

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: P193673

Luminaire Tested: **GAN-AF-05-LED-U-SL3-8030-HSS**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P193673  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
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-SL3-8030-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 20739 lumens  
Efficiency: N/A  
Efficacy: 74.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-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



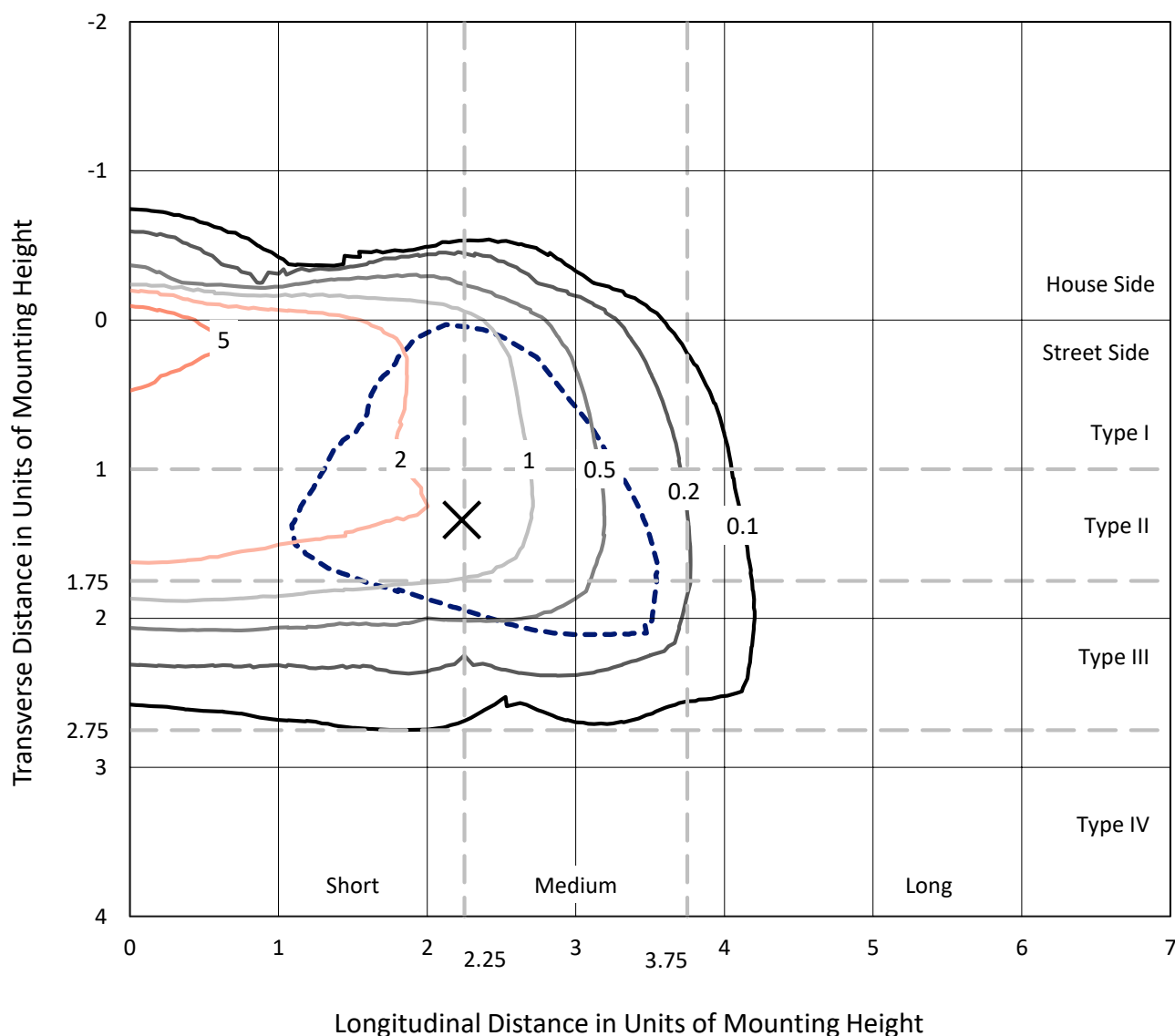
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

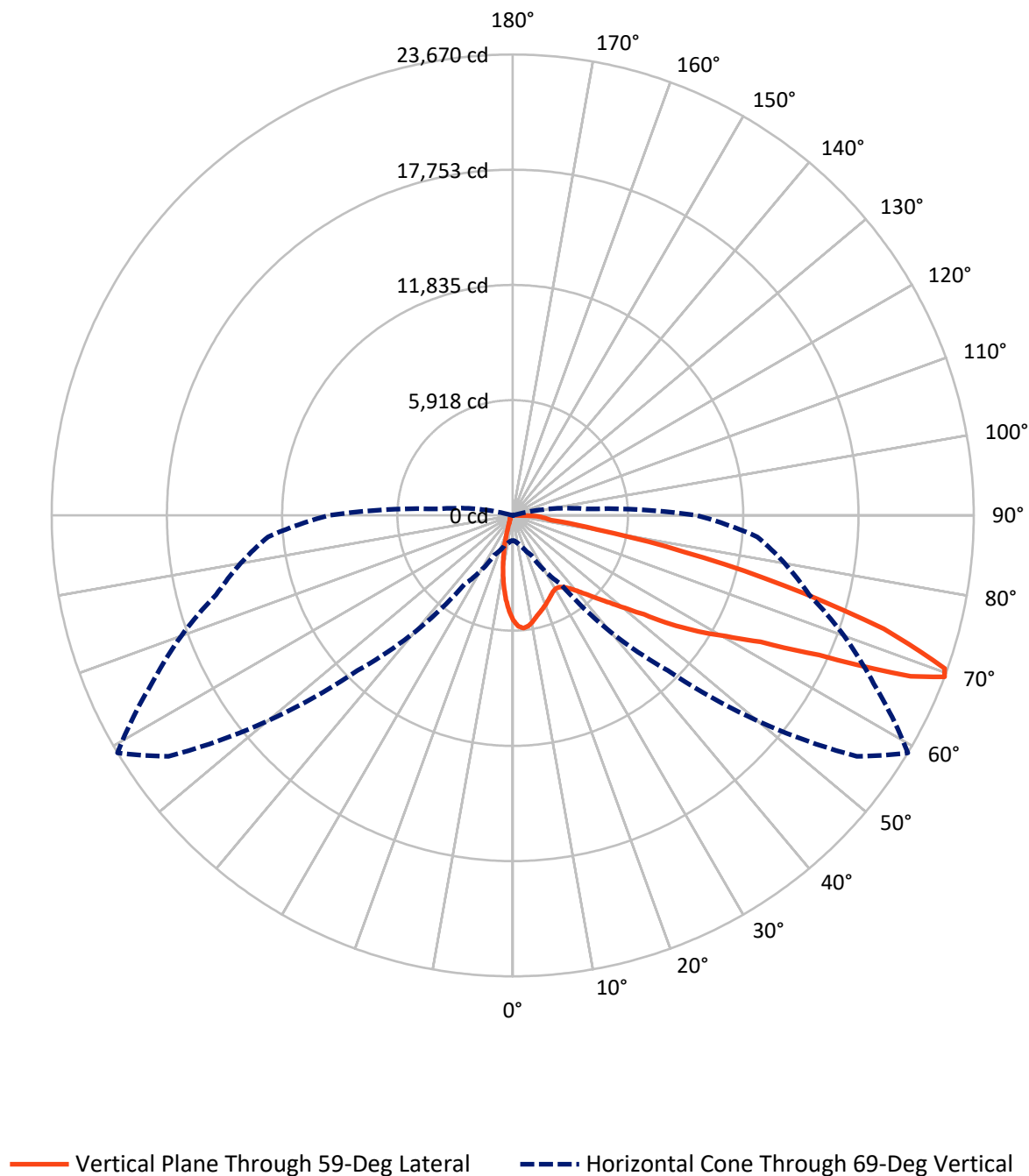


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type III - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1688.9   | 0.0    | 1688.9  |
|                    | % Fixture | 8.1      | 0.0    | 8.1     |
| <b>Street Side</b> | Lumens    | 19050.1  | 0.0    | 19050.1 |
|                    | % Fixture | 91.9     | 0.0    | 91.9    |
| <b>Total</b>       | Lumens    | 20739.0  | 0.0    | 20739.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 438.2   | 2.1       |
| 10°-20°   | 905.4   | 4.4       |
| 20°-30°   | 1218.3  | 5.9       |
| 30°-40°   | 1768.9  | 8.5       |
| 40°-50°   | 2945.3  | 14.2      |
| 50°-60°   | 4594.6  | 22.2      |
| 60°-70°   | 5685.5  | 27.4      |
| 70°-80°   | 2881.4  | 13.9      |
| 80°-90°   | 301.5   | 1.5       |
| 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°    | 20739.0 | 100.0     |
| 0°-180°   | 20739.0 | 100.0     |

**Coefficient of Utilization**



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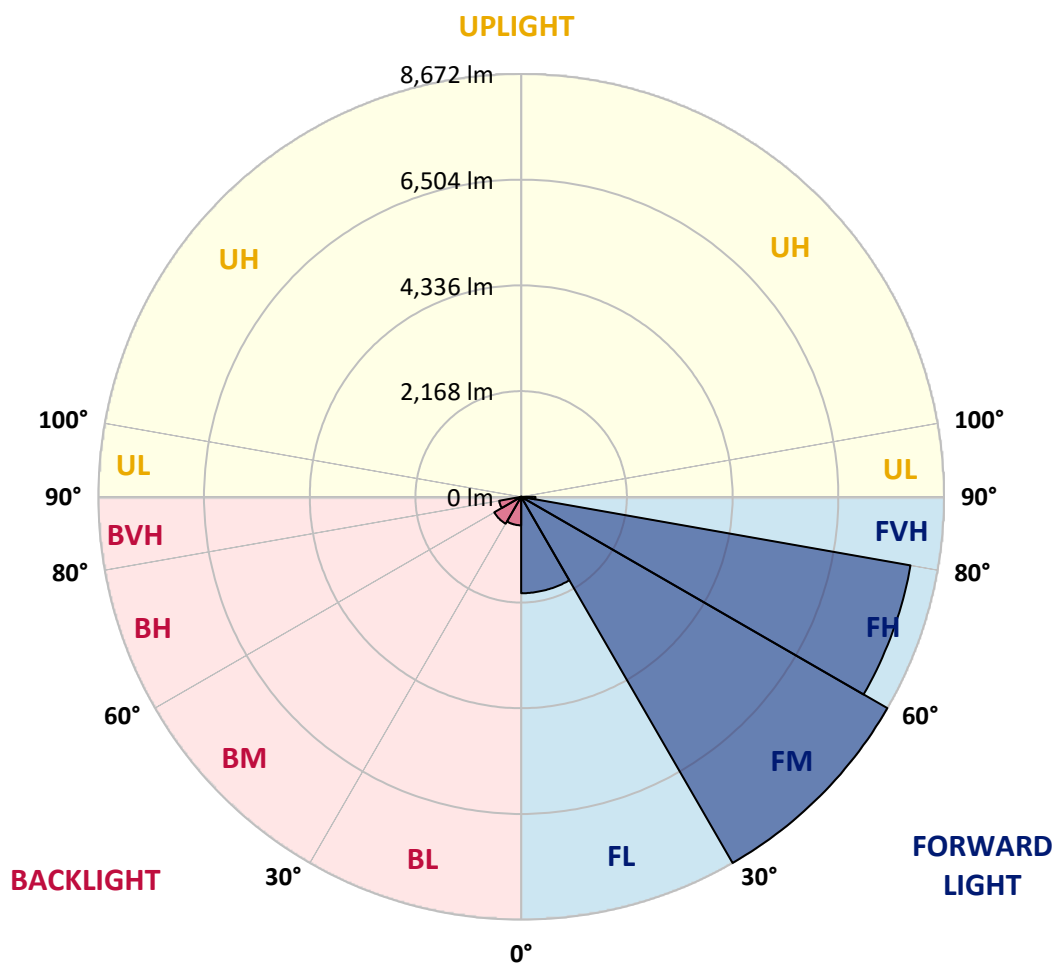
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1977.2 | 9.5       |                         |      |          |
| FM   | (30°-60°)   | 8672.4 | 41.8      |                         |      |          |
| FH   | (60°-80°)   | 8108.2 | 39.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 292.2  | 1.4       |                         |      | G3/500   |
| BL   | (0°-30°)    | 584.6  | 2.8       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 636.4  | 3.1       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 458.7  | 2.2       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 9.3    | 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°     | 59°     | 65°     | 75°     | 85°     |
|-------|---------|---------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5398.1  | 5398.1  | 5398.1 | 5398.1 | 5398.1  | 5398.1  | 5398.1  | 5398.1  | 5398.1  | 5398.1  | 5398.1  |
| 2.5°  | 5916.4  | 5914.1  | 5888.3 | 5876.5 | 5855.4  | 5810.9  | 5741.7  | 5705.3  | 5646.7  | 5544.7  | 5407.5  |
| 5°    | 5862.5  | 5890.6  | 5905.9 | 5907.0 | 5922.3  | 5905.9  | 5843.7  | 5813.2  | 5732.3  | 5568.1  | 5321.8  |
| 7.5°  | 5496.6  | 5507.1  | 5550.5 | 5588.1 | 5660.8  | 5730.0  | 5752.2  | 5739.3  | 5691.3  | 5515.3  | 5188.2  |
| 10°   | 5104.9  | 5115.4  | 5167.0 | 5216.3 | 5314.8  | 5421.5  | 5534.1  | 5557.6  | 5577.5  | 5440.3  | 5059.2  |
| 12.5° | 4767.1  | 4777.7  | 4830.5 | 4895.0 | 5009.9  | 5141.2  | 5316.0  | 5354.7  | 5442.6  | 5368.8  | 4956.0  |
| 15°   | 4476.3  | 4481.0  | 4532.6 | 4612.3 | 4749.6  | 4918.4  | 5116.6  | 5178.8  | 5313.6  | 5318.3  | 4865.7  |
| 17.5° | 4228.9  | 4240.6  | 4272.3 | 4348.5 | 4498.6  | 4707.3  | 4938.4  | 5027.5  | 5185.8  | 5276.1  | 4777.7  |
| 20°   | 4077.6  | 4089.3  | 4088.1 | 4130.4 | 4265.2  | 4488.0  | 4760.1  | 4866.8  | 5059.2  | 5232.7  | 4699.1  |
| 22.5° | 4048.3  | 4048.3  | 4017.8 | 4011.9 | 4091.7  | 4278.1  | 4574.8  | 4705.0  | 4945.4  | 5214.0  | 4644.0  |
| 25°   | 4152.6  | 4147.9  | 4071.7 | 4009.6 | 4013.1  | 4124.5  | 4395.4  | 4550.2  | 4849.2  | 5226.9  | 4614.7  |
| 27.5° | 4373.1  | 4367.2  | 4271.1 | 4152.6 | 4057.6  | 4056.5  | 4259.4  | 4425.9  | 4773.0  | 5287.8  | 4626.4  |
| 30°   | 4678.0  | 4675.7  | 4571.3 | 4422.4 | 4250.0  | 4091.7  | 4212.4  | 4363.7  | 4723.8  | 5398.1  | 4653.4  |
| 32.5° | 5011.1  | 5007.6  | 4929.0 | 4771.8 | 4553.7  | 4250.0  | 4261.7  | 4388.4  | 4737.8  | 5544.7  | 4719.1  |
| 35°   | 5364.1  | 5358.2  | 5324.2 | 5187.0 | 4946.6  | 4542.0  | 4423.5  | 4522.0  | 4827.0  | 5764.0  | 4848.1  |
| 37.5° | 5746.4  | 5752.2  | 5776.9 | 5645.5 | 5393.4  | 4951.3  | 4694.4  | 4761.3  | 5006.4  | 6061.8  | 5058.0  |
| 40°   | 6310.5  | 6309.3  | 6317.5 | 6145.1 | 5902.3  | 5452.0  | 5073.2  | 5094.3  | 5306.6  | 6457.0  | 5377.0  |
| 42.5° | 7334.3  | 7262.7  | 7045.8 | 6693.9 | 6450.0  | 6024.3  | 5550.5  | 5528.2  | 5673.7  | 6946.1  | 5823.8  |
| 45°   | 8709.9  | 8557.4  | 7994.5 | 7320.2 | 7008.2  | 6669.3  | 6138.1  | 6066.5  | 6159.2  | 7533.6  | 6375.0  |
| 47.5° | 9893.1  | 9734.8  | 8938.5 | 7972.2 | 7600.5  | 7281.5  | 6826.5  | 6697.5  | 6728.0  | 8191.5  | 7073.9  |
| 50°   | 10295.4 | 10218.0 | 9522.6 | 8539.8 | 8173.9  | 8052.0  | 7625.1  | 7467.9  | 7424.6  | 8952.6  | 7884.3  |
| 52.5° | 10155.8 | 10150.0 | 9686.7 | 8908.1 | 8699.3  | 8849.4  | 8630.1  | 8448.3  | 8288.9  | 9754.8  | 8708.7  |
| 55°   | 9931.8  | 9961.2  | 9753.6 | 9230.6 | 9223.5  | 9577.7  | 10004.6 | 9853.3  | 9391.2  | 10626.1 | 9419.4  |
| 57.5° | 9313.8  | 9439.3  | 9716.1 | 9840.4 | 10128.9 | 10491.2 | 11149.1 | 11238.3 | 10691.8 | 11293.4 | 10009.2 |
| 60°   | 7557.1  | 7832.7  | 8738.0 | 9928.3 | 11295.7 | 12198.7 | 12530.6 | 12606.8 | 11759.0 | 11848.1 | 10805.5 |
| 62.5° | 5364.1  | 5645.5  | 6793.6 | 8807.2 | 11313.3 | 14442.2 | 14588.8 | 14289.7 | 12934.0 | 12670.2 | 12178.8 |
| 65°   | 2847.4  | 3064.3  | 4002.5 | 6357.4 | 9808.7  | 14962.9 | 18187.9 | 17296.6 | 15007.4 | 14287.4 | 13953.1 |
| 67.5° | 1456.5  | 1522.2  | 1895.1 | 3111.3 | 6743.2  | 13290.5 | 21414.0 | 22041.5 | 18580.7 | 15891.7 | 13867.5 |
| 69°   | 1288.8  | 1327.5  | 1575.0 | 2249.3 | 4318.0  | 11257.0 | 21571.2 | 23670.4 | 20451.2 | 15758.0 | 12602.2 |
| 70°   | 1247.8  | 1281.8  | 1507.0 | 2035.9 | 3375.1  | 9440.5  | 20969.6 | 23527.3 | 20929.7 | 15249.0 | 11656.9 |
| 72.5° | 1059.0  | 1088.3  | 1341.6 | 1799.0 | 2743.0  | 4686.2  | 17033.9 | 19936.4 | 18781.3 | 12703.0 | 8437.8  |
| 75°   | 708.3   | 804.5   | 1287.7 | 1686.4 | 2551.9  | 2662.1  | 11230.1 | 14407.0 | 13383.2 | 8568.0  | 4395.4  |
| 77.5° | 170.0   | 182.9   | 363.5  | 1341.6 | 2333.7  | 2343.1  | 5775.7  | 8956.1  | 7304.9  | 3053.8  | 1039.0  |
| 80°   | 91.5    | 88.0    | 102.0  | 266.2  | 2173.1  | 2198.9  | 2599.9  | 4347.3  | 2608.2  | 506.6   | 342.4   |
| 82.5° | 64.5    | 61.0    | 65.7   | 111.4  | 683.7   | 2003.0  | 1881.1  | 1967.8  | 1081.3  | 194.7   | 153.6   |
| 85°   | 23.5    | 22.3    | 36.4   | 100.9  | 214.6   | 1151.6  | 1932.7  | 1623.1  | 876.0   | 89.1    | 112.6   |
| 87.5° | 8.2     | 7.0     | 14.1   | 55.1   | 65.7    | 490.2   | 1192.7  | 1226.7  | 344.8   | 53.9    | 52.8    |
| 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°    | 5398.1  | 5398.1 | 5398.1 | 5398.1 | 5398.1 | 5398.1 | 5398.1 | 5398.1 | 5398.1 | 5398.1 | 5398.1 |
| 2.5°  | 5350.0  | 5277.3 | 5143.6 | 5006.4 | 4879.7 | 4727.3 | 4651.0 | 4576.0 | 4544.3 | 4532.6 | 4477.5 |
| 5°    | 5195.2  | 5072.1 | 4788.3 | 4503.3 | 4240.6 | 3961.5 | 3777.4 | 3629.6 | 3542.8 | 3500.6 | 3433.8 |
| 7.5°  | 4997.0  | 4795.3 | 4364.9 | 3925.1 | 3515.8 | 3112.4 | 2813.4 | 2583.5 | 2425.2 | 2349.0 | 2279.8 |
| 10°   | 4804.7  | 4536.1 | 3924.0 | 3324.7 | 2768.8 | 2234.1 | 1821.2 | 1522.2 | 1331.0 | 1243.1 | 1186.8 |
| 12.5° | 4632.3  | 4284.0 | 3498.3 | 2739.5 | 2041.7 | 1415.5 | 995.6  | 757.6  | 639.1  | 598.1  | 578.2  |
| 15°   | 4478.7  | 4051.8 | 3096.0 | 2183.6 | 1382.6 | 809.2  | 544.1  | 463.2  | 444.5  | 444.5  | 442.1  |
| 17.5° | 4333.2  | 3824.3 | 2707.8 | 1661.8 | 867.8  | 494.9  | 414.0  | 403.4  | 403.4  | 408.1  | 408.1  |
| 20°   | 4193.7  | 3607.3 | 2332.6 | 1192.7 | 546.5  | 392.9  | 374.1  | 371.8  | 374.1  | 380.0  | 380.0  |
| 22.5° | 4074.1  | 3410.3 | 1981.9 | 818.6  | 405.8  | 354.2  | 344.8  | 341.3  | 342.4  | 346.0  | 348.3  |
| 25°   | 3984.9  | 3243.8 | 1651.2 | 554.7  | 349.5  | 322.5  | 311.9  | 306.1  | 301.4  | 301.4  | 303.7  |
| 27.5° | 3928.6  | 3103.0 | 1331.0 | 403.4  | 314.3  | 293.2  | 276.8  | 267.4  | 256.8  | 251.0  | 253.3  |
| 30°   | 3887.6  | 2969.4 | 1030.8 | 329.5  | 281.5  | 260.3  | 239.2  | 224.0  | 208.7  | 201.7  | 204.1  |
| 32.5° | 3872.4  | 2861.5 | 770.5  | 290.8  | 252.1  | 228.7  | 202.9  | 182.9  | 166.5  | 160.7  | 161.8  |
| 35°   | 3913.4  | 2775.9 | 564.1  | 262.7  | 228.7  | 199.4  | 170.0  | 147.8  | 134.9  | 131.3  | 132.5  |
| 37.5° | 4021.3  | 2730.1 | 422.2  | 239.2  | 207.6  | 174.7  | 141.9  | 120.8  | 112.6  | 112.6  | 113.8  |
| 40°   | 4225.3  | 2728.9 | 338.9  | 222.8  | 188.8  | 151.3  | 117.3  | 102.0  | 97.3   | 99.7   | 100.9  |
| 42.5° | 4523.2  | 2791.1 | 295.5  | 207.6  | 172.4  | 129.0  | 97.3   | 86.8   | 85.6   | 88.0   | 89.1   |
| 45°   | 4930.2  | 2904.9 | 272.1  | 194.7  | 154.8  | 107.9  | 82.1   | 75.1   | 75.1   | 78.6   | 79.7   |
| 47.5° | 5428.6  | 3071.4 | 252.1  | 181.8  | 137.2  | 90.3   | 70.4   | 65.7   | 66.8   | 70.4   | 71.5   |
| 50°   | 6029.0  | 3281.3 | 232.2  | 167.7  | 124.3  | 75.1   | 61.0   | 57.5   | 58.6   | 63.3   | 64.5   |
| 52.5° | 6712.7  | 3563.9 | 215.8  | 154.8  | 107.9  | 62.2   | 51.6   | 49.3   | 51.6   | 56.3   | 57.5   |
| 55°   | 7299.1  | 3817.2 | 195.8  | 144.2  | 86.8   | 51.6   | 42.2   | 42.2   | 44.6   | 50.4   | 51.6   |
| 57.5° | 7863.2  | 4082.3 | 178.3  | 124.3  | 68.0   | 41.0   | 35.2   | 36.4   | 39.9   | 45.7   | 46.9   |
| 60°   | 8691.1  | 4531.4 | 157.1  | 104.4  | 51.6   | 32.8   | 29.3   | 30.5   | 35.2   | 41.0   | 42.2   |
| 62.5° | 10097.2 | 5215.1 | 136.0  | 86.8   | 39.9   | 25.8   | 23.5   | 25.8   | 31.7   | 38.7   | 39.9   |
| 65°   | 11366.1 | 5493.1 | 111.4  | 72.7   | 30.5   | 19.9   | 19.9   | 23.5   | 30.5   | 37.5   | 38.7   |
| 67.5° | 10658.9 | 4624.1 | 86.8   | 57.5   | 23.5   | 15.2   | 16.4   | 22.3   | 29.3   | 37.5   | 38.7   |
| 69°   | 9426.4  | 3780.9 | 73.9   | 45.7   | 19.9   | 14.1   | 15.2   | 22.3   | 29.3   | 36.4   | 37.5   |
| 70°   | 8465.9  | 3192.2 | 65.7   | 38.7   | 17.6   | 14.1   | 15.2   | 21.1   | 29.3   | 36.4   | 37.5   |
| 72.5° | 5670.1  | 1723.9 | 52.8   | 28.1   | 16.4   | 12.9   | 12.9   | 21.1   | 28.1   | 35.2   | 36.4   |
| 75°   | 2436.9  | 476.1  | 42.2   | 19.9   | 14.1   | 11.7   | 11.7   | 19.9   | 27.0   | 34.0   | 36.4   |
| 77.5° | 445.6   | 120.8  | 34.0   | 17.6   | 14.1   | 11.7   | 10.6   | 18.8   | 25.8   | 32.8   | 34.0   |
| 80°   | 177.1   | 59.8   | 27.0   | 15.2   | 12.9   | 10.6   | 9.4    | 17.6   | 24.6   | 31.7   | 32.8   |
| 82.5° | 106.7   | 34.0   | 22.3   | 14.1   | 12.9   | 9.4    | 8.2    | 15.2   | 23.5   | 30.5   | 31.7   |
| 85°   | 86.8    | 23.5   | 17.6   | 14.1   | 11.7   | 9.4    | 7.0    | 14.1   | 21.1   | 29.3   | 30.5   |
| 87.5° | 42.2    | 16.4   | 16.4   | 12.9   | 11.7   | 9.4    | 7.0    | 12.9   | 19.9   | 28.1   | 29.3   |
| 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)