

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: P192779

Luminaire Tested: **GAN-AF-01-LED-U-SL2-7030-800-HSS**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P192779  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
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-SL2-7030-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 4033.8 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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



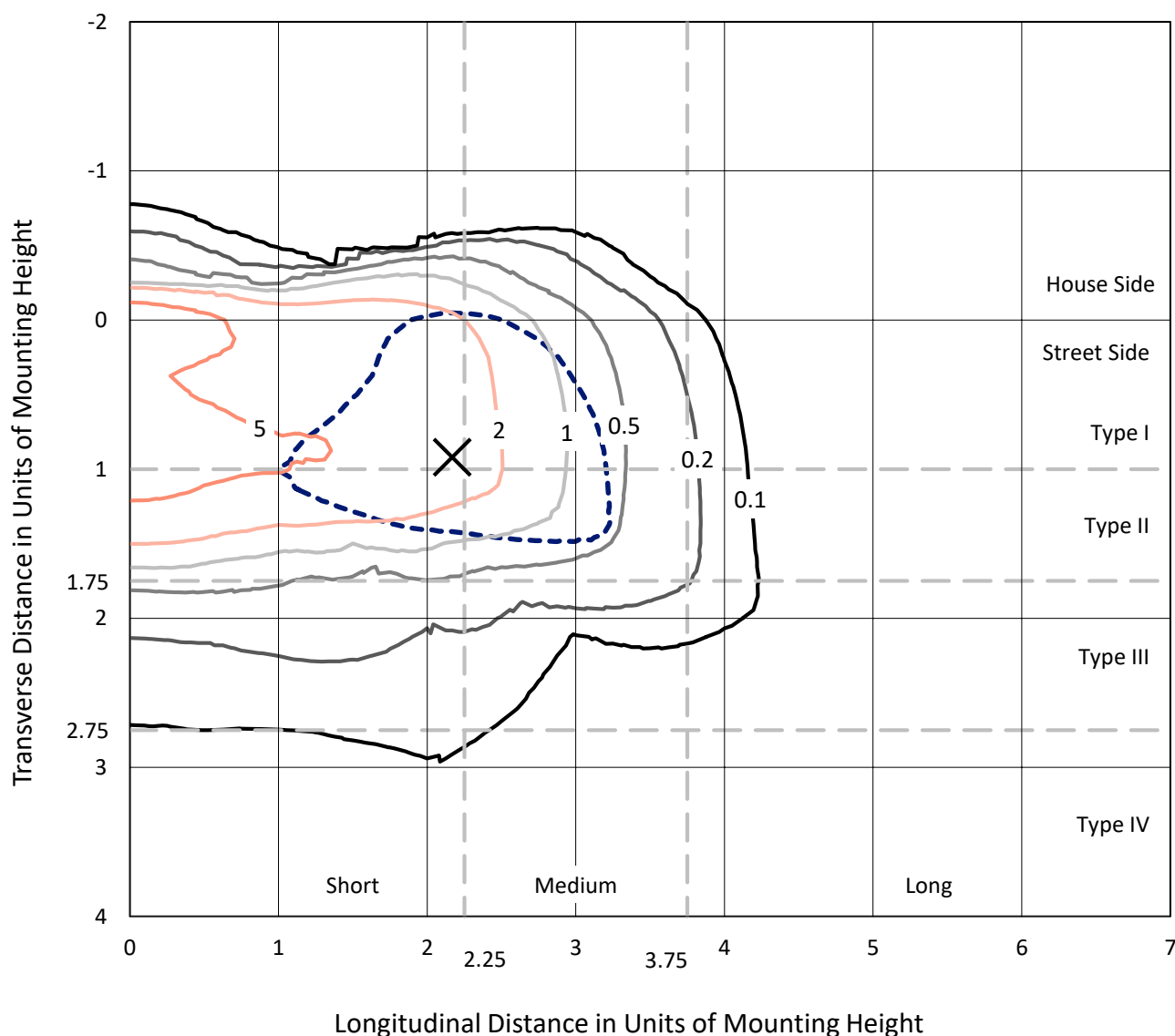
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

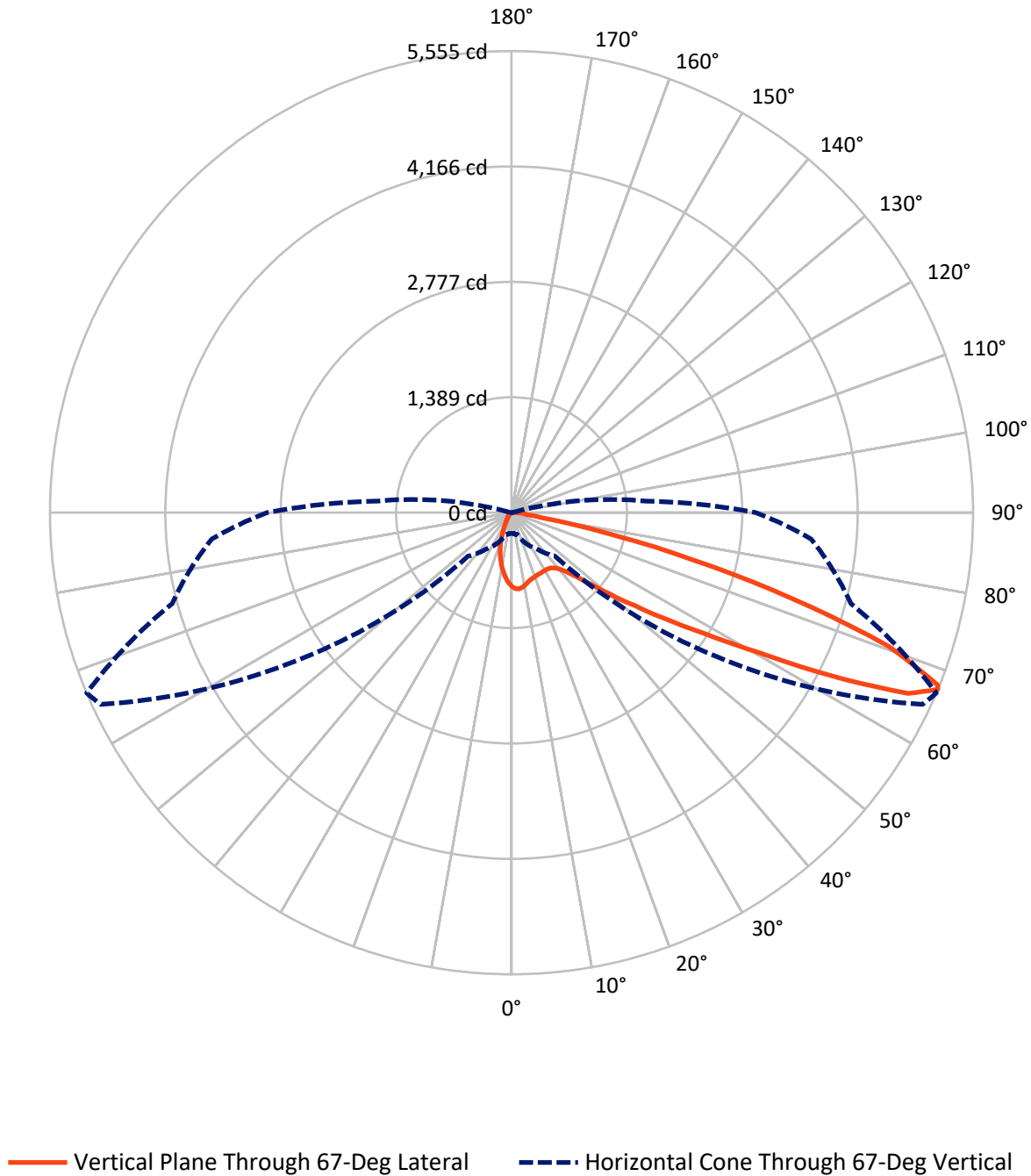


Based on 10 foot mounting height. Maximum calculated value = 8.9 fc  
 Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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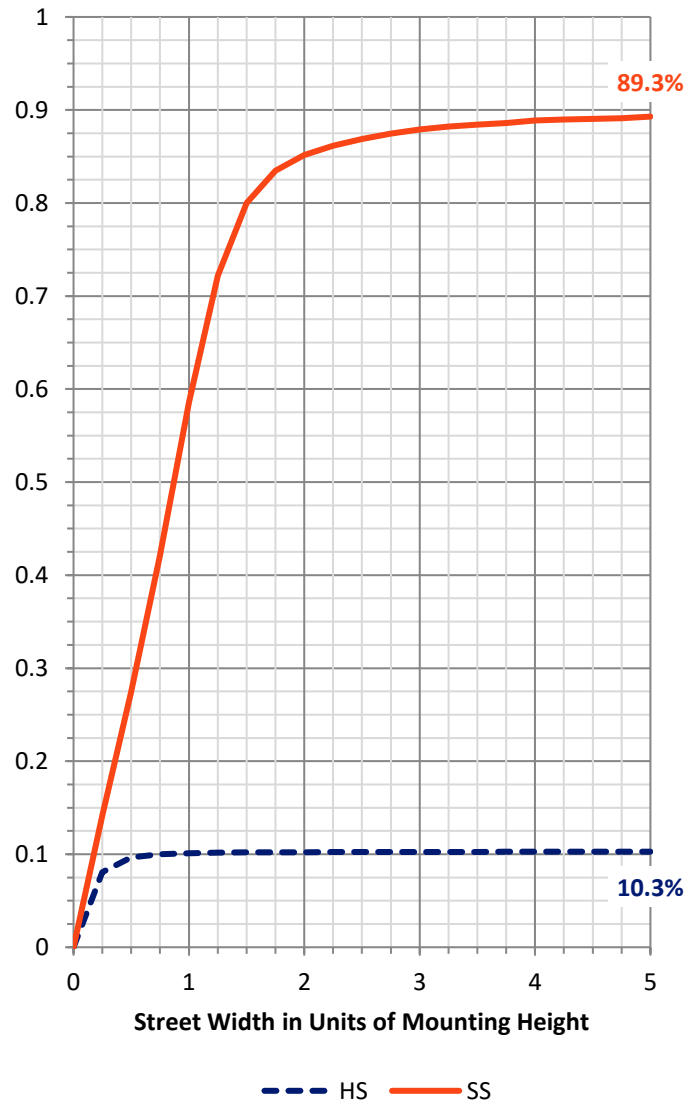
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 418.8    | 0.0    | 418.8  |
|                    | % Fixture | 10.4     | 0.0    | 10.4   |
| <b>Street Side</b> | Lumens    | 3615.0   | 0.0    | 3615.0 |
|                    | % Fixture | 89.6     | 0.0    | 89.6   |
| <b>Total</b>       | Lumens    | 4033.8   | 0.0    | 4033.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 72.4   | 1.8       |
| 10°-20°   | 154.1  | 3.8       |
| 20°-30°   | 224.0  | 5.6       |
| 30°-40°   | 349.5  | 8.7       |
| 40°-50°   | 619.0  | 15.3      |
| 50°-60°   | 979.5  | 24.3      |
| 60°-70°   | 1121.9 | 27.8      |
| 70°-80°   | 465.4  | 11.5      |
| 80°-90°   | 48.1   | 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°    | 4033.8 | 100.0     |
| 0°-180°   | 4033.8 | 100.0     |

**Coefficient of Utilization**



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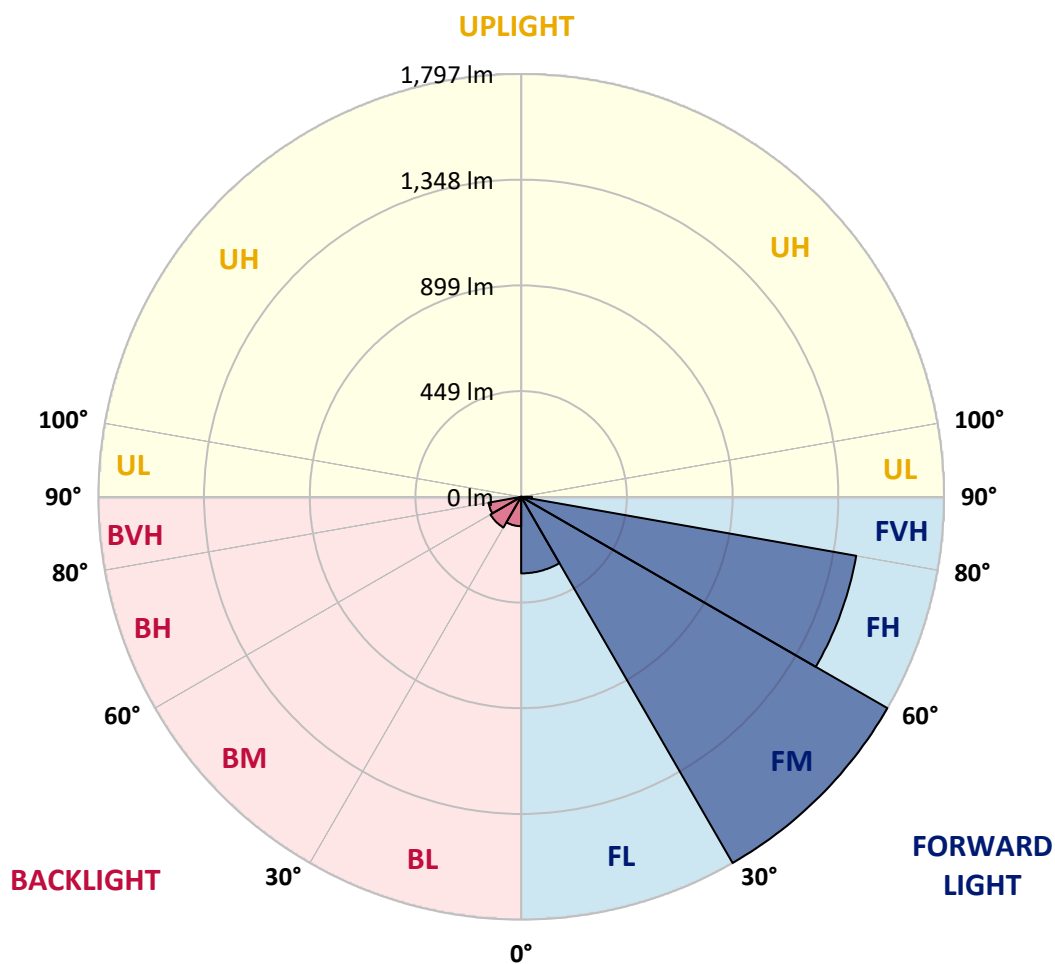
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 325.5  | 8.1       |                         |      |         |
| FM   | (30°-60°)   | 1797.5 | 44.6      |                         |      |         |
| FH   | (60°-80°)   | 1446.1 | 35.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 45.9   | 1.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 125.0  | 3.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 150.5  | 3.7       | B0/220                  |      |         |
| BH   | (60°-80°)   | 141.2  | 3.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 2.2    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 889.6  | 889.6  | 889.6  | 889.6  | 889.6  | 889.6  | 889.6  | 889.6  | 889.6  | 889.6  | 889.6  |
| 2.5°  | 919.8  | 921.6  | 921.4  | 922.8  | 926.1  | 926.3  | 923.0  | 916.6  | 915.3  | 907.1  | 892.6  |
| 5°    | 848.2  | 853.7  | 856.9  | 870.4  | 885.3  | 903.5  | 917.1  | 922.0  | 921.4  | 915.5  | 893.8  |
| 7.5°  | 766.6  | 771.9  | 775.7  | 791.5  | 811.5  | 842.6  | 878.1  | 907.3  | 909.8  | 916.2  | 892.8  |
| 10°   | 712.3  | 713.1  | 718.4  | 733.3  | 754.3  | 786.1  | 828.4  | 879.5  | 887.3  | 910.5  | 890.6  |
| 12.5° | 667.5  | 668.2  | 675.0  | 691.3  | 713.6  | 745.5  | 790.1  | 849.2  | 861.2  | 903.5  | 890.1  |
| 15°   | 635.8  | 638.3  | 644.4  | 661.3  | 685.2  | 717.0  | 762.5  | 826.8  | 841.2  | 901.0  | 894.3  |
| 17.5° | 625.2  | 628.0  | 629.9  | 642.1  | 663.8  | 694.8  | 741.7  | 812.3  | 828.4  | 902.4  | 902.6  |
| 20°   | 636.2  | 638.3  | 634.1  | 637.2  | 650.5  | 678.3  | 724.0  | 799.8  | 819.0  | 904.0  | 913.2  |
| 22.5° | 677.4  | 678.3  | 666.8  | 653.4  | 651.0  | 666.4  | 710.0  | 789.8  | 810.6  | 908.5  | 925.7  |
| 25°   | 748.0  | 746.4  | 727.4  | 698.6  | 671.3  | 664.2  | 701.9  | 783.7  | 806.4  | 913.2  | 938.5  |
| 27.5° | 833.1  | 835.5  | 809.6  | 767.5  | 715.5  | 678.3  | 700.7  | 781.1  | 804.4  | 916.4  | 949.9  |
| 30°   | 936.7  | 939.9  | 910.3  | 857.3  | 782.9  | 713.1  | 711.5  | 780.6  | 803.3  | 914.3  | 950.8  |
| 32.5° | 1042.4 | 1046.2 | 1023.0 | 968.5  | 872.7  | 771.5  | 736.0  | 785.9  | 805.6  | 907.1  | 945.4  |
| 35°   | 1152.9 | 1158.5 | 1143.0 | 1096.2 | 994.6  | 855.7  | 779.0  | 801.6  | 816.7  | 906.3  | 939.9  |
| 37.5° | 1305.6 | 1310.8 | 1281.6 | 1232.0 | 1142.1 | 968.7  | 848.2  | 831.3  | 842.8  | 917.6  | 941.4  |
| 40°   | 1533.6 | 1532.9 | 1457.6 | 1381.6 | 1304.2 | 1112.1 | 945.4  | 884.9  | 890.8  | 951.7  | 958.7  |
| 42.5° | 1782.0 | 1780.9 | 1669.6 | 1554.1 | 1484.2 | 1288.9 | 1073.2 | 977.7  | 973.6  | 1014.6 | 1004.0 |
| 45°   | 1973.5 | 1973.3 | 1882.5 | 1752.4 | 1700.8 | 1491.7 | 1238.4 | 1106.6 | 1100.5 | 1116.6 | 1087.2 |
| 47.5° | 2055.1 | 2056.6 | 2011.0 | 1919.4 | 1941.1 | 1766.0 | 1446.5 | 1293.4 | 1284.3 | 1277.6 | 1232.9 |
| 50°   | 1991.7 | 1994.5 | 1998.3 | 1980.5 | 2117.3 | 2134.7 | 1725.9 | 1556.6 | 1552.1 | 1522.7 | 1452.9 |
| 52.5° | 1784.2 | 1798.5 | 1842.7 | 1899.5 | 2178.5 | 2488.6 | 2163.7 | 1883.7 | 1859.7 | 1828.5 | 1751.4 |
| 55°   | 1434.6 | 1450.3 | 1534.3 | 1671.8 | 2087.4 | 2721.1 | 2777.3 | 2305.4 | 2265.3 | 2172.0 | 2060.8 |
| 57.5° | 949.4  | 973.8  | 1095.8 | 1270.8 | 1823.0 | 2758.5 | 3389.6 | 2890.5 | 2751.1 | 2495.5 | 2370.3 |
| 60°   | 523.1  | 546.6  | 678.8  | 837.4  | 1316.7 | 2573.6 | 3801.2 | 3652.3 | 3406.2 | 2857.0 | 2746.0 |
| 62.5° | 322.1  | 334.8  | 432.4  | 579.9  | 789.6  | 2031.2 | 3886.5 | 4609.7 | 4324.8 | 3322.7 | 3199.8 |
| 65°   | 256.4  | 261.9  | 309.6  | 474.0  | 566.1  | 1208.2 | 3611.3 | 5339.6 | 5244.6 | 3886.5 | 3606.2 |
| 67°   | 248.9  | 251.1  | 273.5  | 407.0  | 533.6  | 740.7  | 3025.5 | 5458.4 | 5554.8 | 4227.6 | 3618.8 |
| 67.5° | 250.5  | 252.9  | 274.3  | 388.4  | 532.6  | 680.6  | 2823.7 | 5411.6 | 5533.4 | 4254.7 | 3562.7 |
| 70°   | 241.7  | 248.9  | 314.1  | 388.2  | 506.5  | 565.6  | 1691.0 | 4688.8 | 4815.6 | 3953.2 | 3022.9 |
| 72.5° | 85.7   | 86.1   | 135.8  | 314.1  | 550.7  | 571.8  | 849.2  | 3437.3 | 3531.2 | 3024.1 | 2179.4 |
| 75°   | 50.8   | 43.2   | 45.2   | 89.4   | 526.3  | 555.2  | 489.8  | 2196.4 | 2231.4 | 1732.9 | 1103.7 |
| 77.5° | 35.1   | 30.6   | 31.5   | 39.6   | 200.5  | 547.5  | 389.2  | 1145.4 | 1108.0 | 607.7  | 235.0  |
| 80°   | 20.0   | 17.7   | 18.8   | 34.6   | 72.9   | 510.8  | 367.0  | 464.5  | 395.9  | 103.0  | 64.9   |
| 82.5° | 10.6   | 9.0    | 10.8   | 28.5   | 50.8   | 318.4  | 367.7  | 224.4  | 177.9  | 34.9   | 44.2   |
| 85°   | 3.8    | 3.1    | 5.1    | 19.5   | 33.9   | 97.7   | 340.9  | 188.7  | 148.3  | 16.9   | 33.7   |
| 87.5° | 0.6    | 0.6    | 2.0    | 7.9    | 13.6   | 29.8   | 201.7  | 112.0  | 75.1   | 10.2   | 23.1   |
| 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°    | 889.6  | 889.6  | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 |
| 2.5°  | 886.7  | 876.7  | 863.0 | 846.3 | 826.5 | 809.2 | 796.2 | 782.9 | 780.0 | 775.3 | 774.5 |
| 5°    | 880.9  | 863.4  | 829.6 | 790.8 | 749.4 | 712.0 | 681.7 | 654.6 | 642.6 | 632.2 | 631.1 |
| 7.5°  | 872.2  | 846.1  | 788.5 | 725.8 | 661.1 | 602.3 | 552.5 | 517.2 | 484.7 | 469.2 | 466.7 |
| 10°   | 862.0  | 824.7  | 742.1 | 655.2 | 565.9 | 482.8 | 408.7 | 346.6 | 308.8 | 286.6 | 283.7 |
| 12.5° | 852.7  | 803.7  | 694.8 | 582.2 | 463.3 | 352.3 | 257.0 | 197.6 | 158.1 | 142.1 | 140.2 |
| 15°   | 848.2  | 786.7  | 650.5 | 507.3 | 355.9 | 224.2 | 140.5 | 108.7 | 95.7  | 92.0  | 91.8  |
| 17.5° | 847.8  | 772.5  | 607.3 | 429.8 | 249.4 | 130.3 | 91.6  | 83.5  | 81.0  | 80.0  | 80.0  |
| 20°   | 847.6  | 758.8  | 564.0 | 349.6 | 158.3 | 86.9  | 76.3  | 74.3  | 72.4  | 71.2  | 71.2  |
| 22.5° | 850.0  | 746.6  | 518.8 | 267.8 | 99.8  | 70.4  | 67.0  | 65.2  | 62.9  | 61.1  | 60.9  |
| 25°   | 852.7  | 737.2  | 472.6 | 190.5 | 72.2  | 61.1  | 57.9  | 55.2  | 52.0  | 49.9  | 49.6  |
| 27.5° | 853.1  | 725.4  | 423.3 | 127.5 | 60.4  | 53.4  | 49.1  | 45.2  | 41.4  | 39.4  | 39.0  |
| 30°   | 846.1  | 705.6  | 368.4 | 86.1  | 53.4  | 46.3  | 40.8  | 36.5  | 32.9  | 31.2  | 31.2  |
| 32.5° | 832.2  | 681.1  | 308.2 | 64.9  | 47.5  | 39.8  | 33.7  | 29.6  | 27.4  | 26.6  | 26.3  |
| 35°   | 819.8  | 654.8  | 246.4 | 55.0  | 42.6  | 33.7  | 27.6  | 24.9  | 23.5  | 23.3  | 23.1  |
| 37.5° | 812.5  | 633.6  | 188.3 | 49.9  | 37.9  | 28.2  | 23.3  | 21.5  | 20.8  | 20.2  | 20.4  |
| 40°   | 818.2  | 616.0  | 139.1 | 45.7  | 33.3  | 23.5  | 19.7  | 18.8  | 18.1  | 17.9  | 17.9  |
| 42.5° | 842.8  | 613.0  | 103.2 | 41.8  | 28.7  | 19.5  | 17.2  | 16.5  | 16.0  | 15.8  | 16.0  |
| 45°   | 907.7  | 631.7  | 80.2  | 38.4  | 24.2  | 16.5  | 14.6  | 14.3  | 14.1  | 14.1  | 14.1  |
| 47.5° | 1005.4 | 670.6  | 66.8  | 34.3  | 20.2  | 14.1  | 12.7  | 12.4  | 12.2  | 12.4  | 12.4  |
| 50°   | 1170.8 | 741.7  | 59.8  | 30.4  | 16.7  | 12.0  | 10.8  | 10.8  | 10.8  | 10.8  | 11.0  |
| 52.5° | 1422.3 | 881.4  | 55.0  | 26.3  | 13.6  | 10.2  | 9.2   | 9.2   | 9.4   | 9.4   | 9.7   |
| 55°   | 1702.5 | 1066.8 | 50.8  | 22.4  | 11.6  | 8.5   | 7.5   | 7.7   | 7.9   | 8.2   | 8.2   |
| 57.5° | 2006.5 | 1272.3 | 47.3  | 18.3  | 9.9   | 6.8   | 6.3   | 6.5   | 6.8   | 7.3   | 7.3   |
| 60°   | 2373.3 | 1494.5 | 42.1  | 14.3  | 8.2   | 5.5   | 4.9   | 5.5   | 6.1   | 6.5   | 6.8   |
| 62.5° | 2776.2 | 1709.6 | 35.5  | 11.3  | 6.8   | 4.3   | 4.1   | 4.9   | 5.9   | 6.3   | 6.5   |
| 65°   | 3051.4 | 1777.1 | 27.4  | 9.2   | 5.1   | 3.1   | 3.3   | 4.5   | 5.7   | 6.3   | 6.3   |
| 67°   | 2939.8 | 1611.2 | 22.4  | 7.7   | 4.3   | 2.4   | 3.1   | 4.5   | 5.7   | 6.1   | 6.3   |
| 67.5° | 2862.5 | 1546.3 | 21.5  | 7.5   | 4.1   | 2.4   | 3.1   | 4.5   | 5.7   | 6.3   | 6.3   |
| 70°   | 2329.1 | 1161.7 | 17.9  | 5.7   | 3.3   | 2.0   | 2.6   | 4.3   | 5.5   | 6.1   | 6.1   |
| 72.5° | 1618.2 | 716.2  | 16.0  | 4.1   | 2.8   | 1.8   | 2.4   | 4.1   | 5.1   | 5.9   | 6.1   |
| 75°   | 769.4  | 259.3  | 13.6  | 3.1   | 2.6   | 1.6   | 2.0   | 4.1   | 5.1   | 5.9   | 5.9   |
| 77.5° | 156.9  | 60.2   | 11.0  | 2.6   | 2.0   | 1.6   | 1.8   | 3.8   | 4.9   | 5.7   | 5.7   |
| 80°   | 51.6   | 23.3   | 8.2   | 2.4   | 2.0   | 1.6   | 1.8   | 3.5   | 4.9   | 5.5   | 5.7   |
| 82.5° | 37.1   | 11.8   | 5.5   | 2.4   | 2.0   | 1.6   | 1.6   | 3.5   | 4.7   | 5.5   | 5.5   |
| 85°   | 28.5   | 8.2    | 3.5   | 2.4   | 2.0   | 1.6   | 1.6   | 3.3   | 4.5   | 5.1   | 5.1   |
| 87.5° | 18.8   | 3.3    | 2.8   | 2.4   | 2.0   | 1.6   | 1.6   | 3.3   | 4.3   | 4.9   | 5.1   |
| 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)