

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P318815

Luminaire Tested: **GAN-SA1D-760-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318815  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1D-760-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8173 lumens  
Efficiency: N/A  
Efficacy: 122.0 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

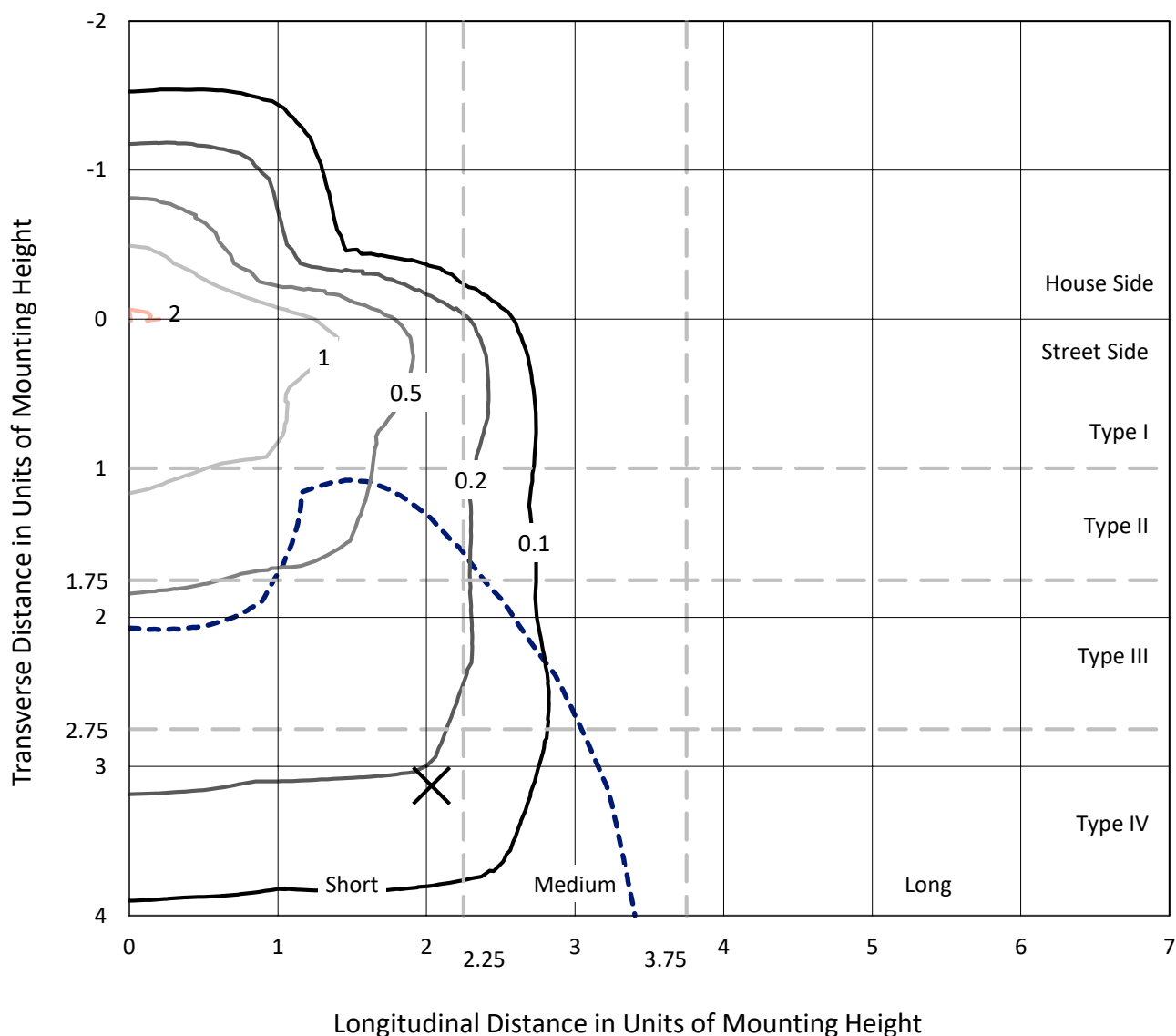
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

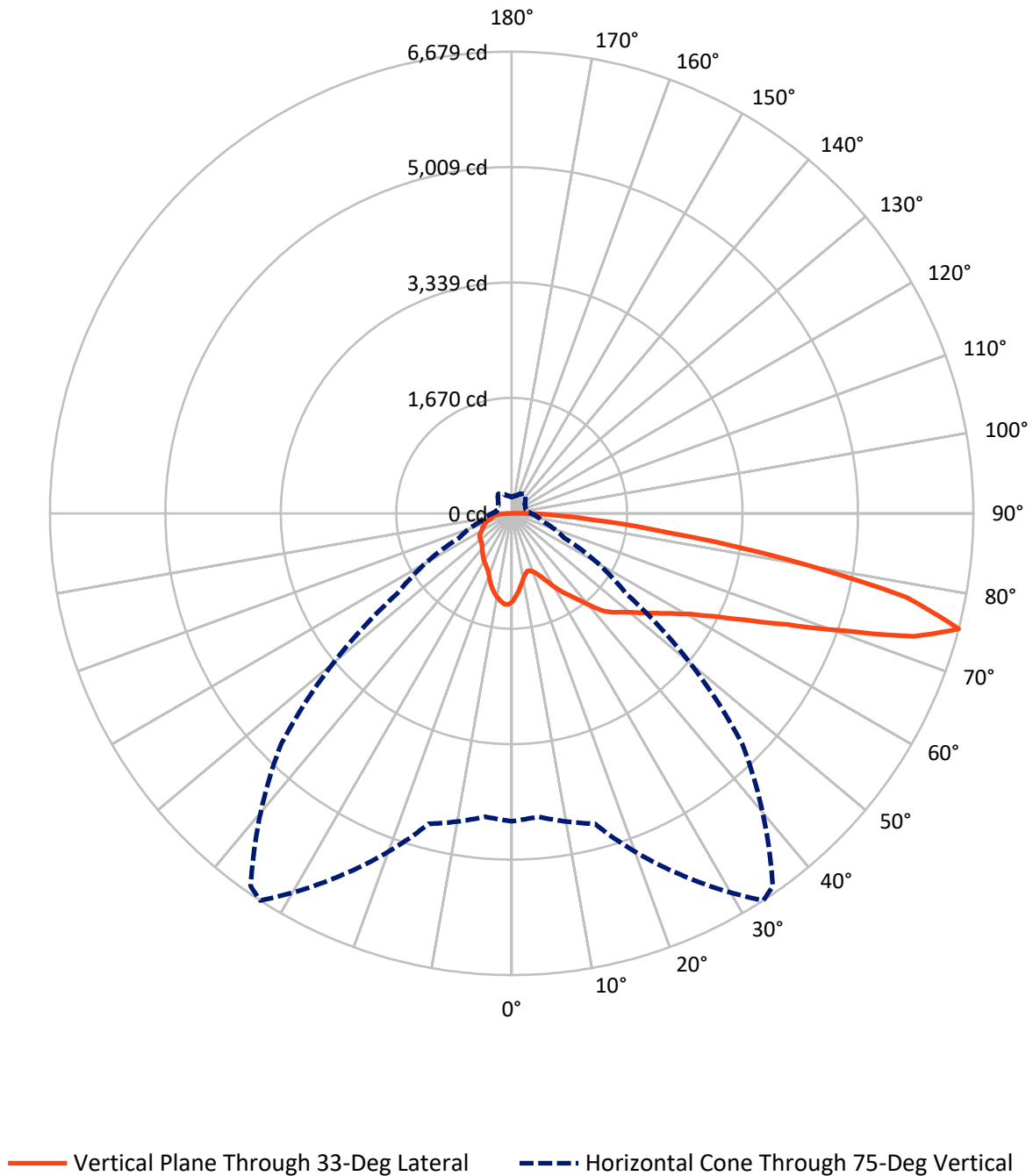
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1755.0   | 0.0    | 1755.0 |
|                    | % Fixture | 21.5     | 0.0    | 21.5   |
| <b>Street Side</b> | Lumens    | 6418.0   | 0.0    | 6418.0 |
|                    | % Fixture | 78.5     | 0.0    | 78.5   |
| <b>Total</b>       | Lumens    | 8173.0   | 0.0    | 8173.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 115.5  | 1.4       |
| 10°-20°   | 312.9  | 3.8       |
| 20°-30°   | 511.0  | 6.3       |
| 30°-40°   | 761.0  | 9.3       |
| 40°-50°   | 1091.5 | 13.4      |
| 50°-60°   | 1498.5 | 18.3      |
| 60°-70°   | 1876.1 | 23.0      |
| 70°-80°   | 1697.2 | 20.8      |
| 80°-90°   | 309.2  | 3.8       |
| 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°    | 8173.0 | 100.0     |
| 0°-180°   | 8173.0 | 100.0     |

**Coefficient of Utilization**



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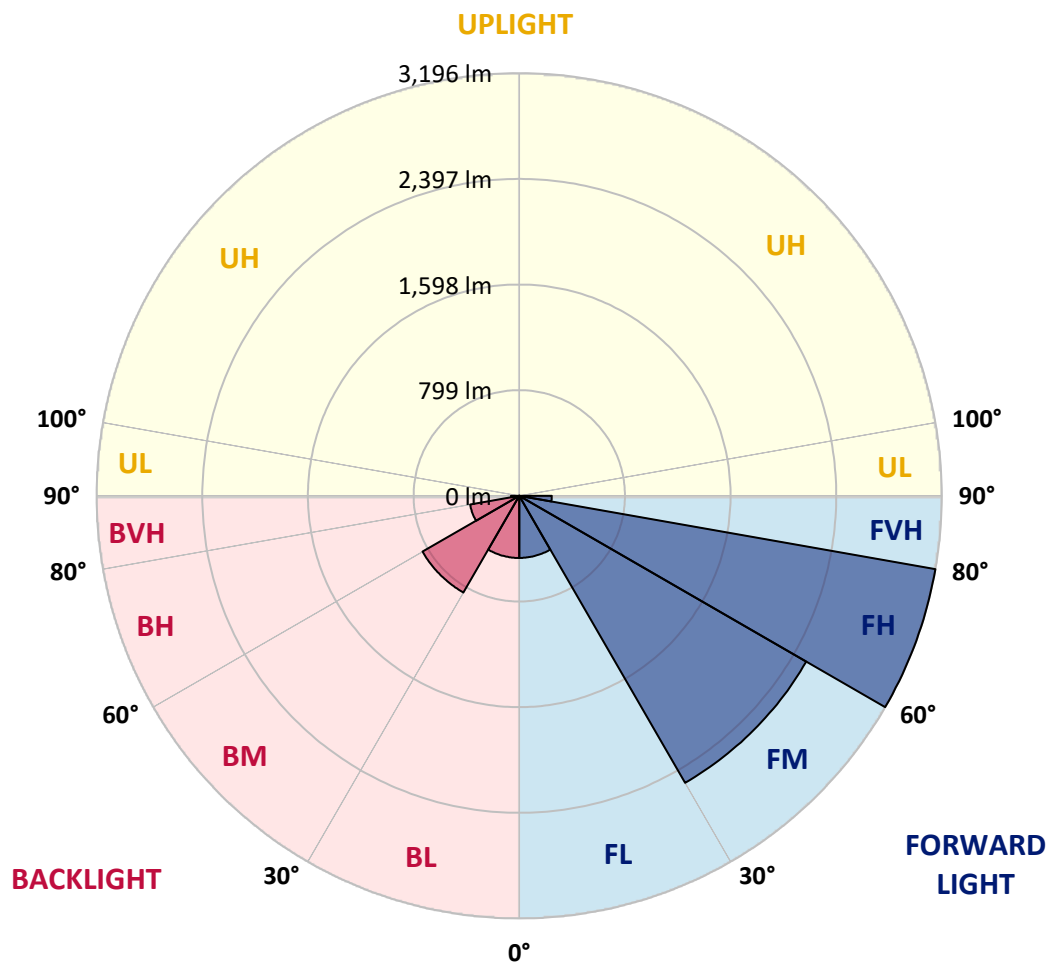
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 469.4  | 5.7       |                         |      |         |
| FM   | (30°-60°)   | 2506.5 | 30.7      |                         |      |         |
| FH   | (60°-80°)   | 3195.9 | 39.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 246.2  | 3.0       |                         |      | G3/500  |
| BL   | (0°-30°)    | 470.1  | 5.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 844.6  | 10.3      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 377.4  | 4.6       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 62.9   | 0.8       |                         |      | 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°    | 33°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 |
| 2.5°  | 1186.3 | 1181.8 | 1190.2 | 1191.4 | 1198.7 | 1201.5 | 1211.7 | 1227.5 | 1240.5 | 1255.5 | 1269.0 |
| 5°    | 1078.7 | 1075.6 | 1087.5 | 1096.0 | 1112.0 | 1118.8 | 1142.8 | 1176.4 | 1206.3 | 1240.2 | 1271.0 |
| 7.5°  | 976.5  | 974.8  | 988.1  | 1007.3 | 1025.9 | 1035.3 | 1076.8 | 1125.6 | 1175.6 | 1230.3 | 1277.5 |
| 10°   | 890.4  | 889.9  | 902.6  | 921.5  | 948.9  | 959.3  | 1013.0 | 1077.3 | 1147.3 | 1222.7 | 1288.5 |
| 12.5° | 842.2  | 844.1  | 850.1  | 865.9  | 891.3  | 901.7  | 961.3  | 1037.0 | 1123.6 | 1220.2 | 1304.6 |
| 15°   | 854.0  | 857.1  | 847.0  | 846.4  | 864.5  | 872.6  | 928.5  | 1008.2 | 1106.7 | 1224.4 | 1328.0 |
| 17.5° | 904.5  | 905.1  | 878.3  | 861.4  | 872.4  | 876.6  | 918.4  | 991.8  | 1096.8 | 1234.0 | 1357.4 |
| 20°   | 975.7  | 974.3  | 926.8  | 898.6  | 904.5  | 905.7  | 932.8  | 992.1  | 1096.0 | 1250.7 | 1395.5 |
| 22.5° | 1070.0 | 1059.5 | 995.7  | 957.3  | 955.9  | 954.2  | 969.8  | 1013.0 | 1108.4 | 1277.8 | 1440.9 |
| 25°   | 1193.1 | 1183.2 | 1095.4 | 1042.9 | 1031.6 | 1027.4 | 1029.6 | 1057.6 | 1132.9 | 1306.8 | 1491.8 |
| 27.5° | 1330.0 | 1312.8 | 1228.1 | 1153.8 | 1130.4 | 1124.5 | 1110.9 | 1120.5 | 1159.8 | 1334.8 | 1552.2 |
| 30°   | 1444.6 | 1435.3 | 1361.3 | 1273.3 | 1245.6 | 1237.1 | 1201.5 | 1191.1 | 1198.4 | 1372.9 | 1628.4 |
| 32.5° | 1508.7 | 1502.5 | 1457.6 | 1386.5 | 1360.8 | 1348.9 | 1298.7 | 1277.8 | 1260.5 | 1433.0 | 1731.7 |
| 35°   | 1586.3 | 1582.4 | 1555.3 | 1503.6 | 1465.5 | 1453.1 | 1414.1 | 1392.4 | 1348.1 | 1515.8 | 1865.3 |
| 37.5° | 1685.2 | 1680.9 | 1681.5 | 1639.7 | 1594.2 | 1582.7 | 1557.0 | 1534.1 | 1461.6 | 1624.5 | 2010.4 |
| 40°   | 1796.9 | 1788.8 | 1785.7 | 1783.7 | 1754.9 | 1748.4 | 1734.8 | 1703.8 | 1603.8 | 1754.3 | 2153.5 |
| 42.5° | 1965.2 | 1936.1 | 1874.0 | 1897.5 | 1926.0 | 1922.6 | 1933.6 | 1889.0 | 1761.9 | 1907.9 | 2293.3 |
| 45°   | 2127.5 | 2079.8 | 1972.6 | 1977.6 | 2040.0 | 2058.9 | 2141.4 | 2109.8 | 1933.3 | 2076.2 | 2437.8 |
| 47.5° | 2201.5 | 2165.4 | 2074.2 | 2074.5 | 2136.3 | 2175.5 | 2356.2 | 2333.6 | 2113.4 | 2267.3 | 2614.3 |
| 50°   | 2284.2 | 2248.1 | 2166.2 | 2197.0 | 2250.9 | 2292.7 | 2563.7 | 2552.1 | 2284.8 | 2476.5 | 2825.7 |
| 52.5° | 2374.6 | 2313.3 | 2261.4 | 2316.4 | 2392.1 | 2440.6 | 2771.5 | 2739.9 | 2442.0 | 2687.1 | 3068.8 |
| 55°   | 2375.7 | 2359.0 | 2398.6 | 2438.9 | 2552.1 | 2611.7 | 2989.2 | 2905.6 | 2570.2 | 2894.0 | 3266.7 |
| 57.5° | 2510.9 | 2483.8 | 2567.7 | 2586.3 | 2734.2 | 2801.4 | 3205.7 | 3049.9 | 2700.6 | 3052.7 | 3373.4 |
| 60°   | 2689.9 | 2666.8 | 2735.4 | 2784.5 | 2959.5 | 3049.3 | 3436.9 | 3198.1 | 2803.1 | 3172.4 | 3368.3 |
| 62.5° | 2999.1 | 2972.8 | 2972.0 | 3040.8 | 3276.6 | 3381.0 | 3696.4 | 3343.5 | 2843.8 | 3196.1 | 3224.6 |
| 65°   | 3451.6 | 3409.8 | 3331.1 | 3363.8 | 3714.4 | 3818.6 | 3986.3 | 3448.8 | 2790.1 | 3069.1 | 2854.5 |
| 67.5° | 3892.0 | 3890.6 | 3793.8 | 3861.0 | 4292.6 | 4376.2 | 4316.6 | 3459.2 | 2622.7 | 2626.7 | 2197.8 |
| 70°   | 4331.0 | 4336.7 | 4320.3 | 4554.1 | 5073.8 | 5160.8 | 4668.4 | 3318.9 | 2246.4 | 1896.9 | 1316.7 |
| 72.5° | 4678.8 | 4677.4 | 4759.9 | 5362.6 | 6087.6 | 6068.1 | 4964.8 | 2893.8 | 1612.9 | 1024.0 | 629.3  |
| 75°   | 4453.6 | 4404.4 | 4650.0 | 5762.9 | 6678.5 | 6583.4 | 4712.7 | 2018.6 | 837.1  | 466.1  | 338.8  |
| 77.5° | 2904.8 | 2951.3 | 3311.9 | 4760.7 | 5841.7 | 5726.0 | 3457.5 | 941.8  | 394.4  | 305.7  | 245.6  |
| 80°   | 1051.9 | 1101.0 | 1550.8 | 2696.7 | 4024.7 | 4005.8 | 1702.7 | 387.1  | 266.8  | 230.9  | 179.0  |
| 82.5° | 361.9  | 380.0  | 611.8  | 1197.6 | 2272.4 | 2357.1 | 640.6  | 219.9  | 194.0  | 163.7  | 122.5  |
| 85°   | 142.0  | 162.6  | 279.8  | 576.2  | 1146.2 | 1154.7 | 259.4  | 131.6  | 134.9  | 107.3  | 67.2   |
| 87.5° | 53.9   | 65.5   | 133.8  | 267.6  | 523.4  | 480.8  | 92.9   | 62.7   | 76.8   | 63.8   | 31.9   |
| 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°    | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 |
| 2.5°  | 1279.5 | 1285.4 | 1297.8 | 1306.3 | 1315.3 | 1317.9 | 1319.0 | 1321.2 | 1323.5 | 1322.7 | 1322.9 |
| 5°    | 1287.4 | 1298.9 | 1319.0 | 1327.5 | 1331.4 | 1326.9 | 1318.1 | 1311.1 | 1306.0 | 1303.2 | 1302.3 |
| 7.5°  | 1300.4 | 1316.7 | 1338.2 | 1336.8 | 1327.7 | 1307.7 | 1285.1 | 1268.2 | 1254.1 | 1249.0 | 1246.1 |
| 10°   | 1317.6 | 1336.8 | 1351.7 | 1335.6 | 1309.4 | 1274.7 | 1240.8 | 1214.5 | 1193.4 | 1185.2 | 1183.8 |
| 12.5° | 1339.6 | 1359.1 | 1361.9 | 1327.7 | 1284.3 | 1236.8 | 1190.8 | 1156.1 | 1124.5 | 1114.3 | 1112.0 |
| 15°   | 1368.1 | 1386.5 | 1369.0 | 1313.9 | 1253.2 | 1189.4 | 1129.8 | 1082.7 | 1049.4 | 1037.0 | 1032.4 |
| 17.5° | 1398.0 | 1415.5 | 1370.4 | 1291.0 | 1212.6 | 1133.2 | 1058.4 | 1010.1 | 972.0  | 957.6  | 955.9  |
| 20°   | 1433.9 | 1441.8 | 1364.4 | 1258.3 | 1156.7 | 1060.4 | 981.6  | 936.2  | 915.8  | 905.7  | 904.5  |
| 22.5° | 1478.2 | 1469.7 | 1350.9 | 1214.0 | 1085.8 | 976.3  | 912.2  | 891.0  | 885.9  | 883.7  | 884.5  |
| 25°   | 1525.1 | 1499.1 | 1330.8 | 1156.1 | 996.3  | 892.1  | 861.4  | 867.3  | 874.1  | 873.2  | 873.2  |
| 27.5° | 1576.7 | 1529.0 | 1300.1 | 1079.3 | 897.2  | 823.2  | 826.9  | 848.6  | 858.8  | 858.5  | 858.2  |
| 30°   | 1643.1 | 1562.9 | 1260.8 | 987.0  | 804.6  | 774.7  | 797.0  | 823.5  | 837.4  | 836.8  | 837.1  |
| 32.5° | 1724.7 | 1600.2 | 1207.5 | 883.9  | 737.7  | 738.8  | 764.5  | 790.8  | 806.9  | 805.5  | 805.7  |
| 35°   | 1820.1 | 1642.0 | 1135.2 | 782.3  | 693.4  | 710.3  | 730.6  | 749.0  | 764.2  | 762.3  | 760.3  |
| 37.5° | 1924.0 | 1682.9 | 1039.2 | 691.4  | 657.2  | 683.8  | 700.7  | 703.8  | 710.9  | 705.8  | 702.1  |
| 40°   | 2022.8 | 1714.2 | 915.6  | 616.9  | 620.8  | 661.2  | 672.2  | 659.8  | 647.1  | 645.4  | 640.3  |
| 42.5° | 2108.9 | 1724.7 | 790.5  | 557.3  | 582.4  | 637.5  | 644.2  | 618.3  | 595.4  | 584.7  | 580.2  |
| 45°   | 2199.8 | 1728.3 | 673.9  | 507.3  | 545.4  | 616.3  | 623.6  | 588.9  | 556.7  | 533.6  | 526.0  |
| 47.5° | 2318.7 | 1754.9 | 583.3  | 470.3  | 517.2  | 602.2  | 612.6  | 565.5  | 523.7  | 490.7  | 483.6  |
| 50°   | 2474.2 | 1807.4 | 509.6  | 442.1  | 498.9  | 592.9  | 604.7  | 542.6  | 496.6  | 456.8  | 449.7  |
| 52.5° | 2647.0 | 1855.7 | 450.0  | 419.2  | 481.1  | 576.5  | 594.6  | 526.2  | 471.2  | 425.5  | 417.8  |
| 55°   | 2767.8 | 1818.7 | 402.0  | 395.5  | 457.9  | 553.1  | 580.4  | 512.4  | 434.8  | 395.0  | 388.2  |
| 57.5° | 2791.0 | 1692.2 | 365.6  | 371.0  | 430.0  | 523.7  | 558.7  | 481.6  | 415.0  | 381.7  | 374.6  |
| 60°   | 2727.7 | 1516.0 | 338.5  | 348.4  | 400.0  | 486.7  | 518.1  | 459.9  | 396.1  | 367.6  | 361.6  |
| 62.5° | 2568.8 | 1335.6 | 318.5  | 328.1  | 372.1  | 449.2  | 492.6  | 437.0  | 376.9  | 351.5  | 345.6  |
| 65°   | 2247.8 | 1121.4 | 299.3  | 310.0  | 346.1  | 416.7  | 469.8  | 415.9  | 358.0  | 338.5  | 332.9  |
| 67.5° | 1696.7 | 839.9  | 281.2  | 290.8  | 323.0  | 388.5  | 444.9  | 395.0  | 339.6  | 327.2  | 320.4  |
| 70°   | 999.1  | 526.0  | 260.6  | 270.7  | 298.7  | 359.1  | 418.4  | 372.1  | 316.8  | 311.1  | 302.4  |
| 72.5° | 465.0  | 316.5  | 237.1  | 247.0  | 268.2  | 319.9  | 384.2  | 342.2  | 289.7  | 277.2  | 265.4  |
| 75°   | 277.5  | 231.5  | 209.5  | 218.2  | 233.2  | 278.1  | 341.3  | 311.7  | 264.0  | 247.6  | 235.2  |
| 77.5° | 207.5  | 177.0  | 179.0  | 188.3  | 200.4  | 243.4  | 302.4  | 287.7  | 244.2  | 231.5  | 223.0  |
| 80°   | 149.3  | 134.4  | 146.0  | 156.1  | 168.8  | 221.3  | 289.7  | 265.9  | 220.8  | 203.8  | 195.9  |
| 82.5° | 99.7   | 96.6   | 109.8  | 120.3  | 132.7  | 193.7  | 272.2  | 232.9  | 188.6  | 167.1  | 149.6  |
| 85°   | 55.1   | 58.2   | 74.0   | 78.5   | 89.2   | 136.4  | 223.0  | 187.2  | 142.0  | 114.3  | 109.3  |
| 87.5° | 22.9   | 26.8   | 39.8   | 38.4   | 47.4   | 81.3   | 146.8  | 112.9  | 90.3   | 67.5   | 52.5   |
| 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)