

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: P266633

Luminaire Tested: **GAN-AF-01-LED-U-T4FT-7027-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-T4FT-7027-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3589.3 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 34
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

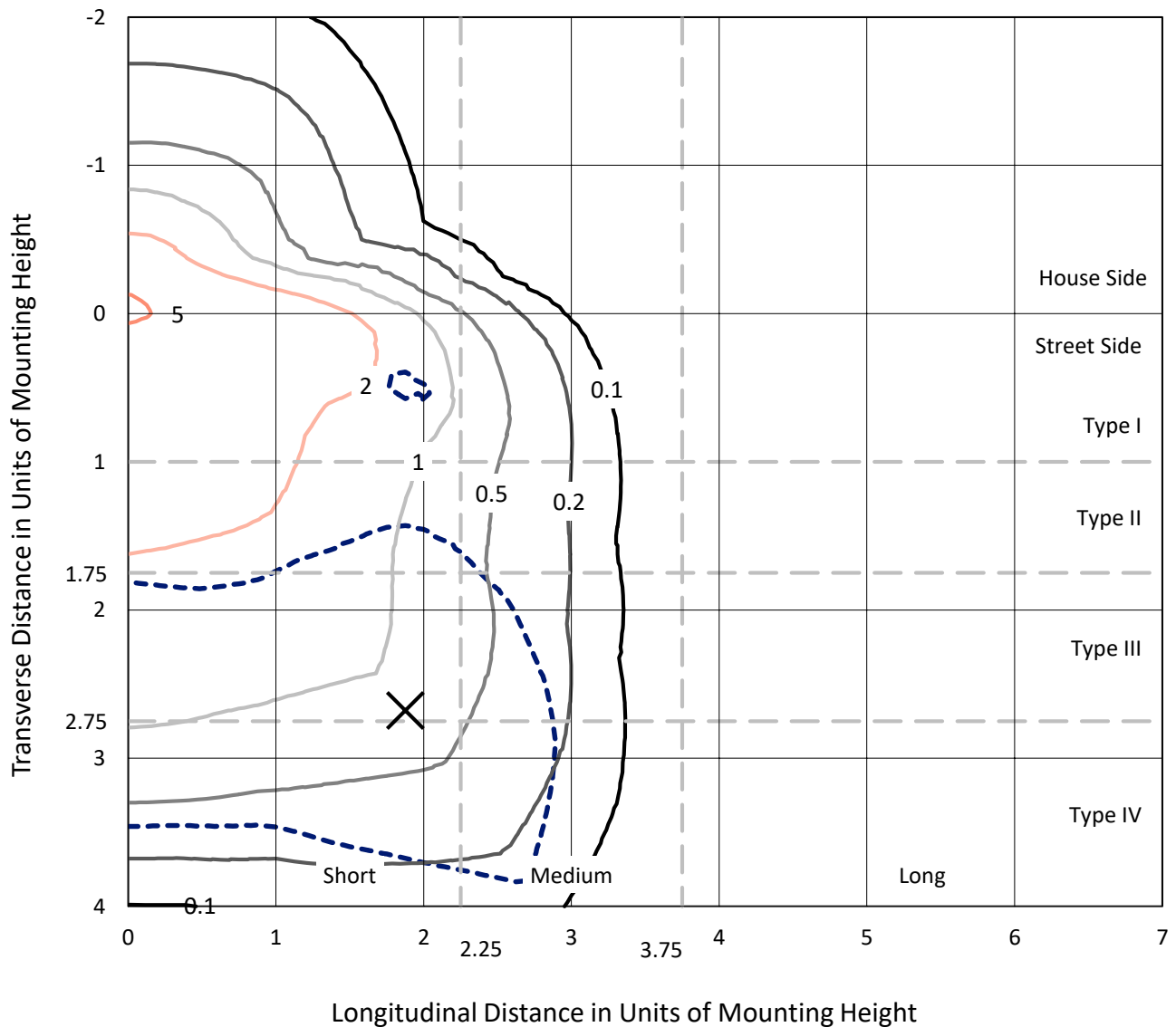


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

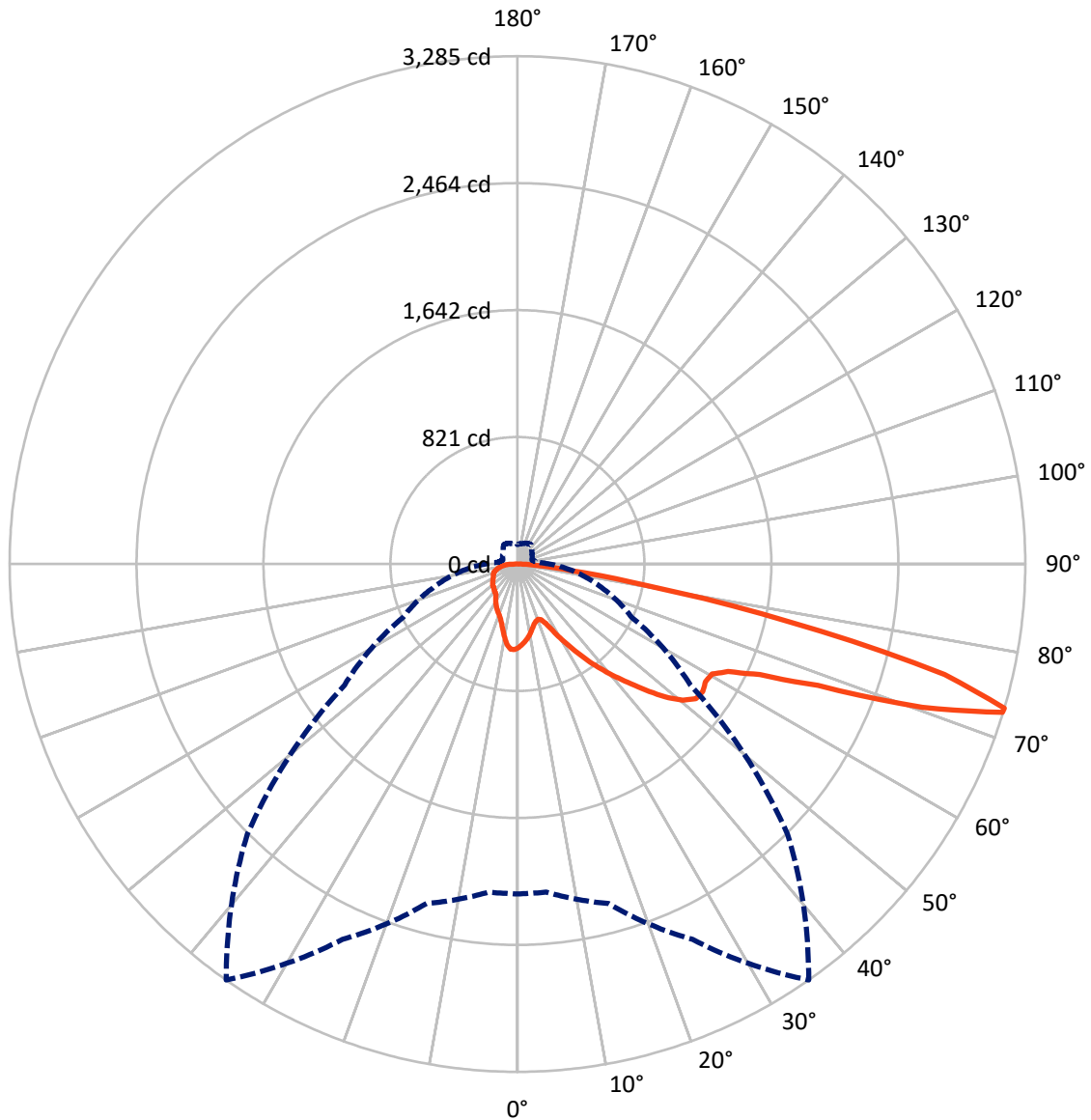


Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 684.6 | 0.0 | 684.6 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 2904.7 | 0.0 | 2904.7 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 3589.3 | 0.0 | 3589.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 49.0 | 1.4 |
| 10°-20° | 122.4 | 3.4 |
| 20°-30° | 197.9 | 5.5 |
| 30°-40° | 331.8 | 9.2 |
| 40°-50° | 511.5 | 14.3 |
| 50°-60° | 686.2 | 19.1 |
| 60°-70° | 914.2 | 25.5 |
| 70°-80° | 697.2 | 19.4 |
| 80°-90° | 79.0 | 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° | 3589.3 | 100.0 |
| 0°-180° | 3589.3 | 100.0 |

Coefficient of Utilization



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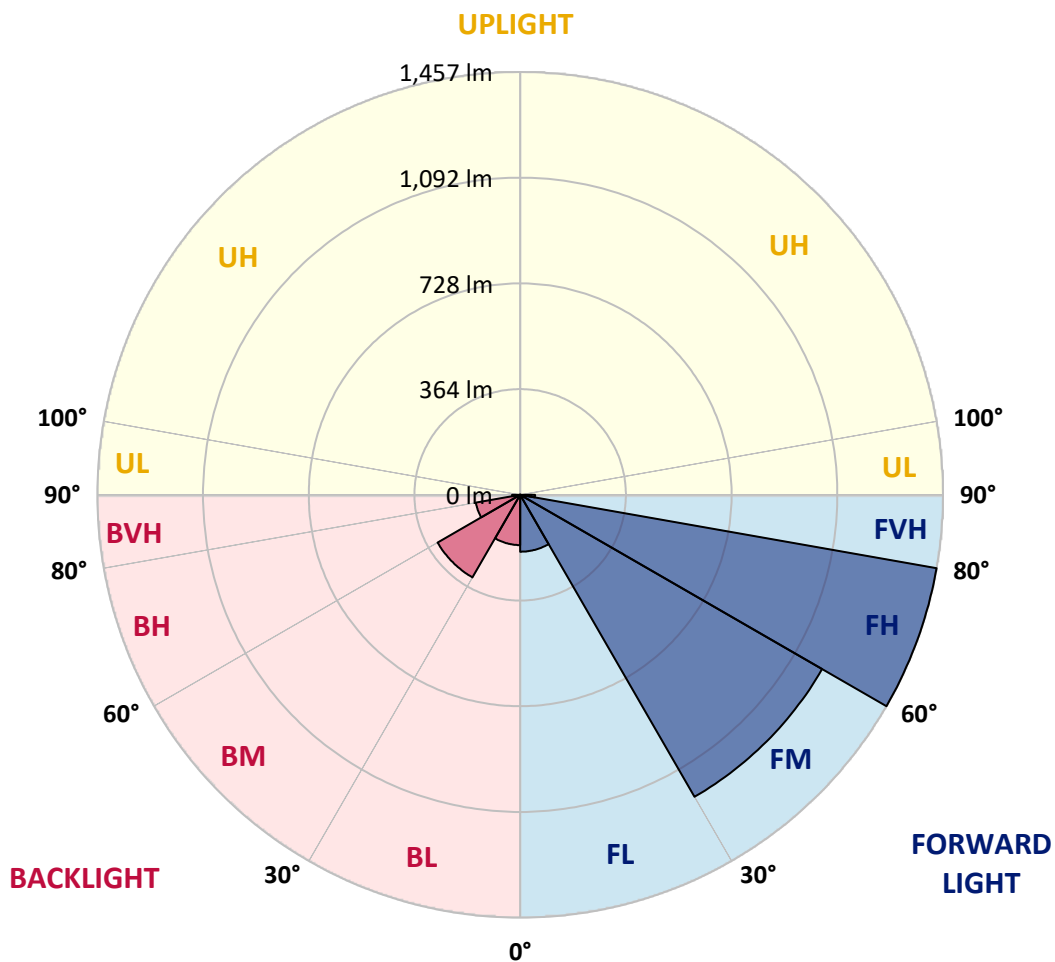
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 196.1 | 5.5 | | | |
| FM | (30°-60°) | 1201.0 | 33.5 | | | |
| FH | (60°-80°) | 1456.5 | 40.6 | | | G1/1800 |
| FVH | (80°-90°) | 51.1 | 1.4 | | | G1/100 |
| BL | (0°-30°) | 173.2 | 4.8 | B1/500 | | |
| BM | (30°-60°) | 328.5 | 9.2 | B1/1000 | | |
| BH | (60°-80°) | 154.9 | 4.3 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 27.9 | 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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 |
| 2.5° | 520.4 | 521.3 | 520.2 | 521.7 | 524.3 | 527.0 | 529.0 | 531.7 | 534.9 | 539.2 | 540.2 |
| 5° | 495.9 | 497.4 | 497.4 | 500.1 | 505.1 | 509.7 | 513.8 | 518.3 | 524.8 | 532.2 | 535.2 |
| 7.5° | 468.9 | 469.9 | 471.4 | 475.6 | 482.7 | 489.1 | 495.1 | 502.2 | 511.2 | 521.0 | 526.1 |
| 10° | 436.5 | 437.8 | 440.2 | 446.1 | 455.9 | 464.8 | 473.1 | 483.1 | 494.4 | 506.7 | 513.3 |
| 12.5° | 413.7 | 413.3 | 414.4 | 418.7 | 427.2 | 438.0 | 450.2 | 462.9 | 476.9 | 491.3 | 499.2 |
| 15° | 405.9 | 404.0 | 400.0 | 398.9 | 403.7 | 414.4 | 428.5 | 444.2 | 460.9 | 478.2 | 488.0 |
| 17.5° | 410.7 | 407.6 | 396.6 | 388.6 | 388.0 | 396.2 | 411.1 | 428.8 | 448.0 | 468.9 | 481.2 |
| 20° | 441.1 | 433.3 | 406.7 | 388.2 | 381.8 | 385.7 | 398.8 | 417.4 | 440.2 | 468.1 | 483.7 |
| 22.5° | 513.7 | 502.2 | 445.6 | 411.2 | 389.8 | 384.8 | 394.7 | 414.6 | 441.1 | 478.8 | 498.7 |
| 25° | 619.3 | 603.1 | 512.5 | 468.8 | 424.4 | 398.7 | 401.0 | 421.2 | 453.4 | 503.6 | 527.8 |
| 27.5° | 702.7 | 692.2 | 599.8 | 550.0 | 487.4 | 435.9 | 421.0 | 438.2 | 478.3 | 544.4 | 568.9 |
| 30° | 752.4 | 746.0 | 693.2 | 642.1 | 567.9 | 495.1 | 459.8 | 469.9 | 517.5 | 600.6 | 621.0 |
| 32.5° | 809.9 | 806.0 | 780.3 | 733.2 | 654.9 | 573.1 | 520.8 | 517.2 | 569.9 | 668.3 | 677.7 |
| 35° | 869.6 | 868.3 | 853.2 | 819.4 | 748.1 | 675.9 | 602.0 | 577.6 | 626.8 | 738.8 | 732.8 |
| 37.5° | 925.1 | 923.0 | 914.2 | 894.5 | 845.7 | 786.1 | 748.8 | 684.8 | 639.5 | 688.5 | 806.0 |
| 40° | 1027.3 | 1011.1 | 980.9 | 966.0 | 944.2 | 879.0 | 750.4 | 697.3 | 652.2 | 870.1 | 820.6 |
| 42.5° | 1151.8 | 1125.5 | 1069.3 | 1049.0 | 1045.8 | 952.4 | 795.3 | 753.1 | 816.5 | 933.7 | 860.5 |
| 45° | 1250.0 | 1225.2 | 1176.7 | 1151.1 | 1162.3 | 1018.7 | 840.3 | 813.1 | 882.7 | 1000.4 | 901.8 |
| 47.5° | 1354.6 | 1315.7 | 1251.5 | 1259.2 | 1284.0 | 1081.4 | 886.1 | 877.4 | 955.3 | 1075.0 | 953.0 |
| 50° | 1358.3 | 1328.6 | 1300.4 | 1346.7 | 1385.5 | 1139.1 | 943.5 | 944.7 | 1044.0 | 1169.0 | 1021.1 |
| 52.5° | 1279.6 | 1273.3 | 1317.9 | 1390.8 | 1446.5 | 1184.9 | 1008.8 | 1014.4 | 1157.6 | 1276.9 | 1095.9 |
| 55° | 1252.1 | 1244.8 | 1296.3 | 1375.5 | 1454.7 | 1222.6 | 1079.7 | 1089.6 | 1294.9 | 1390.7 | 1168.8 |
| 57.5° | 1319.3 | 1303.3 | 1306.7 | 1368.2 | 1434.6 | 1263.9 | 1156.8 | 1177.0 | 1444.2 | 1490.1 | 1215.6 |
| 60° | 1507.1 | 1472.9 | 1407.6 | 1406.1 | 1445.5 | 1326.0 | 1246.2 | 1270.8 | 1599.3 | 1537.7 | 1197.4 |
| 62.5° | 1770.6 | 1736.3 | 1614.3 | 1534.8 | 1529.1 | 1428.3 | 1355.8 | 1362.4 | 1689.0 | 1473.2 | 1086.0 |
| 65° | 2056.0 | 2025.3 | 1889.0 | 1776.7 | 1722.6 | 1597.9 | 1483.2 | 1403.2 | 1659.7 | 1295.8 | 890.8 |
| 67.5° | 2402.2 | 2369.3 | 2252.1 | 2148.4 | 2096.5 | 1871.7 | 1572.7 | 1364.0 | 1473.7 | 1003.9 | 640.3 |
| 70° | 2644.4 | 2610.7 | 2564.7 | 2648.6 | 2775.9 | 2266.6 | 1584.3 | 1204.9 | 1100.8 | 667.3 | 385.5 |
| 72.5° | 2328.4 | 2312.7 | 2397.0 | 2750.5 | 3281.1 | 2506.1 | 1432.0 | 877.4 | 639.4 | 354.2 | 223.0 |
| 73° | 2133.4 | 2129.9 | 2273.6 | 2679.0 | 3284.7 | 2469.3 | 1365.2 | 815.4 | 548.2 | 313.4 | 203.9 |
| 75° | 963.3 | 991.1 | 1306.1 | 2046.2 | 2853.7 | 2034.8 | 960.8 | 467.7 | 309.7 | 216.5 | 153.9 |
| 77.5° | 231.5 | 241.1 | 408.6 | 971.7 | 1802.2 | 1212.5 | 435.4 | 231.4 | 198.0 | 152.9 | 112.4 |
| 80° | 98.6 | 101.9 | 157.4 | 359.1 | 848.4 | 488.3 | 200.6 | 155.0 | 137.0 | 106.7 | 78.8 |
| 82.5° | 54.7 | 58.3 | 89.3 | 163.0 | 342.4 | 166.5 | 122.3 | 107.8 | 90.1 | 64.3 | 51.3 |
| 85° | 31.0 | 32.9 | 52.2 | 91.0 | 145.2 | 66.8 | 73.2 | 71.8 | 50.8 | 33.1 | 25.2 |
| 87.5° | 14.6 | 15.9 | 25.2 | 42.2 | 57.0 | 26.2 | 37.2 | 41.1 | 31.9 | 20.1 | 13.0 |
| 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-01-LED-U-T4FT-7027-600-ADJ

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 |
| 2.5° | 541.4 | 544.6 | 548.1 | 550.0 | 551.6 | 553.7 | 556.0 | 556.0 | 556.2 | 556.4 |
| 5° | 537.5 | 544.0 | 549.7 | 552.1 | 552.5 | 552.5 | 552.1 | 549.4 | 546.9 | 548.0 |
| 7.5° | 529.7 | 539.0 | 543.8 | 542.9 | 536.4 | 528.8 | 522.5 | 514.6 | 510.6 | 510.0 |
| 10° | 518.3 | 529.0 | 529.8 | 521.2 | 504.9 | 488.8 | 475.4 | 462.3 | 456.1 | 454.5 |
| 12.5° | 505.7 | 515.5 | 510.0 | 492.4 | 466.2 | 442.7 | 425.5 | 412.3 | 406.5 | 404.9 |
| 15° | 495.5 | 502.2 | 488.3 | 460.4 | 427.7 | 402.6 | 388.4 | 378.6 | 374.6 | 373.3 |
| 17.5° | 490.1 | 491.6 | 466.1 | 428.3 | 393.5 | 372.6 | 363.9 | 359.2 | 357.6 | 356.7 |
| 20° | 492.8 | 483.1 | 444.9 | 398.5 | 365.6 | 351.0 | 348.8 | 347.6 | 347.4 | 346.7 |
| 22.5° | 505.7 | 480.6 | 425.3 | 370.2 | 341.0 | 334.7 | 336.4 | 336.2 | 336.0 | 335.5 |
| 25° | 528.8 | 482.7 | 406.5 | 343.3 | 320.5 | 319.2 | 322.3 | 322.3 | 321.0 | 321.0 |
| 27.5° | 559.4 | 487.4 | 385.3 | 317.8 | 302.0 | 302.2 | 304.5 | 303.8 | 302.3 | 301.3 |
| 30° | 596.6 | 490.4 | 360.4 | 295.0 | 284.6 | 283.9 | 284.6 | 281.7 | 276.9 | 276.7 |
| 32.5° | 634.7 | 486.7 | 331.7 | 274.6 | 266.1 | 264.6 | 264.0 | 259.9 | 254.6 | 253.1 |
| 35° | 669.1 | 473.4 | 302.3 | 258.4 | 248.6 | 245.1 | 247.6 | 246.1 | 241.4 | 240.0 |
| 37.5° | 694.3 | 448.9 | 276.0 | 244.1 | 236.0 | 235.0 | 236.7 | 237.2 | 231.5 | 230.2 |
| 40° | 711.2 | 415.3 | 253.4 | 232.0 | 233.6 | 230.2 | 225.1 | 221.5 | 219.7 | 219.2 |
| 42.5° | 724.8 | 380.6 | 234.4 | 226.4 | 234.1 | 224.5 | 213.3 | 207.5 | 210.7 | 212.0 |
| 45° | 740.5 | 346.7 | 218.6 | 219.2 | 231.5 | 218.1 | 205.4 | 199.7 | 200.9 | 201.1 |
| 47.5° | 762.0 | 305.2 | 201.5 | 207.9 | 222.9 | 213.5 | 200.3 | 192.1 | 186.5 | 184.0 |
| 50° | 791.9 | 256.2 | 183.8 | 195.1 | 214.4 | 210.3 | 192.5 | 184.0 | 173.5 | 170.9 |
| 52.5° | 812.4 | 210.7 | 169.2 | 184.4 | 206.8 | 203.7 | 186.3 | 175.1 | 164.1 | 162.1 |
| 55° | 801.3 | 174.9 | 156.3 | 172.6 | 196.9 | 195.7 | 181.2 | 166.1 | 157.6 | 155.9 |
| 57.5° | 745.4 | 152.4 | 146.6 | 161.3 | 184.6 | 188.7 | 174.2 | 158.6 | 152.4 | 151.2 |
| 60° | 638.4 | 138.2 | 140.2 | 153.7 | 174.6 | 181.8 | 167.4 | 154.5 | 150.2 | 149.5 |
| 62.5° | 495.3 | 128.7 | 135.6 | 148.2 | 166.8 | 177.1 | 163.6 | 153.9 | 152.4 | 151.4 |
| 65° | 354.9 | 121.2 | 130.7 | 142.7 | 159.8 | 172.6 | 162.2 | 153.3 | 153.6 | 152.7 |
| 67.5° | 241.1 | 114.4 | 124.7 | 136.5 | 152.9 | 168.6 | 160.3 | 150.8 | 155.1 | 154.1 |
| 70° | 168.7 | 107.8 | 117.6 | 128.5 | 144.3 | 163.0 | 156.8 | 147.2 | 146.9 | 142.7 |
| 72.5° | 131.7 | 99.4 | 107.8 | 117.6 | 133.2 | 155.2 | 149.9 | 139.1 | 133.4 | 129.0 |
| 73° | 125.7 | 97.1 | 105.6 | 115.2 | 130.9 | 153.4 | 148.1 | 136.8 | 130.4 | 126.5 |
| 75° | 103.9 | 88.3 | 95.8 | 104.5 | 120.6 | 144.4 | 138.8 | 126.8 | 118.5 | 116.2 |
| 77.5° | 81.7 | 75.5 | 82.7 | 90.5 | 106.2 | 131.3 | 125.0 | 113.5 | 109.0 | 106.9 |
| 80° | 60.5 | 62.5 | 68.9 | 75.8 | 92.0 | 117.4 | 111.7 | 100.2 | 120.2 | 115.2 |
| 82.5° | 42.6 | 47.4 | 53.3 | 59.5 | 77.3 | 103.8 | 96.8 | 85.0 | 87.9 | 73.1 |
| 85° | 25.2 | 31.0 | 36.6 | 42.0 | 55.7 | 86.0 | 79.9 | 67.7 | 55.4 | 52.9 |
| 87.5° | 14.6 | 17.2 | 18.8 | 24.3 | 38.3 | 64.8 | 56.4 | 50.1 | 28.7 | 19.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)