

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: P450343

Luminaire Tested: **GLAN-SA1A-827-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450343  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1A-827-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2814 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

Input Watts (W): 33  
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: 24 FT

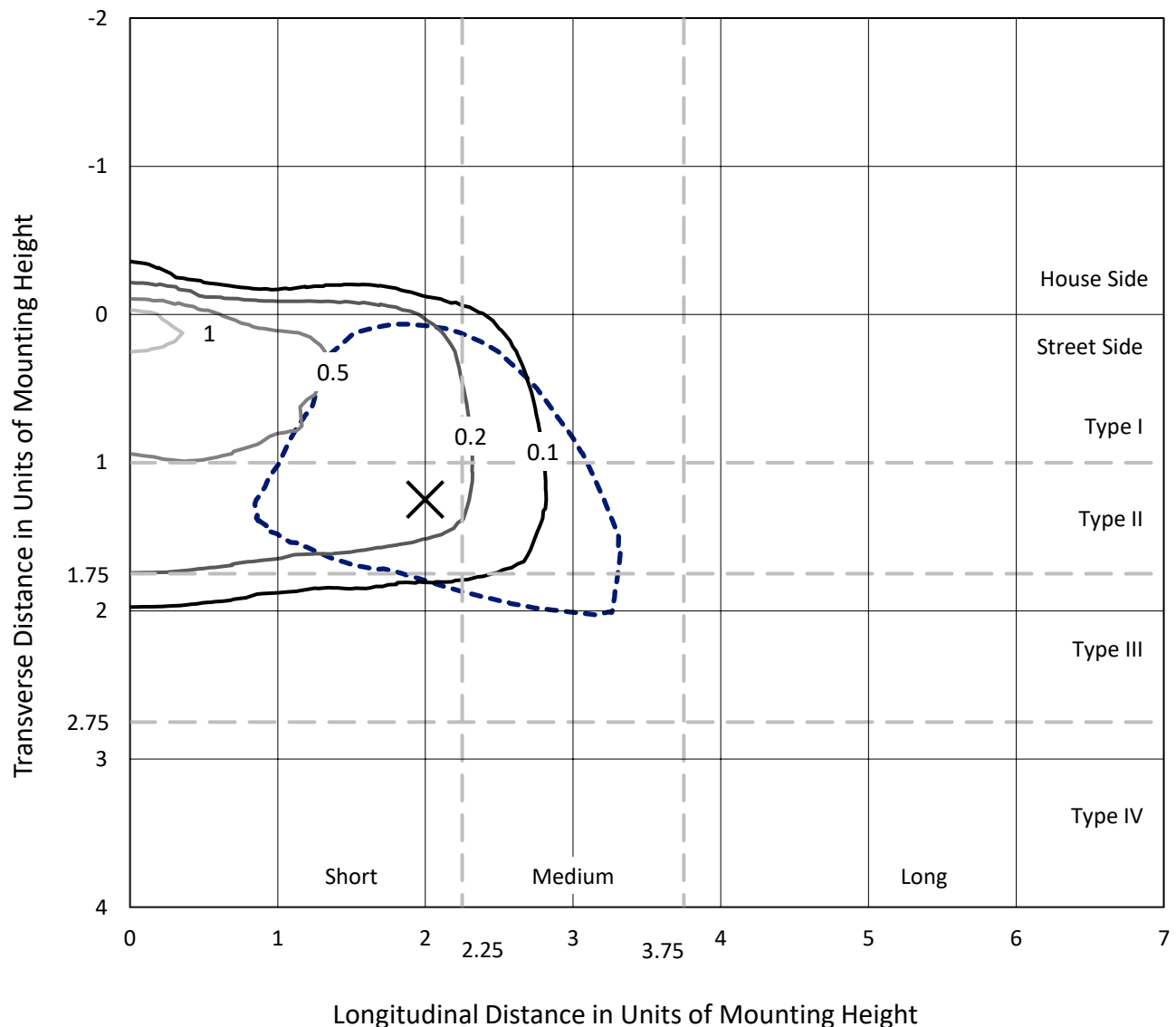


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## Iso-Footcandle Lines of Horizontal Illumination

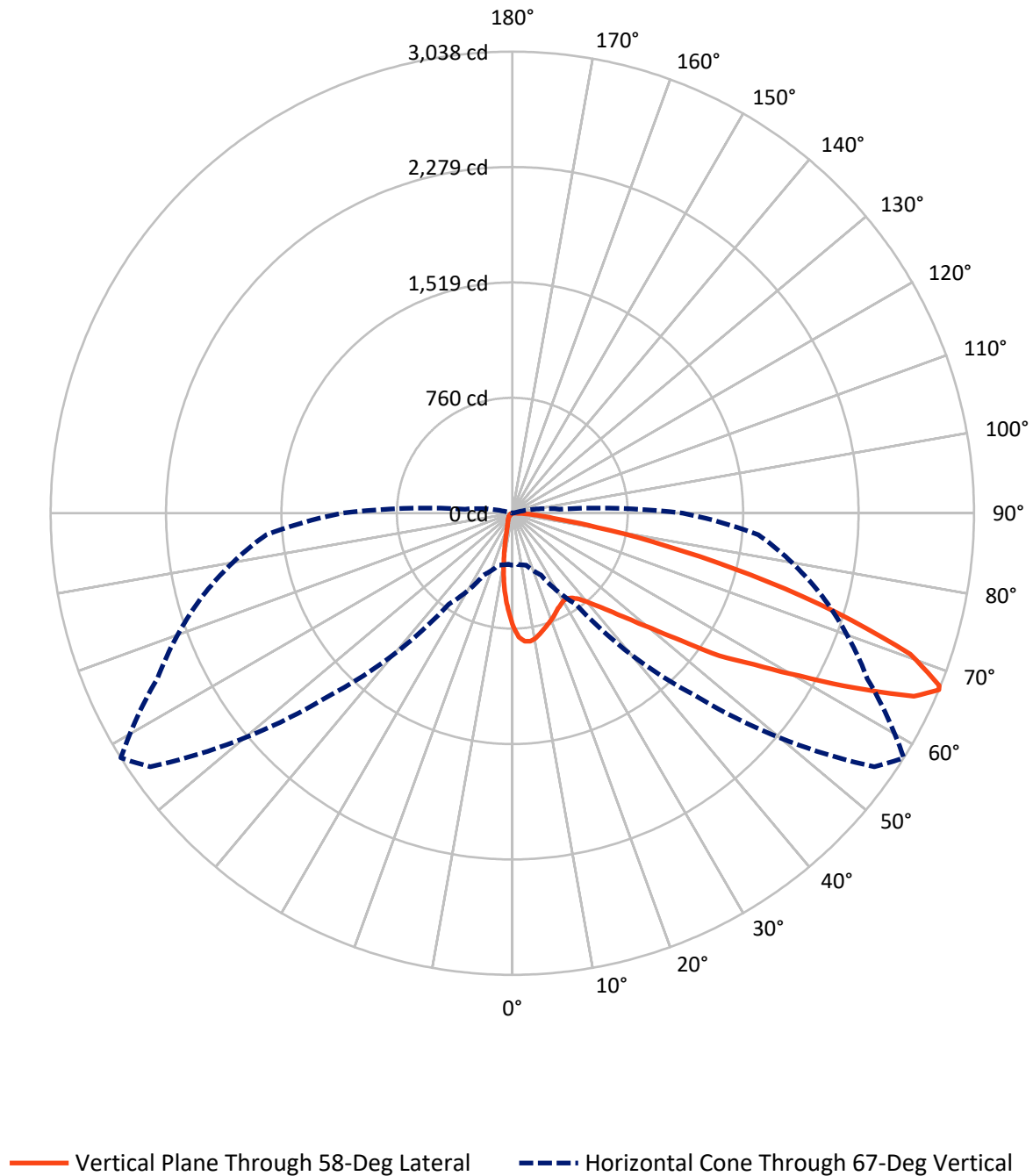
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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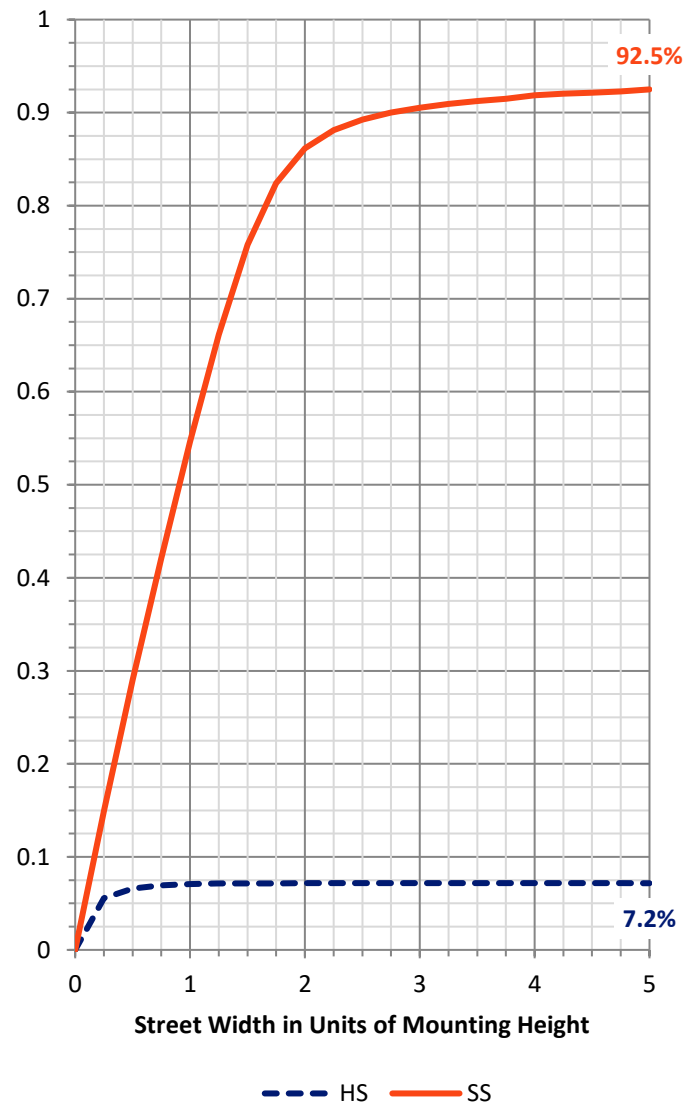
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 203.1    | 0.0    | 203.1  |
|                    | % Fixture | 7.2      | 0.0    | 7.2    |
| <b>Street Side</b> | Lumens    | 2610.9   | 0.0    | 2610.9 |
|                    | % Fixture | 92.8     | 0.0    | 92.8   |
| <b>Total</b>       | Lumens    | 2814.0   | 0.0    | 2814.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 60.5   | 2.2       |
| 10°-20°   | 130.7  | 4.6       |
| 20°-30°   | 177.2  | 6.3       |
| 30°-40°   | 245.7  | 8.7       |
| 40°-50°   | 391.9  | 13.9      |
| 50°-60°   | 677.4  | 24.1      |
| 60°-70°   | 773.8  | 27.5      |
| 70°-80°   | 322.6  | 11.5      |
| 80°-90°   | 34.2   | 1.2       |
| 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°    | 2814.0 | 100.0     |
| 0°-180°   | 2814.0 | 100.0     |

**Coefficient of Utilization**



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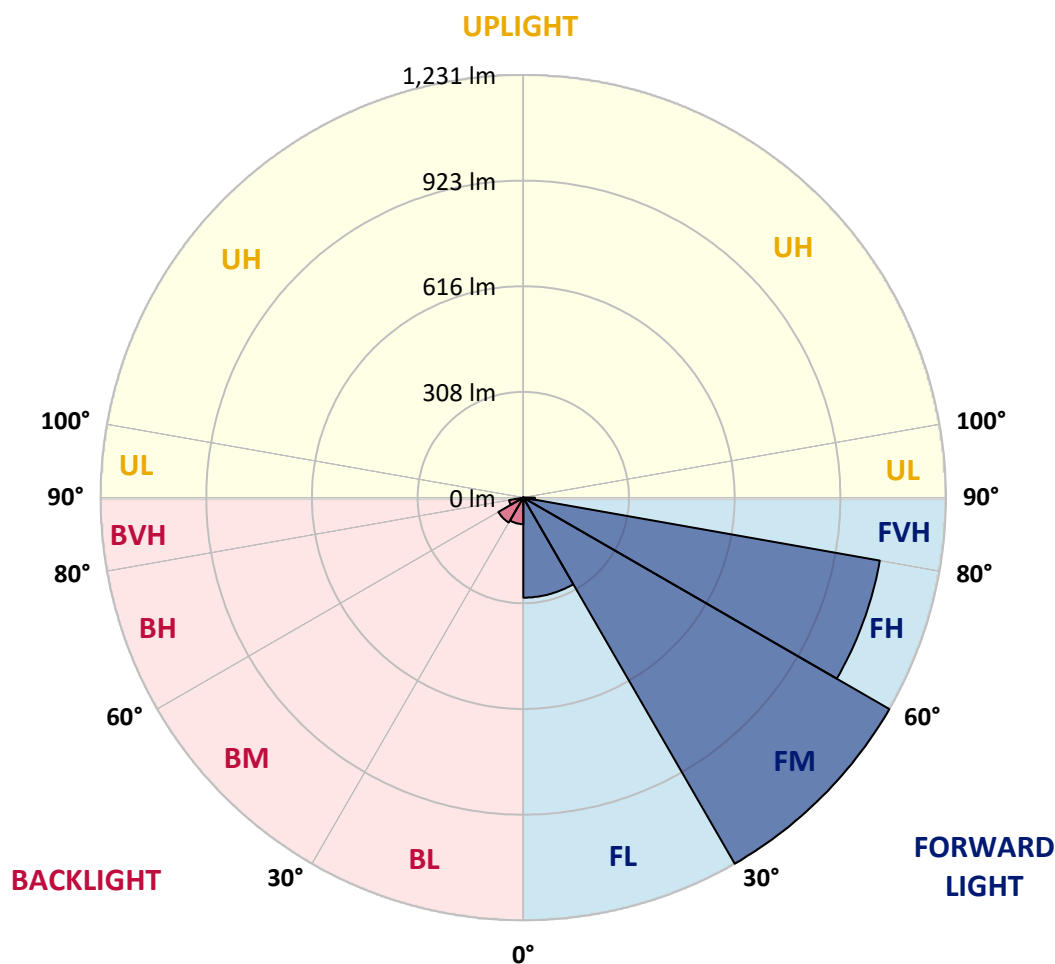
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 291.3  | 10.4      |                         |      |         |
| FM   | (30°-60°)   | 1231.2 | 43.8      |                         |      |         |
| FH   | (60°-80°)   | 1054.4 | 37.5      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 34.0   | 1.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 77.1   | 2.7       | B0/110                  |      |         |
| BM   | (30°-60°)   | 83.7   | 3.0       | B0/220                  |      |         |
| BH   | (60°-80°)   | 42.0   | 1.5       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.2    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 746.0  | 746.0  | 746.0  | 746.0  | 746.0  | 746.0  | 746.0  | 746.0  | 746.0  | 746.0  | 746.0  |
| 2.5°  | 865.7  | 867.1  | 862.2  | 858.2  | 848.1  | 837.2  | 822.7  | 815.0  | 801.8  | 779.1  | 753.9  |
| 5°    | 886.1  | 887.7  | 887.0  | 886.1  | 882.1  | 871.6  | 853.1  | 846.4  | 827.0  | 790.0  | 744.5  |
| 7.5°  | 840.9  | 847.1  | 847.9  | 855.2  | 862.2  | 863.1  | 856.2  | 851.1  | 833.2  | 789.8  | 727.7  |
| 10°   | 781.1  | 785.3  | 791.3  | 799.7  | 816.5  | 830.4  | 837.2  | 836.4  | 826.1  | 784.0  | 708.2  |
| 12.5° | 720.8  | 723.0  | 732.2  | 746.7  | 767.2  | 790.9  | 809.0  | 812.5  | 812.7  | 777.0  | 691.8  |
| 15°   | 668.9  | 667.9  | 675.1  | 691.8  | 720.6  | 750.3  | 782.6  | 788.3  | 797.3  | 770.2  | 676.6  |
| 17.5° | 624.5  | 629.4  | 630.5  | 648.9  | 675.4  | 714.0  | 755.2  | 765.1  | 783.2  | 764.4  | 664.0  |
| 20°   | 597.0  | 599.7  | 602.1  | 612.5  | 636.3  | 677.0  | 729.4  | 743.1  | 770.0  | 759.1  | 649.9  |
| 22.5° | 588.9  | 590.6  | 588.6  | 591.8  | 608.7  | 644.8  | 701.4  | 719.6  | 757.4  | 754.2  | 638.4  |
| 25°   | 595.2  | 596.8  | 592.0  | 588.2  | 594.0  | 618.7  | 674.3  | 696.5  | 747.3  | 753.3  | 629.8  |
| 27.5° | 610.2  | 613.4  | 606.6  | 599.9  | 596.5  | 604.6  | 653.1  | 678.8  | 740.3  | 757.8  | 625.8  |
| 30°   | 633.7  | 635.6  | 630.5  | 622.2  | 614.5  | 606.4  | 642.0  | 666.6  | 738.4  | 768.3  | 625.4  |
| 32.5° | 659.3  | 663.2  | 660.4  | 655.0  | 645.0  | 625.8  | 645.2  | 667.0  | 743.0  | 783.6  | 630.1  |
| 35°   | 690.9  | 695.4  | 698.0  | 696.9  | 684.1  | 660.2  | 665.5  | 683.9  | 755.0  | 811.6  | 642.9  |
| 37.5° | 721.9  | 725.8  | 740.7  | 745.8  | 734.5  | 711.9  | 705.0  | 717.2  | 781.5  | 848.3  | 666.0  |
| 40°   | 757.4  | 762.7  | 783.6  | 802.9  | 797.5  | 773.8  | 761.0  | 771.2  | 822.1  | 903.5  | 709.9  |
| 42.5° | 791.5  | 800.9  | 832.7  | 866.9  | 872.0  | 845.4  | 837.0  | 840.4  | 882.3  | 983.1  | 771.0  |
| 45°   | 839.8  | 848.6  | 889.6  | 936.1  | 960.0  | 939.3  | 930.6  | 930.1  | 964.8  | 1095.0 | 870.1  |
| 47.5° | 909.6  | 917.5  | 965.8  | 1011.7 | 1054.2 | 1057.0 | 1040.6 | 1046.3 | 1068.6 | 1225.9 | 991.5  |
| 50°   | 995.1  | 1013.7 | 1045.5 | 1093.3 | 1150.1 | 1196.0 | 1201.0 | 1193.5 | 1212.7 | 1377.4 | 1137.5 |
| 52.5° | 1119.4 | 1126.6 | 1155.7 | 1195.0 | 1261.6 | 1339.4 | 1399.8 | 1389.4 | 1383.4 | 1521.8 | 1284.9 |
| 55°   | 1212.1 | 1221.7 | 1267.0 | 1321.0 | 1418.6 | 1521.3 | 1652.1 | 1655.7 | 1579.7 | 1660.6 | 1429.1 |
| 57.5° | 1184.1 | 1198.8 | 1267.4 | 1375.9 | 1590.5 | 1778.1 | 1875.5 | 1878.0 | 1761.4 | 1795.4 | 1592.0 |
| 60°   | 1040.3 | 1047.2 | 1145.6 | 1290.3 | 1605.1 | 2056.4 | 2192.4 | 2172.6 | 1946.2 | 1946.2 | 1735.8 |
| 62.5° | 737.7  | 748.6  | 828.3  | 1041.4 | 1449.6 | 2153.1 | 2571.9 | 2531.1 | 2200.9 | 2090.5 | 1821.6 |
| 65°   | 471.4  | 460.9  | 513.7  | 657.4  | 1079.9 | 2010.4 | 2902.3 | 2904.7 | 2440.4 | 2148.2 | 1774.7 |
| 67°   | 341.5  | 337.3  | 352.6  | 449.4  | 732.2  | 1689.9 | 2909.2 | 3038.0 | 2578.1 | 2111.7 | 1625.1 |
| 67.5° | 312.3  | 315.5  | 326.6  | 405.4  | 665.3  | 1537.8 | 2877.6 | 3030.1 | 2609.1 | 2089.7 | 1570.9 |
| 70°   | 236.7  | 231.3  | 243.3  | 286.8  | 398.8  | 970.1  | 2475.4 | 2779.1 | 2570.5 | 1871.4 | 1255.2 |
| 72.5° | 174.1  | 173.6  | 190.3  | 234.5  | 307.1  | 516.7  | 1858.2 | 2228.3 | 2100.1 | 1425.0 | 790.3  |
| 75°   | 117.5  | 122.8  | 149.5  | 195.9  | 278.3  | 335.1  | 1266.8 | 1616.6 | 1457.9 | 809.1  | 323.1  |
| 77.5° | 66.9   | 67.3   | 96.3   | 157.4  | 249.9  | 269.7  | 750.7  | 1029.9 | 771.7  | 269.1  | 95.9   |
| 80°   | 29.0   | 31.8   | 47.8   | 114.3  | 207.2  | 238.8  | 430.4  | 566.0  | 312.2  | 57.0   | 31.0   |
| 82.5° | 10.7   | 12.6   | 21.1   | 70.3   | 151.2  | 196.7  | 260.1  | 270.2  | 105.9  | 20.1   | 19.4   |
| 85°   | 0.0    | 0.4    | 7.7    | 32.9   | 78.8   | 87.8   | 173.8  | 160.2  | 46.8   | 9.6    | 12.6   |
| 87.5° | 0.0    | 0.0    | 0.0    | 3.4    | 10.3   | 32.7   | 54.0   | 60.2   | 11.3   | 3.4    | 3.0    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 746.0  | 746.0 | 746.0 | 746.0 | 746.0 | 746.0 | 746.0 | 746.0 | 746.0 | 746.0 | 746.0 |
| 2.5°  | 740.3  | 728.1 | 697.5 | 666.8 | 644.0 | 625.1 | 596.5 | 580.9 | 572.6 | 560.4 | 561.1 |
| 5°    | 721.7  | 696.9 | 642.9 | 587.1 | 541.9 | 497.9 | 445.3 | 424.0 | 406.2 | 396.0 | 389.2 |
| 7.5°  | 694.1  | 657.4 | 577.5 | 503.0 | 433.6 | 356.7 | 299.0 | 260.4 | 234.5 | 224.9 | 215.7 |
| 10°   | 663.8  | 615.1 | 511.1 | 407.9 | 311.6 | 232.2 | 183.3 | 148.0 | 135.4 | 123.7 | 124.9 |
| 12.5° | 635.8  | 576.5 | 450.2 | 321.9 | 218.3 | 147.6 | 115.1 | 100.6 | 96.5  | 95.1  | 95.1  |
| 15°   | 612.8  | 539.7 | 384.7 | 242.0 | 149.7 | 106.1 | 92.1  | 88.2  | 86.7  | 86.3  | 86.3  |
| 17.5° | 588.4  | 504.7 | 325.7 | 178.8 | 108.9 | 88.8  | 84.1  | 81.4  | 80.9  | 80.5  | 80.5  |
| 20°   | 566.6  | 469.5 | 269.7 | 133.1 | 88.0  | 79.9  | 76.9  | 75.2  | 74.7  | 74.3  | 74.5  |
| 22.5° | 545.9  | 438.3 | 217.0 | 100.6 | 77.5  | 72.8  | 69.8  | 68.1  | 66.9  | 66.0  | 66.2  |
| 25°   | 527.5  | 408.2 | 174.5 | 82.4  | 69.8  | 65.6  | 62.6  | 60.2  | 57.7  | 56.6  | 56.4  |
| 27.5° | 514.5  | 381.9 | 136.0 | 70.5  | 62.8  | 58.3  | 54.5  | 51.5  | 48.3  | 46.6  | 46.3  |
| 30°   | 503.8  | 355.2 | 107.6 | 62.2  | 55.8  | 51.5  | 46.8  | 42.5  | 39.1  | 37.4  | 36.7  |
| 32.5° | 496.8  | 329.8 | 84.8  | 55.5  | 50.0  | 44.8  | 39.5  | 35.2  | 31.4  | 29.7  | 29.3  |
| 35°   | 495.7  | 308.6 | 69.4  | 49.8  | 44.8  | 39.1  | 33.7  | 29.0  | 25.8  | 24.1  | 23.7  |
| 37.5° | 503.8  | 292.2 | 58.1  | 45.3  | 40.4  | 34.2  | 28.2  | 23.9  | 21.1  | 19.7  | 19.6  |
| 40°   | 525.4  | 281.9 | 50.4  | 41.6  | 36.5  | 29.7  | 24.1  | 20.3  | 17.5  | 16.2  | 16.2  |
| 42.5° | 566.6  | 282.3 | 45.3  | 38.0  | 32.5  | 25.4  | 20.5  | 16.9  | 14.5  | 13.4  | 13.0  |
| 45°   | 630.9  | 295.0 | 41.0  | 34.4  | 28.8  | 22.0  | 17.5  | 13.9  | 11.5  | 10.5  | 10.5  |
| 47.5° | 717.0  | 320.4 | 37.2  | 30.8  | 25.4  | 18.8  | 14.9  | 11.3  | 9.2   | 8.3   | 8.3   |
| 50°   | 829.6  | 361.2 | 34.0  | 27.8  | 22.6  | 16.2  | 12.0  | 9.2   | 7.1   | 6.4   | 6.2   |
| 52.5° | 947.4  | 411.6 | 30.3  | 25.2  | 19.4  | 13.7  | 9.8   | 7.1   | 5.5   | 4.9   | 4.7   |
| 55°   | 1077.3 | 460.9 | 26.7  | 22.6  | 15.8  | 11.5  | 7.7   | 5.6   | 3.9   | 3.4   | 3.4   |
| 57.5° | 1208.4 | 509.2 | 22.4  | 18.8  | 12.4  | 8.5   | 6.0   | 4.1   | 2.6   | 2.1   | 2.1   |
| 60°   | 1319.3 | 524.8 | 19.0  | 15.2  | 9.4   | 6.0   | 4.3   | 2.6   | 1.5   | 0.9   | 0.9   |
| 62.5° | 1334.5 | 472.2 | 16.0  | 11.7  | 6.8   | 4.1   | 2.3   | 1.5   | 0.6   | 0.4   | 0.4   |
| 65°   | 1251.8 | 383.6 | 13.4  | 8.8   | 4.5   | 2.1   | 0.9   | 0.6   | 0.2   | 0.0   | 0.0   |
| 67°   | 1121.7 | 311.0 | 10.9  | 6.6   | 3.2   | 1.3   | 0.6   | 0.2   | 0.0   | 0.0   | 0.0   |
| 67.5° | 1088.4 | 296.5 | 10.5  | 6.2   | 2.8   | 1.1   | 0.4   | 0.2   | 0.0   | 0.0   | 0.0   |
| 70°   | 854.1  | 222.1 | 7.5   | 3.8   | 1.7   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 530.8  | 125.6 | 5.5   | 2.3   | 1.1   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 200.6  | 44.0  | 3.8   | 1.5   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 62.4   | 16.7  | 2.3   | 1.1   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 21.1   | 6.4   | 1.5   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 13.0   | 2.6   | 0.9   | 0.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 8.1    | 1.1   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.5    | 0.4   | 0.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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)