

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: P402588

Luminaire Tested: **GAN-AF-03-LED-U-SL3-AMB**

Issue Date: 6/8/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P402588  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/8/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-03-LED-U-SL3-AMB  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3389 lumens  
Efficiency: N/A  
Efficacy: 55.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G1

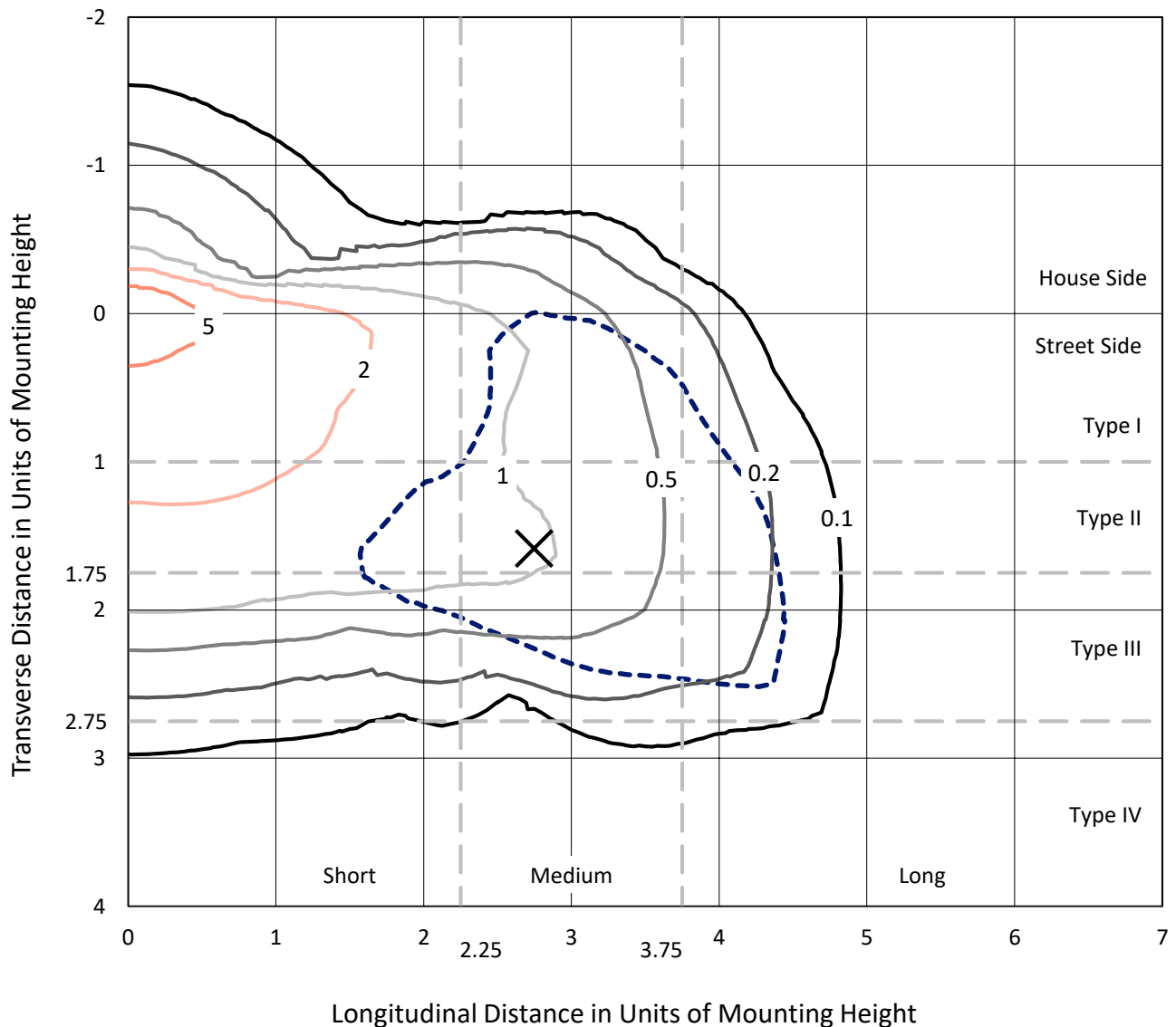
Input Watts (W): 61.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

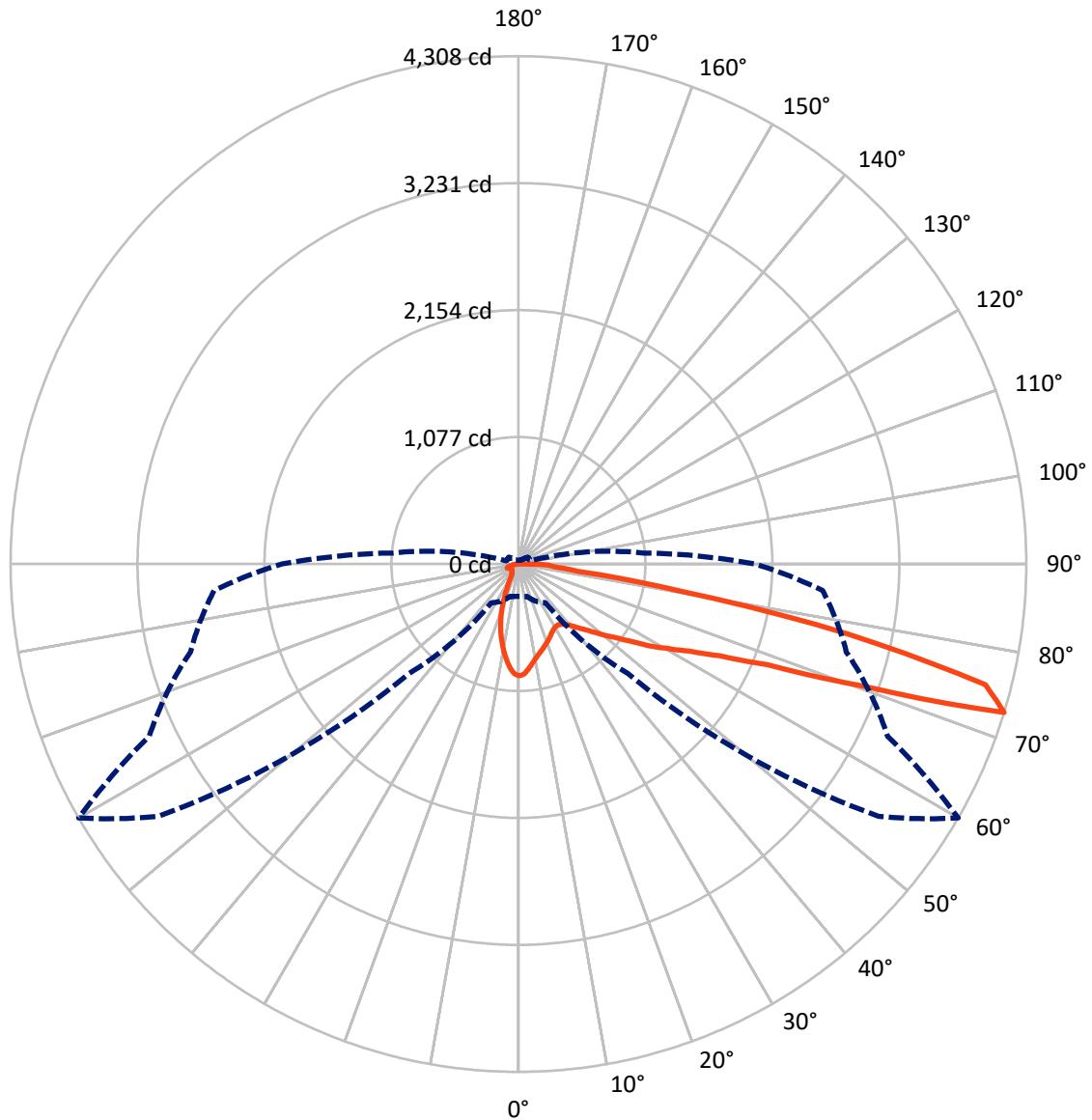


Based on 10 foot mounting height. Maximum calculated value = 9.5 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical



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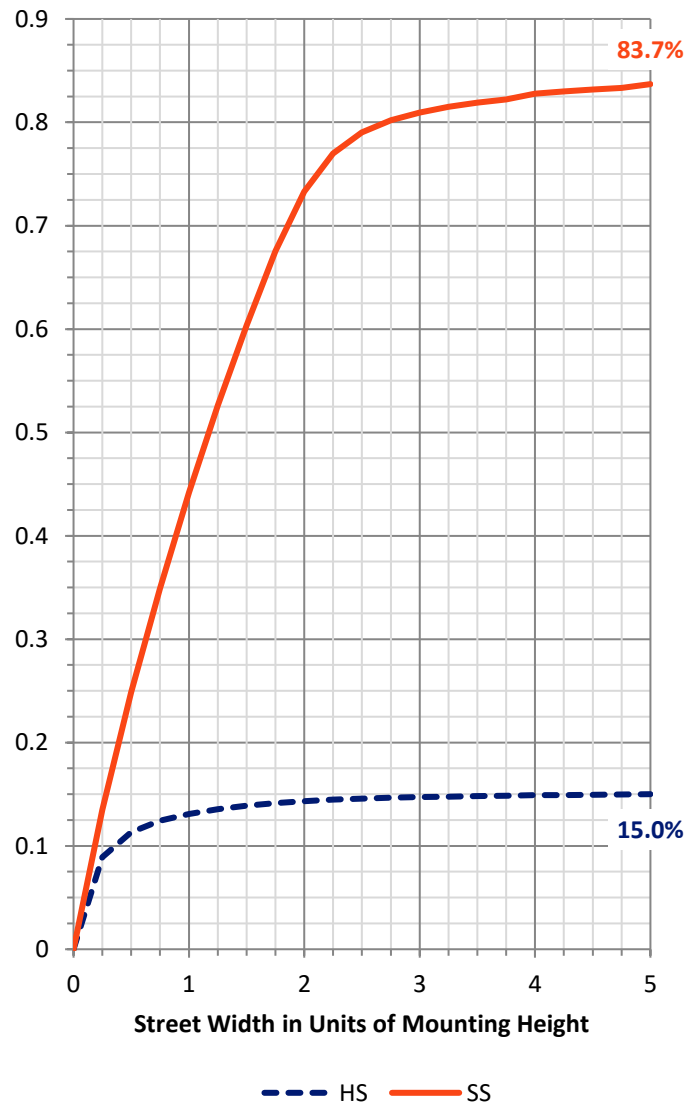
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 514.9    | 0.0    | 514.9  |
|                    | % Fixture | 15.2     | 0.0    | 15.2   |
| <b>Street Side</b> | Lumens    | 2874.1   | 0.0    | 2874.1 |
|                    | % Fixture | 84.8     | 0.0    | 84.8   |
| <b>Total</b>       | Lumens    | 3389.0   | 0.0    | 3389.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 79.5   | 2.3       |
| 10°-20°   | 168.8  | 5.0       |
| 20°-30°   | 208.7  | 6.2       |
| 30°-40°   | 263.8  | 7.8       |
| 40°-50°   | 374.7  | 11.1      |
| 50°-60°   | 571.3  | 16.9      |
| 60°-70°   | 861.7  | 25.4      |
| 70°-80°   | 758.0  | 22.4      |
| 80°-90°   | 102.4  | 3.0       |
| 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°    | 3389.0 | 100.0     |
| 0°-180°   | 3389.0 | 100.0     |

**Coefficient of Utilization**



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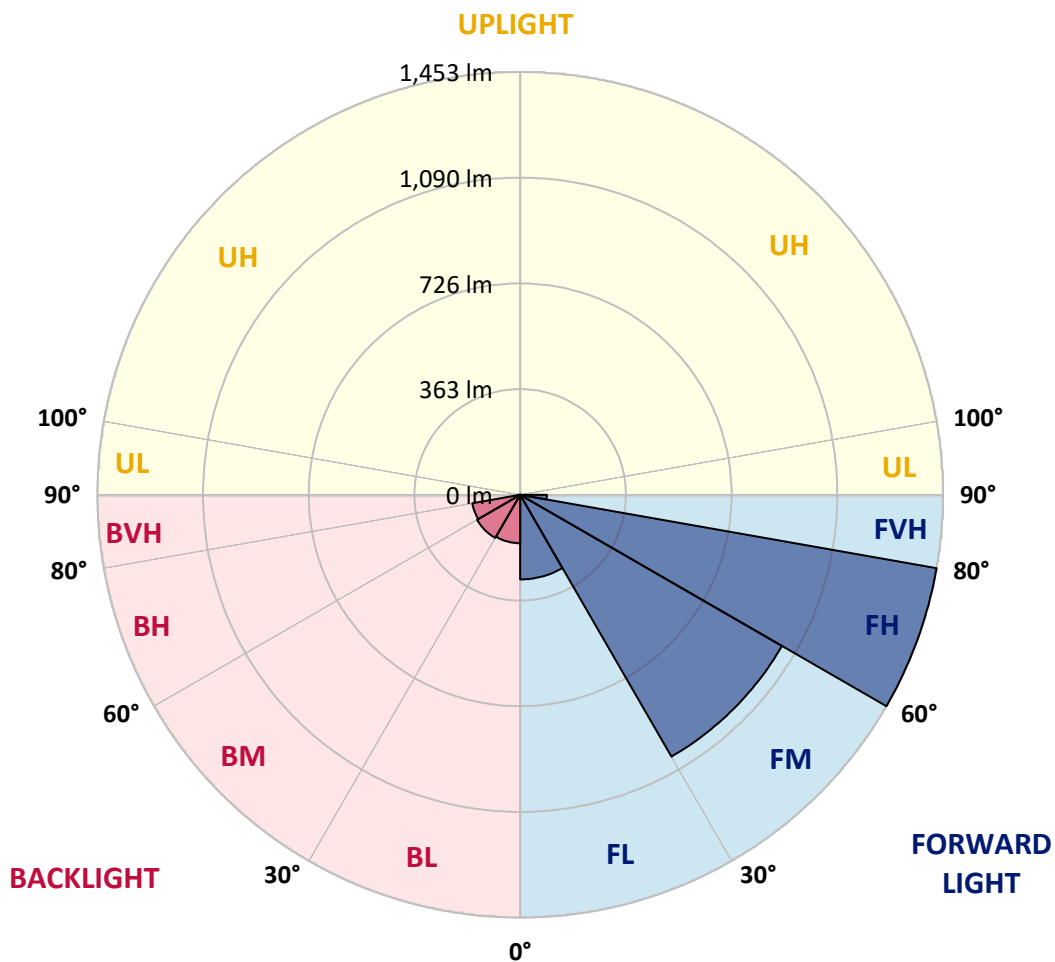
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 290.7  | 8.6       |                         |      |         |
| FM (30°-60°)   | 1038.7 | 30.6      |                         |      |         |
| FH (60°-80°)   | 1452.9 | 42.9      |                         |      | G1/1800 |
| FVH (80°-90°)  | 91.7   | 2.7       |                         |      | G1/100  |
| BL (0°-30°)    | 166.3  | 4.9       | B1/500                  |      |         |
| BM (30°-60°)   | 171.1  | 5.0       | B0/220                  |      |         |
| BH (60°-80°)   | 166.8  | 4.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 10.7   | 0.3       |                         |      | 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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 947.4  | 947.4  | 947.4  | 947.4  | 947.4  | 947.4  | 947.4  | 947.4  | 947.4  | 947.4  | 947.4  |
| 2.5°  | 921.3  | 921.3  | 921.3  | 927.1  | 928.5  | 928.5  | 934.3  | 934.3  | 932.9  | 938.7  | 937.2  |
| 5°    | 864.8  | 867.7  | 867.7  | 870.6  | 879.3  | 883.6  | 892.3  | 893.8  | 898.1  | 906.8  | 912.6  |
| 7.5°  | 795.3  | 799.6  | 806.8  | 818.4  | 827.1  | 834.4  | 850.3  | 850.3  | 857.5  | 870.6  | 880.7  |
| 10°   | 730.1  | 731.5  | 737.3  | 750.4  | 767.7  | 786.6  | 805.4  | 811.2  | 819.9  | 835.8  | 851.8  |
| 12.5° | 685.2  | 688.1  | 691.0  | 702.5  | 721.4  | 740.2  | 769.2  | 780.8  | 790.9  | 809.7  | 831.5  |
| 15°   | 637.4  | 638.8  | 646.1  | 660.5  | 683.7  | 704.0  | 737.3  | 753.2  | 769.2  | 793.8  | 817.0  |
| 17.5° | 605.5  | 604.0  | 609.8  | 620.0  | 644.6  | 672.1  | 708.3  | 727.2  | 746.0  | 779.3  | 803.9  |
| 20°   | 588.1  | 589.6  | 589.6  | 592.5  | 608.4  | 635.9  | 677.9  | 702.5  | 727.2  | 770.6  | 796.7  |
| 22.5° | 583.8  | 583.8  | 579.4  | 578.0  | 585.2  | 608.4  | 650.4  | 677.9  | 706.9  | 769.2  | 792.4  |
| 25°   | 583.8  | 583.8  | 579.4  | 573.6  | 573.6  | 586.7  | 624.3  | 650.4  | 685.2  | 770.6  | 786.6  |
| 27.5° | 593.9  | 593.9  | 588.1  | 579.4  | 572.2  | 575.1  | 604.0  | 631.6  | 670.7  | 773.5  | 782.2  |
| 30°   | 609.8  | 608.4  | 604.0  | 596.8  | 582.3  | 572.2  | 593.9  | 618.5  | 656.2  | 780.8  | 779.3  |
| 32.5° | 625.8  | 627.2  | 624.3  | 618.5  | 602.6  | 580.9  | 592.5  | 615.6  | 653.3  | 790.9  | 779.3  |
| 35°   | 650.4  | 651.8  | 651.8  | 646.1  | 633.0  | 602.6  | 606.9  | 627.2  | 662.0  | 806.8  | 785.1  |
| 37.5° | 677.9  | 677.9  | 682.3  | 682.3  | 666.3  | 633.0  | 634.5  | 650.4  | 679.4  | 828.6  | 799.6  |
| 40°   | 705.4  | 705.4  | 712.7  | 722.8  | 709.8  | 675.0  | 676.5  | 688.1  | 714.1  | 859.0  | 828.6  |
| 42.5° | 740.2  | 737.3  | 753.2  | 766.3  | 760.5  | 728.6  | 721.4  | 735.9  | 754.7  | 901.0  | 872.0  |
| 45°   | 764.8  | 764.8  | 789.5  | 805.4  | 818.4  | 786.6  | 782.2  | 793.8  | 812.6  | 947.4  | 932.9  |
| 47.5° | 793.8  | 795.3  | 821.3  | 854.6  | 874.9  | 856.1  | 850.3  | 866.2  | 879.3  | 1008.2 | 1009.6 |
| 50°   | 818.4  | 822.8  | 857.5  | 905.3  | 938.7  | 940.1  | 930.0  | 950.3  | 950.3  | 1076.3 | 1099.5 |
| 52.5° | 851.8  | 859.0  | 903.9  | 956.0  | 1011.1 | 1029.9 | 1032.8 | 1038.6 | 1040.1 | 1160.3 | 1199.4 |
| 55°   | 935.8  | 944.5  | 982.1  | 1025.6 | 1090.8 | 1134.2 | 1164.6 | 1154.5 | 1142.9 | 1251.6 | 1303.7 |
| 57.5° | 1085.0 | 1077.7 | 1092.2 | 1102.3 | 1166.1 | 1237.1 | 1312.4 | 1308.0 | 1273.3 | 1357.3 | 1415.2 |
| 60°   | 1213.9 | 1216.8 | 1235.6 | 1211.0 | 1253.0 | 1364.5 | 1452.9 | 1454.3 | 1395.0 | 1470.3 | 1518.1 |
| 62.5° | 1225.5 | 1244.3 | 1324.0 | 1379.0 | 1442.8 | 1512.3 | 1647.0 | 1628.2 | 1551.4 | 1580.4 | 1638.3 |
| 65°   | 998.1  | 1022.7 | 1153.0 | 1332.7 | 1661.5 | 1957.0 | 1884.6 | 1875.9 | 1742.6 | 1733.9 | 1807.8 |
| 67.5° | 514.2  | 533.1  | 602.6  | 934.3  | 1494.9 | 2416.2 | 2464.0 | 2277.1 | 2006.2 | 1968.6 | 2058.4 |
| 70°   | 352.0  | 353.4  | 353.4  | 425.9  | 730.1  | 2214.8 | 3505.5 | 3110.0 | 2530.6 | 2359.7 | 2472.7 |
| 72.5° | 275.2  | 275.2  | 285.4  | 347.7  | 401.2  | 1313.8 | 3731.5 | 4308.0 | 3456.3 | 2879.7 | 2591.5 |
| 75°   | 205.7  | 207.1  | 226.0  | 289.7  | 391.1  | 392.6  | 3121.6 | 4092.2 | 3903.9 | 2840.6 | 2013.5 |
| 77.5° | 156.4  | 153.5  | 178.2  | 239.0  | 381.0  | 357.8  | 1684.7 | 2859.4 | 2763.8 | 1930.9 | 730.1  |
| 80°   | 98.5   | 102.8  | 120.2  | 199.9  | 365.0  | 357.8  | 589.6  | 1395.0 | 1116.8 | 462.1  | 123.1  |
| 82.5° | 56.5   | 59.4   | 75.3   | 124.6  | 327.4  | 356.3  | 367.9  | 505.5  | 276.7  | 114.4  | 57.9   |
| 85°   | 33.3   | 33.3   | 47.8   | 78.2   | 237.6  | 352.0  | 357.8  | 304.2  | 153.5  | 59.4   | 30.4   |
| 87.5° | 14.5   | 17.4   | 27.5   | 37.7   | 107.2  | 297.0  | 324.5  | 257.8  | 111.5  | 33.3   | 15.9   |
| 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):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 947.4  | 947.4  | 947.4 | 947.4 | 947.4 | 947.4 | 947.4 | 947.4 | 947.4 | 947.4 | 947.4 |
| 2.5°  | 935.8  | 935.8  | 932.9 | 932.9 | 934.3 | 927.1 | 925.6 | 921.3 | 924.2 | 922.7 | 916.9 |
| 5°    | 911.1  | 909.7  | 906.8 | 890.9 | 882.2 | 860.4 | 860.4 | 847.4 | 843.1 | 843.1 | 834.4 |
| 7.5°  | 880.7  | 876.4  | 857.5 | 831.5 | 806.8 | 783.7 | 761.9 | 746.0 | 734.4 | 724.3 | 725.7 |
| 10°   | 851.8  | 843.1  | 812.6 | 767.7 | 728.6 | 685.2 | 651.8 | 614.2 | 593.9 | 564.9 | 576.5 |
| 12.5° | 828.6  | 815.5  | 766.3 | 702.5 | 644.6 | 580.9 | 514.2 | 457.7 | 411.4 | 382.4 | 365.0 |
| 15°   | 809.7  | 788.0  | 715.6 | 635.9 | 557.7 | 465.0 | 375.2 | 298.4 | 240.5 | 223.1 | 224.5 |
| 17.5° | 792.4  | 761.9  | 670.7 | 567.8 | 462.1 | 349.1 | 246.3 | 195.6 | 176.7 | 168.0 | 168.0 |
| 20°   | 776.4  | 731.5  | 612.7 | 492.5 | 356.3 | 234.7 | 176.7 | 159.3 | 152.1 | 147.8 | 146.3 |
| 22.5° | 756.1  | 704.0  | 556.2 | 414.3 | 254.9 | 169.5 | 146.3 | 137.6 | 136.2 | 136.2 | 136.2 |
| 25°   | 740.2  | 670.7  | 496.9 | 317.2 | 176.7 | 137.6 | 126.0 | 124.6 | 126.0 | 127.5 | 127.5 |
| 27.5° | 721.4  | 637.4  | 437.5 | 223.1 | 134.7 | 115.9 | 111.5 | 114.4 | 117.3 | 120.2 | 120.2 |
| 30°   | 704.0  | 605.5  | 373.7 | 156.4 | 111.5 | 101.4 | 101.4 | 104.3 | 108.6 | 111.5 | 111.5 |
| 32.5° | 692.4  | 582.3  | 298.4 | 123.1 | 98.5  | 92.7  | 94.2  | 95.6  | 100.0 | 101.4 | 101.4 |
| 35°   | 683.7  | 559.1  | 224.5 | 104.3 | 89.8  | 86.9  | 88.4  | 89.8  | 91.3  | 92.7  | 92.7  |
| 37.5° | 685.2  | 546.1  | 160.8 | 92.7  | 84.0  | 82.6  | 84.0  | 84.0  | 84.0  | 85.5  | 85.5  |
| 40°   | 702.5  | 540.3  | 127.5 | 85.5  | 81.1  | 79.7  | 79.7  | 78.2  | 78.2  | 79.7  | 79.7  |
| 42.5° | 728.6  | 541.8  | 113.0 | 82.6  | 78.2  | 76.8  | 75.3  | 73.9  | 73.9  | 73.9  | 73.9  |
| 45°   | 770.6  | 556.2  | 104.3 | 79.7  | 76.8  | 73.9  | 71.0  | 69.5  | 69.5  | 72.4  | 72.4  |
| 47.5° | 832.9  | 578.0  | 95.6  | 78.2  | 73.9  | 69.5  | 68.1  | 66.6  | 68.1  | 69.5  | 71.0  |
| 50°   | 905.3  | 596.8  | 91.3  | 76.8  | 73.9  | 66.6  | 65.2  | 63.7  | 65.2  | 69.5  | 69.5  |
| 52.5° | 989.4  | 624.3  | 89.8  | 76.8  | 72.4  | 65.2  | 62.3  | 62.3  | 63.7  | 68.1  | 68.1  |
| 55°   | 1083.5 | 666.3  | 91.3  | 76.8  | 71.0  | 63.7  | 60.8  | 59.4  | 62.3  | 65.2  | 65.2  |
| 57.5° | 1182.0 | 722.8  | 94.2  | 76.8  | 68.1  | 63.7  | 59.4  | 56.5  | 57.9  | 60.8  | 60.8  |
| 60°   | 1280.5 | 799.6  | 98.5  | 75.3  | 66.6  | 62.3  | 57.9  | 53.6  | 53.6  | 56.5  | 56.5  |
| 62.5° | 1397.9 | 895.2  | 113.0 | 78.2  | 66.6  | 59.4  | 53.6  | 49.3  | 49.3  | 50.7  | 50.7  |
| 65°   | 1551.4 | 1034.3 | 134.7 | 88.4  | 72.4  | 56.5  | 49.3  | 44.9  | 44.9  | 44.9  | 44.9  |
| 67.5° | 1804.9 | 1255.9 | 143.4 | 98.5  | 82.6  | 56.5  | 46.4  | 42.0  | 40.6  | 40.6  | 39.1  |
| 70°   | 2135.2 | 1400.8 | 127.5 | 102.8 | 98.5  | 57.9  | 43.5  | 37.7  | 36.2  | 36.2  | 34.8  |
| 72.5° | 2004.8 | 1067.6 | 108.6 | 100.0 | 100.0 | 59.4  | 42.0  | 36.2  | 33.3  | 31.9  | 31.9  |
| 75°   | 1377.6 | 495.4  | 95.6  | 92.7  | 86.9  | 50.7  | 39.1  | 33.3  | 30.4  | 27.5  | 27.5  |
| 77.5° | 405.6  | 133.3  | 79.7  | 81.1  | 66.6  | 42.0  | 36.2  | 30.4  | 27.5  | 24.6  | 24.6  |
| 80°   | 95.6   | 76.8   | 57.9  | 59.4  | 44.9  | 31.9  | 29.0  | 27.5  | 24.6  | 21.7  | 21.7  |
| 82.5° | 55.0   | 49.3   | 40.6  | 37.7  | 27.5  | 21.7  | 23.2  | 23.2  | 21.7  | 18.8  | 17.4  |
| 85°   | 27.5   | 29.0   | 24.6  | 21.7  | 17.4  | 14.5  | 14.5  | 15.9  | 14.5  | 11.6  | 11.6  |
| 87.5° | 15.9   | 14.5   | 15.9  | 11.6  | 8.7   | 7.2   | 8.7   | 8.7   | 8.7   | 5.8   | 5.8   |
| 90°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)