

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: P266596

Luminaire Tested: **GAN-AF-01-LED-U-SL3-7027-800-HSS-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266596  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
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-SL3-7027-800-HSS-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH 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: 3737.5 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - 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

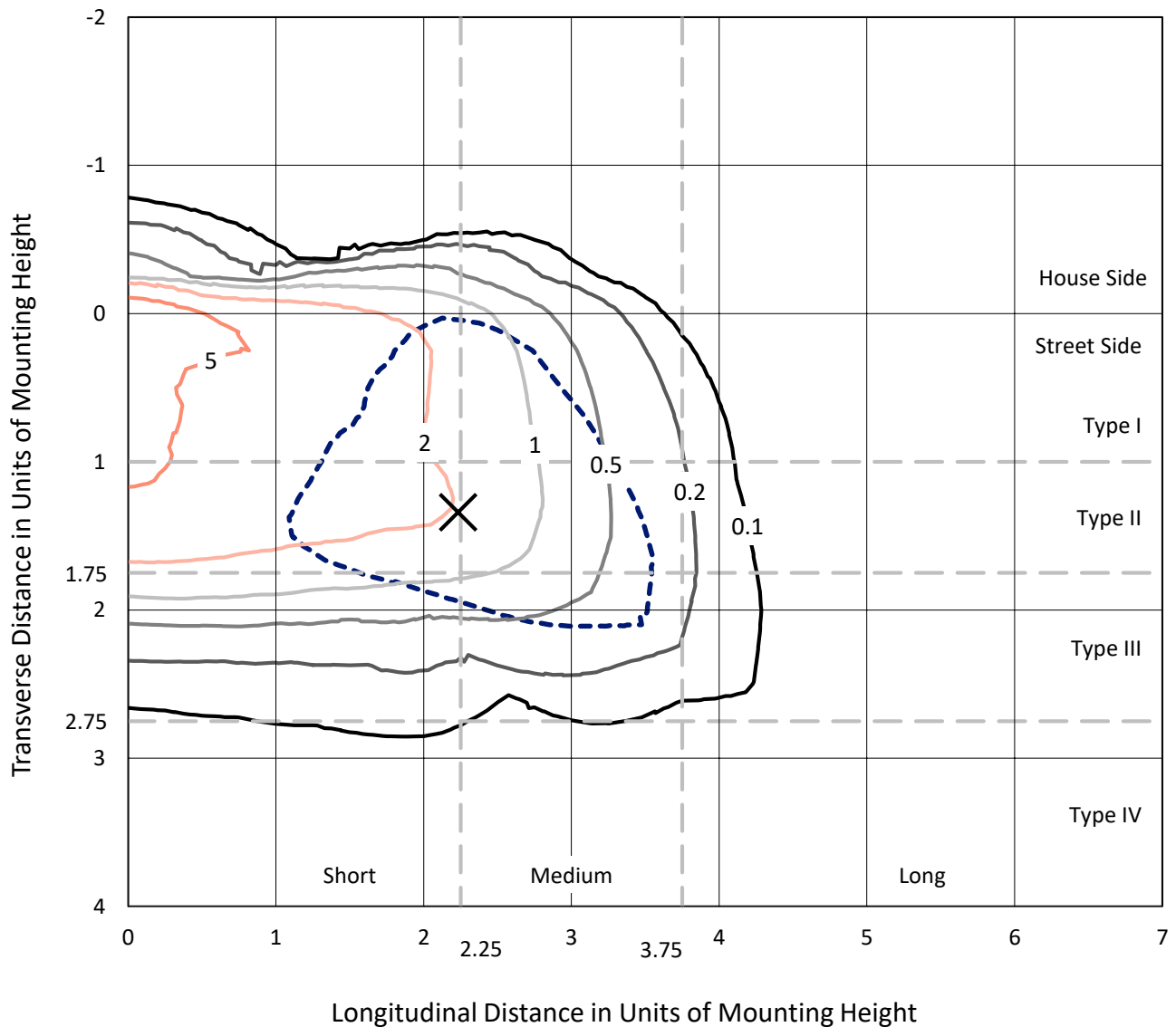


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

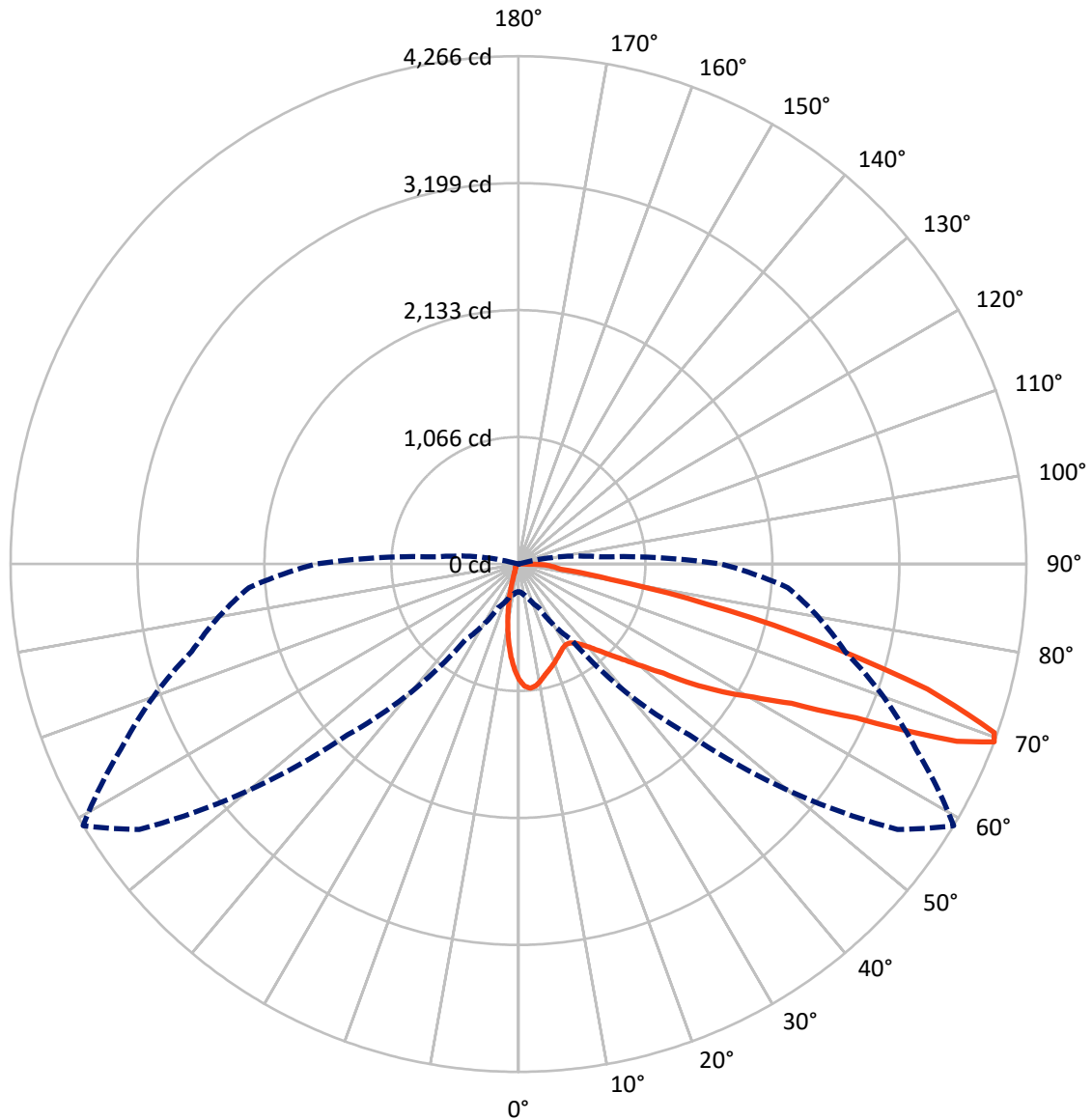


Based on 10 foot mounting height. Maximum calculated value = 9.8 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 304.4    | 0.0    | 304.4  |
|                    | % Fixture | 8.1      | 0.0    | 8.1    |
| <b>Street Side</b> | Lumens    | 3433.1   | 0.0    | 3433.1 |
|                    | % Fixture | 91.9     | 0.0    | 91.9   |
| <b>Total</b>       | Lumens    | 3737.5   | 0.0    | 3737.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 79.0   | 2.1       |
| 10°-20°   | 163.2  | 4.4       |
| 20°-30°   | 219.6  | 5.9       |
| 30°-40°   | 318.8  | 8.5       |
| 40°-50°   | 530.8  | 14.2      |
| 50°-60°   | 828.0  | 22.2      |
| 60°-70°   | 1024.6 | 27.4      |
| 70°-80°   | 519.3  | 13.9      |
| 80°-90°   | 54.3   | 1.5       |
| 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°    | 3737.5 | 100.0     |
| 0°-180°   | 3737.5 | 100.0     |



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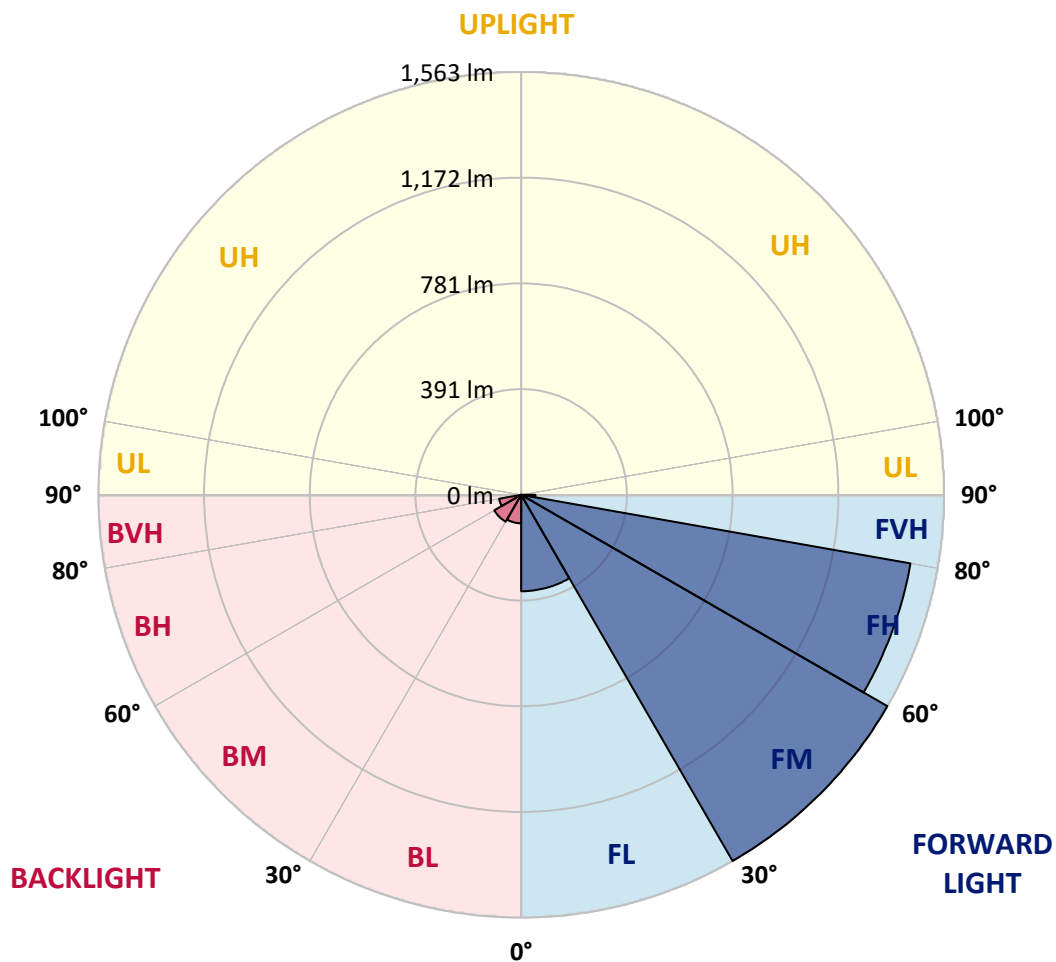
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 356.3  | 9.5       |                         |      |         |
| FM   | (30°-60°)   | 1562.9 | 41.8      |                         |      |         |
| FH   | (60°-80°)   | 1461.2 | 39.1      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 52.7   | 1.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 105.4  | 2.8       | B0/110                  |      |         |
| BM   | (30°-60°)   | 114.7  | 3.1       | B0/220                  |      |         |
| BH   | (60°-80°)   | 82.7   | 2.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.7    | 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°    | 59°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 972.9  | 972.9  | 972.9  | 972.9  | 972.9  | 972.9  | 972.9  | 972.9  | 972.9  | 972.9  | 972.9  |
| 2.5°  | 1066.2 | 1065.7 | 1061.2 | 1059.0 | 1055.1 | 1047.2 | 1034.8 | 1028.2 | 1017.6 | 999.3  | 974.5  |
| 5°    | 1056.4 | 1061.5 | 1064.3 | 1064.5 | 1067.2 | 1064.3 | 1053.2 | 1047.7 | 1033.1 | 1003.4 | 959.1  |
| 7.5°  | 990.7  | 992.4  | 1000.4 | 1007.1 | 1020.1 | 1032.6 | 1036.6 | 1034.3 | 1025.7 | 994.0  | 935.0  |
| 10°   | 920.0  | 921.9  | 931.2  | 940.0  | 957.9  | 977.0  | 997.3  | 1001.6 | 1005.2 | 980.4  | 911.7  |
| 12.5° | 859.0  | 861.0  | 870.5  | 882.1  | 902.8  | 926.5  | 958.0  | 965.0  | 980.9  | 967.6  | 893.2  |
| 15°   | 806.7  | 807.5  | 816.9  | 831.2  | 855.9  | 886.4  | 922.1  | 933.2  | 957.7  | 958.4  | 876.8  |
| 17.5° | 762.1  | 764.2  | 769.9  | 783.6  | 810.7  | 848.3  | 890.0  | 906.0  | 934.5  | 950.9  | 861.0  |
| 20°   | 734.9  | 737.0  | 736.7  | 744.3  | 768.7  | 808.8  | 857.8  | 877.0  | 911.7  | 943.0  | 846.8  |
| 22.5° | 729.6  | 729.6  | 724.0  | 723.0  | 737.4  | 770.9  | 824.5  | 847.9  | 891.3  | 939.6  | 837.0  |
| 25°   | 748.4  | 747.5  | 733.7  | 722.5  | 723.2  | 743.3  | 792.1  | 820.1  | 874.0  | 942.0  | 831.7  |
| 27.5° | 788.2  | 787.0  | 769.7  | 748.4  | 731.2  | 731.0  | 767.6  | 797.7  | 860.1  | 952.9  | 833.7  |
| 30°   | 843.1  | 842.6  | 823.8  | 796.9  | 766.0  | 737.4  | 759.2  | 786.3  | 851.4  | 972.9  | 838.6  |
| 32.5° | 903.1  | 902.4  | 888.2  | 859.9  | 820.6  | 766.0  | 768.1  | 790.9  | 853.7  | 999.3  | 850.4  |
| 35°   | 966.7  | 965.6  | 959.5  | 934.7  | 891.5  | 818.5  | 797.2  | 814.9  | 869.9  | 1038.8 | 873.7  |
| 37.5° | 1035.6 | 1036.6 | 1041.0 | 1017.4 | 972.0  | 892.2  | 846.1  | 858.1  | 902.2  | 1092.3 | 911.5  |
| 40°   | 1137.3 | 1137.1 | 1138.5 | 1107.4 | 1063.8 | 982.6  | 914.2  | 918.1  | 956.3  | 1163.7 | 969.0  |
| 42.5° | 1321.8 | 1308.8 | 1269.8 | 1206.3 | 1162.3 | 1085.7 | 1000.4 | 996.3  | 1022.5 | 1251.8 | 1049.5 |
| 45°   | 1569.7 | 1542.2 | 1440.7 | 1319.3 | 1262.9 | 1201.9 | 1106.2 | 1093.2 | 1109.9 | 1357.7 | 1148.8 |
| 47.5° | 1782.9 | 1754.4 | 1610.9 | 1436.7 | 1369.7 | 1312.2 | 1230.1 | 1207.1 | 1212.5 | 1476.3 | 1274.9 |
| 50°   | 1855.4 | 1841.4 | 1716.1 | 1538.9 | 1473.1 | 1451.1 | 1374.1 | 1345.8 | 1338.0 | 1613.4 | 1420.8 |
| 52.5° | 1830.2 | 1829.2 | 1745.6 | 1605.5 | 1567.7 | 1594.9 | 1555.2 | 1522.4 | 1493.8 | 1758.0 | 1569.3 |
| 55°   | 1789.9 | 1795.2 | 1757.8 | 1663.5 | 1662.3 | 1726.1 | 1803.0 | 1775.7 | 1692.4 | 1914.9 | 1697.4 |
| 57.5° | 1678.6 | 1701.1 | 1750.9 | 1773.3 | 1825.4 | 1890.8 | 2009.2 | 2025.3 | 1926.9 | 2035.2 | 1803.8 |
| 60°   | 1361.9 | 1411.5 | 1574.6 | 1789.2 | 2035.6 | 2198.4 | 2258.2 | 2272.0 | 2119.1 | 2135.2 | 1947.3 |
| 62.5° | 966.7  | 1017.4 | 1224.3 | 1587.1 | 2038.9 | 2602.7 | 2629.1 | 2575.3 | 2330.9 | 2283.3 | 2194.7 |
| 65°   | 513.1  | 552.3  | 721.2  | 1145.7 | 1767.7 | 2696.5 | 3277.7 | 3117.1 | 2704.5 | 2574.8 | 2514.5 |
| 67.5° | 262.5  | 274.3  | 341.5  | 560.7  | 1215.2 | 2395.2 | 3859.1 | 3972.2 | 3348.5 | 2863.9 | 2499.2 |
| 69°   | 232.2  | 239.3  | 283.9  | 405.3  | 778.1  | 2028.7 | 3887.4 | 4265.7 | 3685.7 | 2839.8 | 2271.1 |
| 70°   | 224.8  | 231.0  | 271.6  | 366.9  | 608.2  | 1701.3 | 3779.0 | 4240.0 | 3771.9 | 2748.2 | 2100.7 |
| 72.5° | 190.8  | 196.1  | 241.7  | 324.2  | 494.3  | 844.5  | 3069.8 | 3592.9 | 3384.6 | 2289.3 | 1520.7 |
| 75°   | 127.6  | 144.9  | 232.0  | 303.8  | 459.9  | 479.8  | 2023.8 | 2596.3 | 2411.9 | 1544.0 | 792.1  |
| 77.5° | 30.6   | 33.0   | 65.5   | 241.7  | 420.5  | 422.3  | 1040.9 | 1614.1 | 1316.5 | 550.3  | 187.2  |
| 80°   | 16.4   | 15.8   | 18.3   | 48.0   | 391.7  | 396.2  | 468.6  | 783.4  | 470.1  | 91.3   | 61.8   |
| 82.5° | 11.6   | 11.0   | 11.9   | 20.1   | 123.2  | 360.9  | 339.0  | 354.7  | 194.8  | 35.0   | 27.7   |
| 85°   | 4.2    | 4.0    | 6.6    | 18.1   | 38.6   | 207.6  | 348.4  | 292.5  | 157.9  | 16.1   | 20.3   |
| 87.5° | 1.4    | 1.3    | 2.5    | 9.9    | 11.9   | 88.4   | 215.0  | 221.1  | 62.2   | 9.7    | 9.5    |
| 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°    | 972.9  | 972.9 | 972.9 | 972.9 | 972.9 | 972.9 | 972.9 | 972.9 | 972.9 | 972.9 | 972.9 |
| 2.5°  | 964.2  | 951.0 | 927.0 | 902.2 | 879.4 | 852.0 | 838.2 | 824.6 | 819.0 | 816.9 | 806.9 |
| 5°    | 936.3  | 914.0 | 862.9 | 811.6 | 764.2 | 714.0 | 680.7 | 654.1 | 638.4 | 630.9 | 618.8 |
| 7.5°  | 900.6  | 864.2 | 786.6 | 707.3 | 633.7 | 560.9 | 507.1 | 465.6 | 437.0 | 423.3 | 410.9 |
| 10°   | 865.8  | 817.5 | 707.1 | 599.2 | 499.0 | 402.6 | 328.2 | 274.3 | 239.8 | 224.0 | 213.8 |
| 12.5° | 834.9  | 772.1 | 630.4 | 493.7 | 367.9 | 255.1 | 179.4 | 136.5 | 115.3 | 107.7 | 104.3 |
| 15°   | 807.1  | 730.2 | 557.9 | 393.5 | 249.2 | 145.9 | 98.1  | 83.5  | 80.0  | 80.0  | 79.7  |
| 17.5° | 780.8  | 689.2 | 488.0 | 299.4 | 156.3 | 89.2  | 74.6  | 72.8  | 72.8  | 73.5  | 73.5  |
| 20°   | 755.7  | 650.2 | 420.3 | 215.0 | 98.5  | 70.7  | 67.5  | 67.1  | 67.5  | 68.5  | 68.5  |
| 22.5° | 734.3  | 614.6 | 357.2 | 147.5 | 73.1  | 63.8  | 62.2  | 61.5  | 61.8  | 62.3  | 62.8  |
| 25°   | 718.1  | 584.5 | 297.6 | 100.0 | 63.1  | 58.1  | 56.2  | 55.2  | 54.3  | 54.3  | 54.7  |
| 27.5° | 708.0  | 559.3 | 239.8 | 72.8  | 56.7  | 52.8  | 49.9  | 48.1  | 46.4  | 45.3  | 45.6  |
| 30°   | 700.6  | 535.1 | 185.8 | 59.4  | 50.8  | 46.9  | 43.1  | 40.3  | 37.5  | 36.3  | 36.8  |
| 32.5° | 697.9  | 515.6 | 138.9 | 52.5  | 45.5  | 41.2  | 36.7  | 33.0  | 30.1  | 28.9  | 29.1  |
| 35°   | 705.3  | 500.3 | 101.7 | 47.3  | 41.2  | 35.9  | 30.6  | 26.6  | 24.3  | 23.6  | 23.9  |
| 37.5° | 724.8  | 492.0 | 76.0  | 43.1  | 37.4  | 31.5  | 25.6  | 21.7  | 20.3  | 20.3  | 20.5  |
| 40°   | 761.5  | 491.8 | 61.1  | 40.2  | 34.0  | 27.3  | 21.1  | 18.3  | 17.5  | 18.0  | 18.1  |
| 42.5° | 815.1  | 503.1 | 53.3  | 37.4  | 31.1  | 23.3  | 17.5  | 15.6  | 15.5  | 15.8  | 16.1  |
| 45°   | 888.6  | 523.5 | 49.0  | 35.0  | 27.8  | 19.5  | 14.8  | 13.6  | 13.6  | 14.2  | 14.4  |
| 47.5° | 978.3  | 553.5 | 45.5  | 32.8  | 24.8  | 16.3  | 12.7  | 11.9  | 12.0  | 12.7  | 12.8  |
| 50°   | 1086.5 | 591.4 | 41.9  | 30.3  | 22.4  | 13.6  | 11.0  | 10.4  | 10.6  | 11.4  | 11.6  |
| 52.5° | 1209.7 | 642.3 | 38.8  | 27.8  | 19.5  | 11.1  | 9.3   | 8.9   | 9.3   | 10.2  | 10.4  |
| 55°   | 1315.4 | 687.9 | 35.4  | 26.1  | 15.6  | 9.3   | 7.6   | 7.6   | 8.1   | 9.2   | 9.3   |
| 57.5° | 1417.0 | 735.7 | 32.1  | 22.4  | 12.2  | 7.4   | 6.4   | 6.6   | 7.1   | 8.3   | 8.4   |
| 60°   | 1566.3 | 816.6 | 28.3  | 18.9  | 9.3   | 5.8   | 5.3   | 5.5   | 6.4   | 7.4   | 7.6   |
| 62.5° | 1819.6 | 939.8 | 24.6  | 15.6  | 7.1   | 4.6   | 4.2   | 4.6   | 5.7   | 6.9   | 7.1   |
| 65°   | 2048.3 | 989.9 | 20.1  | 13.1  | 5.5   | 3.7   | 3.7   | 4.2   | 5.5   | 6.7   | 6.9   |
| 67.5° | 1920.8 | 833.4 | 15.6  | 10.4  | 4.2   | 2.8   | 3.0   | 4.0   | 5.3   | 6.7   | 6.9   |
| 69°   | 1698.8 | 681.4 | 13.4  | 8.3   | 3.7   | 2.5   | 2.8   | 4.0   | 5.3   | 6.6   | 6.7   |
| 70°   | 1525.7 | 575.3 | 11.9  | 6.9   | 3.1   | 2.5   | 2.8   | 3.9   | 5.3   | 6.6   | 6.7   |
| 72.5° | 1021.8 | 310.6 | 9.5   | 5.1   | 3.0   | 2.3   | 2.3   | 3.9   | 5.1   | 6.4   | 6.6   |
| 75°   | 439.2  | 85.8  | 7.6   | 3.7   | 2.5   | 2.2   | 2.2   | 3.7   | 4.9   | 6.1   | 6.6   |
| 77.5° | 80.3   | 21.7  | 6.1   | 3.1   | 2.5   | 2.2   | 1.8   | 3.4   | 4.6   | 5.8   | 6.1   |
| 80°   | 31.9   | 10.8  | 4.9   | 2.8   | 2.3   | 1.8   | 1.6   | 3.1   | 4.4   | 5.7   | 5.8   |
| 82.5° | 19.3   | 6.1   | 4.0   | 2.5   | 2.3   | 1.6   | 1.4   | 2.8   | 4.2   | 5.5   | 5.7   |
| 85°   | 15.6   | 4.2   | 3.1   | 2.5   | 2.2   | 1.6   | 1.3   | 2.5   | 3.9   | 5.3   | 5.5   |
| 87.5° | 7.6    | 3.0   | 3.0   | 2.3   | 2.2   | 1.6   | 1.3   | 2.3   | 3.7   | 5.1   | 5.3   |
| 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)