

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: P654225

Luminaire Tested: **GLAN-SA2B-840-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P654225  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2B-840-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9678.2 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

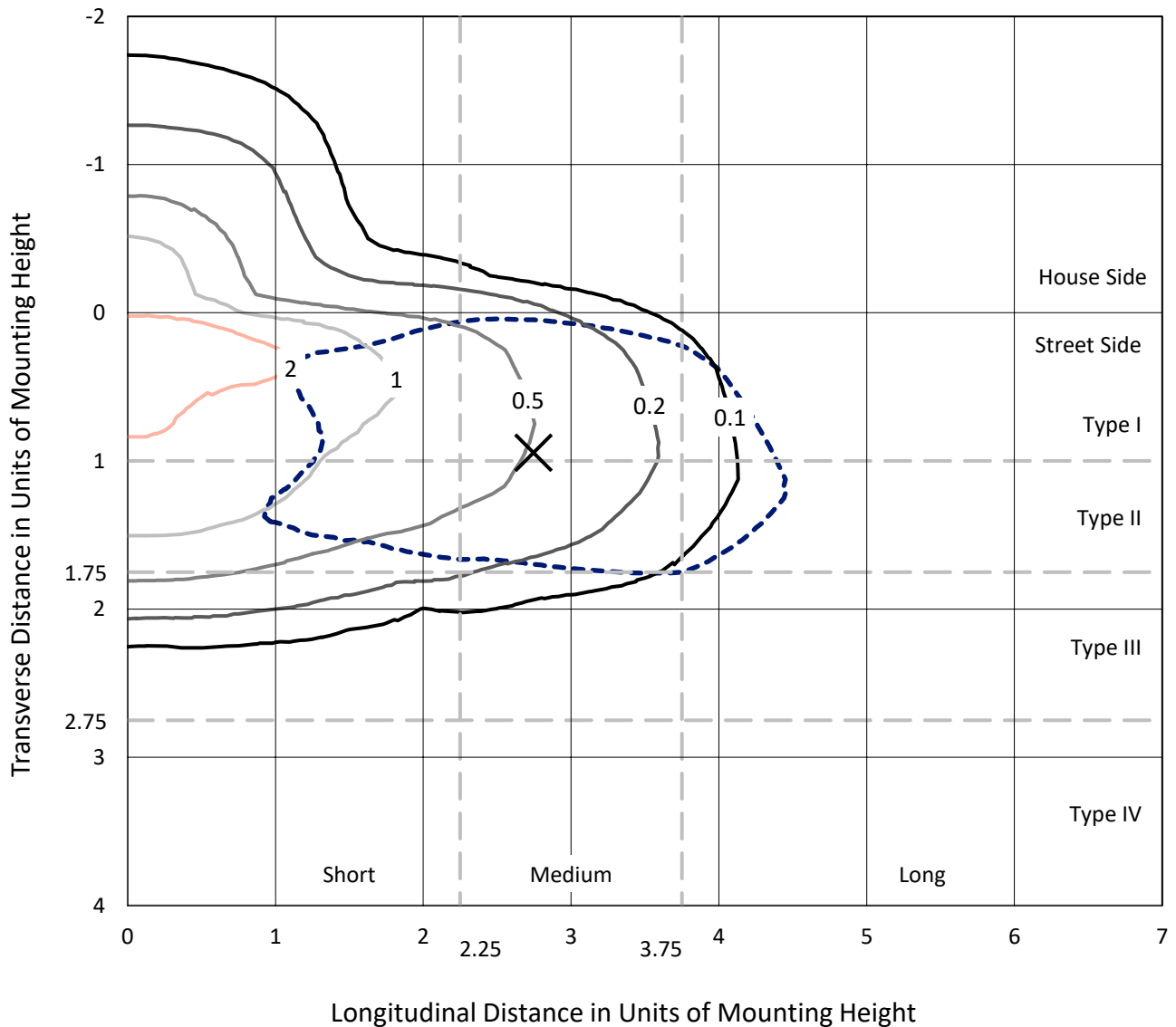
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

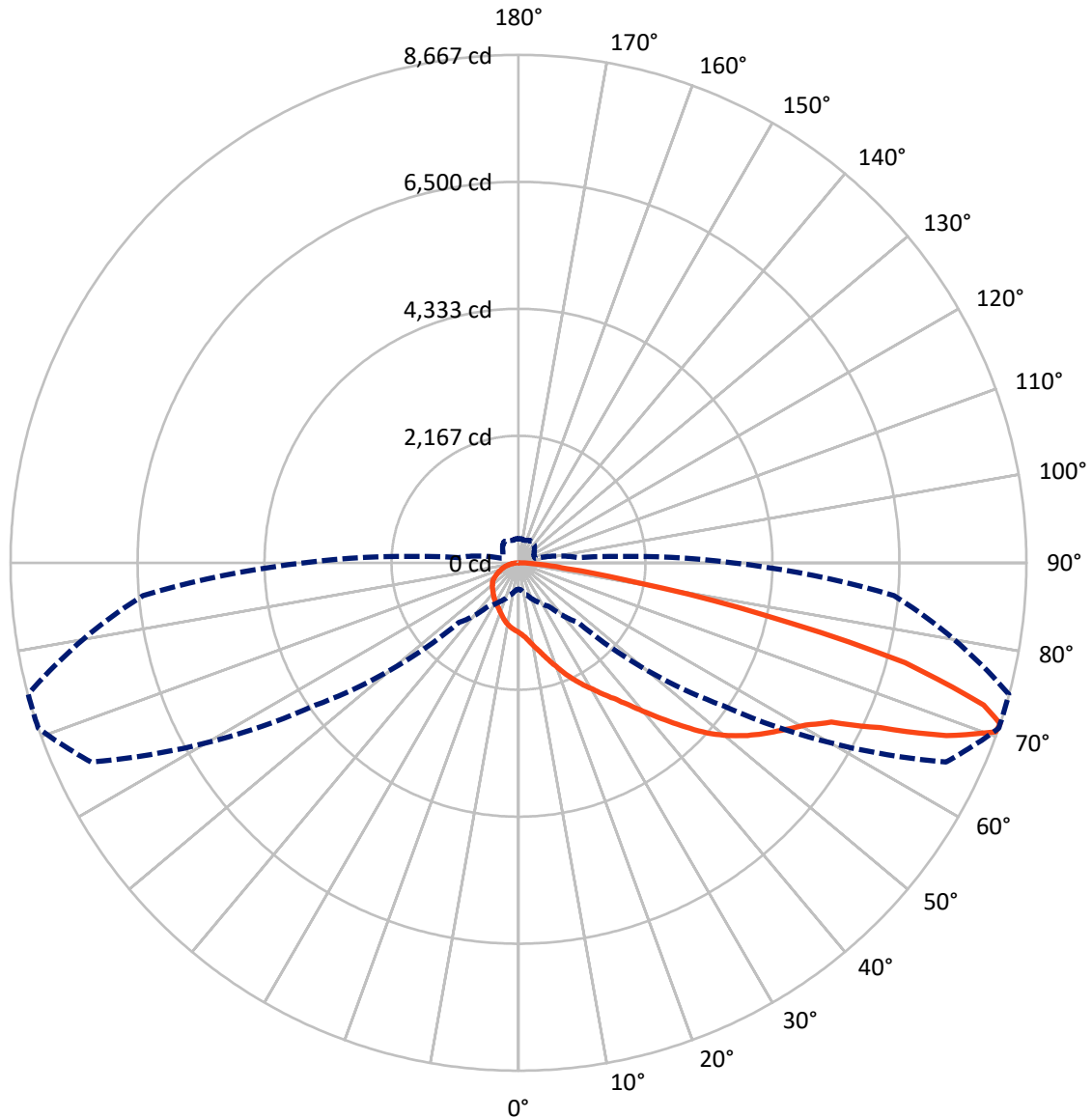
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1740.6   | 0.0    | 1740.6 |
|                    | % Fixture | 18.0     | 0.0    | 18.0   |
| <b>Street Side</b> | Lumens    | 7937.6   | 0.0    | 7937.6 |
|                    | % Fixture | 82.0     | 0.0    | 82.0   |
| <b>Total</b>       | Lumens    | 9678.2   | 0.0    | 9678.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 119.3  | 1.2       |
| 10°-20°   | 387.5  | 4.0       |
| 20°-30°   | 677.2  | 7.0       |
| 30°-40°   | 1007.2 | 10.4      |
| 40°-50°   | 1483.9 | 15.3      |
| 50°-60°   | 2077.6 | 21.5      |
| 60°-70°   | 2323.7 | 24.0      |
| 70°-80°   | 1419.4 | 14.7      |
| 80°-90°   | 182.6  | 1.9       |
| 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°    | 9678.2 | 100.0     |
| 0°-180°   | 9678.2 | 100.0     |

**Coefficient of Utilization**

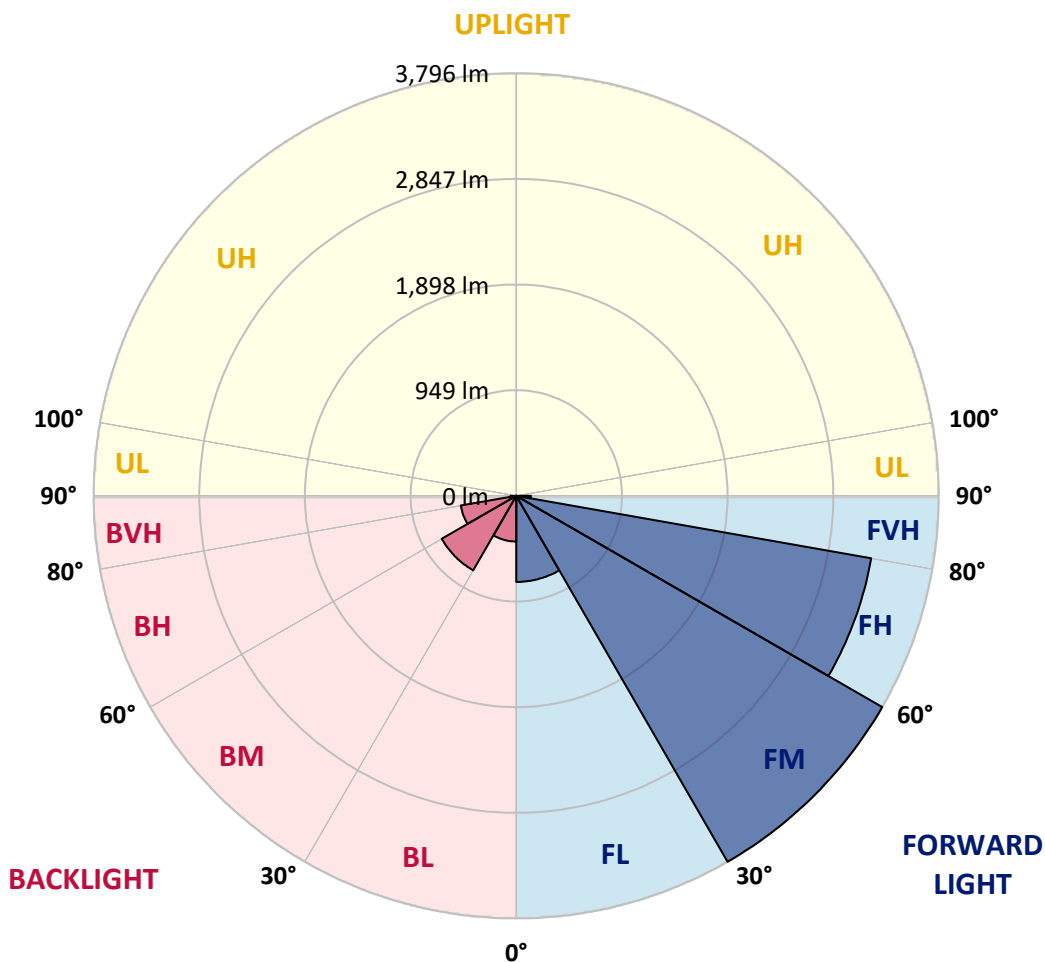


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 773.3  | 8.0       |                         |      |         |
| FM (30°-60°)   | 3795.6 | 39.2      |                         |      |         |
| FH (60°-80°)   | 3237.3 | 33.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 131.4  | 1.4       |                         |      | G2/225  |
| BL (0°-30°)    | 410.6  | 4.2       | B1/500                  |      |         |
| BM (30°-60°)   | 773.1  | 8.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 505.7  | 5.2       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 51.2   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 71°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1187.8 | 1187.8 | 1187.8 | 1187.8 | 1187.8 | 1187.8 | 1187.8 | 1187.8 | 1187.8 | 1187.8 | 1187.8 |
| 2.5°  | 1318.7 | 1312.3 | 1312.8 | 1303.8 | 1292.1 | 1279.3 | 1261.2 | 1245.3 | 1232.5 | 1225.1 | 1203.2 |
| 5°    | 1461.2 | 1454.8 | 1446.9 | 1427.2 | 1418.7 | 1387.3 | 1347.4 | 1311.2 | 1283.5 | 1268.1 | 1224.5 |
| 7.5°  | 1576.6 | 1575.0 | 1572.9 | 1561.7 | 1540.0 | 1496.3 | 1462.3 | 1399.5 | 1358.6 | 1329.3 | 1254.9 |
| 10°   | 1647.9 | 1650.6 | 1652.2 | 1654.3 | 1645.2 | 1622.4 | 1575.6 | 1496.3 | 1444.2 | 1407.0 | 1294.2 |
| 12.5° | 1684.1 | 1686.8 | 1695.8 | 1715.5 | 1727.8 | 1725.1 | 1686.8 | 1609.1 | 1537.3 | 1488.3 | 1336.2 |
| 15°   | 1706.5 | 1710.7 | 1726.7 | 1752.7 | 1793.7 | 1819.8 | 1801.2 | 1729.3 | 1650.6 | 1592.6 | 1386.2 |
| 17.5° | 1730.9 | 1735.7 | 1753.2 | 1790.5 | 1844.2 | 1900.6 | 1920.8 | 1859.1 | 1773.5 | 1704.3 | 1442.1 |
| 20°   | 1744.7 | 1751.1 | 1776.1 | 1825.1 | 1887.9 | 1969.8 | 2036.8 | 2004.4 | 1910.8 | 1834.1 | 1506.4 |
| 22.5° | 1767.1 | 1772.4 | 1793.7 | 1845.8 | 1920.8 | 2023.4 | 2152.7 | 2145.8 | 2063.4 | 1964.4 | 1577.2 |
| 25°   | 1827.7 | 1836.2 | 1846.9 | 1878.3 | 1950.6 | 2078.3 | 2249.0 | 2296.9 | 2211.2 | 2100.6 | 1642.1 |
| 27.5° | 1942.1 | 1949.0 | 1948.5 | 1952.7 | 1993.7 | 2125.6 | 2332.5 | 2446.4 | 2358.1 | 2238.4 | 1704.9 |
| 30°   | 2072.4 | 2075.1 | 2077.2 | 2067.6 | 2076.7 | 2174.0 | 2409.1 | 2594.2 | 2505.9 | 2379.9 | 1759.6 |
| 32.5° | 2230.9 | 2236.2 | 2218.1 | 2193.7 | 2186.3 | 2245.8 | 2472.5 | 2742.2 | 2680.9 | 2523.5 | 1813.9 |
| 35°   | 2418.2 | 2432.0 | 2395.3 | 2352.2 | 2321.9 | 2349.0 | 2557.6 | 2893.2 | 2860.2 | 2707.0 | 1885.7 |
| 37.5° | 2632.0 | 2649.1 | 2615.0 | 2530.4 | 2487.3 | 2494.7 | 2668.7 | 3079.9 | 3086.8 | 2916.1 | 1992.7 |
| 40°   | 2807.0 | 2829.4 | 2830.5 | 2710.7 | 2645.3 | 2653.9 | 2809.7 | 3281.0 | 3360.2 | 3174.6 | 2118.7 |
| 42.5° | 2922.5 | 2944.3 | 2967.1 | 2896.9 | 2828.3 | 2876.7 | 2974.0 | 3499.1 | 3667.7 | 3488.5 | 2294.8 |
| 45°   | 3049.0 | 3068.7 | 3081.5 | 3049.6 | 3011.3 | 3136.8 | 3172.5 | 3731.0 | 3995.3 | 3839.0 | 2487.3 |
| 47.5° | 3195.9 | 3217.7 | 3229.9 | 3199.6 | 3185.2 | 3365.0 | 3386.3 | 3947.5 | 4345.4 | 4179.4 | 2700.1 |
| 50°   | 3391.6 | 3408.1 | 3401.8 | 3382.6 | 3379.4 | 3540.0 | 3591.7 | 4150.2 | 4634.2 | 4545.9 | 2920.9 |
| 52.5° | 3635.2 | 3654.9 | 3661.9 | 3634.7 | 3622.4 | 3665.0 | 3757.1 | 4334.8 | 4897.0 | 4860.8 | 3156.5 |
| 55°   | 3782.6 | 3813.9 | 3919.3 | 3961.9 | 3991.1 | 3826.7 | 3935.3 | 4538.5 | 5132.6 | 5192.8 | 3409.7 |
| 57.5° | 3593.8 | 3634.2 | 3869.9 | 4082.6 | 4357.6 | 4231.0 | 4187.9 | 4751.2 | 5368.3 | 5514.6 | 3712.9 |
| 60°   | 3133.1 | 3142.1 | 3445.9 | 3837.9 | 4391.1 | 4750.7 | 4715.1 | 5089.6 | 5623.6 | 5839.1 | 4112.4 |
| 62.5° | 2173.5 | 2192.7 | 2551.7 | 3177.2 | 3977.3 | 4937.9 | 5611.9 | 5673.6 | 5989.6 | 6324.7 | 4698.1 |
| 65°   | 1120.8 | 1095.8 | 1422.9 | 1996.9 | 2998.5 | 4493.3 | 6338.5 | 6747.6 | 6783.3 | 7084.3 | 5522.5 |
| 67.5° | 690.0  | 701.1  | 854.3  | 1166.0 | 1772.9 | 3265.5 | 6262.5 | 8059.9 | 7872.1 | 8016.8 | 6288.0 |
| 70°   | 518.1  | 531.9  | 637.2  | 797.9  | 1080.9 | 1867.1 | 5036.3 | 8378.0 | 8640.3 | 8603.0 | 6521.0 |
| 71°   | 450.5  | 464.9  | 574.5  | 726.1  | 908.0  | 1441.1 | 4243.3 | 8045.0 | 8666.8 | 8660.4 | 6433.2 |
| 72.5° | 384.1  | 393.1  | 478.8  | 614.9  | 765.5  | 1010.1 | 3187.9 | 7215.2 | 8297.1 | 8509.4 | 6120.0 |
| 75°   | 301.6  | 308.6  | 346.8  | 469.2  | 602.7  | 620.2  | 1710.7 | 5409.2 | 6814.6 | 7218.9 | 5094.9 |
| 77.5° | 245.7  | 250.5  | 270.2  | 348.4  | 464.9  | 439.3  | 897.3  | 3520.8 | 4269.3 | 4676.2 | 3001.2 |
| 80°   | 195.2  | 200.6  | 212.3  | 236.2  | 348.4  | 313.3  | 428.2  | 1784.1 | 2062.3 | 2058.1 | 1197.9 |
| 82.5° | 151.6  | 153.2  | 167.0  | 173.4  | 238.3  | 222.4  | 231.9  | 755.4  | 836.7  | 864.4  | 432.4  |
| 85°   | 95.8   | 100.5  | 147.8  | 133.0  | 142.5  | 130.4  | 114.4  | 300.0  | 369.7  | 364.4  | 172.9  |
| 87.5° | 29.3   | 30.9   | 50.0   | 56.3   | 63.3   | 56.9   | 42.0   | 88.3   | 108.0  | 117.1  | 43.1   |
| 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°    | 1187.8 | 1187.8 | 1187.8 | 1187.8 | 1187.8 | 1187.8 | 1187.8 | 1187.8 | 1187.8 | 1187.8 | 1187.8 |
| 2.5°  | 1194.7 | 1188.8 | 1168.1 | 1151.1 | 1135.2 | 1117.6 | 1102.7 | 1098.4 | 1094.7 | 1093.1 | 1092.6 |
| 5°    | 1205.9 | 1188.3 | 1147.4 | 1113.9 | 1087.2 | 1062.8 | 1047.4 | 1040.5 | 1033.6 | 1033.6 | 1035.7 |
| 7.5°  | 1221.9 | 1189.9 | 1126.6 | 1076.6 | 1043.1 | 1020.2 | 1009.1 | 1008.0 | 1009.6 | 1011.2 | 1011.7 |
| 10°   | 1239.4 | 1188.8 | 1096.3 | 1034.1 | 1004.3 | 993.6  | 994.1  | 1003.2 | 1011.7 | 1018.1 | 1019.2 |
| 12.5° | 1256.5 | 1182.5 | 1060.7 | 994.1  | 975.1  | 977.2  | 992.0  | 1012.3 | 1028.8 | 1037.8 | 1038.3 |
| 15°   | 1275.5 | 1172.4 | 1017.6 | 956.4  | 950.1  | 966.6  | 994.1  | 1025.0 | 1050.1 | 1065.0 | 1066.6 |
| 17.5° | 1291.5 | 1155.4 | 972.4  | 919.7  | 927.7  | 958.0  | 996.3  | 1036.2 | 1066.6 | 1085.1 | 1088.3 |
| 20°   | 1309.6 | 1133.6 | 925.6  | 884.6  | 907.5  | 948.5  | 992.0  | 1035.2 | 1066.6 | 1084.6 | 1088.8 |
| 22.5° | 1324.0 | 1102.7 | 880.9  | 855.9  | 889.4  | 936.7  | 977.7  | 1012.3 | 1037.8 | 1047.4 | 1053.8 |
| 25°   | 1329.9 | 1063.9 | 838.9  | 832.5  | 875.1  | 917.6  | 945.3  | 965.0  | 972.9  | 971.9  | 974.5  |
| 27.5° | 1326.7 | 1019.2 | 802.7  | 813.8  | 857.0  | 887.8  | 901.6  | 900.0  | 885.7  | 872.4  | 878.8  |
| 30°   | 1313.4 | 966.0  | 772.4  | 794.7  | 833.5  | 850.6  | 848.4  | 827.7  | 800.5  | 775.6  | 777.2  |
| 32.5° | 1289.4 | 908.5  | 744.2  | 772.9  | 800.5  | 808.0  | 793.7  | 766.5  | 727.7  | 695.3  | 690.5  |
| 35°   | 1269.2 | 853.8  | 719.1  | 747.9  | 767.6  | 763.9  | 750.0  | 714.9  | 679.8  | 651.1  | 646.3  |
| 37.5° | 1266.0 | 806.9  | 695.3  | 719.7  | 730.9  | 725.5  | 708.5  | 678.8  | 666.0  | 644.2  | 641.5  |
| 40°   | 1283.0 | 774.0  | 670.8  | 690.0  | 695.3  | 691.0  | 672.4  | 655.3  | 667.1  | 661.7  | 661.7  |
| 42.5° | 1329.3 | 756.4  | 649.0  | 660.1  | 664.4  | 667.6  | 654.3  | 639.9  | 654.3  | 629.8  | 621.8  |
| 45°   | 1402.7 | 757.0  | 629.3  | 630.8  | 643.6  | 654.8  | 645.8  | 624.5  | 617.0  | 568.1  | 558.5  |
| 47.5° | 1510.7 | 775.1  | 613.3  | 603.2  | 626.1  | 644.7  | 631.9  | 601.1  | 568.1  | 535.6  | 529.8  |
| 50°   | 1636.8 | 807.4  | 599.0  | 574.5  | 602.7  | 631.9  | 622.3  | 586.2  | 552.1  | 532.4  | 528.7  |
| 52.5° | 1776.7 | 848.4  | 581.4  | 542.6  | 574.0  | 626.1  | 624.5  | 584.1  | 537.2  | 523.9  | 520.7  |
| 55°   | 1949.5 | 888.9  | 559.6  | 505.4  | 548.4  | 621.3  | 618.6  | 566.5  | 534.0  | 524.4  | 523.4  |
| 57.5° | 2150.6 | 947.4  | 528.2  | 467.6  | 519.1  | 601.7  | 595.8  | 555.9  | 523.4  | 516.5  | 516.0  |
| 60°   | 2474.6 | 1038.3 | 483.5  | 433.0  | 489.4  | 567.0  | 574.5  | 537.8  | 506.4  | 504.8  | 504.3  |
| 62.5° | 2900.6 | 1166.0 | 437.2  | 397.4  | 454.8  | 522.3  | 543.6  | 513.3  | 488.3  | 496.3  | 497.4  |
| 65°   | 3489.0 | 1273.4 | 389.4  | 367.0  | 416.5  | 479.3  | 514.4  | 490.5  | 468.1  | 483.5  | 483.5  |
| 67.5° | 3872.5 | 1275.5 | 345.7  | 335.6  | 377.7  | 443.1  | 483.5  | 463.3  | 442.0  | 468.1  | 469.2  |
| 70°   | 3792.7 | 1117.6 | 309.6  | 302.7  | 339.9  | 404.3  | 449.5  | 433.5  | 409.1  | 432.4  | 423.9  |
| 71°   | 3664.0 | 1029.8 | 295.2  | 289.9  | 325.0  | 385.7  | 433.5  | 420.2  | 395.8  | 411.2  | 406.4  |
| 72.5° | 3458.6 | 894.2  | 271.8  | 272.9  | 302.7  | 362.2  | 411.2  | 397.4  | 372.9  | 381.4  | 379.8  |
| 75°   | 2923.5 | 780.9  | 232.5  | 237.2  | 260.1  | 322.4  | 366.5  | 355.8  | 330.8  | 330.8  | 329.3  |
| 77.5° | 1827.7 | 545.7  | 193.1  | 195.8  | 220.8  | 276.1  | 314.9  | 305.9  | 281.9  | 273.9  | 271.8  |
| 80°   | 682.0  | 281.9  | 151.0  | 154.2  | 169.7  | 217.6  | 260.6  | 252.1  | 227.7  | 218.7  | 210.1  |
| 82.5° | 258.0  | 141.5  | 111.2  | 108.5  | 125.0  | 165.9  | 204.3  | 194.2  | 175.0  | 153.2  | 146.8  |
| 85°   | 97.3   | 70.2   | 68.1   | 65.9   | 73.4   | 98.4   | 126.6  | 124.5  | 104.3  | 88.8   | 87.2   |
| 87.5° | 25.6   | 22.9   | 26.6   | 19.7   | 20.8   | 18.6   | 19.2   | 8.0    | 3.7    | 1.6    | 1.1    |
| 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)