

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: P191053

Luminaire Tested: **GAN-AF-05-LED-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191053  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-05-LED-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25207.6 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G4

Input Watts (W): 279  
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: 28.75 FT

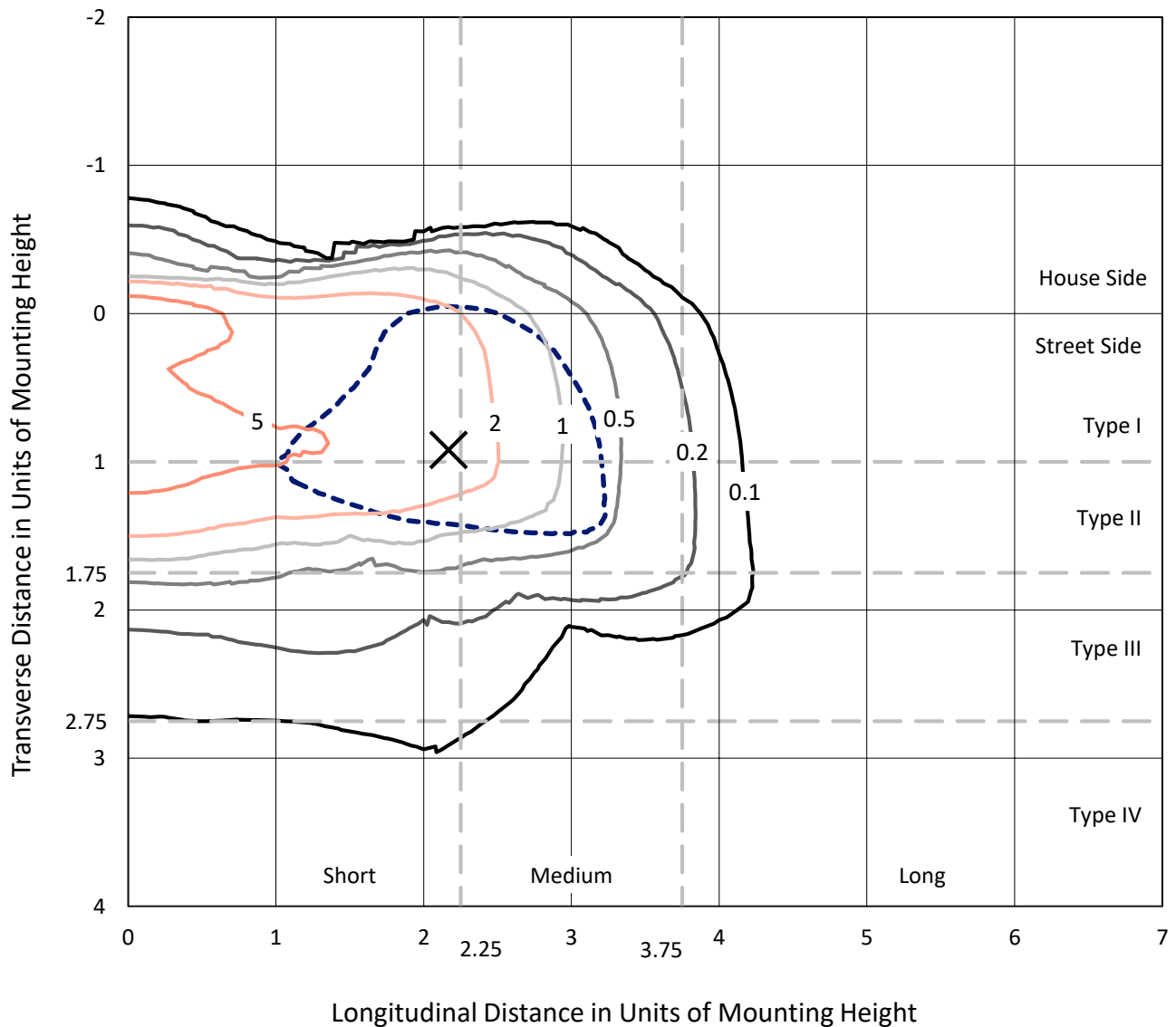


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### Iso-Footcandle Lines of Horizontal Illumination

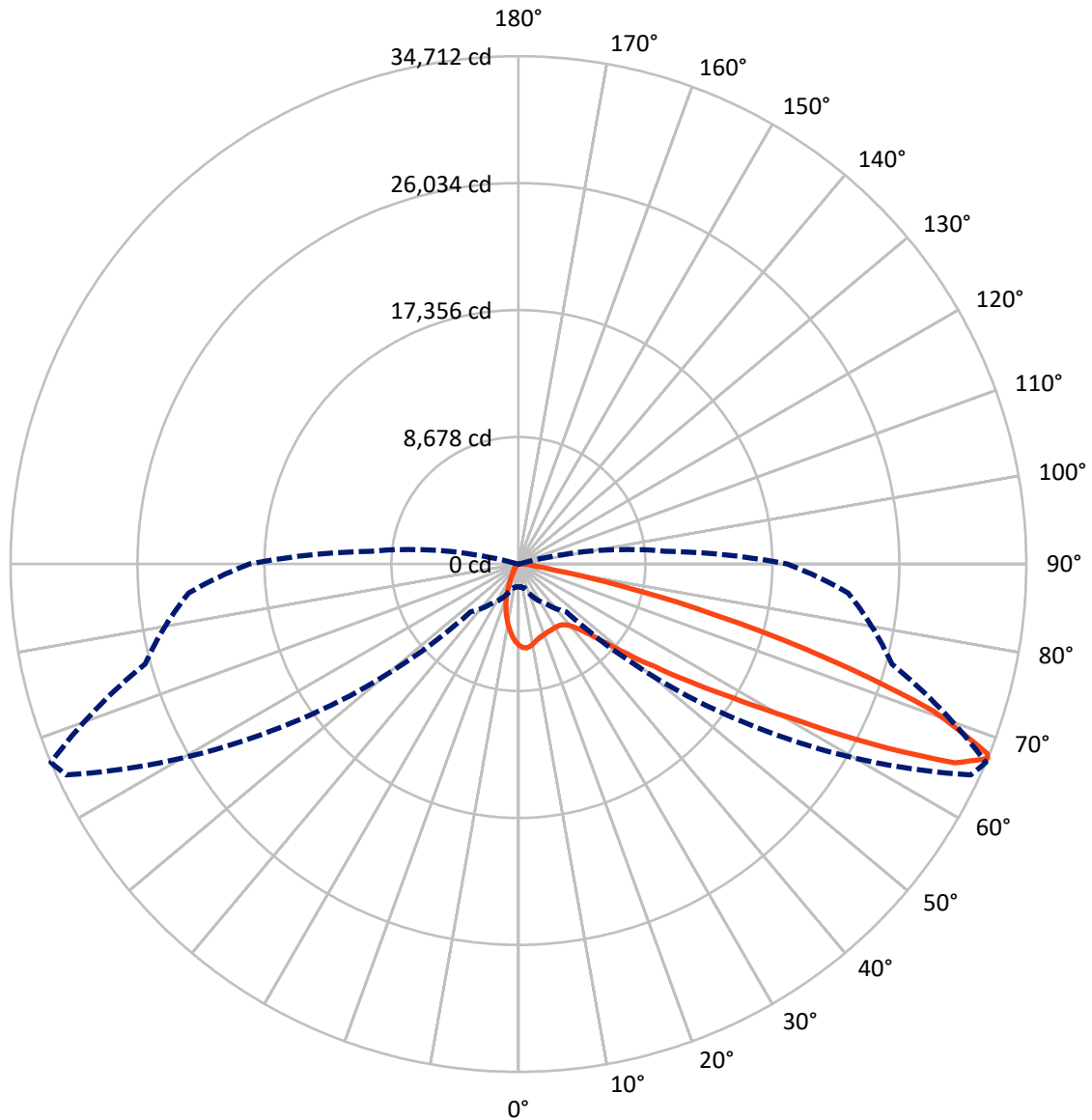
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2617.3   | 0.0    | 2617.3  |
|                    | % Fixture | 10.4     | 0.0    | 10.4    |
| <b>Street Side</b> | Lumens    | 22590.3  | 0.0    | 22590.3 |
|                    | % Fixture | 89.6     | 0.0    | 89.6    |
| <b>Total</b>       | Lumens    | 25207.6  | 0.0    | 25207.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 452.3   | 1.8       |
| 10°-20°   | 962.8   | 3.8       |
| 20°-30°   | 1399.8  | 5.6       |
| 30°-40°   | 2183.7  | 8.7       |
| 40°-50°   | 3868.3  | 15.3      |
| 50°-60°   | 6121.2  | 24.3      |
| 60°-70°   | 7011.0  | 27.8      |
| 70°-80°   | 2908.1  | 11.5      |
| 80°-90°   | 300.4   | 1.2       |
| 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°    | 25207.6 | 100.0     |
| 0°-180°   | 25207.6 | 100.0     |

**Coefficient of Utilization**



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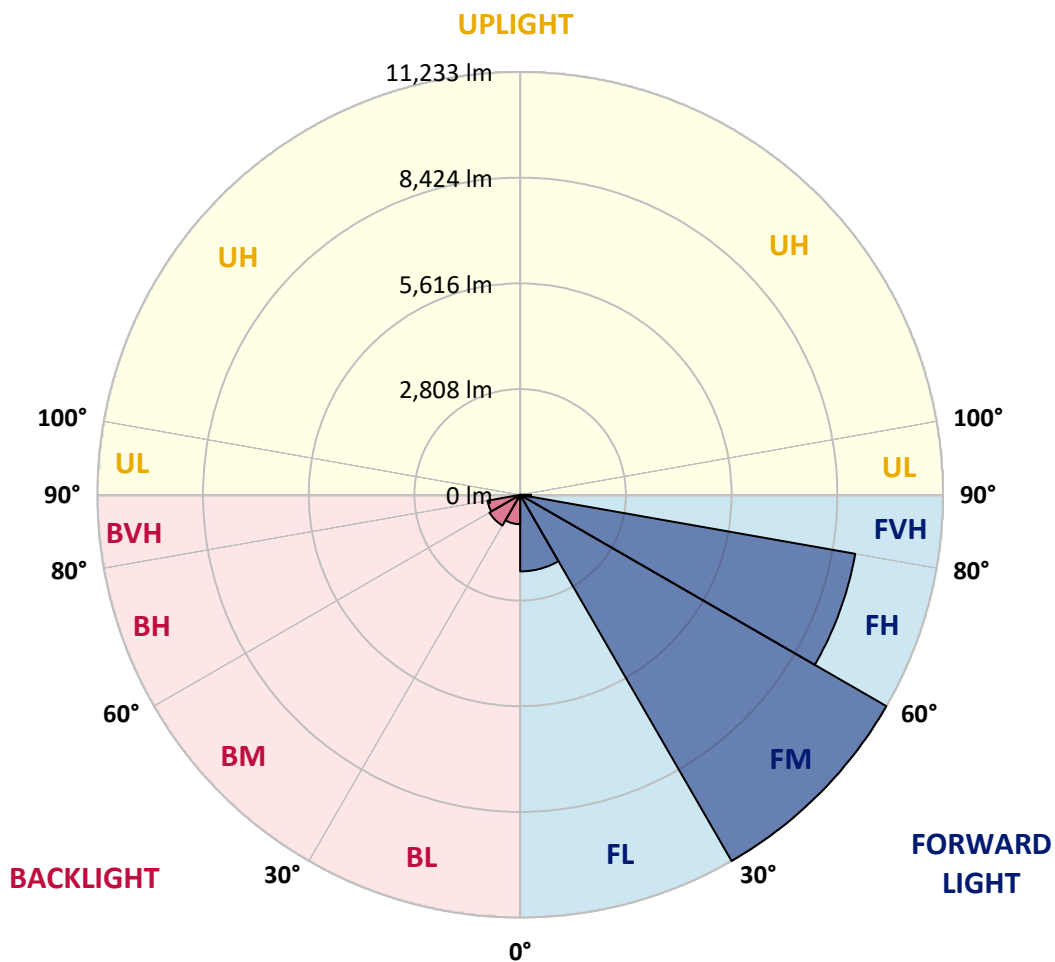
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2033.9  | 8.1       |                         |      |          |
| FM (30°-60°)   | 11232.5 | 44.6      |                         |      |          |
| FH (60°-80°)   | 9037.0  | 35.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 286.9   | 1.1       |                         |      | G3/500   |
| BL (0°-30°)    | 781.0   | 3.1       | B2/1000                 |      |          |
| BM (30°-60°)   | 940.6   | 3.7       | B1/1000                 |      |          |
| BH (60°-80°)   | 882.1   | 3.5       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 13.5    | 0.1       |                         |      | G1/100   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5559.2  | 5559.2  | 5559.2  | 5559.2  | 5559.2  | 5559.2  | 5559.2  | 5559.2  | 5559.2  | 5559.2  | 5559.2  |
| 2.5°  | 5747.3  | 5759.1  | 5757.7  | 5766.5  | 5787.1  | 5788.6  | 5768.0  | 5728.3  | 5719.4  | 5668.0  | 5578.4  |
| 5°    | 5300.4  | 5334.3  | 5354.8  | 5438.6  | 5532.7  | 5646.0  | 5731.2  | 5762.1  | 5757.7  | 5721.0  | 5585.6  |
| 7.5°  | 4790.3  | 4824.0  | 4847.6  | 4946.1  | 5071.1  | 5265.1  | 5487.1  | 5669.5  | 5685.7  | 5725.4  | 5579.8  |
| 10°   | 4450.6  | 4456.5  | 4488.8  | 4582.9  | 4713.8  | 4912.3  | 5176.9  | 5496.0  | 5544.5  | 5690.1  | 5565.1  |
| 12.5° | 4171.2  | 4175.7  | 4218.2  | 4319.7  | 4459.5  | 4659.3  | 4937.3  | 5306.4  | 5381.3  | 5646.0  | 5562.1  |
| 15°   | 3972.7  | 3988.9  | 4027.2  | 4133.0  | 4281.5  | 4480.0  | 4765.2  | 5166.6  | 5256.3  | 5629.8  | 5588.6  |
| 17.5° | 3906.5  | 3924.2  | 3936.0  | 4012.4  | 4147.8  | 4341.8  | 4634.4  | 5075.5  | 5176.9  | 5638.6  | 5640.0  |
| 20°   | 3975.7  | 3988.9  | 3962.5  | 3981.5  | 4065.4  | 4238.9  | 4524.1  | 4997.5  | 5118.1  | 5648.8  | 5706.2  |
| 22.5° | 4233.0  | 4238.9  | 4166.8  | 4083.0  | 4068.3  | 4163.9  | 4437.4  | 4935.8  | 5065.1  | 5676.9  | 5784.2  |
| 25°   | 4674.1  | 4663.7  | 4546.2  | 4365.3  | 4194.7  | 4150.6  | 4385.9  | 4897.6  | 5038.7  | 5706.2  | 5865.0  |
| 27.5° | 5206.3  | 5221.0  | 5059.3  | 4796.1  | 4471.2  | 4238.9  | 4378.5  | 4881.4  | 5027.0  | 5726.8  | 5935.6  |
| 30°   | 5853.2  | 5873.9  | 5688.6  | 5357.8  | 4891.6  | 4456.5  | 4446.2  | 4878.5  | 5019.6  | 5713.6  | 5941.5  |
| 32.5° | 6513.4  | 6538.4  | 6392.8  | 6051.8  | 5453.4  | 4821.1  | 4599.1  | 4910.8  | 5034.4  | 5668.0  | 5907.6  |
| 35°   | 7204.4  | 7239.7  | 7142.8  | 6850.1  | 6214.9  | 5347.5  | 4868.1  | 5009.3  | 5103.4  | 5663.6  | 5873.9  |
| 37.5° | 8158.6  | 8191.1  | 8008.7  | 7698.5  | 7136.8  | 6053.2  | 5300.4  | 5194.5  | 5266.6  | 5734.2  | 5882.7  |
| 40°   | 9583.4  | 9579.0  | 9108.5  | 8633.6  | 8149.8  | 6950.1  | 5907.6  | 5529.8  | 5566.6  | 5947.3  | 5991.4  |
| 42.5° | 11136.0 | 11128.7 | 10433.3 | 9711.3  | 9274.7  | 8054.3  | 6706.1  | 6109.1  | 6084.1  | 6339.9  | 6273.8  |
| 45°   | 12332.9 | 12331.4 | 11763.8 | 10950.8 | 10628.8 | 9321.6  | 7738.2  | 6914.8  | 6876.6  | 6978.1  | 6794.2  |
| 47.5° | 12843.0 | 12851.8 | 12566.6 | 11994.7 | 12129.9 | 11036.1 | 9039.4  | 8082.2  | 8024.8  | 7983.7  | 7704.4  |
| 50°   | 12446.0 | 12463.7 | 12487.3 | 12375.5 | 13231.3 | 13340.0 | 10784.7 | 9727.4  | 9699.5  | 9515.8  | 9079.1  |
| 52.5° | 11149.2 | 11239.0 | 11515.4 | 11869.7 | 13613.5 | 15551.3 | 13520.9 | 11771.2 | 11621.2 | 11425.6 | 10944.9 |
| 55°   | 8964.4  | 9062.9  | 9587.8  | 10447.9 | 13044.5 | 17004.0 | 17355.4 | 14406.0 | 14156.0 | 13572.3 | 12878.3 |
| 57.5° | 5932.6  | 6085.5  | 6847.2  | 7941.1  | 11391.9 | 17237.7 | 21181.1 | 18062.7 | 17192.2 | 15594.0 | 14811.8 |
| 60°   | 3268.4  | 3415.5  | 4241.8  | 5232.8  | 8227.8  | 16082.1 | 23754.1 | 22823.5 | 21285.5 | 17853.9 | 17159.9 |
| 62.5° | 2012.9  | 2092.2  | 2702.4  | 3624.3  | 4934.3  | 12693.1 | 24286.4 | 28806.1 | 27025.5 | 20763.5 | 19996.0 |
| 65°   | 1602.7  | 1636.4  | 1934.9  | 2962.7  | 3537.6  | 7550.0  | 22567.6 | 33366.9 | 32773.0 | 24286.4 | 22535.3 |
| 67°   | 1555.6  | 1568.8  | 1710.0  | 2543.6  | 3334.6  | 4628.5  | 18906.6 | 34109.5 | 34712.3 | 26418.3 | 22614.7 |
| 67.5° | 1565.8  | 1580.6  | 1714.4  | 2427.5  | 3328.8  | 4253.5  | 17645.1 | 33816.8 | 34578.5 | 26587.4 | 22263.3 |
| 70°   | 1510.0  | 1555.6  | 1962.8  | 2426.0  | 3165.5  | 3534.6  | 10567.1 | 29300.1 | 30092.6 | 24704.0 | 18890.4 |
| 72.5° | 535.2   | 538.2   | 848.3   | 1962.8  | 3441.9  | 3572.9  | 5306.4  | 21479.6 | 22066.3 | 18897.8 | 13619.4 |
| 75°   | 317.6   | 270.6   | 282.3   | 558.7   | 3289.1  | 3470.0  | 3061.2  | 13725.2 | 13944.4 | 10828.8 | 6897.1  |
| 77.5° | 219.1   | 191.2   | 197.0   | 247.0   | 1252.7  | 3421.4  | 2431.9  | 7157.4  | 6923.6  | 3797.8  | 1468.9  |
| 80°   | 125.0   | 110.3   | 117.6   | 216.1   | 455.8   | 3192.0  | 2293.7  | 2902.4  | 2474.5  | 643.9   | 405.8   |
| 82.5° | 66.2    | 55.9    | 67.6    | 177.9   | 317.6   | 1989.3  | 2298.1  | 1402.7  | 1111.5  | 217.6   | 276.4   |
| 85°   | 23.5    | 19.1    | 32.3    | 122.0   | 211.8   | 610.2   | 2130.5  | 1179.2  | 926.3   | 105.9   | 210.2   |
| 87.5° | 4.4     | 4.4     | 13.2    | 50.0    | 85.3    | 186.7   | 1260.1  | 699.9   | 469.0   | 63.2    | 144.1   |
| 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°    | 5559.2  | 5559.2  | 5559.2 | 5559.2 | 5559.2 | 5559.2 | 5559.2 | 5559.2 | 5559.2 | 5559.2 | 5559.2 |
| 2.5°  | 5541.5  | 5478.3  | 5393.1 | 5288.7 | 5165.2 | 5056.3 | 4975.5 | 4891.6 | 4874.1 | 4844.6 | 4840.2 |
| 5°    | 5504.8  | 5396.0  | 5184.3 | 4941.7 | 4682.9 | 4449.1 | 4259.5 | 4090.4 | 4015.4 | 3950.7 | 3943.4 |
| 7.5°  | 5450.4  | 5287.2  | 4926.9 | 4535.9 | 4131.5 | 3763.9 | 3452.3 | 3231.7 | 3028.9 | 2931.8 | 2917.0 |
| 10°   | 5387.2  | 5153.4  | 4637.3 | 4094.8 | 3536.0 | 3017.1 | 2553.9 | 2165.8 | 1930.5 | 1790.8 | 1773.2 |
| 12.5° | 5328.3  | 5022.6  | 4341.8 | 3637.5 | 2895.1 | 2201.1 | 1605.5 | 1235.0 | 988.1  | 888.0  | 876.3  |
| 15°   | 5300.4  | 4916.7  | 4065.4 | 3169.9 | 2224.6 | 1401.2 | 877.8  | 679.2  | 598.4  | 574.9  | 573.5  |
| 17.5° | 5297.5  | 4827.0  | 3794.8 | 2686.3 | 1558.5 | 814.6  | 571.9  | 521.9  | 505.7  | 499.9  | 499.9  |
| 20°   | 5296.0  | 4741.7  | 3524.3 | 2184.8 | 989.5  | 542.6  | 476.4  | 464.6  | 452.9  | 445.5  | 445.5  |
| 22.5° | 5312.2  | 4665.3  | 3242.0 | 1673.2 | 623.4  | 439.7  | 419.0  | 407.2  | 392.6  | 382.3  | 380.8  |
| 25°   | 5328.3  | 4606.4  | 2953.9 | 1190.9 | 451.4  | 382.3  | 361.7  | 345.6  | 324.9  | 311.7  | 310.3  |
| 27.5° | 5331.3  | 4532.9  | 2645.0 | 796.9  | 377.9  | 333.8  | 307.3  | 282.3  | 258.8  | 245.5  | 244.1  |
| 30°   | 5287.2  | 4409.4  | 2302.5 | 538.2  | 333.8  | 289.7  | 254.4  | 227.9  | 205.8  | 195.6  | 195.6  |
| 32.5° | 5200.5  | 4256.5  | 1926.1 | 405.8  | 297.0  | 248.5  | 210.2  | 185.3  | 170.5  | 166.1  | 164.7  |
| 35°   | 5122.5  | 4091.8  | 1539.4 | 344.0  | 266.2  | 210.2  | 172.1  | 155.9  | 147.0  | 145.6  | 144.1  |
| 37.5° | 5076.9  | 3959.5  | 1176.2 | 311.7  | 236.7  | 176.5  | 145.6  | 133.8  | 129.4  | 126.4  | 127.9  |
| 40°   | 5112.2  | 3849.3  | 869.0  | 285.2  | 207.4  | 147.0  | 123.5  | 117.6  | 113.2  | 111.7  | 111.7  |
| 42.5° | 5266.6  | 3830.1  | 645.5  | 261.7  | 179.4  | 122.0  | 107.3  | 102.9  | 99.9   | 98.5   | 99.9   |
| 45°   | 5672.4  | 3947.8  | 501.3  | 239.7  | 151.4  | 102.9  | 91.1   | 89.7   | 88.2   | 88.2   | 88.2   |
| 47.5° | 6282.6  | 4190.3  | 417.6  | 214.6  | 126.4  | 88.2   | 79.4   | 77.9   | 76.4   | 77.9   | 77.9   |
| 50°   | 7316.2  | 4634.4  | 373.5  | 189.7  | 104.3  | 75.0   | 67.6   | 67.6   | 67.6   | 67.6   | 69.2   |
| 52.5° | 8887.9  | 5507.8  | 344.0  | 164.7  | 85.3   | 63.2   | 57.4   | 57.4   | 58.8   | 58.8   | 60.3   |
| 55°   | 10639.1 | 6666.4  | 317.6  | 139.6  | 72.0   | 52.9   | 47.1   | 48.5   | 50.0   | 51.5   | 51.5   |
| 57.5° | 12538.7 | 7949.9  | 295.5  | 114.7  | 61.8   | 42.7   | 39.7   | 41.1   | 42.7   | 45.6   | 45.6   |
| 60°   | 14830.9 | 9339.3  | 263.2  | 89.7   | 51.5   | 33.9   | 30.9   | 33.9   | 38.3   | 41.1   | 42.7   |
| 62.5° | 17348.0 | 10683.2 | 222.0  | 70.6   | 42.7   | 26.5   | 25.0   | 30.9   | 36.7   | 39.7   | 41.1   |
| 65°   | 19068.3 | 11105.2 | 170.5  | 57.4   | 32.3   | 19.1   | 20.6   | 27.9   | 35.3   | 39.7   | 39.7   |
| 67°   | 18371.4 | 10068.6 | 139.6  | 48.5   | 26.5   | 14.7   | 19.1   | 27.9   | 35.3   | 38.3   | 39.7   |
| 67.5° | 17887.6 | 9662.8  | 133.8  | 47.1   | 25.0   | 14.7   | 19.1   | 27.9   | 35.3   | 39.7   | 39.7   |
| 70°   | 14554.4 | 7258.9  | 111.7  | 35.3   | 20.6   | 13.2   | 16.2   | 26.5   | 33.9   | 38.3   | 38.3   |
| 72.5° | 10112.7 | 4475.6  | 99.9   | 25.0   | 17.6   | 11.8   | 14.7   | 25.0   | 32.3   | 36.7   | 38.3   |
| 75°   | 4807.9  | 1620.3  | 85.3   | 19.1   | 16.2   | 10.3   | 13.2   | 25.0   | 32.3   | 36.7   | 36.7   |
| 77.5° | 980.7   | 376.4   | 69.2   | 16.2   | 13.2   | 10.3   | 11.8   | 23.5   | 30.9   | 35.3   | 35.3   |
| 80°   | 322.0   | 145.6   | 51.5   | 14.7   | 13.2   | 10.3   | 11.8   | 22.1   | 30.9   | 33.9   | 35.3   |
| 82.5° | 232.3   | 73.6    | 33.9   | 14.7   | 13.2   | 10.3   | 10.3   | 22.1   | 29.4   | 33.9   | 33.9   |
| 85°   | 177.9   | 51.5    | 22.1   | 14.7   | 13.2   | 10.3   | 10.3   | 20.6   | 27.9   | 32.3   | 32.3   |
| 87.5° | 117.6   | 20.6    | 17.6   | 14.7   | 13.2   | 10.3   | 10.3   | 20.6   | 26.5   | 30.9   | 32.3   |
| 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)