

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386934

Luminaire Tested: GAW-SA2C-827-U-T4FT-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386934  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2C-827-U-T4FT-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7706 lumens  
Efficiency: N/A  
Efficacy: 69.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

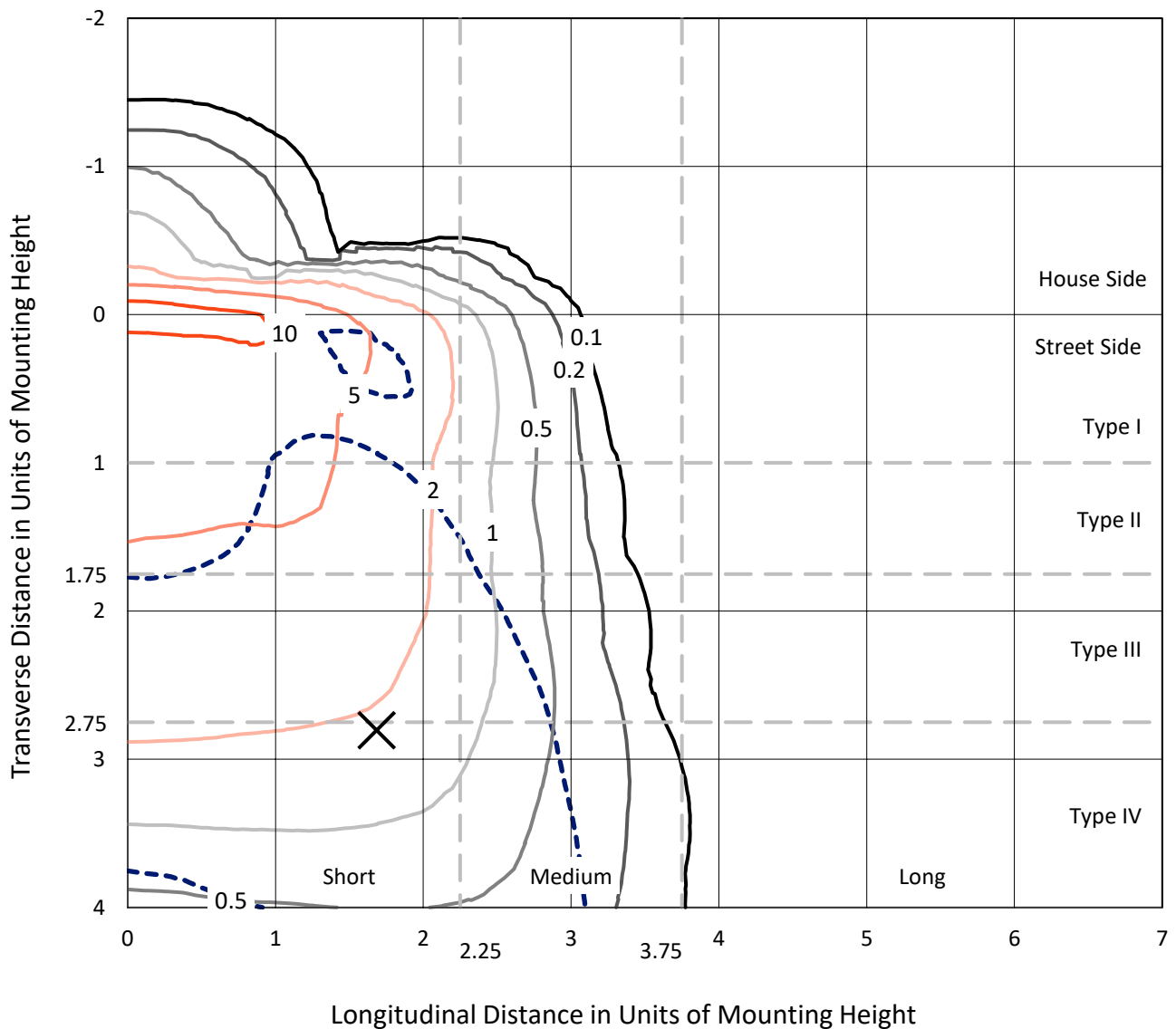
Input Watts (W): 111  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

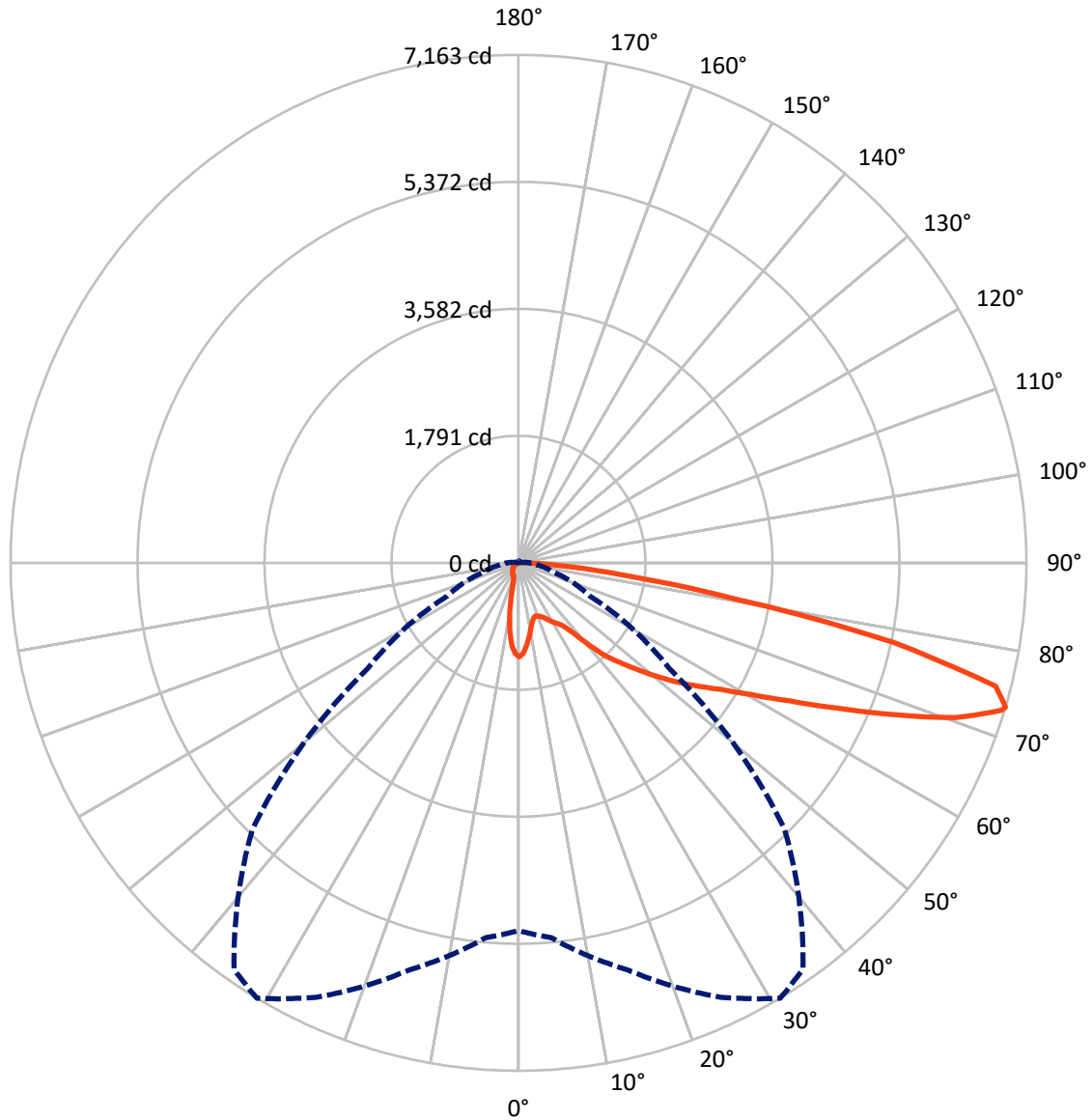
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 702.4    | 0.0    | 702.4  |
|                    | % Fixture | 9.1      | 0.0    | 9.1    |
| <b>Street Side</b> | Lumens    | 7003.6   | 0.0    | 7003.6 |
|                    | % Fixture | 90.9     | 0.0    | 90.9   |
| <b>Total</b>       | Lumens    | 7706.0   | 0.0    | 7706.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 109.9  | 1.4       |
| 10°-20°   | 238.7  | 3.1       |
| 20°-30°   | 357.6  | 4.6       |
| 30°-40°   | 569.0  | 7.4       |
| 40°-50°   | 1016.0 | 13.2      |
| 50°-60°   | 1576.6 | 20.5      |
| 60°-70°   | 2095.9 | 27.2      |
| 70°-80°   | 1576.5 | 20.5      |
| 80°-90°   | 165.7  | 2.1       |
| 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°    | 7706.0 | 100.0     |
| 0°-180°   | 7706.0 | 100.0     |

**Coefficient of Utilization**

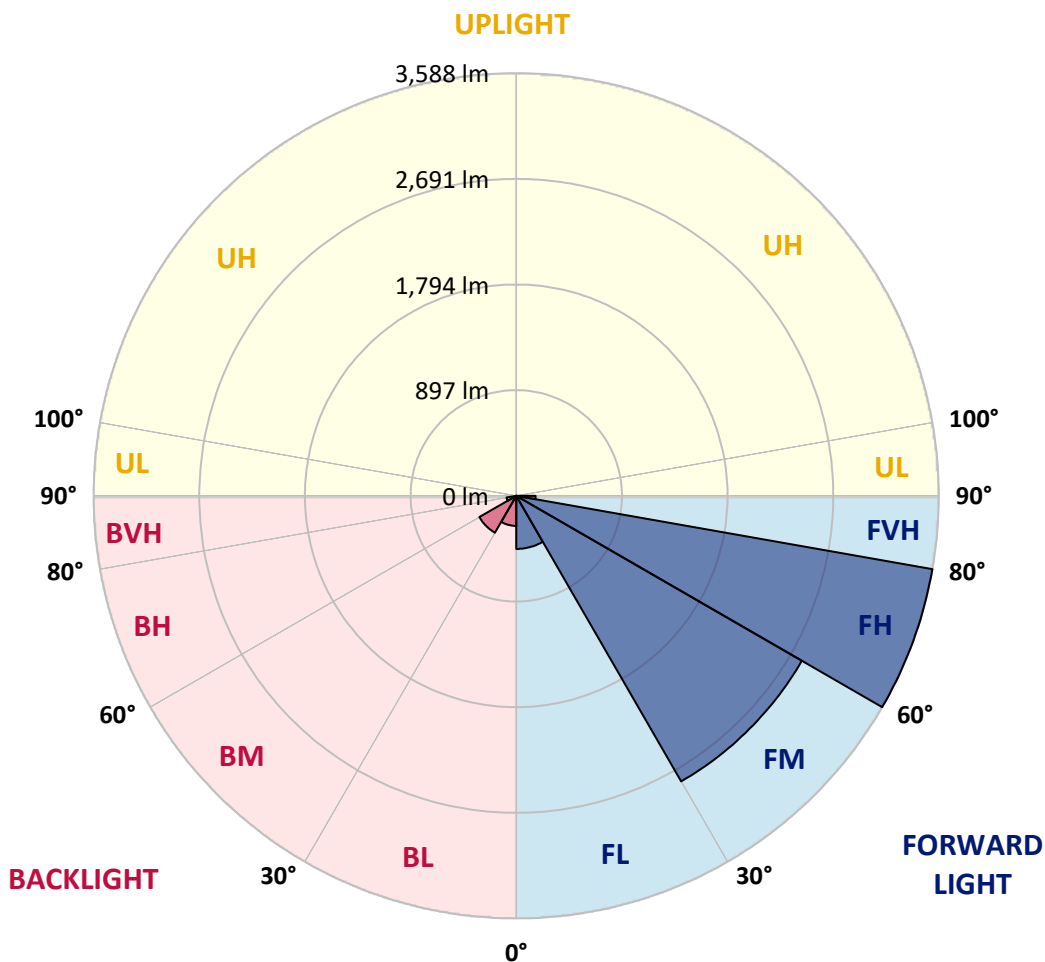


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 450.8  | 5.9       |                         |      |         |
| FM (30°-60°)   | 2800.1 | 36.3      |                         |      |         |
| FH (60°-80°)   | 3588.4 | 46.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 164.3  | 2.1       |                         |      | G2/225  |
| BL (0°-30°)    | 255.4  | 3.3       | B1/500                  |      |         |
| BM (30°-60°)   | 361.6  | 4.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 84.1   | 1.1       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 1.4    | 0.0       |                         |      | G0/10   |
| 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°    | 31°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1325.8 | 1325.8 | 1325.8 | 1325.8 | 1325.8 | 1325.8 | 1325.8 | 1325.8 | 1325.8 | 1325.8 | 1325.8 |
| 2.5°  | 1256.4 | 1261.7 | 1267.4 | 1268.5 | 1277.9 | 1278.3 | 1291.9 | 1302.1 | 1312.3 | 1322.1 | 1325.5 |
| 5°    | 1127.5 | 1136.2 | 1146.3 | 1156.5 | 1176.5 | 1184.4 | 1217.6 | 1251.5 | 1284.0 | 1314.9 | 1330.0 |
| 7.5°  | 989.8  | 999.7  | 1014.0 | 1039.2 | 1061.5 | 1077.0 | 1129.4 | 1189.7 | 1250.0 | 1307.0 | 1339.8 |
| 10°   | 864.3  | 873.3  | 888.4  | 915.2  | 949.5  | 970.6  | 1041.1 | 1124.8 | 1213.5 | 1299.8 | 1354.5 |
| 12.5° | 784.3  | 789.2  | 797.5  | 826.2  | 857.1  | 880.9  | 963.8  | 1067.5 | 1183.3 | 1299.4 | 1378.2 |
| 15°   | 769.6  | 771.1  | 764.4  | 777.2  | 801.3  | 824.3  | 908.4  | 1021.1 | 1160.3 | 1305.5 | 1409.2 |
| 17.5° | 793.0  | 792.3  | 769.6  | 768.1  | 787.4  | 806.2  | 881.2  | 989.1  | 1144.1 | 1319.4 | 1449.1 |
| 20°   | 828.5  | 825.8  | 786.6  | 779.4  | 799.8  | 817.5  | 879.4  | 977.0  | 1138.0 | 1342.8 | 1497.8 |
| 22.5° | 875.6  | 871.1  | 809.6  | 802.1  | 823.9  | 842.4  | 902.7  | 988.7  | 1143.3 | 1374.1 | 1554.3 |
| 25°   | 934.0  | 927.3  | 849.2  | 840.9  | 863.1  | 881.6  | 944.6  | 1022.3 | 1159.2 | 1412.2 | 1626.0 |
| 27.5° | 1000.0 | 990.2  | 912.5  | 891.1  | 916.3  | 935.5  | 1000.4 | 1073.6 | 1184.0 | 1452.5 | 1713.9 |
| 30°   | 1062.3 | 1049.4 | 979.3  | 943.8  | 974.8  | 996.3  | 1060.7 | 1134.7 | 1224.0 | 1514.8 | 1834.1 |
| 32.5° | 1124.8 | 1110.5 | 1038.9 | 996.6  | 1024.5 | 1047.9 | 1123.0 | 1218.7 | 1299.1 | 1609.8 | 1994.0 |
| 35°   | 1268.9 | 1253.8 | 1165.9 | 1096.2 | 1095.8 | 1109.0 | 1210.1 | 1333.8 | 1398.2 | 1742.1 | 2184.8 |
| 37.5° | 1511.4 | 1502.7 | 1419.0 | 1286.6 | 1251.2 | 1236.5 | 1328.8 | 1471.0 | 1540.8 | 1924.3 | 2400.2 |
| 40°   | 1776.8 | 1769.3 | 1675.4 | 1555.5 | 1501.6 | 1465.4 | 1499.3 | 1662.2 | 1742.1 | 2146.7 | 2620.0 |
| 42.5° | 2076.6 | 2040.8 | 1873.4 | 1837.5 | 1789.3 | 1761.7 | 1731.2 | 1897.9 | 1989.5 | 2388.8 | 2837.9 |
| 45°   | 2348.9 | 2288.5 | 2071.3 | 2017.0 | 2006.1 | 2012.9 | 2029.9 | 2214.6 | 2267.8 | 2676.6 | 3055.1 |
| 47.5° | 2511.0 | 2463.5 | 2296.8 | 2244.8 | 2241.8 | 2286.6 | 2414.9 | 2572.5 | 2545.0 | 2927.3 | 3246.3 |
| 50°   | 2665.2 | 2622.3 | 2483.9 | 2496.7 | 2510.6 | 2571.7 | 2851.9 | 2940.5 | 2798.0 | 3154.7 | 3421.7 |
| 52.5° | 2790.1 | 2724.4 | 2652.0 | 2724.1 | 2792.7 | 2891.1 | 3302.9 | 3270.8 | 2977.5 | 3335.7 | 3571.8 |
| 55°   | 2862.1 | 2832.3 | 2867.4 | 2939.8 | 3068.7 | 3228.6 | 3728.6 | 3545.7 | 3108.7 | 3500.9 | 3671.7 |
| 57.5° | 3126.0 | 3067.6 | 3137.4 | 3199.9 | 3368.1 | 3591.7 | 4093.3 | 3750.5 | 3203.3 | 3603.1 | 3694.7 |
| 60°   | 3445.4 | 3398.3 | 3439.4 | 3543.5 | 3770.5 | 4033.3 | 4434.1 | 3917.5 | 3252.7 | 3668.7 | 3635.1 |
| 62.5° | 3953.7 | 3891.5 | 3865.9 | 3982.4 | 4283.3 | 4570.3 | 4692.8 | 4033.3 | 3241.8 | 3639.6 | 3430.7 |
| 65°   | 4634.8 | 4570.3 | 4455.6 | 4561.2 | 4944.0 | 5146.5 | 4982.1 | 4057.8 | 3166.4 | 3404.7 | 2914.1 |
| 67.5° | 5332.4 | 5285.6 | 5187.6 | 5365.6 | 5711.0 | 5776.2 | 5287.9 | 3998.2 | 2923.5 | 2760.6 | 2058.9 |
| 70°   | 5793.2 | 5773.2 | 5836.9 | 6230.6 | 6538.7 | 6519.8 | 5568.4 | 3678.1 | 2278.7 | 1697.6 | 1018.5 |
| 72.5° | 5461.0 | 5556.7 | 6027.3 | 6741.2 | 7117.5 | 6963.6 | 5424.4 | 2824.4 | 1302.5 | 653.1  | 294.5  |
| 73°   | 5185.7 | 5308.2 | 5941.7 | 6760.4 | 7163.1 | 6994.6 | 5303.3 | 2592.5 | 1110.1 | 515.5  | 223.2  |
| 75°   | 3607.6 | 3758.0 | 4919.1 | 6296.2 | 6949.7 | 6664.2 | 4420.6 | 1586.8 | 514.3  | 228.5  | 90.1   |
| 77.5° | 1751.6 | 1862.8 | 2708.6 | 4549.2 | 5404.8 | 5206.8 | 2752.0 | 591.3  | 232.3  | 142.9  | 41.5   |
| 80°   | 653.9  | 727.0  | 1175.8 | 2315.3 | 3123.4 | 3205.2 | 1210.4 | 223.6  | 154.6  | 115.0  | 21.1   |
| 82.5° | 171.2  | 190.8  | 433.6  | 1032.5 | 1600.7 | 1675.4 | 381.6  | 112.7  | 113.1  | 94.6   | 12.8   |
| 85°   | 54.7   | 62.6   | 135.4  | 463.4  | 754.2  | 662.2  | 99.6   | 54.7   | 82.2   | 70.5   | 7.2    |
| 87.5° | 6.8    | 8.7    | 43.0   | 109.0  | 166.3  | 92.4   | 15.5   | 16.2   | 35.1   | 39.2   | 4.1    |
| 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°    | 1325.8 | 1325.8 | 1325.8 | 1325.8 | 1325.8 | 1325.8 | 1325.8 | 1325.8 | 1325.8 | 1325.8 | 1325.8 |
| 2.5°  | 1328.8 | 1327.0 | 1327.3 | 1317.5 | 1311.1 | 1298.3 | 1285.1 | 1279.1 | 1272.7 | 1270.0 | 1272.7 |
| 5°    | 1335.6 | 1332.2 | 1322.4 | 1292.3 | 1260.2 | 1218.7 | 1179.9 | 1150.5 | 1113.5 | 1103.4 | 1113.9 |
| 7.5°  | 1346.2 | 1339.4 | 1310.7 | 1249.3 | 1178.0 | 1098.8 | 1009.8 | 945.0  | 891.8  | 857.5  | 869.9  |
| 10°   | 1361.7 | 1348.8 | 1291.1 | 1186.7 | 1059.2 | 919.0  | 792.6  | 694.2  | 624.5  | 595.8  | 594.7  |
| 12.5° | 1387.7 | 1363.5 | 1267.0 | 1105.2 | 914.1  | 727.0  | 561.5  | 454.8  | 398.2  | 361.6  | 360.9  |
| 15°   | 1416.3 | 1380.9 | 1236.5 | 1007.6 | 745.1  | 520.8  | 361.6  | 280.6  | 244.0  | 232.3  | 230.8  |
| 17.5° | 1451.4 | 1400.9 | 1196.9 | 887.3  | 568.3  | 345.0  | 236.1  | 212.7  | 211.2  | 210.0  | 210.0  |
| 20°   | 1495.5 | 1424.6 | 1146.0 | 749.6  | 403.1  | 230.4  | 200.6  | 202.1  | 202.9  | 201.4  | 201.7  |
| 22.5° | 1546.8 | 1448.8 | 1085.3 | 601.8  | 272.6  | 192.7  | 191.9  | 193.8  | 194.6  | 193.8  | 194.2  |
| 25°   | 1606.4 | 1476.7 | 1011.3 | 446.8  | 196.8  | 182.9  | 184.8  | 187.4  | 189.3  | 189.3  | 189.3  |
| 27.5° | 1680.3 | 1510.6 | 922.4  | 311.8  | 170.1  | 172.7  | 178.0  | 182.9  | 185.5  | 186.3  | 186.3  |
| 30°   | 1776.5 | 1552.8 | 815.6  | 213.8  | 154.6  | 159.1  | 168.9  | 178.4  | 183.3  | 184.0  | 184.4  |
| 32.5° | 1897.9 | 1600.4 | 692.0  | 158.0  | 141.4  | 144.8  | 155.4  | 171.2  | 180.6  | 182.1  | 182.1  |
| 35°   | 2037.0 | 1655.4 | 558.8  | 137.6  | 132.0  | 133.1  | 141.4  | 159.5  | 176.1  | 180.2  | 180.6  |
| 37.5° | 2189.4 | 1709.7 | 425.0  | 128.6  | 124.1  | 124.1  | 130.1  | 145.6  | 165.2  | 178.0  | 179.5  |
| 40°   | 2331.5 | 1742.5 | 297.9  | 121.4  | 116.9  | 116.9  | 122.2  | 133.5  | 152.0  | 171.2  | 175.3  |
| 42.5° | 2462.7 | 1753.8 | 207.4  | 114.6  | 110.1  | 111.2  | 115.8  | 124.8  | 138.8  | 158.0  | 161.8  |
| 45°   | 2597.7 | 1751.9 | 151.2  | 106.7  | 103.3  | 106.7  | 110.1  | 116.9  | 127.1  | 138.0  | 138.8  |
| 47.5° | 2699.6 | 1736.1 | 119.9  | 99.2   | 96.9   | 101.4  | 104.5  | 109.0  | 114.6  | 113.9  | 113.9  |
| 50°   | 2795.0 | 1697.6 | 96.5   | 89.0   | 90.5   | 95.8   | 97.3   | 98.8   | 99.2   | 92.0   | 91.3   |
| 52.5° | 2867.4 | 1637.7 | 77.3   | 78.1   | 84.1   | 89.4   | 87.9   | 85.6   | 81.8   | 73.2   | 71.6   |
| 55°   | 2891.5 | 1522.3 | 60.7   | 64.5   | 74.7   | 81.5   | 75.8   | 70.9   | 63.7   | 56.6   | 55.1   |
| 57.5° | 2847.8 | 1373.3 | 49.4   | 50.2   | 63.0   | 68.6   | 62.2   | 56.6   | 48.6   | 42.6   | 41.5   |
| 60°   | 2755.0 | 1207.8 | 40.7   | 37.7   | 48.6   | 53.5   | 49.4   | 43.7   | 36.6   | 32.1   | 31.7   |
| 62.5° | 2571.0 | 1031.3 | 33.6   | 29.4   | 37.0   | 41.1   | 38.5   | 34.3   | 28.3   | 25.3   | 24.9   |
| 65°   | 2184.1 | 825.1  | 27.2   | 23.8   | 28.7   | 32.1   | 29.8   | 26.8   | 22.2   | 20.0   | 19.6   |
| 67.5° | 1524.6 | 557.7  | 22.2   | 19.6   | 22.6   | 25.3   | 23.4   | 21.9   | 17.7   | 17.3   | 17.7   |
| 70°   | 735.3  | 268.9  | 18.5   | 15.8   | 17.7   | 19.6   | 18.9   | 17.7   | 17.0   | 19.6   | 22.6   |
| 72.5° | 210.8  | 90.1   | 14.7   | 13.2   | 14.3   | 15.5   | 16.2   | 15.8   | 18.5   | 23.8   | 27.5   |
| 73°   | 162.1  | 72.8   | 14.0   | 12.4   | 13.6   | 15.1   | 15.8   | 15.5   | 18.9   | 24.1   | 27.5   |
| 75°   | 69.4   | 35.1   | 10.6   | 10.2   | 11.3   | 13.2   | 14.0   | 14.0   | 18.9   | 24.5   | 26.4   |
| 77.5° | 31.3   | 18.9   | 6.8    | 7.9    | 9.8    | 10.6   | 11.7   | 11.7   | 15.1   | 18.9   | 18.9   |
| 80°   | 17.7   | 10.2   | 5.3    | 6.0    | 7.2    | 7.2    | 7.2    | 6.4    | 6.8    | 7.5    | 8.3    |
| 82.5° | 11.3   | 6.8    | 4.1    | 4.9    | 4.5    | 3.8    | 3.0    | 3.0    | 2.6    | 3.0    | 3.8    |
| 85°   | 6.4    | 3.8    | 3.8    | 3.0    | 1.9    | 1.5    | 1.9    | 1.5    | 0.4    | 0.0    | 0.4    |
| 87.5° | 3.8    | 2.3    | 1.1    | 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)