

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: P200539

Luminaire Tested: **GAP-AF-01-LED-U-5MQ-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200539  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAP-AF-01-LED-U-5MQ-8030-600  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3590 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 V - Short - 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

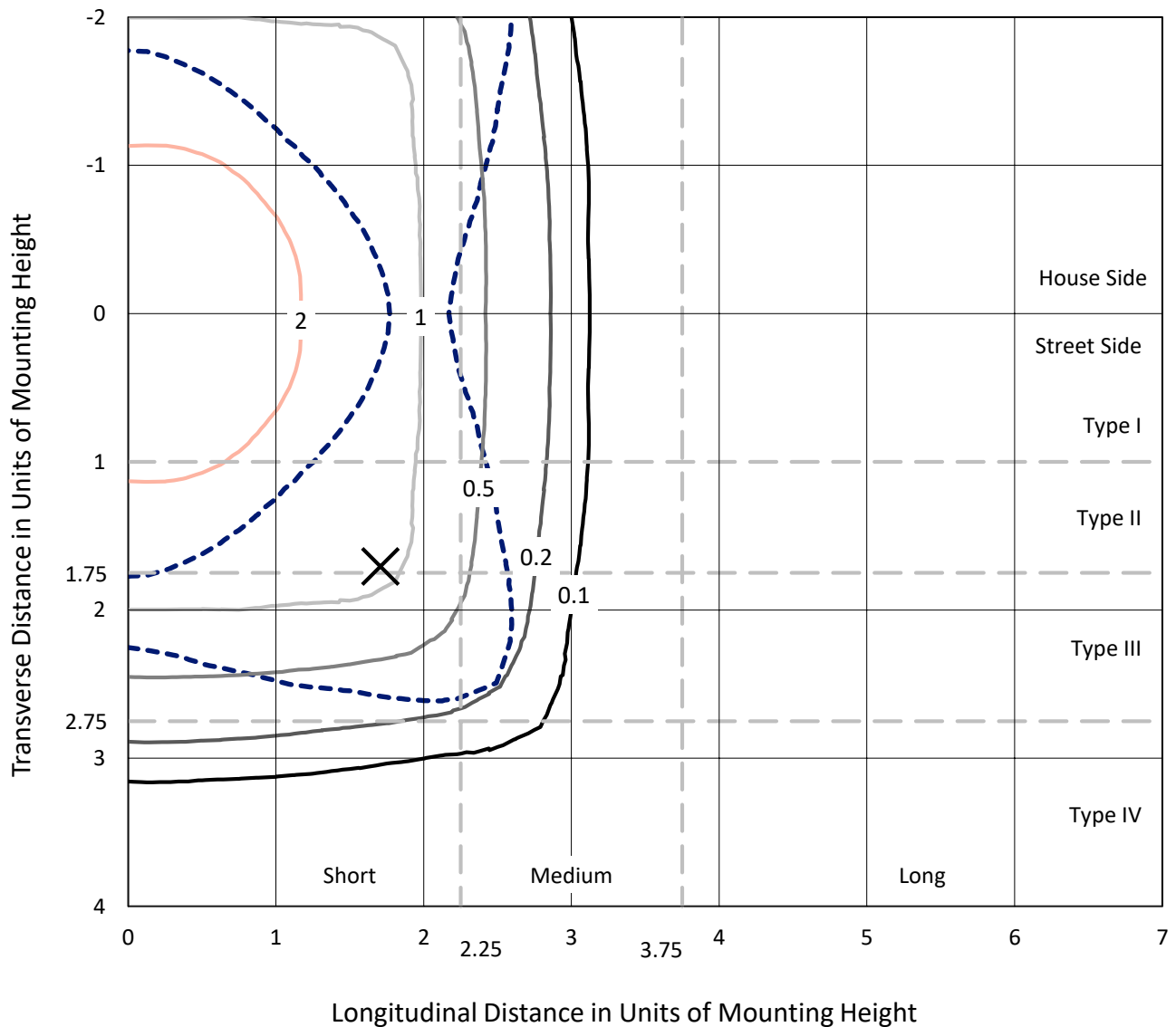


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

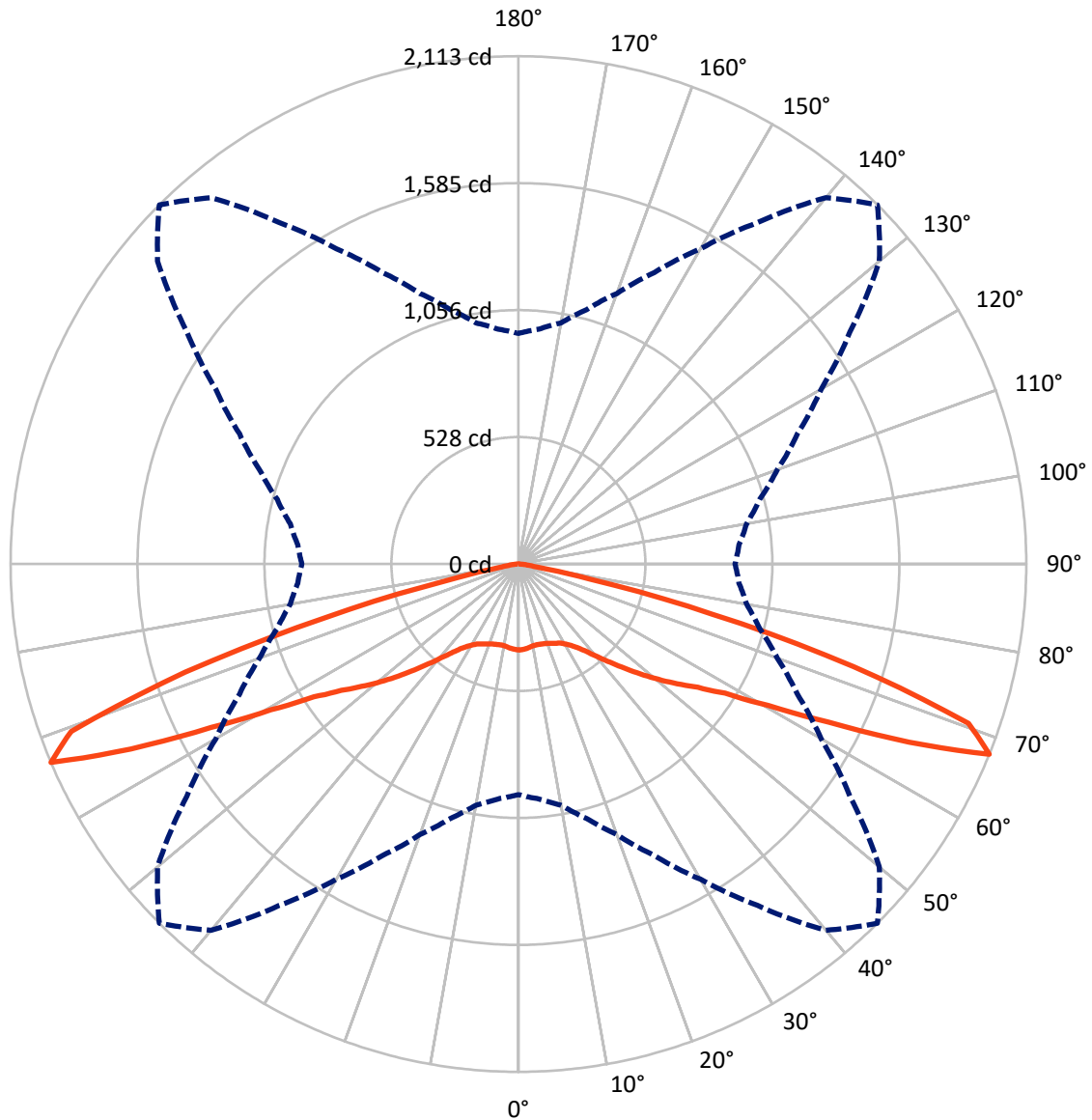


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1795.0   | 0.0    | 1795.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1795.0   | 0.0    | 1795.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 3590.0   | 0.0    | 3590.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 33.5   | 0.9       |
| 10°-20°   | 97.2   | 2.7       |
| 20°-30°   | 165.2  | 4.6       |
| 30°-40°   | 270.0  | 7.5       |
| 40°-50°   | 482.0  | 13.4      |
| 50°-60°   | 812.7  | 22.6      |
| 60°-70°   | 1261.2 | 35.1      |
| 70°-80°   | 443.1  | 12.3      |
| 80°-90°   | 25.0   | 0.7       |
| 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°    | 3590.0 | 100.0     |
| 0°-180°   | 3590.0 | 100.0     |



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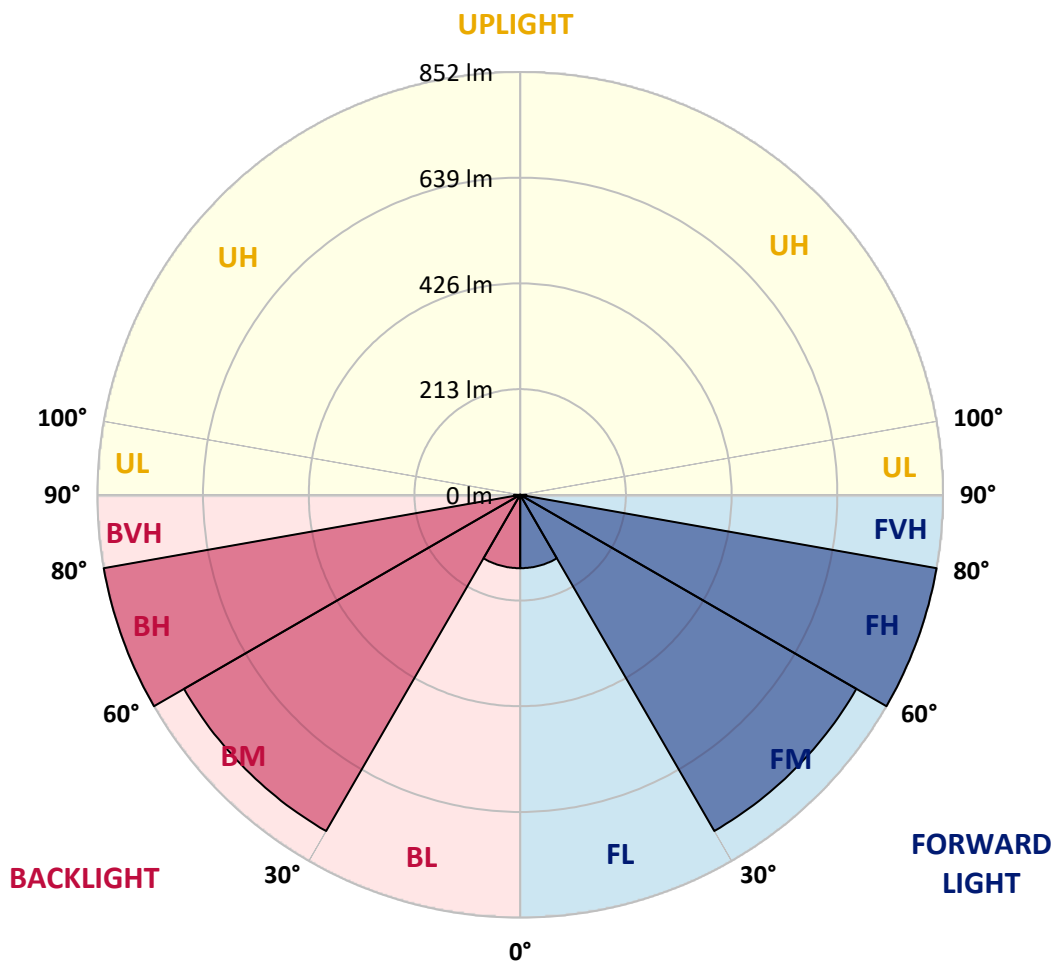
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 147.9  | 4.1       |                         |      |         |
| FM   | (30°-60°)   | 782.4  | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 852.2  | 23.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 12.5   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 147.9  | 4.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 782.4  | 21.8      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 852.2  | 23.7      | B2/1000                 |      | G1/1800 |
| BVH  | (80°-90°)   | 12.5   | 0.3       |                         |      | 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 357.8  | 357.8  | 357.8  | 357.8  | 357.8  | 357.8  | 357.8  | 357.8  | 357.8  | 357.8  | 357.8  |
| 2.5°  | 356.4  | 356.8  | 356.8  | 356.8  | 356.6  | 356.6  | 356.3  | 356.6  | 356.4  | 355.9  | 356.1  |
| 5°    | 353.5  | 353.8  | 353.8  | 353.6  | 354.1  | 354.0  | 353.5  | 353.8  | 353.6  | 353.3  | 353.5  |
| 7.5°  | 349.2  | 349.7  | 349.7  | 349.5  | 350.0  | 349.8  | 349.5  | 349.7  | 349.7  | 349.2  | 349.2  |
| 10°   | 344.4  | 344.7  | 344.7  | 344.6  | 345.4  | 345.4  | 345.2  | 345.7  | 345.9  | 345.4  | 345.0  |
| 12.5° | 339.9  | 340.4  | 340.4  | 341.1  | 341.9  | 342.2  | 343.1  | 343.7  | 344.4  | 344.2  | 343.6  |
| 15°   | 337.3  | 337.6  | 338.3  | 339.1  | 340.4  | 341.6  | 342.9  | 344.4  | 345.7  | 346.0  | 345.0  |
| 17.5° | 335.6  | 336.1  | 337.1  | 338.3  | 340.1  | 342.1  | 344.1  | 346.0  | 347.9  | 348.5  | 347.4  |
| 20°   | 335.1  | 335.5  | 336.5  | 338.4  | 340.9  | 343.9  | 346.7  | 349.0  | 351.5  | 352.3  | 351.5  |
| 22.5° | 336.1  | 336.8  | 337.9  | 340.3  | 343.6  | 347.4  | 350.7  | 353.8  | 356.9  | 358.4  | 357.3  |
| 25°   | 340.6  | 341.2  | 342.7  | 345.7  | 349.3  | 353.3  | 357.1  | 360.7  | 363.5  | 365.0  | 364.2  |
| 27.5° | 348.8  | 349.7  | 351.5  | 354.5  | 358.4  | 362.7  | 366.8  | 369.8  | 372.1  | 372.6  | 371.6  |
| 30°   | 361.2  | 363.0  | 365.2  | 368.5  | 373.1  | 376.7  | 380.9  | 383.5  | 386.3  | 386.3  | 385.5  |
| 32.5° | 380.5  | 382.4  | 384.7  | 387.8  | 391.4  | 395.4  | 399.0  | 401.3  | 404.3  | 404.5  | 402.5  |
| 35°   | 409.4  | 410.3  | 412.2  | 414.2  | 417.5  | 421.0  | 424.1  | 425.6  | 428.1  | 428.3  | 426.4  |
| 37.5° | 447.6  | 447.7  | 449.1  | 449.7  | 452.7  | 456.5  | 459.5  | 460.4  | 462.8  | 462.4  | 460.6  |
| 40°   | 492.0  | 492.8  | 493.3  | 494.3  | 497.4  | 501.1  | 504.2  | 504.7  | 507.2  | 506.7  | 504.4  |
| 42.5° | 543.3  | 543.7  | 546.5  | 547.9  | 550.9  | 552.7  | 556.7  | 557.2  | 560.2  | 558.8  | 556.2  |
| 45°   | 600.9  | 603.9  | 606.6  | 609.5  | 612.7  | 614.8  | 617.9  | 617.3  | 619.3  | 617.3  | 615.8  |
| 47.5° | 661.5  | 663.7  | 669.6  | 674.2  | 679.4  | 681.2  | 685.6  | 683.7  | 685.6  | 682.8  | 682.3  |
| 50°   | 728.2  | 732.0  | 737.1  | 742.4  | 747.9  | 750.8  | 756.6  | 754.1  | 756.8  | 754.1  | 752.7  |
| 52.5° | 793.9  | 794.9  | 806.2  | 813.9  | 821.5  | 825.0  | 828.4  | 827.3  | 827.5  | 827.3  | 825.8  |
| 55°   | 856.3  | 858.7  | 869.9  | 880.4  | 893.7  | 903.4  | 909.3  | 908.7  | 907.2  | 905.7  | 903.2  |
| 57.5° | 926.7  | 929.0  | 941.9  | 954.9  | 969.9  | 983.8  | 995.8  | 1008.2 | 1013.0 | 1014.3 | 1008.9 |
| 60°   | 1021.8 | 1021.6 | 1038.8 | 1054.6 | 1076.1 | 1096.7 | 1123.1 | 1150.0 | 1180.9 | 1195.3 | 1176.3 |
| 62.5° | 1118.5 | 1122.5 | 1147.2 | 1175.3 | 1219.5 | 1262.6 | 1311.3 | 1359.2 | 1408.1 | 1447.9 | 1405.6 |
| 65°   | 1107.0 | 1122.1 | 1159.0 | 1222.5 | 1304.2 | 1401.3 | 1506.3 | 1617.4 | 1717.8 | 1786.8 | 1709.4 |
| 67.5° | 959.4  | 981.0  | 1018.5 | 1095.7 | 1197.9 | 1337.9 | 1514.2 | 1734.0 | 1989.4 | 2112.9 | 1959.8 |
| 70°   | 695.4  | 719.8  | 759.1  | 834.6  | 935.8  | 1068.8 | 1260.3 | 1524.1 | 1862.3 | 1986.7 | 1818.2 |
| 72.5° | 346.0  | 359.2  | 383.5  | 431.6  | 508.2  | 616.1  | 789.8  | 1043.4 | 1342.5 | 1456.8 | 1302.8 |
| 75°   | 117.5  | 123.7  | 127.8  | 143.5  | 167.7  | 210.2  | 296.5  | 456.2  | 695.9  | 834.2  | 686.0  |
| 77.5° | 67.9   | 68.0   | 70.8   | 73.6   | 77.8   | 82.4   | 93.9   | 123.3  | 213.3  | 302.9  | 220.7  |
| 80°   | 43.9   | 43.7   | 46.1   | 48.2   | 51.0   | 53.3   | 54.0   | 57.1   | 65.9   | 78.1   | 69.8   |
| 82.5° | 22.8   | 25.6   | 30.7   | 33.5   | 38.8   | 39.8   | 38.5   | 37.3   | 39.5   | 40.9   | 41.9   |
| 85°   | 12.5   | 10.9   | 16.3   | 21.1   | 23.4   | 23.8   | 23.8   | 22.5   | 23.3   | 22.8   | 24.8   |
| 87.5° | 5.8    | 5.3    | 6.4    | 10.4   | 11.1   | 9.4    | 9.9    | 8.7    | 6.3    | 6.1    | 6.9    |
| 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°    | 357.8  | 357.8  | 357.8  | 357.8  | 357.8  | 357.8  | 357.8  | 357.8  |
| 2.5°  | 356.1  | 356.3  | 356.3  | 356.8  | 356.9  | 357.3  | 357.6  | 357.8  |
| 5°    | 353.3  | 353.8  | 353.5  | 354.0  | 354.0  | 354.3  | 354.3  | 354.5  |
| 7.5°  | 349.2  | 349.7  | 349.7  | 349.7  | 349.5  | 350.0  | 350.0  | 350.0  |
| 10°   | 344.9  | 345.2  | 345.0  | 344.7  | 344.4  | 344.9  | 344.7  | 344.6  |
| 12.5° | 343.6  | 342.7  | 342.1  | 341.7  | 341.1  | 341.2  | 340.8  | 340.8  |
| 15°   | 344.4  | 342.9  | 341.7  | 341.2  | 340.6  | 340.3  | 339.9  | 340.1  |
| 17.5° | 346.5  | 344.7  | 343.2  | 342.4  | 341.6  | 341.1  | 340.4  | 340.6  |
| 20°   | 350.3  | 348.2  | 346.0  | 344.4  | 342.9  | 342.1  | 341.6  | 341.4  |
| 22.5° | 355.9  | 352.8  | 349.7  | 347.2  | 345.2  | 344.1  | 343.6  | 343.2  |
| 25°   | 362.4  | 358.9  | 355.3  | 352.5  | 350.5  | 349.0  | 348.0  | 348.0  |
| 27.5° | 370.5  | 367.7  | 364.4  | 361.1  | 359.2  | 357.8  | 357.1  | 356.8  |
| 30°   | 384.0  | 381.4  | 378.7  | 375.6  | 373.3  | 371.8  | 370.6  | 369.6  |
| 32.5° | 401.3  | 399.2  | 397.1  | 394.7  | 392.6  | 390.6  | 388.8  | 388.0  |
| 35°   | 425.8  | 424.1  | 422.6  | 420.0  | 419.2  | 418.0  | 417.0  | 416.2  |
| 37.5° | 459.5  | 458.8  | 458.8  | 456.0  | 455.3  | 454.8  | 453.8  | 454.0  |
| 40°   | 503.7  | 504.4  | 503.5  | 502.5  | 502.1  | 500.7  | 500.7  | 501.9  |
| 42.5° | 556.0  | 556.5  | 558.3  | 556.7  | 558.5  | 556.9  | 555.9  | 556.7  |
| 45°   | 616.8  | 618.6  | 622.2  | 620.6  | 621.7  | 618.9  | 615.5  | 615.6  |
| 47.5° | 685.0  | 686.6  | 688.1  | 687.0  | 687.1  | 682.5  | 677.9  | 676.7  |
| 50°   | 755.8  | 756.5  | 757.3  | 755.6  | 756.0  | 750.8  | 745.6  | 745.7  |
| 52.5° | 825.8  | 828.9  | 832.2  | 827.8  | 826.8  | 821.0  | 813.6  | 810.6  |
| 55°   | 905.9  | 910.3  | 906.5  | 898.8  | 891.0  | 883.3  | 873.5  | 871.9  |
| 57.5° | 1004.6 | 997.0  | 985.1  | 970.4  | 959.7  | 948.8  | 938.9  | 934.8  |
| 60°   | 1142.0 | 1113.4 | 1091.9 | 1070.1 | 1056.4 | 1043.1 | 1030.0 | 1028.0 |
| 62.5° | 1336.1 | 1286.7 | 1244.0 | 1198.9 | 1162.1 | 1133.4 | 1110.4 | 1104.0 |
| 65°   | 1579.5 | 1462.7 | 1361.5 | 1267.1 | 1185.0 | 1123.1 | 1084.2 | 1067.0 |
| 67.5° | 1684.1 | 1453.7 | 1280.1 | 1146.1 | 1038.8 | 963.8  | 921.7  | 900.8  |
| 70°   | 1479.9 | 1205.5 | 1016.8 | 882.6  | 784.9  | 705.0  | 666.8  | 644.4  |
| 72.5° | 1018.1 | 766.9  | 606.4  | 495.0  | 416.9  | 350.0  | 323.6  | 321.6  |
| 75°   | 457.1  | 302.8  | 208.7  | 160.8  | 135.4  | 117.7  | 112.3  | 108.1  |
| 77.5° | 127.9  | 94.6   | 84.4   | 78.9   | 73.6   | 67.5   | 65.2   | 65.7   |
| 80°   | 62.2   | 58.8   | 56.5   | 53.0   | 48.2   | 43.1   | 40.8   | 41.8   |
| 82.5° | 41.3   | 40.8   | 42.3   | 39.8   | 32.9   | 27.9   | 23.4   | 21.5   |
| 85°   | 25.1   | 25.4   | 25.9   | 26.1   | 22.1   | 15.5   | 10.6   | 11.9   |
| 87.5° | 9.9    | 11.4   | 12.4   | 12.9   | 12.1   | 7.4    | 5.9    | 6.1    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)