

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: P385489

Luminaire Tested: GAW-SA1A-740-U-SL2

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385489  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1A-740-U-SL2  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4874 lumens  
Efficiency: N/A  
Efficacy: 143.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

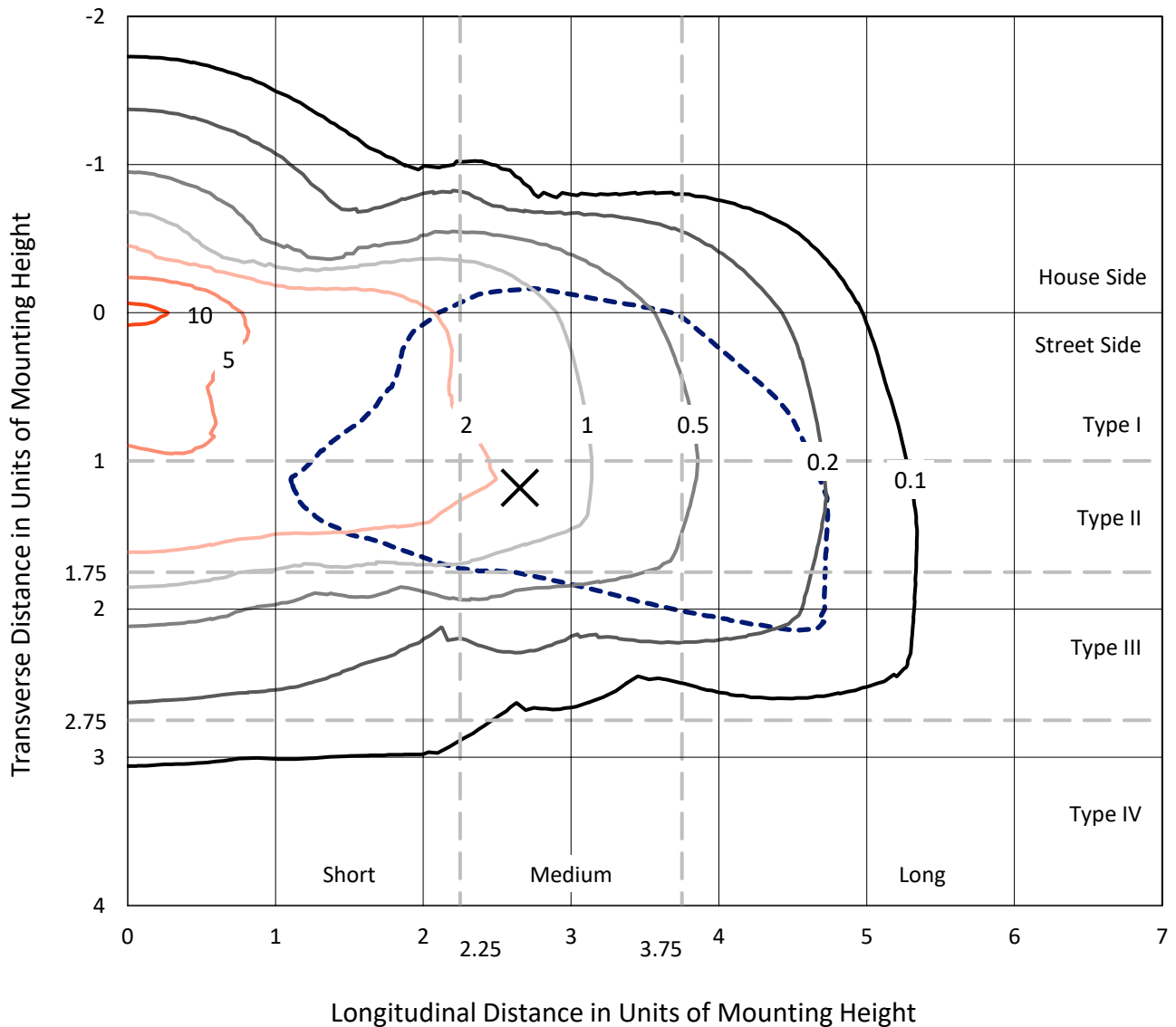
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

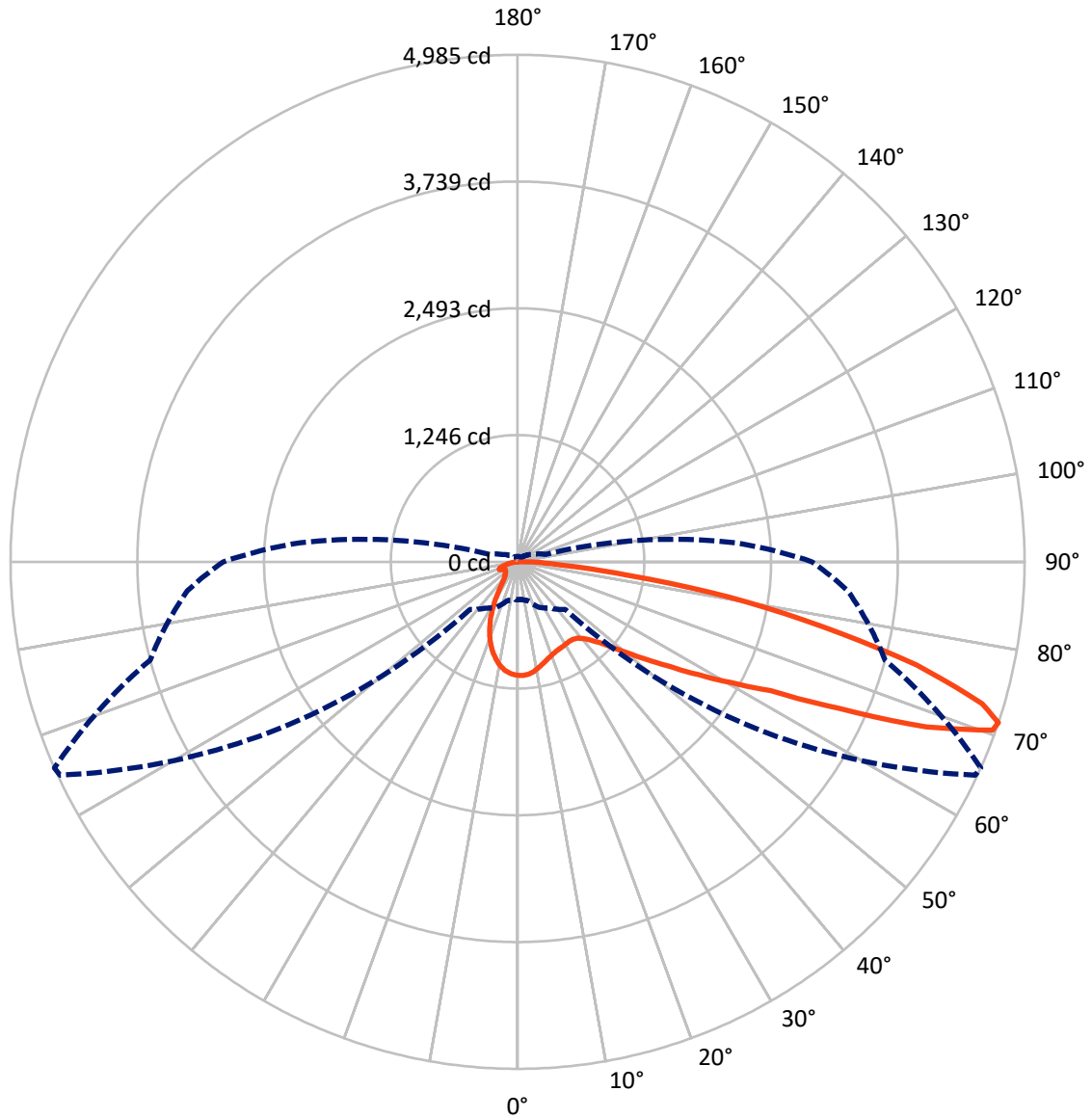
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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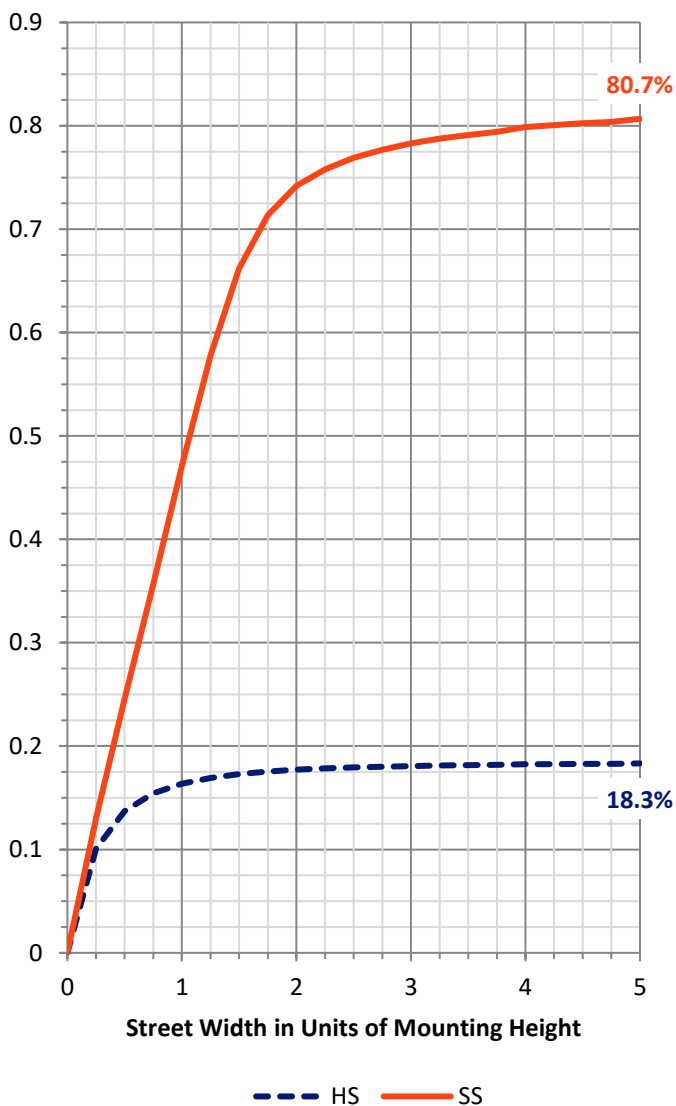
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 903.3    | 0.0    | 903.3  |
|                    | % Fixture | 18.5     | 0.0    | 18.5   |
| <b>Street Side</b> | Lumens    | 3970.7   | 0.0    | 3970.7 |
|                    | % Fixture | 81.5     | 0.0    | 81.5   |
| <b>Total</b>       | Lumens    | 4874.0   | 0.0    | 4874.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 98.3   | 2.0       |
| 10°-20°   | 235.7  | 4.8       |
| 20°-30°   | 316.6  | 6.5       |
| 30°-40°   | 416.5  | 8.5       |
| 40°-50°   | 605.9  | 12.4      |
| 50°-60°   | 946.5  | 19.4      |
| 60°-70°   | 1185.7 | 24.3      |
| 70°-80°   | 904.4  | 18.6      |
| 80°-90°   | 164.2  | 3.4       |
| 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°    | 4874.0 | 100.0     |
| 0°-180°   | 4874.0 | 100.0     |

**Coefficient of Utilization**

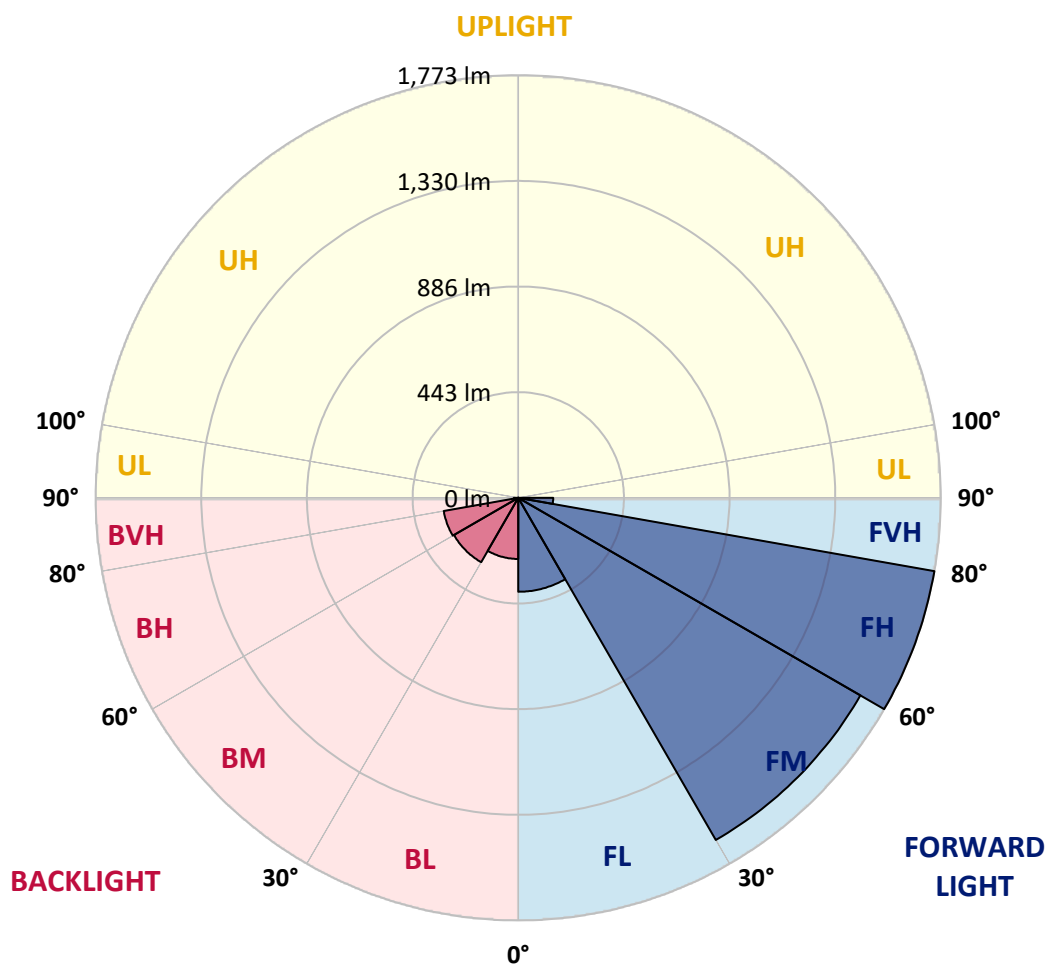


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 394.1  | 8.1       |                         |      |         |
| FM (30°-60°)   | 1657.4 | 34.0      |                         |      |         |
| FH (60°-80°)   | 1772.7 | 36.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 146.5  | 3.0       |                         |      | G2/225  |
| BL (0°-30°)    | 256.5  | 5.3       | B1/500                  |      |         |
| BM (30°-60°)   | 311.6  | 6.4       | B1/1000                 |      |         |
| BH (60°-80°)   | 317.4  | 6.5       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 17.8   | 0.4       |                         |      | 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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1116.5 | 1116.5 | 1116.5 | 1116.5 | 1116.5 | 1116.5 | 1116.5 | 1116.5 | 1116.5 | 1116.5 | 1116.5 |
| 2.5°  | 1095.8 | 1094.2 | 1099.2 | 1104.4 | 1106.4 | 1109.8 | 1114.9 | 1117.7 | 1117.5 | 1118.1 | 1116.4 |
| 5°    | 1023.1 | 1021.0 | 1031.1 | 1039.3 | 1055.1 | 1073.0 | 1094.7 | 1110.1 | 1110.5 | 1119.2 | 1121.6 |
| 7.5°  | 954.3  | 952.8  | 964.4  | 977.7  | 996.1  | 1023.3 | 1058.5 | 1091.8 | 1093.8 | 1117.5 | 1125.8 |
| 10°   | 899.1  | 898.8  | 910.1  | 924.5  | 945.9  | 976.4  | 1016.7 | 1065.6 | 1068.6 | 1109.5 | 1126.5 |
| 12.5° | 856.0  | 856.7  | 866.5  | 883.0  | 905.5  | 937.3  | 981.1  | 1036.1 | 1041.0 | 1096.7 | 1122.6 |
| 15°   | 824.2  | 826.9  | 834.8  | 851.5  | 873.7  | 906.0  | 951.0  | 1008.8 | 1016.2 | 1082.4 | 1120.4 |
| 17.5° | 806.1  | 809.1  | 814.6  | 828.4  | 849.3  | 880.4  | 923.0  | 986.5  | 993.2  | 1071.4 | 1120.6 |
| 20°   | 800.7  | 803.2  | 806.4  | 814.8  | 832.5  | 860.8  | 901.0  | 966.3  | 973.5  | 1062.7 | 1122.3 |
| 22.5° | 811.3  | 813.1  | 813.5  | 812.8  | 823.6  | 846.6  | 885.0  | 951.5  | 959.2  | 1057.0 | 1123.4 |
| 25°   | 834.0  | 836.5  | 834.7  | 828.4  | 824.9  | 839.0  | 876.7  | 941.7  | 949.4  | 1052.8 | 1121.1 |
| 27.5° | 868.2  | 868.5  | 867.0  | 858.9  | 842.2  | 839.9  | 874.2  | 936.0  | 943.4  | 1047.9 | 1116.2 |
| 30°   | 914.6  | 916.8  | 914.1  | 903.2  | 875.9  | 853.3  | 877.2  | 930.4  | 937.2  | 1041.7 | 1108.3 |
| 32.5° | 969.0  | 974.3  | 974.2  | 962.7  | 923.7  | 883.5  | 889.7  | 927.1  | 932.3  | 1035.1 | 1098.7 |
| 35°   | 1025.3 | 1032.7 | 1046.5 | 1041.7 | 993.4  | 931.1  | 913.6  | 932.4  | 936.0  | 1034.3 | 1092.0 |
| 37.5° | 1083.9 | 1091.3 | 1119.7 | 1132.9 | 1076.3 | 999.2  | 951.3  | 951.5  | 953.1  | 1044.5 | 1091.5 |
| 40°   | 1145.1 | 1153.1 | 1195.8 | 1230.0 | 1183.9 | 1085.6 | 1012.0 | 991.2  | 989.3  | 1069.8 | 1101.4 |
| 42.5° | 1231.0 | 1238.0 | 1289.4 | 1332.9 | 1303.2 | 1196.1 | 1096.0 | 1052.4 | 1048.6 | 1119.2 | 1133.2 |
| 45°   | 1339.5 | 1345.6 | 1400.1 | 1446.7 | 1431.4 | 1322.3 | 1201.5 | 1136.7 | 1136.1 | 1201.7 | 1197.7 |
| 47.5° | 1468.6 | 1473.3 | 1522.3 | 1567.4 | 1572.9 | 1467.6 | 1334.1 | 1266.8 | 1255.9 | 1314.8 | 1297.4 |
| 50°   | 1603.0 | 1608.3 | 1641.6 | 1690.0 | 1731.3 | 1661.9 | 1504.8 | 1426.2 | 1411.5 | 1464.0 | 1438.8 |
| 52.5° | 1692.1 | 1699.0 | 1727.9 | 1789.3 | 1909.3 | 1875.0 | 1706.5 | 1619.4 | 1597.1 | 1644.9 | 1625.6 |
| 55°   | 1652.3 | 1667.8 | 1712.1 | 1810.5 | 2051.7 | 2200.4 | 1955.4 | 1844.7 | 1819.6 | 1859.3 | 1847.9 |
| 57.5° | 1471.8 | 1493.0 | 1553.4 | 1705.4 | 2071.7 | 2487.2 | 2331.7 | 2110.1 | 2092.4 | 2081.0 | 2086.2 |
| 60°   | 1141.8 | 1162.1 | 1237.0 | 1435.1 | 1932.2 | 2696.5 | 2898.0 | 2437.2 | 2411.6 | 2303.4 | 2308.1 |
| 62.5° | 808.1  | 797.8  | 849.1  | 994.0  | 1570.1 | 2721.1 | 3542.3 | 2874.7 | 2790.6 | 2538.3 | 2517.6 |
| 65°   | 616.2  | 613.9  | 636.9  | 683.0  | 951.0  | 2427.1 | 3926.1 | 3610.1 | 3478.7 | 2814.7 | 2765.9 |
| 67.5° | 506.4  | 502.1  | 524.9  | 592.0  | 612.4  | 1565.8 | 3934.6 | 4463.3 | 4334.2 | 3158.6 | 3052.9 |
| 70°   | 416.3  | 411.6  | 432.8  | 519.5  | 565.9  | 794.1  | 3311.4 | 4962.9 | 4956.0 | 3594.1 | 3269.7 |
| 71°   | 373.2  | 369.9  | 395.3  | 491.5  | 556.0  | 661.8  | 2859.1 | 4964.3 | 4985.0 | 3741.5 | 3256.9 |
| 72.5° | 303.9  | 305.1  | 332.0  | 437.5  | 548.6  | 584.4  | 2101.3 | 4732.9 | 4776.6 | 3882.1 | 3140.6 |
| 75°   | 201.9  | 202.9  | 238.3  | 336.6  | 531.9  | 571.8  | 1154.9 | 3971.4 | 4051.9 | 3797.9 | 2865.8 |
| 77.5° | 135.6  | 135.3  | 159.4  | 230.9  | 463.4  | 571.8  | 677.2  | 2970.3 | 3058.7 | 3022.0 | 2209.4 |
| 80°   | 93.4   | 92.7   | 109.7  | 159.4  | 350.9  | 578.7  | 523.5  | 2081.6 | 2108.4 | 1632.0 | 897.9  |
| 82.5° | 57.2   | 57.7   | 71.7   | 112.6  | 238.8  | 520.8  | 494.2  | 1135.0 | 1105.9 | 457.7  | 224.3  |
| 85°   | 32.8   | 32.6   | 45.8   | 76.2   | 153.3  | 439.5  | 482.0  | 488.5  | 448.1  | 137.8  | 81.1   |
| 87.5° | 11.8   | 12.6   | 24.6   | 42.2   | 87.8   | 306.1  | 408.9  | 254.1  | 229.0  | 62.3   | 36.7   |
| 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°    | 1116.5 | 1116.5 | 1116.5 | 1116.5 | 1116.5 | 1116.5 | 1116.5 | 1116.5 | 1116.5 | 1116.5 | 1116.5 |
| 2.5°  | 1115.2 | 1116.2 | 1115.0 | 1108.3 | 1102.6 | 1093.3 | 1088.1 | 1080.9 | 1078.7 | 1077.7 | 1080.4 |
| 5°    | 1119.4 | 1119.7 | 1109.8 | 1092.1 | 1072.3 | 1048.9 | 1032.1 | 1011.4 | 1001.6 | 997.4  | 1000.1 |
| 7.5°  | 1123.3 | 1121.8 | 1100.0 | 1066.2 | 1029.5 | 988.8  | 952.6  | 919.5  | 900.1  | 892.2  | 892.9  |
| 10°   | 1123.8 | 1117.4 | 1082.5 | 1030.2 | 973.3  | 913.6  | 858.1  | 806.9  | 774.6  | 753.6  | 760.0  |
| 12.5° | 1118.6 | 1107.8 | 1056.8 | 983.6  | 904.7  | 823.2  | 748.2  | 671.4  | 625.3  | 604.0  | 604.6  |
| 15°   | 1114.5 | 1095.0 | 1025.2 | 928.7  | 822.7  | 714.9  | 612.4  | 522.2  | 473.0  | 451.2  | 440.9  |
| 17.5° | 1111.2 | 1081.2 | 988.5  | 867.0  | 726.0  | 589.1  | 466.0  | 385.5  | 358.6  | 352.2  | 349.5  |
| 20°   | 1106.4 | 1066.6 | 947.6  | 795.5  | 615.7  | 448.5  | 340.3  | 300.5  | 300.7  | 308.1  | 309.1  |
| 22.5° | 1099.9 | 1049.9 | 904.0  | 715.2  | 497.4  | 326.6  | 266.7  | 255.3  | 266.9  | 281.0  | 283.6  |
| 25°   | 1090.1 | 1030.2 | 855.5  | 626.5  | 379.3  | 251.1  | 227.9  | 227.3  | 241.5  | 256.3  | 258.5  |
| 27.5° | 1076.3 | 1004.5 | 801.7  | 531.3  | 279.5  | 213.4  | 204.1  | 207.7  | 218.1  | 228.9  | 229.7  |
| 30°   | 1057.8 | 974.5  | 742.3  | 430.8  | 219.1  | 190.0  | 189.0  | 192.2  | 198.6  | 206.1  | 206.8  |
| 32.5° | 1037.4 | 944.1  | 678.8  | 333.5  | 187.6  | 177.4  | 178.4  | 179.9  | 182.9  | 185.9  | 186.6  |
| 35°   | 1018.9 | 912.9  | 613.9  | 253.4  | 172.7  | 169.1  | 168.4  | 168.1  | 168.4  | 167.4  | 167.6  |
| 37.5° | 1007.0 | 887.2  | 546.2  | 201.8  | 164.1  | 161.9  | 159.9  | 157.3  | 154.5  | 152.8  | 153.1  |
| 40°   | 1002.6 | 868.0  | 477.7  | 174.3  | 157.0  | 155.5  | 151.6  | 146.2  | 142.9  | 141.9  | 141.9  |
| 42.5° | 1014.4 | 858.1  | 411.6  | 160.5  | 151.1  | 148.6  | 142.2  | 136.0  | 133.4  | 133.3  | 133.1  |
| 45°   | 1050.4 | 862.1  | 348.7  | 153.0  | 145.7  | 140.9  | 132.4  | 127.2  | 125.5  | 125.9  | 125.7  |
| 47.5° | 1115.0 | 887.5  | 294.8  | 147.9  | 140.3  | 134.0  | 124.5  | 120.3  | 118.3  | 118.3  | 118.5  |
| 50°   | 1224.9 | 946.9  | 251.9  | 143.7  | 135.8  | 127.6  | 118.8  | 113.6  | 110.9  | 110.7  | 110.7  |
| 52.5° | 1384.9 | 1053.3 | 225.2  | 140.2  | 130.8  | 121.8  | 113.1  | 106.5  | 103.3  | 102.7  | 102.3  |
| 55°   | 1585.5 | 1205.7 | 217.8  | 137.8  | 124.0  | 115.6  | 106.2  | 99.6   | 96.1   | 94.6   | 94.4   |
| 57.5° | 1809.9 | 1391.2 | 232.4  | 135.0  | 117.1  | 108.2  | 98.6   | 92.4   | 88.7   | 86.8   | 86.7   |
| 60°   | 2036.9 | 1593.6 | 292.1  | 130.9  | 111.4  | 100.1  | 90.9   | 85.1   | 81.4   | 79.4   | 79.1   |
| 62.5° | 2264.2 | 1807.0 | 414.1  | 130.6  | 107.4  | 92.4   | 83.0   | 78.1   | 74.5   | 72.4   | 71.9   |
| 65°   | 2520.7 | 2040.6 | 552.8  | 139.5  | 106.0  | 85.3   | 74.9   | 71.0   | 68.0   | 66.0   | 65.8   |
| 67.5° | 2815.2 | 2304.3 | 539.5  | 157.8  | 110.6  | 78.9   | 67.3   | 64.3   | 62.1   | 60.4   | 60.2   |
| 70°   | 2953.3 | 2263.0 | 335.4  | 170.8  | 117.0  | 72.7   | 60.1   | 57.9   | 56.2   | 55.0   | 54.5   |
| 71°   | 2895.4 | 2148.8 | 281.2  | 169.3  | 116.3  | 70.0   | 57.2   | 55.5   | 53.8   | 52.8   | 52.3   |
| 72.5° | 2737.6 | 1959.6 | 234.6  | 157.5  | 108.7  | 65.1   | 53.5   | 51.8   | 50.3   | 49.1   | 48.8   |
| 75°   | 2456.6 | 1750.1 | 187.8  | 125.9  | 86.7   | 55.0   | 47.0   | 45.1   | 43.9   | 43.2   | 42.6   |
| 77.5° | 1805.8 | 1249.0 | 145.2  | 99.5   | 63.8   | 44.9   | 40.1   | 38.7   | 37.5   | 36.5   | 36.0   |
| 80°   | 691.8  | 483.8  | 97.8   | 74.2   | 46.8   | 35.5   | 32.3   | 31.6   | 30.5   | 29.8   | 29.8   |
| 82.5° | 186.3  | 144.6  | 52.2   | 44.9   | 31.3   | 25.9   | 24.7   | 24.4   | 23.4   | 22.0   | 22.2   |
| 85°   | 75.4   | 63.8   | 29.3   | 24.7   | 19.2   | 15.3   | 16.7   | 16.8   | 15.7   | 14.0   | 14.1   |
| 87.5° | 33.2   | 27.1   | 16.3   | 10.9   | 8.4    | 5.9    | 7.6    | 7.6    | 6.9    | 5.7    | 5.2    |
| 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)