

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: P321326

Luminaire Tested: **GAN-SA2C-750-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321326  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2C-750-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11681 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 113  
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

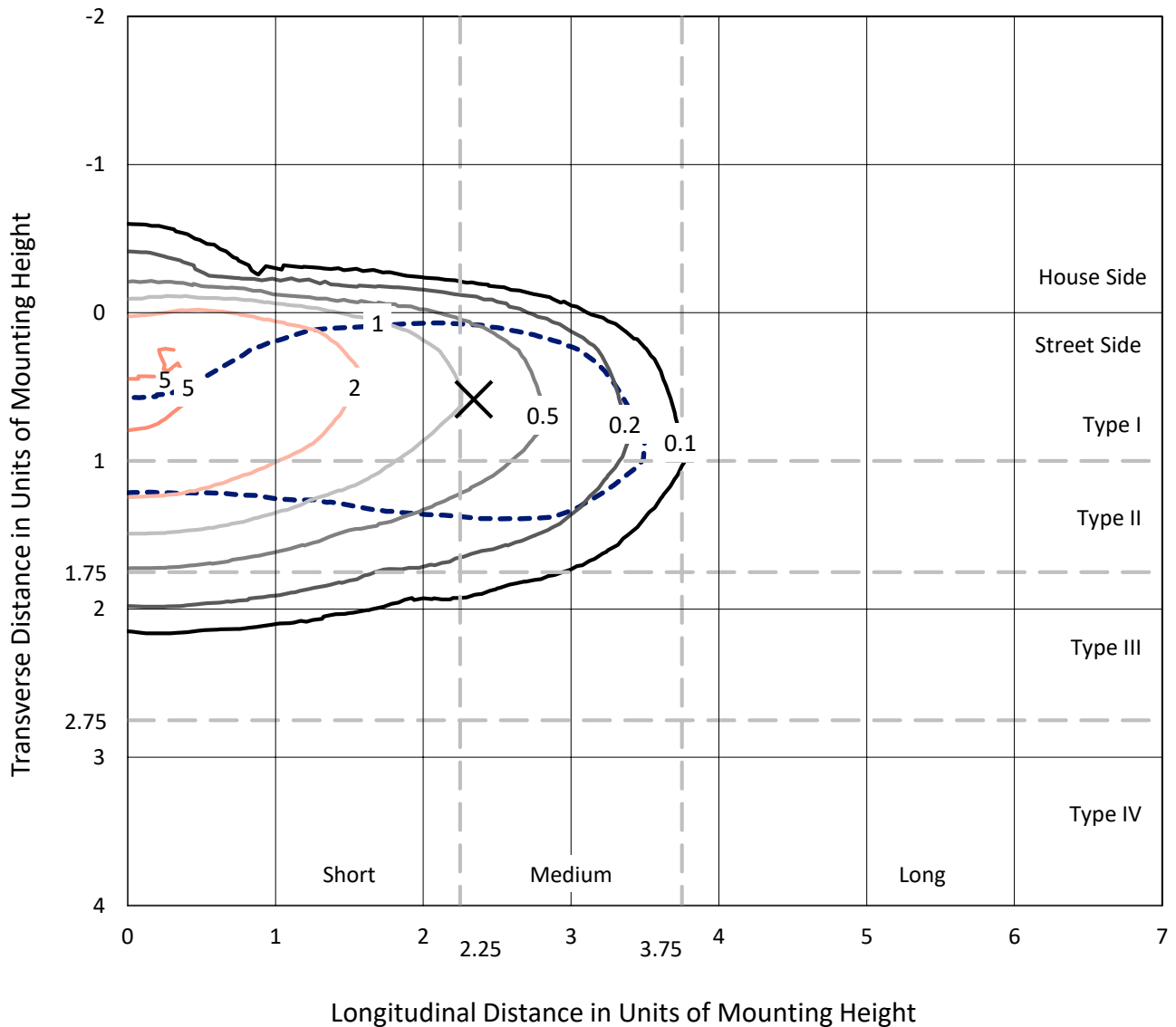




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### Iso-Footcandle Lines of Horizontal Illumination

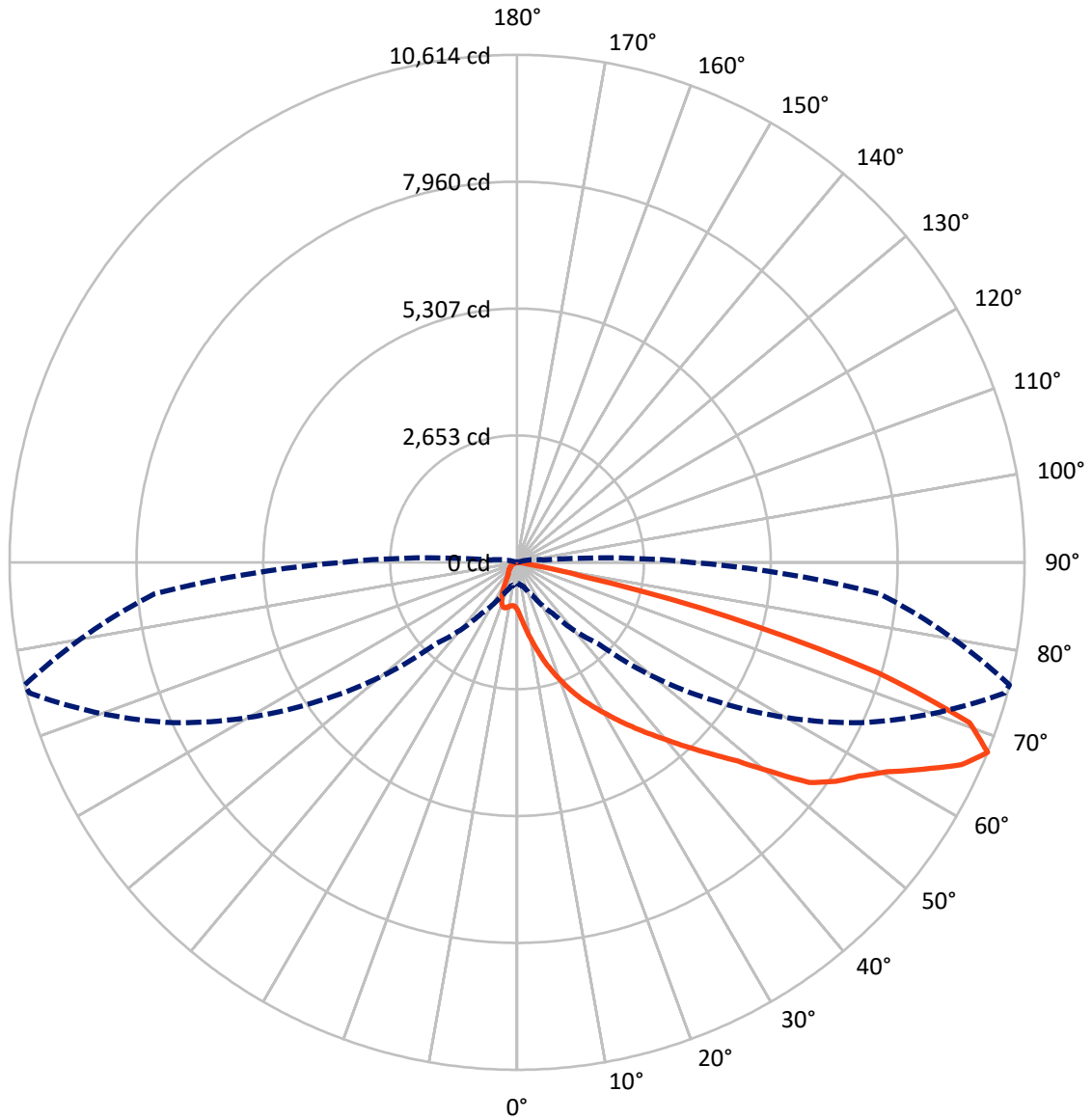
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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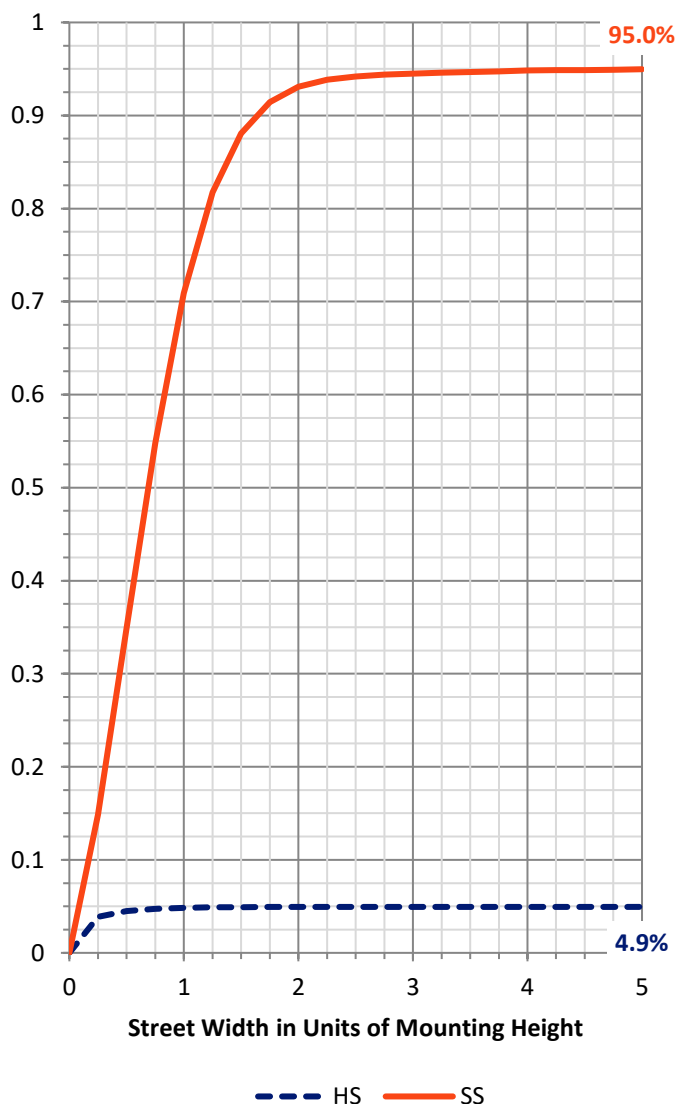
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 580.0    | 0.0    | 580.0   |
|                    | % Fixture | 5.0      | 0.0    | 5.0     |
| <b>Street Side</b> | Lumens    | 11100.9  | 0.0    | 11100.9 |
|                    | % Fixture | 95.0     | 0.0    | 95.0    |
| <b>Total</b>       | Lumens    | 11681.0  | 0.0    | 11681.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 123.2   | 1.1       |
| 10°-20°   | 488.4   | 4.2       |
| 20°-30°   | 993.8   | 8.5       |
| 30°-40°   | 1725.0  | 14.8      |
| 40°-50°   | 2437.1  | 20.9      |
| 50°-60°   | 2763.8  | 23.7      |
| 60°-70°   | 2292.3  | 19.6      |
| 70°-80°   | 830.3   | 7.1       |
| 80°-90°   | 26.9    | 0.2       |
| 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°    | 11681.0 | 100.0     |
| 0°-180°   | 11681.0 | 100.0     |

**Coefficient of Utilization**

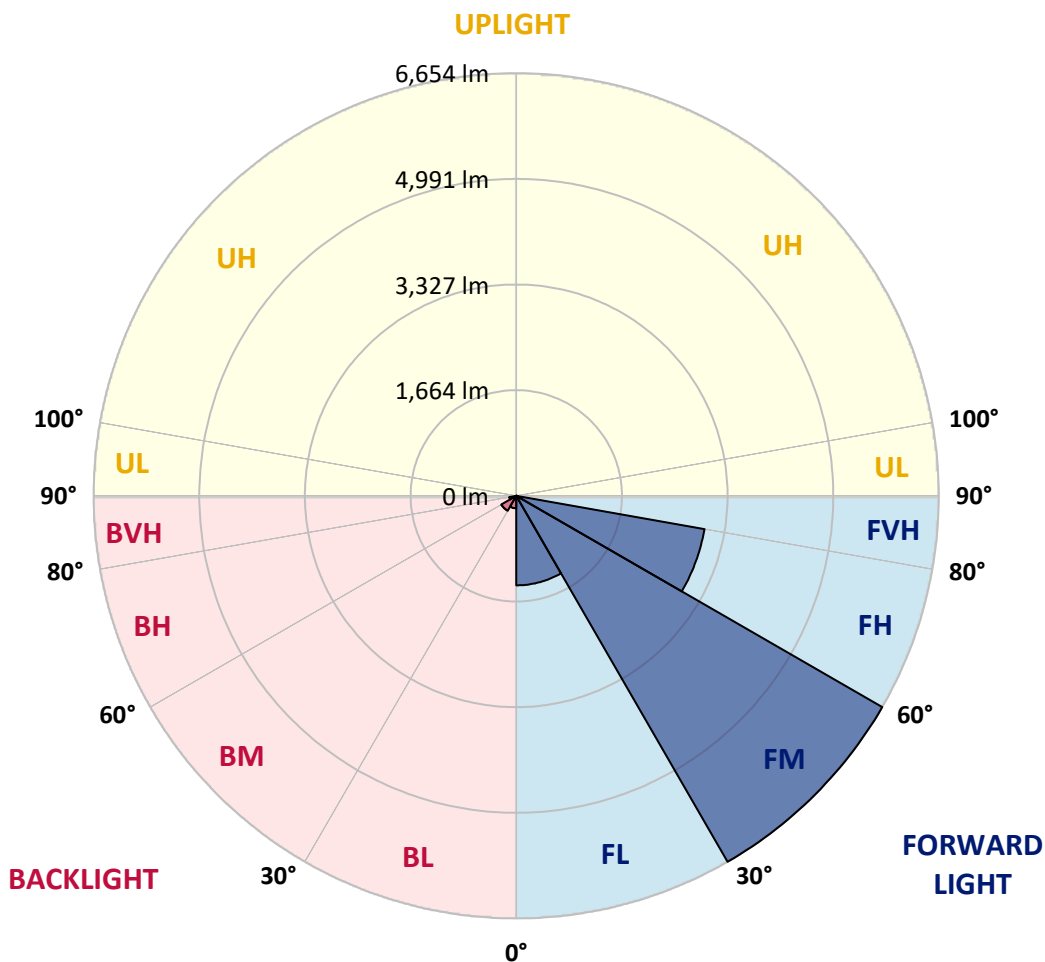


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1409.9 | 12.1      |                         |      |         |
| FM (30°-60°)   | 6654.4 | 57.0      |                         |      |         |
| FH (60°-80°)   | 3010.6 | 25.8      |                         |      | G2/5000 |
| FVH (80°-90°)  | 26.1   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 195.6  | 1.7       | B1/500                  |      |         |
| BM (30°-60°)   | 271.5  | 2.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 112.1  | 1.0       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 0.8    | 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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 76°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0°    | 990.9  | 990.9  | 990.9  | 990.9  | 990.9  | 990.9  | 990.9  | 990.9  | 990.9   | 990.9   | 990.9  |
| 2.5°  | 1479.2 | 1445.9 | 1453.6 | 1432.1 | 1393.2 | 1313.3 | 1245.3 | 1180.8 | 1105.5  | 1103.0  | 1041.0 |
| 5°    | 1994.6 | 1966.4 | 1962.8 | 1919.3 | 1848.7 | 1713.1 | 1581.0 | 1430.5 | 1262.7  | 1250.4  | 1118.8 |
| 7.5°  | 2462.4 | 2439.9 | 2431.7 | 2380.0 | 2248.4 | 2116.4 | 1944.4 | 1723.3 | 1460.7  | 1438.2  | 1223.8 |
| 10°   | 2821.7 | 2810.9 | 2813.0 | 2776.1 | 2663.5 | 2540.7 | 2315.0 | 2033.0 | 1685.4  | 1650.6  | 1349.7 |
| 12.5° | 3094.0 | 3096.5 | 3114.9 | 3092.4 | 3029.5 | 2938.4 | 2697.3 | 2363.1 | 1934.2  | 1886.6  | 1493.5 |
| 15°   | 3294.1 | 3306.9 | 3340.7 | 3368.8 | 3364.2 | 3285.4 | 3064.3 | 2698.3 | 2198.3  | 2145.6  | 1653.7 |
| 17.5° | 3423.6 | 3437.9 | 3487.0 | 3549.5 | 3606.8 | 3588.4 | 3418.5 | 3021.8 | 2465.4  | 2404.5  | 1825.2 |
| 20°   | 3537.2 | 3554.1 | 3606.8 | 3689.2 | 3796.2 | 3819.2 | 3707.6 | 3335.5 | 2732.1  | 2657.9  | 2002.2 |
| 22.5° | 3783.4 | 3782.9 | 3815.1 | 3863.2 | 3965.1 | 4024.5 | 3953.8 | 3626.8 | 2995.7  | 2918.4  | 2182.9 |
| 25°   | 4228.7 | 4211.8 | 4200.5 | 4162.6 | 4185.2 | 4222.0 | 4182.6 | 3899.1 | 3260.8  | 3182.5  | 2366.2 |
| 27.5° | 4757.9 | 4768.1 | 4677.0 | 4575.2 | 4496.4 | 4458.5 | 4394.0 | 4151.4 | 3515.7  | 3429.7  | 2545.3 |
| 30°   | 5316.3 | 5319.4 | 5211.9 | 5081.9 | 4908.4 | 4764.5 | 4653.0 | 4392.5 | 3777.8  | 3684.1  | 2719.3 |
| 32.5° | 5819.9 | 5800.0 | 5693.5 | 5516.4 | 5297.4 | 5135.6 | 4903.8 | 4661.7 | 4055.2  | 3964.6  | 2912.8 |
| 35°   | 6219.1 | 6195.6 | 6066.1 | 5904.9 | 5677.6 | 5514.9 | 5235.9 | 4930.4 | 4346.9  | 4258.4  | 3106.8 |
| 37.5° | 6510.9 | 6483.2 | 6350.2 | 6184.3 | 5988.3 | 5893.6 | 5621.3 | 5222.6 | 4665.3  | 4570.1  | 3311.0 |
| 40°   | 6612.2 | 6588.2 | 6504.7 | 6383.4 | 6225.8 | 6204.3 | 6030.3 | 5558.9 | 5011.8  | 4910.4  | 3542.3 |
| 42.5° | 6551.8 | 6528.3 | 6498.6 | 6457.7 | 6392.1 | 6412.6 | 6416.2 | 5942.3 | 5396.6  | 5296.8  | 3797.7 |
| 45°   | 6312.3 | 6291.3 | 6322.0 | 6381.9 | 6463.3 | 6564.6 | 6768.3 | 6354.3 | 5826.6  | 5720.1  | 4093.0 |
| 47.5° | 5959.7 | 5944.3 | 6029.3 | 6178.7 | 6416.7 | 6696.2 | 7090.3 | 6787.3 | 6309.2  | 6210.4  | 4461.6 |
| 50°   | 5458.1 | 5455.5 | 5625.4 | 5898.2 | 6264.2 | 6759.6 | 7423.0 | 7279.6 | 6979.7  | 6875.8  | 4973.9 |
| 52.5° | 4677.0 | 4682.1 | 5016.4 | 5453.0 | 5996.5 | 6716.6 | 7636.9 | 7912.3 | 7759.7  | 7651.7  | 5417.6 |
| 55°   | 3933.4 | 3964.1 | 4201.0 | 4830.6 | 5586.0 | 6556.9 | 7710.6 | 8207.6 | 8190.2  | 8087.8  | 5664.3 |
| 57.5° | 3205.0 | 3260.8 | 3489.1 | 4077.2 | 4986.7 | 6188.9 | 7670.2 | 8335.5 | 8510.6  | 8432.3  | 5989.9 |
| 60°   | 2415.8 | 2441.4 | 2704.5 | 3254.2 | 4217.4 | 5517.4 | 7376.9 | 8405.1 | 8948.7  | 8894.4  | 6462.3 |
| 62.5° | 1537.0 | 1601.0 | 1834.4 | 2364.6 | 3283.8 | 4584.9 | 6882.5 | 8404.1 | 9496.9  | 9526.5  | 7071.8 |
| 65°   | 809.7  | 884.4  | 1008.3 | 1465.3 | 2256.6 | 3543.3 | 6138.8 | 8325.3 | 10169.4 | 10210.8 | 7548.3 |
| 67.5° | 436.6  | 458.1  | 523.6  | 760.6  | 1308.7 | 2400.4 | 5046.1 | 7936.3 | 10558.9 | 10613.6 | 7614.9 |
| 70°   | 319.4  | 331.1  | 355.7  | 420.7  | 658.7  | 1394.2 | 3682.0 | 7054.4 | 10056.8 | 10036.3 | 6765.8 |
| 72.5° | 245.2  | 263.6  | 282.0  | 308.1  | 378.7  | 744.2  | 2292.5 | 5524.1 | 8024.3  | 7889.2  | 5057.3 |
| 75°   | 193.5  | 196.5  | 222.6  | 246.2  | 284.1  | 423.8  | 1018.0 | 3217.3 | 4897.6  | 4577.7  | 2622.6 |
| 77.5° | 154.6  | 156.6  | 172.0  | 192.4  | 228.3  | 278.4  | 315.3  | 1265.7 | 1563.6  | 1395.2  | 569.1  |
| 80°   | 91.6   | 96.7   | 128.0  | 148.4  | 189.4  | 175.6  | 115.2  | 274.8  | 244.1   | 221.1   | 95.7   |
| 82.5° | 51.2   | 55.3   | 72.2   | 117.2  | 132.1  | 83.9   | 57.3   | 74.2   | 57.3    | 55.8    | 27.1   |
| 85°   | 0.0    | 2.6    | 46.6   | 72.7   | 53.7   | 18.4   | 24.1   | 24.6   | 16.9    | 15.9    | 10.7   |
| 87.5° | 0.0    | 0.0    | 14.3   | 13.8   | 2.0    | 3.1    | 5.6    | 8.2    | 6.7     | 6.7     | 5.6    |
| 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°    | 990.9  | 990.9  | 990.9 | 990.9 | 990.9 | 990.9 | 990.9 | 990.9 | 990.9 | 990.9 | 990.9 |
| 2.5°  | 1010.3 | 982.7  | 930.5 | 879.3 | 836.3 | 801.0 | 769.3 | 756.5 | 746.2 | 744.7 | 736.5 |
| 5°    | 1055.4 | 999.6  | 899.8 | 817.9 | 763.1 | 724.2 | 691.0 | 670.5 | 654.6 | 648.5 | 642.8 |
| 7.5°  | 1123.4 | 1039.0 | 895.7 | 801.5 | 736.0 | 670.5 | 609.1 | 542.5 | 501.1 | 485.2 | 476.0 |
| 10°   | 1206.4 | 1091.2 | 911.0 | 796.9 | 682.3 | 544.1 | 442.2 | 357.8 | 323.5 | 312.2 | 309.1 |
| 12.5° | 1303.1 | 1156.2 | 937.7 | 768.2 | 567.6 | 386.4 | 305.0 | 276.4 | 268.7 | 265.1 | 265.1 |
| 15°   | 1414.2 | 1227.3 | 956.6 | 685.3 | 419.7 | 292.3 | 264.1 | 250.8 | 242.6 | 238.0 | 238.5 |
| 17.5° | 1527.8 | 1297.0 | 947.4 | 565.1 | 309.7 | 260.0 | 239.0 | 224.7 | 213.4 | 208.8 | 207.8 |
| 20°   | 1642.4 | 1361.4 | 896.2 | 420.7 | 262.1 | 235.9 | 212.4 | 196.5 | 185.3 | 180.7 | 179.6 |
| 22.5° | 1761.2 | 1416.2 | 806.1 | 308.6 | 235.4 | 209.3 | 186.3 | 170.4 | 159.7 | 155.6 | 153.5 |
| 25°   | 1876.9 | 1460.7 | 680.2 | 249.8 | 210.4 | 184.3 | 162.2 | 147.4 | 137.7 | 133.6 | 133.1 |
| 27.5° | 1984.8 | 1488.9 | 534.3 | 220.6 | 188.4 | 161.7 | 141.8 | 128.5 | 120.3 | 117.2 | 116.7 |
| 30°   | 2082.1 | 1491.4 | 395.1 | 199.1 | 168.9 | 142.3 | 123.9 | 112.1 | 104.9 | 101.9 | 100.8 |
| 32.5° | 2180.4 | 1470.0 | 287.6 | 179.6 | 151.0 | 125.4 | 107.5 | 98.3  | 93.2  | 90.6  | 90.6  |
| 35°   | 2273.0 | 1420.3 | 224.2 | 162.8 | 133.6 | 109.0 | 94.7  | 88.0  | 85.0  | 82.4  | 82.4  |
| 37.5° | 2363.6 | 1349.2 | 190.4 | 147.9 | 117.2 | 95.2  | 83.4  | 79.3  | 76.8  | 74.2  | 74.2  |
| 40°   | 2455.7 | 1259.6 | 173.0 | 134.1 | 103.9 | 84.5  | 74.2  | 70.6  | 68.1  | 66.0  | 65.5  |
| 42.5° | 2568.8 | 1156.2 | 161.7 | 121.3 | 92.1  | 74.7  | 65.5  | 61.4  | 59.4  | 57.3  | 56.3  |
| 45°   | 2699.9 | 1067.1 | 152.5 | 108.5 | 82.4  | 66.5  | 56.8  | 52.7  | 49.6  | 47.1  | 46.6  |
| 47.5° | 2888.7 | 1002.7 | 140.2 | 94.7  | 73.2  | 57.8  | 49.1  | 44.5  | 39.9  | 37.4  | 36.9  |
| 50°   | 3129.8 | 949.4  | 124.4 | 82.4  | 64.0  | 49.1  | 40.9  | 35.3  | 31.2  | 28.7  | 28.7  |
| 52.5° | 3249.6 | 879.8  | 110.0 | 71.7  | 53.7  | 41.5  | 33.3  | 26.6  | 24.6  | 22.0  | 22.0  |
| 55°   | 3297.7 | 826.6  | 95.7  | 60.9  | 44.5  | 34.3  | 26.1  | 20.5  | 18.9  | 17.4  | 16.9  |
| 57.5° | 3432.8 | 811.2  | 83.4  | 51.7  | 36.9  | 27.1  | 20.0  | 15.4  | 14.3  | 12.3  | 12.3  |
| 60°   | 3650.3 | 818.9  | 72.2  | 44.0  | 29.7  | 21.0  | 14.8  | 11.8  | 10.7  | 8.7   | 8.7   |
| 62.5° | 3885.2 | 809.2  | 60.9  | 37.9  | 23.0  | 15.4  | 10.2  | 8.7   | 8.7   | 5.1   | 4.6   |
| 65°   | 3930.3 | 720.6  | 52.2  | 31.2  | 17.9  | 11.3  | 6.7   | 5.6   | 7.7   | 1.0   | 0.0   |
| 67.5° | 3647.8 | 558.9  | 45.0  | 24.1  | 13.3  | 8.7   | 5.1   | 2.6   | 6.7   | 0.0   | 0.0   |
| 70°   | 2916.9 | 355.2  | 36.3  | 17.4  | 10.2  | 7.2   | 4.1   | 1.0   | 5.1   | 0.0   | 0.0   |
| 72.5° | 2062.6 | 206.3  | 28.7  | 12.3  | 8.7   | 5.6   | 3.1   | 0.0   | 3.1   | 0.0   | 0.0   |
| 75°   | 1043.1 | 110.0  | 17.9  | 9.2   | 6.7   | 4.1   | 2.0   | 0.0   | 0.5   | 0.0   | 0.0   |
| 77.5° | 225.7  | 51.2   | 11.3  | 6.7   | 4.6   | 2.6   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 49.1   | 22.5   | 7.2   | 4.1   | 2.6   | 1.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 17.9   | 11.8   | 3.6   | 2.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 9.7    | 6.1    | 2.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 5.1    | 2.0    | 0.5   | 0.5   | 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)