

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: P268182

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268182  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
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-RW-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3646.2 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G1

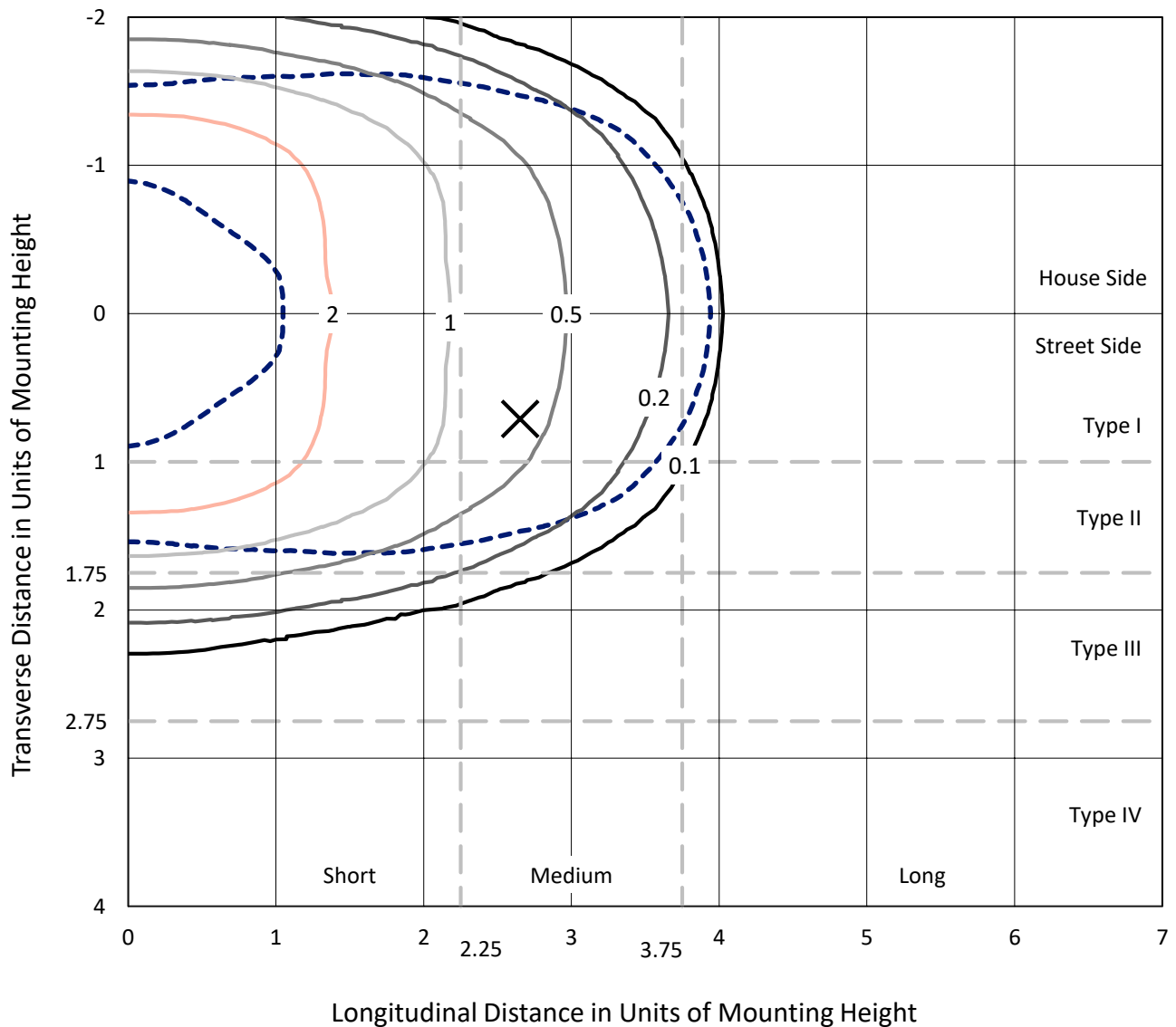
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

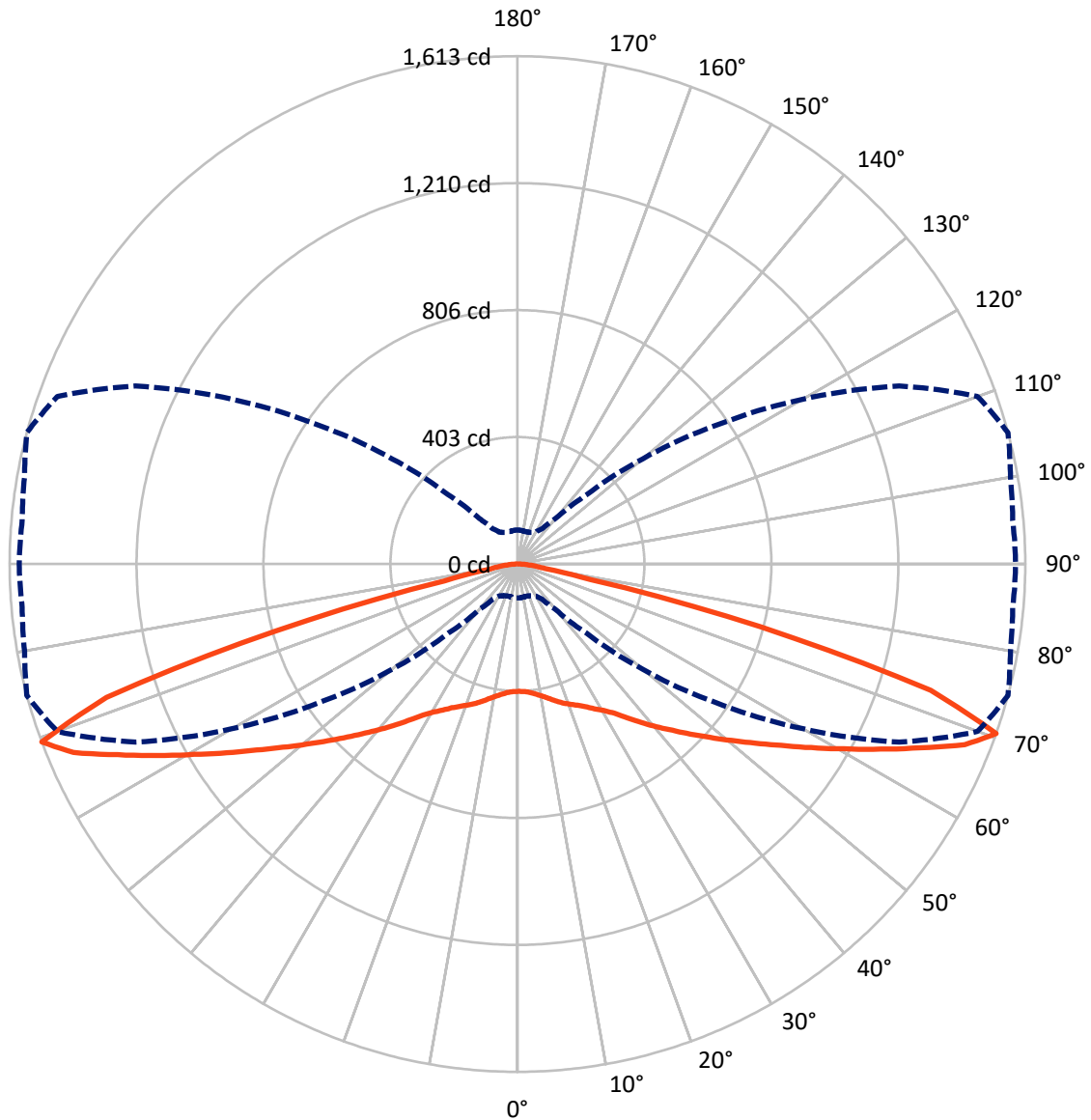
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc  
 Type V - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1823.1   | 0.0    | 1823.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1823.1   | 0.0    | 1823.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 3646.2   | 0.0    | 3646.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 38.8   | 1.1       |
| 10°-20°   | 120.5  | 3.3       |
| 20°-30°   | 226.8  | 6.2       |
| 30°-40°   | 401.7  | 11.0      |
| 40°-50°   | 671.8  | 18.4      |
| 50°-60°   | 936.1  | 25.7      |
| 60°-70°   | 868.1  | 23.8      |
| 70°-80°   | 346.0  | 9.5       |
| 80°-90°   | 36.4   | 1.0       |
| 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°    | 3646.2 | 100.0     |
| 0°-180°   | 3646.2 | 100.0     |



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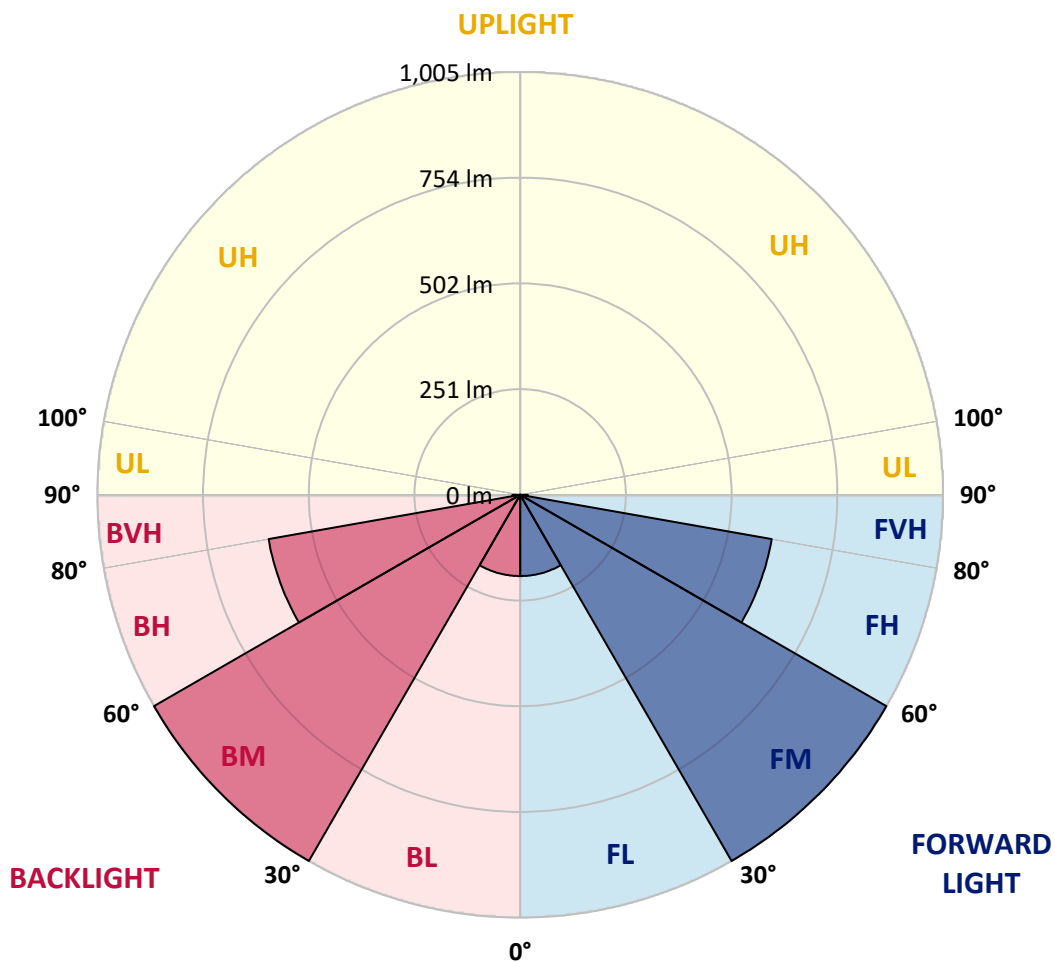
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 193.1  | 5.3       |                         |      |        |
| FM   | (30°-60°)   | 1004.8 | 27.6      |                         |      |        |
| FH   | (60°-80°)   | 607.0  | 16.6      |                         |      | G0/660 |
| FVH  | (80°-90°)   | 18.2   | 0.5       |                         |      | G1/100 |
| BL   | (0°-30°)    | 193.1  | 5.3       | B1/500                  |      |        |
| BM   | (30°-60°)   | 1004.8 | 27.6      | B2/2500                 |      |        |
| BH   | (60°-80°)   | 607.0  | 16.6      | B2/1000                 |      | G0/660 |
| BVH  | (80°-90°)   | 18.2   | 0.5       |                         |      | G1/100 |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G1**

Type V Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 404.4 | 404.4 | 404.4 | 404.4  | 404.4  | 404.4  | 404.4  | 404.4  | 404.4  | 404.4  | 404.4  |
| 2.5°  | 403.8 | 403.3 | 403.8 | 403.6  | 404.0  | 404.0  | 404.2  | 405.0  | 405.0  | 405.5  | 405.3  |
| 5°    | 399.7 | 399.7 | 400.1 | 400.6  | 401.2  | 402.3  | 403.2  | 404.7  | 406.0  | 406.8  | 407.7  |
| 7.5°  | 392.0 | 392.0 | 392.6 | 393.9  | 395.2  | 397.4  | 399.7  | 402.9  | 406.0  | 408.5  | 410.9  |
| 10°   | 385.6 | 386.0 | 386.9 | 389.0  | 391.0  | 394.4  | 397.7  | 402.3  | 406.6  | 410.9  | 414.3  |
| 12.5° | 381.9 | 382.4 | 383.9 | 387.0  | 390.6  | 395.2  | 400.1  | 405.9  | 410.6  | 415.8  | 419.2  |
| 15°   | 383.0 | 383.4 | 385.6 | 389.4  | 393.9  | 399.7  | 406.6  | 413.2  | 418.9  | 424.4  | 429.1  |
| 17.5° | 389.9 | 390.4 | 392.9 | 397.2  | 401.8  | 408.8  | 415.9  | 423.6  | 430.6  | 436.8  | 442.5  |
| 20°   | 401.8 | 402.4 | 405.7 | 410.3  | 415.8  | 422.9  | 430.1  | 438.1  | 446.0  | 452.6  | 458.9  |
| 22.5° | 418.9 | 419.8 | 422.9 | 427.6  | 433.7  | 441.3  | 450.0  | 458.3  | 466.0  | 472.0  | 477.7  |
| 25°   | 441.3 | 443.3 | 446.2 | 451.3  | 457.9  | 464.8  | 474.0  | 482.7  | 489.9  | 495.7  | 499.7  |
| 27.5° | 473.0 | 475.7 | 477.9 | 482.8  | 489.2  | 495.8  | 505.0  | 512.7  | 519.6  | 525.1  | 528.2  |
| 30°   | 515.1 | 517.7 | 519.8 | 524.7  | 530.5  | 536.7  | 545.6  | 552.3  | 556.6  | 560.9  | 560.7  |
| 32.5° | 566.1 | 568.8 | 569.7 | 574.8  | 580.9  | 587.6  | 595.5  | 599.3  | 602.9  | 603.3  | 600.2  |
| 35°   | 623.2 | 624.5 | 627.9 | 634.8  | 641.7  | 647.3  | 654.9  | 656.8  | 656.8  | 654.1  | 647.3  |
| 37.5° | 685.6 | 686.6 | 691.3 | 699.2  | 706.2  | 711.8  | 717.0  | 720.8  | 719.0  | 713.4  | 701.8  |
| 40°   | 754.2 | 755.8 | 762.8 | 769.6  | 777.6  | 782.9  | 788.4  | 789.2  | 787.2  | 779.1  | 763.4  |
| 42.5° | 819.8 | 821.1 | 828.0 | 838.8  | 849.2  | 856.7  | 861.8  | 862.8  | 856.9  | 849.3  | 829.9  |
| 45°   | 876.0 | 879.7 | 888.8 | 901.4  | 916.5  | 927.0  | 934.0  | 936.9  | 931.6  | 921.9  | 899.4  |
| 47.5° | 920.8 | 924.4 | 937.1 | 952.3  | 970.9  | 988.0  | 999.6  | 1005.8 | 1004.5 | 997.3  | 972.7  |
| 50°   | 953.6 | 957.0 | 970.7 | 989.4  | 1011.0 | 1032.2 | 1052.3 | 1067.0 | 1072.1 | 1069.0 | 1046.3 |
| 52.5° | 957.2 | 963.0 | 979.2 | 1004.1 | 1032.4 | 1061.3 | 1089.9 | 1114.9 | 1132.0 | 1134.6 | 1117.9 |
| 55°   | 904.4 | 910.1 | 932.4 | 969.5  | 1011.5 | 1058.7 | 1104.2 | 1146.6 | 1180.3 | 1197.5 | 1188.6 |
| 57.5° | 779.5 | 789.8 | 813.3 | 856.9  | 918.6  | 989.4  | 1061.8 | 1137.2 | 1205.5 | 1251.2 | 1260.1 |
| 60°   | 597.5 | 609.5 | 633.2 | 679.5  | 748.4  | 832.6  | 929.6  | 1040.9 | 1161.7 | 1264.4 | 1325.7 |
| 62.5° | 383.2 | 394.6 | 419.6 | 459.8  | 515.9  | 607.3  | 711.2  | 843.4  | 1005.7 | 1167.8 | 1314.0 |
| 65°   | 197.0 | 203.1 | 216.2 | 240.6  | 284.4  | 352.6  | 445.7  | 577.6  | 763.2  | 963.3  | 1174.5 |
| 67.5° | 124.8 | 125.9 | 128.8 | 132.3  | 143.5  | 167.2  | 210.7  | 292.8  | 445.5  | 654.1  | 901.4  |
| 70°   | 107.8 | 107.8 | 106.4 | 106.0  | 107.3  | 110.6  | 117.4  | 136.5  | 188.0  | 310.5  | 519.8  |
| 72.5° | 98.8  | 97.7  | 95.3  | 93.5   | 93.1   | 93.1   | 94.4   | 97.3   | 105.6  | 126.5  | 203.6  |
| 75°   | 91.0  | 88.0  | 84.8  | 82.6   | 81.7   | 80.8   | 80.7   | 81.1   | 83.0   | 86.1   | 97.1   |
| 77.5° | 81.4  | 77.8  | 73.9  | 71.7   | 70.6   | 69.4   | 68.5   | 67.3   | 66.4   | 67.5   | 72.3   |
| 80°   | 70.2  | 65.8  | 62.9  | 61.5   | 60.5   | 58.7   | 56.6   | 54.4   | 52.6   | 52.2   | 55.2   |
| 82.5° | 56.6  | 51.6  | 51.7  | 52.2   | 50.3   | 47.9   | 45.5   | 43.3   | 40.0   | 38.3   | 40.0   |
| 85°   | 45.6  | 43.1  | 42.0  | 45.2   | 42.4   | 38.7   | 34.9   | 31.0   | 25.8   | 21.6   | 23.6   |
| 87.5° | 17.7  | 17.7  | 26.5  | 40.9   | 36.7   | 30.1   | 25.7   | 21.9   | 13.7   | 10.5   | 10.7   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 404.4  | 404.4  | 404.4  | 404.4  | 404.4  | 404.4  | 404.4  | 404.4  |
| 2.5°  | 405.1  | 405.5  | 405.3  | 405.1  | 405.1  | 405.0  | 405.1  | 405.1  |
| 5°    | 408.2  | 409.1  | 409.1  | 409.4  | 409.4  | 409.5  | 409.7  | 409.5  |
| 7.5°  | 413.0  | 414.5  | 415.5  | 416.6  | 416.9  | 417.1  | 417.4  | 417.1  |
| 10°   | 417.5  | 420.6  | 422.9  | 425.1  | 426.2  | 426.5  | 426.9  | 426.9  |
| 12.5° | 423.5  | 427.8  | 431.6  | 435.7  | 437.6  | 438.6  | 438.6  | 439.2  |
| 15°   | 433.1  | 437.4  | 442.1  | 447.4  | 450.6  | 452.3  | 452.8  | 452.8  |
| 17.5° | 446.6  | 450.5  | 454.5  | 459.7  | 463.7  | 466.0  | 466.5  | 466.3  |
| 20°   | 462.4  | 466.1  | 468.3  | 471.7  | 475.3  | 477.9  | 478.5  | 478.5  |
| 22.5° | 480.7  | 482.7  | 483.0  | 484.0  | 487.1  | 490.5  | 492.0  | 492.4  |
| 25°   | 500.6  | 501.2  | 499.7  | 499.7  | 501.7  | 504.8  | 506.5  | 506.6  |
| 27.5° | 526.4  | 523.9  | 520.4  | 519.2  | 520.4  | 524.3  | 526.0  | 526.8  |
| 30°   | 558.7  | 552.5  | 544.6  | 540.2  | 539.5  | 544.6  | 548.0  | 548.5  |
| 32.5° | 595.5  | 586.7  | 576.2  | 567.3  | 565.0  | 568.2  | 572.3  | 572.1  |
| 35°   | 639.4  | 628.6  | 615.9  | 604.6  | 599.4  | 602.7  | 608.5  | 609.2  |
| 37.5° | 689.8  | 675.9  | 661.2  | 647.0  | 639.0  | 639.9  | 646.1  | 648.0  |
| 40°   | 746.1  | 728.0  | 709.7  | 690.6  | 679.2  | 677.0  | 684.5  | 685.6  |
| 42.5° | 806.5  | 783.2  | 760.0  | 736.5  | 721.7  | 718.3  | 727.1  | 726.5  |
| 45°   | 870.7  | 841.2  | 814.0  | 788.1  | 770.4  | 765.3  | 772.5  | 772.5  |
| 47.5° | 939.8  | 903.3  | 870.9  | 841.6  | 822.5  | 815.1  | 821.9  | 822.5  |
| 50°   | 1013.1 | 974.3  | 936.3  | 903.7  | 880.8  | 871.3  | 880.2  | 881.6  |
| 52.5° | 1086.1 | 1048.2 | 1009.9 | 972.7  | 944.8  | 933.2  | 943.7  | 948.2  |
| 55°   | 1159.9 | 1122.9 | 1086.2 | 1049.8 | 1016.9 | 1003.2 | 1014.2 | 1019.9 |
| 57.5° | 1238.0 | 1203.6 | 1168.8 | 1132.0 | 1100.3 | 1079.1 | 1090.8 | 1098.4 |
| 60°   | 1329.5 | 1300.1 | 1263.8 | 1223.3 | 1191.3 | 1169.8 | 1176.5 | 1183.2 |
| 62.5° | 1401.8 | 1413.3 | 1382.4 | 1335.5 | 1294.4 | 1266.8 | 1273.3 | 1280.4 |
| 65°   | 1367.0 | 1483.6 | 1510.9 | 1463.6 | 1406.6 | 1363.5 | 1360.8 | 1364.4 |
| 67.5° | 1142.6 | 1369.1 | 1534.3 | 1579.5 | 1531.8 | 1472.2 | 1461.2 | 1466.6 |
| 70°   | 764.3  | 1046.5 | 1338.1 | 1555.2 | 1612.9 | 1589.9 | 1579.0 | 1582.4 |
| 72.5° | 367.0  | 609.5  | 907.7  | 1196.5 | 1372.3 | 1452.9 | 1478.7 | 1491.2 |
| 75°   | 134.2  | 242.0  | 437.6  | 659.4  | 796.0  | 921.4  | 1003.2 | 1036.7 |
| 77.5° | 80.9   | 97.7   | 139.7  | 210.5  | 238.3  | 266.7  | 255.7  | 261.2  |
| 80°   | 59.9   | 67.7   | 76.6   | 86.1   | 89.2   | 89.2   | 85.8   | 83.1   |
| 82.5° | 42.0   | 47.0   | 51.4   | 56.6   | 57.9   | 55.3   | 45.5   | 36.2   |
| 85°   | 27.0   | 29.3   | 31.3   | 34.5   | 33.5   | 32.1   | 21.5   | 19.1   |
| 87.5° | 12.3   | 14.2   | 14.8   | 16.3   | 15.7   | 15.0   | 10.7   | 9.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)