

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: P321928

Luminaire Tested: **GAN-SA4C-740-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321928  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4C-740-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20297 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

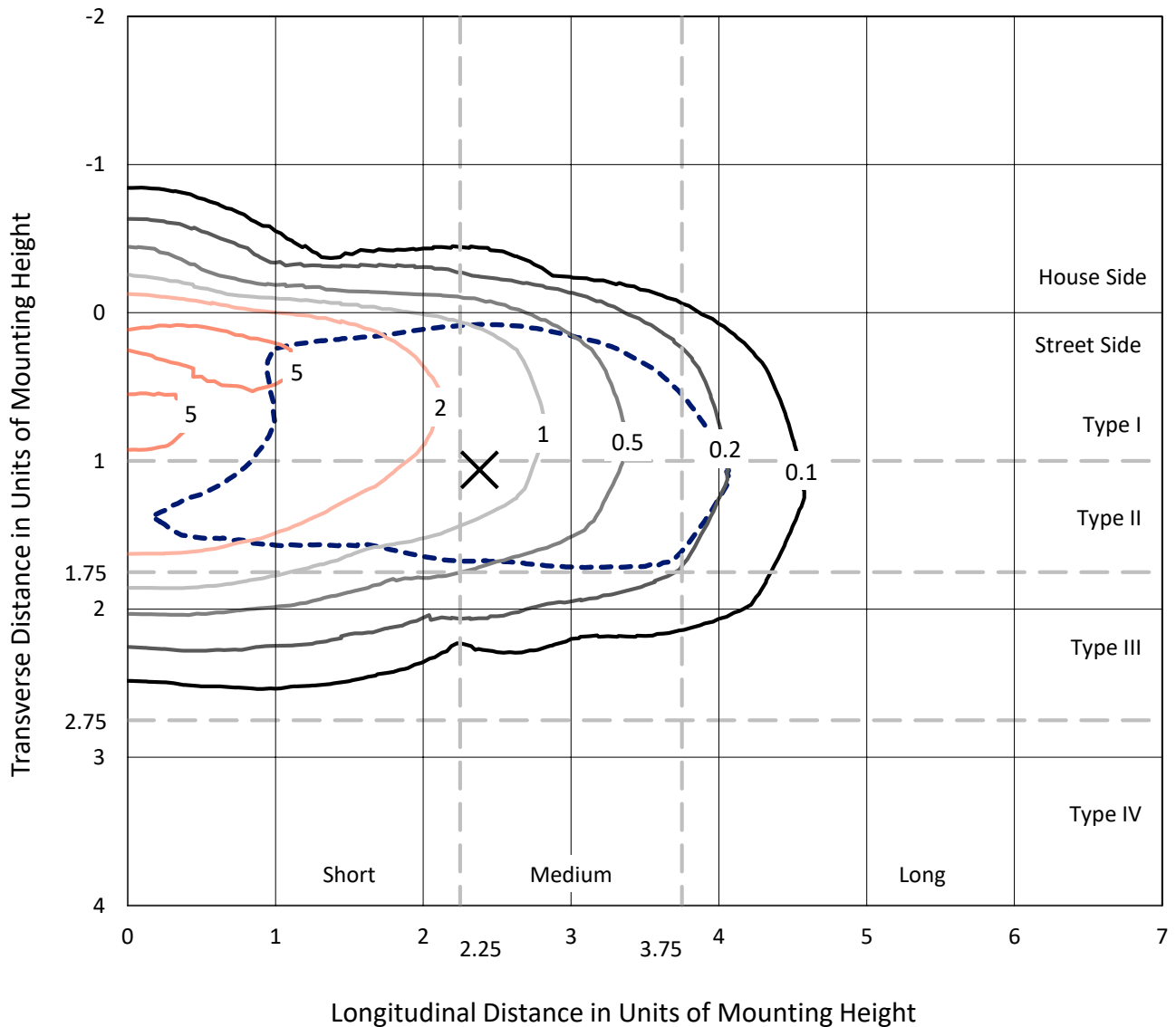
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

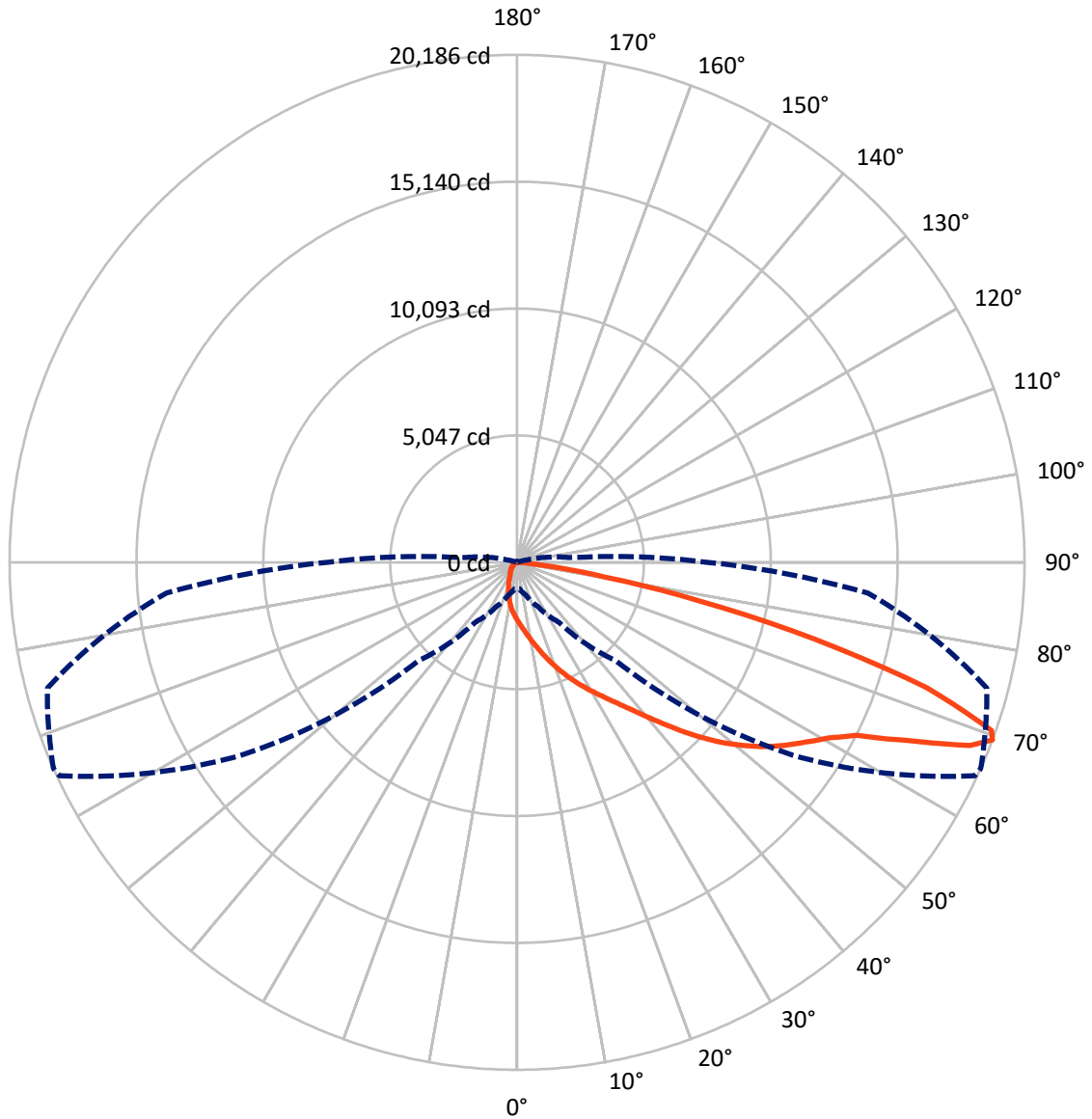
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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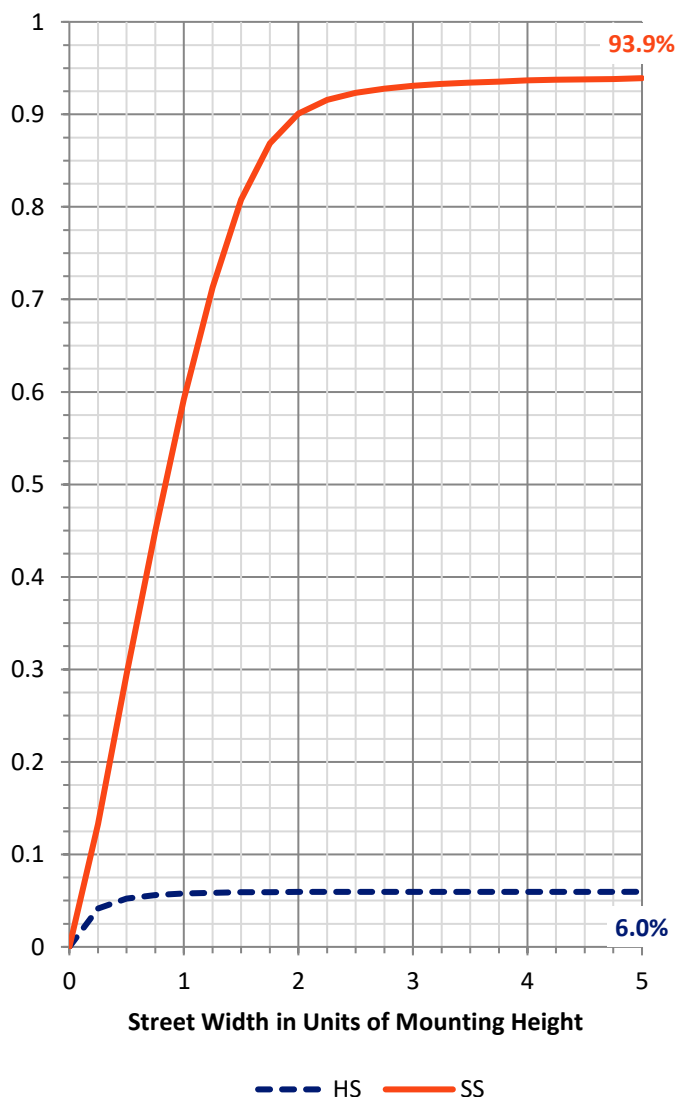
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1217.5   | 0.0    | 1217.5  |
|                    | % Fixture | 6.0      | 0.0    | 6.0     |
| <b>Street Side</b> | Lumens    | 19079.5  | 0.0    | 19079.5 |
|                    | % Fixture | 94.0     | 0.0    | 94.0    |
| <b>Total</b>       | Lumens    | 20297.0  | 0.0    | 20297.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 223.3   | 1.1       |
| 10°-20°   | 664.5   | 3.3       |
| 20°-30°   | 1157.2  | 5.7       |
| 30°-40°   | 2030.3  | 10.0      |
| 40°-50°   | 3398.3  | 16.7      |
| 50°-60°   | 4995.2  | 24.6      |
| 60°-70°   | 5128.8  | 25.3      |
| 70°-80°   | 2532.0  | 12.5      |
| 80°-90°   | 167.4   | 0.8       |
| 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°    | 20297.0 | 100.0     |
| 0°-180°   | 20297.0 | 100.0     |

**Coefficient of Utilization**



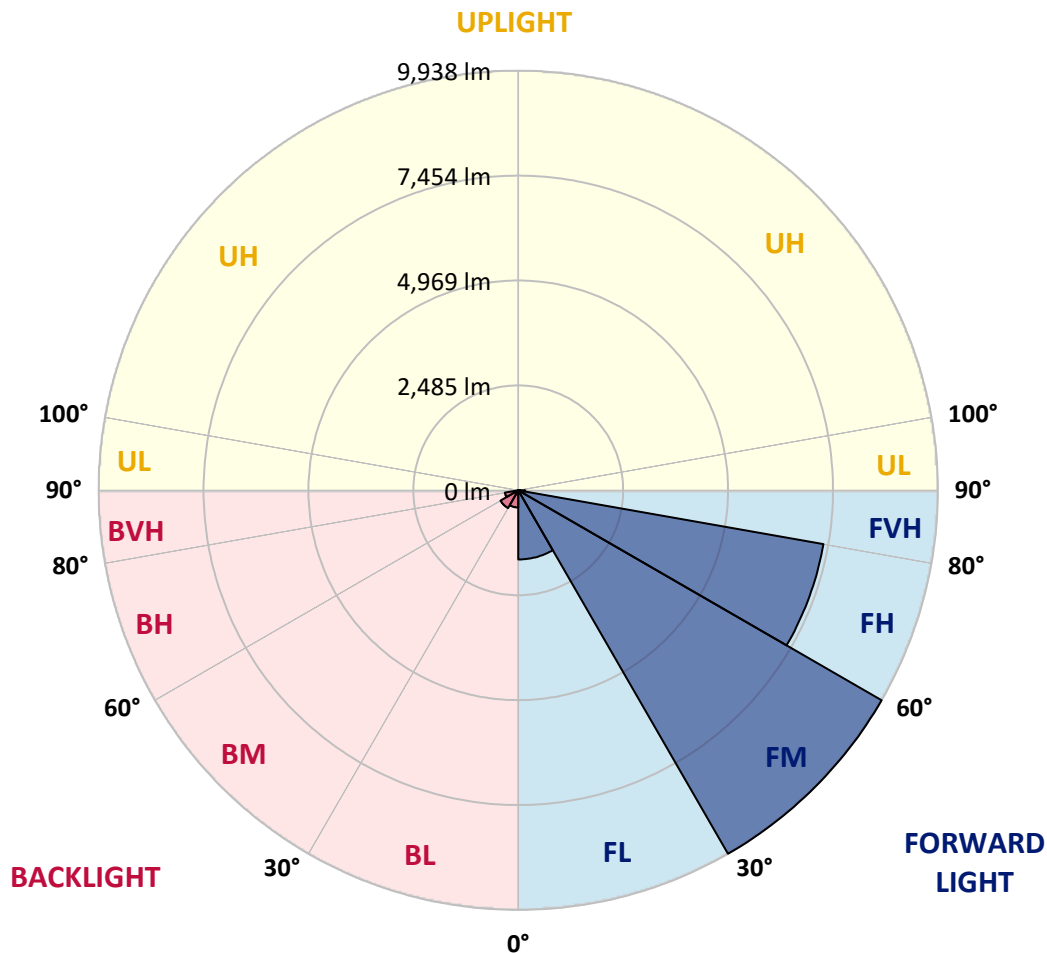
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1637.8 | 8.1       |                         |      |         |
| FM (30°-60°)   | 9938.4 | 49.0      |                         |      |         |
| FH (60°-80°)   | 7339.9 | 36.2      |                         |      | G3/7500 |
| FVH (80°-90°)  | 163.4  | 0.8       |                         |      | G2/225  |
| BL (0°-30°)    | 407.2  | 2.0       | B1/500                  |      |         |
| BM (30°-60°)   | 485.4  | 2.4       | B1/1000                 |      |         |
| BH (60°-80°)   | 320.9  | 1.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 4.0    | 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-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2309.9 | 2309.9  | 2309.9  | 2309.9  | 2309.9  | 2309.9  | 2309.9  | 2309.9  | 2309.9  | 2309.9  | 2309.9  |
| 2.5°  | 2718.6 | 2707.1  | 2702.2  | 2681.0  | 2644.4  | 2616.4  | 2562.4  | 2499.8  | 2488.2  | 2427.5  | 2353.2  |
| 5°    | 3071.5 | 3061.8  | 3055.1  | 3025.2  | 2987.6  | 2917.2  | 2818.9  | 2702.2  | 2680.1  | 2564.4  | 2415.9  |
| 7.5°  | 3317.3 | 3334.6  | 3334.6  | 3315.4  | 3268.1  | 3215.1  | 3094.6  | 2935.5  | 2907.6  | 2730.2  | 2499.8  |
| 10°   | 3460.9 | 3482.1  | 3498.5  | 3514.9  | 3508.2  | 3487.0  | 3373.2  | 3193.9  | 3160.2  | 2924.9  | 2597.2  |
| 12.5° | 3474.4 | 3495.6  | 3541.9  | 3610.4  | 3676.9  | 3725.1  | 3653.7  | 3480.2  | 3441.7  | 3150.5  | 2712.8  |
| 15°   | 3399.2 | 3421.4  | 3492.8  | 3625.8  | 3786.8  | 3927.5  | 3950.7  | 3797.4  | 3757.9  | 3419.5  | 2857.4  |
| 17.5° | 3268.1 | 3282.6  | 3384.8  | 3568.9  | 3821.5  | 4079.9  | 4219.6  | 4137.7  | 4101.1  | 3727.0  | 3018.4  |
| 20°   | 3170.8 | 3181.4  | 3271.0  | 3468.7  | 3800.3  | 4175.3  | 4474.2  | 4499.2  | 4460.7  | 4056.7  | 3192.9  |
| 22.5° | 3337.5 | 3356.8  | 3359.7  | 3453.2  | 3742.4  | 4222.5  | 4697.8  | 4855.0  | 4826.0  | 4406.7  | 3364.5  |
| 25°   | 3793.5 | 3815.7  | 3742.4  | 3684.6  | 3791.6  | 4243.7  | 4889.7  | 5219.4  | 5196.2  | 4783.6  | 3537.1  |
| 27.5° | 4396.1 | 4419.2  | 4324.7  | 4152.2  | 4049.0  | 4323.8  | 5060.3  | 5589.6  | 5588.6  | 5182.7  | 3723.2  |
| 30°   | 4988.0 | 5011.1  | 4914.7  | 4742.2  | 4505.0  | 4550.3  | 5207.8  | 5977.1  | 5982.9  | 5594.4  | 3920.8  |
| 32.5° | 5608.8 | 5637.8  | 5538.5  | 5316.7  | 5069.0  | 4941.7  | 5415.1  | 6366.6  | 6399.4  | 6071.6  | 4143.5  |
| 35°   | 6314.5 | 6318.4  | 6178.6  | 5946.3  | 5660.9  | 5465.2  | 5747.7  | 6803.3  | 6881.4  | 6662.5  | 4426.0  |
| 37.5° | 7006.7 | 7034.7  | 6920.0  | 6553.6  | 6291.4  | 6069.7  | 6242.2  | 7349.0  | 7459.8  | 7384.6  | 4795.2  |
| 40°   | 7519.6 | 7578.4  | 7562.0  | 7166.7  | 6918.0  | 6759.9  | 6856.3  | 7997.8  | 8138.5  | 8225.3  | 5260.8  |
| 42.5° | 7841.6 | 7885.9  | 7961.1  | 7723.0  | 7497.4  | 7523.4  | 7581.3  | 8753.6  | 8927.1  | 9183.5  | 5795.9  |
| 45°   | 8210.8 | 8232.0  | 8294.7  | 8189.6  | 8037.3  | 8299.5  | 8350.6  | 9604.8  | 9787.0  | 10214.1 | 6389.7  |
| 47.5° | 8662.0 | 8712.1  | 8729.5  | 8633.1  | 8563.7  | 8985.9  | 9092.0  | 10379.0 | 10634.4 | 11317.9 | 7018.3  |
| 50°   | 9236.6 | 9250.1  | 9279.9  | 9217.3  | 9147.9  | 9575.9  | 9757.1  | 11191.7 | 11424.0 | 12425.6 | 7638.2  |
| 52.5° | 9798.6 | 9846.8  | 9950.9  | 9911.4  | 9883.4  | 10078.2 | 10350.0 | 11924.3 | 12183.7 | 13349.2 | 8257.1  |
| 55°   | 9960.6 | 10002.0 | 10361.6 | 10607.4 | 10835.0 | 10697.1 | 10916.9 | 12580.9 | 12861.4 | 14174.4 | 8852.9  |
| 57.5° | 9313.7 | 9397.6  | 10020.3 | 10660.5 | 11604.3 | 11659.2 | 11695.9 | 13254.7 | 13506.3 | 14806.8 | 9472.8  |
| 60°   | 7678.7 | 7695.0  | 8716.9  | 9815.0  | 11477.0 | 12498.9 | 12833.4 | 13978.7 | 14189.9 | 15395.9 | 10215.1 |
| 62.5° | 4883.9 | 5050.7  | 6171.8  | 7722.0  | 10131.2 | 12377.4 | 14209.1 | 15073.9 | 15151.0 | 16102.5 | 11279.4 |
| 65°   | 2326.3 | 2434.2  | 3242.1  | 4771.1  | 7338.3  | 10822.4 | 15158.7 | 17055.0 | 17089.7 | 17503.3 | 12701.4 |
| 67.5° | 1288.0 | 1340.0  | 1724.7  | 2568.2  | 4290.0  | 7653.6  | 14775.0 | 19401.5 | 19434.3 | 18933.9 | 13948.8 |
| 69°   | 1007.4 | 1051.8  | 1354.5  | 1935.8  | 2908.5  | 5500.9  | 13370.4 | 20088.9 | 20186.2 | 19343.7 | 13993.2 |
| 70°   | 855.1  | 898.5   | 1166.5  | 1635.0  | 2338.8  | 4250.5  | 11901.2 | 19918.2 | 20021.4 | 19305.1 | 13662.5 |
| 72.5° | 523.5  | 548.5   | 777.0   | 1151.1  | 1567.5  | 2138.3  | 7339.3  | 16844.8 | 17019.3 | 17708.6 | 11742.1 |
| 75°   | 352.8  | 366.3   | 485.9   | 794.4   | 1121.2  | 1100.9  | 3812.8  | 11873.2 | 12251.1 | 13775.3 | 8672.6  |
| 77.5° | 252.6  | 265.1   | 325.8   | 513.8   | 785.7   | 726.9   | 1726.6  | 7378.8  | 7459.8  | 8261.9  | 4729.6  |
| 80°   | 143.6  | 155.2   | 230.4   | 305.6   | 533.1   | 484.9   | 686.4   | 3524.6  | 3565.1  | 3542.9  | 1579.1  |
| 82.5° | 75.2   | 84.8    | 126.3   | 201.5   | 342.2   | 317.2   | 285.4   | 1180.0  | 1185.8  | 986.2   | 346.1   |
| 85°   | 14.5   | 17.4    | 62.7    | 137.9   | 176.4   | 137.9   | 116.7   | 276.7   | 282.5   | 249.7   | 85.8    |
| 87.5° | 0.0    | 1.0     | 25.1    | 30.8    | 34.7    | 35.7    | 37.6    | 54.0    | 57.8    | 78.1    | 23.1    |
| 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°    | 2309.9 | 2309.9 | 2309.9 | 2309.9 | 2309.9 | 2309.9 | 2309.9 | 2309.9 | 2309.9 | 2309.9 | 2309.9 |
| 2.5°  | 2320.5 | 2285.8 | 2219.2 | 2142.1 | 2082.3 | 2023.5 | 1977.3 | 1929.1 | 1911.7 | 1903.0 | 1902.1 |
| 5°    | 2343.6 | 2270.3 | 2129.6 | 1985.0 | 1866.4 | 1754.6 | 1674.6 | 1598.4 | 1562.7 | 1546.3 | 1539.6 |
| 7.5°  | 2382.2 | 2264.6 | 2038.0 | 1817.2 | 1646.6 | 1506.8 | 1395.9 | 1313.0 | 1271.6 | 1254.2 | 1247.5 |
| 10°   | 2427.5 | 2256.8 | 1931.0 | 1639.8 | 1422.0 | 1277.4 | 1167.5 | 1085.5 | 1040.2 | 1020.9 | 1011.3 |
| 12.5° | 2480.5 | 2243.3 | 1807.6 | 1460.5 | 1230.1 | 1085.5 | 952.5  | 851.3  | 799.2  | 777.0  | 766.4  |
| 15°   | 2546.1 | 2229.8 | 1678.4 | 1291.8 | 1061.4 | 885.0  | 739.4  | 671.0  | 660.4  | 656.5  | 657.5  |
| 17.5° | 2610.6 | 2208.6 | 1537.7 | 1125.0 | 884.0  | 691.2  | 617.0  | 613.1  | 615.1  | 615.1  | 615.1  |
| 20°   | 2668.5 | 2160.4 | 1384.4 | 982.4  | 715.3  | 583.3  | 567.8  | 561.1  | 556.3  | 552.4  | 547.6  |
| 22.5° | 2713.8 | 2095.8 | 1236.9 | 840.7  | 584.2  | 534.1  | 510.0  | 488.8  | 471.4  | 459.9  | 454.1  |
| 25°   | 2744.7 | 2010.0 | 1101.9 | 704.7  | 525.4  | 485.9  | 442.5  | 406.8  | 379.8  | 363.4  | 356.7  |
| 27.5° | 2767.8 | 1917.5 | 981.4  | 590.0  | 484.9  | 430.0  | 373.1  | 330.7  | 302.7  | 288.3  | 282.5  |
| 30°   | 2784.2 | 1812.4 | 875.4  | 518.7  | 439.6  | 371.2  | 310.4  | 269.0  | 248.7  | 241.0  | 237.2  |
| 32.5° | 2799.6 | 1695.8 | 775.1  | 484.9  | 397.2  | 317.2  | 260.3  | 228.5  | 215.9  | 206.3  | 203.4  |
| 35°   | 2838.2 | 1587.8 | 679.7  | 449.2  | 353.8  | 270.9  | 223.7  | 200.5  | 188.0  | 182.2  | 180.3  |
| 37.5° | 2929.7 | 1507.8 | 588.1  | 412.6  | 310.4  | 234.3  | 195.7  | 179.3  | 167.7  | 162.0  | 160.0  |
| 40°   | 3077.2 | 1467.3 | 510.9  | 373.1  | 268.0  | 206.3  | 177.4  | 162.0  | 149.4  | 140.8  | 138.8  |
| 42.5° | 3294.2 | 1473.1 | 457.0  | 333.6  | 234.3  | 184.1  | 160.0  | 141.7  | 128.2  | 120.5  | 118.6  |
| 45°   | 3557.3 | 1515.5 | 419.4  | 295.0  | 206.3  | 166.8  | 140.8  | 121.5  | 108.9  | 102.2  | 100.3  |
| 47.5° | 3842.7 | 1583.9 | 388.5  | 260.3  | 184.1  | 150.4  | 121.5  | 101.2  | 90.6   | 84.8   | 83.9   |
| 50°   | 4143.5 | 1650.5 | 356.7  | 226.6  | 164.9  | 134.0  | 102.2  | 83.9   | 75.2   | 70.4   | 68.4   |
| 52.5° | 4448.1 | 1727.6 | 327.8  | 195.7  | 148.5  | 114.7  | 84.8   | 68.4   | 61.7   | 57.8   | 55.9   |
| 55°   | 4775.9 | 1785.4 | 299.8  | 171.6  | 132.1  | 97.4   | 70.4   | 56.9   | 51.1   | 46.3   | 45.3   |
| 57.5° | 5161.5 | 1875.1 | 270.9  | 148.5  | 112.8  | 81.0   | 57.8   | 45.3   | 40.5   | 35.7   | 34.7   |
| 60°   | 5682.1 | 1980.2 | 240.0  | 131.1  | 92.5   | 66.5   | 47.2   | 36.6   | 30.8   | 27.0   | 26.0   |
| 62.5° | 6368.5 | 2096.8 | 201.5  | 114.7  | 75.2   | 54.0   | 37.6   | 28.9   | 22.2   | 17.4   | 17.4   |
| 65°   | 7239.1 | 2286.7 | 164.9  | 96.4   | 61.7   | 44.3   | 28.9   | 21.2   | 12.5   | 7.7    | 7.7    |
| 67.5° | 7747.1 | 2319.5 | 133.0  | 79.1   | 50.1   | 37.6   | 24.1   | 14.5   | 3.9    | 1.0    | 0.0    |
| 69°   | 7584.2 | 2129.6 | 112.8  | 67.5   | 43.4   | 35.7   | 22.2   | 10.6   | 1.9    | 0.0    | 0.0    |
| 70°   | 7277.6 | 1947.4 | 99.3   | 59.8   | 39.5   | 33.7   | 21.2   | 7.7    | 1.9    | 0.0    | 0.0    |
| 72.5° | 6013.7 | 1386.3 | 75.2   | 44.3   | 28.9   | 29.9   | 19.3   | 4.8    | 1.9    | 0.0    | 0.0    |
| 75°   | 4380.6 | 842.6  | 54.0   | 30.8   | 18.3   | 22.2   | 13.5   | 1.9    | 1.0    | 0.0    | 0.0    |
| 77.5° | 2437.1 | 397.2  | 33.7   | 17.4   | 11.6   | 13.5   | 6.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 791.5  | 108.0  | 15.4   | 9.6    | 6.7    | 7.7    | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 146.5  | 30.8   | 8.7    | 4.8    | 1.9    | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 31.8   | 12.5   | 4.8    | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 10.6   | 3.9    | 1.0    | 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)