

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: P191239

Luminaire Tested: **GAN-AF-01-LED-U-SL4-800-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191239  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
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-SL4-800-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4893.8 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

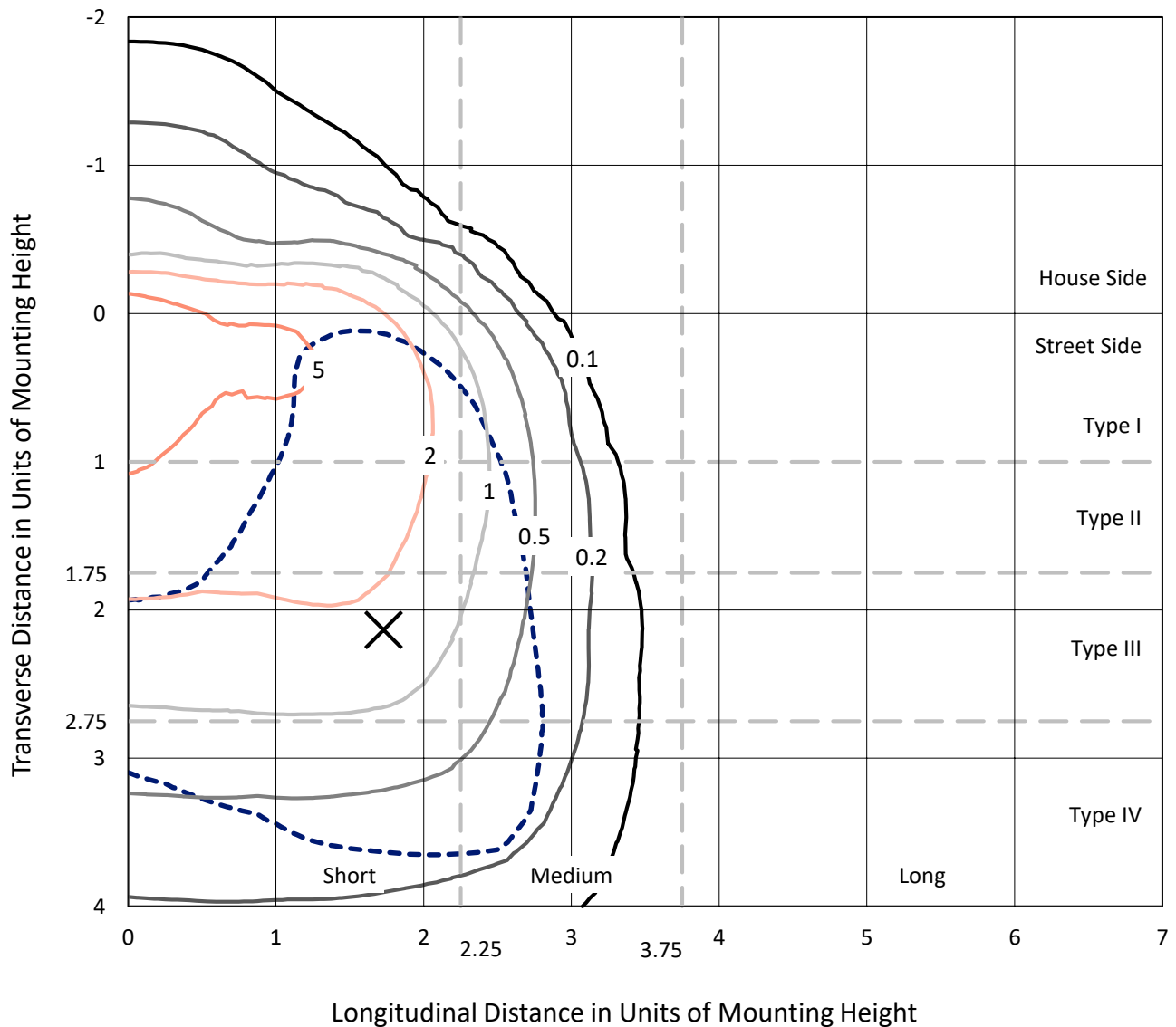
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

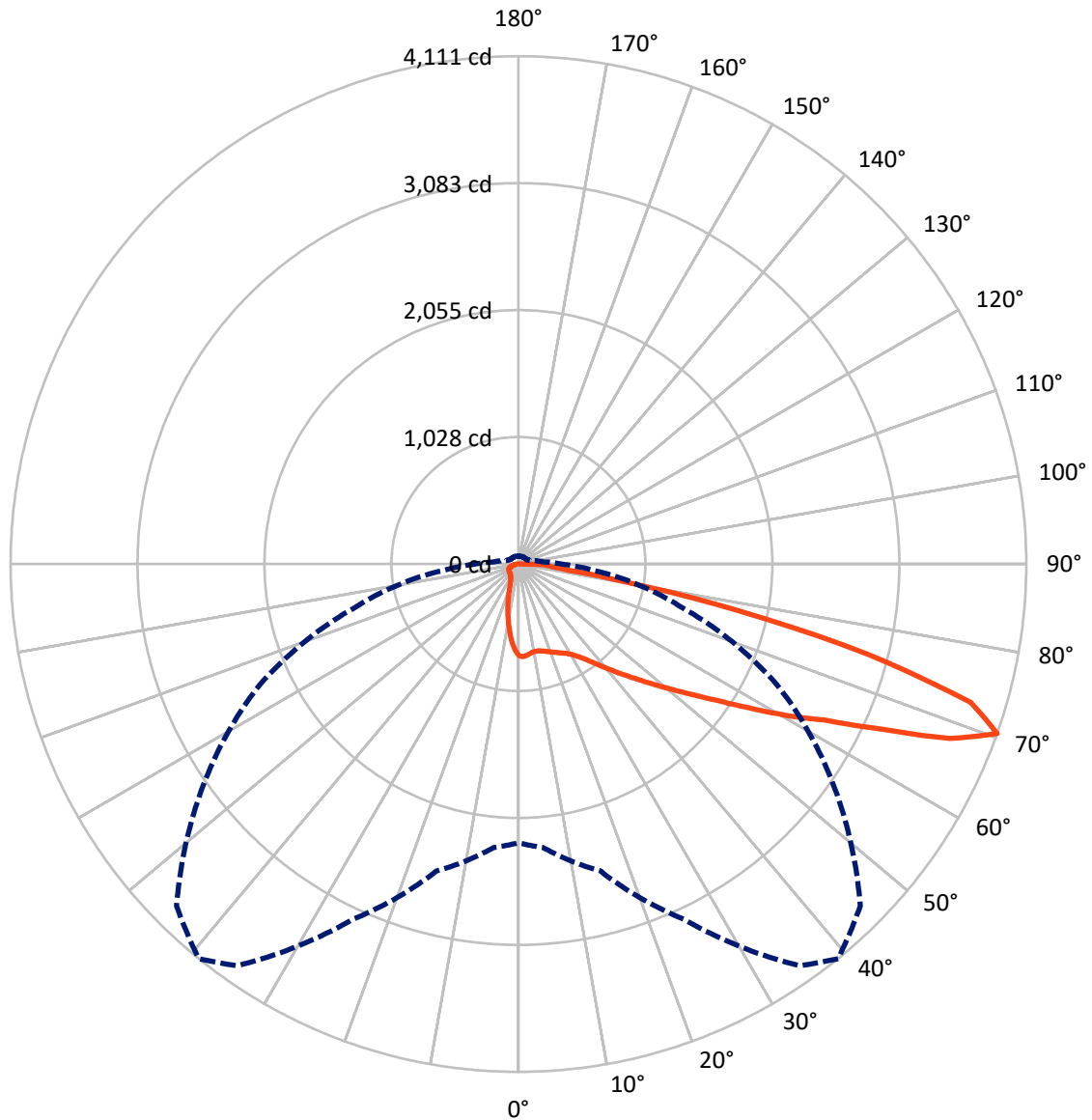
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 556.6    | 0.0    | 556.6  |
|                    | % Fixture | 11.4     | 0.0    | 11.4   |
| <b>Street Side</b> | Lumens    | 4337.2   | 0.0    | 4337.2 |
|                    | % Fixture | 88.6     | 0.0    | 88.6   |
| <b>Total</b>       | Lumens    | 4893.8   | 0.0    | 4893.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 63.8   | 1.3       |
| 10°-20°   | 159.4  | 3.3       |
| 20°-30°   | 248.2  | 5.1       |
| 30°-40°   | 386.6  | 7.9       |
| 40°-50°   | 649.0  | 13.3      |
| 50°-60°   | 1031.0 | 21.1      |
| 60°-70°   | 1375.2 | 28.1      |
| 70°-80°   | 830.4  | 17.0      |
| 80°-90°   | 150.3  | 3.1       |
| 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°    | 4893.8 | 100.0     |
| 0°-180°   | 4893.8 | 100.0     |



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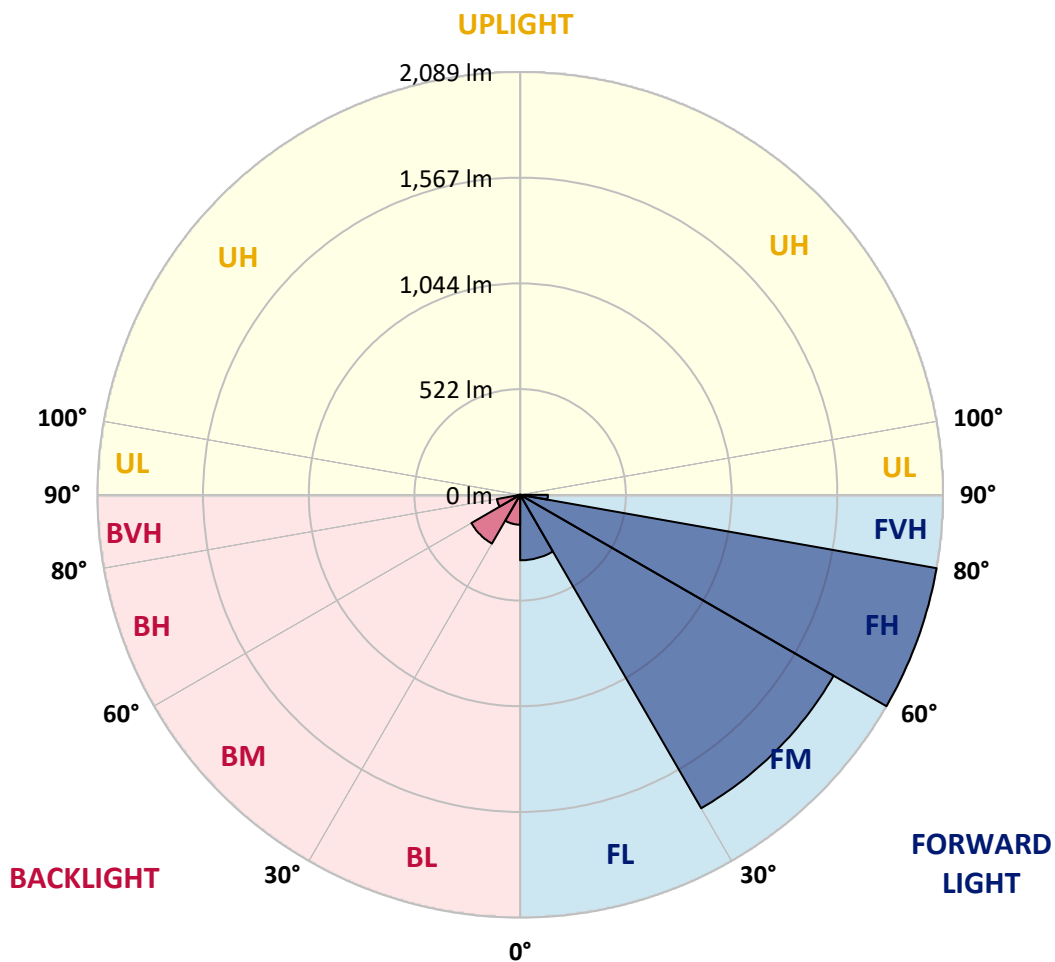
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 323.6  | 6.6       |                         |      |         |
| FM   | (30°-60°)   | 1788.0 | 36.5      |                         |      |         |
| FH   | (60°-80°)   | 2088.8 | 42.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 136.8  | 2.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 147.7  | 3.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 278.5  | 5.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 116.8  | 2.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 13.5   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 39°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 743.0  | 743.0  | 743.0  | 743.0  | 743.0  | 743.0  | 743.0  | 743.0  | 743.0  | 743.0  | 743.0  |
| 2.5°  | 757.4  | 757.1  | 755.1  | 753.6  | 752.4  | 751.9  | 752.9  | 749.2  | 745.9  | 741.9  | 737.8  |
| 5°    | 751.7  | 751.5  | 748.2  | 745.2  | 742.3  | 741.2  | 740.9  | 734.3  | 730.3  | 724.2  | 716.4  |
| 7.5°  | 745.4  | 744.2  | 740.0  | 735.0  | 729.8  | 727.3  | 724.8  | 716.1  | 711.6  | 705.6  | 696.4  |
| 10°   | 739.0  | 737.4  | 733.5  | 728.5  | 723.5  | 719.9  | 715.6  | 707.2  | 702.4  | 698.0  | 687.2  |
| 12.5° | 732.2  | 731.0  | 730.0  | 727.7  | 724.2  | 721.1  | 717.8  | 710.6  | 705.6  | 700.4  | 687.9  |
| 15°   | 731.3  | 730.8  | 733.0  | 734.5  | 732.5  | 730.5  | 727.0  | 720.8  | 715.6  | 710.3  | 694.2  |
| 17.5° | 739.2  | 739.0  | 744.7  | 748.7  | 747.7  | 744.2  | 739.5  | 732.5  | 728.2  | 723.8  | 703.7  |
| 20°   | 756.7  | 757.9  | 764.9  | 770.1  | 765.1  | 760.2  | 752.4  | 742.7  | 740.5  | 738.5  | 713.3  |
| 22.5° | 789.5  | 790.7  | 795.8  | 797.7  | 784.7  | 777.5  | 766.8  | 754.4  | 752.9  | 754.4  | 725.1  |
| 25°   | 840.8  | 839.5  | 838.7  | 831.2  | 807.6  | 796.5  | 782.8  | 769.9  | 770.6  | 777.3  | 741.4  |
| 27.5° | 908.7  | 901.9  | 891.5  | 869.1  | 831.6  | 819.1  | 802.4  | 790.4  | 795.2  | 808.1  | 766.1  |
| 30°   | 979.1  | 971.6  | 947.5  | 910.9  | 862.9  | 849.2  | 830.5  | 817.1  | 829.5  | 850.0  | 798.9  |
| 32.5° | 1044.2 | 1043.3 | 1007.9 | 961.0  | 906.1  | 894.3  | 875.5  | 860.4  | 880.6  | 911.7  | 848.2  |
| 35°   | 1115.4 | 1117.7 | 1075.3 | 1018.9 | 964.6  | 952.2  | 938.8  | 927.3  | 954.2  | 997.0  | 919.6  |
| 37.5° | 1191.5 | 1196.0 | 1146.0 | 1082.4 | 1031.3 | 1026.1 | 1018.1 | 1013.1 | 1054.8 | 1113.9 | 1019.4 |
| 40°   | 1293.3 | 1288.8 | 1219.5 | 1154.0 | 1113.2 | 1113.0 | 1110.4 | 1116.4 | 1185.6 | 1266.7 | 1147.5 |
| 42.5° | 1402.3 | 1389.2 | 1297.3 | 1230.9 | 1203.0 | 1211.5 | 1216.5 | 1240.8 | 1343.1 | 1452.3 | 1303.8 |
| 45°   | 1519.8 | 1490.1 | 1378.2 | 1312.2 | 1302.8 | 1320.7 | 1337.6 | 1390.6 | 1528.5 | 1663.5 | 1475.0 |
| 47.5° | 1613.5 | 1585.0 | 1461.8 | 1397.6 | 1418.2 | 1445.3 | 1478.0 | 1561.8 | 1735.9 | 1881.7 | 1643.9 |
| 50°   | 1687.5 | 1668.7 | 1546.1 | 1497.1 | 1545.4 | 1587.2 | 1640.4 | 1755.6 | 1951.9 | 2094.3 | 1800.4 |
| 52.5° | 1759.1 | 1745.2 | 1631.2 | 1599.1 | 1694.6 | 1752.4 | 1824.8 | 1963.7 | 2173.4 | 2303.3 | 1932.0 |
| 55°   | 1823.8 | 1813.8 | 1722.8 | 1726.2 | 1870.4 | 1945.4 | 2036.5 | 2200.5 | 2414.7 | 2489.7 | 2043.4 |
| 57.5° | 1896.7 | 1884.0 | 1827.3 | 1885.7 | 2096.0 | 2193.5 | 2312.0 | 2466.7 | 2641.2 | 2655.4 | 2128.4 |
| 60°   | 1970.1 | 1959.2 | 1943.2 | 2069.8 | 2382.7 | 2485.2 | 2597.4 | 2724.7 | 2870.8 | 2784.0 | 2123.3 |
| 62.5° | 2033.8 | 2035.1 | 2063.2 | 2263.2 | 2663.3 | 2782.0 | 2918.8 | 3044.7 | 3078.6 | 2806.4 | 1966.3 |
| 65°   | 2141.8 | 2161.4 | 2245.3 | 2536.9 | 3058.4 | 3217.2 | 3385.0 | 3364.9 | 3136.1 | 2597.1 | 1629.8 |
| 67.5° | 2270.1 | 2304.7 | 2474.7 | 2901.7 | 3557.7 | 3768.6 | 3833.4 | 3437.3 | 2905.9 | 2111.2 | 1161.7 |
| 70°   | 2257.2 | 2304.7 | 2573.7 | 3173.6 | 3969.4 | 4110.6 | 3913.6 | 3110.9 | 2307.5 | 1379.1 | 617.0  |
| 72.5° | 2004.5 | 2072.4 | 2371.9 | 3048.9 | 3839.6 | 3827.3 | 3397.5 | 2319.1 | 1371.0 | 553.8  | 241.1  |
| 75°   | 1527.7 | 1596.4 | 1854.2 | 2408.7 | 3034.8 | 2930.2 | 2410.8 | 1281.1 | 520.3  | 219.9  | 152.0  |
| 77.5° | 878.8  | 932.0  | 1131.1 | 1477.2 | 1925.3 | 1818.1 | 1341.8 | 569.8  | 253.3  | 153.2  | 118.7  |
| 80°   | 490.6  | 520.3  | 641.2  | 749.4  | 943.5  | 864.9  | 600.4  | 354.0  | 189.1  | 111.2  | 91.6   |
| 82.5° | 387.9  | 414.3  | 518.5  | 472.7  | 431.0  | 397.6  | 344.8  | 315.3  | 151.0  | 70.2   | 54.7   |
| 85°   | 338.9  | 364.0  | 438.9  | 372.3  | 294.3  | 270.0  | 280.2  | 310.3  | 117.4  | 42.2   | 46.7   |
| 87.5° | 314.0  | 347.6  | 391.2  | 286.8  | 229.1  | 203.1  | 258.5  | 340.1  | 37.8   | 26.4   | 18.9   |
| 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°    | 743.0  | 743.0  | 743.0 | 743.0 | 743.0 | 743.0 | 743.0 | 743.0 | 743.0 | 743.0 | 743.0 |
| 2.5°  | 734.0  | 730.0  | 723.5 | 717.8 | 708.9 | 704.1 | 698.9 | 695.2 | 692.2 | 689.7 | 693.7 |
| 5°    | 711.4  | 703.9  | 690.2 | 675.6 | 658.1 | 644.5 | 633.0 | 622.3 | 614.8 | 609.9 | 613.4 |
| 7.5°  | 690.0  | 677.8  | 656.3 | 629.7 | 599.9 | 574.5 | 553.6 | 535.2 | 522.5 | 514.3 | 517.5 |
| 10°   | 677.8  | 662.6  | 629.5 | 587.7 | 543.7 | 504.1 | 471.3 | 442.8 | 423.2 | 412.0 | 413.8 |
| 12.5° | 674.7  | 655.1  | 609.4 | 551.9 | 491.6 | 436.7 | 390.4 | 351.1 | 323.5 | 309.0 | 309.5 |
| 15°   | 677.0  | 651.9  | 590.4 | 517.5 | 441.4 | 371.9 | 314.3 | 266.5 | 234.4 | 218.0 | 217.7 |
| 17.5° | 680.8  | 649.4  | 570.5 | 480.5 | 390.4 | 309.7 | 245.3 | 198.6 | 170.2 | 157.0 | 156.0 |
| 20°   | 684.8  | 645.4  | 548.1 | 440.4 | 337.4 | 252.1 | 192.1 | 155.5 | 137.6 | 130.4 | 129.9 |
| 22.5° | 690.5  | 641.9  | 525.0 | 398.1 | 285.4 | 205.3 | 158.0 | 133.4 | 123.9 | 120.2 | 119.7 |
| 25°   | 699.7  | 640.2  | 500.3 | 354.0 | 238.7 | 171.7 | 137.6 | 122.4 | 116.9 | 114.5 | 114.2 |
| 27.5° | 715.0  | 642.7  | 477.2 | 311.3 | 200.5 | 149.0 | 126.1 | 116.9 | 112.9 | 110.7 | 110.5 |
| 30°   | 735.0  | 650.4  | 452.9 | 270.7 | 170.9 | 133.6 | 119.2 | 113.2 | 110.0 | 107.7 | 107.7 |
| 32.5° | 768.1  | 663.4  | 427.2 | 235.6 | 149.8 | 123.0 | 114.0 | 110.0 | 107.2 | 105.5 | 105.3 |
| 35°   | 816.8  | 687.7  | 403.3 | 206.5 | 134.6 | 115.2 | 109.5 | 106.5 | 104.5 | 103.5 | 103.5 |
| 37.5° | 887.7  | 726.3  | 382.2 | 185.6 | 125.4 | 110.0 | 105.3 | 103.0 | 101.8 | 101.8 | 101.8 |
| 40°   | 983.1  | 779.5  | 365.0 | 171.7 | 120.2 | 106.3 | 102.0 | 100.2 | 99.5  | 99.7  | 99.7  |
| 42.5° | 1100.8 | 848.7  | 353.5 | 161.9 | 117.6 | 104.0 | 99.7  | 98.3  | 97.5  | 97.3  | 97.5  |
| 45°   | 1234.9 | 927.3  | 352.3 | 154.8 | 115.2 | 102.5 | 98.3  | 96.8  | 95.3  | 94.3  | 94.3  |
| 47.5° | 1365.2 | 1007.2 | 362.5 | 152.3 | 112.4 | 100.8 | 97.1  | 95.5  | 93.3  | 91.0  | 91.0  |
| 50°   | 1480.4 | 1075.1 | 376.2 | 153.2 | 111.5 | 98.3  | 95.0  | 94.3  | 90.8  | 88.3  | 88.1  |
| 52.5° | 1572.0 | 1127.4 | 387.4 | 156.2 | 112.4 | 96.6  | 92.6  | 92.8  | 89.1  | 86.3  | 86.1  |
| 55°   | 1645.4 | 1161.7 | 384.4 | 159.3 | 114.7 | 95.5  | 90.3  | 90.8  | 87.9  | 85.1  | 85.1  |
| 57.5° | 1677.5 | 1149.0 | 351.3 | 156.7 | 116.4 | 95.7  | 88.6  | 90.5  | 88.1  | 85.6  | 85.6  |
| 60°   | 1608.6 | 1036.4 | 289.4 | 145.8 | 114.2 | 95.0  | 87.9  | 91.6  | 91.3  | 88.8  | 88.6  |
| 62.5° | 1400.1 | 834.5  | 224.4 | 129.6 | 106.5 | 91.3  | 85.8  | 91.3  | 94.0  | 93.3  | 93.1  |
| 65°   | 1079.1 | 594.4  | 171.4 | 112.2 | 96.1  | 85.1  | 80.6  | 85.6  | 89.3  | 90.3  | 90.0  |
| 67.5° | 700.4  | 364.3  | 132.2 | 95.7  | 84.4  | 77.8  | 73.9  | 76.1  | 76.9  | 76.9  | 76.4  |
| 70°   | 344.3  | 196.1  | 105.3 | 80.6  | 72.4  | 70.2  | 67.9  | 66.7  | 65.5  | 64.4  | 64.4  |
| 72.5° | 169.9  | 128.2  | 86.5  | 68.1  | 62.5  | 61.5  | 61.0  | 59.4  | 58.5  | 57.2  | 56.8  |
| 75°   | 125.6  | 104.2  | 73.7  | 57.5  | 53.7  | 52.8  | 53.7  | 52.5  | 52.3  | 51.2  | 50.7  |
| 77.5° | 103.2  | 88.8   | 63.4  | 49.3  | 46.0  | 44.3  | 45.8  | 46.0  | 46.2  | 44.8  | 44.3  |
| 80°   | 83.9   | 75.2   | 53.0  | 40.8  | 37.8  | 36.6  | 37.5  | 39.6  | 40.1  | 37.8  | 36.8  |
| 82.5° | 60.5   | 61.5   | 42.8  | 31.8  | 29.4  | 28.3  | 30.4  | 32.8  | 33.3  | 30.1  | 29.4  |
| 85°   | 50.7   | 51.2   | 32.8  | 22.6  | 20.2  | 18.6  | 21.9  | 24.3  | 26.1  | 22.9  | 22.1  |
| 87.5° | 21.2   | 30.1   | 18.9  | 12.7  | 11.2  | 9.7   | 11.7  | 12.9  | 15.7  | 14.4  | 14.2  |
| 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)