

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: P148613

Luminaire Tested: **AVS-F02-LED-E-U-5XQ-8030**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P148613  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: AVS-F02-LED-E-U-5XQ-8030  
Description: VISION SITE SMALL LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (14) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 4431.8 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 55  
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

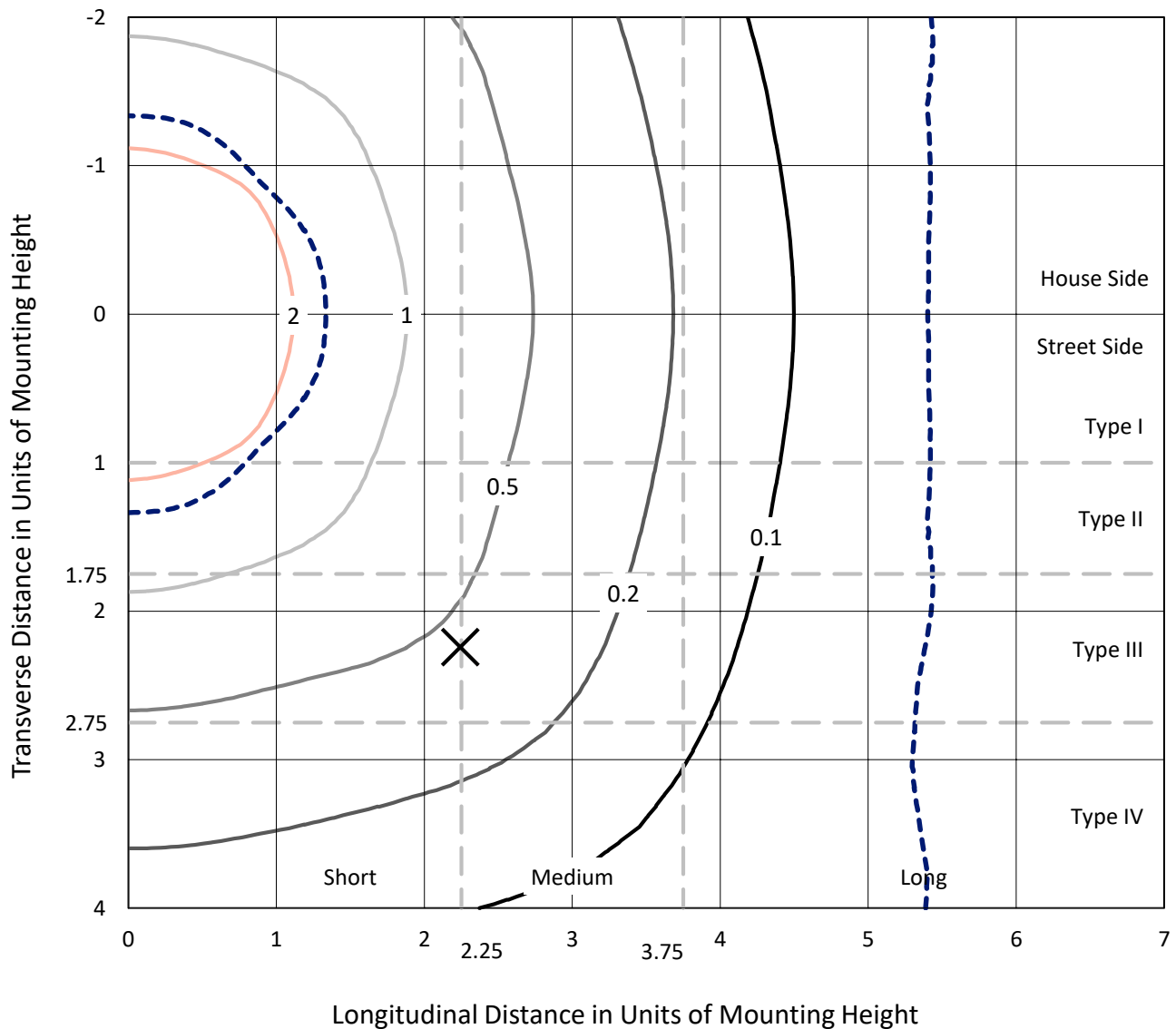


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

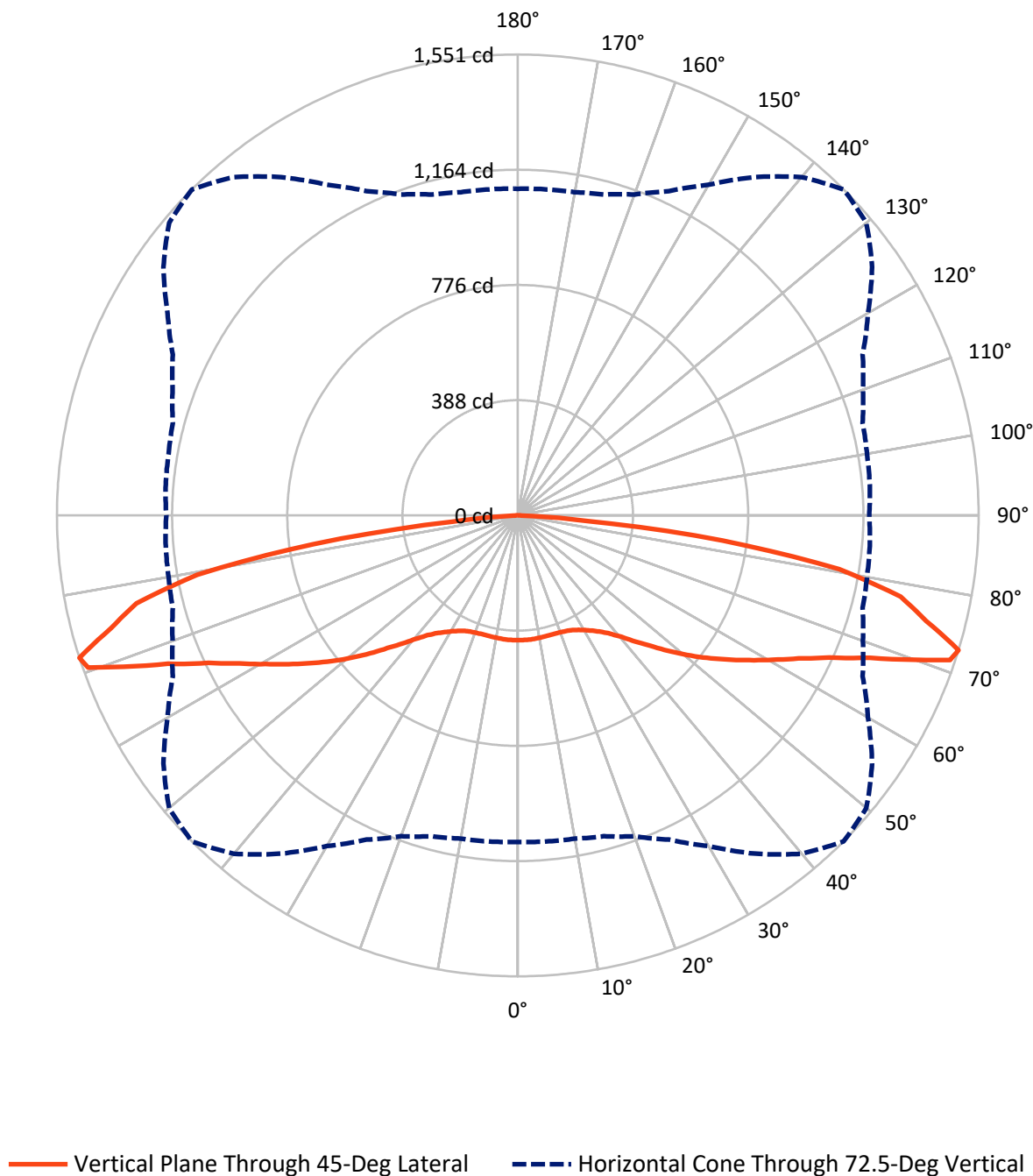


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc  
Type V - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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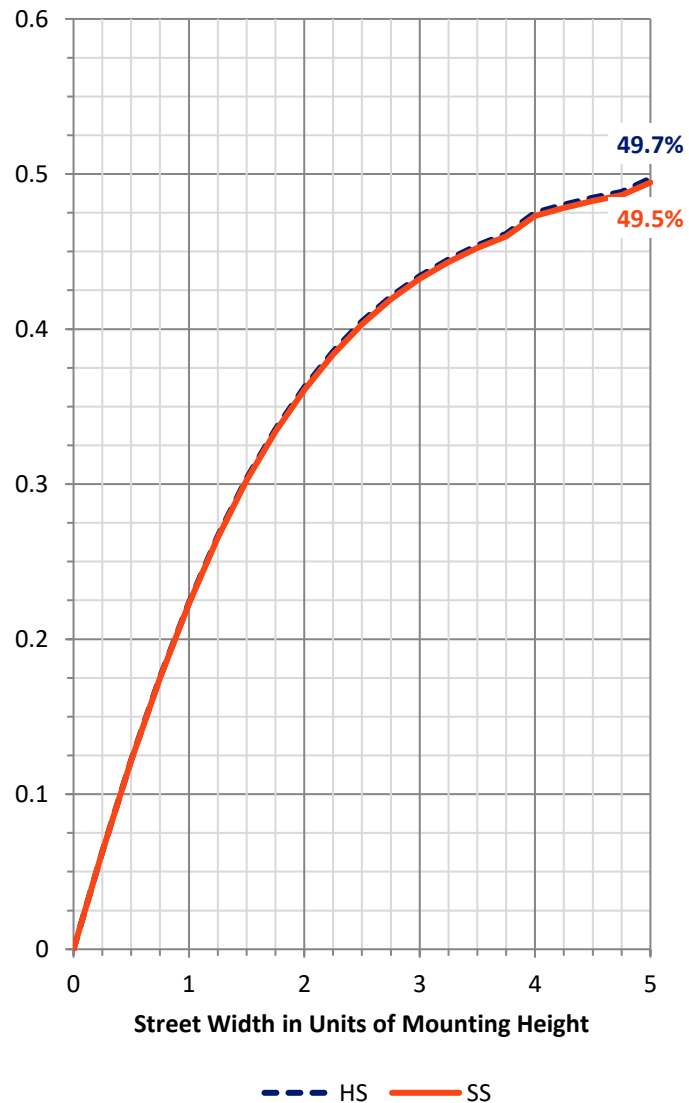
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2215.9   | 0.0    | 2215.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2215.9   | 0.0    | 2215.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4431.8   | 0.0    | 4431.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 40.0   | 0.9       |
| 10°-20°   | 118.4  | 2.7       |
| 20°-30°   | 198.2  | 4.5       |
| 30°-40°   | 302.2  | 6.8       |
| 40°-50°   | 482.5  | 10.9      |
| 50°-60°   | 741.9  | 16.7      |
| 60°-70°   | 1080.3 | 24.4      |
| 70°-80°   | 1216.9 | 27.5      |
| 80°-90°   | 251.2  | 5.7       |
| 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°    | 4431.8 | 100.0     |
| 0°-180°   | 4431.8 | 100.0     |

**Coefficient of Utilization**



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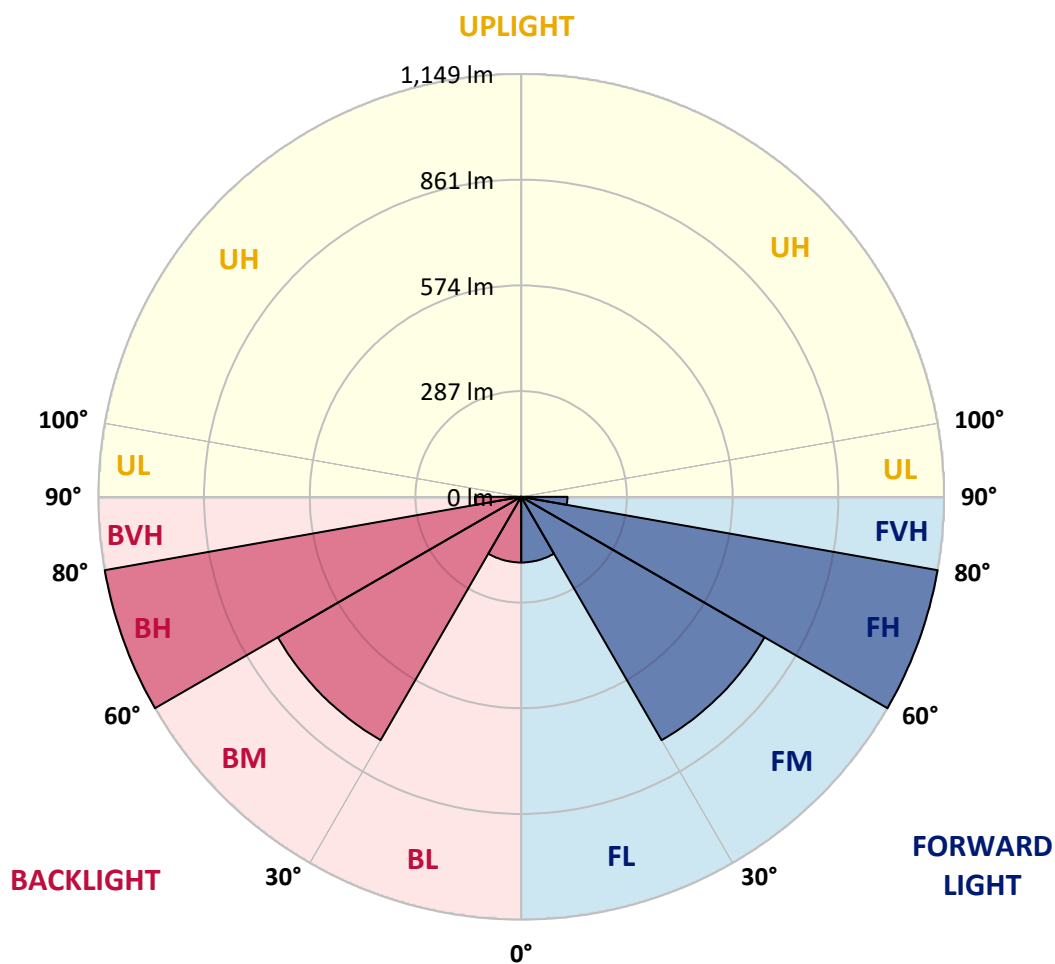
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 178.3  | 4.0       |                         |      |         |
| FM   | (30°-60°)   | 763.3  | 17.2      |                         |      |         |
| FH   | (60°-80°)   | 1148.6 | 25.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 125.6  | 2.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 178.3  | 4.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 763.3  | 17.2      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 1148.6 | 25.9      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 125.6  | 2.8       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 419.9  | 419.9  | 419.9  | 419.9  | 419.9  | 419.9  | 419.9  | 419.9  | 419.9  | 419.9  | 419.9  |
| 2.5°  | 420.5  | 420.8  | 420.7  | 420.5  | 420.6  | 420.5  | 420.2  | 420.1  | 419.3  | 419.8  | 420.5  |
| 5°    | 420.6  | 420.3  | 420.2  | 420.1  | 420.1  | 420.5  | 420.1  | 419.8  | 419.7  | 419.9  | 419.6  |
| 7.5°  | 420.3  | 419.9  | 419.7  | 419.5  | 419.7  | 419.8  | 419.5  | 419.0  | 419.3  | 419.0  | 418.5  |
| 10°   | 419.7  | 419.3  | 419.5  | 419.0  | 419.1  | 419.0  | 418.5  | 418.1  | 418.4  | 418.0  | 417.4  |
| 12.5° | 419.9  | 419.3  | 419.2  | 419.0  | 418.9  | 418.8  | 418.1  | 417.6  | 417.7  | 417.4  | 416.9  |
| 15°   | 419.9  | 419.6  | 419.5  | 419.0  | 418.9  | 418.7  | 417.9  | 417.7  | 417.7  | 417.3  | 416.7  |
| 17.5° | 420.1  | 419.9  | 419.9  | 419.3  | 419.1  | 419.0  | 418.1  | 417.8  | 418.1  | 417.4  | 417.0  |
| 20°   | 420.8  | 420.6  | 420.7  | 420.3  | 419.9  | 419.9  | 419.3  | 419.1  | 419.2  | 419.2  | 417.8  |
| 22.5° | 422.2  | 422.3  | 422.5  | 422.4  | 422.3  | 422.4  | 421.9  | 421.9  | 422.0  | 422.0  | 420.9  |
| 25°   | 426.1  | 426.1  | 426.3  | 426.3  | 426.4  | 427.2  | 426.9  | 426.7  | 427.4  | 427.4  | 426.3  |
| 27.5° | 433.6  | 433.4  | 433.6  | 433.8  | 434.4  | 435.4  | 435.2  | 435.6  | 436.5  | 436.3  | 435.3  |
| 30°   | 442.3  | 442.0  | 442.5  | 443.2  | 443.7  | 445.4  | 444.7  | 446.4  | 447.3  | 447.9  | 447.2  |
| 32.5° | 454.7  | 454.7  | 455.8  | 456.3  | 457.3  | 458.9  | 459.2  | 460.5  | 461.6  | 462.8  | 462.0  |
| 35°   | 471.5  | 471.2  | 472.0  | 472.8  | 474.2  | 475.6  | 476.3  | 478.1  | 479.7  | 480.5  | 479.0  |
| 37.5° | 497.0  | 495.8  | 497.2  | 497.7  | 498.8  | 499.1  | 500.7  | 503.0  | 504.8  | 504.6  | 503.5  |
| 40°   | 531.6  | 531.4  | 530.8  | 530.2  | 531.7  | 532.3  | 532.3  | 535.4  | 538.2  | 537.7  | 537.6  |
| 42.5° | 572.0  | 571.0  | 570.4  | 570.3  | 571.2  | 571.4  | 575.0  | 577.4  | 579.3  | 579.8  | 579.3  |
| 45°   | 615.5  | 614.4  | 614.6  | 614.1  | 614.5  | 616.1  | 618.1  | 622.4  | 626.1  | 626.2  | 624.2  |
| 47.5° | 662.2  | 658.9  | 661.5  | 657.8  | 660.1  | 661.1  | 666.4  | 672.7  | 679.2  | 680.4  | 678.7  |
| 50°   | 709.4  | 709.2  | 708.9  | 708.2  | 709.3  | 711.8  | 718.2  | 728.1  | 734.3  | 738.5  | 735.8  |
| 52.5° | 761.3  | 759.6  | 758.8  | 757.5  | 758.7  | 763.6  | 772.6  | 781.1  | 792.4  | 797.1  | 793.4  |
| 55°   | 811.7  | 811.1  | 808.1  | 808.0  | 810.2  | 818.0  | 827.7  | 838.2  | 850.5  | 855.9  | 854.4  |
| 57.5° | 863.5  | 860.1  | 859.2  | 857.8  | 862.2  | 869.5  | 881.5  | 900.5  | 913.2  | 919.3  | 915.8  |
| 60°   | 914.2  | 911.5  | 909.6  | 909.1  | 912.1  | 922.4  | 939.5  | 962.5  | 978.1  | 986.0  | 980.4  |
| 62.5° | 968.5  | 966.8  | 964.6  | 961.9  | 968.3  | 981.3  | 1002.7 | 1028.0 | 1051.2 | 1060.8 | 1052.4 |
| 65°   | 1036.1 | 1032.6 | 1030.2 | 1026.7 | 1032.0 | 1048.5 | 1075.2 | 1111.0 | 1142.0 | 1153.4 | 1147.4 |
| 67.5° | 1107.4 | 1104.2 | 1104.5 | 1102.4 | 1111.6 | 1134.5 | 1169.1 | 1217.5 | 1259.1 | 1278.4 | 1267.2 |
| 70°   | 1169.5 | 1171.4 | 1171.8 | 1180.3 | 1196.3 | 1231.1 | 1288.7 | 1364.6 | 1427.6 | 1457.2 | 1445.0 |
| 71°   | 1151.3 | 1155.0 | 1161.0 | 1169.8 | 1197.5 | 1238.7 | 1317.3 | 1409.1 | 1484.4 | 1534.5 | 1517.7 |
| 72.5° | 1099.3 | 1101.6 | 1104.6 | 1118.0 | 1149.2 | 1203.8 | 1284.8 | 1389.7 | 1486.4 | 1551.4 | 1531.9 |
| 75°   | 1024.0 | 1026.2 | 1027.2 | 1036.7 | 1065.1 | 1112.6 | 1186.7 | 1279.9 | 1365.2 | 1420.5 | 1415.1 |
| 77.5° | 910.4  | 910.8  | 918.9  | 933.4  | 965.3  | 1019.8 | 1097.8 | 1194.4 | 1274.7 | 1317.6 | 1290.4 |
| 80°   | 653.7  | 649.3  | 657.7  | 676.4  | 715.9  | 778.3  | 858.2  | 968.6  | 1057.6 | 1097.8 | 1055.5 |
| 82.5° | 248.7  | 262.2  | 283.4  | 314.3  | 327.7  | 397.1  | 471.7  | 536.5  | 611.5  | 695.3  | 674.3  |
| 85°   | 26.7   | 30.1   | 37.7   | 46.8   | 59.1   | 81.8   | 113.0  | 154.2  | 190.1  | 223.4  | 198.3  |
| 87.5° | 9.9    | 10.2   | 11.4   | 13.2   | 13.4   | 13.9   | 14.8   | 17.3   | 16.2   | 13.9   | 11.3   |
| 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°    | 419.9  | 419.9  | 419.9  | 419.9  | 419.9  | 419.9  | 419.9  | 419.9  |
| 2.5°  | 419.9  | 420.0  | 419.9  | 420.0  | 420.1  | 419.6  | 419.7  | 419.5  |
| 5°    | 419.8  | 419.5  | 419.5  | 419.7  | 419.5  | 419.8  | 419.5  | 419.7  |
| 7.5°  | 419.2  | 418.4  | 418.8  | 418.8  | 418.5  | 418.9  | 418.7  | 418.5  |
| 10°   | 418.0  | 417.1  | 417.6  | 417.4  | 417.3  | 417.4  | 417.4  | 417.4  |
| 12.5° | 417.0  | 416.4  | 416.6  | 416.4  | 416.3  | 416.7  | 416.6  | 416.6  |
| 15°   | 416.8  | 415.9  | 415.8  | 415.5  | 415.5  | 415.9  | 415.9  | 416.2  |
| 17.5° | 416.6  | 415.3  | 415.2  | 415.0  | 415.1  | 415.6  | 415.8  | 415.5  |
| 20°   | 417.2  | 416.4  | 416.1  | 415.9  | 415.8  | 416.4  | 416.2  | 416.2  |
| 22.5° | 420.5  | 419.4  | 419.2  | 418.2  | 417.9  | 418.2  | 418.0  | 418.0  |
| 25°   | 425.7  | 424.4  | 423.8  | 422.6  | 421.7  | 421.7  | 421.2  | 421.0  |
| 27.5° | 435.1  | 433.1  | 432.5  | 431.5  | 430.3  | 430.5  | 429.7  | 429.6  |
| 30°   | 446.0  | 444.1  | 442.5  | 441.0  | 439.5  | 439.0  | 438.1  | 438.0  |
| 32.5° | 460.3  | 458.2  | 456.3  | 454.4  | 452.3  | 451.5  | 450.1  | 449.4  |
| 35°   | 477.8  | 475.0  | 472.7  | 471.5  | 469.3  | 468.3  | 467.4  | 468.4  |
| 37.5° | 502.4  | 499.0  | 497.8  | 496.3  | 494.9  | 493.3  | 493.7  | 493.3  |
| 40°   | 536.3  | 533.3  | 532.0  | 529.4  | 529.1  | 527.3  | 528.4  | 527.2  |
| 42.5° | 578.2  | 572.6  | 571.8  | 569.6  | 569.0  | 568.0  | 568.5  | 567.7  |
| 45°   | 623.8  | 618.9  | 617.8  | 614.5  | 614.6  | 612.2  | 613.2  | 613.2  |
| 47.5° | 675.1  | 669.9  | 665.6  | 663.2  | 662.3  | 660.7  | 661.6  | 661.5  |
| 50°   | 728.1  | 721.0  | 716.3  | 711.5  | 709.4  | 709.9  | 708.4  | 711.1  |
| 52.5° | 785.0  | 774.4  | 767.7  | 763.1  | 759.2  | 760.0  | 760.3  | 761.0  |
| 55°   | 843.8  | 830.4  | 820.6  | 814.7  | 811.1  | 811.3  | 812.4  | 813.3  |
| 57.5° | 903.1  | 886.2  | 873.1  | 864.2  | 861.9  | 862.9  | 862.9  | 862.8  |
| 60°   | 964.6  | 944.2  | 927.3  | 917.2  | 915.1  | 914.6  | 919.2  | 917.5  |
| 62.5° | 1030.5 | 1006.2 | 988.6  | 975.8  | 972.7  | 974.8  | 978.9  | 978.0  |
| 65°   | 1117.9 | 1084.4 | 1061.6 | 1048.9 | 1043.8 | 1045.9 | 1051.4 | 1051.2 |
| 67.5° | 1230.7 | 1183.7 | 1153.7 | 1137.4 | 1133.7 | 1136.3 | 1139.3 | 1142.2 |
| 70°   | 1399.3 | 1332.2 | 1289.3 | 1254.1 | 1239.0 | 1236.2 | 1239.2 | 1239.3 |
| 71°   | 1458.7 | 1381.7 | 1313.3 | 1270.3 | 1245.5 | 1235.0 | 1235.9 | 1230.7 |
| 72.5° | 1456.2 | 1361.3 | 1281.2 | 1236.4 | 1202.0 | 1193.7 | 1189.5 | 1183.2 |
| 75°   | 1358.0 | 1272.5 | 1203.1 | 1154.1 | 1121.0 | 1111.2 | 1103.9 | 1103.6 |
| 77.5° | 1231.6 | 1168.5 | 1092.0 | 1040.1 | 999.8  | 983.4  | 976.2  | 976.0  |
| 80°   | 990.1  | 895.6  | 839.7  | 808.4  | 759.8  | 745.8  | 730.9  | 725.3  |
| 82.5° | 598.8  | 467.9  | 380.4  | 338.0  | 314.6  | 259.1  | 232.5  | 219.9  |
| 85°   | 139.5  | 99.1   | 68.3   | 44.9   | 32.3   | 25.7   | 19.7   | 17.4   |
| 87.5° | 9.4    | 7.5    | 6.6    | 5.4    | 4.0    | 3.9    | 2.5    | 2.1    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)