

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: P191510

Luminaire Tested: **GAN-AF-02-LED-U-T4FT-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191510  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-02-LED-U-T4FT-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8257.3 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

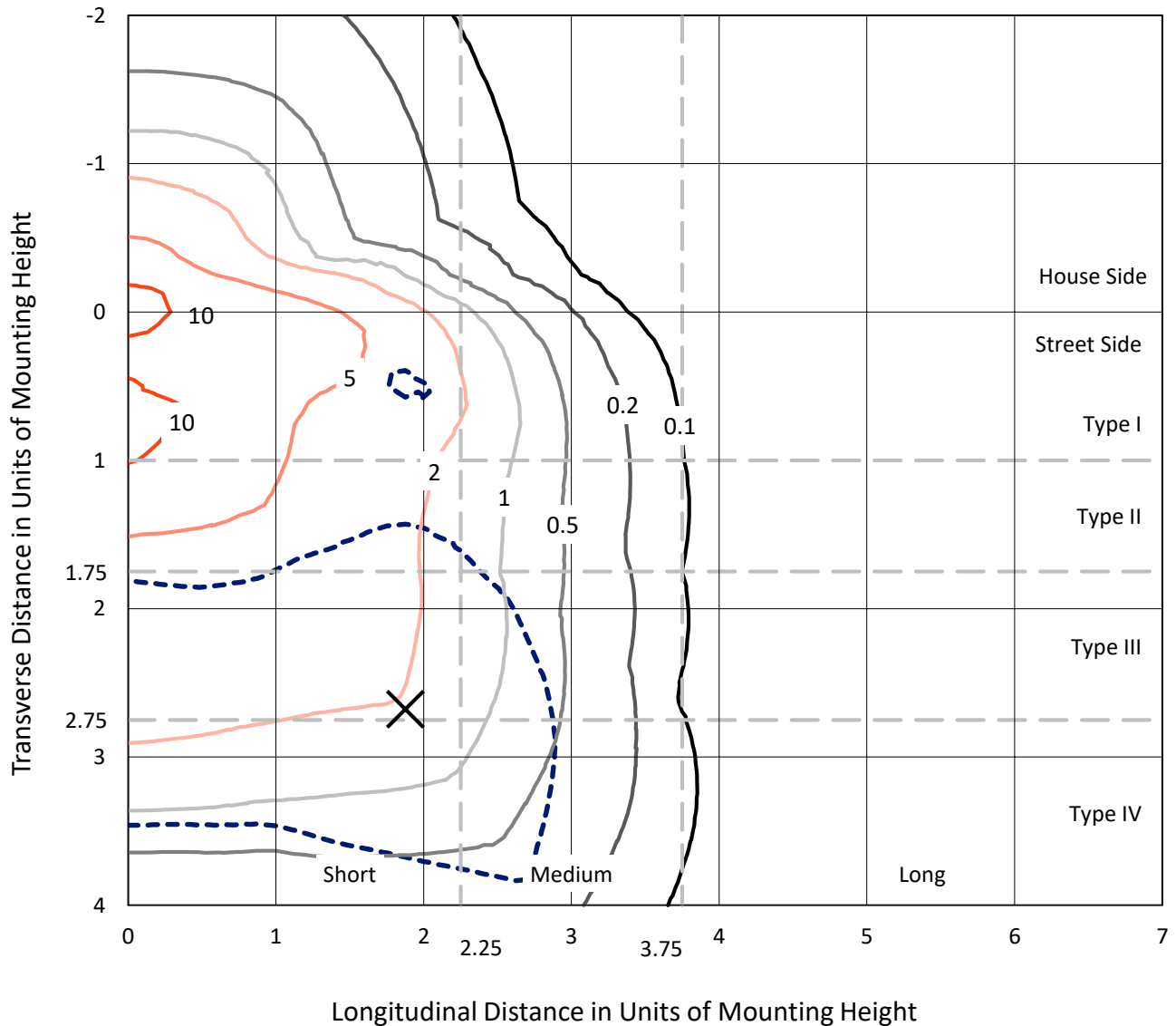
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

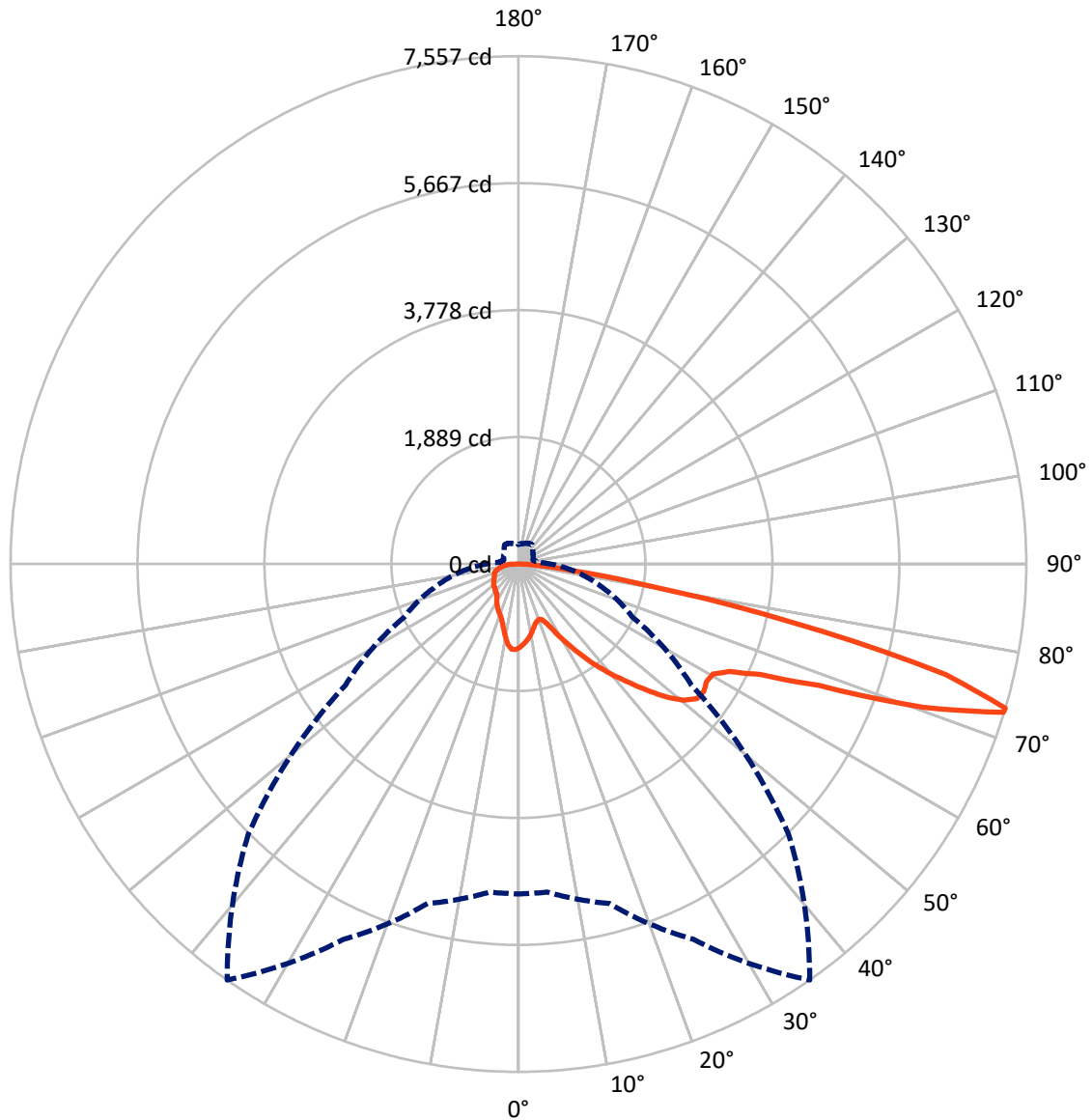
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1574.9   | 0.0    | 1574.9 |
|                    | % Fixture | 19.1     | 0.0    | 19.1   |
| <b>Street Side</b> | Lumens    | 6682.4   | 0.0    | 6682.4 |
|                    | % Fixture | 80.9     | 0.0    | 80.9   |
| <b>Total</b>       | Lumens    | 8257.3   | 0.0    | 8257.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 112.8  | 1.4       |
| 10°-20°   | 281.6  | 3.4       |
| 20°-30°   | 455.2  | 5.5       |
| 30°-40°   | 763.4  | 9.2       |
| 40°-50°   | 1176.7 | 14.3      |
| 50°-60°   | 1578.7 | 19.1      |
| 60°-70°   | 2103.1 | 25.5      |
| 70°-80°   | 1604.0 | 19.4      |
| 80°-90°   | 181.8  | 2.2       |
| 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°    | 8257.3 | 100.0     |
| 0°-180°   | 8257.3 | 100.0     |

**Coefficient of Utilization**



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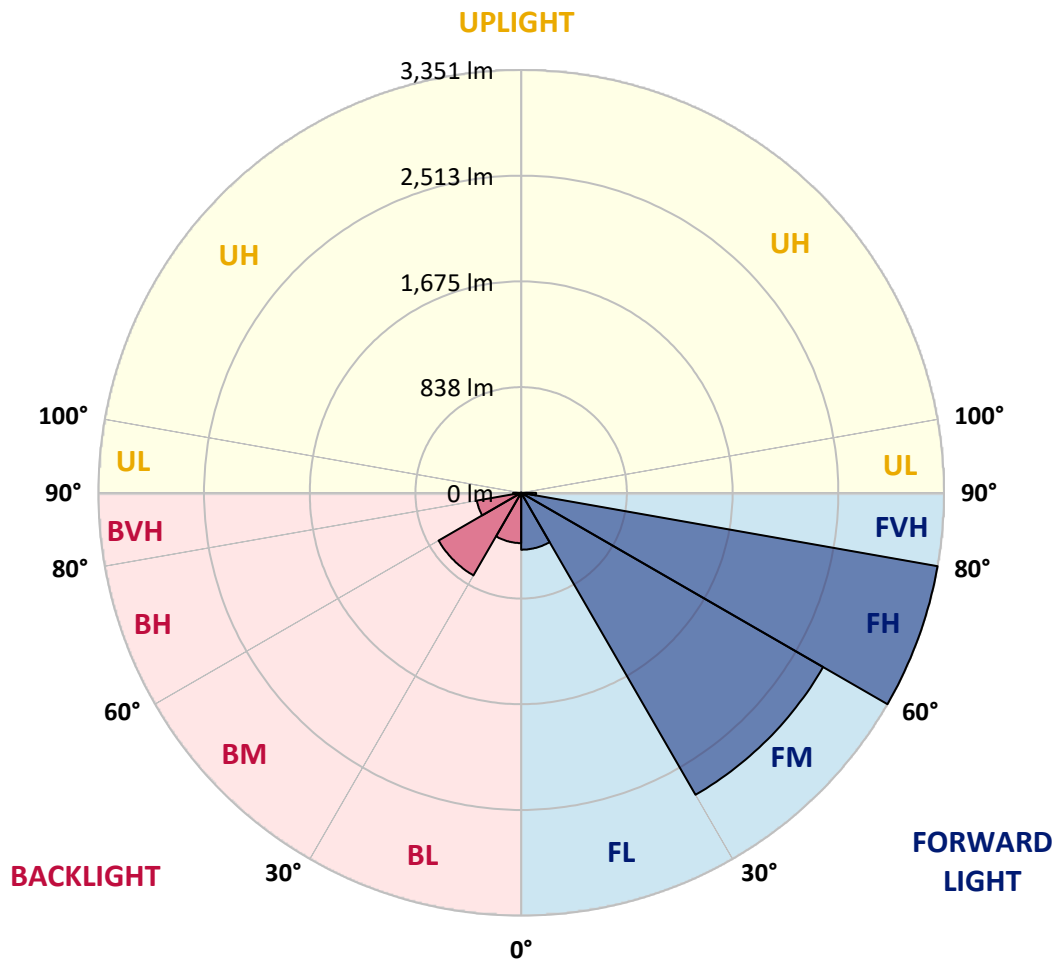
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 451.1  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 2762.9 | 33.5      |                         |      |         |
| FH   | (60°-80°)   | 3350.8 | 40.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 117.5  | 1.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 398.5  | 4.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 755.8  | 9.2       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 356.3  | 4.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 64.3   | 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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1246.3 | 1246.3 | 1246.3 | 1246.3 | 1246.3 | 1246.3 | 1246.3 | 1246.3 | 1246.3 | 1246.3 | 1246.3 |
| 2.5°  | 1197.1 | 1199.5 | 1196.8 | 1200.3 | 1206.3 | 1212.6 | 1216.9 | 1223.2 | 1230.4 | 1240.3 | 1242.7 |
| 5°    | 1140.8 | 1144.4 | 1144.4 | 1150.7 | 1162.2 | 1172.5 | 1182.0 | 1192.4 | 1207.4 | 1224.5 | 1231.2 |
| 7.5°  | 1078.9 | 1081.0 | 1084.5 | 1094.0 | 1110.6 | 1125.3 | 1138.9 | 1155.4 | 1176.1 | 1198.7 | 1210.6 |
| 10°   | 1004.4 | 1007.2 | 1012.7 | 1026.2 | 1048.8 | 1069.0 | 1088.4 | 1111.4 | 1137.6 | 1165.8 | 1180.9 |
| 12.5° | 951.7  | 950.8  | 953.3  | 963.1  | 983.0  | 1007.6 | 1035.7 | 1065.1 | 1097.2 | 1130.1 | 1148.4 |
| 15°   | 933.9  | 929.5  | 920.3  | 918.0  | 928.6  | 953.3  | 985.7  | 1021.8 | 1060.3 | 1100.0 | 1122.6 |
| 17.5° | 944.9  | 937.4  | 912.4  | 894.2  | 892.6  | 911.2  | 945.7  | 986.1  | 1030.5 | 1078.9 | 1107.1 |
| 20°   | 1014.7 | 996.9  | 935.4  | 892.9  | 878.3  | 887.4  | 917.6  | 960.3  | 1012.7 | 1077.0 | 1113.1 |
| 22.5° | 1181.6 | 1155.4 | 1025.0 | 946.1  | 896.5  | 885.5  | 908.1  | 953.6  | 1014.7 | 1101.5 | 1147.5 |
| 25°   | 1424.7 | 1387.4 | 1178.8 | 1078.5 | 976.2  | 917.2  | 922.3  | 969.1  | 1042.9 | 1158.6 | 1214.1 |
| 27.5° | 1616.7 | 1592.4 | 1379.9 | 1265.3 | 1121.4 | 1002.8 | 968.7  | 1008.0 | 1100.4 | 1252.2 | 1309.0 |
| 30°   | 1730.8 | 1716.2 | 1594.8 | 1477.0 | 1306.5 | 1139.3 | 1057.5 | 1081.0 | 1190.4 | 1381.9 | 1428.7 |
| 32.5° | 1863.3 | 1854.5 | 1795.1 | 1686.8 | 1506.4 | 1318.5 | 1198.3 | 1190.0 | 1310.9 | 1537.7 | 1559.2 |
| 35°   | 2000.5 | 1997.7 | 1962.8 | 1885.1 | 1720.9 | 1554.8 | 1385.1 | 1328.7 | 1442.2 | 1699.5 | 1686.0 |
| 37.5° | 2128.1 | 2123.3 | 2103.2 | 2058.0 | 1945.3 | 1808.6 | 1575.3 | 1471.1 | 1583.7 | 1854.1 | 1794.3 |
| 40°   | 2363.3 | 2326.0 | 2256.6 | 2222.6 | 2172.1 | 2022.3 | 1726.4 | 1604.0 | 1730.4 | 2001.6 | 1887.9 |
| 42.5° | 2650.0 | 2589.3 | 2460.0 | 2413.2 | 2406.1 | 2190.8 | 1829.5 | 1732.8 | 1878.3 | 2148.0 | 1979.8 |
| 45°   | 2875.6 | 2818.5 | 2707.0 | 2648.0 | 2674.2 | 2343.5 | 1933.1 | 1870.4 | 2030.6 | 2301.4 | 2074.6 |
| 47.5° | 3116.3 | 3026.7 | 2879.2 | 2897.0 | 2954.1 | 2487.8 | 2038.5 | 2018.3 | 2197.5 | 2473.1 | 2192.4 |
| 50°   | 3125.0 | 3056.4 | 2991.8 | 3098.4 | 3187.3 | 2620.6 | 2170.6 | 2173.4 | 2401.8 | 2689.2 | 2349.0 |
| 52.5° | 2943.8 | 2929.1 | 3031.8 | 3199.6 | 3327.7 | 2725.8 | 2320.9 | 2333.6 | 2663.0 | 2937.4 | 2521.1 |
| 55°   | 2880.3 | 2863.8 | 2982.3 | 3164.3 | 3346.7 | 2812.5 | 2483.8 | 2506.8 | 2979.1 | 3199.2 | 2688.8 |
| 57.5° | 3035.0 | 2998.2 | 3006.0 | 3147.6 | 3300.2 | 2907.7 | 2661.5 | 2707.9 | 3322.4 | 3427.9 | 2796.6 |
| 60°   | 3467.2 | 3388.3 | 3238.5 | 3234.9 | 3325.3 | 3050.4 | 2866.9 | 2923.6 | 3679.3 | 3537.4 | 2754.7 |
| 62.5° | 4073.5 | 3994.6 | 3713.8 | 3531.0 | 3517.6 | 3286.0 | 3119.1 | 3134.1 | 3885.6 | 3389.1 | 2498.1 |
| 65°   | 4729.7 | 4659.1 | 4345.5 | 4087.4 | 3962.9 | 3676.2 | 3412.1 | 3228.1 | 3818.2 | 2981.1 | 2049.3 |
| 67.5° | 5526.4 | 5450.6 | 5181.0 | 4942.7 | 4822.9 | 4305.9 | 3617.9 | 3138.1 | 3390.3 | 2309.3 | 1473.0 |
| 70°   | 6083.5 | 6006.2 | 5899.9 | 6093.0 | 6386.1 | 5214.3 | 3644.5 | 2772.1 | 2532.2 | 1534.9 | 886.6  |
| 72.5° | 5356.7 | 5320.6 | 5514.4 | 6327.8 | 7548.3 | 5765.5 | 3294.3 | 2018.3 | 1470.7 | 814.9  | 513.1  |
| 73°   | 4907.8 | 4899.8 | 5230.6 | 6163.2 | 7556.5 | 5680.7 | 3140.9 | 1876.0 | 1261.3 | 720.9  | 469.1  |
| 75°   | 2216.2 | 2280.1 | 3004.8 | 4707.5 | 6565.3 | 4681.0 | 2210.6 | 1076.1 | 712.6  | 498.1  | 354.1  |
| 77.5° | 532.5  | 554.7  | 940.2  | 2235.6 | 4146.0 | 2789.6 | 1001.6 | 532.1  | 455.6  | 351.7  | 258.5  |
| 80°   | 226.8  | 234.4  | 362.0  | 825.9  | 1952.1 | 1123.4 | 461.6  | 356.5  | 315.3  | 245.4  | 181.2  |
| 82.5° | 126.1  | 134.0  | 205.4  | 374.7  | 787.9  | 383.0  | 281.5  | 248.3  | 207.4  | 147.9  | 117.7  |
| 85°   | 71.4   | 75.7   | 120.2  | 209.4  | 333.9  | 153.9  | 168.5  | 165.0  | 117.0  | 76.1   | 57.9   |
| 87.5° | 33.7   | 36.5   | 57.9   | 97.2   | 130.8  | 60.3   | 85.6   | 94.4   | 73.3   | 46.4   | 30.2   |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1246.3 | 1246.3 | 1246.3 | 1246.3 | 1246.3 | 1246.3 | 1246.3 | 1246.3 | 1246.3 | 1246.3 |
| 2.5°  | 1245.4 | 1252.6 | 1261.0 | 1265.3 | 1269.3 | 1274.0 | 1278.8 | 1278.8 | 1279.6 | 1280.0 |
| 5°    | 1236.7 | 1251.5 | 1264.5 | 1270.1 | 1271.2 | 1271.2 | 1270.1 | 1263.8 | 1258.1 | 1260.6 |
| 7.5°  | 1218.5 | 1239.9 | 1251.1 | 1249.0 | 1234.0 | 1216.5 | 1201.9 | 1184.1 | 1174.9 | 1173.3 |
| 10°   | 1192.4 | 1216.9 | 1218.9 | 1199.1 | 1161.9 | 1124.5 | 1093.6 | 1063.5 | 1049.2 | 1045.7 |
| 12.5° | 1163.4 | 1186.0 | 1173.3 | 1132.5 | 1072.6 | 1018.2 | 979.1  | 948.5  | 935.0  | 931.4  |
| 15°   | 1140.0 | 1155.4 | 1123.4 | 1059.2 | 983.8  | 926.3  | 893.8  | 871.1  | 861.6  | 858.9  |
| 17.5° | 1127.7 | 1130.9 | 1072.2 | 985.4  | 905.3  | 857.3  | 837.1  | 826.3  | 822.8  | 820.8  |
| 20°   | 1133.6 | 1111.4 | 1023.5 | 916.8  | 841.1  | 807.3  | 802.6  | 799.7  | 799.0  | 797.8  |
| 22.5° | 1163.4 | 1105.5 | 978.7  | 851.7  | 784.7  | 770.1  | 774.1  | 773.7  | 772.8  | 772.0  |
| 25°   | 1216.5 | 1110.6 | 935.0  | 789.9  | 737.5  | 734.4  | 741.5  | 741.5  | 738.4  | 738.4  |
| 27.5° | 1286.8 | 1121.4 | 886.2  | 731.2  | 694.7  | 695.1  | 700.6  | 699.1  | 695.5  | 693.2  |
| 30°   | 1372.4 | 1128.1 | 829.1  | 678.4  | 654.7  | 653.1  | 654.7  | 647.9  | 637.2  | 636.4  |
| 32.5° | 1460.0 | 1119.8 | 762.9  | 631.7  | 612.2  | 608.7  | 607.4  | 597.9  | 585.6  | 582.1  |
| 35°   | 1539.3 | 1089.2 | 695.5  | 594.4  | 571.8  | 563.9  | 569.4  | 566.2  | 555.2  | 552.4  |
| 37.5° | 1597.2 | 1032.6 | 634.8  | 561.5  | 542.9  | 540.8  | 544.4  | 545.6  | 532.5  | 529.8  |
| 40°   | 1636.1 | 955.6  | 582.9  | 533.7  | 537.3  | 529.8  | 517.8  | 509.5  | 505.5  | 504.4  |
| 42.5° | 1667.4 | 875.5  | 539.3  | 520.7  | 538.5  | 516.7  | 490.9  | 477.4  | 484.6  | 487.7  |
| 45°   | 1703.5 | 797.4  | 502.8  | 504.4  | 532.5  | 501.6  | 472.3  | 459.2  | 462.0  | 462.8  |
| 47.5° | 1753.0 | 702.3  | 463.5  | 478.2  | 512.7  | 491.3  | 460.7  | 442.1  | 429.0  | 423.1  |
| 50°   | 1821.7 | 589.6  | 422.7  | 448.9  | 493.3  | 483.8  | 442.9  | 423.1  | 399.0  | 393.3  |
| 52.5° | 1869.2 | 484.6  | 389.0  | 424.3  | 475.9  | 468.7  | 428.6  | 402.8  | 377.5  | 372.8  |
| 55°   | 1843.5 | 402.4  | 359.7  | 396.9  | 452.9  | 450.1  | 416.8  | 382.3  | 362.4  | 358.4  |
| 57.5° | 1714.6 | 350.6  | 337.1  | 371.1  | 424.6  | 434.2  | 400.9  | 364.8  | 350.6  | 347.7  |
| 60°   | 1468.8 | 318.0  | 322.7  | 353.7  | 401.7  | 418.3  | 385.0  | 355.3  | 345.8  | 343.8  |
| 62.5° | 1139.6 | 296.2  | 312.1  | 341.1  | 383.8  | 407.2  | 376.3  | 354.1  | 350.6  | 348.1  |
| 65°   | 816.4  | 278.8  | 300.5  | 328.4  | 367.5  | 396.9  | 373.2  | 352.5  | 353.3  | 351.3  |
| 67.5° | 554.7  | 263.3  | 286.7  | 314.0  | 351.7  | 387.8  | 368.8  | 347.0  | 356.9  | 354.5  |
| 70°   | 388.2  | 248.3  | 270.5  | 295.8  | 331.8  | 375.1  | 360.8  | 338.6  | 337.9  | 328.4  |
| 72.5° | 302.9  | 228.4  | 248.3  | 270.5  | 306.5  | 357.3  | 344.9  | 320.0  | 306.9  | 297.0  |
| 73°   | 289.1  | 223.6  | 242.6  | 264.8  | 301.0  | 352.9  | 340.6  | 314.9  | 300.1  | 291.0  |
| 75°   | 239.1  | 203.1  | 220.4  | 240.3  | 277.2  | 332.3  | 319.2  | 291.4  | 272.8  | 267.3  |
| 77.5° | 187.9  | 173.7  | 190.4  | 208.2  | 244.3  | 302.2  | 287.4  | 261.0  | 250.6  | 245.8  |
| 80°   | 139.2  | 143.9  | 158.7  | 174.5  | 211.8  | 270.1  | 257.0  | 230.4  | 276.4  | 264.8  |
| 82.5° | 97.9   | 109.0  | 122.5  | 136.8  | 177.7  | 238.8  | 222.8  | 195.5  | 202.2  | 168.2  |
| 85°   | 57.9   | 71.4   | 84.1   | 96.4   | 128.1  | 197.8  | 184.0  | 155.8  | 127.7  | 121.7  |
| 87.5° | 33.7   | 39.7   | 43.3   | 56.0   | 88.1   | 149.0  | 129.7  | 115.4  | 66.2   | 44.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)