

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: P194770

Luminaire Tested: **GAN-AF-02-LED-U-T3-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194770
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-T3-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8026 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

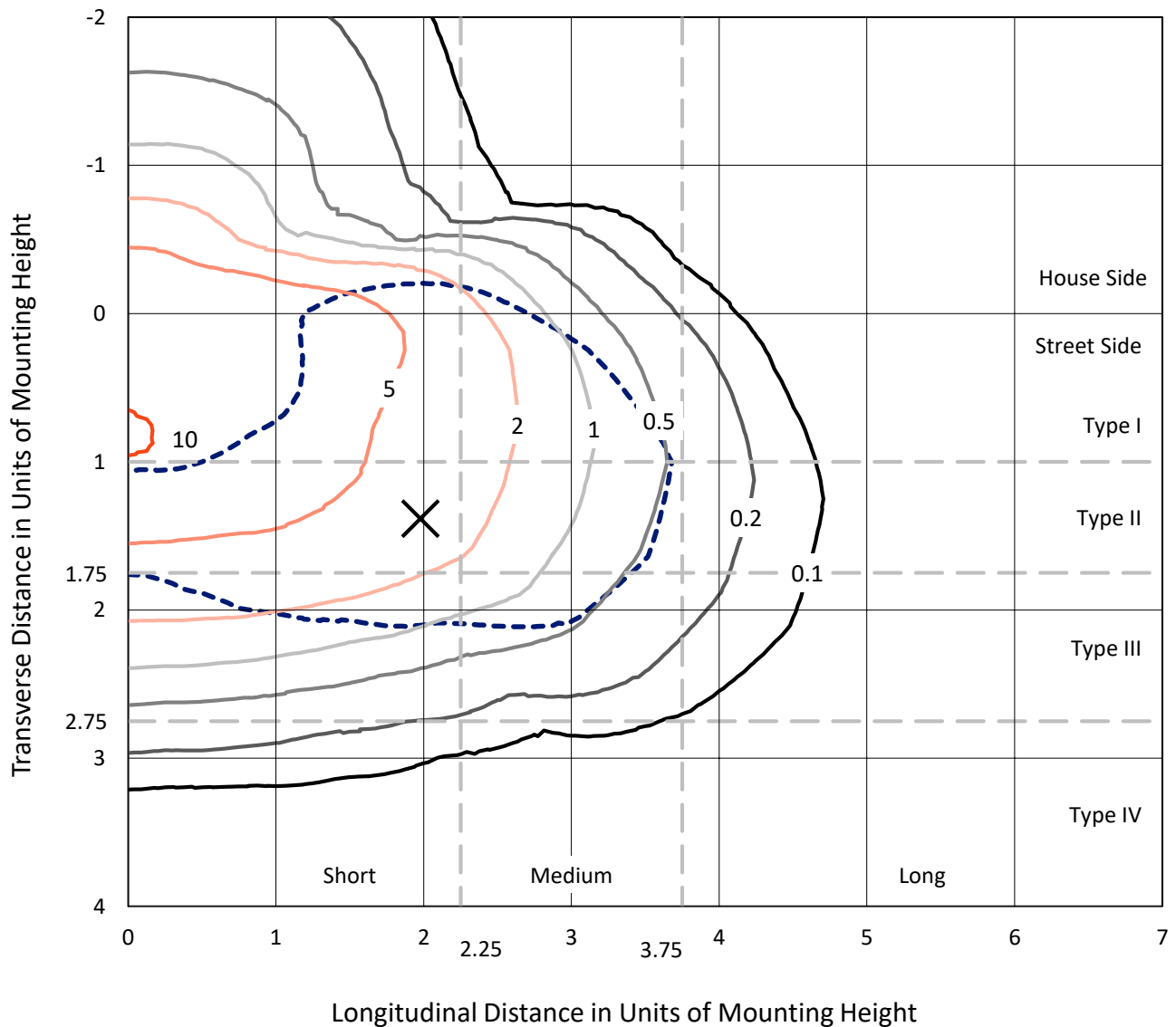
Input Watts (W): 66
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

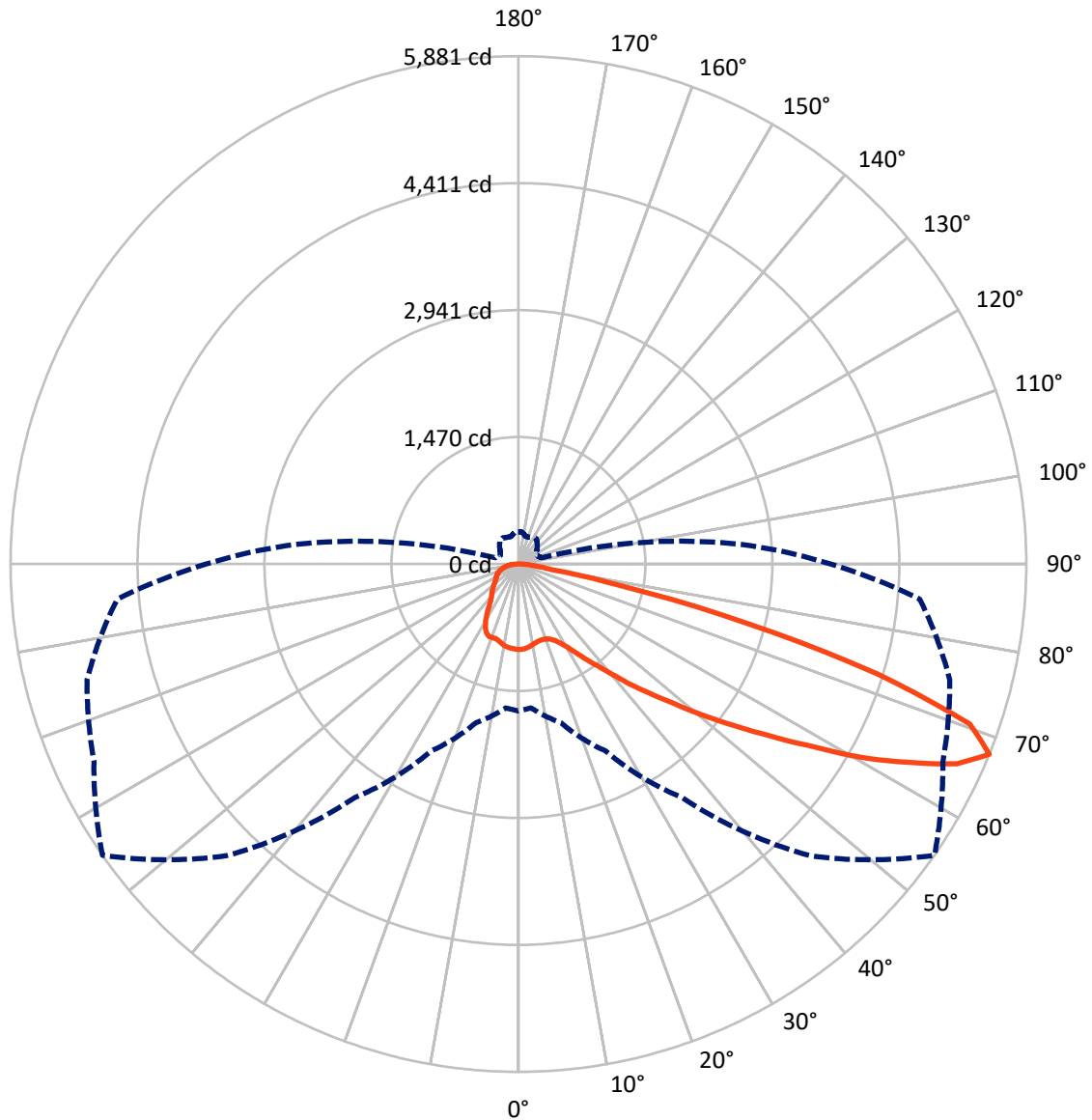
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1733.8 | 0.0 | 1733.8 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 6292.2 | 0.0 | 6292.2 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 8026.0 | 0.0 | 8026.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 92.4 | 1.2 |
| 10°-20° | 261.6 | 3.3 |
| 20°-30° | 438.3 | 5.5 |
| 30°-40° | 720.7 | 9.0 |
| 40°-50° | 1213.1 | 15.1 |
| 50°-60° | 1909.4 | 23.8 |
| 60°-70° | 2278.6 | 28.4 |
| 70°-80° | 978.5 | 12.2 |
| 80°-90° | 133.4 | 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° | 8026.0 | 100.0 |
| 0°-180° | 8026.0 | 100.0 |



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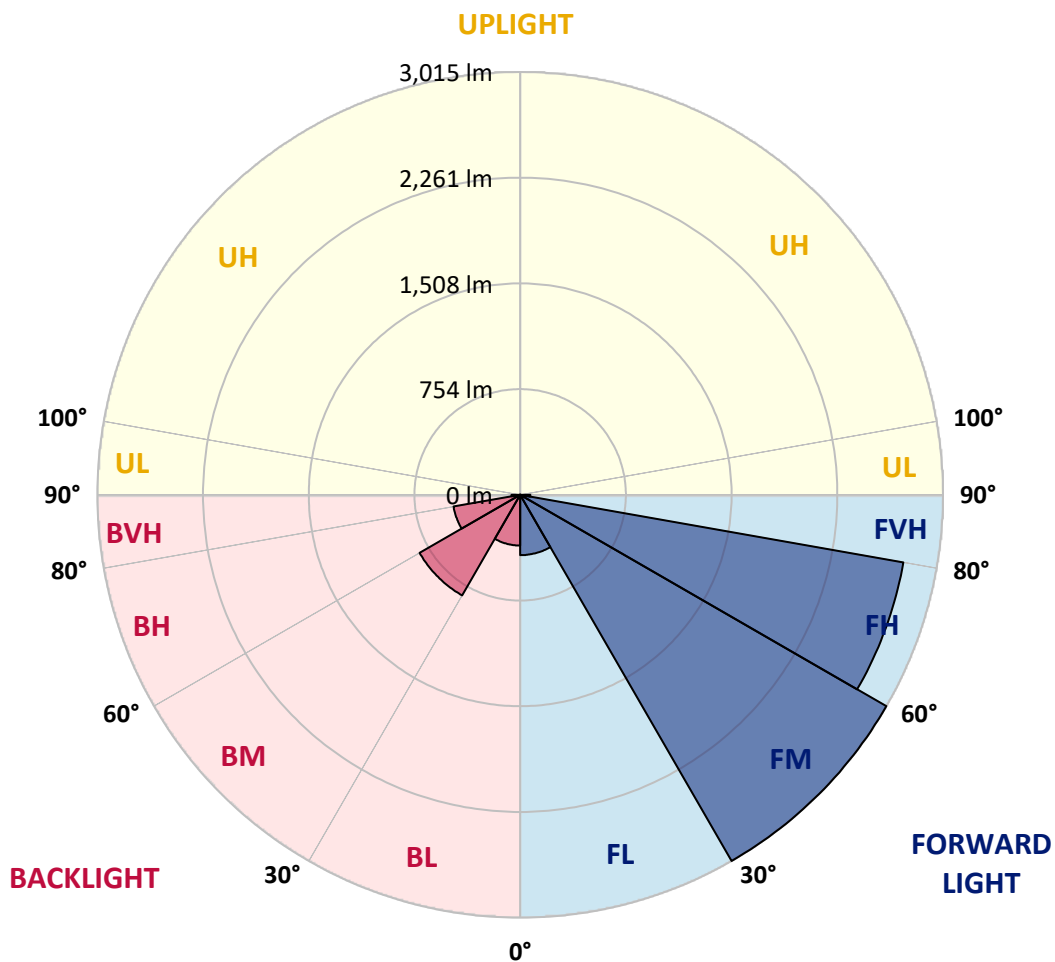
CATALOG NUMBER: GAN-AF-02-LED-U-T3-7060-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 430.2 | 5.4 | | | |
| FM | (30°-60°) | 3015.2 | 37.6 | | | |
| FH | (60°-80°) | 2774.6 | 34.6 | | | G2/5000 |
| FVH | (80°-90°) | 72.2 | 0.9 | | | G1/100 |
| BL | (0°-30°) | 362.0 | 4.5 | B1/500 | | |
| BM | (30°-60°) | 828.0 | 10.3 | B1/1000 | | |
| BH | (60°-80°) | 482.5 | 6.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 61.2 | 0.8 | | | 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° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 989.7 | 989.7 | 989.7 | 989.7 | 989.7 | 989.7 | 989.7 | 989.7 | 989.7 | 989.7 | 989.7 |
| 2.5° | 981.2 | 981.6 | 982.3 | 985.4 | 988.1 | 987.4 | 987.8 | 986.2 | 985.8 | 983.5 | 985.8 |
| 5° | 968.8 | 969.9 | 970.3 | 975.4 | 978.5 | 979.2 | 978.1 | 976.1 | 973.8 | 971.5 | 972.6 |
| 7.5° | 940.5 | 943.6 | 943.9 | 950.9 | 956.0 | 962.6 | 962.9 | 963.3 | 962.2 | 960.6 | 962.9 |
| 10° | 922.6 | 923.4 | 923.0 | 928.1 | 931.9 | 939.3 | 943.6 | 950.9 | 954.0 | 954.8 | 956.4 |
| 12.5° | 921.5 | 920.7 | 919.5 | 919.5 | 918.4 | 921.5 | 929.2 | 939.7 | 947.1 | 949.4 | 951.3 |
| 15° | 933.9 | 933.5 | 929.6 | 923.8 | 916.4 | 914.1 | 920.7 | 932.3 | 942.0 | 947.1 | 949.0 |
| 17.5° | 961.8 | 959.5 | 953.3 | 940.1 | 924.2 | 918.0 | 918.8 | 928.4 | 939.7 | 946.3 | 948.2 |
| 20° | 1013.0 | 1013.0 | 999.8 | 975.0 | 946.7 | 931.9 | 925.0 | 930.8 | 941.6 | 950.5 | 953.3 |
| 22.5° | 1101.3 | 1102.1 | 1080.0 | 1039.3 | 991.6 | 960.2 | 942.8 | 941.6 | 954.4 | 964.5 | 967.6 |
| 25° | 1226.6 | 1223.5 | 1192.4 | 1134.3 | 1061.8 | 1009.9 | 979.6 | 972.6 | 983.5 | 994.7 | 998.6 |
| 27.5° | 1372.3 | 1361.1 | 1324.2 | 1254.1 | 1160.3 | 1084.3 | 1037.8 | 1026.5 | 1037.0 | 1049.8 | 1053.7 |
| 30° | 1516.5 | 1504.9 | 1461.1 | 1384.3 | 1280.1 | 1183.9 | 1117.2 | 1099.0 | 1113.7 | 1132.0 | 1134.3 |
| 32.5° | 1660.7 | 1660.7 | 1611.9 | 1522.3 | 1408.8 | 1302.9 | 1223.1 | 1201.4 | 1225.8 | 1247.9 | 1252.9 |
| 35° | 1833.2 | 1834.0 | 1786.7 | 1679.0 | 1556.8 | 1444.8 | 1356.8 | 1340.9 | 1377.7 | 1393.2 | 1405.3 |
| 37.5° | 2045.3 | 2049.6 | 1988.7 | 1858.4 | 1724.7 | 1606.8 | 1502.2 | 1480.5 | 1517.3 | 1559.6 | 1598.3 |
| 40° | 2274.4 | 2279.8 | 2212.8 | 2052.3 | 1918.5 | 1795.2 | 1682.1 | 1642.9 | 1704.1 | 1784.8 | 1834.8 |
| 42.5° | 2493.0 | 2520.9 | 2456.2 | 2291.1 | 2147.2 | 2019.7 | 1905.0 | 1848.0 | 1924.7 | 2046.5 | 2089.9 |
| 45° | 2809.0 | 2829.1 | 2716.3 | 2566.7 | 2431.4 | 2288.7 | 2136.8 | 2076.7 | 2184.1 | 2337.6 | 2346.5 |
| 47.5° | 3019.5 | 3004.4 | 2947.0 | 2853.9 | 2768.3 | 2634.9 | 2406.2 | 2340.3 | 2483.0 | 2663.6 | 2613.6 |
| 50° | 3131.5 | 3136.2 | 3128.4 | 3133.8 | 3136.9 | 3053.2 | 2736.5 | 2646.2 | 2816.3 | 3034.6 | 2919.5 |
| 52.5° | 3236.2 | 3205.2 | 3230.8 | 3357.9 | 3511.4 | 3480.4 | 3095.8 | 3001.6 | 3173.8 | 3446.3 | 3242.8 |
| 55° | 3233.9 | 3186.6 | 3269.9 | 3494.4 | 3827.4 | 3863.0 | 3499.4 | 3390.9 | 3551.7 | 3887.8 | 3585.5 |
| 57.5° | 3119.5 | 3121.8 | 3250.1 | 3544.0 | 4047.5 | 4222.8 | 3967.7 | 3804.9 | 3952.6 | 4335.2 | 3898.3 |
| 60° | 2962.1 | 2983.4 | 3168.3 | 3535.8 | 4223.9 | 4517.8 | 4542.2 | 4251.1 | 4345.3 | 4741.8 | 4157.3 |
| 62.5° | 2708.2 | 2730.7 | 2985.7 | 3451.3 | 4197.2 | 4801.9 | 5061.7 | 4757.4 | 4755.8 | 4988.4 | 4233.2 |
| 65° | 2307.7 | 2301.1 | 2569.0 | 3135.4 | 3972.7 | 5012.0 | 5577.6 | 5195.0 | 5065.2 | 4992.3 | 4080.5 |
| 67.5° | 1701.8 | 1672.4 | 1902.2 | 2388.0 | 3302.1 | 4776.7 | 5881.2 | 5423.0 | 5170.6 | 4663.9 | 3613.8 |
| 70° | 883.1 | 853.6 | 1039.7 | 1394.4 | 2171.7 | 3728.1 | 5545.1 | 5305.1 | 4937.6 | 3909.5 | 2831.1 |
| 72.5° | 377.6 | 372.5 | 448.1 | 611.7 | 1050.6 | 2150.3 | 4348.0 | 4591.8 | 4236.7 | 2912.9 | 1946.4 |
| 75° | 253.9 | 252.4 | 280.7 | 333.4 | 472.6 | 872.6 | 2721.0 | 3259.4 | 3099.7 | 1806.1 | 1094.7 |
| 77.5° | 199.3 | 197.3 | 214.0 | 239.6 | 306.3 | 344.2 | 1207.6 | 1749.9 | 1619.6 | 786.2 | 479.1 |
| 80° | 155.8 | 154.3 | 164.8 | 178.7 | 220.2 | 217.1 | 397.4 | 696.2 | 538.8 | 301.2 | 233.0 |
| 82.5° | 122.9 | 122.9 | 131.4 | 131.8 | 156.2 | 148.1 | 207.4 | 306.6 | 269.0 | 175.6 | 142.7 |
| 85° | 112.4 | 112.4 | 121.3 | 98.5 | 102.0 | 93.4 | 128.7 | 181.8 | 170.6 | 72.1 | 62.0 |
| 87.5° | 56.6 | 55.0 | 102.0 | 87.2 | 55.4 | 49.6 | 62.8 | 88.0 | 94.6 | 39.9 | 31.0 |
| 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-T3-7060-600

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|
| 0° | 989.7 | 989.7 | 989.7 | 989.7 | 989.7 | 989.7 | 989.7 | 989.7 | 989.7 | 989.7 |
| 2.5° | 985.0 | 984.7 | 985.4 | 985.8 | 988.9 | 993.2 | 995.1 | 997.8 | 999.4 | 998.6 |
| 5° | 973.4 | 974.2 | 977.3 | 979.6 | 985.0 | 992.0 | 995.9 | 999.0 | 1001.7 | 1000.5 |
| 7.5° | 963.7 | 965.7 | 970.3 | 972.2 | 975.4 | 977.3 | 976.9 | 978.1 | 980.4 | 977.7 |
| 10° | 958.3 | 960.6 | 964.1 | 961.4 | 954.0 | 943.6 | 933.9 | 928.8 | 930.4 | 928.4 |
| 12.5° | 952.9 | 956.0 | 953.3 | 940.5 | 919.9 | 906.3 | 899.0 | 899.8 | 903.2 | 904.0 |
| 15° | 949.8 | 950.9 | 939.3 | 915.3 | 894.3 | 892.4 | 896.3 | 895.5 | 895.9 | 895.9 |
| 17.5° | 949.8 | 946.7 | 925.0 | 900.9 | 892.0 | 888.5 | 876.5 | 861.4 | 854.8 | 852.5 |
| 20° | 954.8 | 946.7 | 920.3 | 904.4 | 885.0 | 855.2 | 823.4 | 795.5 | 783.1 | 779.6 |
| 22.5° | 969.9 | 956.0 | 933.5 | 906.0 | 850.9 | 800.9 | 750.5 | 717.2 | 694.7 | 690.8 |
| 25° | 1000.5 | 985.0 | 959.5 | 885.4 | 796.6 | 725.3 | 667.9 | 630.7 | 608.2 | 605.1 |
| 27.5° | 1054.0 | 1044.0 | 973.4 | 840.1 | 724.5 | 648.2 | 595.1 | 566.4 | 549.7 | 548.5 |
| 30° | 1134.7 | 1129.6 | 966.4 | 773.0 | 635.8 | 573.3 | 547.8 | 531.1 | 518.7 | 518.3 |
| 32.5° | 1263.4 | 1222.7 | 943.6 | 691.2 | 554.7 | 520.2 | 509.8 | 499.7 | 490.0 | 490.0 |
| 35° | 1428.9 | 1297.9 | 900.1 | 603.6 | 505.5 | 490.8 | 477.6 | 461.7 | 448.9 | 448.1 |
| 37.5° | 1623.5 | 1344.4 | 822.2 | 533.0 | 482.2 | 471.0 | 451.6 | 428.0 | 405.5 | 401.6 |
| 40° | 1820.1 | 1358.4 | 712.5 | 489.6 | 467.5 | 451.2 | 427.6 | 399.7 | 378.0 | 376.8 |
| 42.5° | 2000.3 | 1331.6 | 596.2 | 459.8 | 452.8 | 431.1 | 406.3 | 381.5 | 364.4 | 364.0 |
| 45° | 2151.5 | 1262.2 | 498.5 | 431.5 | 437.3 | 412.9 | 390.8 | 370.6 | 357.4 | 354.7 |
| 47.5° | 2293.8 | 1164.1 | 429.9 | 401.6 | 421.8 | 402.8 | 384.2 | 365.2 | 352.4 | 350.4 |
| 50° | 2458.9 | 1058.3 | 381.8 | 372.5 | 408.2 | 399.3 | 389.6 | 369.8 | 348.5 | 346.2 |
| 52.5° | 2659.0 | 966.8 | 344.2 | 347.0 | 397.7 | 403.9 | 403.6 | 383.0 | 345.8 | 342.7 |
| 55° | 2882.2 | 865.3 | 315.9 | 326.0 | 393.5 | 412.5 | 407.0 | 395.4 | 348.1 | 343.5 |
| 57.5° | 3102.0 | 746.6 | 296.2 | 310.1 | 387.3 | 411.7 | 390.4 | 373.7 | 353.5 | 347.0 |
| 60° | 3266.8 | 587.3 | 281.1 | 296.2 | 373.7 | 398.9 | 372.2 | 350.1 | 352.4 | 347.3 |
| 62.5° | 3277.7 | 453.9 | 262.8 | 284.2 | 353.2 | 386.1 | 360.1 | 339.6 | 357.4 | 352.8 |
| 65° | 3085.0 | 343.1 | 245.4 | 269.8 | 331.1 | 378.0 | 348.5 | 333.8 | 367.9 | 362.8 |
| 67.5° | 2597.3 | 276.0 | 230.7 | 255.1 | 309.0 | 360.9 | 338.0 | 328.3 | 377.2 | 368.3 |
| 70° | 1875.1 | 235.3 | 216.3 | 237.2 | 289.2 | 341.5 | 328.7 | 318.7 | 352.0 | 338.0 |
| 72.5° | 1154.4 | 203.9 | 200.0 | 213.6 | 274.1 | 321.4 | 314.8 | 300.4 | 317.1 | 305.9 |
| 75° | 576.4 | 176.8 | 181.8 | 190.3 | 252.8 | 298.5 | 291.5 | 277.2 | 279.5 | 277.2 |
| 77.5° | 276.0 | 151.2 | 160.5 | 167.1 | 225.2 | 272.5 | 265.2 | 250.4 | 247.7 | 248.1 |
| 80° | 174.8 | 126.4 | 135.3 | 139.9 | 201.2 | 242.3 | 234.9 | 220.2 | 251.2 | 233.0 |
| 82.5° | 109.3 | 102.7 | 105.1 | 113.6 | 175.2 | 210.9 | 201.2 | 188.0 | 226.4 | 179.1 |
| 85° | 60.5 | 71.7 | 74.8 | 82.2 | 134.9 | 176.4 | 166.7 | 150.0 | 134.5 | 132.2 |
| 87.5° | 36.1 | 42.6 | 43.8 | 49.2 | 90.7 | 127.5 | 112.8 | 107.0 | 88.8 | 88.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)