

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: P383055

Luminaire Tested: **GAN-SA4A-735-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383055  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4A-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17513.1 lumens  
Efficiency: N/A  
Efficacy: 135.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

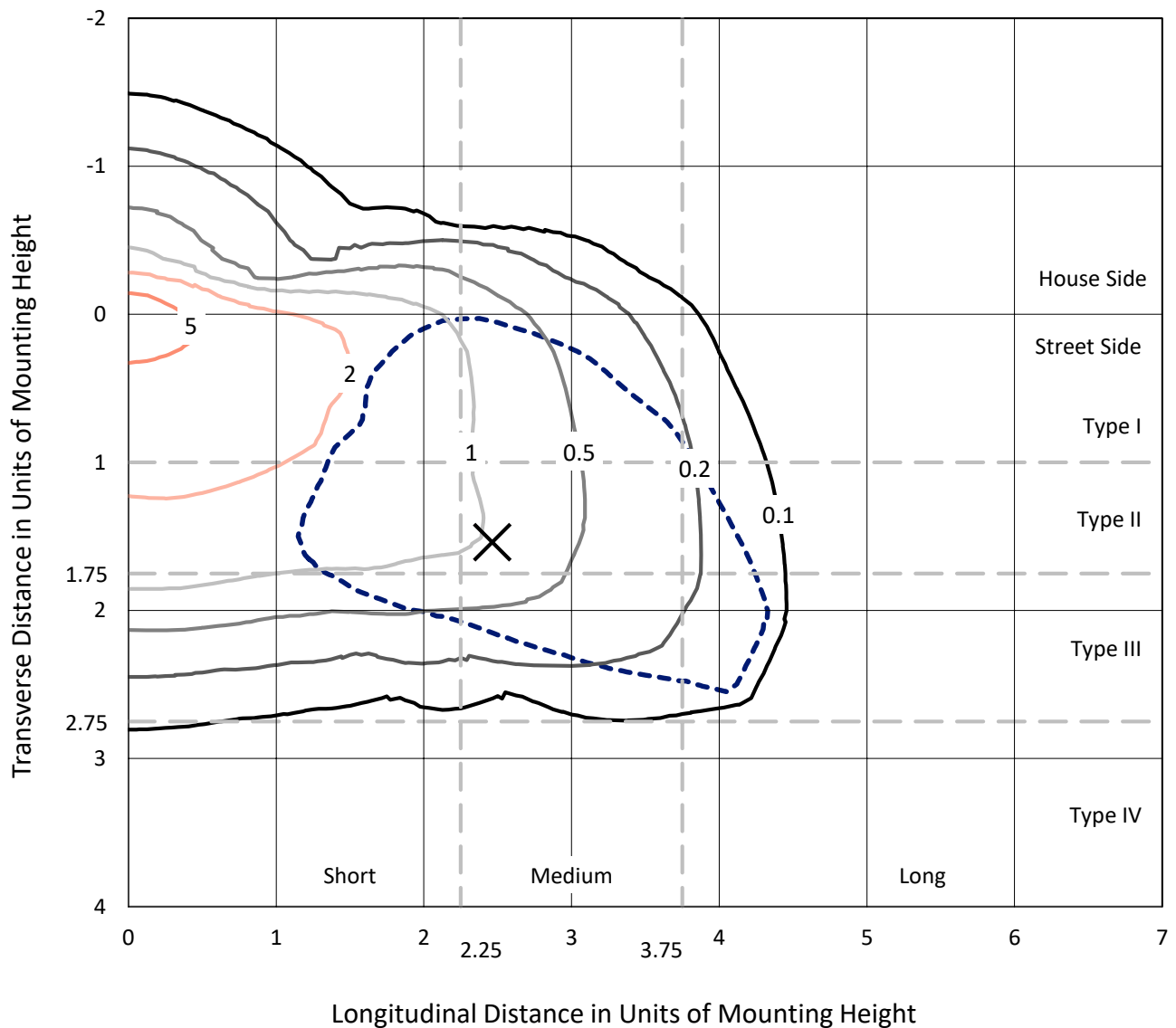
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

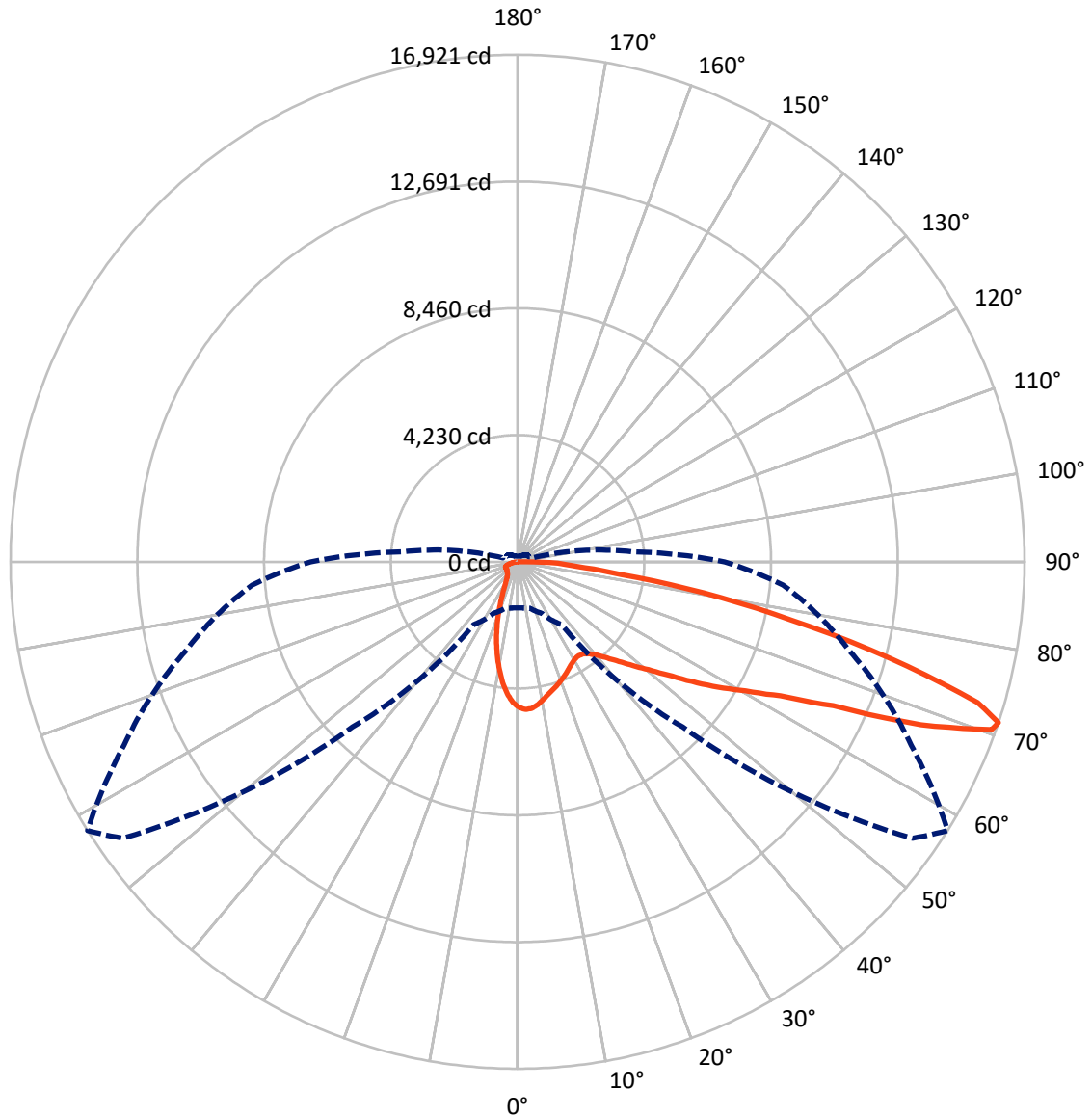
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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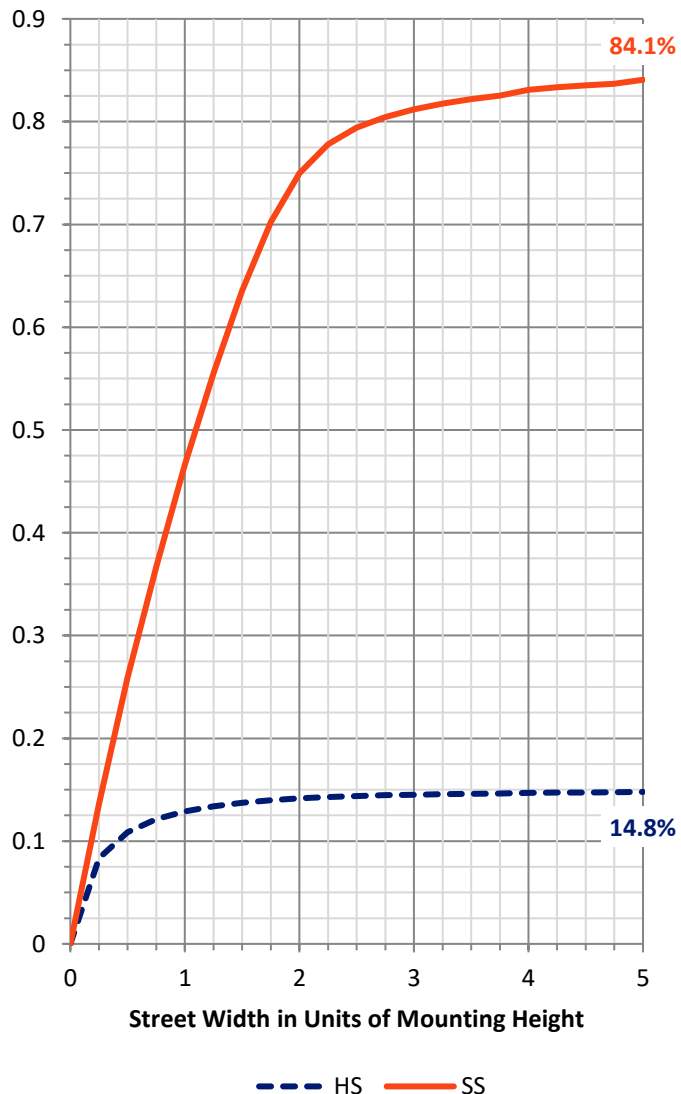
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2618.3   | 0.0    | 2618.3  |
|                    | % Fixture | 15.0     | 0.0    | 15.0    |
| <b>Street Side</b> | Lumens    | 14894.8  | 0.0    | 14894.8 |
|                    | % Fixture | 85.0     | 0.0    | 85.0    |
| <b>Total</b>       | Lumens    | 17513.1  | 0.0    | 17513.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 418.6   | 2.4       |
| 10°-20°   | 930.8   | 5.3       |
| 20°-30°   | 1183.0  | 6.8       |
| 30°-40°   | 1506.9  | 8.6       |
| 40°-50°   | 2136.8  | 12.2      |
| 50°-60°   | 3306.8  | 18.9      |
| 60°-70°   | 4501.8  | 25.7      |
| 70°-80°   | 3003.2  | 17.1      |
| 80°-90°   | 525.1   | 3.0       |
| 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°    | 17513.1 | 100.0     |
| 0°-180°   | 17513.1 | 100.0     |

**Coefficient of Utilization**

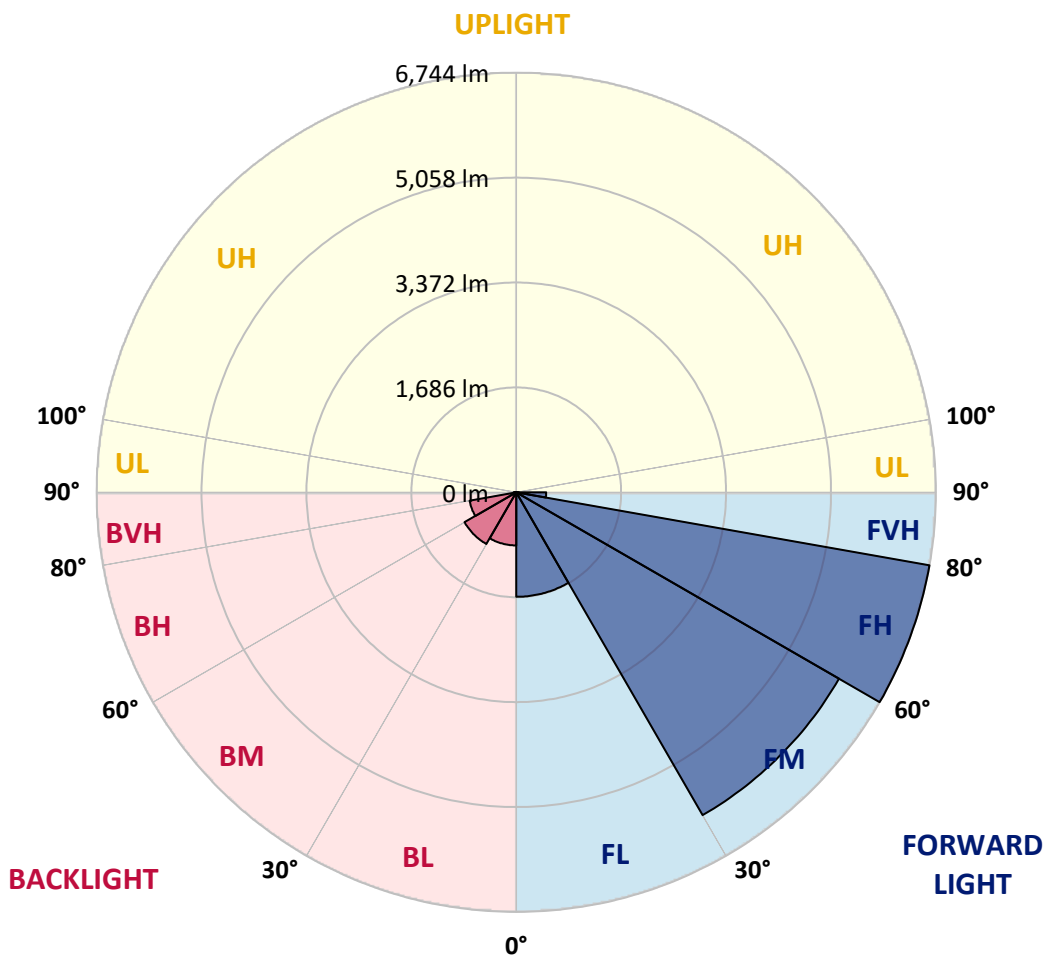


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1678.9 | 9.6       |                         |      |         |
| FM (30°-60°)   | 5990.3 | 34.2      |                         |      |         |
| FH (60°-80°)   | 6744.1 | 38.5      |                         |      | G3/7500 |
| FVH (80°-90°)  | 481.4  | 2.7       |                         |      | G3/500  |
| BL (0°-30°)    | 853.5  | 4.9       | B2/1000                 |      |         |
| BM (30°-60°)   | 960.2  | 5.5       | B1/1000                 |      |         |
| BH (60°-80°)   | 761.0  | 4.3       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 43.6   | 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-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 58°     | 65°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0°    | 4852.3 | 4852.3 | 4852.3 | 4852.3 | 4852.3 | 4852.3  | 4852.3  | 4852.3  | 4852.3  | 4852.3  | 4852.3 |
| 2.5°  | 4981.0 | 4974.3 | 4976.8 | 4971.9 | 4960.3 | 4948.7  | 4931.6  | 4934.7  | 4910.8  | 4875.4  | 4831.6 |
| 5°    | 4887.1 | 4884.7 | 4902.9 | 4913.3 | 4921.8 | 4915.1  | 4910.3  | 4916.3  | 4881.6  | 4832.8  | 4756.5 |
| 7.5°  | 4690.1 | 4663.1 | 4686.3 | 4721.2 | 4754.1 | 4779.1  | 4812.0  | 4816.3  | 4794.3  | 4743.1  | 4643.0 |
| 10°   | 4410.0 | 4384.4 | 4418.5 | 4472.8 | 4538.8 | 4598.5  | 4665.0  | 4677.2  | 4681.5  | 4635.1  | 4513.7 |
| 12.5° | 4119.7 | 4100.1 | 4134.3 | 4210.5 | 4319.8 | 4411.8  | 4518.0  | 4536.3  | 4574.1  | 4543.0  | 4394.1 |
| 15°   | 3859.8 | 3852.4 | 3894.0 | 3969.0 | 4094.6 | 4235.6  | 4388.7  | 4422.2  | 4486.2  | 4475.9  | 4300.9 |
| 17.5° | 3635.3 | 3633.4 | 3665.2 | 3743.9 | 3883.0 | 4061.1  | 4260.0  | 4316.7  | 4411.8  | 4424.0  | 4223.9 |
| 20°   | 3468.2 | 3464.4 | 3486.4 | 3544.4 | 3687.7 | 3889.7  | 4120.9  | 4199.0  | 4336.2  | 4378.9  | 4144.6 |
| 22.5° | 3378.4 | 3377.8 | 3378.4 | 3405.9 | 3523.0 | 3710.9  | 3985.4  | 4080.6  | 4262.4  | 4342.9  | 4056.8 |
| 25°   | 3363.2 | 3361.3 | 3347.9 | 3344.9 | 3411.3 | 3561.4  | 3851.2  | 3956.1  | 4192.2  | 4317.9  | 3973.2 |
| 27.5° | 3402.9 | 3405.3 | 3387.6 | 3358.9 | 3372.3 | 3463.2  | 3734.7  | 3846.9  | 4136.1  | 4313.0  | 3915.3 |
| 30°   | 3485.2 | 3484.0 | 3468.7 | 3438.8 | 3412.6 | 3426.6  | 3651.8  | 3764.0  | 4098.3  | 4334.4  | 3875.6 |
| 32.5° | 3576.1 | 3582.8 | 3579.8 | 3563.3 | 3524.2 | 3468.2  | 3626.7  | 3736.5  | 4087.3  | 4385.6  | 3858.6 |
| 35°   | 3685.3 | 3692.6 | 3714.5 | 3727.4 | 3681.7 | 3591.3  | 3680.4  | 3775.6  | 4119.0  | 4482.0  | 3886.0 |
| 37.5° | 3789.0 | 3807.9 | 3869.6 | 3923.8 | 3884.7 | 3784.1  | 3823.2  | 3890.9  | 4217.2  | 4633.9  | 3959.8 |
| 40°   | 3908.6 | 3925.1 | 4025.7 | 4141.0 | 4134.9 | 4030.5  | 4053.2  | 4098.3  | 4390.5  | 4851.7  | 4093.4 |
| 42.5° | 4026.3 | 4059.2 | 4205.0 | 4368.5 | 4415.5 | 4323.4  | 4359.4  | 4383.2  | 4634.5  | 5140.3  | 4326.5 |
| 45°   | 4183.1 | 4218.4 | 4421.0 | 4618.1 | 4727.9 | 4676.0  | 4733.4  | 4742.5  | 4941.4  | 5533.1  | 4665.0 |
| 47.5° | 4420.4 | 4460.6 | 4696.8 | 4903.6 | 5071.3 | 5076.7  | 5171.4  | 5167.7  | 5324.4  | 5982.7  | 5091.5 |
| 50°   | 4790.1 | 4848.1 | 5041.4 | 5234.8 | 5438.6 | 5552.0  | 5678.3  | 5660.6  | 5783.8  | 6461.6  | 5582.5 |
| 52.5° | 5274.4 | 5301.3 | 5444.6 | 5587.4 | 5840.6 | 6094.9  | 6276.1  | 6260.3  | 6304.8  | 6953.9  | 6140.1 |
| 55°   | 5776.5 | 5796.6 | 5855.8 | 5933.9 | 6274.3 | 6689.2  | 7072.2  | 7047.3  | 6934.3  | 7465.1  | 6690.9 |
| 57.5° | 6228.0 | 6268.8 | 6309.7 | 6342.1 | 6711.1 | 7310.1  | 7886.7  | 7888.5  | 7617.6  | 8016.6  | 7260.1 |
| 60°   | 6298.1 | 6334.1 | 6604.4 | 6859.4 | 7458.4 | 8138.7  | 8758.4  | 8740.2  | 8324.7  | 8615.0  | 7894.6 |
| 62.5° | 5567.3 | 5648.4 | 6099.9 | 6778.2 | 8178.2 | 9654.0  | 9870.5  | 9847.9  | 9170.2  | 9352.6  | 8633.4 |
| 65°   | 3989.7 | 4081.9 | 4626.6 | 5645.9 | 7829.3 | 11323.6 | 11877.6 | 11573.7 | 10323.2 | 10259.7 | 9498.4 |
| 67.5° | 2301.7 | 2323.7 | 2559.7 | 3378.4 | 5961.3 | 11410.9 | 14939.4 | 14514.2 | 12113.7 | 11288.9 | 9921.7 |
| 70°   | 1702.0 | 1701.4 | 1757.6 | 2079.0 | 3225.9 | 9313.0  | 16395.6 | 16776.9 | 13998.7 | 11627.5 | 9323.3 |
| 71°   | 1539.1 | 1541.0 | 1603.8 | 1892.3 | 2554.9 | 7795.2  | 16086.2 | 16920.8 | 14495.3 | 11460.3 | 8890.2 |
| 72.5° | 1316.5 | 1322.6 | 1409.8 | 1697.2 | 2149.2 | 5375.7  | 14753.9 | 16057.0 | 14730.7 | 11047.9 | 8212.4 |
| 75°   | 998.6  | 1012.7 | 1133.5 | 1430.6 | 1964.4 | 2726.3  | 10828.3 | 12821.9 | 13086.1 | 9748.6  | 6102.3 |
| 77.5° | 712.5  | 728.4  | 865.0  | 1203.0 | 1867.4 | 2054.6  | 7251.6  | 9352.6  | 9630.2  | 6247.5  | 2752.5 |
| 80°   | 450.2  | 469.1  | 572.2  | 957.2  | 1754.5 | 1950.9  | 4557.0  | 6286.5  | 5251.2  | 1999.1  | 700.3  |
| 82.5° | 264.2  | 278.8  | 355.0  | 625.3  | 1433.0 | 1878.9  | 2681.2  | 3484.5  | 2043.6  | 603.9   | 318.4  |
| 85°   | 153.1  | 159.9  | 221.4  | 398.3  | 1040.7 | 1773.4  | 1969.9  | 1947.9  | 887.0   | 295.3   | 150.7  |
| 87.5° | 71.4   | 79.3   | 131.2  | 208.0  | 577.7  | 1285.3  | 1556.8  | 1345.2  | 551.5   | 138.5   | 70.8   |
| 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°    | 4852.3 | 4852.3 | 4852.3 | 4852.3 | 4852.3 | 4852.3 | 4852.3 | 4852.3 | 4852.3 | 4852.3 | 4852.3 |
| 2.5°  | 4810.2 | 4799.8 | 4756.5 | 4718.1 | 4677.9 | 4625.3 | 4567.4 | 4560.1 | 4524.7 | 4531.4 | 4519.2 |
| 5°    | 4715.0 | 4688.9 | 4584.5 | 4490.0 | 4378.3 | 4278.2 | 4169.7 | 4119.7 | 4047.7 | 4042.7 | 4024.5 |
| 7.5°  | 4579.0 | 4530.2 | 4368.5 | 4189.2 | 4009.8 | 3839.0 | 3670.0 | 3559.0 | 3445.5 | 3397.4 | 3393.1 |
| 10°   | 4425.9 | 4342.9 | 4105.0 | 3839.7 | 3581.0 | 3331.5 | 3089.9 | 2911.2 | 2750.1 | 2673.8 | 2670.7 |
| 12.5° | 4280.6 | 4158.1 | 3831.7 | 3470.6 | 3116.7 | 2793.4 | 2462.2 | 2227.2 | 2025.4 | 1957.6 | 1929.0 |
| 15°   | 4157.5 | 3984.8 | 3565.7 | 3103.9 | 2674.5 | 2225.5 | 1848.5 | 1601.3 | 1414.6 | 1350.0 | 1337.8 |
| 17.5° | 4037.9 | 3815.8 | 3293.0 | 2733.6 | 2214.5 | 1720.9 | 1343.3 | 1159.7 | 1060.3 | 1034.0 | 1033.5 |
| 20°   | 3918.9 | 3642.0 | 3008.2 | 2354.8 | 1769.8 | 1287.2 | 1032.8 | 950.5  | 916.9  | 913.8  | 909.0  |
| 22.5° | 3784.1 | 3457.7 | 2708.6 | 1974.7 | 1381.1 | 1012.0 | 877.9  | 844.9  | 840.6  | 851.6  | 851.6  |
| 25°   | 3657.8 | 3274.8 | 2404.8 | 1602.6 | 1074.3 | 844.3  | 783.9  | 777.2  | 788.8  | 808.3  | 810.2  |
| 27.5° | 3540.1 | 3098.4 | 2108.3 | 1271.9 | 860.7  | 743.7  | 718.6  | 726.6  | 747.3  | 769.8  | 770.5  |
| 30°   | 3443.1 | 2931.9 | 1820.3 | 1002.3 | 727.2  | 668.6  | 664.4  | 680.2  | 702.8  | 720.5  | 724.7  |
| 32.5° | 3368.1 | 2789.7 | 1542.2 | 805.9  | 640.0  | 612.5  | 616.1  | 629.5  | 643.6  | 653.4  | 660.1  |
| 35°   | 3333.3 | 2667.8 | 1285.3 | 679.6  | 584.5  | 569.2  | 574.0  | 581.4  | 587.4  | 594.8  | 600.3  |
| 37.5° | 3339.4 | 2573.2 | 1056.0 | 600.8  | 547.2  | 539.3  | 539.3  | 539.3  | 539.3  | 542.9  | 543.6  |
| 40°   | 3396.1 | 2518.9 | 869.3  | 550.8  | 522.2  | 513.7  | 506.9  | 500.9  | 496.0  | 498.4  | 497.2  |
| 42.5° | 3541.3 | 2514.0 | 732.7  | 519.2  | 502.1  | 488.0  | 474.6  | 466.1  | 460.0  | 462.4  | 463.6  |
| 45°   | 3787.8 | 2575.0 | 640.5  | 496.6  | 483.2  | 461.8  | 444.7  | 435.6  | 431.3  | 439.2  | 440.4  |
| 47.5° | 4106.8 | 2708.0 | 584.5  | 480.1  | 465.5  | 437.4  | 419.1  | 410.5  | 411.7  | 423.4  | 426.5  |
| 50°   | 4518.0 | 2923.9 | 557.6  | 469.8  | 453.3  | 416.7  | 397.8  | 390.4  | 394.0  | 410.5  | 414.3  |
| 52.5° | 4969.4 | 3235.1 | 560.6  | 466.7  | 445.4  | 401.4  | 381.3  | 372.7  | 378.9  | 394.0  | 397.1  |
| 55°   | 5490.4 | 3609.0 | 611.3  | 471.0  | 433.7  | 391.6  | 367.9  | 353.2  | 358.1  | 372.2  | 374.6  |
| 57.5° | 6069.3 | 4037.2 | 713.1  | 469.8  | 419.1  | 382.5  | 353.8  | 331.9  | 335.5  | 344.0  | 346.5  |
| 60°   | 6672.0 | 4554.6 | 871.2  | 473.4  | 412.4  | 371.5  | 334.9  | 307.5  | 306.2  | 313.6  | 314.8  |
| 62.5° | 7395.6 | 5153.0 | 1051.7 | 475.8  | 416.7  | 357.5  | 309.9  | 283.1  | 279.4  | 281.2  | 282.4  |
| 65°   | 8141.1 | 5586.2 | 984.0  | 466.1  | 430.1  | 345.9  | 287.9  | 259.2  | 252.5  | 251.3  | 252.0  |
| 67.5° | 8164.3 | 5121.9 | 690.0  | 446.6  | 435.6  | 339.8  | 271.5  | 239.1  | 228.1  | 223.9  | 223.3  |
| 70°   | 7321.8 | 4161.1 | 537.4  | 425.8  | 413.6  | 330.0  | 256.2  | 222.6  | 206.2  | 199.4  | 198.9  |
| 71°   | 6910.6 | 3830.4 | 509.4  | 415.5  | 397.1  | 320.3  | 249.5  | 215.4  | 198.2  | 191.0  | 189.8  |
| 72.5° | 6265.8 | 3434.0 | 475.2  | 399.0  | 365.4  | 295.3  | 236.7  | 204.9  | 187.2  | 178.8  | 176.9  |
| 75°   | 4496.7 | 2245.6 | 408.1  | 355.7  | 302.6  | 235.5  | 207.5  | 184.3  | 169.0  | 158.6  | 157.4  |
| 77.5° | 1732.5 | 893.7  | 308.7  | 295.9  | 231.9  | 184.3  | 170.8  | 159.2  | 148.2  | 137.9  | 137.2  |
| 80°   | 535.6  | 399.5  | 225.1  | 222.6  | 167.8  | 137.2  | 133.0  | 130.0  | 125.7  | 114.7  | 112.3  |
| 82.5° | 286.1  | 229.3  | 154.9  | 143.9  | 109.8  | 91.5   | 96.4   | 97.6   | 98.2   | 86.6   | 85.4   |
| 85°   | 136.7  | 121.4  | 87.2   | 81.8   | 64.1   | 51.2   | 59.2   | 64.1   | 64.6   | 53.1   | 49.4   |
| 87.5° | 65.3   | 63.4   | 40.9   | 31.1   | 23.8   | 17.0   | 20.8   | 25.6   | 28.0   | 20.1   | 17.7   |
| 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)