

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: P386657

Luminaire Tested: GAW-SA2B-750-U-T4W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386657  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2B-750-U-T4W  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11842 lumens  
Efficiency: N/A  
Efficacy: 137.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

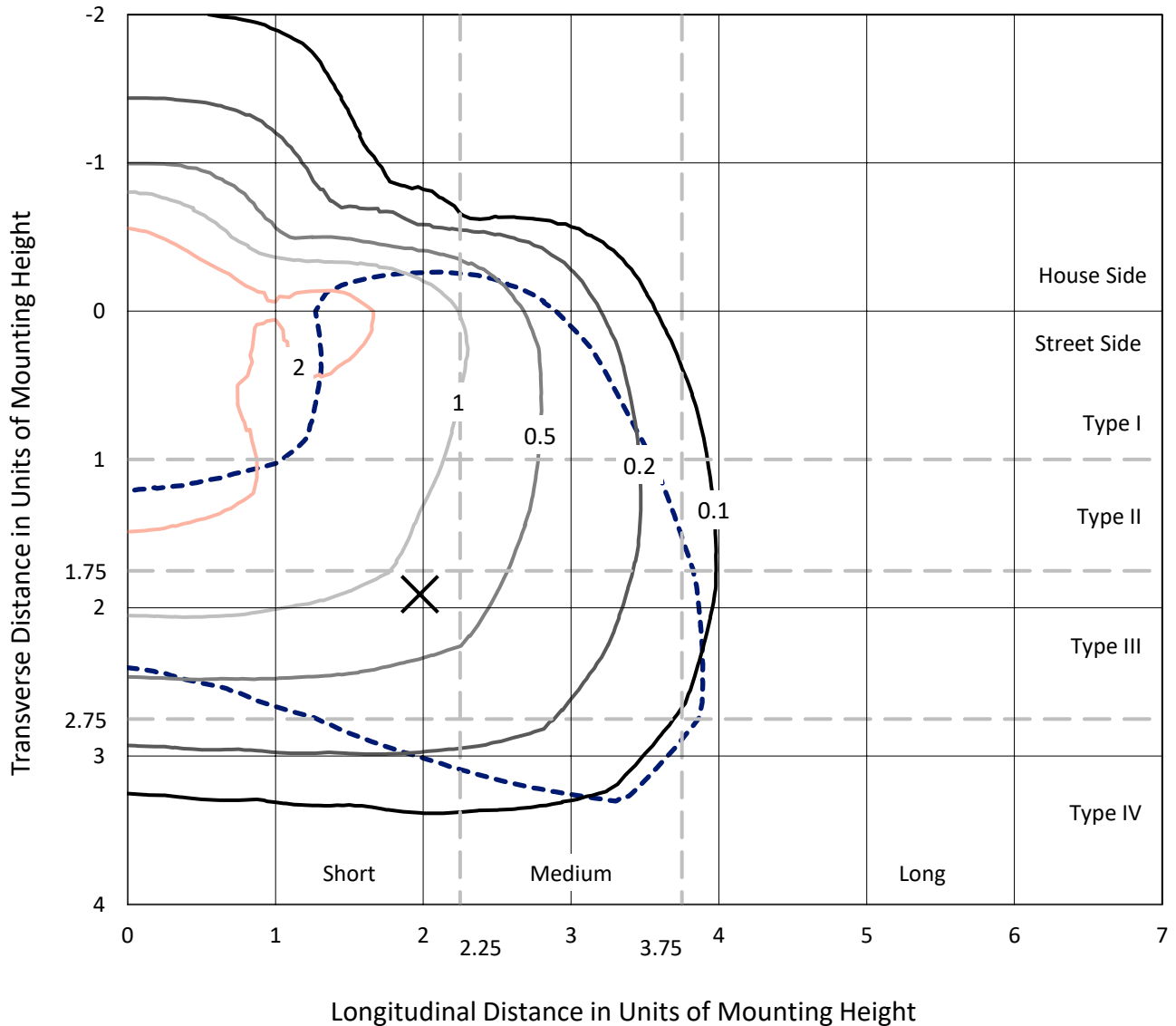
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

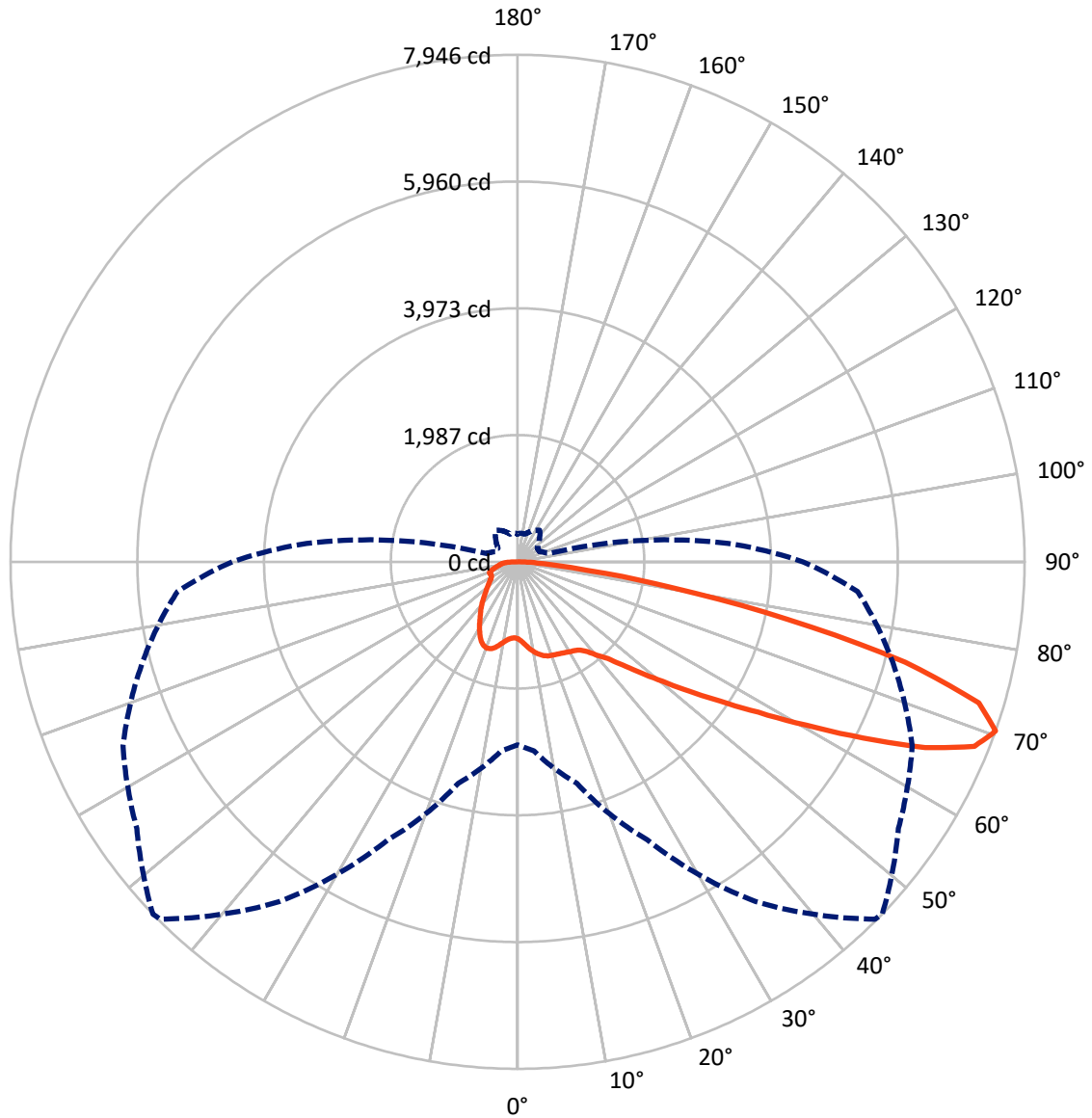
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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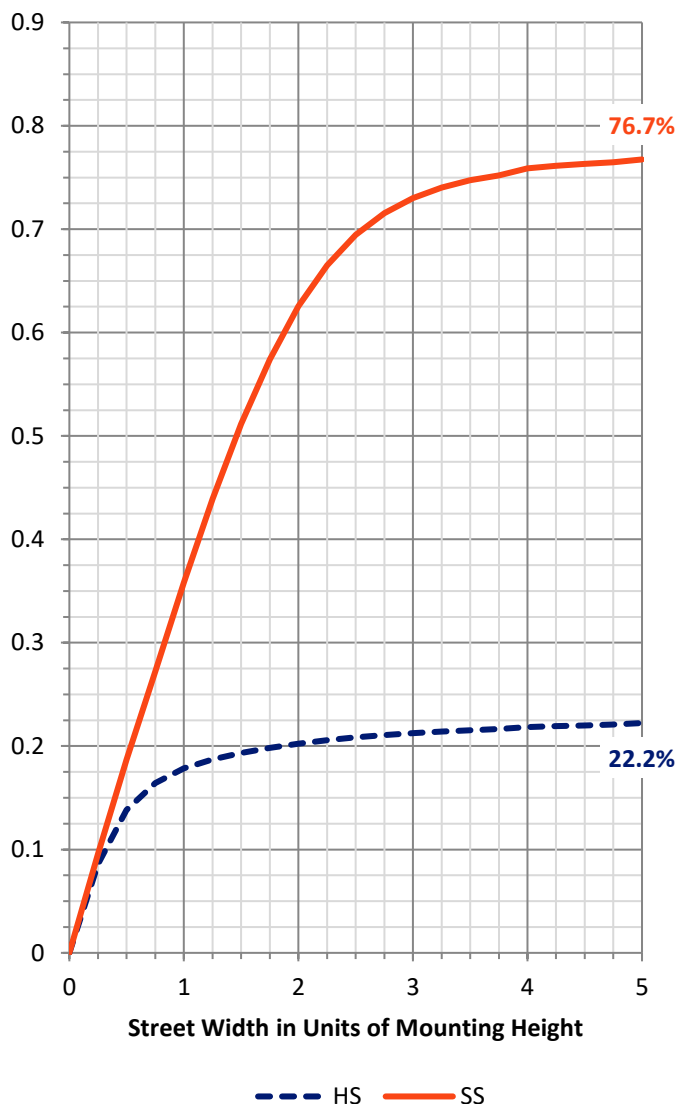
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2714.2   | 0.0    | 2714.2  |
|                    | % Fixture | 22.9     | 0.0    | 22.9    |
| <b>Street Side</b> | Lumens    | 9127.8   | 0.0    | 9127.8  |
|                    | % Fixture | 77.1     | 0.0    | 77.1    |
| <b>Total</b>       | Lumens    | 11842.0  | 0.0    | 11842.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 123.0   | 1.0       |
| 10°-20°   | 409.8   | 3.5       |
| 20°-30°   | 683.2   | 5.8       |
| 30°-40°   | 969.6   | 8.2       |
| 40°-50°   | 1426.2  | 12.0      |
| 50°-60°   | 2415.2  | 20.4      |
| 60°-70°   | 3428.4  | 29.0      |
| 70°-80°   | 2082.8  | 17.6      |
| 80°-90°   | 303.9   | 2.6       |
| 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°    | 11842.0 | 100.0     |
| 0°-180°   | 11842.0 | 100.0     |

**Coefficient of Utilization**



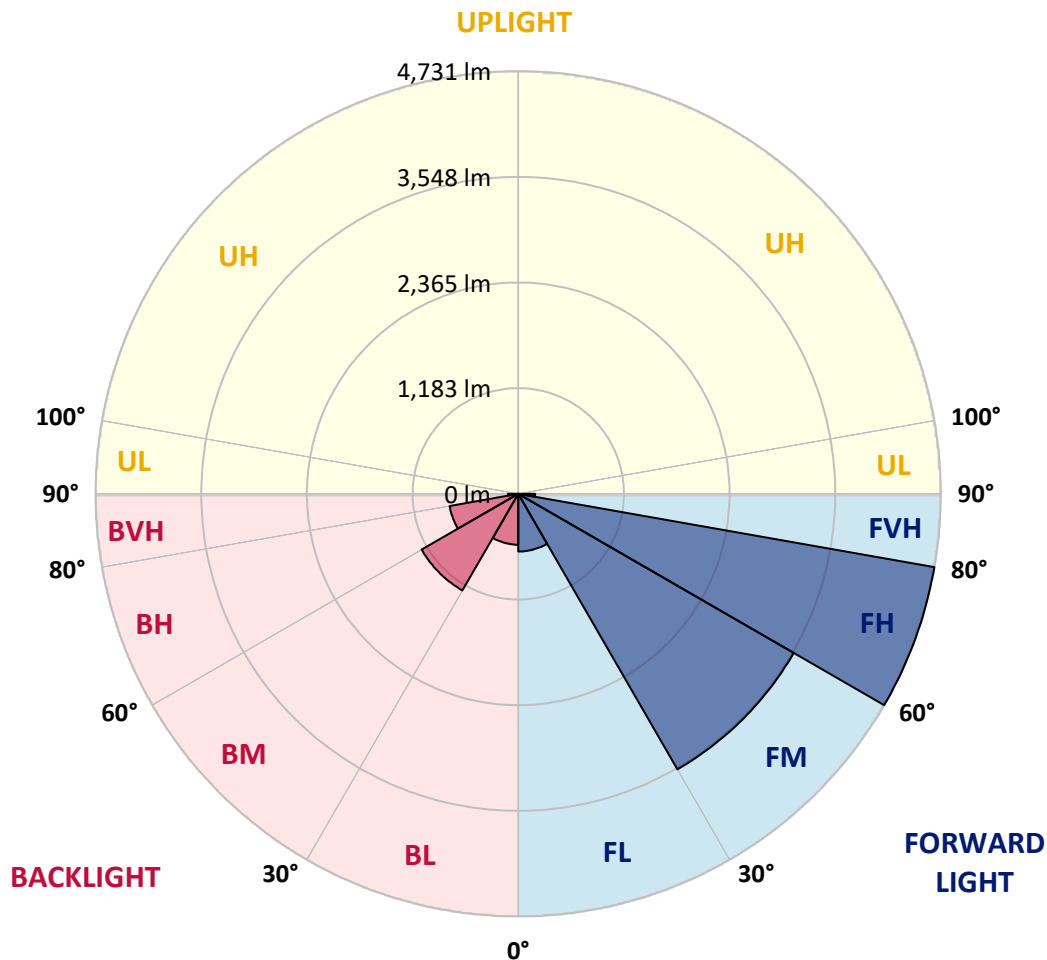
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 646.2  | 5.5       |                         |      |         |
| FM (30°-60°)   | 3561.5 | 30.1      |                         |      |         |
| FH (60°-80°)   | 4730.8 | 39.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 189.3  | 1.6       |                         |      | G2/225  |
| BL (0°-30°)    | 569.8  | 4.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 1249.4 | 10.6      | B2/2500                 |      |         |
| BH (60°-80°)   | 780.3  | 6.6       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 114.6  | 1.0       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 46°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1206.5 | 1206.5 | 1206.5 | 1206.5 | 1206.5 | 1206.5 | 1206.5 | 1206.5 | 1206.5 | 1206.5 | 1206.5 |
| 2.5°  | 1266.9 | 1267.7 | 1269.3 | 1265.2 | 1253.9 | 1250.6 | 1249.4 | 1237.7 | 1230.0 | 1218.6 | 1208.9 |
| 5°    | 1368.2 | 1369.0 | 1366.5 | 1355.2 | 1330.1 | 1311.4 | 1309.8 | 1283.1 | 1258.7 | 1232.8 | 1213.4 |
| 7.5°  | 1473.9 | 1475.2 | 1467.5 | 1446.0 | 1410.7 | 1378.3 | 1376.3 | 1339.8 | 1302.9 | 1263.6 | 1234.4 |
| 10°   | 1567.6 | 1562.7 | 1550.1 | 1520.1 | 1478.4 | 1438.7 | 1437.1 | 1399.0 | 1356.4 | 1309.0 | 1270.1 |
| 12.5° | 1630.0 | 1625.9 | 1609.7 | 1573.2 | 1527.4 | 1491.0 | 1487.7 | 1452.5 | 1411.1 | 1359.3 | 1312.6 |
| 15°   | 1664.4 | 1667.3 | 1645.4 | 1604.0 | 1559.5 | 1528.7 | 1525.8 | 1500.7 | 1463.8 | 1411.5 | 1358.0 |
| 17.5° | 1668.9 | 1671.3 | 1650.2 | 1609.3 | 1572.8 | 1551.8 | 1550.5 | 1533.9 | 1507.2 | 1456.9 | 1401.0 |
| 20°   | 1642.9 | 1644.6 | 1627.1 | 1593.5 | 1569.6 | 1563.1 | 1562.7 | 1555.4 | 1535.5 | 1491.0 | 1436.7 |
| 22.5° | 1605.2 | 1606.5 | 1593.9 | 1569.6 | 1561.5 | 1571.6 | 1574.4 | 1571.6 | 1557.4 | 1515.7 | 1464.6 |
| 25°   | 1595.9 | 1595.1 | 1582.1 | 1557.4 | 1564.3 | 1585.8 | 1589.4 | 1590.7 | 1580.9 | 1544.5 | 1500.3 |
| 27.5° | 1640.9 | 1638.1 | 1613.4 | 1573.6 | 1578.1 | 1604.0 | 1608.9 | 1620.6 | 1614.6 | 1582.6 | 1540.8 |
| 30°   | 1771.0 | 1766.1 | 1715.5 | 1635.2 | 1613.4 | 1626.7 | 1632.8 | 1651.4 | 1652.7 | 1625.9 | 1594.7 |
| 32.5° | 1990.7 | 1984.6 | 1893.8 | 1750.3 | 1672.9 | 1649.8 | 1655.5 | 1683.5 | 1698.5 | 1677.8 | 1644.2 |
| 35°   | 2268.3 | 2261.4 | 2142.2 | 1946.1 | 1772.6 | 1694.0 | 1698.1 | 1720.3 | 1750.3 | 1721.2 | 1676.6 |
| 37.5° | 2557.6 | 2541.0 | 2426.3 | 2176.3 | 1931.1 | 1788.4 | 1788.4 | 1791.3 | 1805.4 | 1744.7 | 1714.7 |
| 40°   | 2845.4 | 2828.7 | 2725.0 | 2447.0 | 2136.1 | 1937.2 | 1927.8 | 1865.0 | 1853.7 | 1801.4 | 1791.3 |
| 42.5° | 3112.8 | 3108.0 | 3046.8 | 2753.0 | 2376.9 | 2083.5 | 2070.5 | 1963.9 | 1966.3 | 1933.9 | 1934.3 |
| 45°   | 3397.3 | 3397.3 | 3347.5 | 3061.8 | 2657.3 | 2318.5 | 2305.5 | 2148.7 | 2173.0 | 2158.0 | 2194.1 |
| 47.5° | 3629.5 | 3636.8 | 3629.9 | 3383.5 | 2983.5 | 2617.2 | 2593.7 | 2404.8 | 2472.9 | 2524.4 | 2629.3 |
| 50°   | 3866.6 | 3878.0 | 3879.2 | 3736.5 | 3377.9 | 2972.2 | 2945.5 | 2744.8 | 2896.8 | 3044.3 | 3250.6 |
| 52.5° | 4210.7 | 4236.2 | 4134.5 | 4088.7 | 3860.9 | 3393.7 | 3367.3 | 3182.1 | 3435.8 | 3642.9 | 3998.3 |
| 55°   | 4529.6 | 4507.3 | 4434.8 | 4463.2 | 4378.1 | 3873.5 | 3853.6 | 3691.1 | 4036.4 | 4305.5 | 4767.1 |
| 57.5° | 4702.3 | 4700.6 | 4773.6 | 4895.2 | 4935.7 | 4465.2 | 4448.6 | 4290.5 | 4713.6 | 4915.8 | 5488.9 |
| 60°   | 4904.9 | 4907.7 | 5088.5 | 5364.5 | 5531.4 | 5202.0 | 5194.7 | 5074.7 | 5371.4 | 5485.6 | 6055.0 |
| 62.5° | 4933.3 | 4984.3 | 5295.6 | 5770.5 | 6089.1 | 6062.7 | 6078.9 | 5781.1 | 5959.8 | 5940.3 | 6477.7 |
| 65°   | 4607.0 | 4674.3 | 5237.6 | 5893.3 | 6643.5 | 7004.2 | 7019.2 | 6491.5 | 6423.8 | 6329.0 | 6628.9 |
| 67.5° | 3938.3 | 4038.0 | 4650.0 | 5626.3 | 6826.3 | 7700.0 | 7721.1 | 7042.3 | 6808.8 | 6460.7 | 6265.0 |
| 70°   | 2866.0 | 2976.7 | 3592.7 | 4805.2 | 6500.4 | 7922.5 | 7946.4 | 7285.8 | 6823.4 | 6085.8 | 5348.3 |
| 72.5° | 1731.3 | 1818.0 | 2325.8 | 3537.5 | 5486.5 | 7517.2 | 7559.8 | 6977.0 | 6229.7 | 5154.9 | 3949.3 |
| 75°   | 760.3  | 817.0  | 1124.6 | 2038.5 | 3927.8 | 6219.6 | 6272.7 | 5972.0 | 5061.7 | 3746.3 | 2334.3 |
| 77.5° | 323.8  | 340.0  | 461.2  | 885.5  | 2220.4 | 4250.0 | 4322.9 | 4363.5 | 3434.2 | 2038.5 | 986.4  |
| 80°   | 201.8  | 208.3  | 261.0  | 400.8  | 1039.1 | 2387.0 | 2465.6 | 2567.3 | 1705.3 | 749.3  | 344.5  |
| 82.5° | 122.8  | 130.1  | 173.5  | 242.3  | 541.0  | 1082.1 | 1119.7 | 1191.5 | 661.8  | 323.8  | 178.3  |
| 85°   | 73.8   | 79.0   | 106.2  | 153.2  | 308.0  | 425.5  | 425.1  | 470.1  | 311.6  | 208.3  | 94.0   |
| 87.5° | 35.3   | 39.3   | 56.7   | 79.4   | 155.2  | 159.7  | 149.5  | 169.4  | 189.3  | 136.6  | 47.4   |
| 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°    | 1206.5 | 1206.5 | 1206.5 | 1206.5 | 1206.5 | 1206.5 | 1206.5 | 1206.5 | 1206.5 | 1206.5 | 1206.5 |
| 2.5°  | 1205.7 | 1204.0 | 1198.8 | 1194.7 | 1193.9 | 1191.5 | 1189.4 | 1190.7 | 1192.3 | 1192.7 | 1192.7 |
| 5°    | 1205.3 | 1200.8 | 1193.9 | 1191.1 | 1194.7 | 1199.6 | 1205.7 | 1213.8 | 1218.6 | 1222.3 | 1224.7 |
| 7.5°  | 1224.7 | 1216.2 | 1208.5 | 1206.9 | 1214.2 | 1227.1 | 1240.9 | 1257.9 | 1269.7 | 1277.8 | 1279.4 |
| 10°   | 1257.1 | 1246.6 | 1238.9 | 1240.5 | 1253.5 | 1272.1 | 1291.6 | 1313.5 | 1331.3 | 1342.2 | 1343.0 |
| 12.5° | 1294.4 | 1284.3 | 1277.0 | 1283.9 | 1305.4 | 1328.0 | 1348.3 | 1367.4 | 1383.6 | 1394.5 | 1394.5 |
| 15°   | 1337.4 | 1330.1 | 1321.6 | 1337.4 | 1366.5 | 1386.8 | 1395.3 | 1404.6 | 1413.6 | 1421.7 | 1420.0 |
| 17.5° | 1378.7 | 1371.8 | 1367.4 | 1386.0 | 1416.4 | 1425.7 | 1420.0 | 1413.2 | 1413.2 | 1417.6 | 1418.4 |
| 20°   | 1414.4 | 1408.3 | 1411.1 | 1429.4 | 1445.2 | 1435.4 | 1414.4 | 1392.5 | 1383.6 | 1386.0 | 1388.4 |
| 22.5° | 1445.6 | 1442.7 | 1451.2 | 1459.8 | 1448.4 | 1414.4 | 1375.5 | 1345.9 | 1334.9 | 1334.1 | 1334.9 |
| 25°   | 1482.0 | 1481.6 | 1492.2 | 1476.8 | 1426.5 | 1363.7 | 1311.4 | 1282.7 | 1276.6 | 1281.4 | 1289.5 |
| 27.5° | 1527.4 | 1531.9 | 1537.2 | 1480.8 | 1381.9 | 1287.1 | 1234.0 | 1214.2 | 1220.2 | 1232.0 | 1239.7 |
| 30°   | 1585.4 | 1597.5 | 1586.2 | 1470.7 | 1317.9 | 1199.6 | 1148.9 | 1143.2 | 1159.9 | 1176.5 | 1184.6 |
| 32.5° | 1641.7 | 1660.8 | 1633.2 | 1444.4 | 1235.2 | 1106.8 | 1067.5 | 1065.8 | 1086.1 | 1102.3 | 1113.7 |
| 35°   | 1687.1 | 1724.8 | 1668.5 | 1392.1 | 1139.6 | 1021.3 | 992.5  | 981.5  | 988.8  | 1007.9 | 1020.9 |
| 37.5° | 1746.3 | 1809.1 | 1692.8 | 1312.2 | 1035.9 | 950.7  | 917.1  | 892.0  | 885.5  | 893.2  | 899.7  |
| 40°   | 1854.5 | 1937.6 | 1704.1 | 1200.8 | 934.5  | 880.2  | 846.2  | 809.3  | 783.8  | 765.1  | 765.5  |
| 42.5° | 2031.2 | 2104.9 | 1696.8 | 1065.4 | 840.9  | 811.3  | 772.8  | 730.3  | 688.9  | 646.8  | 643.6  |
| 45°   | 2318.1 | 2353.8 | 1675.0 | 922.0  | 758.7  | 739.2  | 703.1  | 660.6  | 605.5  | 557.6  | 553.2  |
| 47.5° | 2777.3 | 2698.2 | 1640.9 | 796.7  | 686.1  | 678.0  | 644.8  | 595.7  | 537.4  | 498.9  | 495.6  |
| 50°   | 3403.4 | 3195.5 | 1624.3 | 697.1  | 622.1  | 624.5  | 597.4  | 545.5  | 490.4  | 462.0  | 458.8  |
| 52.5° | 4152.3 | 3774.6 | 1656.3 | 620.1  | 570.6  | 579.1  | 558.9  | 510.2  | 464.0  | 441.7  | 438.5  |
| 55°   | 4929.2 | 4374.4 | 1690.8 | 564.1  | 522.0  | 538.6  | 531.7  | 491.6  | 449.8  | 429.2  | 426.3  |
| 57.5° | 5594.3 | 4822.2 | 1621.9 | 518.7  | 478.6  | 504.6  | 510.6  | 479.8  | 442.5  | 423.9  | 420.7  |
| 60°   | 6012.9 | 5002.6 | 1441.1 | 476.2  | 444.2  | 477.4  | 498.5  | 476.6  | 445.4  | 443.8  | 441.3  |
| 62.5° | 6211.5 | 4986.8 | 1170.0 | 442.5  | 422.7  | 465.6  | 507.4  | 494.8  | 477.8  | 492.4  | 493.6  |
| 65°   | 6122.3 | 4748.5 | 871.3  | 420.3  | 407.3  | 470.1  | 534.1  | 529.3  | 487.1  | 501.7  | 503.7  |
| 67.5° | 5535.5 | 4179.9 | 645.2  | 400.8  | 390.3  | 482.7  | 582.8  | 540.6  | 468.9  | 479.4  | 472.9  |
| 70°   | 4474.1 | 3313.8 | 497.7  | 378.9  | 372.8  | 481.0  | 604.7  | 533.7  | 449.0  | 451.5  | 434.0  |
| 72.5° | 3085.3 | 2259.7 | 404.9  | 358.7  | 347.7  | 438.5  | 589.3  | 516.7  | 432.4  | 413.8  | 390.7  |
| 75°   | 1677.8 | 1213.0 | 344.1  | 337.6  | 303.5  | 385.0  | 560.9  | 504.6  | 417.4  | 392.7  | 379.7  |
| 77.5° | 660.2  | 503.3  | 298.7  | 308.8  | 265.4  | 340.0  | 529.3  | 481.5  | 396.8  | 364.3  | 357.8  |
| 80°   | 269.5  | 256.9  | 247.6  | 267.1  | 228.2  | 297.5  | 491.2  | 454.3  | 372.0  | 338.0  | 325.0  |
| 82.5° | 152.8  | 159.7  | 192.5  | 210.7  | 185.2  | 274.0  | 472.9  | 432.4  | 342.4  | 302.7  | 287.3  |
| 85°   | 78.2   | 93.6   | 134.1  | 151.2  | 136.2  | 233.0  | 435.7  | 378.5  | 274.8  | 231.8  | 233.0  |
| 87.5° | 37.7   | 52.3   | 84.7   | 94.8   | 88.3   | 168.6  | 325.4  | 274.4  | 214.0  | 169.4  | 164.1  |
| 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)