

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: P321640

Luminaire Tested: **GAN-SA6B-750-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321640  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6B-750-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26287 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

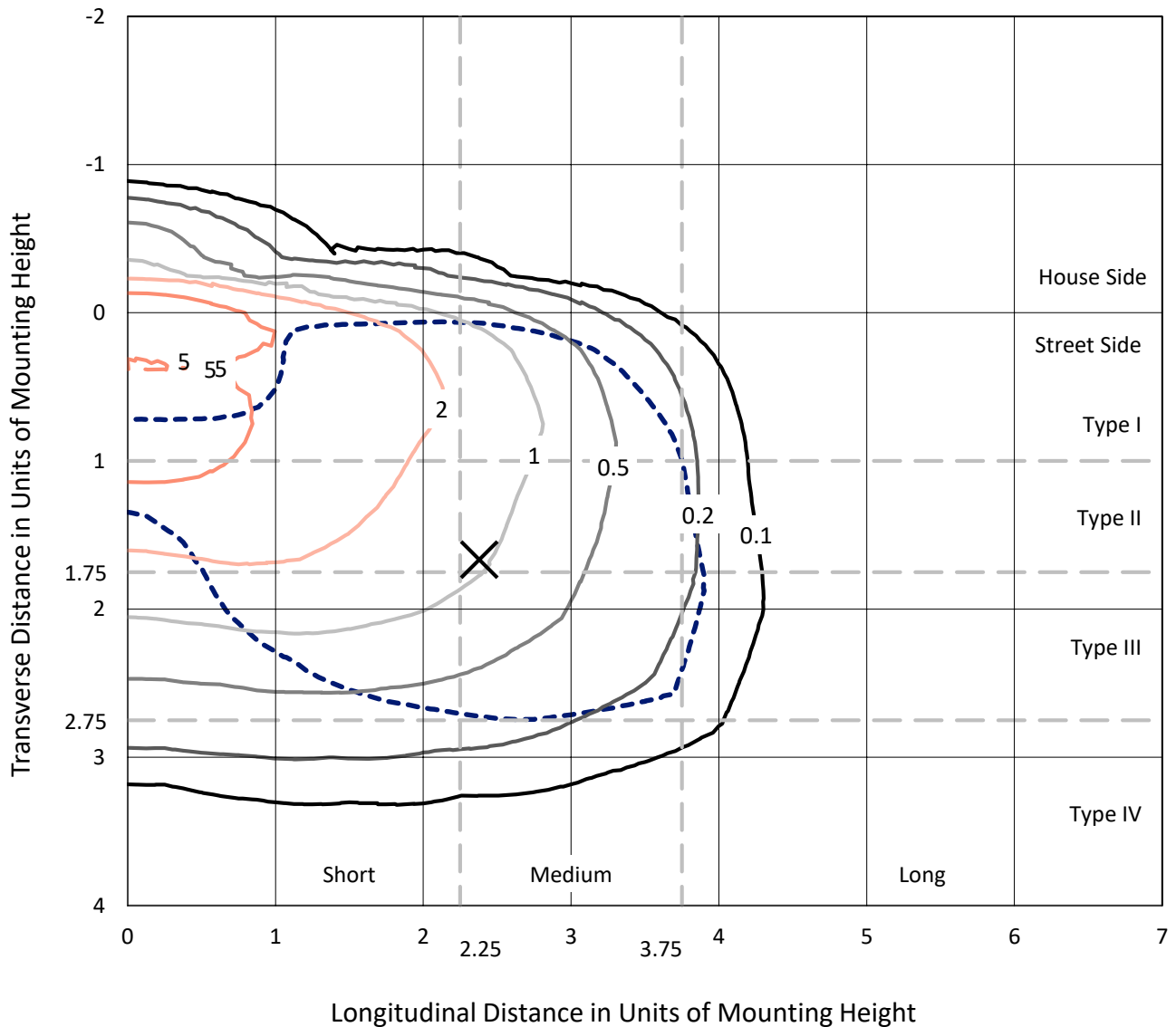
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

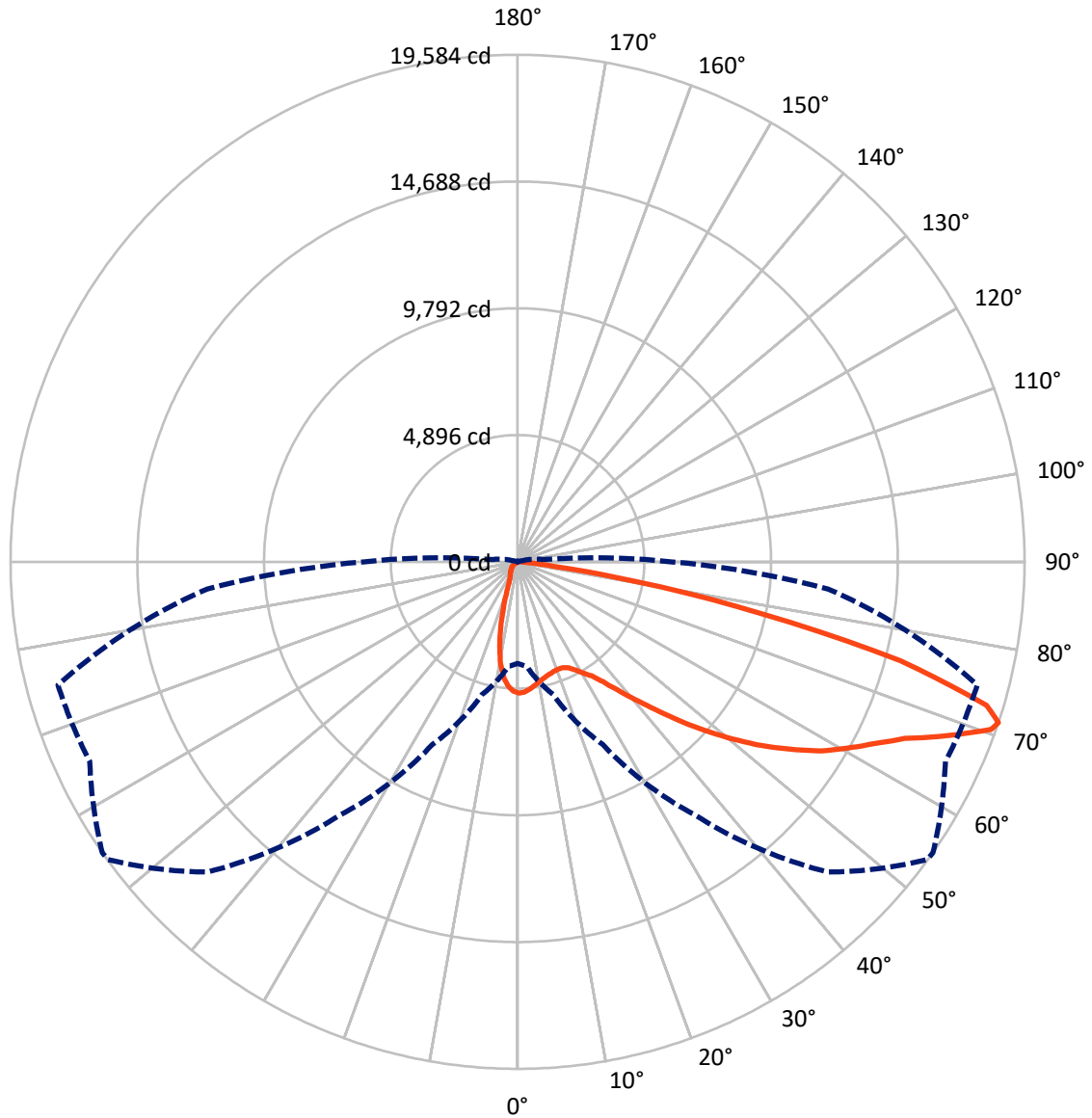
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2081.2   | 0.0    | 2081.2  |
|                    | % Fixture | 7.9      | 0.0    | 7.9     |
| <b>Street Side</b> | Lumens    | 24205.8  | 0.0    | 24205.8 |
|                    | % Fixture | 92.1     | 0.0    | 92.1    |
| <b>Total</b>       | Lumens    | 26287.0  | 0.0    | 26287.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 432.2   | 1.6       |
| 10°-20°   | 975.8   | 3.7       |
| 20°-30°   | 1568.2  | 6.0       |
| 30°-40°   | 2664.4  | 10.1      |
| 40°-50°   | 4135.5  | 15.7      |
| 50°-60°   | 5560.1  | 21.2      |
| 60°-70°   | 6801.9  | 25.9      |
| 70°-80°   | 3976.9  | 15.1      |
| 80°-90°   | 171.9   | 0.7       |
| 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°    | 26287.0 | 100.0     |
| 0°-180°   | 26287.0 | 100.0     |

**Coefficient of Utilization**

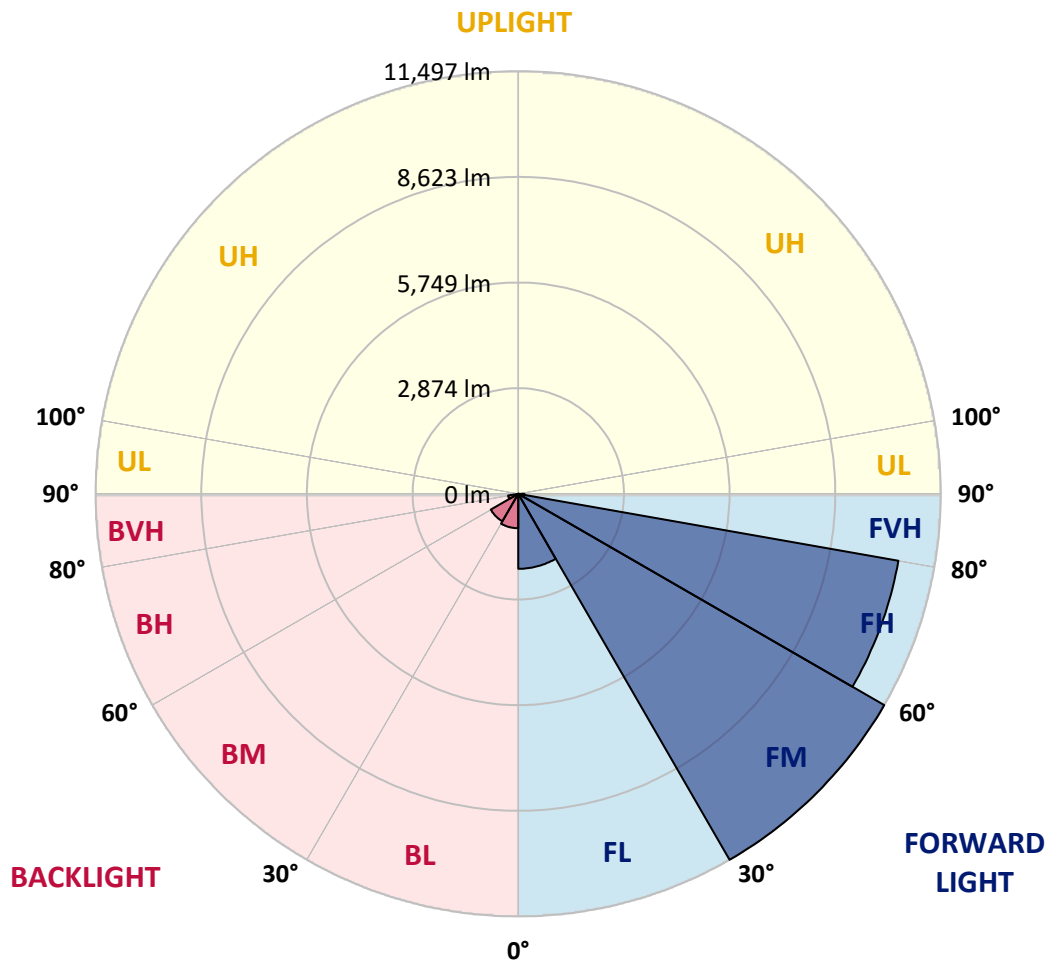


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2039.5  | 7.8       |                         |      |          |
| FM (30°-60°)   | 11497.2 | 43.7      |                         |      |          |
| FH (60°-80°)   | 10499.9 | 39.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 169.2   | 0.6       |                         |      | G2/225   |
| BL (0°-30°)    | 936.8   | 3.6       | B2/1000                 |      |          |
| BM (30°-60°)   | 862.9   | 3.3       | B1/1000                 |      |          |
| BH (60°-80°)   | 278.8   | 1.1       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 2.7     | 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 Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 54°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5069.5  | 5069.5  | 5069.5  | 5069.5  | 5069.5  | 5069.5  | 5069.5  | 5069.5  | 5069.5  | 5069.5  | 5069.5  |
| 2.5°  | 4920.8  | 4926.7  | 4948.0  | 4957.4  | 4979.8  | 5017.6  | 5036.5  | 5037.7  | 5068.4  | 5080.2  | 5089.6  |
| 5°    | 4572.6  | 4608.0  | 4643.4  | 4681.2  | 4749.7  | 4840.6  | 4930.3  | 4938.5  | 5037.7  | 5110.9  | 5149.8  |
| 7.5°  | 4272.8  | 4304.7  | 4347.2  | 4407.4  | 4504.2  | 4647.0  | 4796.9  | 4814.6  | 5002.3  | 5168.7  | 5256.0  |
| 10°   | 3964.7  | 3990.7  | 4052.1  | 4140.6  | 4274.0  | 4465.2  | 4667.0  | 4696.6  | 4970.4  | 5246.6  | 5400.0  |
| 12.5° | 3635.4  | 3650.8  | 3725.1  | 3852.6  | 4048.6  | 4291.7  | 4557.3  | 4596.2  | 4950.3  | 5336.3  | 5570.0  |
| 15°   | 3385.2  | 3392.3  | 3463.1  | 3595.3  | 3819.6  | 4135.9  | 4472.3  | 4519.5  | 4955.0  | 5443.7  | 5755.3  |
| 17.5° | 3321.5  | 3325.0  | 3362.8  | 3453.7  | 3652.0  | 3996.6  | 4405.0  | 4462.8  | 4969.2  | 5548.8  | 5941.8  |
| 20°   | 3580.0  | 3555.2  | 3516.2  | 3502.1  | 3587.0  | 3912.8  | 4364.9  | 4429.8  | 4988.1  | 5642.0  | 6109.4  |
| 22.5° | 4289.3  | 4216.2  | 4054.5  | 3838.5  | 3707.4  | 3918.7  | 4375.5  | 4440.4  | 5048.3  | 5756.5  | 6303.0  |
| 25°   | 5342.2  | 5240.7  | 4965.7  | 4540.8  | 4132.4  | 4088.7  | 4464.0  | 4530.1  | 5165.1  | 5893.4  | 6488.3  |
| 27.5° | 6540.2  | 6439.9  | 6103.5  | 5496.8  | 4800.4  | 4425.1  | 4667.0  | 4728.4  | 5338.7  | 6015.0  | 6629.9  |
| 30°   | 7687.5  | 7659.2  | 7262.6  | 6573.3  | 5640.8  | 4970.4  | 4929.1  | 4981.0  | 5467.3  | 6088.2  | 6742.1  |
| 32.5° | 8660.1  | 8615.3  | 8296.6  | 7626.1  | 6602.8  | 5625.5  | 5237.1  | 5252.5  | 5564.1  | 6182.6  | 6888.4  |
| 35°   | 9561.9  | 9506.4  | 9226.7  | 8592.8  | 7589.6  | 6425.7  | 5711.6  | 5689.2  | 5775.4  | 6372.6  | 7100.9  |
| 37.5° | 10349.2 | 10399.9 | 10089.5 | 9486.4  | 8474.8  | 7257.9  | 6351.4  | 6284.1  | 6105.9  | 6681.9  | 7409.0  |
| 40°   | 11007.8 | 11007.8 | 10846.1 | 10343.3 | 9430.9  | 8118.3  | 7074.9  | 6986.4  | 6602.8  | 7158.7  | 7799.7  |
| 42.5° | 11245.1 | 11295.8 | 11356.0 | 11071.5 | 10286.6 | 9013.0  | 7881.1  | 7789.0  | 7302.7  | 7835.1  | 8293.0  |
| 45°   | 11259.2 | 11339.5 | 11647.6 | 11646.4 | 11059.7 | 9901.8  | 8790.0  | 8746.3  | 8199.8  | 8703.8  | 8904.5  |
| 47.5° | 11059.7 | 11160.1 | 11667.6 | 11955.6 | 11672.3 | 10729.3 | 9783.8  | 9729.5  | 9253.8  | 9768.5  | 9544.2  |
| 50°   | 10751.7 | 10862.6 | 11452.8 | 12077.2 | 12089.0 | 11449.3 | 10830.8 | 10749.3 | 10414.1 | 10985.4 | 10205.2 |
| 52.5° | 10200.5 | 10415.3 | 11260.4 | 12105.5 | 12362.8 | 12071.3 | 11827.0 | 11791.6 | 11712.5 | 12157.5 | 10731.6 |
| 55°   | 9021.3  | 9259.7  | 10777.6 | 12115.0 | 12616.6 | 12622.5 | 12760.6 | 12770.1 | 12929.4 | 13252.8 | 11123.5 |
| 57.5° | 8464.2  | 8598.7  | 9934.9  | 12159.8 | 12993.1 | 13248.1 | 13712.0 | 13785.1 | 14031.8 | 14292.7 | 11570.8 |
| 60°   | 8113.6  | 8273.0  | 9519.4  | 12098.4 | 13584.5 | 14068.4 | 14593.7 | 14618.5 | 14882.9 | 15365.6 | 12176.3 |
| 62.5° | 7833.9  | 7990.9  | 9257.4  | 11862.4 | 14249.0 | 15055.2 | 15455.3 | 15457.7 | 15656.0 | 16643.9 | 12864.5 |
| 65°   | 7143.4  | 7275.6  | 8727.4  | 11596.8 | 14688.1 | 16031.3 | 16456.2 | 16440.9 | 16602.6 | 17991.9 | 13663.6 |
| 67.5° | 6144.8  | 6246.3  | 7645.0  | 10590.0 | 14522.9 | 16918.9 | 17967.1 | 17916.3 | 17720.4 | 19156.9 | 13977.5 |
| 70°   | 4750.9  | 4787.4  | 6025.6  | 8825.4  | 12974.3 | 17260.1 | 19427.1 | 19401.2 | 18406.2 | 18947.9 | 12826.7 |
| 71°   | 3927.0  | 4047.4  | 5310.3  | 7789.0  | 11936.7 | 16944.9 | 19568.8 | 19584.1 | 18233.8 | 18379.0 | 12034.7 |
| 72.5° | 2280.4  | 2383.1  | 3849.1  | 5981.9  | 10134.4 | 15630.0 | 18834.6 | 18945.6 | 17428.8 | 16717.1 | 10279.5 |
| 75°   | 488.7   | 522.9   | 1427.0  | 2895.4  | 5574.7  | 10954.7 | 14866.3 | 15261.7 | 14205.3 | 11372.5 | 6195.6  |
| 77.5° | 339.9   | 367.1   | 611.4   | 1313.7  | 1842.5  | 5413.0  | 9234.9  | 9681.1  | 8486.6  | 4274.0  | 1983.0  |
| 80°   | 269.1   | 299.8   | 476.9   | 649.2   | 498.1   | 1745.7  | 4325.9  | 4598.6  | 2830.4  | 953.7   | 334.0   |
| 82.5° | 149.9   | 178.2   | 371.8   | 350.6   | 191.2   | 331.7   | 1211.0  | 1369.2  | 566.6   | 192.4   | 79.1    |
| 85°   | 43.7    | 53.1    | 239.6   | 255.0   | 81.4    | 63.7    | 206.6   | 256.1   | 107.4   | 50.8    | 35.4    |
| 87.5° | 0.0     | 0.0     | 115.7   | 98.0    | 23.6    | 9.4     | 18.9    | 21.2    | 21.2    | 21.2    | 23.6    |
| 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°    | 5069.5 | 5069.5 | 5069.5 | 5069.5 | 5069.5 | 5069.5 | 5069.5 | 5069.5 | 5069.5 | 5069.5 | 5069.5 |
| 2.5°  | 5089.6 | 5097.9 | 5068.4 | 5029.4 | 4988.1 | 4937.3 | 4884.2 | 4842.9 | 4841.7 | 4821.7 | 4801.6 |
| 5°    | 5152.2 | 5147.4 | 5066.0 | 4942.1 | 4795.7 | 4643.4 | 4498.3 | 4334.2 | 4279.9 | 4212.6 | 4190.2 |
| 7.5°  | 5267.8 | 5234.8 | 5062.5 | 4791.0 | 4469.9 | 4151.2 | 3821.9 | 3490.3 | 3348.6 | 3221.1 | 3198.7 |
| 10°   | 5413.0 | 5350.5 | 5040.0 | 4564.4 | 3975.4 | 3387.6 | 2890.6 | 2439.8 | 2241.5 | 2089.2 | 2082.1 |
| 12.5° | 5564.1 | 5468.5 | 4977.5 | 4222.1 | 3327.4 | 2501.1 | 1928.7 | 1484.9 | 1319.6 | 1213.4 | 1222.8 |
| 15°   | 5722.3 | 5579.4 | 4842.9 | 3760.5 | 2589.7 | 1697.3 | 1185.1 | 924.2  | 858.1  | 831.0  | 838.0  |
| 17.5° | 5884.0 | 5656.2 | 4655.2 | 3204.6 | 1861.4 | 1095.4 | 820.3  | 747.2  | 747.2  | 753.1  | 755.4  |
| 20°   | 6024.4 | 5697.5 | 4379.0 | 2581.4 | 1261.8 | 797.9  | 717.6  | 707.0  | 712.9  | 722.4  | 723.5  |
| 22.5° | 6163.7 | 5699.8 | 4019.0 | 1949.9 | 882.9  | 698.8  | 683.4  | 678.7  | 682.2  | 692.9  | 694.0  |
| 25°   | 6277.0 | 5671.5 | 3568.2 | 1386.9 | 704.7  | 658.6  | 651.5  | 649.2  | 651.5  | 664.5  | 664.5  |
| 27.5° | 6323.1 | 5568.8 | 3018.1 | 975.0  | 631.5  | 613.8  | 611.4  | 613.8  | 617.3  | 626.8  | 627.9  |
| 30°   | 6327.8 | 5389.4 | 2418.5 | 705.8  | 572.5  | 553.6  | 558.3  | 566.6  | 563.0  | 560.7  | 563.0  |
| 32.5° | 6339.6 | 5181.7 | 1834.2 | 580.7  | 522.9  | 493.4  | 487.5  | 487.5  | 473.3  | 465.1  | 460.3  |
| 35°   | 6378.5 | 4937.3 | 1330.2 | 521.7  | 472.1  | 437.9  | 415.5  | 389.5  | 362.4  | 348.2  | 344.7  |
| 37.5° | 6439.9 | 4681.2 | 952.5  | 482.8  | 427.3  | 388.3  | 345.8  | 299.8  | 260.9  | 250.2  | 250.2  |
| 40°   | 6552.0 | 4416.8 | 704.7  | 452.1  | 391.9  | 343.5  | 279.7  | 219.5  | 184.1  | 178.2  | 178.2  |
| 42.5° | 6729.1 | 4138.3 | 561.8  | 424.9  | 361.2  | 297.4  | 213.6  | 159.3  | 133.4  | 129.8  | 128.7  |
| 45°   | 6913.2 | 3831.4 | 491.0  | 399.0  | 328.1  | 244.3  | 158.2  | 118.0  | 102.7  | 99.1   | 99.1   |
| 47.5° | 7097.4 | 3504.4 | 456.8  | 374.2  | 296.3  | 190.0  | 118.0  | 93.2   | 86.2   | 86.2   | 87.3   |
| 50°   | 7253.2 | 3163.3 | 432.0  | 347.0  | 255.0  | 144.0  | 93.2   | 79.1   | 76.7   | 81.4   | 82.6   |
| 52.5° | 7292.1 | 2828.1 | 401.3  | 312.8  | 204.2  | 109.8  | 76.7   | 69.6   | 69.6   | 69.6   | 69.6   |
| 55°   | 7268.5 | 2568.4 | 361.2  | 270.3  | 151.1  | 87.3   | 66.1   | 61.4   | 60.2   | 60.2   | 60.2   |
| 57.5° | 7348.8 | 2415.0 | 289.2  | 210.1  | 108.6  | 70.8   | 57.8   | 54.3   | 51.9   | 50.8   | 50.8   |
| 60°   | 7510.5 | 2314.6 | 206.6  | 151.1  | 81.4   | 59.0   | 49.6   | 46.0   | 42.5   | 40.1   | 40.1   |
| 62.5° | 7725.3 | 2227.3 | 153.4  | 112.1  | 62.6   | 47.2   | 41.3   | 37.8   | 33.0   | 30.7   | 30.7   |
| 65°   | 7890.5 | 2071.5 | 116.9  | 83.8   | 47.2   | 37.8   | 31.9   | 30.7   | 23.6   | 21.2   | 20.1   |
| 67.5° | 7638.0 | 1729.2 | 94.4   | 61.4   | 35.4   | 29.5   | 24.8   | 23.6   | 14.2   | 11.8   | 11.8   |
| 70°   | 6550.9 | 1203.9 | 75.5   | 44.9   | 26.0   | 23.6   | 20.1   | 15.3   | 10.6   | 9.4    | 9.4    |
| 71°   | 5940.6 | 1005.6 | 68.5   | 37.8   | 22.4   | 22.4   | 18.9   | 13.0   | 9.4    | 8.3    | 8.3    |
| 72.5° | 4935.0 | 714.1  | 57.8   | 29.5   | 20.1   | 23.6   | 20.1   | 11.8   | 9.4    | 8.3    | 7.1    |
| 75°   | 2864.7 | 298.6  | 40.1   | 20.1   | 15.3   | 28.3   | 26.0   | 10.6   | 7.1    | 5.9    | 5.9    |
| 77.5° | 861.6  | 109.8  | 22.4   | 13.0   | 11.8   | 24.8   | 29.5   | 9.4    | 3.5    | 1.2    | 1.2    |
| 80°   | 157.0  | 47.2   | 14.2   | 8.3    | 8.3    | 15.3   | 22.4   | 4.7    | 0.0    | 0.0    | 0.0    |
| 82.5° | 55.5   | 23.6   | 8.3    | 4.7    | 3.5    | 7.1    | 10.6   | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 31.9   | 16.5   | 4.7    | 2.4    | 0.0    | 1.2    | 2.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 21.2   | 4.7    | 0.0    | 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)