

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: P385997

Luminaire Tested: GAW-SA1C-760-U-SL4

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385997  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1C-760-U-SL4  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 5700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7177 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

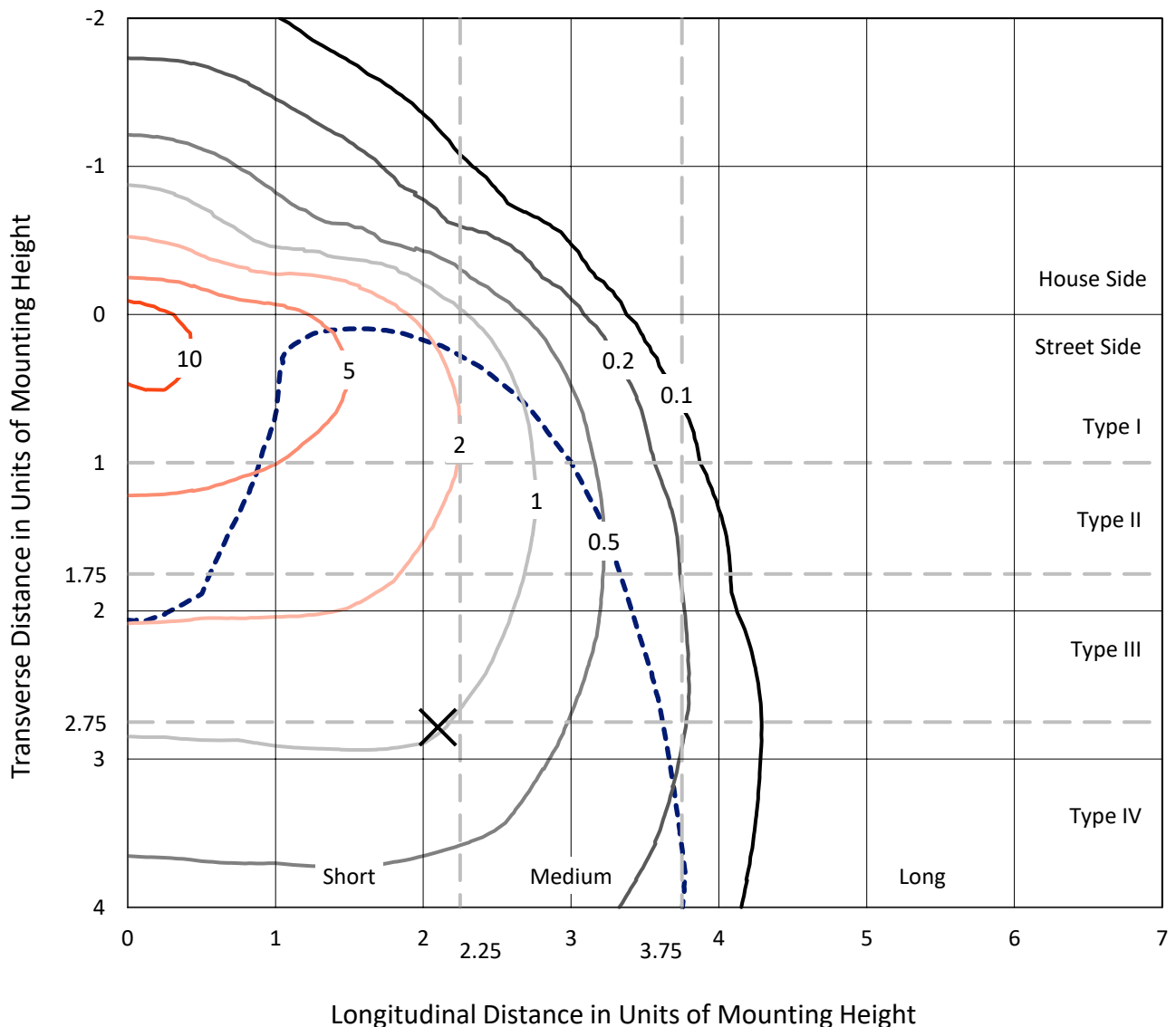
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

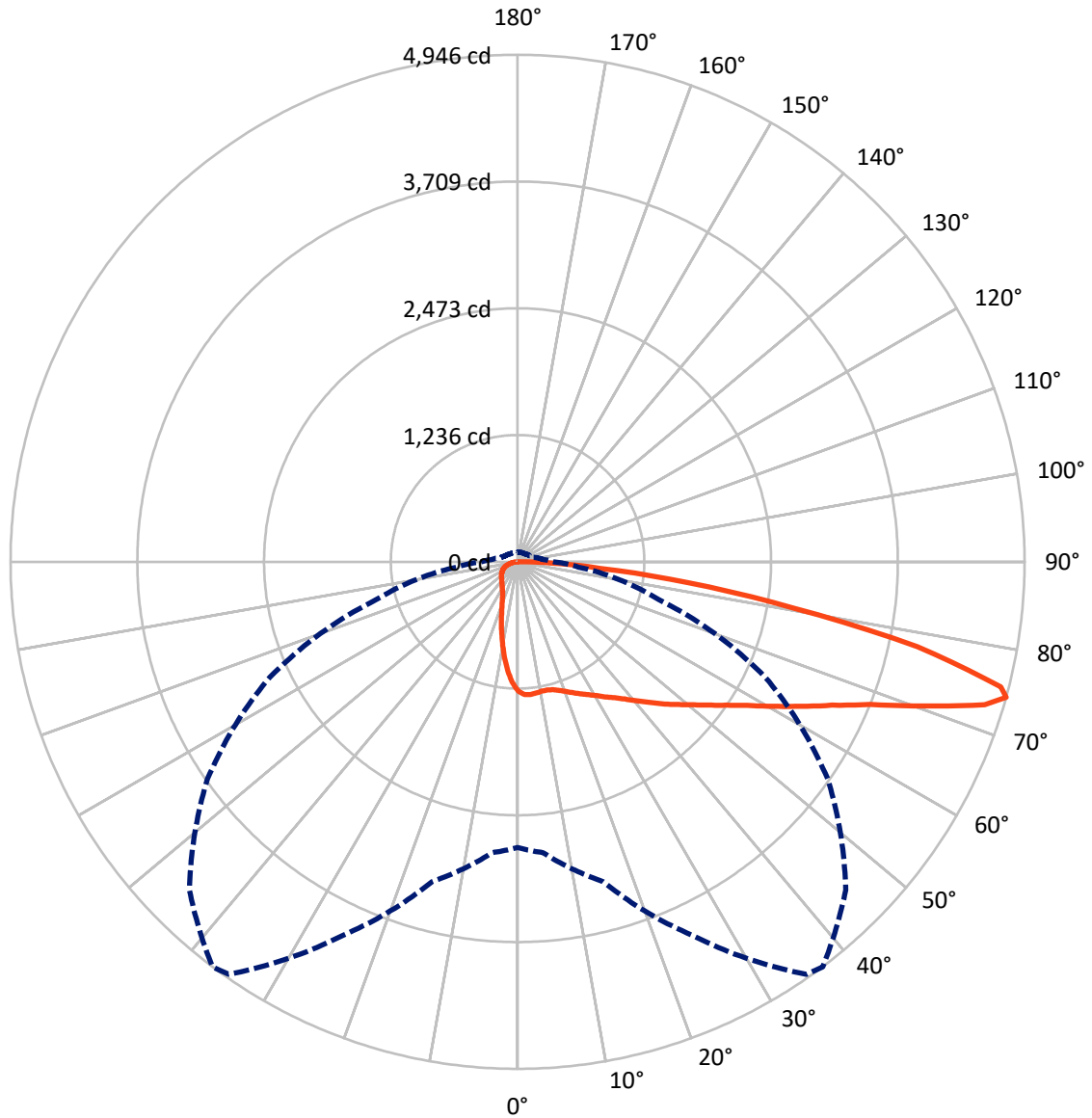
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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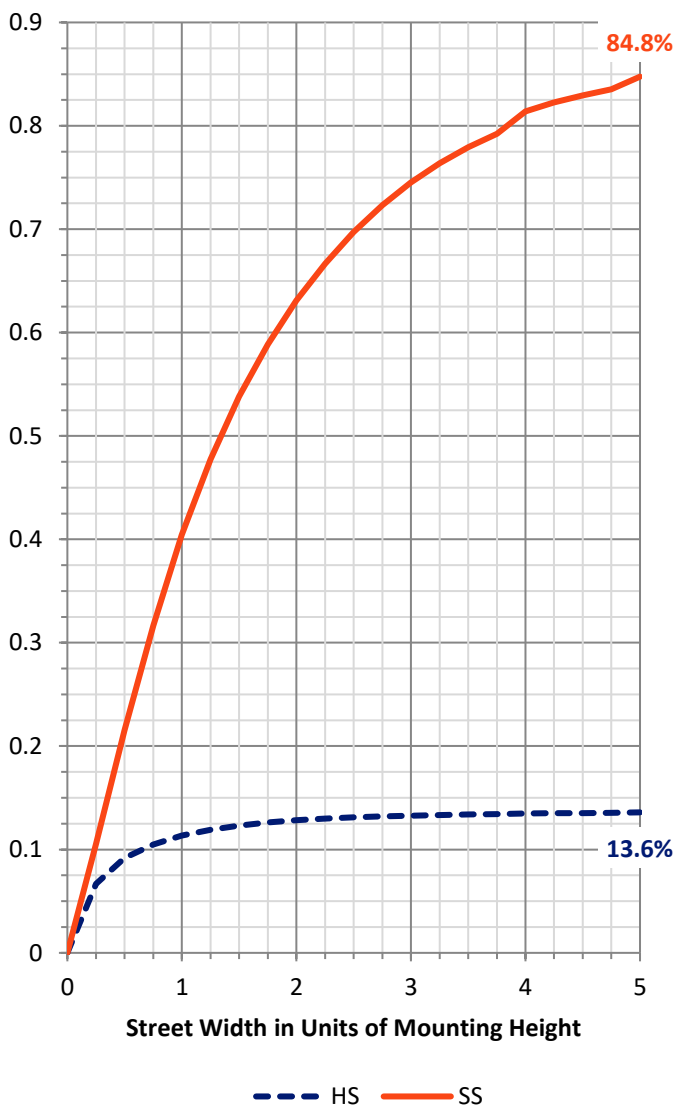
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 987.5    | 0.0    | 987.5  |
|                    | % Fixture | 13.8     | 0.0    | 13.8   |
| <b>Street Side</b> | Lumens    | 6189.5   | 0.0    | 6189.5 |
|                    | % Fixture | 86.2     | 0.0    | 86.2   |
| <b>Total</b>       | Lumens    | 7177.0   | 0.0    | 7177.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 111.4  | 1.6       |
| 10°-20°   | 285.4  | 4.0       |
| 20°-30°   | 439.8  | 6.1       |
| 30°-40°   | 639.5  | 8.9       |
| 40°-50°   | 941.3  | 13.1      |
| 50°-60°   | 1321.9 | 18.4      |
| 60°-70°   | 1673.1 | 23.3      |
| 70°-80°   | 1473.2 | 20.5      |
| 80°-90°   | 291.3  | 4.1       |
| 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°    | 7177.0 | 100.0     |
| 0°-180°   | 7177.0 | 100.0     |

**Coefficient of Utilization**



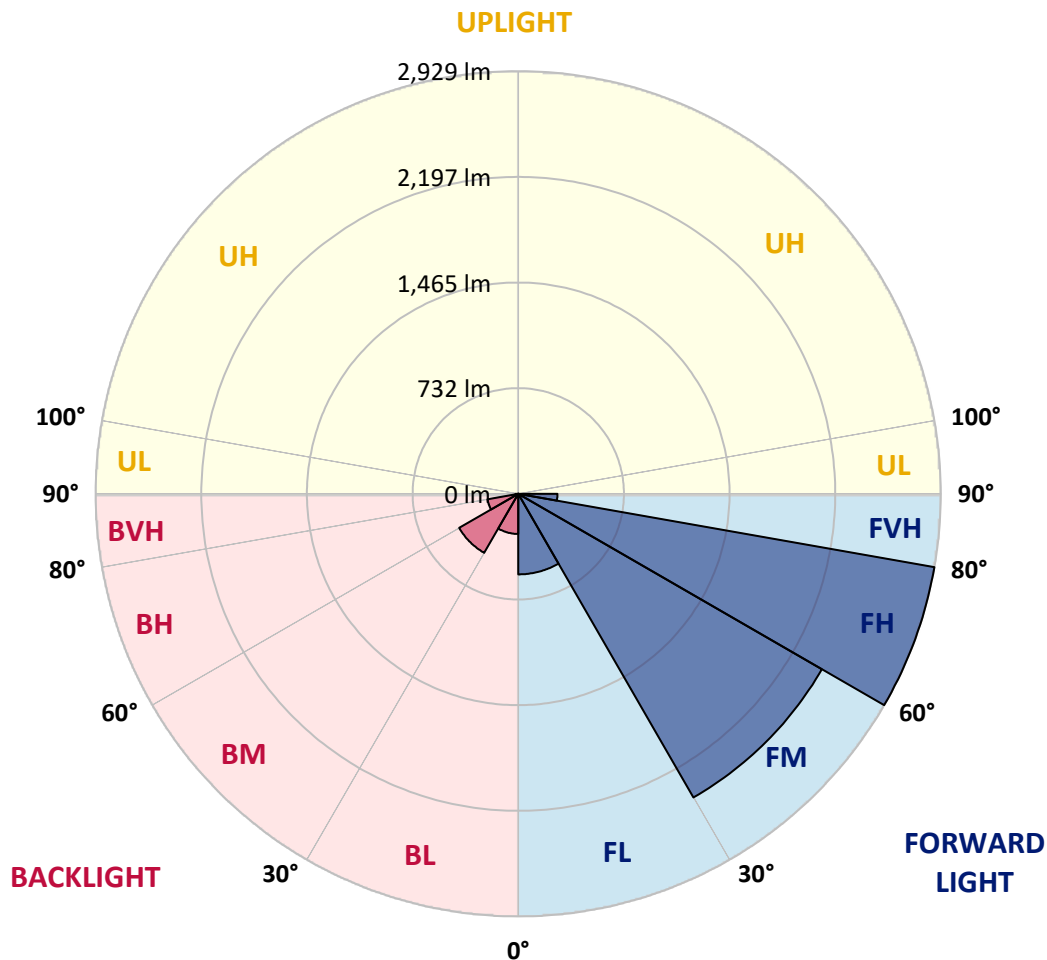
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 558.5  | 7.8       |                         |      |         |
| FM (30°-60°)   | 2430.2 | 33.9      |                         |      |         |
| FH (60°-80°)   | 2929.3 | 40.8      |                         |      | G2/5000 |
| FVH (80°-90°)  | 271.6  | 3.8       |                         |      | G3/500  |
| BL (0°-30°)    | 278.2  | 3.9       | B1/500                  |      |         |
| BM (30°-60°)   | 472.6  | 6.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 217.1  | 3.0       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 19.7   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 37°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 |
| 2.5°  | 1307.8 | 1308.0 | 1307.8 | 1305.8 | 1301.0 | 1296.9 | 1293.6 | 1288.8 | 1278.2 | 1270.1 | 1258.0 |
| 5°    | 1320.2 | 1318.7 | 1317.6 | 1313.9 | 1306.3 | 1301.7 | 1295.4 | 1286.3 | 1268.9 | 1252.7 | 1233.0 |
| 7.5°  | 1314.4 | 1312.6 | 1310.3 | 1305.8 | 1297.2 | 1293.4 | 1284.5 | 1272.6 | 1251.7 | 1230.4 | 1202.1 |
| 10°   | 1296.4 | 1295.9 | 1294.9 | 1293.9 | 1286.6 | 1283.5 | 1275.4 | 1262.8 | 1242.1 | 1216.3 | 1183.2 |
| 12.5° | 1276.4 | 1277.7 | 1281.8 | 1287.1 | 1283.8 | 1282.3 | 1277.2 | 1268.6 | 1247.4 | 1219.6 | 1179.6 |
| 15°   | 1263.8 | 1267.3 | 1278.2 | 1292.1 | 1294.9 | 1294.4 | 1293.1 | 1287.6 | 1265.1 | 1234.2 | 1187.7 |
| 17.5° | 1259.5 | 1265.3 | 1286.0 | 1309.1 | 1317.1 | 1318.9 | 1319.4 | 1309.8 | 1284.8 | 1252.2 | 1196.0 |
| 20°   | 1267.3 | 1274.7 | 1305.0 | 1336.6 | 1349.5 | 1350.5 | 1348.2 | 1331.6 | 1303.5 | 1267.6 | 1200.6 |
| 22.5° | 1291.1 | 1297.7 | 1335.6 | 1371.2 | 1385.9 | 1387.4 | 1380.6 | 1355.3 | 1323.2 | 1285.8 | 1206.9 |
| 25°   | 1336.9 | 1345.0 | 1382.9 | 1418.5 | 1426.1 | 1426.4 | 1416.5 | 1385.2 | 1349.0 | 1311.3 | 1220.6 |
| 27.5° | 1396.5 | 1404.6 | 1438.7 | 1473.6 | 1469.6 | 1467.3 | 1453.9 | 1422.6 | 1382.6 | 1346.5 | 1244.8 |
| 30°   | 1463.0 | 1471.9 | 1504.2 | 1529.0 | 1519.4 | 1514.8 | 1504.0 | 1463.5 | 1429.4 | 1394.5 | 1282.0 |
| 32.5° | 1531.8 | 1539.9 | 1568.2 | 1585.1 | 1573.0 | 1571.0 | 1554.5 | 1517.6 | 1490.3 | 1467.8 | 1342.2 |
| 35°   | 1602.3 | 1608.1 | 1635.9 | 1645.5 | 1629.4 | 1628.9 | 1624.3 | 1590.4 | 1573.2 | 1583.9 | 1429.6 |
| 37.5° | 1674.4 | 1675.9 | 1699.6 | 1700.2 | 1695.3 | 1697.4 | 1702.2 | 1680.9 | 1685.7 | 1718.9 | 1543.4 |
| 40°   | 1738.6 | 1742.6 | 1759.8 | 1765.1 | 1773.5 | 1780.5 | 1804.6 | 1790.7 | 1827.8 | 1886.5 | 1685.0 |
| 42.5° | 1786.1 | 1793.9 | 1821.5 | 1835.2 | 1862.2 | 1873.3 | 1907.2 | 1920.1 | 1994.9 | 2082.9 | 1853.4 |
| 45°   | 1826.3 | 1838.4 | 1882.7 | 1910.7 | 1956.5 | 1976.0 | 2024.5 | 2067.7 | 2183.8 | 2296.0 | 2030.6 |
| 47.5° | 1869.8 | 1885.2 | 1940.6 | 1994.2 | 2056.4 | 2078.4 | 2166.6 | 2231.3 | 2385.3 | 2510.4 | 2197.7 |
| 50°   | 1933.7 | 1945.6 | 1999.7 | 2083.9 | 2161.5 | 2189.8 | 2312.0 | 2404.7 | 2590.0 | 2714.7 | 2342.5 |
| 52.5° | 2023.0 | 2018.4 | 2064.2 | 2182.3 | 2286.4 | 2321.3 | 2467.2 | 2589.3 | 2797.6 | 2899.5 | 2464.9 |
| 55°   | 2112.7 | 2105.2 | 2137.3 | 2285.2 | 2432.0 | 2468.7 | 2638.1 | 2774.6 | 2995.0 | 3065.8 | 2558.7 |
| 57.5° | 2212.6 | 2198.2 | 2225.2 | 2401.2 | 2597.9 | 2641.6 | 2829.5 | 2971.5 | 3189.2 | 3200.3 | 2618.4 |
| 60°   | 2315.5 | 2296.0 | 2326.4 | 2545.0 | 2808.5 | 2860.0 | 3053.4 | 3163.7 | 3372.2 | 3308.0 | 2637.6 |
| 62.5° | 2405.5 | 2391.8 | 2438.6 | 2705.6 | 3045.9 | 3102.5 | 3273.4 | 3367.9 | 3552.8 | 3352.8 | 2568.3 |
| 65°   | 2484.1 | 2486.4 | 2567.3 | 2886.1 | 3310.6 | 3371.0 | 3525.7 | 3619.7 | 3694.8 | 3326.2 | 2406.3 |
| 67.5° | 2577.9 | 2590.8 | 2728.8 | 3123.7 | 3643.8 | 3710.0 | 3892.8 | 3894.3 | 3774.2 | 3170.5 | 2087.2 |
| 70°   | 2714.7 | 2741.2 | 2951.1 | 3453.4 | 4117.5 | 4208.5 | 4349.6 | 4055.6 | 3662.7 | 2748.3 | 1642.3 |
| 72.5° | 2836.0 | 2885.6 | 3187.4 | 3830.6 | 4694.9 | 4764.0 | 4616.8 | 3962.6 | 3196.8 | 2059.6 | 1023.1 |
| 74°   | 2786.7 | 2848.2 | 3230.4 | 4016.4 | 4912.4 | 4945.5 | 4526.6 | 3691.0 | 2665.4 | 1426.4 | 594.6  |
| 75°   | 2680.6 | 2747.3 | 3167.7 | 4014.6 | 4884.8 | 4866.4 | 4308.7 | 3380.8 | 2195.2 | 972.8  | 395.6  |
| 77.5° | 2163.3 | 2233.8 | 2669.2 | 3440.8 | 4005.3 | 3987.8 | 3309.8 | 2268.0 | 961.4  | 319.0  | 201.0  |
| 80°   | 1257.7 | 1311.6 | 1656.9 | 2185.0 | 2700.8 | 2732.4 | 2176.7 | 1122.2 | 378.2  | 179.2  | 136.3  |
| 82.5° | 558.7  | 595.9  | 800.4  | 1115.4 | 1629.9 | 1670.6 | 1139.9 | 588.0  | 233.6  | 109.0  | 81.9   |
| 85°   | 366.6  | 394.1  | 485.9  | 531.2  | 776.1  | 803.9  | 558.0  | 457.8  | 154.2  | 59.9   | 60.2   |
| 87.5° | 263.7  | 290.2  | 361.0  | 315.3  | 356.2  | 337.2  | 303.6  | 423.7  | 61.9   | 34.1   | 20.2   |
| 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°    | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 |
| 2.5°  | 1252.7 | 1248.6 | 1239.5 | 1222.3 | 1212.7 | 1204.6 | 1191.2 | 1183.4 | 1179.9 | 1179.6 | 1181.1 |
| 5°    | 1221.6 | 1212.2 | 1188.7 | 1159.9 | 1136.9 | 1115.9 | 1089.9 | 1074.2 | 1063.1 | 1056.5 | 1058.3 |
| 7.5°  | 1185.4 | 1170.8 | 1133.9 | 1087.8 | 1050.9 | 1010.2 | 970.0  | 946.0  | 927.3  | 913.4  | 915.9  |
| 10°   | 1160.7 | 1140.4 | 1086.6 | 1020.3 | 958.9  | 899.8  | 844.4  | 811.3  | 785.0  | 764.8  | 766.3  |
| 12.5° | 1152.3 | 1125.0 | 1050.4 | 961.9  | 875.7  | 794.8  | 722.5  | 671.7  | 644.7  | 621.7  | 623.4  |
| 15°   | 1153.6 | 1116.9 | 1020.1 | 909.4  | 800.9  | 699.0  | 611.3  | 551.9  | 515.2  | 499.3  | 499.6  |
| 17.5° | 1154.6 | 1107.6 | 988.2  | 853.0  | 726.8  | 609.5  | 514.2  | 454.0  | 419.4  | 404.8  | 405.0  |
| 20°   | 1151.3 | 1092.4 | 948.8  | 788.3  | 649.5  | 527.4  | 435.1  | 384.0  | 357.7  | 346.4  | 346.4  |
| 22.5° | 1147.0 | 1074.4 | 904.3  | 723.3  | 573.1  | 456.1  | 378.5  | 339.5  | 324.4  | 316.8  | 316.5  |
| 25°   | 1149.0 | 1061.0 | 858.8  | 656.5  | 502.8  | 399.2  | 340.8  | 315.0  | 304.9  | 300.1  | 299.8  |
| 27.5° | 1159.9 | 1054.7 | 816.8  | 590.1  | 441.4  | 356.5  | 315.5  | 297.3  | 290.7  | 287.7  | 287.7  |
| 30°   | 1179.6 | 1054.7 | 773.1  | 533.4  | 390.3  | 324.9  | 296.0  | 283.7  | 279.1  | 277.1  | 277.1  |
| 32.5° | 1214.0 | 1060.5 | 730.9  | 477.3  | 349.6  | 300.1  | 279.9  | 271.5  | 268.0  | 267.0  | 267.0  |
| 35°   | 1273.2 | 1080.3 | 689.7  | 424.2  | 316.8  | 279.9  | 264.4  | 259.6  | 257.1  | 256.9  | 257.6  |
| 37.5° | 1356.3 | 1120.5 | 651.0  | 385.0  | 293.5  | 263.4  | 251.5  | 247.8  | 246.2  | 247.5  | 248.5  |
| 40°   | 1461.0 | 1175.1 | 615.8  | 349.6  | 275.8  | 250.3  | 239.7  | 237.1  | 236.4  | 238.1  | 239.7  |
| 42.5° | 1587.4 | 1248.9 | 587.0  | 324.1  | 262.2  | 239.2  | 229.6  | 226.5  | 225.8  | 227.8  | 229.8  |
| 45°   | 1724.2 | 1328.3 | 566.8  | 305.1  | 251.5  | 230.8  | 220.7  | 217.4  | 215.9  | 216.9  | 219.2  |
| 47.5° | 1848.6 | 1403.4 | 558.7  | 291.7  | 241.4  | 223.7  | 212.9  | 208.8  | 206.3  | 205.8  | 207.6  |
| 50°   | 1953.5 | 1459.2 | 562.5  | 283.7  | 233.3  | 215.9  | 205.3  | 200.7  | 196.9  | 194.7  | 195.9  |
| 52.5° | 2029.8 | 1494.4 | 566.0  | 280.1  | 227.0  | 207.3  | 196.9  | 192.6  | 187.6  | 183.8  | 183.8  |
| 55°   | 2085.2 | 1502.5 | 558.2  | 277.3  | 222.2  | 198.0  | 187.6  | 183.5  | 178.5  | 174.2  | 173.7  |
| 57.5° | 2106.9 | 1479.7 | 529.1  | 273.3  | 218.9  | 189.1  | 177.7  | 174.7  | 170.4  | 165.3  | 165.1  |
| 60°   | 2077.6 | 1409.4 | 473.0  | 264.7  | 214.6  | 181.8  | 167.9  | 165.8  | 163.8  | 159.0  | 158.8  |
| 62.5° | 1959.8 | 1255.2 | 400.5  | 247.2  | 206.0  | 173.9  | 158.8  | 159.8  | 160.0  | 156.7  | 156.2  |
| 65°   | 1746.2 | 1043.4 | 329.7  | 224.5  | 193.1  | 164.6  | 149.4  | 154.2  | 157.0  | 156.5  | 155.7  |
| 67.5° | 1435.7 | 812.0  | 279.4  | 200.5  | 176.2  | 151.7  | 139.3  | 144.9  | 147.1  | 148.9  | 148.4  |
| 70°   | 1065.6 | 572.6  | 231.1  | 175.2  | 155.7  | 136.5  | 126.2  | 128.9  | 127.4  | 129.4  | 130.2  |
| 72.5° | 594.1  | 343.6  | 188.3  | 149.9  | 134.5  | 118.8  | 111.5  | 111.0  | 107.7  | 107.7  | 107.7  |
| 74°   | 356.5  | 252.1  | 165.6  | 134.2  | 121.6  | 107.2  | 100.9  | 98.6   | 95.6   | 95.8   | 95.6   |
| 75°   | 286.7  | 216.7  | 151.9  | 123.9  | 112.5  | 100.4  | 94.0   | 91.0   | 88.7   | 88.7   | 88.5   |
| 77.5° | 181.0  | 164.6  | 122.4  | 98.6   | 90.0   | 82.7   | 78.4   | 74.3   | 74.3   | 74.1   | 73.8   |
| 80°   | 136.8  | 131.0  | 95.3   | 74.6   | 69.0   | 63.5   | 60.7   | 58.9   | 58.9   | 59.7   | 59.4   |
| 82.5° | 93.8   | 98.6   | 67.0   | 52.1   | 49.3   | 45.3   | 44.7   | 45.0   | 44.2   | 43.2   | 43.0   |
| 85°   | 68.5   | 74.1   | 45.3   | 32.9   | 30.1   | 27.6   | 29.6   | 30.6   | 29.3   | 27.1   | 26.0   |
| 87.5° | 26.3   | 48.5   | 24.3   | 13.7   | 12.6   | 10.9   | 12.6   | 13.1   | 14.2   | 11.1   | 11.4   |
| 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)