

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: P451776

Luminaire Tested: **GLAN-SA2C-830-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451776  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2C-830-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11450 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

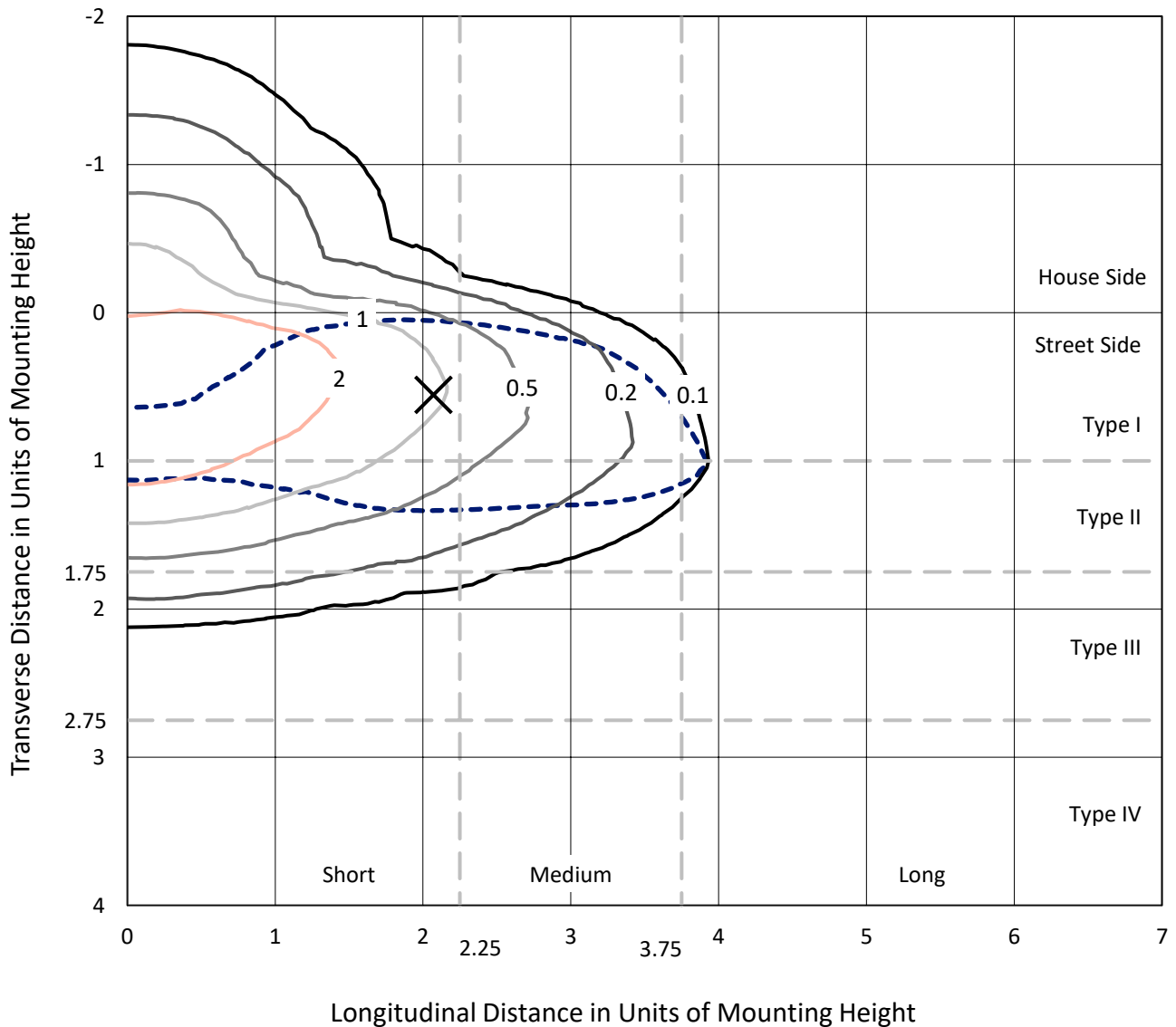
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

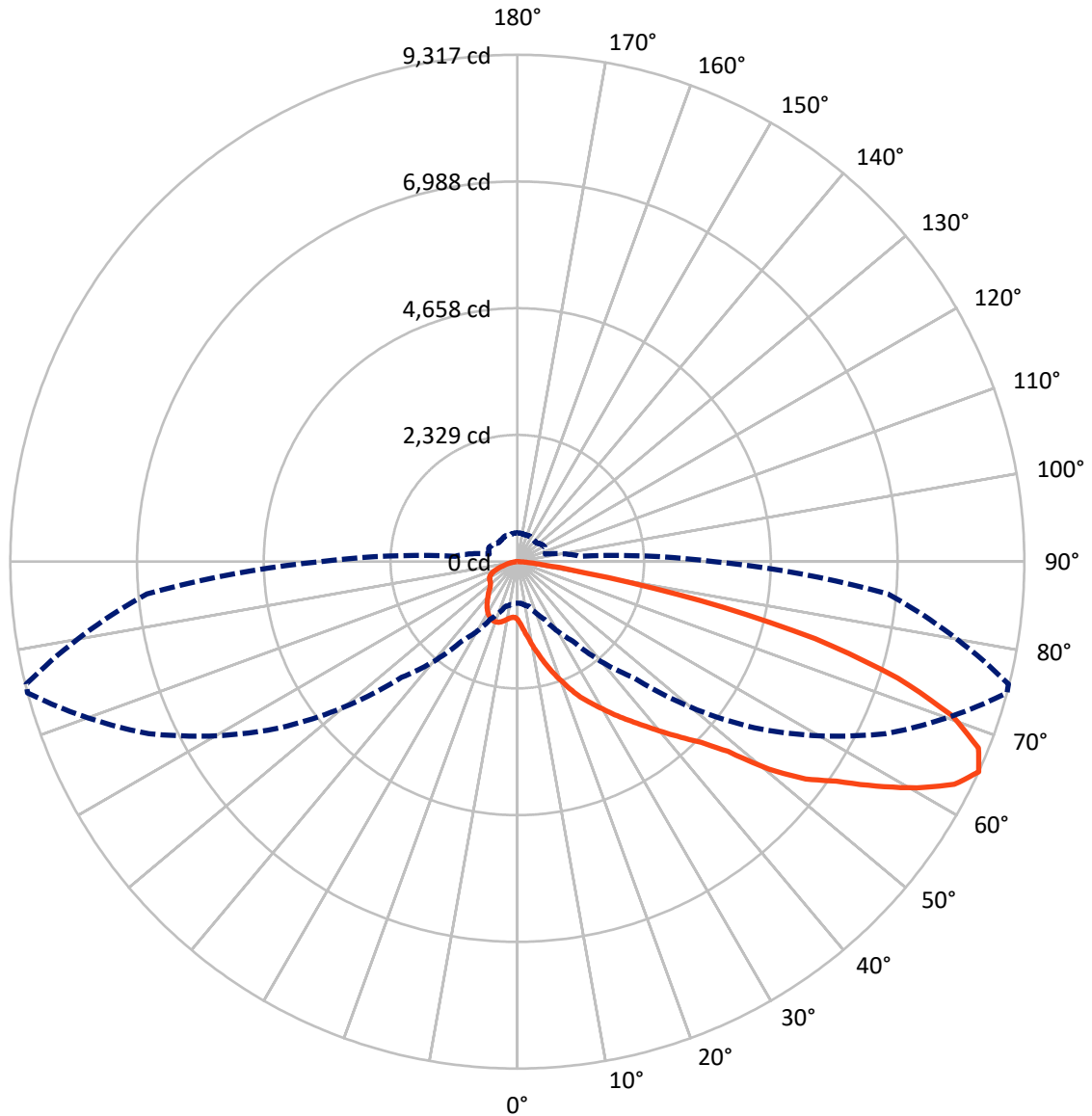
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1924.9   | 0.0    | 1924.9  |
|                    | % Fixture | 16.8     | 0.0    | 16.8    |
| <b>Street Side</b> | Lumens    | 9525.1   | 0.0    | 9525.1  |
|                    | % Fixture | 83.2     | 0.0    | 83.2    |
| <b>Total</b>       | Lumens    | 11450.0  | 0.0    | 11450.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 129.3   | 1.1       |
| 10°-20°   | 506.3   | 4.4       |
| 20°-30°   | 977.9   | 8.5       |
| 30°-40°   | 1588.5  | 13.9      |
| 40°-50°   | 2185.1  | 19.1      |
| 50°-60°   | 2579.9  | 22.5      |
| 60°-70°   | 2260.4  | 19.7      |
| 70°-80°   | 1079.1  | 9.4       |
| 80°-90°   | 143.6   | 1.3       |
| 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°    | 11450.0 | 100.0     |
| 0°-180°   | 11450.0 | 100.0     |

**Coefficient of Utilization**



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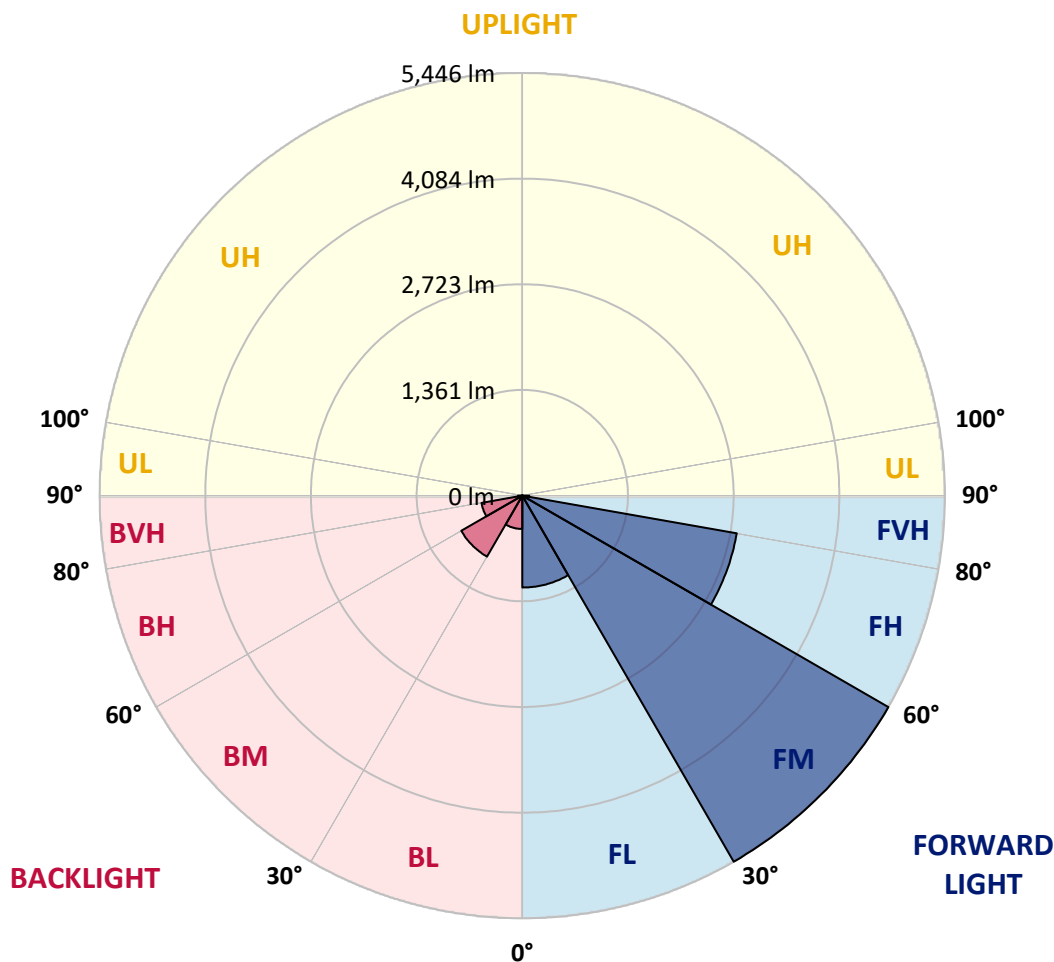
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1183.7 | 10.3      |                         |      |         |
| FM (30°-60°)   | 5445.9 | 47.6      |                         |      |         |
| FH (60°-80°)   | 2805.8 | 24.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 89.7   | 0.8       |                         |      | G1/100  |
| BL (0°-30°)    | 429.7  | 3.8       | B1/500                  |      |         |
| BM (30°-60°)   | 907.6  | 7.9       | B1/1000                 |      |         |
| BH (60°-80°)   | 533.7  | 4.7       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 53.9   | 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1063.8 | 1063.8 | 1063.8 | 1063.8 | 1063.8 | 1063.8 | 1063.8 | 1063.8 | 1063.8 | 1063.8 | 1063.8 |
| 2.5°  | 1413.5 | 1404.2 | 1394.2 | 1366.9 | 1337.7 | 1304.8 | 1257.6 | 1212.3 | 1152.0 | 1150.2 | 1105.5 |
| 5°    | 1805.4 | 1799.2 | 1755.1 | 1729.6 | 1661.9 | 1571.9 | 1495.5 | 1376.9 | 1266.9 | 1253.9 | 1166.9 |
| 7.5°  | 2165.6 | 2141.4 | 2124.6 | 2078.6 | 2011.6 | 1896.0 | 1748.2 | 1588.0 | 1404.2 | 1386.8 | 1242.7 |
| 10°   | 2437.0 | 2434.5 | 2425.8 | 2386.1 | 2335.7 | 2220.9 | 2056.9 | 1827.1 | 1578.1 | 1543.9 | 1334.6 |
| 12.5° | 2640.1 | 2641.9 | 2640.7 | 2640.1 | 2604.0 | 2506.5 | 2328.9 | 2086.7 | 1753.8 | 1729.6 | 1440.8 |
| 15°   | 2773.6 | 2792.2 | 2799.7 | 2830.7 | 2833.8 | 2768.6 | 2615.8 | 2337.6 | 1951.9 | 1915.9 | 1555.1 |
| 17.5° | 2861.8 | 2871.1 | 2905.9 | 2958.7 | 3001.5 | 2989.7 | 2853.7 | 2569.9 | 2154.4 | 2094.2 | 1673.7 |
| 20°   | 2946.2 | 2962.4 | 2989.1 | 3061.1 | 3136.9 | 3171.7 | 3076.0 | 2807.7 | 2355.0 | 2316.5 | 1804.8 |
| 22.5° | 3122.0 | 3145.0 | 3154.3 | 3190.9 | 3255.5 | 3317.0 | 3273.5 | 3035.7 | 2574.9 | 2522.7 | 1943.9 |
| 25°   | 3419.5 | 3443.7 | 3417.6 | 3408.9 | 3430.0 | 3460.5 | 3451.1 | 3250.5 | 2782.3 | 2707.8 | 2075.5 |
| 27.5° | 3807.0 | 3810.1 | 3759.2 | 3710.7 | 3658.6 | 3643.0 | 3614.5 | 3441.2 | 2962.4 | 2900.3 | 2207.8 |
| 30°   | 4223.1 | 4208.2 | 4123.7 | 4036.2 | 3948.0 | 3861.0 | 3779.1 | 3625.0 | 3163.0 | 3091.6 | 2337.6 |
| 32.5° | 4609.4 | 4601.3 | 4507.5 | 4371.5 | 4222.5 | 4140.5 | 3974.7 | 3810.7 | 3377.9 | 3308.9 | 2471.1 |
| 35°   | 4898.8 | 4910.6 | 4807.5 | 4659.1 | 4496.4 | 4423.7 | 4214.4 | 4005.7 | 3600.2 | 3525.0 | 2616.5 |
| 37.5° | 5104.4 | 5098.2 | 5006.9 | 4878.3 | 4735.5 | 4672.1 | 4494.5 | 4218.8 | 3839.3 | 3767.3 | 2775.4 |
| 40°   | 5177.6 | 5173.9 | 5106.2 | 5012.5 | 4921.8 | 4899.4 | 4787.6 | 4448.5 | 4113.2 | 4028.7 | 2966.7 |
| 42.5° | 5131.1 | 5139.1 | 5094.4 | 5069.0 | 5052.2 | 5068.3 | 5078.9 | 4749.8 | 4411.9 | 4334.3 | 3174.2 |
| 45°   | 4988.2 | 4983.9 | 4977.7 | 5019.3 | 5113.7 | 5219.9 | 5367.1 | 5034.2 | 4736.7 | 4674.6 | 3452.4 |
| 47.5° | 4733.0 | 4764.0 | 4779.6 | 4894.5 | 5100.6 | 5352.2 | 5698.7 | 5415.5 | 5208.1 | 5154.1 | 3876.6 |
| 50°   | 4375.9 | 4400.7 | 4492.6 | 4697.0 | 5004.4 | 5401.8 | 6022.9 | 6039.0 | 5994.3 | 5893.1 | 4337.4 |
| 52.5° | 3818.2 | 3856.7 | 4046.1 | 4420.6 | 4806.9 | 5381.4 | 6219.1 | 6573.8 | 6632.8 | 6557.0 | 4791.4 |
| 55°   | 3194.0 | 3248.1 | 3448.0 | 3939.3 | 4534.9 | 5269.6 | 6354.5 | 6883.7 | 7119.0 | 7048.9 | 5228.6 |
| 57.5° | 2582.9 | 2640.1 | 2845.6 | 3321.3 | 4060.4 | 5022.4 | 6443.3 | 7229.0 | 7781.1 | 7689.8 | 5772.6 |
| 60°   | 1935.8 | 1995.4 | 2171.8 | 2661.8 | 3384.7 | 4539.2 | 6383.1 | 7528.3 | 8442.5 | 8403.4 | 6317.3 |
| 62.5° | 1248.9 | 1314.8 | 1468.1 | 1873.7 | 2601.6 | 3879.0 | 6060.8 | 7693.5 | 9015.1 | 8967.9 | 6714.7 |
| 65°   | 760.8  | 768.2  | 852.7  | 1163.2 | 1780.5 | 3003.4 | 5323.6 | 7474.3 | 9316.9 | 9302.6 | 6835.8 |
| 67.5° | 491.9  | 503.7  | 542.2  | 696.8  | 1067.6 | 2086.1 | 4256.6 | 6750.8 | 9140.5 | 9135.6 | 6585.6 |
| 70°   | 415.5  | 419.2  | 436.6  | 470.1  | 620.4  | 1265.1 | 2989.1 | 5597.5 | 8470.4 | 8470.4 | 5983.8 |
| 72.5° | 371.4  | 376.4  | 382.6  | 393.1  | 442.8  | 716.7  | 1783.6 | 4357.2 | 7313.4 | 7361.9 | 5093.2 |
| 75°   | 337.2  | 336.0  | 339.7  | 341.6  | 377.6  | 468.3  | 922.3  | 3222.6 | 5657.7 | 5560.8 | 3688.4 |
| 77.5° | 288.8  | 290.6  | 288.8  | 296.9  | 333.5  | 356.5  | 468.3  | 2162.5 | 3428.8 | 3303.3 | 1851.3 |
| 80°   | 237.2  | 240.3  | 243.4  | 248.4  | 285.1  | 270.8  | 281.3  | 985.6  | 1268.2 | 1241.5 | 572.0  |
| 82.5° | 178.2  | 182.6  | 187.6  | 199.4  | 224.2  | 178.9  | 177.6  | 421.1  | 457.7  | 419.2  | 210.5  |
| 85°   | 72.0   | 85.1   | 128.6  | 140.4  | 141.0  | 98.1   | 109.3  | 175.8  | 186.9  | 182.6  | 82.6   |
| 87.5° | 16.8   | 19.9   | 41.6   | 62.7   | 57.8   | 36.6   | 40.4   | 57.1   | 65.2   | 60.2   | 27.9   |
| 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°    | 1063.8 | 1063.8 | 1063.8 | 1063.8 | 1063.8 | 1063.8 | 1063.8 | 1063.8 | 1063.8 | 1063.8 | 1063.8 |
| 2.5°  | 1085.0 | 1063.2 | 1026.0 | 997.4  | 976.9  | 958.9  | 947.7  | 940.9  | 938.4  | 937.8  | 938.4  |
| 5°    | 1121.6 | 1083.1 | 1024.1 | 986.8  | 966.3  | 954.5  | 947.7  | 947.1  | 947.7  | 948.3  | 946.5  |
| 7.5°  | 1171.9 | 1116.6 | 1039.6 | 1004.9 | 989.3  | 980.6  | 977.5  | 976.3  | 976.9  | 976.3  | 976.3  |
| 10°   | 1239.0 | 1163.2 | 1070.1 | 1034.0 | 1021.0 | 1011.1 | 1006.1 | 1003.0 | 1000.5 | 998.0  | 996.8  |
| 12.5° | 1312.9 | 1214.8 | 1103.0 | 1068.2 | 1049.6 | 1034.0 | 1022.9 | 1014.8 | 1009.2 | 1003.6 | 1002.4 |
| 15°   | 1395.5 | 1269.4 | 1139.6 | 1091.2 | 1064.5 | 1041.5 | 1022.2 | 1009.2 | 999.3  | 991.2  | 990.6  |
| 17.5° | 1474.4 | 1321.0 | 1164.5 | 1101.7 | 1062.6 | 1030.3 | 1004.9 | 986.8  | 974.4  | 963.9  | 962.6  |
| 20°   | 1558.8 | 1370.0 | 1175.6 | 1094.9 | 1044.0 | 1004.9 | 971.3  | 949.6  | 935.3  | 923.5  | 921.6  |
| 22.5° | 1643.9 | 1411.6 | 1174.4 | 1073.2 | 1011.7 | 965.7  | 930.3  | 907.3  | 890.6  | 878.8  | 874.4  |
| 25°   | 1725.3 | 1445.2 | 1158.9 | 1038.4 | 967.0  | 919.1  | 883.1  | 862.0  | 847.1  | 832.8  | 832.8  |
| 27.5° | 1798.5 | 1465.0 | 1129.7 | 996.2  | 921.0  | 870.7  | 842.1  | 822.9  | 809.2  | 799.9  | 794.3  |
| 30°   | 1870.6 | 1474.4 | 1089.9 | 942.7  | 872.6  | 829.7  | 806.7  | 795.6  | 783.1  | 772.6  | 771.3  |
| 32.5° | 1935.2 | 1472.5 | 1040.2 | 890.6  | 826.6  | 796.2  | 786.9  | 778.2  | 765.1  | 750.2  | 746.5  |
| 35°   | 1997.9 | 1460.1 | 981.3  | 833.4  | 788.1  | 776.3  | 778.8  | 766.4  | 742.8  | 724.1  | 721.0  |
| 37.5° | 2066.2 | 1437.7 | 916.7  | 786.9  | 755.8  | 767.0  | 773.2  | 745.9  | 707.4  | 678.2  | 671.3  |
| 40°   | 2145.1 | 1412.3 | 849.6  | 740.3  | 730.3  | 758.3  | 758.3  | 708.0  | 655.2  | 637.2  | 632.2  |
| 42.5° | 2237.6 | 1391.1 | 793.7  | 701.2  | 709.2  | 737.2  | 734.1  | 657.7  | 635.9  | 626.6  | 624.1  |
| 45°   | 2384.2 | 1383.7 | 735.9  | 667.0  | 691.8  | 712.3  | 686.9  | 640.3  | 627.9  | 620.4  | 617.9  |
| 47.5° | 2615.8 | 1392.4 | 685.0  | 641.5  | 672.0  | 687.5  | 634.1  | 628.5  | 619.8  | 609.2  | 608.0  |
| 50°   | 2830.7 | 1384.3 | 649.0  | 627.3  | 654.6  | 657.7  | 612.4  | 614.2  | 609.2  | 597.4  | 595.0  |
| 52.5° | 3006.5 | 1358.8 | 626.0  | 619.8  | 639.7  | 605.5  | 591.9  | 598.7  | 596.8  | 581.9  | 579.4  |
| 55°   | 3199.6 | 1343.3 | 614.8  | 619.8  | 629.7  | 560.2  | 572.6  | 582.5  | 580.1  | 569.5  | 568.9  |
| 57.5° | 3433.8 | 1346.4 | 606.8  | 621.7  | 619.8  | 537.2  | 553.4  | 565.2  | 564.5  | 561.4  | 561.4  |
| 60°   | 3673.5 | 1347.7 | 594.3  | 621.0  | 608.0  | 519.2  | 533.5  | 550.2  | 551.5  | 553.4  | 553.4  |
| 62.5° | 3753.0 | 1293.6 | 570.1  | 609.9  | 581.9  | 501.8  | 514.8  | 537.8  | 536.6  | 541.6  | 542.2  |
| 65°   | 3604.5 | 1144.0 | 534.1  | 584.4  | 548.4  | 489.4  | 500.6  | 521.7  | 514.8  | 527.9  | 530.4  |
| 67.5° | 3281.0 | 946.5  | 478.2  | 538.4  | 511.1  | 476.3  | 491.2  | 499.3  | 486.9  | 512.4  | 513.0  |
| 70°   | 2835.7 | 739.0  | 407.4  | 473.2  | 468.9  | 462.7  | 483.8  | 471.4  | 454.0  | 485.0  | 478.8  |
| 72.5° | 2371.1 | 564.5  | 325.4  | 386.9  | 412.4  | 442.2  | 470.8  | 435.4  | 411.1  | 420.4  | 409.3  |
| 75°   | 1781.2 | 417.3  | 261.5  | 303.1  | 343.4  | 413.0  | 459.0  | 391.9  | 354.6  | 345.9  | 343.4  |
| 77.5° | 908.0  | 272.6  | 195.6  | 226.7  | 257.7  | 373.2  | 442.8  | 341.0  | 293.8  | 280.1  | 273.9  |
| 80°   | 324.2  | 169.5  | 137.9  | 156.5  | 173.9  | 321.1  | 386.9  | 282.0  | 227.9  | 225.4  | 227.9  |
| 82.5° | 150.3  | 109.3  | 92.5   | 102.5  | 103.1  | 214.3  | 295.0  | 210.5  | 173.3  | 263.3  | 222.3  |
| 85°   | 64.6   | 54.7   | 52.2   | 50.9   | 47.2   | 95.6   | 165.8  | 113.0  | 176.4  | 78.9   | 72.7   |
| 87.5° | 19.3   | 21.7   | 19.3   | 14.3   | 10.6   | 10.6   | 16.8   | 6.2    | 4.3    | 3.1    | 3.1    |
| 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)