

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: P322196

Luminaire Tested: **GAN-SA2B-730-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322196  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2B-730-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7759 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

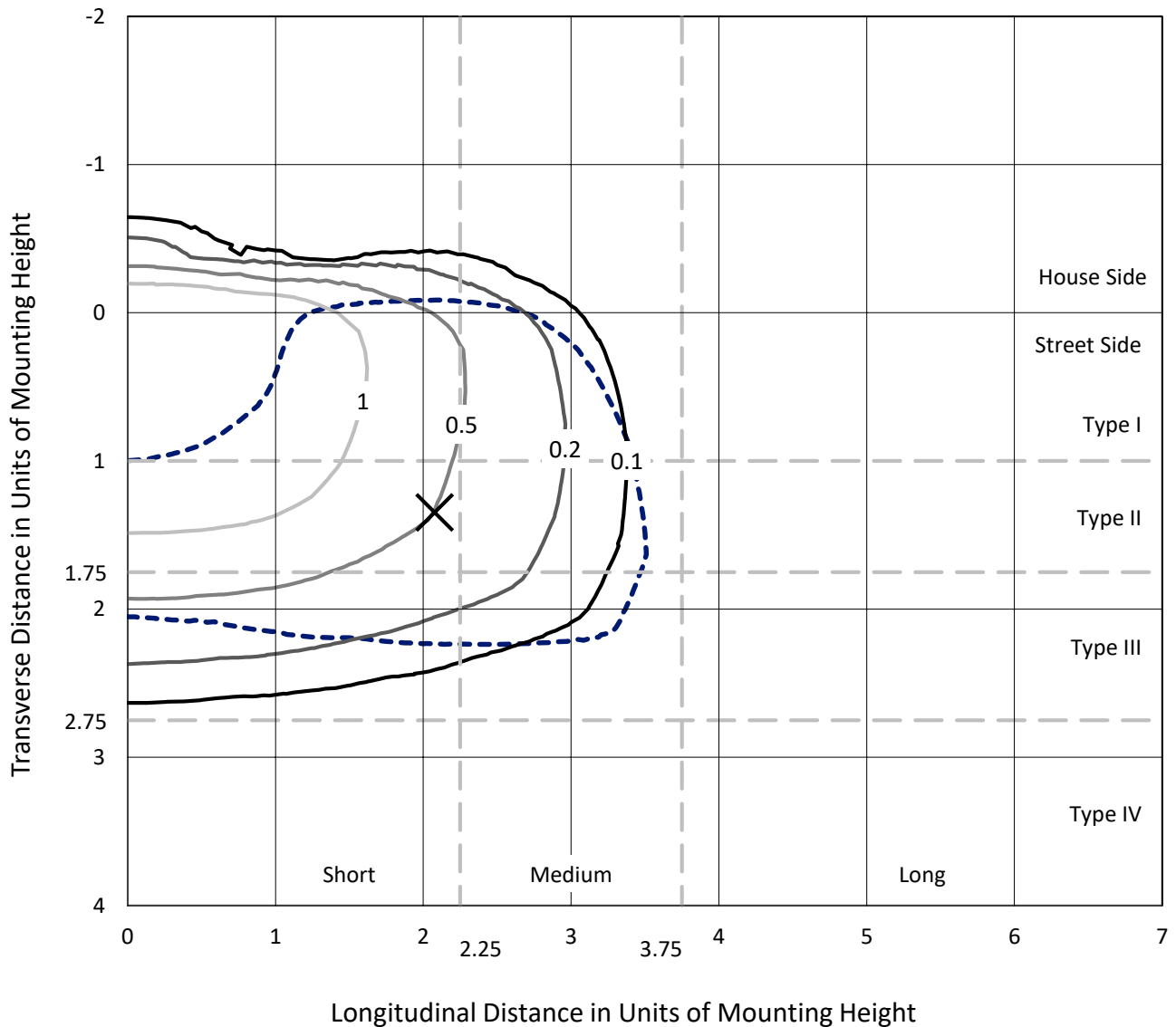
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

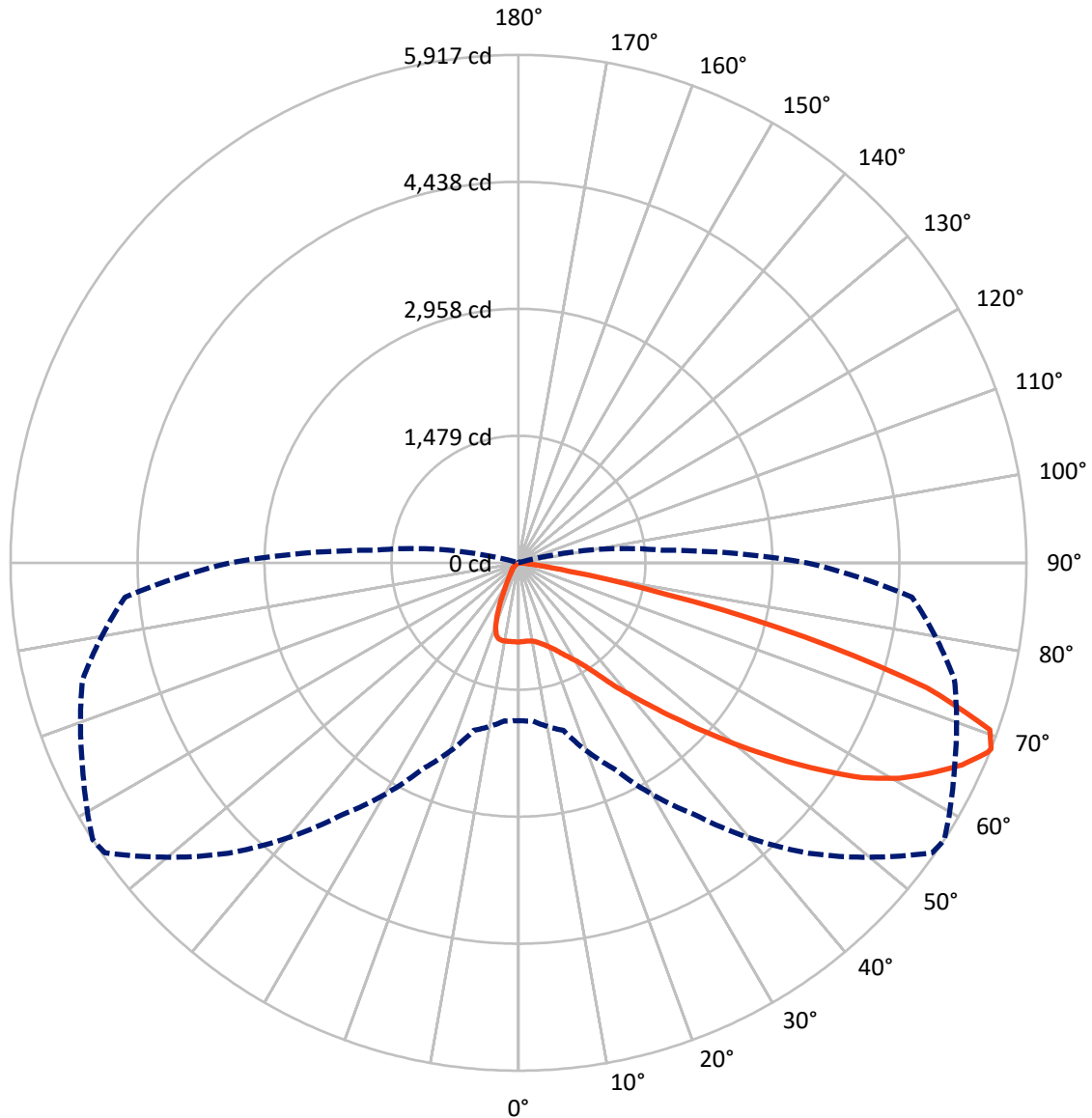
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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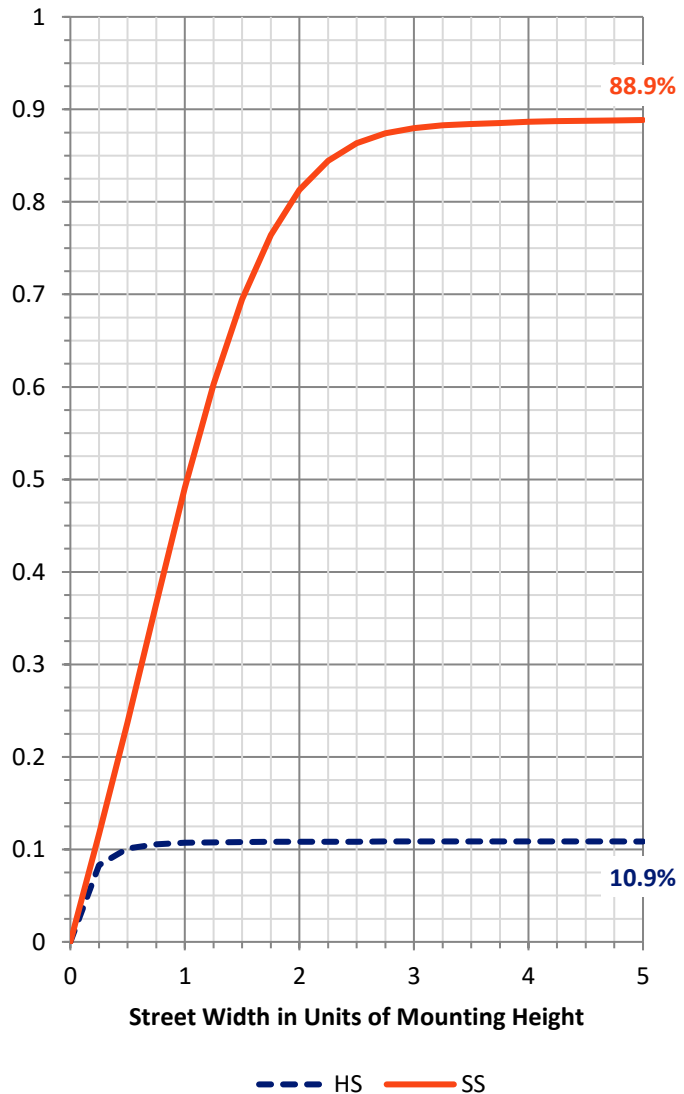
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 850.8    | 0.0    | 850.8  |
|                    | % Fixture | 11.0     | 0.0    | 11.0   |
| <b>Street Side</b> | Lumens    | 6908.2   | 0.0    | 6908.2 |
|                    | % Fixture | 89.0     | 0.0    | 89.0   |
| <b>Total</b>       | Lumens    | 7759.0   | 0.0    | 7759.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.3   | 1.1       |
| 10°-20°   | 239.1  | 3.1       |
| 20°-30°   | 412.5  | 5.3       |
| 30°-40°   | 711.9  | 9.2       |
| 40°-50°   | 1217.7 | 15.7      |
| 50°-60°   | 1948.2 | 25.1      |
| 60°-70°   | 2251.0 | 29.0      |
| 70°-80°   | 860.1  | 11.1      |
| 80°-90°   | 32.2   | 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°    | 7759.0 | 100.0     |
| 0°-180°   | 7759.0 | 100.0     |

**Coefficient of Utilization**



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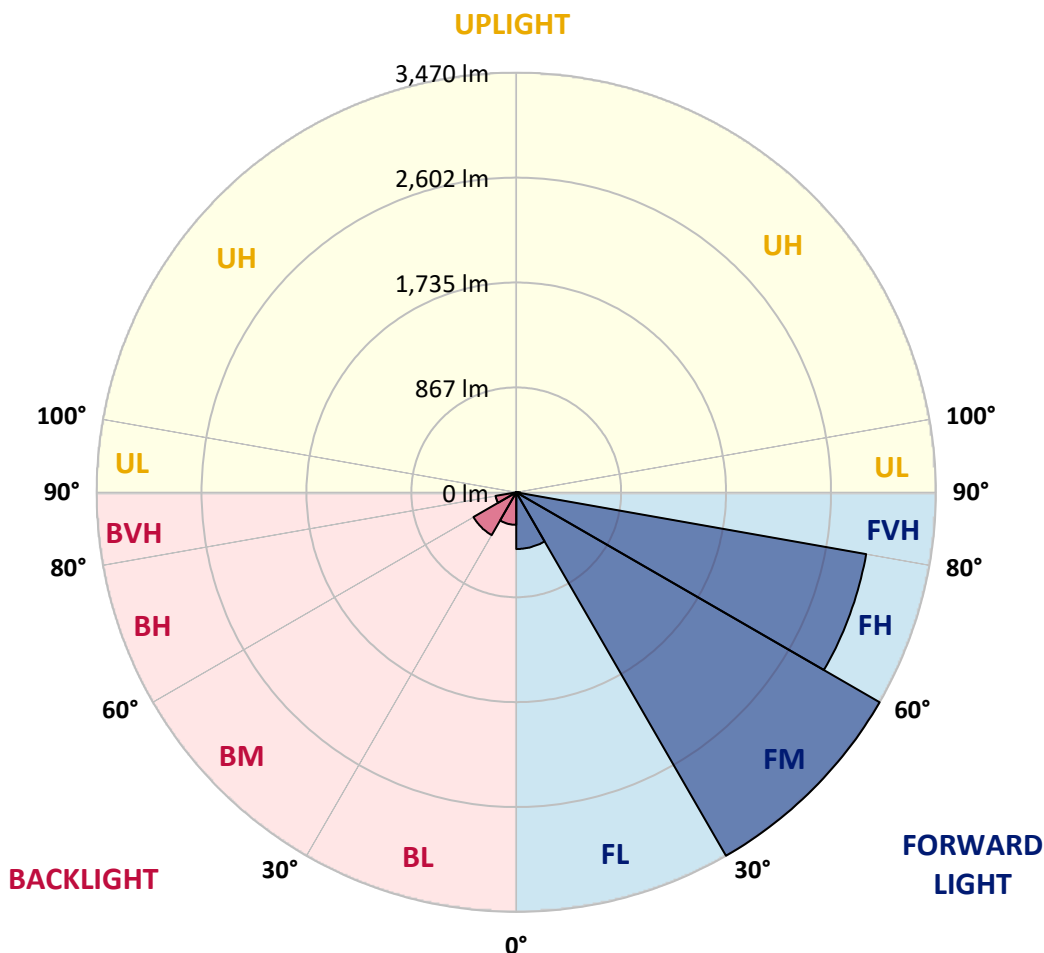
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 469.0  | 6.0       |                         |      |         |
| FM (30°-60°)   | 3469.8 | 44.7      |                         |      |         |
| FH (60°-80°)   | 2937.8 | 37.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 31.7   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 268.9  | 3.5       | B1/500                  |      |         |
| BM (30°-60°)   | 408.1  | 5.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 173.3  | 2.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 0.6    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 57°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 922.0  | 922.0  | 922.0  | 922.0  | 922.0  | 922.0  | 922.0  | 922.0  | 922.0  | 922.0  | 922.0  |
| 2.5°  | 900.3  | 904.4  | 907.3  | 909.1  | 911.3  | 916.1  | 917.6  | 919.8  | 920.9  | 920.9  | 923.4  |
| 5°    | 864.7  | 869.1  | 875.4  | 880.5  | 890.8  | 904.0  | 913.5  | 917.2  | 923.8  | 929.7  | 933.0  |
| 7.5°  | 831.7  | 836.9  | 844.2  | 856.3  | 873.9  | 895.2  | 915.0  | 920.1  | 933.0  | 945.5  | 951.7  |
| 10°   | 810.4  | 814.5  | 824.0  | 841.3  | 864.4  | 894.1  | 922.0  | 928.2  | 950.2  | 971.1  | 982.9  |
| 12.5° | 803.1  | 806.8  | 816.7  | 836.1  | 864.7  | 899.6  | 938.1  | 947.3  | 979.6  | 1010.0 | 1026.5 |
| 15°   | 813.7  | 814.5  | 825.1  | 843.5  | 871.7  | 913.2  | 964.9  | 975.9  | 1016.6 | 1056.3 | 1076.8 |
| 17.5° | 854.8  | 851.5  | 857.0  | 865.1  | 887.5  | 931.1  | 993.1  | 1009.7 | 1064.0 | 1110.6 | 1130.0 |
| 20°   | 957.6  | 957.6  | 945.1  | 923.1  | 923.4  | 959.0  | 1031.3 | 1050.0 | 1116.4 | 1170.4 | 1188.0 |
| 22.5° | 1133.3 | 1130.0 | 1105.0 | 1051.1 | 1001.6 | 1007.1 | 1077.9 | 1102.1 | 1179.5 | 1237.1 | 1243.0 |
| 25°   | 1344.6 | 1340.6 | 1302.1 | 1226.1 | 1140.3 | 1084.9 | 1141.0 | 1168.9 | 1254.7 | 1305.7 | 1293.6 |
| 27.5° | 1568.4 | 1565.1 | 1527.0 | 1432.7 | 1310.5 | 1208.9 | 1216.2 | 1242.6 | 1331.4 | 1381.7 | 1343.2 |
| 30°   | 1785.2 | 1786.3 | 1748.6 | 1651.7 | 1513.4 | 1367.0 | 1311.6 | 1327.0 | 1405.9 | 1456.9 | 1401.9 |
| 32.5° | 1991.4 | 1992.9 | 1960.2 | 1852.0 | 1722.9 | 1550.8 | 1443.7 | 1439.6 | 1492.5 | 1542.7 | 1479.6 |
| 35°   | 2175.2 | 2178.9 | 2156.5 | 2072.5 | 1935.7 | 1755.5 | 1615.0 | 1605.5 | 1615.4 | 1672.2 | 1598.9 |
| 37.5° | 2352.4 | 2354.6 | 2337.8 | 2267.0 | 2152.5 | 1980.4 | 1831.5 | 1817.9 | 1796.6 | 1840.3 | 1756.3 |
| 40°   | 2546.5 | 2541.0 | 2521.6 | 2457.4 | 2359.0 | 2228.8 | 2064.1 | 2040.6 | 2003.5 | 2042.4 | 1963.2 |
| 42.5° | 2727.0 | 2720.8 | 2724.1 | 2651.5 | 2568.5 | 2484.2 | 2335.2 | 2294.8 | 2273.2 | 2318.0 | 2217.1 |
| 45°   | 2952.7 | 2949.4 | 2960.4 | 2897.3 | 2830.1 | 2768.9 | 2646.0 | 2601.9 | 2592.4 | 2644.9 | 2524.1 |
| 47.5° | 3175.4 | 3183.4 | 3217.6 | 3190.8 | 3163.6 | 3109.7 | 2975.0 | 2955.2 | 2961.1 | 3024.6 | 2848.1 |
| 50°   | 3361.0 | 3370.5 | 3464.1 | 3494.9 | 3534.2 | 3502.6 | 3367.6 | 3355.5 | 3378.6 | 3435.8 | 3196.6 |
| 52.5° | 3495.3 | 3514.7 | 3631.0 | 3773.0 | 3916.1 | 3937.4 | 3802.7 | 3791.7 | 3822.9 | 3831.7 | 3465.9 |
| 55°   | 3588.5 | 3605.7 | 3737.4 | 3997.2 | 4288.5 | 4380.2 | 4296.6 | 4254.0 | 4248.1 | 4161.2 | 3749.2 |
| 57.5° | 3605.0 | 3603.1 | 3792.5 | 4142.1 | 4580.5 | 4817.2 | 4764.3 | 4722.5 | 4602.2 | 4465.7 | 4073.9 |
| 60°   | 3511.8 | 3522.4 | 3742.2 | 4192.4 | 4764.0 | 5147.7 | 5151.8 | 5097.5 | 4910.0 | 4761.8 | 4388.6 |
| 62.5° | 3224.9 | 3268.2 | 3490.1 | 4060.6 | 4761.8 | 5280.9 | 5435.7 | 5394.3 | 5170.1 | 5004.3 | 4707.8 |
| 65°   | 2759.7 | 2775.1 | 2986.8 | 3609.4 | 4440.0 | 5225.1 | 5691.4 | 5676.0 | 5404.5 | 5239.8 | 4871.8 |
| 67.5° | 2015.3 | 1981.9 | 2204.2 | 2842.2 | 3759.1 | 4900.1 | 5874.9 | 5894.3 | 5585.4 | 5288.2 | 4697.2 |
| 68°   | 1839.2 | 1849.1 | 2022.3 | 2652.6 | 3580.8 | 4785.2 | 5887.0 | 5916.7 | 5603.4 | 5256.7 | 4601.8 |
| 70°   | 1096.2 | 1115.3 | 1269.8 | 1826.3 | 2724.1 | 4135.5 | 5756.4 | 5824.2 | 5496.3 | 4931.3 | 3980.3 |
| 72.5° | 279.9  | 302.7  | 448.7  | 817.4  | 1555.9 | 2913.8 | 4859.3 | 4974.2 | 4772.0 | 4000.5 | 2687.0 |
| 75°   | 115.2  | 121.1  | 160.3  | 269.3  | 579.7  | 1312.7 | 3202.9 | 3448.7 | 3308.2 | 2395.0 | 1214.4 |
| 77.5° | 79.6   | 83.6   | 103.1  | 149.3  | 250.9  | 445.0  | 1570.3 | 1747.8 | 1574.7 | 817.4  | 264.9  |
| 80°   | 57.2   | 60.5   | 73.7   | 99.4   | 144.2  | 158.9  | 511.8  | 591.8  | 470.0  | 179.4  | 65.7   |
| 82.5° | 34.1   | 36.7   | 55.0   | 70.8   | 87.7   | 75.9   | 127.3  | 144.6  | 136.1  | 89.2   | 29.4   |
| 85°   | 16.9   | 19.8   | 37.1   | 50.6   | 47.3   | 31.9   | 38.9   | 43.3   | 53.6   | 54.3   | 15.8   |
| 87.5° | 1.1    | 2.2    | 21.6   | 30.5   | 13.2   | 7.3    | 11.4   | 13.9   | 19.1   | 26.8   | 6.6    |
| 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°    | 922.0  | 922.0  | 922.0  | 922.0 | 922.0 | 922.0 | 922.0 | 922.0 | 922.0 | 922.0 | 922.0 |
| 2.5°  | 924.5  | 924.9  | 922.3  | 921.2 | 922.0 | 917.6 | 915.7 | 916.5 | 916.5 | 917.6 | 915.7 |
| 5°    | 933.7  | 933.7  | 929.3  | 923.4 | 920.1 | 911.7 | 906.2 | 904.7 | 903.6 | 902.9 | 901.4 |
| 7.5°  | 953.5  | 951.3  | 943.6  | 930.8 | 919.8 | 901.4 | 887.5 | 880.1 | 876.5 | 875.0 | 873.9 |
| 10°   | 985.4  | 981.4  | 968.6  | 944.7 | 919.4 | 886.8 | 856.3 | 834.7 | 816.7 | 809.3 | 804.9 |
| 12.5° | 1028.4 | 1022.5 | 1000.9 | 961.2 | 916.8 | 856.7 | 790.6 | 727.2 | 668.1 | 643.9 | 631.8 |
| 15°   | 1077.9 | 1069.5 | 1035.3 | 975.2 | 901.8 | 788.8 | 645.3 | 534.2 | 452.4 | 421.5 | 408.3 |
| 17.5° | 1128.2 | 1117.2 | 1065.4 | 984.0 | 856.7 | 648.3 | 452.7 | 341.9 | 287.3 | 272.6 | 267.5 |
| 20°   | 1178.8 | 1162.6 | 1091.5 | 977.4 | 754.7 | 467.4 | 298.6 | 249.8 | 234.1 | 229.7 | 228.2 |
| 22.5° | 1226.9 | 1201.9 | 1115.0 | 951.7 | 597.7 | 313.7 | 236.3 | 220.9 | 215.7 | 213.2 | 212.4 |
| 25°   | 1268.7 | 1233.8 | 1135.5 | 872.4 | 423.0 | 237.0 | 212.8 | 207.7 | 201.1 | 196.3 | 196.6 |
| 27.5° | 1307.9 | 1265.7 | 1148.0 | 741.8 | 282.1 | 202.5 | 197.0 | 190.0 | 177.9 | 171.0 | 171.0 |
| 30°   | 1355.3 | 1308.3 | 1157.1 | 570.9 | 207.7 | 179.0 | 174.6 | 164.0 | 147.5 | 138.3 | 138.3 |
| 32.5° | 1426.4 | 1372.9 | 1151.3 | 400.6 | 172.1 | 157.4 | 147.1 | 132.4 | 114.5 | 105.7 | 105.3 |
| 35°   | 1535.4 | 1472.7 | 1109.5 | 262.7 | 151.9 | 136.8 | 120.3 | 102.4 | 86.6  | 79.2  | 78.9  |
| 37.5° | 1682.2 | 1606.2 | 1015.5 | 187.8 | 136.1 | 117.8 | 98.0  | 78.1  | 66.4  | 61.6  | 61.3  |
| 40°   | 1872.6 | 1761.4 | 881.2  | 152.3 | 121.4 | 99.4  | 75.6  | 60.5  | 52.5  | 48.8  | 49.2  |
| 42.5° | 2101.1 | 1927.6 | 720.2  | 131.3 | 107.1 | 81.8  | 59.1  | 47.7  | 42.6  | 40.0  | 39.3  |
| 45°   | 2355.0 | 2091.6 | 551.4  | 117.0 | 92.8  | 66.0  | 46.2  | 37.8  | 33.8  | 32.3  | 32.3  |
| 47.5° | 2634.2 | 2251.2 | 403.6  | 104.6 | 77.4  | 51.0  | 37.1  | 30.8  | 27.5  | 26.4  | 26.0  |
| 50°   | 2887.7 | 2362.0 | 290.9  | 91.4  | 63.5  | 40.4  | 30.1  | 25.7  | 23.5  | 22.0  | 22.0  |
| 52.5° | 3099.0 | 2396.8 | 214.3  | 77.0  | 51.4  | 32.3  | 24.9  | 22.0  | 19.8  | 18.7  | 18.7  |
| 55°   | 3285.1 | 2382.5 | 159.2  | 63.5  | 41.5  | 26.4  | 21.3  | 18.7  | 16.9  | 15.8  | 15.8  |
| 57.5° | 3463.4 | 2336.3 | 118.9  | 51.7  | 33.4  | 21.3  | 18.0  | 15.8  | 13.9  | 13.2  | 13.2  |
| 60°   | 3609.0 | 2259.3 | 88.4   | 41.8  | 26.8  | 17.2  | 15.0  | 12.8  | 11.4  | 10.3  | 10.3  |
| 62.5° | 3727.2 | 2174.1 | 64.9   | 34.5  | 21.3  | 13.6  | 11.7  | 10.6  | 8.4   | 7.3   | 7.3   |
| 65°   | 3727.9 | 2032.9 | 48.8   | 28.6  | 16.5  | 10.6  | 8.8   | 8.4   | 5.5   | 4.4   | 4.0   |
| 67.5° | 3458.2 | 1752.6 | 37.4   | 24.6  | 12.8  | 8.1   | 6.6   | 7.0   | 2.9   | 1.8   | 1.5   |
| 68°   | 3360.3 | 1681.4 | 35.2   | 24.2  | 12.1  | 7.7   | 6.2   | 7.0   | 2.6   | 1.5   | 1.1   |
| 70°   | 2833.1 | 1337.7 | 28.2   | 23.5  | 10.6  | 5.9   | 5.1   | 7.0   | 2.2   | 1.1   | 0.7   |
| 72.5° | 1812.0 | 776.3  | 20.9   | 18.7  | 8.1   | 4.4   | 3.3   | 6.2   | 2.2   | 0.7   | 0.4   |
| 75°   | 771.2  | 240.7  | 14.3   | 13.2  | 4.8   | 3.3   | 2.2   | 4.0   | 1.5   | 0.4   | 0.0   |
| 77.5° | 162.5  | 54.3   | 8.4    | 8.1   | 3.3   | 2.2   | 1.5   | 1.1   | 0.4   | 0.0   | 0.0   |
| 80°   | 41.8   | 15.8   | 4.4    | 4.0   | 1.8   | 1.1   | 0.7   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 13.2   | 6.2    | 2.6    | 1.8   | 0.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 6.6    | 3.7    | 1.5    | 0.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 3.7    | 1.1    | 0.4    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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)