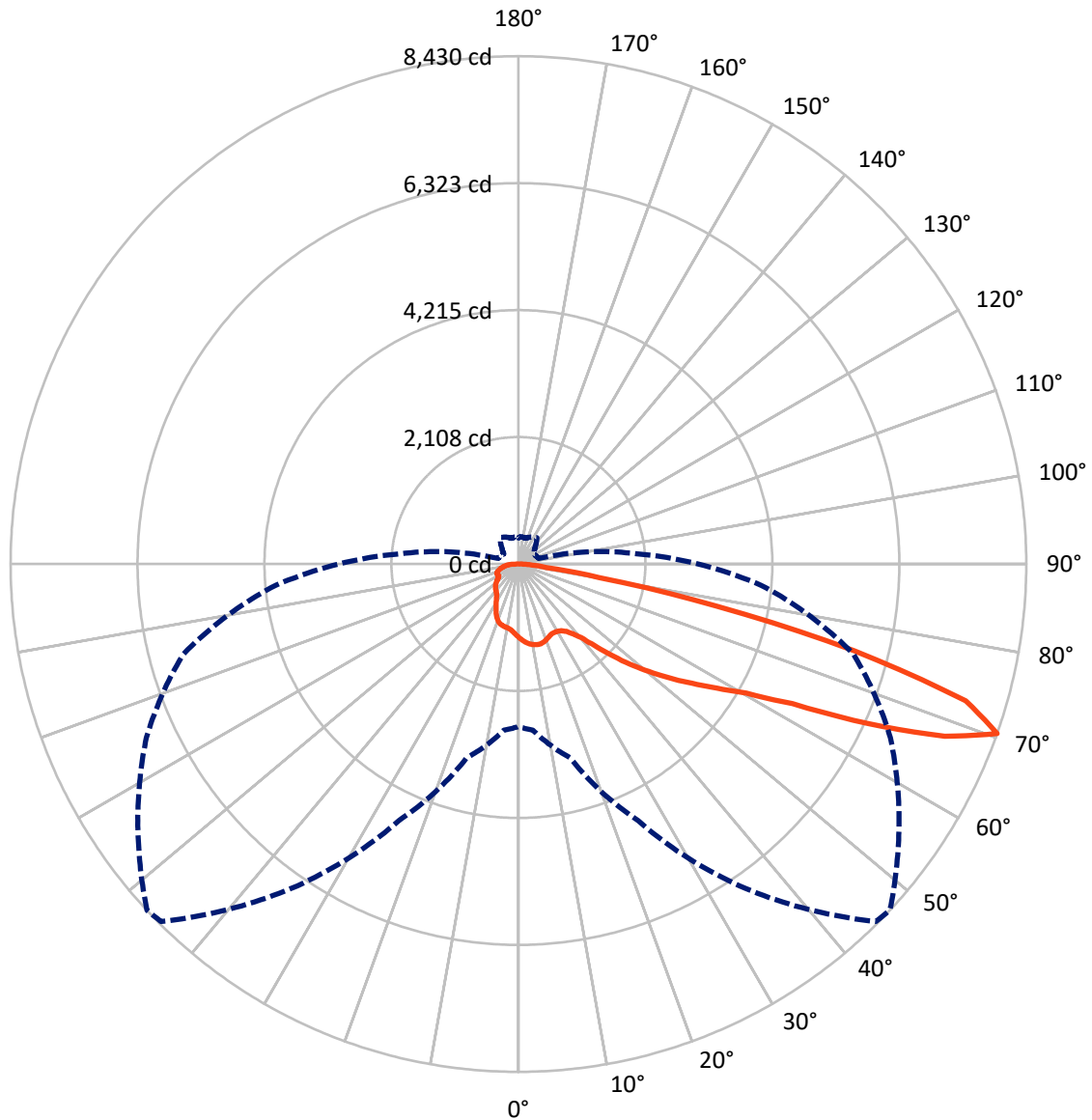
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2192.1 | 0.0 | 2192.1 |
| | % Fixture | 20.9 | 0.0 | 20.9 |
| Street Side | Lumens | 8315.6 | 0.0 | 8315.6 |
| | % Fixture | 79.1 | 0.0 | 79.1 |
| Total | Lumens | 10507.7 | 0.0 | 10507.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 116.8 | 1.1 |
| 10°-20° | 342.7 | 3.3 |
| 20°-30° | 506.1 | 4.8 |
| 30°-40° | 735.6 | 7.0 |
| 40°-50° | 1323.9 | 12.6 |
| 50°-60° | 2293.5 | 21.8 |
| 60°-70° | 3273.4 | 31.2 |
| 70°-80° | 1680.4 | 16.0 |
| 80°-90° | 235.3 | 2.2 |
| 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° | 10507.7 | 100.0 |
| 0°-180° | 10507.7 | 100.0 |

Coefficient of Utilization



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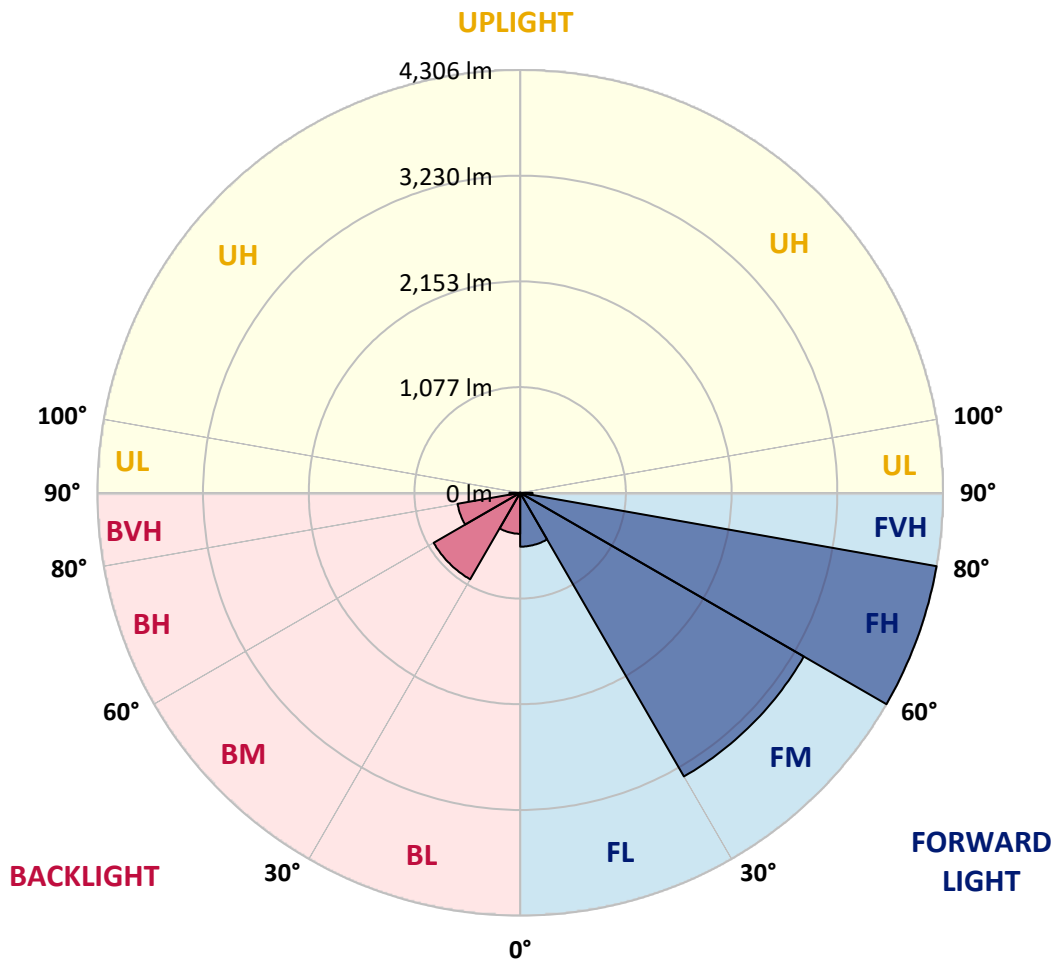
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 548.3 | 5.2 | | | |
| FM | (30°-60°) | 3335.4 | 31.7 | | | |
| FH | (60°-80°) | 4306.4 | 41.0 | | | G2/5000 |
| FVH | (80°-90°) | 125.5 | 1.2 | | | G2/225 |
| BL | (0°-30°) | 417.4 | 4.0 | B1/500 | | |
| BM | (30°-60°) | 1017.5 | 9.7 | B2/2500 | | |
| BH | (60°-80°) | 647.5 | 6.2 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 109.7 | 1.0 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1219.2 | 1219.2 | 1219.2 | 1219.2 | 1219.2 | 1219.2 | 1219.2 | 1219.2 | 1219.2 | 1219.2 | 1219.2 |
| 2.5° | 1290.8 | 1288.2 | 1287.2 | 1285.1 | 1282.6 | 1269.8 | 1267.2 | 1258.0 | 1245.3 | 1232.0 | 1218.2 |
| 5° | 1375.7 | 1375.1 | 1369.6 | 1359.2 | 1343.0 | 1314.8 | 1308.2 | 1285.7 | 1255.6 | 1226.4 | 1197.3 |
| 7.5° | 1450.4 | 1445.7 | 1435.0 | 1414.6 | 1385.8 | 1347.5 | 1338.4 | 1307.2 | 1265.7 | 1225.8 | 1186.5 |
| 10° | 1505.0 | 1502.4 | 1478.9 | 1450.9 | 1413.6 | 1371.1 | 1360.4 | 1325.5 | 1280.1 | 1229.4 | 1180.4 |
| 12.5° | 1536.2 | 1531.0 | 1503.9 | 1470.3 | 1425.8 | 1384.4 | 1373.6 | 1338.4 | 1287.2 | 1229.4 | 1171.7 |
| 15° | 1534.1 | 1530.5 | 1503.5 | 1466.7 | 1421.7 | 1385.4 | 1375.7 | 1340.5 | 1285.7 | 1224.3 | 1160.4 |
| 17.5° | 1493.3 | 1494.8 | 1471.8 | 1435.4 | 1398.7 | 1371.1 | 1362.4 | 1329.6 | 1275.5 | 1214.1 | 1147.1 |
| 20° | 1421.7 | 1428.8 | 1413.6 | 1381.2 | 1360.8 | 1341.9 | 1336.3 | 1308.7 | 1259.7 | 1199.2 | 1132.9 |
| 22.5° | 1350.2 | 1356.7 | 1350.6 | 1323.6 | 1320.5 | 1309.2 | 1306.1 | 1286.3 | 1245.8 | 1190.1 | 1124.1 |
| 25° | 1297.4 | 1303.6 | 1302.5 | 1279.0 | 1288.2 | 1287.7 | 1285.1 | 1275.5 | 1242.7 | 1190.1 | 1125.7 |
| 27.5° | 1283.0 | 1285.1 | 1283.0 | 1261.7 | 1274.4 | 1284.7 | 1282.6 | 1281.2 | 1252.0 | 1204.8 | 1145.1 |
| 30° | 1332.1 | 1329.1 | 1313.3 | 1269.8 | 1281.6 | 1296.0 | 1293.9 | 1294.8 | 1279.5 | 1243.8 | 1188.5 |
| 32.5° | 1527.9 | 1514.3 | 1464.1 | 1341.9 | 1310.7 | 1318.4 | 1319.4 | 1336.3 | 1338.8 | 1303.6 | 1256.0 |
| 35° | 1821.0 | 1805.6 | 1740.6 | 1535.2 | 1401.3 | 1374.6 | 1374.6 | 1400.2 | 1415.5 | 1389.5 | 1360.8 |
| 37.5° | 2131.1 | 2114.3 | 2079.5 | 1803.0 | 1591.3 | 1472.3 | 1469.6 | 1487.7 | 1509.6 | 1515.7 | 1522.8 |
| 40° | 2484.0 | 2466.0 | 2475.8 | 2103.7 | 1856.6 | 1641.6 | 1605.2 | 1592.4 | 1651.8 | 1691.1 | 1748.3 |
| 42.5° | 2869.9 | 2861.7 | 2865.4 | 2438.4 | 2158.8 | 1894.5 | 1843.0 | 1776.9 | 1848.5 | 1918.6 | 2038.8 |
| 45° | 3227.3 | 3234.3 | 3230.8 | 2796.9 | 2495.2 | 2203.4 | 2148.6 | 2020.7 | 2090.8 | 2211.0 | 2406.7 |
| 47.5° | 3540.1 | 3510.4 | 3556.5 | 3188.4 | 2871.9 | 2548.9 | 2481.4 | 2310.1 | 2381.1 | 2529.4 | 2860.7 |
| 50° | 3919.9 | 3915.8 | 3848.3 | 3710.9 | 3327.4 | 2896.0 | 2807.6 | 2609.1 | 2719.6 | 2925.6 | 3432.8 |
| 52.5° | 4319.2 | 4245.0 | 4183.1 | 4117.2 | 3810.5 | 3251.8 | 3143.3 | 2907.3 | 3117.3 | 3376.5 | 4130.0 |
| 55° | 4400.9 | 4367.6 | 4444.5 | 4555.3 | 4276.2 | 3621.3 | 3495.1 | 3280.9 | 3565.2 | 3891.7 | 4934.2 |
| 57.5° | 4575.7 | 4575.2 | 4733.8 | 4931.5 | 4755.7 | 4013.4 | 3886.2 | 3732.3 | 4068.8 | 4482.3 | 5787.9 |
| 60° | 4694.0 | 4727.2 | 5021.5 | 5405.6 | 5226.6 | 4466.5 | 4349.4 | 4253.3 | 4641.3 | 5142.2 | 6583.3 |
| 62.5° | 4755.7 | 4800.7 | 5202.5 | 5597.7 | 5892.2 | 5220.4 | 5103.5 | 4964.8 | 5398.9 | 5866.1 | 7048.6 |
| 65° | 4498.6 | 4587.0 | 5174.4 | 5763.9 | 6475.0 | 6442.7 | 6390.1 | 6146.7 | 6346.0 | 6438.2 | 6880.3 |
| 67.5° | 3787.1 | 3877.5 | 4561.6 | 5608.9 | 6891.1 | 7621.6 | 7632.8 | 7217.3 | 6928.8 | 6487.2 | 5784.7 |
| 70° | 2698.1 | 2769.1 | 3335.0 | 4702.5 | 6574.1 | 8392.0 | 8430.4 | 7710.5 | 6812.8 | 5753.1 | 4041.6 |
| 72.5° | 1281.2 | 1324.6 | 1860.3 | 3060.5 | 5216.8 | 7689.0 | 7763.2 | 7080.7 | 5793.0 | 4259.4 | 2204.8 |
| 75° | 470.8 | 484.0 | 628.8 | 1302.1 | 3025.9 | 5670.3 | 5757.6 | 5075.8 | 3840.2 | 2120.4 | 839.9 |
| 77.5° | 282.2 | 291.0 | 352.8 | 549.6 | 1190.1 | 3241.1 | 3370.4 | 2760.5 | 1678.4 | 789.3 | 413.0 |
| 80° | 197.3 | 203.5 | 253.1 | 342.0 | 562.2 | 1235.1 | 1350.2 | 1126.7 | 668.7 | 499.5 | 300.7 |
| 82.5° | 133.4 | 136.5 | 178.0 | 231.0 | 373.6 | 441.2 | 475.9 | 501.0 | 450.9 | 371.7 | 190.7 |
| 85° | 87.5 | 90.5 | 120.6 | 152.4 | 237.7 | 228.0 | 233.1 | 295.0 | 329.1 | 252.6 | 105.8 |
| 87.5° | 50.0 | 52.1 | 72.7 | 81.2 | 116.6 | 96.6 | 97.6 | 155.3 | 210.7 | 170.1 | 64.4 |
| 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-02-LED-U-T4W-7027

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1219.2 | 1219.2 | 1219.2 | 1219.2 | 1219.2 | 1219.2 | 1219.2 | 1219.2 | 1219.2 | 1219.2 | 1219.2 |
| 2.5° | 1214.6 | 1208.0 | 1193.2 | 1184.0 | 1175.3 | 1173.2 | 1169.7 | 1169.1 | 1168.7 | 1168.7 | 1167.1 |
| 5° | 1187.5 | 1176.3 | 1153.2 | 1140.5 | 1129.8 | 1128.7 | 1128.2 | 1130.7 | 1131.9 | 1132.9 | 1131.2 |
| 7.5° | 1170.1 | 1154.9 | 1126.1 | 1107.8 | 1095.0 | 1091.9 | 1097.0 | 1108.8 | 1116.5 | 1119.6 | 1118.0 |
| 10° | 1159.4 | 1140.5 | 1107.3 | 1087.3 | 1076.6 | 1075.0 | 1081.6 | 1095.6 | 1111.4 | 1117.5 | 1117.0 |
| 12.5° | 1147.1 | 1125.7 | 1090.5 | 1069.4 | 1063.4 | 1066.4 | 1075.0 | 1087.8 | 1104.1 | 1113.9 | 1114.4 |
| 15° | 1134.9 | 1109.9 | 1073.6 | 1055.1 | 1052.5 | 1056.6 | 1064.9 | 1074.6 | 1087.3 | 1097.0 | 1098.1 |
| 17.5° | 1120.0 | 1094.0 | 1057.7 | 1038.8 | 1036.7 | 1038.8 | 1039.2 | 1044.4 | 1052.5 | 1061.7 | 1064.3 |
| 20° | 1104.1 | 1077.6 | 1039.8 | 1020.8 | 1011.8 | 1003.4 | 994.3 | 995.3 | 997.8 | 1007.1 | 1009.2 |
| 22.5° | 1093.0 | 1066.4 | 1026.0 | 1000.0 | 975.4 | 950.9 | 932.4 | 929.8 | 931.0 | 938.5 | 941.2 |
| 25° | 1094.0 | 1065.8 | 1022.5 | 977.4 | 923.7 | 884.4 | 859.9 | 855.7 | 855.2 | 860.8 | 864.4 |
| 27.5° | 1113.9 | 1085.8 | 1035.7 | 954.4 | 867.6 | 809.3 | 783.1 | 780.1 | 776.0 | 777.6 | 781.6 |
| 30° | 1158.4 | 1132.4 | 1067.9 | 931.0 | 806.7 | 735.6 | 708.6 | 705.4 | 699.8 | 697.3 | 700.4 |
| 32.5° | 1230.9 | 1209.5 | 1114.9 | 908.5 | 745.9 | 672.7 | 645.2 | 638.4 | 634.9 | 631.9 | 634.5 |
| 35° | 1351.6 | 1342.4 | 1177.8 | 883.9 | 692.1 | 624.2 | 599.1 | 588.8 | 583.8 | 589.4 | 593.5 |
| 37.5° | 1540.8 | 1546.0 | 1260.1 | 845.6 | 650.7 | 592.0 | 571.1 | 559.3 | 551.6 | 556.2 | 560.8 |
| 40° | 1808.6 | 1812.2 | 1351.1 | 791.3 | 615.0 | 573.1 | 550.7 | 539.8 | 529.1 | 520.8 | 520.4 |
| 42.5° | 2160.3 | 2124.0 | 1440.6 | 732.6 | 573.6 | 561.4 | 536.3 | 523.0 | 506.6 | 484.0 | 479.5 |
| 45° | 2577.4 | 2450.1 | 1508.6 | 665.0 | 527.0 | 547.0 | 520.4 | 502.1 | 476.5 | 451.8 | 449.3 |
| 47.5° | 3058.0 | 2800.3 | 1541.9 | 595.0 | 483.6 | 526.0 | 501.0 | 471.8 | 439.6 | 427.4 | 425.8 |
| 50° | 3645.0 | 3216.0 | 1557.7 | 527.0 | 445.7 | 498.4 | 472.9 | 438.6 | 411.6 | 409.0 | 407.4 |
| 52.5° | 4313.0 | 3716.0 | 1562.7 | 471.3 | 414.6 | 462.6 | 449.8 | 416.6 | 395.2 | 397.2 | 397.2 |
| 55° | 5012.4 | 4232.3 | 1493.3 | 430.9 | 385.9 | 425.8 | 434.5 | 407.9 | 390.0 | 398.2 | 401.4 |
| 57.5° | 5654.4 | 4689.8 | 1274.4 | 399.7 | 358.9 | 397.7 | 428.9 | 416.2 | 403.9 | 437.0 | 439.1 |
| 60° | 6147.2 | 4960.3 | 951.8 | 371.7 | 338.9 | 388.0 | 443.8 | 447.3 | 450.4 | 529.6 | 540.3 |
| 62.5° | 6250.4 | 4870.3 | 654.3 | 349.7 | 329.7 | 396.2 | 470.8 | 471.3 | 467.7 | 523.0 | 529.6 |
| 65° | 5776.6 | 4301.3 | 475.9 | 337.5 | 322.0 | 411.1 | 493.8 | 483.1 | 459.6 | 501.6 | 489.2 |
| 67.5° | 4587.6 | 3240.5 | 396.2 | 328.2 | 310.9 | 409.9 | 518.3 | 493.8 | 455.0 | 491.3 | 471.3 |
| 70° | 2977.8 | 1959.5 | 352.8 | 320.5 | 297.5 | 390.6 | 532.6 | 492.8 | 441.6 | 457.0 | 433.5 |
| 72.5° | 1452.9 | 876.1 | 323.6 | 309.2 | 283.8 | 363.5 | 532.2 | 483.6 | 428.0 | 426.9 | 414.1 |
| 75° | 568.4 | 401.4 | 297.0 | 292.4 | 260.1 | 332.8 | 517.9 | 470.4 | 411.6 | 395.2 | 390.6 |
| 77.5° | 332.8 | 286.3 | 263.3 | 267.3 | 232.1 | 302.1 | 496.9 | 447.3 | 389.1 | 369.7 | 364.5 |
| 80° | 242.4 | 214.2 | 224.4 | 231.0 | 198.3 | 271.5 | 468.7 | 419.1 | 364.0 | 373.6 | 366.6 |
| 82.5° | 155.3 | 138.0 | 181.9 | 188.6 | 165.1 | 240.2 | 438.2 | 389.5 | 328.7 | 298.5 | 291.4 |
| 85° | 79.2 | 87.5 | 135.5 | 143.6 | 127.3 | 197.3 | 400.7 | 350.2 | 288.9 | 248.4 | 252.6 |
| 87.5° | 44.5 | 59.7 | 86.3 | 96.6 | 90.0 | 151.9 | 325.1 | 288.9 | 235.6 | 191.7 | 168.7 |
| 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)