

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: P385854

Luminaire Tested: GAW-SA1C-722-U-SL3-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385854  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1C-722-U-SL3-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2200K, 1050mA LIGHTSQUARE WITH 16 LEDS 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: 4744 lumens  
Efficiency: N/A  
Efficacy: 81.8 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

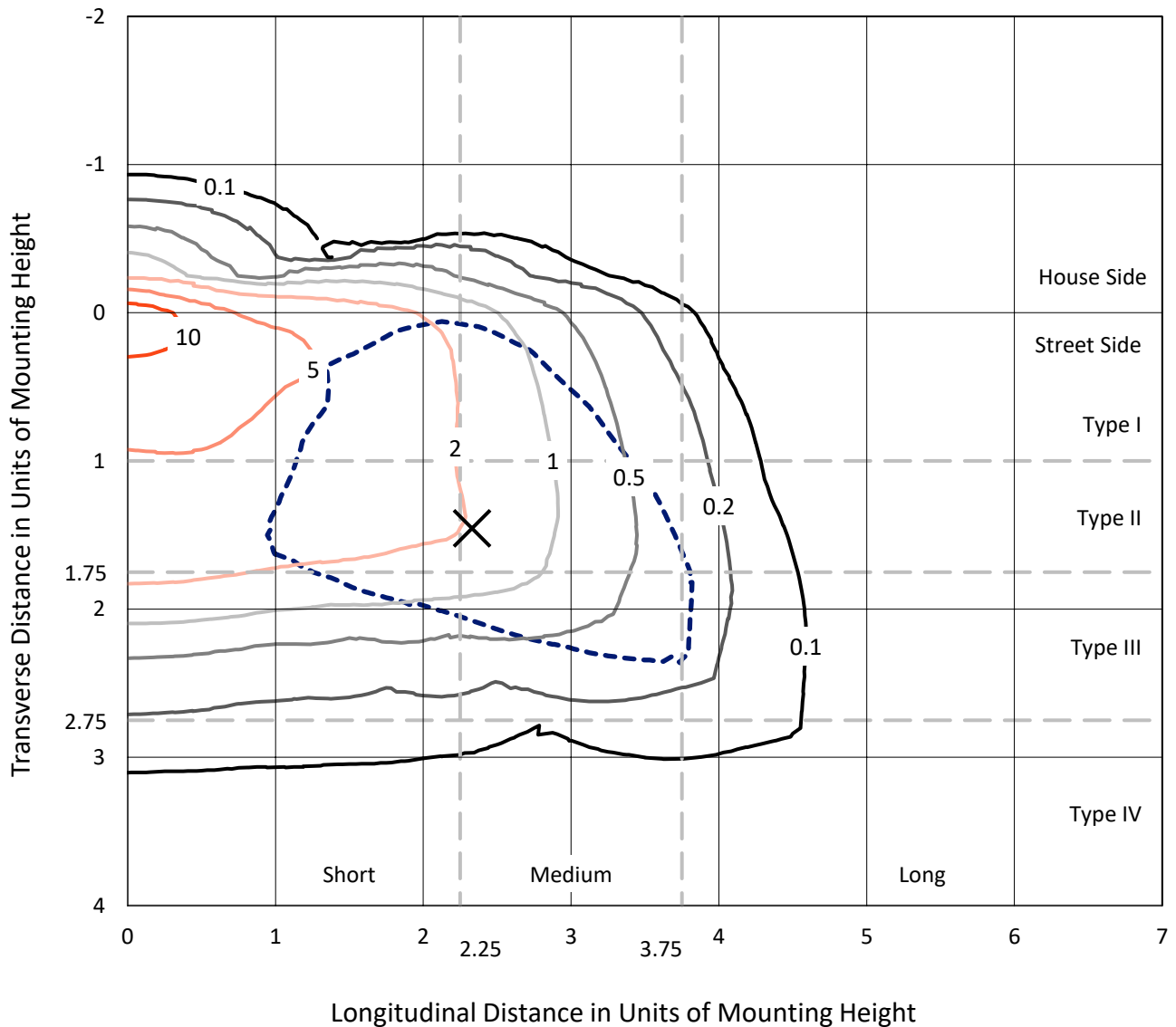
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

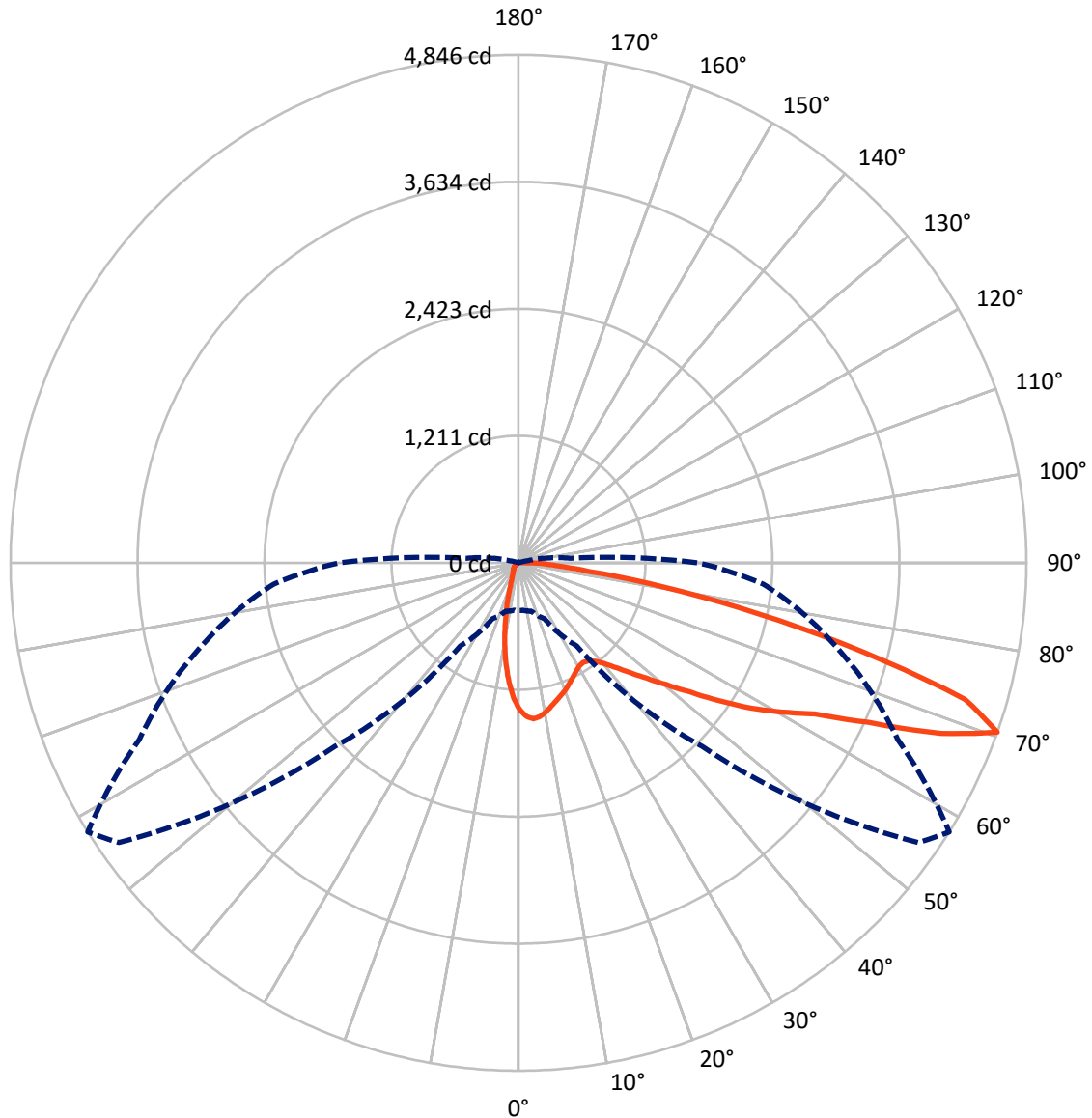
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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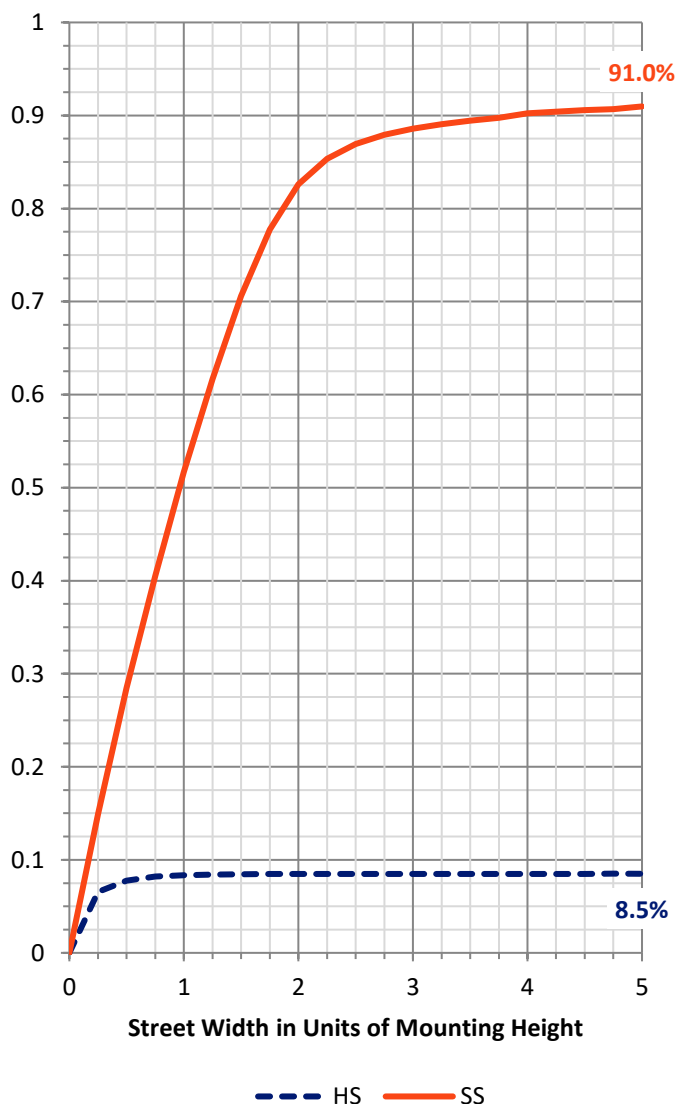
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 406.0    | 0.0    | 406.0  |
|                    | % Fixture | 8.6      | 0.0    | 8.6    |
| <b>Street Side</b> | Lumens    | 4338.0   | 0.0    | 4338.0 |
|                    | % Fixture | 91.4     | 0.0    | 91.4   |
| <b>Total</b>       | Lumens    | 4744.0   | 0.0    | 4744.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 114.6  | 2.4       |
| 10°-20°   | 240.5  | 5.1       |
| 20°-30°   | 316.2  | 6.7       |
| 30°-40°   | 418.8  | 8.8       |
| 40°-50°   | 625.9  | 13.2      |
| 50°-60°   | 1002.7 | 21.1      |
| 60°-70°   | 1263.9 | 26.6      |
| 70°-80°   | 681.7  | 14.4      |
| 80°-90°   | 79.8   | 1.7       |
| 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°    | 4744.0 | 100.0     |
| 0°-180°   | 4744.0 | 100.0     |

**Coefficient of Utilization**

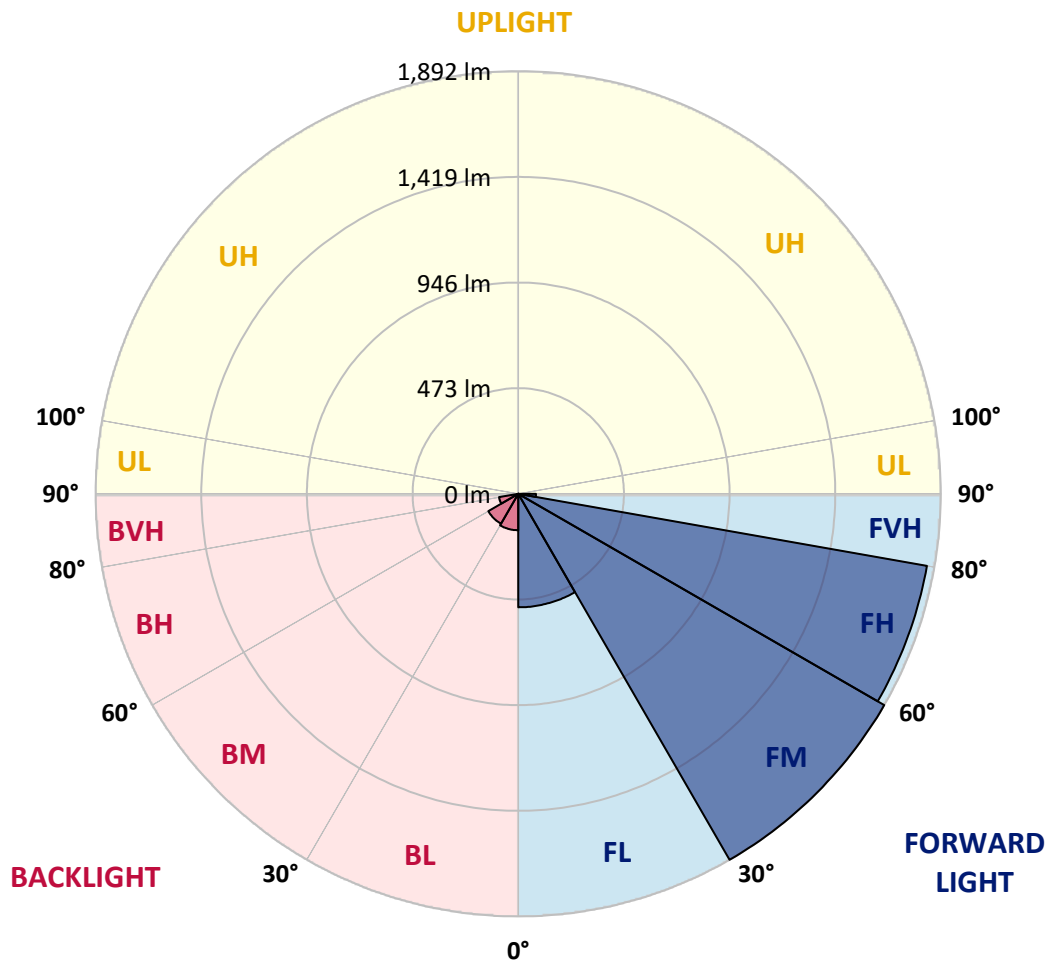


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 508.2  | 10.7      |                         |      |         |
| FM (30°-60°)   | 1892.5 | 39.9      |                         |      |         |
| FH (60°-80°)   | 1858.3 | 39.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 79.1   | 1.7       |                         |      | G1/100  |
| BL (0°-30°)    | 163.1  | 3.4       | B1/500                  |      |         |
| BM (30°-60°)   | 154.9  | 3.3       | B0/220                  |      |         |
| BH (60°-80°)   | 87.3   | 1.8       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.7    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: 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°    | 1401.4 | 1401.4 | 1401.4 | 1401.4 | 1401.4 | 1401.4 | 1401.4 | 1401.4 | 1401.4 | 1401.4 | 1401.4 |
| 2.5°  | 1517.5 | 1513.8 | 1512.4 | 1510.0 | 1501.0 | 1492.1 | 1474.5 | 1469.6 | 1458.6 | 1432.3 | 1404.5 |
| 5°    | 1518.7 | 1518.5 | 1522.7 | 1521.7 | 1518.5 | 1514.4 | 1501.8 | 1495.3 | 1476.5 | 1439.0 | 1388.1 |
| 7.5°  | 1445.5 | 1449.3 | 1458.6 | 1466.1 | 1474.7 | 1486.0 | 1487.6 | 1481.2 | 1465.9 | 1425.4 | 1358.0 |
| 10°   | 1347.3 | 1353.2 | 1366.2 | 1381.0 | 1403.7 | 1426.2 | 1446.3 | 1445.5 | 1440.2 | 1400.4 | 1321.7 |
| 12.5° | 1248.9 | 1255.8 | 1270.8 | 1292.7 | 1324.8 | 1361.5 | 1397.4 | 1402.3 | 1411.2 | 1377.9 | 1288.1 |
| 15°   | 1162.7 | 1168.6 | 1183.4 | 1210.2 | 1250.1 | 1299.4 | 1352.0 | 1361.1 | 1384.0 | 1360.3 | 1260.1 |
| 17.5° | 1089.5 | 1093.2 | 1104.1 | 1133.9 | 1180.0 | 1239.8 | 1308.2 | 1326.0 | 1360.1 | 1346.5 | 1235.9 |
| 20°   | 1038.4 | 1039.0 | 1046.1 | 1067.0 | 1113.2 | 1180.0 | 1262.9 | 1288.3 | 1334.9 | 1334.7 | 1210.8 |
| 22.5° | 1013.1 | 1011.2 | 1012.6 | 1024.6 | 1058.5 | 1123.0 | 1217.5 | 1247.7 | 1312.2 | 1324.6 | 1185.4 |
| 25°   | 1008.4 | 1006.8 | 1002.9 | 1004.5 | 1025.0 | 1073.1 | 1171.7 | 1206.7 | 1292.3 | 1318.5 | 1163.3 |
| 27.5° | 1023.2 | 1024.8 | 1018.1 | 1011.0 | 1012.6 | 1040.8 | 1131.1 | 1171.5 | 1276.1 | 1318.5 | 1147.7 |
| 30°   | 1053.0 | 1053.8 | 1048.8 | 1039.6 | 1027.1 | 1031.7 | 1102.9 | 1143.3 | 1268.0 | 1327.6 | 1137.8 |
| 32.5° | 1085.9 | 1090.3 | 1089.7 | 1082.2 | 1064.4 | 1046.1 | 1096.2 | 1133.1 | 1267.4 | 1347.7 | 1136.8 |
| 35°   | 1126.8 | 1131.7 | 1140.0 | 1138.4 | 1119.9 | 1089.7 | 1119.1 | 1148.1 | 1279.1 | 1380.8 | 1147.5 |
| 37.5° | 1170.2 | 1177.7 | 1195.4 | 1203.9 | 1191.9 | 1157.7 | 1170.4 | 1191.1 | 1310.2 | 1434.5 | 1174.5 |
| 40°   | 1212.2 | 1220.7 | 1253.0 | 1286.4 | 1277.3 | 1242.2 | 1248.1 | 1264.7 | 1365.7 | 1511.6 | 1225.8 |
| 42.5° | 1253.4 | 1266.0 | 1313.6 | 1368.4 | 1379.3 | 1351.3 | 1354.4 | 1367.6 | 1447.9 | 1617.8 | 1309.6 |
| 45°   | 1302.7 | 1316.9 | 1387.3 | 1455.0 | 1484.0 | 1471.8 | 1485.2 | 1493.9 | 1555.4 | 1758.0 | 1422.7 |
| 47.5° | 1375.1 | 1391.5 | 1477.9 | 1555.0 | 1605.9 | 1613.8 | 1640.8 | 1646.6 | 1691.3 | 1921.3 | 1570.0 |
| 50°   | 1516.4 | 1520.9 | 1599.0 | 1669.0 | 1742.4 | 1789.8 | 1820.5 | 1824.9 | 1855.8 | 2099.9 | 1754.1 |
| 52.5° | 1694.1 | 1697.1 | 1741.2 | 1788.2 | 1871.6 | 1968.3 | 2040.3 | 2046.4 | 2052.9 | 2273.8 | 1935.7 |
| 55°   | 1870.6 | 1870.2 | 1899.4 | 1927.1 | 2022.5 | 2163.0 | 2319.2 | 2323.0 | 2276.2 | 2439.0 | 2074.6 |
| 57.5° | 1980.9 | 1991.6 | 2035.9 | 2071.5 | 2204.8 | 2384.9 | 2601.7 | 2615.5 | 2510.8 | 2561.3 | 2211.9 |
| 60°   | 1945.8 | 1950.9 | 2049.4 | 2180.7 | 2431.9 | 2700.3 | 2887.5 | 2891.1 | 2687.1 | 2683.4 | 2385.5 |
| 62.5° | 1657.8 | 1660.6 | 1815.2 | 2086.1 | 2546.9 | 3109.5 | 3232.3 | 3174.6 | 2889.9 | 2852.8 | 2593.2 |
| 65°   | 1136.2 | 1154.2 | 1283.4 | 1618.1 | 2335.6 | 3366.1 | 3766.1 | 3670.5 | 3199.0 | 3097.0 | 2781.0 |
| 67.5° | 669.1  | 665.4  | 729.3  | 975.9  | 1715.4 | 3195.7 | 4441.4 | 4346.3 | 3620.6 | 3260.6 | 2726.0 |
| 70°   | 457.1  | 454.5  | 479.0  | 590.8  | 968.4  | 2479.0 | 4653.8 | 4845.8 | 3992.8 | 3150.5 | 2346.0 |
| 72.5° | 326.3  | 327.7  | 363.8  | 459.0  | 608.0  | 1444.4 | 4002.1 | 4456.4 | 3876.2 | 2746.5 | 1783.3 |
| 75°   | 221.5  | 225.3  | 277.0  | 376.6  | 533.0  | 734.8  | 2840.0 | 3387.6 | 3156.4 | 1996.1 | 1025.0 |
| 77.5° | 119.1  | 123.3  | 184.2  | 303.4  | 481.9  | 510.5  | 1826.9 | 2331.4 | 1982.7 | 897.3  | 297.1  |
| 80°   | 49.7   | 52.1   | 86.2   | 220.5  | 416.4  | 448.4  | 1074.9 | 1413.8 | 844.9  | 176.9  | 66.3   |
| 82.5° | 21.5   | 22.7   | 35.9   | 131.6  | 311.3  | 378.5  | 569.1  | 680.2  | 256.0  | 38.9   | 33.3   |
| 85°   | 4.1    | 4.3    | 14.8   | 69.6   | 198.6  | 213.6  | 368.9  | 361.6  | 115.0  | 16.8   | 24.3   |
| 87.5° | 0.0    | 0.0    | 3.6    | 21.9   | 58.4   | 116.4  | 225.1  | 222.3  | 39.1   | 8.1    | 9.1    |
| 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°    | 1401.4 | 1401.4 | 1401.4 | 1401.4 | 1401.4 | 1401.4 | 1401.4 | 1401.4 | 1401.4 | 1401.4 | 1401.4 |
| 2.5°  | 1390.3 | 1376.7 | 1348.1 | 1312.8 | 1285.8 | 1256.0 | 1232.3 | 1202.3 | 1189.3 | 1189.9 | 1182.8 |
| 5°    | 1359.1 | 1331.1 | 1267.8 | 1187.9 | 1126.4 | 1062.9 | 1008.2 | 953.8  | 921.6  | 911.2  | 901.3  |
| 7.5°  | 1314.6 | 1270.2 | 1169.2 | 1046.1 | 941.9  | 840.1  | 751.6  | 673.7  | 624.3  | 600.3  | 591.4  |
| 10°   | 1264.3 | 1201.9 | 1055.8 | 893.6  | 744.9  | 607.2  | 492.4  | 392.6  | 352.7  | 325.7  | 318.8  |
| 12.5° | 1220.1 | 1135.6 | 944.9  | 737.2  | 560.6  | 394.5  | 285.0  | 222.9  | 195.9  | 185.2  | 183.5  |
| 15°   | 1178.4 | 1073.7 | 838.2  | 595.5  | 388.2  | 242.8  | 181.3  | 160.2  | 153.9  | 152.1  | 152.1  |
| 17.5° | 1139.2 | 1014.7 | 733.8  | 456.1  | 256.8  | 170.2  | 150.1  | 145.4  | 143.4  | 143.2  | 143.4  |
| 20°   | 1098.2 | 955.7  | 631.2  | 334.2  | 179.3  | 144.2  | 138.7  | 136.1  | 135.5  | 135.5  | 135.5  |
| 22.5° | 1058.9 | 896.8  | 531.4  | 238.7  | 143.8  | 131.6  | 128.8  | 127.0  | 126.4  | 126.2  | 125.9  |
| 25°   | 1021.2 | 840.7  | 434.0  | 168.7  | 126.2  | 120.5  | 118.2  | 115.8  | 114.0  | 113.0  | 112.4  |
| 27.5° | 990.3  | 790.8  | 343.2  | 135.3  | 114.0  | 109.1  | 106.1  | 102.6  | 98.2   | 96.3   | 95.5   |
| 30°   | 965.6  | 745.3  | 264.5  | 114.2  | 102.6  | 97.6   | 93.1   | 87.0   | 80.7   | 77.3   | 77.1   |
| 32.5° | 946.3  | 700.5  | 200.8  | 101.0  | 92.3   | 86.2   | 79.7   | 72.0   | 64.7   | 61.0   | 60.8   |
| 35°   | 936.8  | 661.0  | 153.5  | 91.3   | 83.2   | 75.6   | 67.5   | 59.0   | 51.9   | 48.3   | 47.9   |
| 37.5° | 943.1  | 627.7  | 119.7  | 83.2   | 75.6   | 66.7   | 57.2   | 48.3   | 42.0   | 38.9   | 38.7   |
| 40°   | 966.2  | 606.4  | 97.3   | 76.3   | 69.0   | 58.2   | 47.9   | 39.6   | 34.3   | 31.8   | 31.6   |
| 42.5° | 1015.3 | 598.5  | 83.0   | 70.6   | 62.7   | 50.3   | 39.8   | 32.7   | 27.8   | 26.0   | 25.6   |
| 45°   | 1097.4 | 610.1  | 73.4   | 65.1   | 56.2   | 42.8   | 32.9   | 26.8   | 22.5   | 21.1   | 20.9   |
| 47.5° | 1206.7 | 640.7  | 66.5   | 59.8   | 50.3   | 36.1   | 27.4   | 21.7   | 18.3   | 17.0   | 16.8   |
| 50°   | 1347.5 | 689.2  | 60.8   | 54.4   | 44.8   | 30.6   | 22.7   | 17.2   | 14.2   | 13.2   | 13.2   |
| 52.5° | 1500.8 | 747.0  | 55.6   | 49.5   | 39.3   | 25.4   | 18.3   | 13.2   | 11.2   | 10.1   | 10.1   |
| 55°   | 1627.4 | 797.5  | 50.1   | 45.8   | 32.5   | 21.1   | 14.0   | 10.1   | 8.3    | 7.7    | 7.7    |
| 57.5° | 1753.9 | 851.4  | 43.8   | 39.3   | 26.0   | 17.2   | 10.7   | 7.5    | 6.1    | 5.7    | 5.7    |
| 60°   | 1917.8 | 917.3  | 37.7   | 32.0   | 20.5   | 13.0   | 7.9    | 5.3    | 4.5    | 4.3    | 4.3    |
| 62.5° | 2098.1 | 955.9  | 32.2   | 25.6   | 16.0   | 9.7    | 5.7    | 3.6    | 3.4    | 3.4    | 3.2    |
| 65°   | 2208.4 | 901.3  | 27.0   | 20.5   | 12.4   | 7.3    | 3.7    | 2.6    | 3.0    | 2.8    | 2.4    |
| 67.5° | 2067.7 | 705.6  | 22.1   | 16.0   | 9.7    | 5.5    | 2.4    | 1.8    | 3.2    | 2.6    | 2.0    |
| 70°   | 1712.0 | 493.9  | 17.2   | 11.2   | 7.7    | 4.7    | 1.6    | 1.2    | 3.4    | 2.6    | 1.6    |
| 72.5° | 1281.2 | 330.6  | 13.6   | 7.5    | 5.7    | 4.1    | 1.4    | 0.6    | 3.0    | 2.2    | 1.4    |
| 75°   | 700.1  | 133.2  | 10.8   | 4.7    | 3.6    | 3.0    | 1.0    | 0.4    | 2.0    | 1.6    | 1.0    |
| 77.5° | 184.2  | 35.1   | 7.9    | 3.2    | 2.0    | 1.2    | 0.6    | 0.2    | 1.0    | 0.8    | 0.4    |
| 80°   | 46.9   | 13.6   | 5.1    | 2.2    | 1.4    | 0.6    | 0.0    | 0.0    | 0.2    | 0.0    | 0.0    |
| 82.5° | 25.1   | 5.7    | 3.2    | 1.6    | 0.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 18.9   | 3.7    | 1.8    | 1.0    | 0.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 7.3    | 1.2    | 0.6    | 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)