

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: P385659

Luminaire Tested: GAW-SA1B-727-U-SL3

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385659  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1B-727-U-SL3  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5105 lumens  
Efficiency: N/A  
Efficacy: 116.0 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

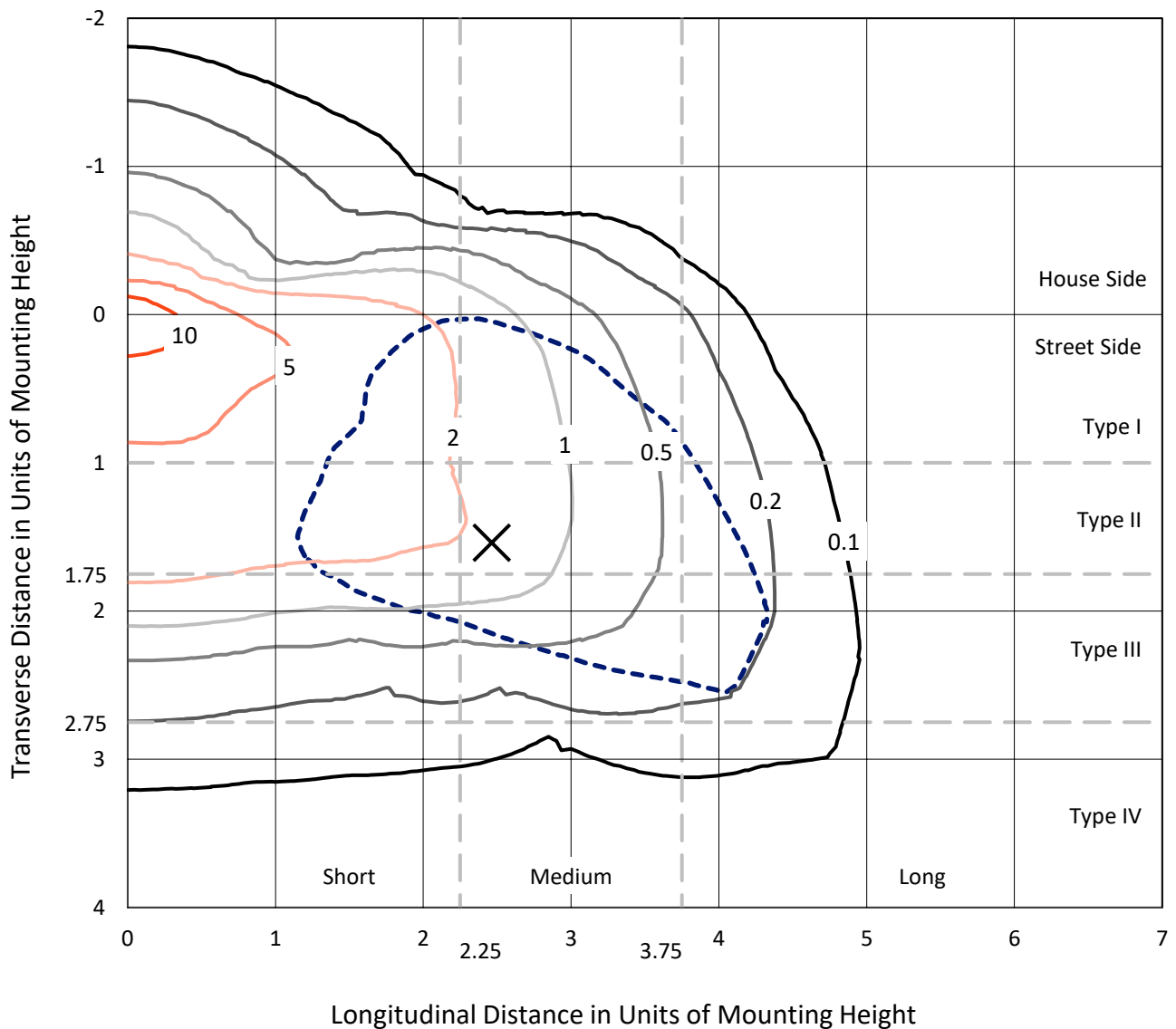
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

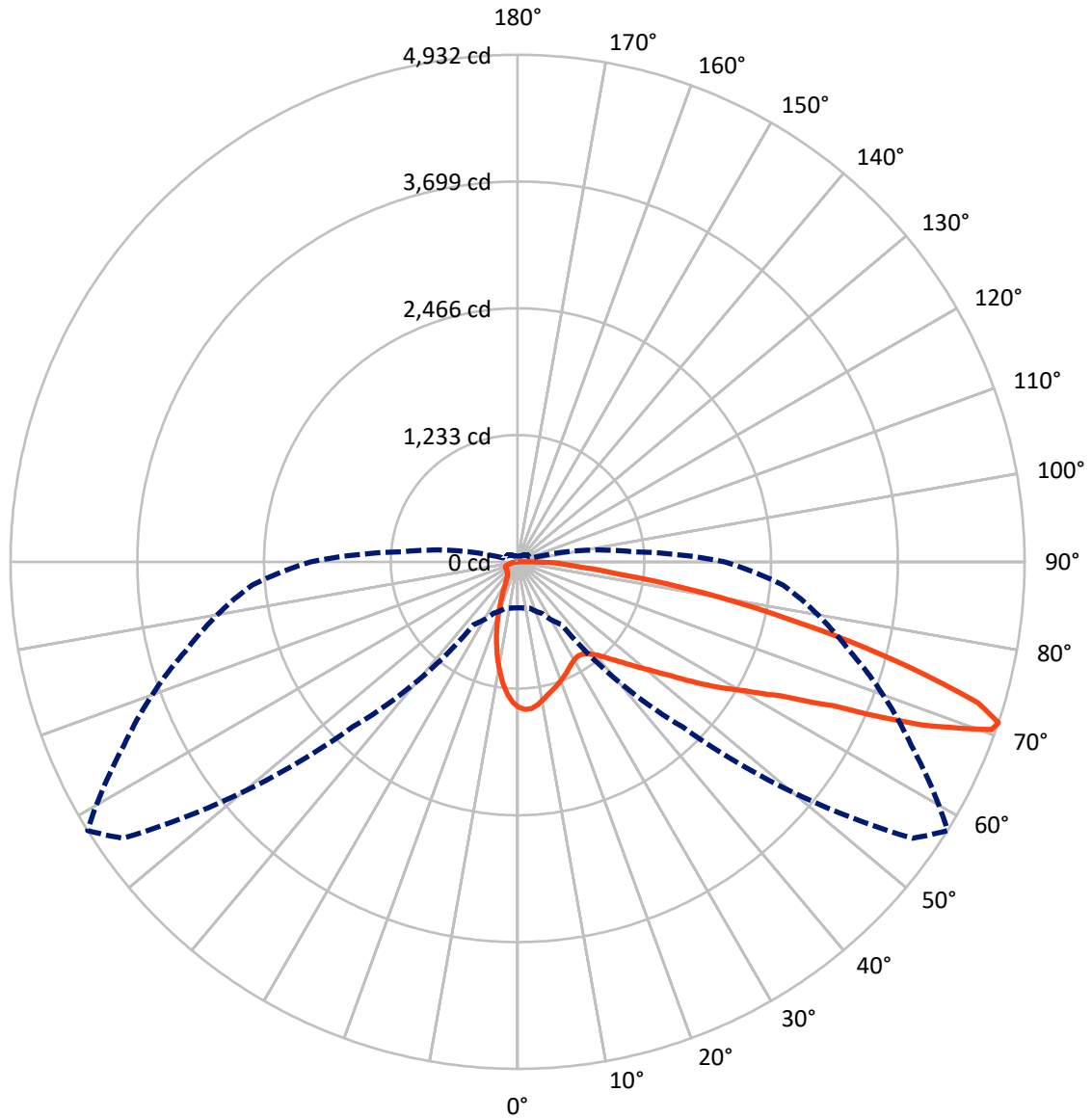
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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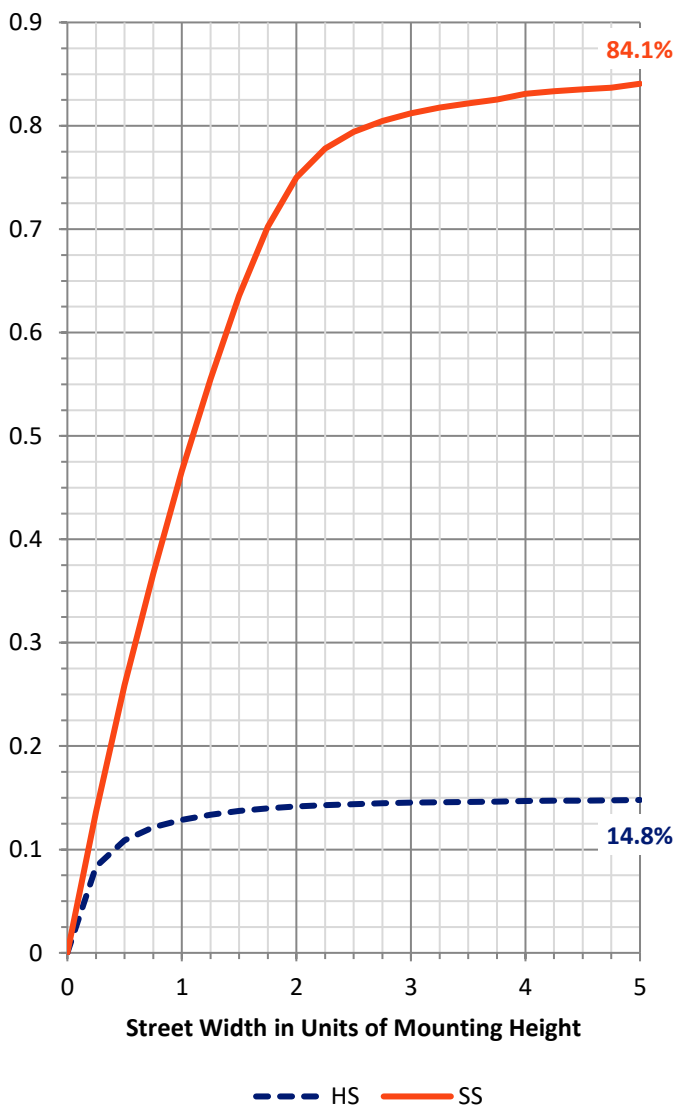
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 763.2    | 0.0    | 763.2  |
|                    | % Fixture | 15.0     | 0.0    | 15.0   |
| <b>Street Side</b> | Lumens    | 4341.8   | 0.0    | 4341.8 |
|                    | % Fixture | 85.0     | 0.0    | 85.0   |
| <b>Total</b>       | Lumens    | 5105.0   | 0.0    | 5105.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 122.0  | 2.4       |
| 10°-20°   | 271.3  | 5.3       |
| 20°-30°   | 344.8  | 6.8       |
| 30°-40°   | 439.3  | 8.6       |
| 40°-50°   | 622.9  | 12.2      |
| 50°-60°   | 963.9  | 18.9      |
| 60°-70°   | 1312.3 | 25.7      |
| 70°-80°   | 875.4  | 17.1      |
| 80°-90°   | 153.1  | 3.0       |
| 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°    | 5105.0 | 100.0     |
| 0°-180°   | 5105.0 | 100.0     |

**Coefficient of Utilization**

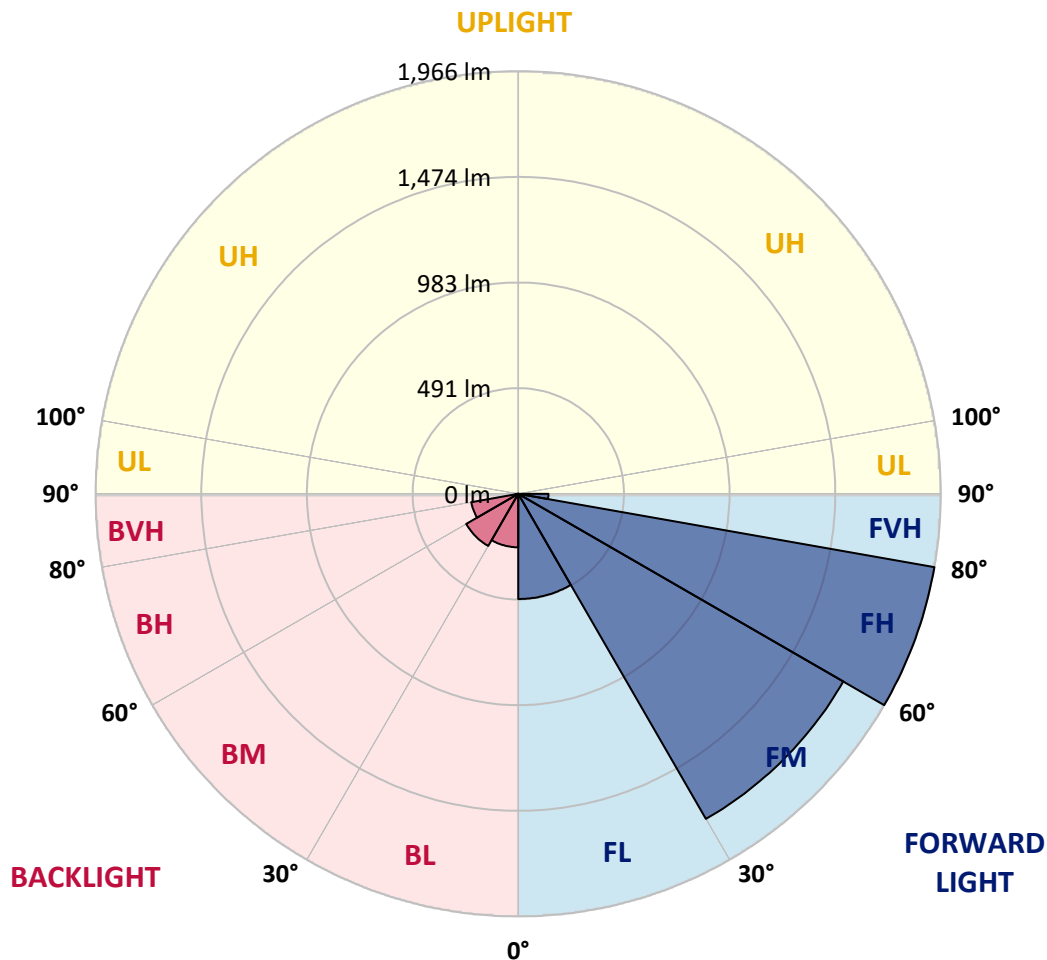


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 489.4  | 9.6       |                         |      |         |
| FM (30°-60°)   | 1746.2 | 34.2      |                         |      |         |
| FH (60°-80°)   | 1965.9 | 38.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 140.3  | 2.7       |                         |      | G2/225  |
| BL (0°-30°)    | 248.8  | 4.9       | B1/500                  |      |         |
| BM (30°-60°)   | 279.9  | 5.5       | B1/1000                 |      |         |
| BH (60°-80°)   | 221.8  | 4.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 12.7   | 0.2       |                         |      | 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°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1414.4 | 1414.4 | 1414.4 | 1414.4 | 1414.4 | 1414.4 | 1414.4 | 1414.4 | 1414.4 | 1414.4 | 1414.4 |
| 2.5°  | 1451.9 | 1450.0 | 1450.7 | 1449.3 | 1445.9 | 1442.5 | 1437.5 | 1438.4 | 1431.5 | 1421.2 | 1408.4 |
| 5°    | 1424.6 | 1423.9 | 1429.2 | 1432.2 | 1434.7 | 1432.7 | 1431.3 | 1433.1 | 1423.0 | 1408.7 | 1386.5 |
| 7.5°  | 1367.1 | 1359.3 | 1366.1 | 1376.2 | 1385.8 | 1393.1 | 1402.7 | 1403.9 | 1397.5 | 1382.6 | 1353.4 |
| 10°   | 1285.5 | 1278.0 | 1288.0 | 1303.8 | 1323.0 | 1340.5 | 1359.8 | 1363.4 | 1364.6 | 1351.1 | 1315.7 |
| 12.5° | 1200.9 | 1195.2 | 1205.1 | 1227.4 | 1259.2 | 1286.0 | 1317.0 | 1322.3 | 1333.3 | 1324.3 | 1280.9 |
| 15°   | 1125.1 | 1123.0 | 1135.1 | 1156.9 | 1193.6 | 1234.6 | 1279.3 | 1289.1 | 1307.7 | 1304.7 | 1253.7 |
| 17.5° | 1059.7 | 1059.1 | 1068.4 | 1091.3 | 1131.9 | 1183.8 | 1241.8 | 1258.3 | 1286.0 | 1289.6 | 1231.3 |
| 20°   | 1010.9 | 1009.9 | 1016.3 | 1033.2 | 1075.0 | 1133.8 | 1201.2 | 1224.0 | 1264.0 | 1276.4 | 1208.1 |
| 22.5° | 984.8  | 984.6  | 984.8  | 992.8  | 1026.9 | 1081.7 | 1161.7 | 1189.5 | 1242.5 | 1265.9 | 1182.5 |
| 25°   | 980.4  | 979.8  | 975.9  | 975.0  | 994.4  | 1038.1 | 1122.6 | 1153.2 | 1222.0 | 1258.7 | 1158.2 |
| 27.5° | 991.9  | 992.6  | 987.5  | 979.1  | 983.0  | 1009.5 | 1088.6 | 1121.4 | 1205.7 | 1257.2 | 1141.3 |
| 30°   | 1015.9 | 1015.6 | 1011.1 | 1002.4 | 994.8  | 998.8  | 1064.5 | 1097.2 | 1194.6 | 1263.5 | 1129.7 |
| 32.5° | 1042.4 | 1044.4 | 1043.5 | 1038.7 | 1027.3 | 1010.9 | 1057.2 | 1089.2 | 1191.4 | 1278.4 | 1124.7 |
| 35°   | 1074.2 | 1076.4 | 1082.8 | 1086.5 | 1073.2 | 1046.9 | 1072.8 | 1100.6 | 1200.7 | 1306.5 | 1132.8 |
| 37.5° | 1104.5 | 1110.0 | 1127.9 | 1143.8 | 1132.4 | 1103.1 | 1114.4 | 1134.2 | 1229.3 | 1350.8 | 1154.3 |
| 40°   | 1139.3 | 1144.1 | 1173.5 | 1207.1 | 1205.3 | 1174.9 | 1181.5 | 1194.6 | 1279.8 | 1414.2 | 1193.2 |
| 42.5° | 1173.7 | 1183.3 | 1225.8 | 1273.4 | 1287.1 | 1260.3 | 1270.7 | 1277.7 | 1350.9 | 1498.4 | 1261.1 |
| 45°   | 1219.4 | 1229.7 | 1288.7 | 1346.1 | 1378.1 | 1363.0 | 1379.8 | 1382.4 | 1440.4 | 1612.9 | 1359.8 |
| 47.5° | 1288.5 | 1300.3 | 1369.1 | 1429.4 | 1478.3 | 1479.9 | 1507.4 | 1506.4 | 1552.1 | 1743.9 | 1484.1 |
| 50°   | 1396.3 | 1413.2 | 1469.6 | 1525.9 | 1585.3 | 1618.4 | 1655.2 | 1650.0 | 1686.0 | 1883.5 | 1627.3 |
| 52.5° | 1537.5 | 1545.3 | 1587.1 | 1628.7 | 1702.5 | 1776.7 | 1829.5 | 1824.8 | 1837.8 | 2027.0 | 1789.8 |
| 55°   | 1683.8 | 1689.7 | 1706.9 | 1729.7 | 1828.9 | 1949.9 | 2061.5 | 2054.2 | 2021.3 | 2176.1 | 1950.4 |
| 57.5° | 1815.4 | 1827.3 | 1839.3 | 1848.7 | 1956.3 | 2130.9 | 2298.9 | 2299.5 | 2220.5 | 2336.8 | 2116.3 |
| 60°   | 1835.9 | 1846.4 | 1925.1 | 1999.5 | 2174.1 | 2372.4 | 2553.0 | 2547.7 | 2426.6 | 2511.3 | 2301.2 |
| 62.5° | 1622.8 | 1646.5 | 1778.1 | 1975.8 | 2383.9 | 2814.1 | 2877.2 | 2870.6 | 2673.1 | 2726.2 | 2516.6 |
| 65°   | 1163.0 | 1189.8 | 1348.6 | 1645.8 | 2282.2 | 3300.8 | 3462.3 | 3373.7 | 3009.2 | 2990.7 | 2768.7 |
| 67.5° | 670.9  | 677.3  | 746.2  | 984.8  | 1737.7 | 3326.2 | 4354.8 | 4230.8 | 3531.1 | 3290.7 | 2892.2 |
| 70°   | 496.1  | 496.0  | 512.3  | 606.0  | 940.3  | 2714.7 | 4779.2 | 4890.4 | 4080.6 | 3389.4 | 2717.7 |
| 71°   | 448.7  | 449.2  | 467.5  | 551.6  | 744.7  | 2272.3 | 4689.1 | 4932.4 | 4225.3 | 3340.6 | 2591.5 |
| 72.5° | 383.7  | 385.5  | 411.0  | 494.7  | 626.5  | 1567.0 | 4300.7 | 4680.6 | 4294.0 | 3220.4 | 2393.9 |
| 75°   | 291.1  | 295.2  | 330.4  | 417.0  | 572.6  | 794.7  | 3156.4 | 3737.5 | 3814.5 | 2841.7 | 1778.8 |
| 77.5° | 207.7  | 212.3  | 252.2  | 350.7  | 544.3  | 598.9  | 2113.8 | 2726.2 | 2807.2 | 1821.1 | 802.3  |
| 80°   | 131.2  | 136.7  | 166.8  | 279.0  | 511.4  | 568.7  | 1328.4 | 1832.5 | 1530.7 | 582.7  | 204.1  |
| 82.5° | 77.0   | 81.3   | 103.5  | 182.3  | 417.7  | 547.7  | 781.5  | 1015.7 | 595.7  | 176.0  | 92.8   |
| 85°   | 44.6   | 46.6   | 64.6   | 116.1  | 303.4  | 516.9  | 574.2  | 567.8  | 258.6  | 86.1   | 43.9   |
| 87.5° | 20.8   | 23.1   | 38.2   | 60.6   | 168.4  | 374.7  | 453.8  | 392.1  | 160.8  | 40.4   | 20.6   |
| 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°    | 1414.4 | 1414.4 | 1414.4 | 1414.4 | 1414.4 | 1414.4 | 1414.4 | 1414.4 | 1414.4 | 1414.4 | 1414.4 |
| 2.5°  | 1402.2 | 1399.1 | 1386.5 | 1375.3 | 1363.6 | 1348.3 | 1331.4 | 1329.2 | 1318.9 | 1320.9 | 1317.3 |
| 5°    | 1374.4 | 1366.8 | 1336.4 | 1308.8 | 1276.3 | 1247.1 | 1215.4 | 1200.9 | 1179.9 | 1178.5 | 1173.1 |
| 7.5°  | 1334.8 | 1320.5 | 1273.4 | 1221.1 | 1168.8 | 1119.1 | 1069.8 | 1037.4 | 1004.4 | 990.3  | 989.1  |
| 10°   | 1290.1 | 1265.9 | 1196.6 | 1119.2 | 1043.8 | 971.1  | 900.7  | 848.6  | 801.6  | 779.4  | 778.5  |
| 12.5° | 1247.8 | 1212.1 | 1116.9 | 1011.7 | 908.5  | 814.3  | 717.7  | 649.2  | 590.4  | 570.6  | 562.3  |
| 15°   | 1211.9 | 1161.6 | 1039.4 | 904.8  | 779.6  | 648.7  | 538.8  | 466.8  | 412.4  | 393.5  | 390.0  |
| 17.5° | 1177.0 | 1112.3 | 959.9  | 796.8  | 645.5  | 501.6  | 391.6  | 338.0  | 309.1  | 301.4  | 301.2  |
| 20°   | 1142.4 | 1061.6 | 876.9  | 686.4  | 515.9  | 375.2  | 301.1  | 277.1  | 267.3  | 266.4  | 265.0  |
| 22.5° | 1103.1 | 1007.9 | 789.5  | 575.6  | 402.6  | 295.0  | 255.9  | 246.3  | 245.0  | 248.2  | 248.2  |
| 25°   | 1066.2 | 954.6  | 701.0  | 467.1  | 313.2  | 246.1  | 228.5  | 226.6  | 229.9  | 235.6  | 236.2  |
| 27.5° | 1031.9 | 903.2  | 614.6  | 370.8  | 250.9  | 216.8  | 209.5  | 211.8  | 217.8  | 224.4  | 224.6  |
| 30°   | 1003.6 | 854.6  | 530.6  | 292.2  | 212.0  | 194.9  | 193.7  | 198.3  | 204.9  | 210.0  | 211.3  |
| 32.5° | 981.8  | 813.2  | 449.5  | 234.9  | 186.5  | 178.5  | 179.6  | 183.5  | 187.6  | 190.5  | 192.4  |
| 35°   | 971.6  | 777.6  | 374.7  | 198.1  | 170.4  | 165.9  | 167.3  | 169.5  | 171.2  | 173.4  | 175.0  |
| 37.5° | 973.4  | 750.1  | 307.8  | 175.2  | 159.5  | 157.2  | 157.2  | 157.2  | 157.2  | 158.3  | 158.4  |
| 40°   | 990.0  | 734.2  | 253.4  | 160.6  | 152.2  | 149.7  | 147.8  | 146.0  | 144.6  | 145.3  | 144.9  |
| 42.5° | 1032.3 | 732.8  | 213.6  | 151.3  | 146.4  | 142.3  | 138.3  | 135.9  | 134.1  | 134.8  | 135.1  |
| 45°   | 1104.1 | 750.6  | 186.7  | 144.8  | 140.8  | 134.6  | 129.6  | 127.0  | 125.7  | 128.0  | 128.4  |
| 47.5° | 1197.1 | 789.4  | 170.4  | 139.9  | 135.7  | 127.5  | 122.2  | 119.7  | 120.0  | 123.4  | 124.3  |
| 50°   | 1317.0 | 852.3  | 162.5  | 136.9  | 132.1  | 121.5  | 115.9  | 113.8  | 114.9  | 119.7  | 120.7  |
| 52.5° | 1448.6 | 943.0  | 163.4  | 136.0  | 129.8  | 117.0  | 111.1  | 108.7  | 110.4  | 114.9  | 115.8  |
| 55°   | 1600.4 | 1052.0 | 178.2  | 137.3  | 126.4  | 114.2  | 107.2  | 103.0  | 104.4  | 108.5  | 109.2  |
| 57.5° | 1769.2 | 1176.9 | 207.9  | 136.9  | 122.2  | 111.5  | 103.1  | 96.7   | 97.8   | 100.3  | 101.0  |
| 60°   | 1944.9 | 1327.6 | 253.9  | 138.0  | 120.2  | 108.3  | 97.6   | 89.6   | 89.3   | 91.4   | 91.8   |
| 62.5° | 2155.8 | 1502.1 | 306.6  | 138.7  | 121.5  | 104.2  | 90.3   | 82.5   | 81.4   | 82.0   | 82.3   |
| 65°   | 2373.1 | 1628.4 | 286.8  | 135.9  | 125.4  | 100.8  | 83.9   | 75.6   | 73.6   | 73.3   | 73.4   |
| 67.5° | 2379.8 | 1493.0 | 201.1  | 130.2  | 127.0  | 99.0   | 79.1   | 69.7   | 66.5   | 65.3   | 65.1   |
| 70°   | 2134.3 | 1212.9 | 156.7  | 124.1  | 120.6  | 96.2   | 74.7   | 64.9   | 60.1   | 58.1   | 58.0   |
| 71°   | 2014.4 | 1116.6 | 148.5  | 121.1  | 115.8  | 93.4   | 72.7   | 62.8   | 57.8   | 55.7   | 55.3   |
| 72.5° | 1826.4 | 1001.0 | 138.5  | 116.3  | 106.5  | 86.1   | 69.0   | 59.7   | 54.6   | 52.1   | 51.6   |
| 75°   | 1310.8 | 654.6  | 119.0  | 103.7  | 88.2   | 68.6   | 60.5   | 53.7   | 49.3   | 46.2   | 45.9   |
| 77.5° | 505.0  | 260.5  | 90.0   | 86.2   | 67.6   | 53.7   | 49.8   | 46.4   | 43.2   | 40.2   | 40.0   |
| 80°   | 156.1  | 116.5  | 65.6   | 64.9   | 48.9   | 40.0   | 38.8   | 37.9   | 36.6   | 33.4   | 32.7   |
| 82.5° | 83.4   | 66.9   | 45.2   | 42.0   | 32.0   | 26.7   | 28.1   | 28.5   | 28.6   | 25.3   | 24.9   |
| 85°   | 39.8   | 35.4   | 25.4   | 23.8   | 18.7   | 14.9   | 17.2   | 18.7   | 18.8   | 15.5   | 14.4   |
| 87.5° | 19.0   | 18.5   | 11.9   | 9.1    | 6.9    | 5.0    | 6.0    | 7.5    | 8.2    | 5.9    | 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)