

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: P653018

Luminaire Tested: **GLAN-SA7C-840-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653018  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7C-840-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1050mA 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: 30235.6 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

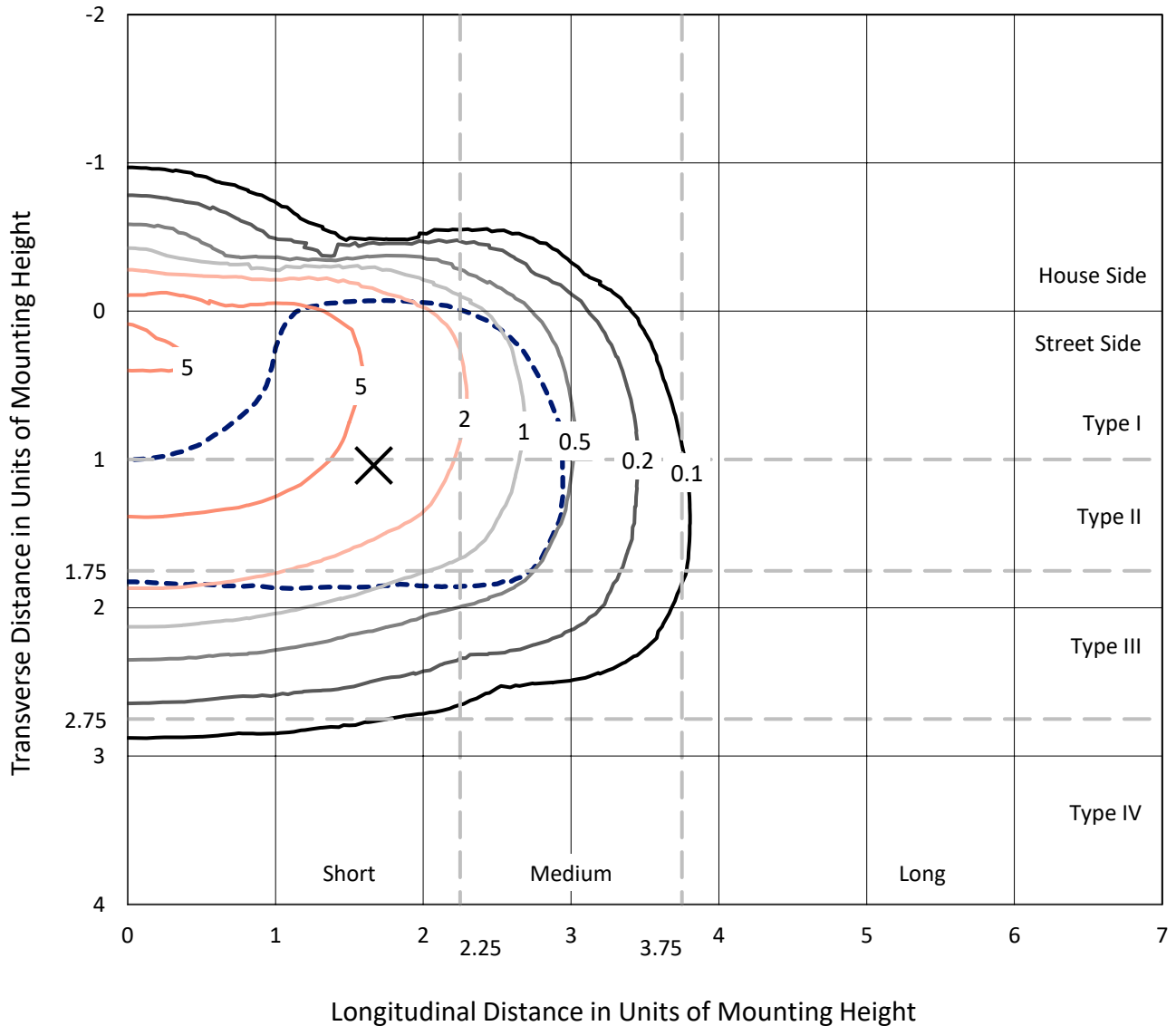
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

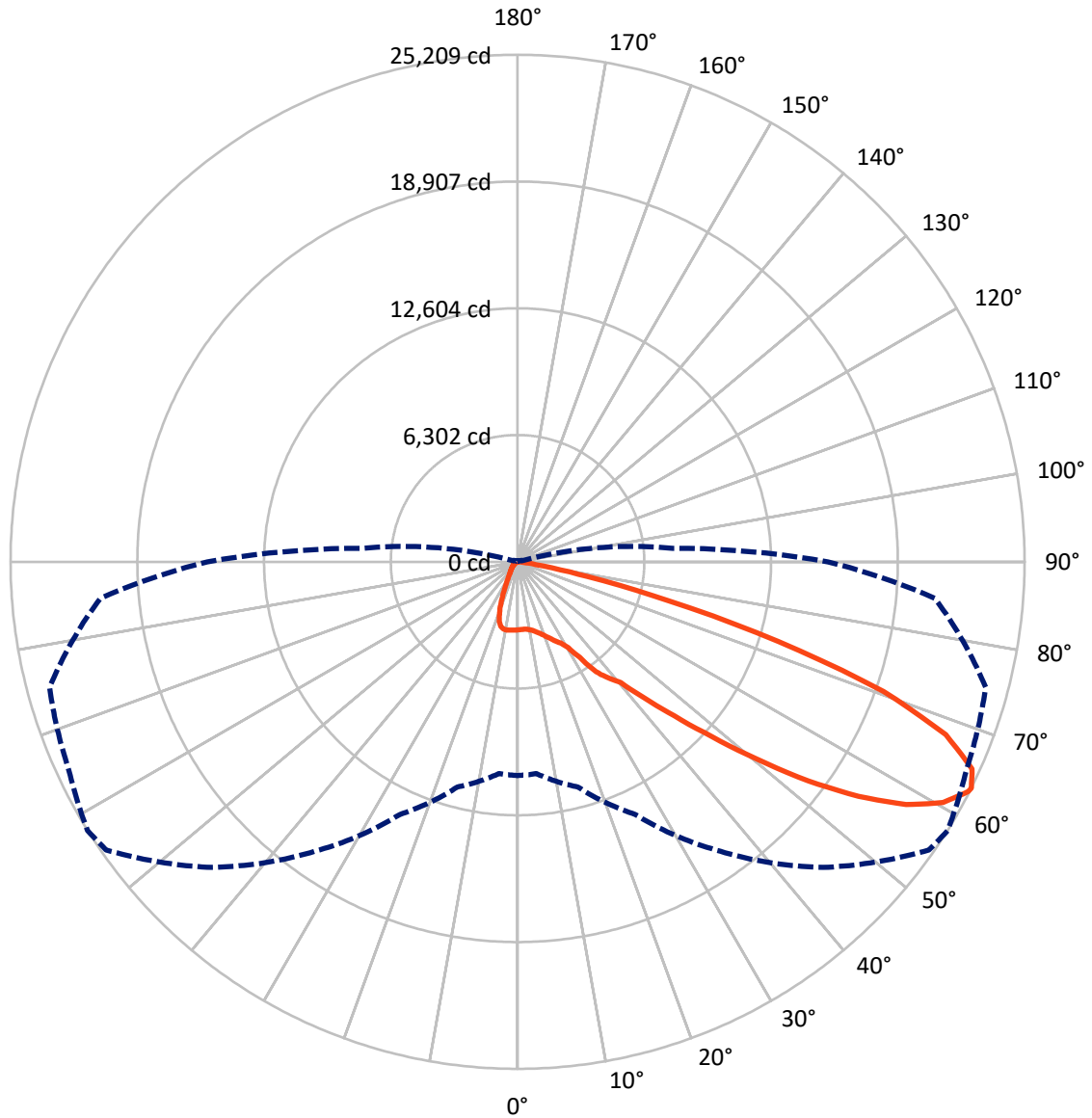
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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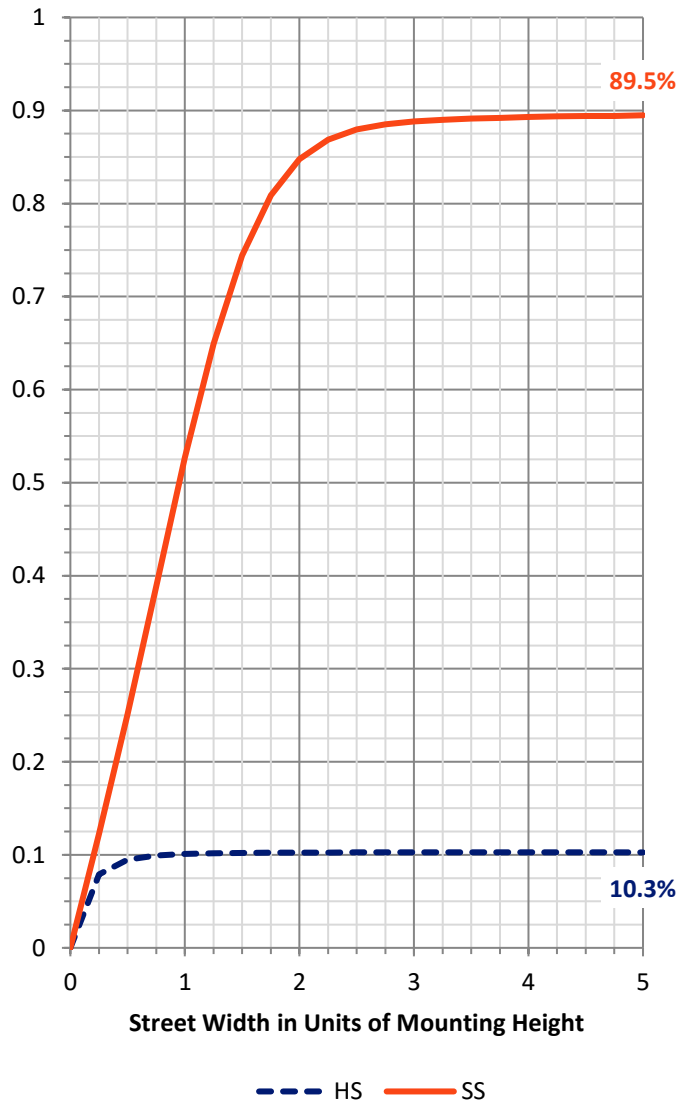
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3130.7   | 0.0    | 3130.7  |
|                    | % Fixture | 10.4     | 0.0    | 10.4    |
| <b>Street Side</b> | Lumens    | 27104.9  | 0.0    | 27104.9 |
|                    | % Fixture | 89.6     | 0.0    | 89.6    |
| <b>Total</b>       | Lumens    | 30235.6  | 0.0    | 30235.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 316.9   | 1.0       |
| 10°-20°   | 863.1   | 2.9       |
| 20°-30°   | 1497.9  | 5.0       |
| 30°-40°   | 2752.6  | 9.1       |
| 40°-50°   | 5181.6  | 17.1      |
| 50°-60°   | 8862.8  | 29.3      |
| 60°-70°   | 8486.1  | 28.1      |
| 70°-80°   | 2164.0  | 7.2       |
| 80°-90°   | 110.6   | 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°    | 30235.6 | 100.0     |
| 0°-180°   | 30235.6 | 100.0     |

**Coefficient of Utilization**

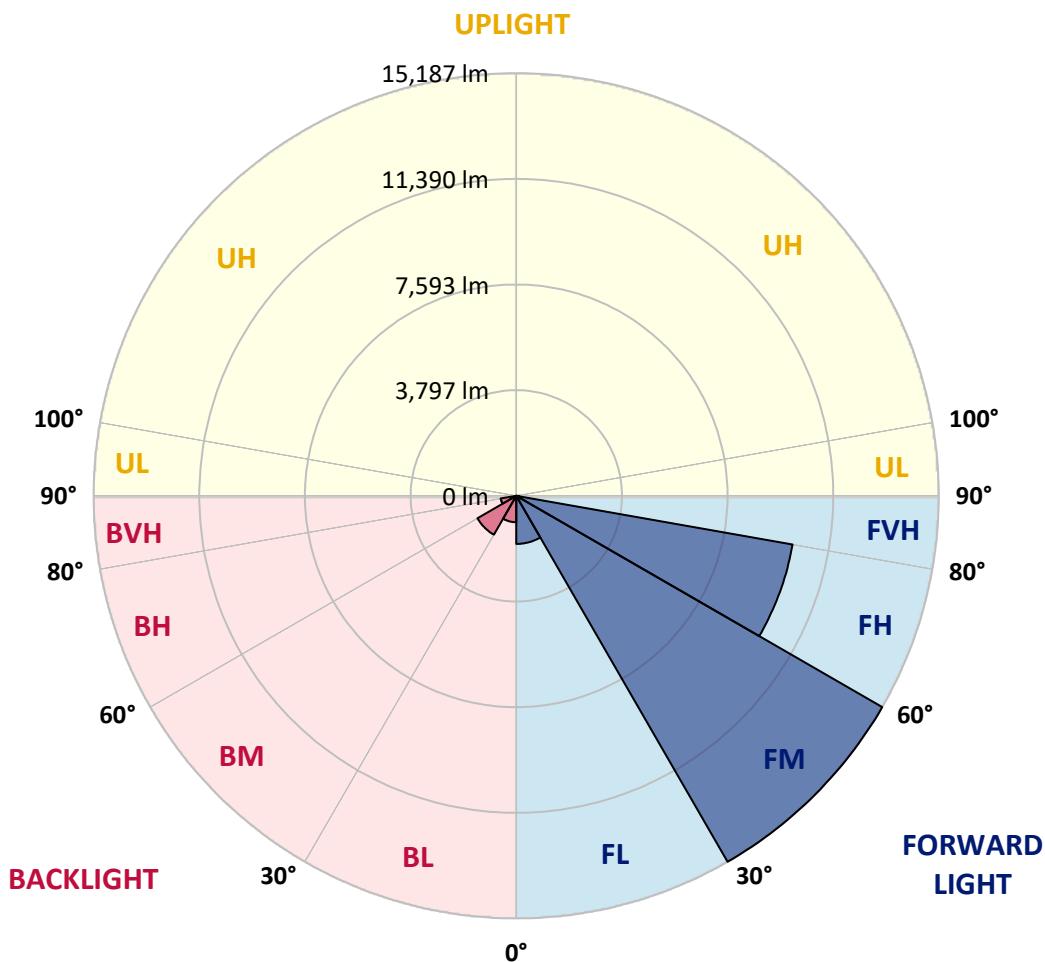


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1728.4  | 5.7       |                         |      |          |
| FM (30°-60°)   | 15186.8 | 50.2      |                         |      |          |
| FH (60°-80°)   | 10083.4 | 33.3      |                         |      | G4/12000 |
| FVH (80°-90°)  | 106.4   | 0.4       |                         |      | G2/225   |
| BL (0°-30°)    | 949.5   | 3.1       | B2/1000                 |      |          |
| BM (30°-60°)   | 1610.3  | 5.3       | B2/2500                 |      |          |
| BH (60°-80°)   | 566.7   | 1.9       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 4.3     | 0.0       |                         |      | G0/10    |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3385.0  | 3385.0  | 3385.0  | 3385.0  | 3385.0  | 3385.0  | 3385.0  | 3385.0  | 3385.0  | 3385.0  | 3385.0  |
| 2.5°  | 3300.8  | 3312.1  | 3323.5  | 3328.1  | 3344.0  | 3360.0  | 3371.3  | 3369.0  | 3387.3  | 3396.4  | 3396.4  |
| 5°    | 3168.7  | 3168.7  | 3198.3  | 3225.7  | 3271.2  | 3316.7  | 3360.0  | 3369.0  | 3403.2  | 3435.1  | 3446.4  |
| 7.5°  | 3057.2  | 3064.0  | 3086.8  | 3136.8  | 3198.3  | 3278.0  | 3364.5  | 3385.0  | 3444.1  | 3514.8  | 3544.3  |
| 10°   | 3004.8  | 3009.4  | 3039.0  | 3091.3  | 3168.7  | 3278.0  | 3398.6  | 3437.3  | 3528.4  | 3639.9  | 3680.9  |
| 12.5° | 2993.5  | 3000.3  | 3029.9  | 3089.1  | 3177.8  | 3309.8  | 3473.8  | 3514.8  | 3646.7  | 3790.2  | 3851.7  |
| 15°   | 3014.0  | 3018.5  | 3048.1  | 3111.9  | 3209.7  | 3366.8  | 3573.9  | 3630.8  | 3787.9  | 3954.1  | 4033.8  |
| 17.5° | 3086.8  | 3082.3  | 3102.7  | 3155.1  | 3264.3  | 3437.3  | 3694.6  | 3762.9  | 3947.2  | 4174.9  | 4227.3  |
| 20°   | 3396.4  | 3366.8  | 3348.6  | 3303.0  | 3346.3  | 3537.5  | 3840.3  | 3940.4  | 4168.1  | 4400.3  | 4436.7  |
| 22.5° | 4063.4  | 3997.4  | 3867.6  | 3690.1  | 3553.5  | 3674.1  | 4015.5  | 4131.7  | 4425.3  | 4652.9  | 4652.9  |
| 25°   | 4912.4  | 4828.3  | 4698.5  | 4311.5  | 3976.8  | 3899.5  | 4213.6  | 4359.3  | 4705.3  | 4935.2  | 4860.1  |
| 27.5° | 5975.6  | 5909.5  | 5656.8  | 5206.1  | 4694.0  | 4293.3  | 4443.5  | 4577.8  | 4953.4  | 5231.2  | 5074.1  |
| 30°   | 6840.5  | 6808.7  | 6601.5  | 6198.6  | 5634.1  | 5049.0  | 4871.5  | 4960.2  | 5283.5  | 5604.5  | 5442.9  |
| 32.5° | 7571.3  | 7571.3  | 7359.6  | 6984.0  | 6455.9  | 5936.9  | 5597.6  | 5661.4  | 5971.0  | 6342.1  | 6041.6  |
| 35°   | 8374.8  | 8347.5  | 8176.8  | 7819.4  | 7227.6  | 6770.0  | 6631.1  | 6717.7  | 6997.6  | 7273.1  | 6533.2  |
| 37.5° | 9219.4  | 9210.3  | 9032.8  | 8686.7  | 8204.1  | 7628.2  | 7302.7  | 7325.4  | 7468.8  | 7637.3  | 7109.1  |
| 40°   | 10136.7 | 10150.4 | 9918.2  | 9704.3  | 9249.0  | 8659.4  | 8035.7  | 7892.3  | 8026.6  | 8502.3  | 8172.2  |
| 42.5° | 11220.4 | 11188.5 | 11088.3 | 10796.9 | 10430.4 | 10077.6 | 9328.6  | 9276.3  | 9394.6  | 9904.6  | 9547.2  |
| 45°   | 12479.2 | 12524.7 | 12351.7 | 12190.0 | 11944.2 | 11650.5 | 11024.6 | 10933.5 | 11063.3 | 11855.5 | 11347.8 |
| 47.5° | 13740.3 | 13697.0 | 13808.6 | 13779.0 | 13911.1 | 13692.5 | 13139.4 | 12952.7 | 13264.5 | 14015.8 | 13269.1 |
| 50°   | 14700.9 | 14748.8 | 14980.9 | 15320.2 | 15886.9 | 16009.9 | 15479.4 | 15415.7 | 15554.6 | 16037.2 | 14987.8 |
| 52.5° | 15324.7 | 15484.0 | 15848.2 | 16720.1 | 17742.2 | 18536.6 | 18133.7 | 18099.6 | 18042.7 | 18172.4 | 16631.4 |
| 55°   | 15732.2 | 15893.8 | 16369.6 | 17653.4 | 19413.1 | 20703.8 | 20724.3 | 20578.6 | 20203.0 | 20109.7 | 18167.9 |
| 57.5° | 15481.7 | 15513.6 | 16191.9 | 17908.4 | 20339.6 | 22249.5 | 22918.8 | 22773.0 | 22078.8 | 21725.9 | 19524.7 |
| 60°   | 13915.6 | 13981.6 | 14926.3 | 16943.2 | 19936.7 | 22754.9 | 24373.4 | 24307.3 | 23547.0 | 23148.6 | 20580.9 |
| 62.5° | 11140.6 | 11331.9 | 12303.9 | 14553.0 | 18063.2 | 21903.4 | 24962.9 | 25149.6 | 24557.7 | 24009.1 | 20913.2 |
| 63°   | 10630.7 | 10569.3 | 11596.0 | 13856.4 | 17566.9 | 21482.3 | 24972.1 | 25208.8 | 24603.3 | 24091.0 | 20822.2 |
| 65°   | 7869.5  | 8053.8  | 8720.8  | 10926.7 | 14619.0 | 19522.4 | 24409.8 | 24828.6 | 24434.8 | 23729.2 | 19813.7 |
| 67.5° | 4418.4  | 4409.4  | 5146.9  | 7150.2  | 10232.4 | 15313.3 | 22071.9 | 22957.4 | 22875.5 | 21293.4 | 16424.1 |
| 70°   | 2162.5  | 2196.7  | 2499.5  | 3706.0  | 5934.5  | 10564.7 | 18340.9 | 19297.0 | 19326.6 | 16724.6 | 11356.9 |
| 72.5° | 978.8   | 994.8   | 1211.0  | 1805.2  | 3050.4  | 5624.9  | 12638.5 | 13551.4 | 13382.9 | 10658.1 | 6271.4  |
| 75°   | 516.7   | 550.9   | 667.0   | 908.3   | 1470.6  | 2319.6  | 6874.7  | 7758.0  | 7405.1  | 4869.2  | 2308.3  |
| 77.5° | 382.4   | 393.8   | 453.0   | 578.2   | 787.6   | 903.7   | 2966.1  | 3528.4  | 3305.3  | 1761.9  | 764.9   |
| 80°   | 280.0   | 289.1   | 336.9   | 409.7   | 496.3   | 459.9   | 1117.7  | 1281.6  | 1149.6  | 598.7   | 234.5   |
| 82.5° | 170.7   | 173.0   | 245.8   | 305.0   | 311.8   | 257.3   | 368.8   | 396.1   | 414.3   | 336.9   | 127.5   |
| 85°   | 61.5    | 77.4    | 166.2   | 220.8   | 184.3   | 129.8   | 154.8   | 170.7   | 186.7   | 214.0   | 75.1    |
| 87.5° | 6.8     | 9.1     | 79.6    | 107.0   | 52.4    | 47.8    | 56.9    | 63.7    | 68.3    | 79.6    | 36.4    |
| 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°    | 3385.0  | 3385.0 | 3385.0 | 3385.0 | 3385.0 | 3385.0 | 3385.0 | 3385.0 | 3385.0 | 3385.0 | 3385.0 |
| 2.5°  | 3405.5  | 3414.6 | 3407.7 | 3396.4 | 3394.1 | 3387.3 | 3373.6 | 3373.6 | 3373.6 | 3378.1 | 3373.6 |
| 5°    | 3455.6  | 3462.4 | 3446.4 | 3423.7 | 3398.6 | 3366.8 | 3332.6 | 3312.1 | 3309.8 | 3305.3 | 3293.9 |
| 7.5°  | 3551.2  | 3560.3 | 3523.9 | 3469.2 | 3400.9 | 3323.5 | 3250.7 | 3182.4 | 3150.6 | 3125.5 | 3125.5 |
| 10°   | 3690.1  | 3699.1 | 3626.3 | 3528.4 | 3391.8 | 3234.7 | 3061.7 | 2904.6 | 2781.8 | 2724.8 | 2711.2 |
| 12.5° | 3856.2  | 3860.8 | 3740.1 | 3569.4 | 3344.0 | 3041.2 | 2672.4 | 2328.7 | 2089.7 | 1980.5 | 1969.1 |
| 15°   | 4038.3  | 4006.4 | 3847.1 | 3585.4 | 3207.4 | 2642.9 | 2005.5 | 1584.4 | 1336.3 | 1263.4 | 1290.7 |
| 17.5° | 4222.7  | 4163.5 | 3929.1 | 3560.3 | 2900.1 | 2005.5 | 1347.6 | 1081.3 | 1003.9 | 983.4  | 983.4  |
| 20°   | 4395.7  | 4313.7 | 3988.3 | 3451.0 | 2367.4 | 1381.8 | 999.4  | 935.6  | 921.9  | 908.3  | 910.6  |
| 22.5° | 4568.7  | 4443.5 | 4040.6 | 3207.4 | 1764.2 | 987.9  | 894.7  | 874.1  | 855.9  | 837.7  | 835.4  |
| 25°   | 4737.2  | 4564.2 | 4061.1 | 2756.7 | 1202.0 | 849.1  | 817.2  | 789.9  | 753.5  | 733.0  | 728.5  |
| 27.5° | 4912.4  | 4709.9 | 4047.4 | 2187.6 | 876.4  | 760.3  | 728.5  | 689.8  | 646.5  | 610.1  | 610.1  |
| 30°   | 5249.4  | 4987.6 | 3999.6 | 1573.0 | 737.6  | 669.3  | 628.3  | 566.8  | 519.0  | 482.6  | 480.3  |
| 32.5° | 5709.2  | 5349.5 | 3835.7 | 1106.3 | 655.6  | 589.6  | 528.1  | 459.9  | 409.7  | 382.4  | 382.4  |
| 35°   | 6118.9  | 5713.8 | 3528.4 | 814.9  | 589.6  | 512.2  | 437.1  | 371.0  | 332.4  | 314.1  | 307.3  |
| 37.5° | 6742.6  | 6246.4 | 3105.0 | 662.5  | 525.9  | 443.9  | 366.5  | 305.0  | 273.2  | 259.5  | 259.5  |
| 40°   | 7678.2  | 6897.5 | 2586.0 | 580.5  | 464.4  | 377.9  | 305.0  | 257.3  | 232.2  | 216.2  | 216.2  |
| 42.5° | 8839.2  | 7694.2 | 2060.1 | 521.3  | 407.5  | 325.6  | 255.0  | 218.5  | 195.8  | 184.3  | 182.1  |
| 45°   | 10300.7 | 8534.2 | 1586.6 | 466.7  | 362.0  | 277.7  | 216.2  | 184.3  | 161.6  | 154.8  | 157.1  |
| 47.5° | 11825.9 | 9274.0 | 1229.3 | 418.8  | 314.1  | 234.5  | 184.3  | 159.4  | 143.4  | 134.3  | 134.3  |
| 50°   | 13127.9 | 9783.9 | 933.3  | 364.2  | 277.7  | 198.1  | 161.6  | 143.4  | 129.8  | 125.2  | 123.0  |
| 52.5° | 14216.1 | 9931.9 | 714.8  | 316.4  | 243.6  | 170.7  | 143.4  | 129.8  | 118.4  | 111.5  | 111.5  |
| 55°   | 15142.5 | 9802.1 | 560.0  | 266.3  | 204.9  | 147.9  | 127.5  | 116.1  | 102.4  | 95.6   | 93.4   |
| 57.5° | 15684.3 | 9385.6 | 428.0  | 220.8  | 166.2  | 123.0  | 111.5  | 97.9   | 81.9   | 70.6   | 70.6   |
| 60°   | 15957.6 | 8780.0 | 327.8  | 182.1  | 127.5  | 97.9   | 91.1   | 72.8   | 56.9   | 47.8   | 45.5   |
| 62.5° | 15629.7 | 7976.5 | 248.1  | 143.4  | 95.6   | 72.8   | 61.5   | 52.4   | 36.4   | 27.3   | 27.3   |
| 63°   | 15427.1 | 7744.3 | 239.0  | 136.6  | 88.8   | 68.3   | 56.9   | 47.8   | 31.9   | 25.1   | 22.8   |
| 65°   | 14063.5 | 6731.3 | 195.8  | 109.2  | 70.6   | 47.8   | 38.7   | 34.1   | 22.8   | 11.4   | 9.1    |
| 67.5° | 11168.0 | 5149.2 | 154.8  | 81.9   | 50.0   | 34.1   | 22.8   | 20.5   | 6.8    | 0.0    | 0.0    |
| 70°   | 7550.8  | 3325.8 | 120.7  | 59.2   | 34.1   | 20.5   | 11.4   | 9.1    | 2.3    | 0.0    | 0.0    |
| 72.5° | 3938.2  | 1705.0 | 93.4   | 43.2   | 20.5   | 13.6   | 6.8    | 2.3    | 0.0    | 0.0    | 0.0    |
| 75°   | 1393.1  | 580.5  | 68.3   | 27.3   | 13.6   | 6.8    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 421.2   | 216.2  | 43.2   | 20.5   | 9.1    | 4.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 147.9   | 79.6   | 25.1   | 13.6   | 6.8    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 72.8    | 38.7   | 15.9   | 11.4   | 6.8    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 41.0    | 25.1   | 13.6   | 11.4   | 6.8    | 4.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 29.6    | 18.2   | 13.6   | 11.4   | 9.1    | 4.5    | 2.3    | 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)