

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: P527410

Luminaire Tested: **GLAN-SA2B-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527410  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2B-830-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7990 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

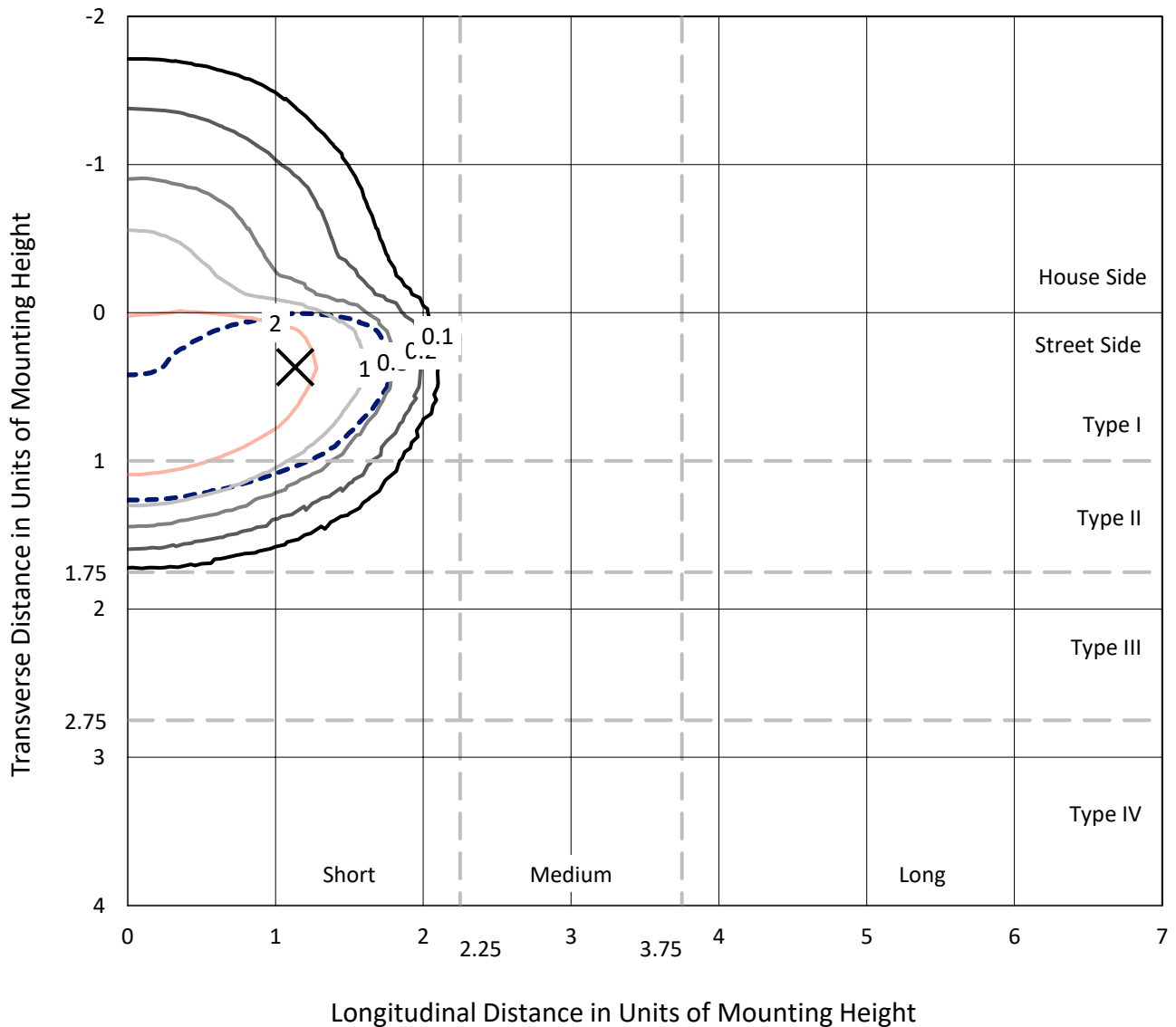
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

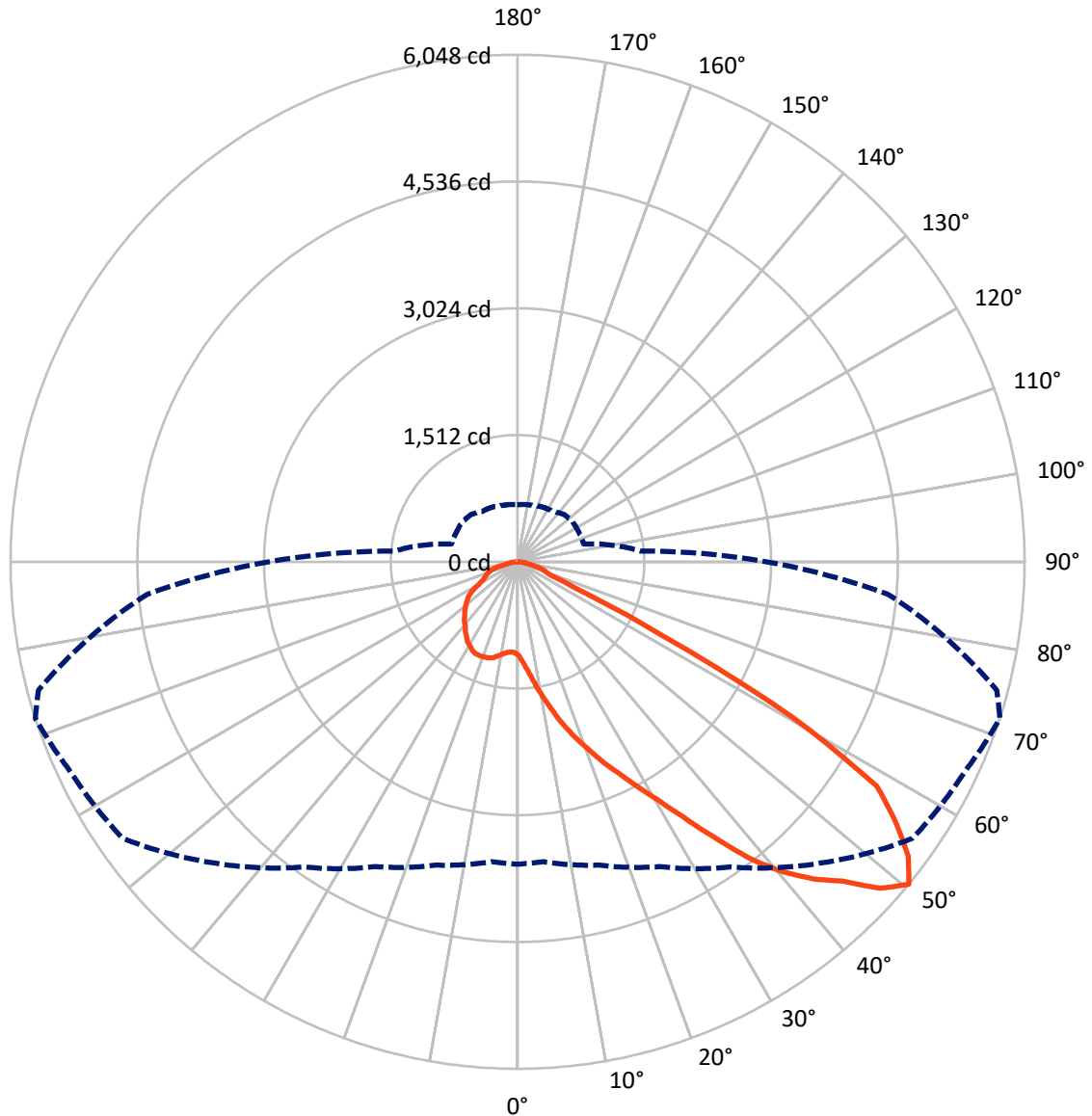
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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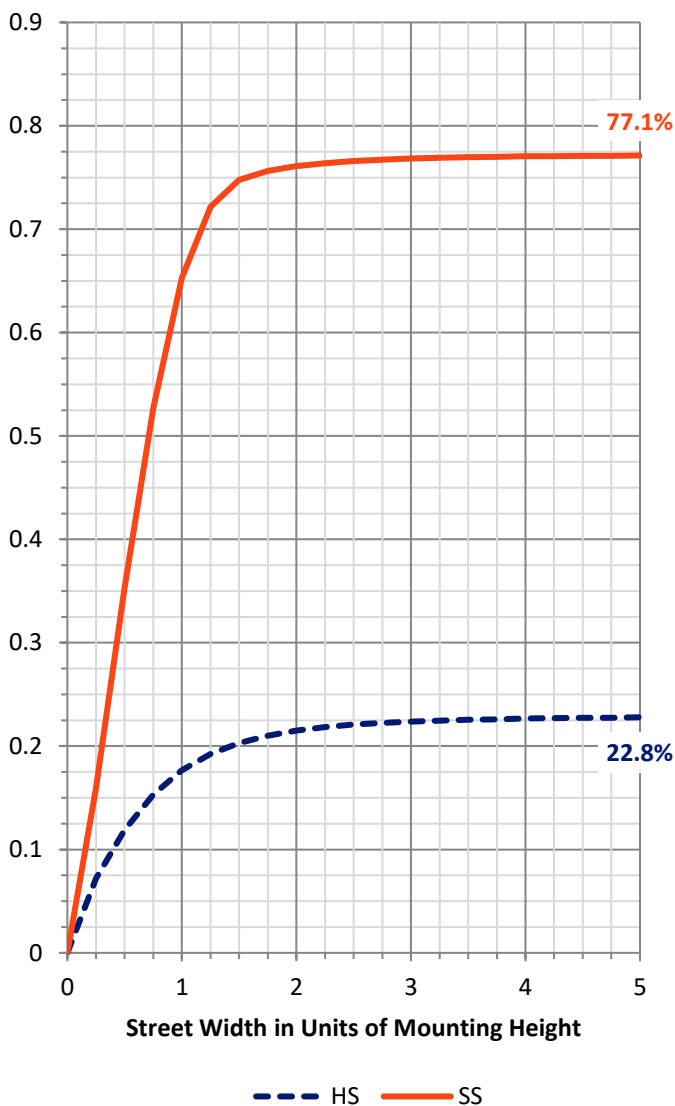
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1830.5   | 0.0    | 1830.5 |
|                    | % Fixture | 22.9     | 0.0    | 22.9   |
| <b>Street Side</b> | Lumens    | 6159.4   | 0.0    | 6159.4 |
|                    | % Fixture | 77.1     | 0.0    | 77.1   |
| <b>Total</b>       | Lumens    | 7990.0   | 0.0    | 7990.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 130.8  | 1.6       |
| 10°-20°   | 489.1  | 6.1       |
| 20°-30°   | 948.3  | 11.9      |
| 30°-40°   | 1571.0 | 19.7      |
| 40°-50°   | 2198.2 | 27.5      |
| 50°-60°   | 1854.5 | 23.2      |
| 60°-70°   | 565.2  | 7.1       |
| 70°-80°   | 198.3  | 2.5       |
| 80°-90°   | 34.5   | 0.4       |
| 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°    | 7990.0 | 100.0     |
| 0°-180°   | 7990.0 | 100.0     |

**Coefficient of Utilization**

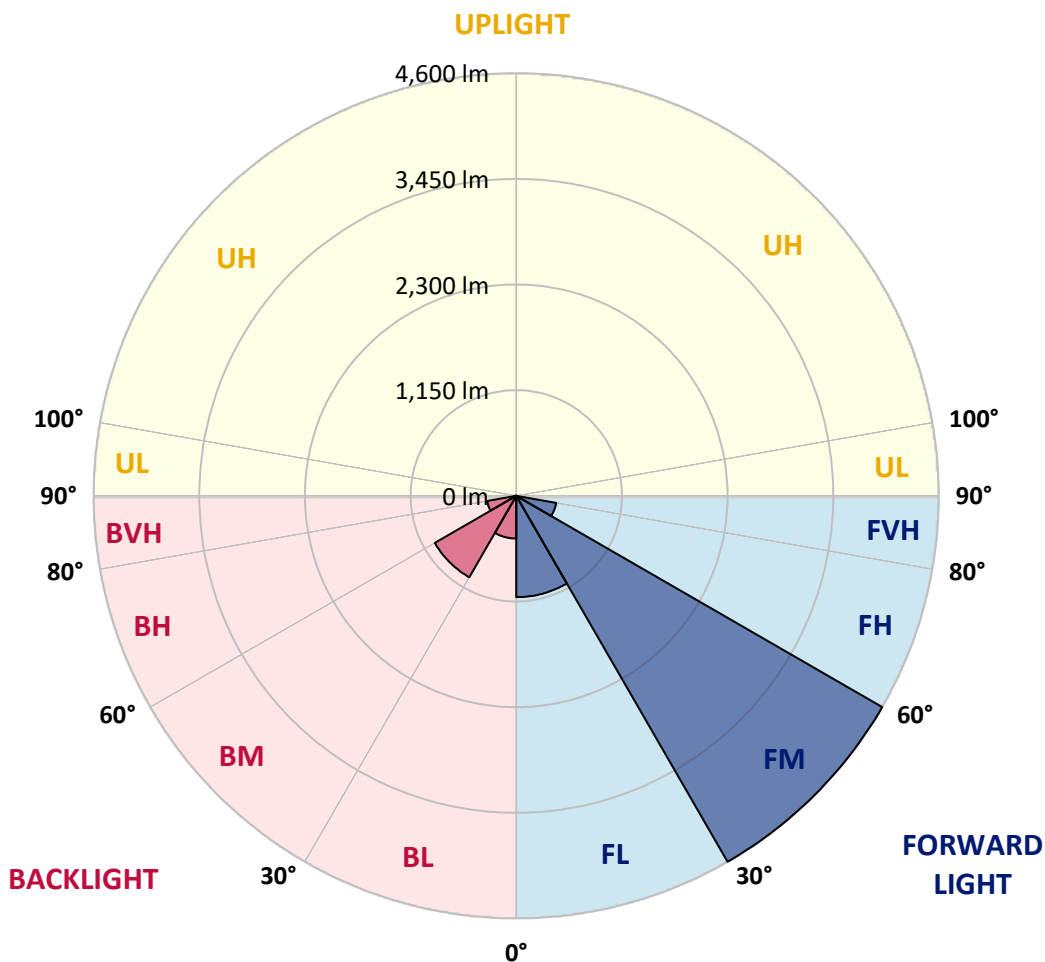


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 1102.9 | 13.8      |                         |      |        |
| FM (30°-60°)   | 4600.1 | 57.6      |                         |      |        |
| FH (60°-80°)   | 441.0  | 5.5       |                         |      | G0/660 |
| FVH (80°-90°)  | 15.4   | 0.2       |                         |      | G1/100 |
| BL (0°-30°)    | 465.3  | 5.8       | B1/500                  |      |        |
| BM (30°-60°)   | 1023.7 | 12.8      | B2/2500                 |      |        |
| BH (60°-80°)   | 322.5  | 4.0       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 19.0   | 0.2       |                         |      | G1/100 |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 72°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1112.3 | 1112.3 | 1112.3 | 1112.3 | 1112.3 | 1112.3 | 1112.3 | 1112.3 | 1112.3 | 1112.3 | 1112.3 |
| 2.5°  | 1430.6 | 1421.7 | 1395.0 | 1386.1 | 1354.5 | 1297.2 | 1277.4 | 1219.1 | 1194.3 | 1171.6 | 1144.9 |
| 5°    | 1809.3 | 1767.8 | 1764.8 | 1714.4 | 1641.2 | 1598.7 | 1472.2 | 1387.1 | 1309.0 | 1269.5 | 1196.3 |
| 7.5°  | 2050.5 | 2051.5 | 2051.5 | 2010.0 | 1951.7 | 1843.9 | 1730.2 | 1577.0 | 1459.3 | 1401.0 | 1276.4 |
| 10°   | 2279.9 | 2260.1 | 2249.3 | 2245.3 | 2205.8 | 2101.0 | 1979.4 | 1789.5 | 1628.4 | 1560.2 | 1336.7 |
| 12.5° | 2442.1 | 2425.3 | 2450.0 | 2437.1 | 2408.4 | 2340.2 | 2225.5 | 2009.0 | 1807.3 | 1715.4 | 1433.6 |
| 15°   | 2519.2 | 2531.0 | 2550.8 | 2586.4 | 2573.6 | 2547.9 | 2421.3 | 2234.4 | 2000.1 | 1896.3 | 1519.6 |
| 17.5° | 2637.8 | 2605.2 | 2628.9 | 2673.4 | 2709.0 | 2697.1 | 2625.0 | 2397.6 | 2190.9 | 2063.4 | 1635.3 |
| 20°   | 2720.9 | 2702.1 | 2714.0 | 2765.4 | 2792.1 | 2859.3 | 2821.7 | 2611.1 | 2373.8 | 2239.4 | 1771.7 |
| 22.5° | 2958.2 | 2930.5 | 2891.9 | 2899.8 | 2909.7 | 2957.2 | 2966.1 | 2845.4 | 2586.4 | 2444.0 | 1901.3 |
| 25°   | 3250.8 | 3225.1 | 3179.6 | 3133.2 | 3104.5 | 3095.6 | 3126.2 | 3029.3 | 2790.1 | 2642.8 | 2040.7 |
| 27.5° | 3573.1 | 3529.6 | 3501.0 | 3405.0 | 3327.9 | 3316.1 | 3301.2 | 3248.8 | 3031.3 | 2872.1 | 2197.9 |
| 30°   | 3886.5 | 3851.9 | 3813.4 | 3660.1 | 3580.0 | 3567.2 | 3494.0 | 3508.9 | 3293.3 | 3116.4 | 2375.8 |
| 32.5° | 4123.8 | 4126.8 | 4038.8 | 3923.1 | 3848.0 | 3779.8 | 3753.1 | 3795.6 | 3629.5 | 3487.1 | 2574.5 |
| 35°   | 4315.6 | 4324.5 | 4240.5 | 4135.7 | 4054.6 | 4102.1 | 4090.2 | 4110.0 | 4030.9 | 3856.9 | 2805.9 |
| 37.5° | 4502.5 | 4458.0 | 4368.0 | 4317.6 | 4275.1 | 4353.2 | 4454.0 | 4470.9 | 4485.7 | 4281.0 | 3074.8 |
| 40°   | 4533.1 | 4537.1 | 4484.7 | 4520.3 | 4466.9 | 4584.6 | 4818.9 | 4797.1 | 4857.4 | 4678.5 | 3366.5 |
| 42.5° | 4489.6 | 4498.5 | 4519.3 | 4569.7 | 4698.3 | 4839.6 | 5187.7 | 5098.7 | 5171.8 | 5012.7 | 3650.2 |
| 45°   | 4418.5 | 4381.9 | 4407.6 | 4599.4 | 4821.8 | 5136.2 | 5524.8 | 5455.6 | 5431.9 | 5298.4 | 3988.4 |
| 47.5° | 4078.3 | 4115.9 | 4196.0 | 4432.3 | 4766.5 | 5187.7 | 5764.1 | 5748.2 | 5819.4 | 5725.5 | 4295.9 |
| 50°   | 3606.7 | 3591.9 | 3746.1 | 4012.1 | 4443.2 | 5086.8 | 5751.2 | 5894.6 | 6047.8 | 5917.3 | 4433.3 |
| 52.5° | 2701.1 | 2780.2 | 2912.7 | 3242.9 | 3857.9 | 4537.1 | 5470.4 | 5709.7 | 5834.3 | 5806.6 | 4322.6 |
| 55°   | 1707.5 | 1731.2 | 1811.3 | 2203.8 | 2757.5 | 3641.3 | 4689.4 | 5244.0 | 5466.5 | 5570.3 | 4220.7 |
| 57.5° | 829.5  | 785.0  | 882.9  | 1198.3 | 1592.8 | 2449.0 | 3616.6 | 4567.7 | 5051.2 | 5239.1 | 3999.3 |
| 60°   | 433.0  | 449.9  | 488.4  | 601.1  | 823.6  | 1271.5 | 2254.2 | 3044.2 | 3782.7 | 4071.4 | 3031.3 |
| 62.5° | 358.9  | 364.8  | 390.5  | 446.9  | 547.7  | 731.6  | 1150.8 | 1484.0 | 1928.9 | 2189.0 | 1724.3 |
| 65°   | 304.5  | 307.5  | 335.2  | 372.7  | 437.0  | 515.1  | 592.2  | 619.9  | 750.4  | 770.2  | 613.0  |
| 67.5° | 254.1  | 257.1  | 286.7  | 322.3  | 363.8  | 384.6  | 404.4  | 402.4  | 417.2  | 411.3  | 410.3  |
| 70°   | 195.8  | 198.7  | 229.4  | 266.9  | 287.7  | 275.8  | 337.1  | 351.0  | 356.9  | 361.9  | 369.8  |
| 72.5° | 141.4  | 147.3  | 171.0  | 197.7  | 186.9  | 214.5  | 277.8  | 298.6  | 306.5  | 309.5  | 319.3  |
| 75°   | 102.8  | 104.8  | 110.7  | 102.8  | 118.6  | 149.3  | 195.8  | 221.5  | 231.4  | 234.3  | 249.1  |
| 77.5° | 45.5   | 46.5   | 47.5   | 59.3   | 76.1   | 92.9   | 116.7  | 137.4  | 151.3  | 155.2  | 159.2  |
| 80°   | 23.7   | 24.7   | 30.6   | 40.5   | 54.4   | 68.2   | 85.0   | 96.9   | 105.8  | 106.8  | 110.7  |
| 82.5° | 14.8   | 15.8   | 21.8   | 28.7   | 38.6   | 50.4   | 62.3   | 72.2   | 79.1   | 80.1   | 81.1   |
| 85°   | 6.9    | 8.9    | 12.9   | 17.8   | 25.7   | 32.6   | 33.6   | 28.7   | 30.6   | 31.6   | 29.7   |
| 87.5° | 2.0    | 3.0    | 4.0    | 3.0    | 4.0    | 4.0    | 4.9    | 5.9    | 5.9    | 5.9    | 6.9    |
| 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°    | 1112.3 | 1112.3 | 1112.3 | 1112.3 | 1112.3 | 1112.3 | 1112.3 | 1112.3 | 1112.3 | 1112.3 | 1112.3 |
| 2.5°  | 1130.1 | 1121.2 | 1086.6 | 1073.7 | 1040.1 | 1046.0 | 1028.2 | 1027.2 | 1023.3 | 1022.3 | 1021.3 |
| 5°    | 1157.8 | 1130.1 | 1088.5 | 1056.9 | 1038.1 | 1036.1 | 1023.3 | 1023.3 | 1027.2 | 1030.2 | 1023.3 |
| 7.5°  | 1203.2 | 1171.6 | 1101.4 | 1071.7 | 1054.9 | 1052.0 | 1043.1 | 1036.1 | 1045.0 | 1042.1 | 1034.2 |
| 10°   | 1255.6 | 1200.3 | 1126.1 | 1100.4 | 1072.7 | 1065.8 | 1065.8 | 1068.8 | 1053.9 | 1058.9 | 1051.0 |
| 12.5° | 1314.0 | 1239.8 | 1157.8 | 1128.1 | 1095.5 | 1091.5 | 1089.5 | 1067.8 | 1075.7 | 1071.7 | 1052.0 |
| 15°   | 1388.1 | 1285.3 | 1198.3 | 1147.9 | 1120.2 | 1102.4 | 1076.7 | 1072.7 | 1067.8 | 1057.9 | 1049.0 |
| 17.5° | 1468.2 | 1334.7 | 1217.1 | 1153.8 | 1112.3 | 1099.4 | 1079.6 | 1058.9 | 1044.1 | 1046.0 | 1039.1 |
| 20°   | 1536.4 | 1380.2 | 1224.0 | 1159.7 | 1106.3 | 1081.6 | 1051.0 | 1038.1 | 1022.3 | 1021.3 | 1020.3 |
| 22.5° | 1617.5 | 1441.5 | 1233.9 | 1143.9 | 1088.5 | 1062.8 | 1042.1 | 1019.3 | 1008.5 | 994.6  | 1001.5 |
| 25°   | 1714.4 | 1465.2 | 1235.9 | 1135.0 | 1075.7 | 1030.2 | 1019.3 | 994.6  | 990.7  | 970.9  | 974.8  |
| 27.5° | 1784.6 | 1478.1 | 1220.0 | 1107.3 | 1046.0 | 1011.4 | 991.7  | 973.9  | 966.9  | 952.1  | 948.2  |
| 30°   | 1878.5 | 1497.9 | 1186.4 | 1072.7 | 1016.4 | 977.8  | 966.0  | 962.0  | 942.2  | 926.4  | 924.4  |
| 32.5° | 1985.3 | 1510.7 | 1164.7 | 1037.1 | 985.7  | 956.1  | 962.0  | 943.2  | 918.5  | 904.7  | 900.7  |
| 35°   | 2070.3 | 1515.7 | 1110.3 | 996.6  | 965.0  | 946.2  | 939.3  | 935.3  | 899.7  | 886.9  | 877.0  |
| 37.5° | 2199.8 | 1504.8 | 1064.8 | 967.9  | 942.2  | 935.3  | 929.4  | 902.7  | 862.1  | 843.4  | 829.5  |
| 40°   | 2351.1 | 1501.8 | 1006.5 | 927.4  | 920.5  | 928.4  | 910.6  | 869.1  | 812.7  | 791.9  | 782.1  |
| 42.5° | 2496.4 | 1522.6 | 969.9  | 905.6  | 896.7  | 899.7  | 875.0  | 812.7  | 785.0  | 773.2  | 757.3  |
| 45°   | 2739.7 | 1566.1 | 909.6  | 872.0  | 868.1  | 866.1  | 836.4  | 771.2  | 755.4  | 740.5  | 737.6  |
| 47.5° | 2959.1 | 1537.4 | 871.0  | 837.4  | 841.4  | 830.5  | 767.2  | 746.5  | 728.7  | 713.8  | 708.9  |
| 50°   | 2972.0 | 1469.2 | 816.7  | 810.7  | 811.7  | 792.9  | 732.6  | 718.8  | 696.0  | 686.2  | 679.2  |
| 52.5° | 2904.8 | 1357.5 | 766.2  | 768.2  | 771.2  | 740.5  | 690.1  | 680.2  | 661.4  | 647.6  | 643.6  |
| 55°   | 2715.9 | 1183.5 | 716.8  | 724.7  | 732.6  | 674.3  | 658.5  | 633.8  | 618.9  | 599.1  | 600.1  |
| 57.5° | 2392.6 | 953.1  | 647.6  | 660.4  | 677.3  | 613.0  | 601.1  | 570.5  | 548.7  | 532.9  | 530.9  |
| 60°   | 1603.7 | 678.2  | 543.8  | 548.7  | 586.3  | 560.6  | 559.6  | 528.9  | 499.3  | 485.4  | 477.5  |
| 62.5° | 946.2  | 518.1  | 469.6  | 464.7  | 463.7  | 478.5  | 503.2  | 492.4  | 453.8  | 427.1  | 435.0  |
| 65°   | 495.3  | 447.9  | 437.0  | 420.2  | 410.3  | 406.4  | 425.1  | 430.1  | 404.4  | 375.7  | 373.7  |
| 67.5° | 416.2  | 416.2  | 407.3  | 401.4  | 387.6  | 370.8  | 358.9  | 343.1  | 339.1  | 331.2  | 321.3  |
| 70°   | 378.7  | 388.6  | 385.6  | 371.7  | 359.9  | 341.1  | 310.4  | 284.7  | 260.0  | 251.1  | 257.1  |
| 72.5° | 330.2  | 340.1  | 340.1  | 333.2  | 317.4  | 288.7  | 259.0  | 229.4  | 208.6  | 192.8  | 190.8  |
| 75°   | 254.1  | 259.0  | 270.9  | 263.0  | 242.2  | 224.4  | 193.8  | 163.1  | 143.4  | 128.5  | 125.6  |
| 77.5° | 162.1  | 170.1  | 170.1  | 169.1  | 154.2  | 137.4  | 117.7  | 95.9   | 81.1   | 70.2   | 67.2   |
| 80°   | 107.8  | 112.7  | 116.7  | 112.7  | 102.8  | 90.0   | 75.1   | 60.3   | 49.4   | 40.5   | 38.6   |
| 82.5° | 79.1   | 85.0   | 88.0   | 84.0   | 74.2   | 64.3   | 53.4   | 42.5   | 31.6   | 24.7   | 22.7   |
| 85°   | 30.6   | 31.6   | 35.6   | 42.5   | 41.5   | 40.5   | 32.6   | 23.7   | 17.8   | 12.9   | 11.9   |
| 87.5° | 7.9    | 6.9    | 7.9    | 7.9    | 6.9    | 5.9    | 5.9    | 5.9    | 5.9    | 3.0    | 4.0    |
| 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)