

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: P193468

Luminaire Tested: **GAN-AF-10-LED-U-AFL-8030-800-HSS-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193468  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-10-LED-U-AFL-8030-800-HSS-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31797 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 419  
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

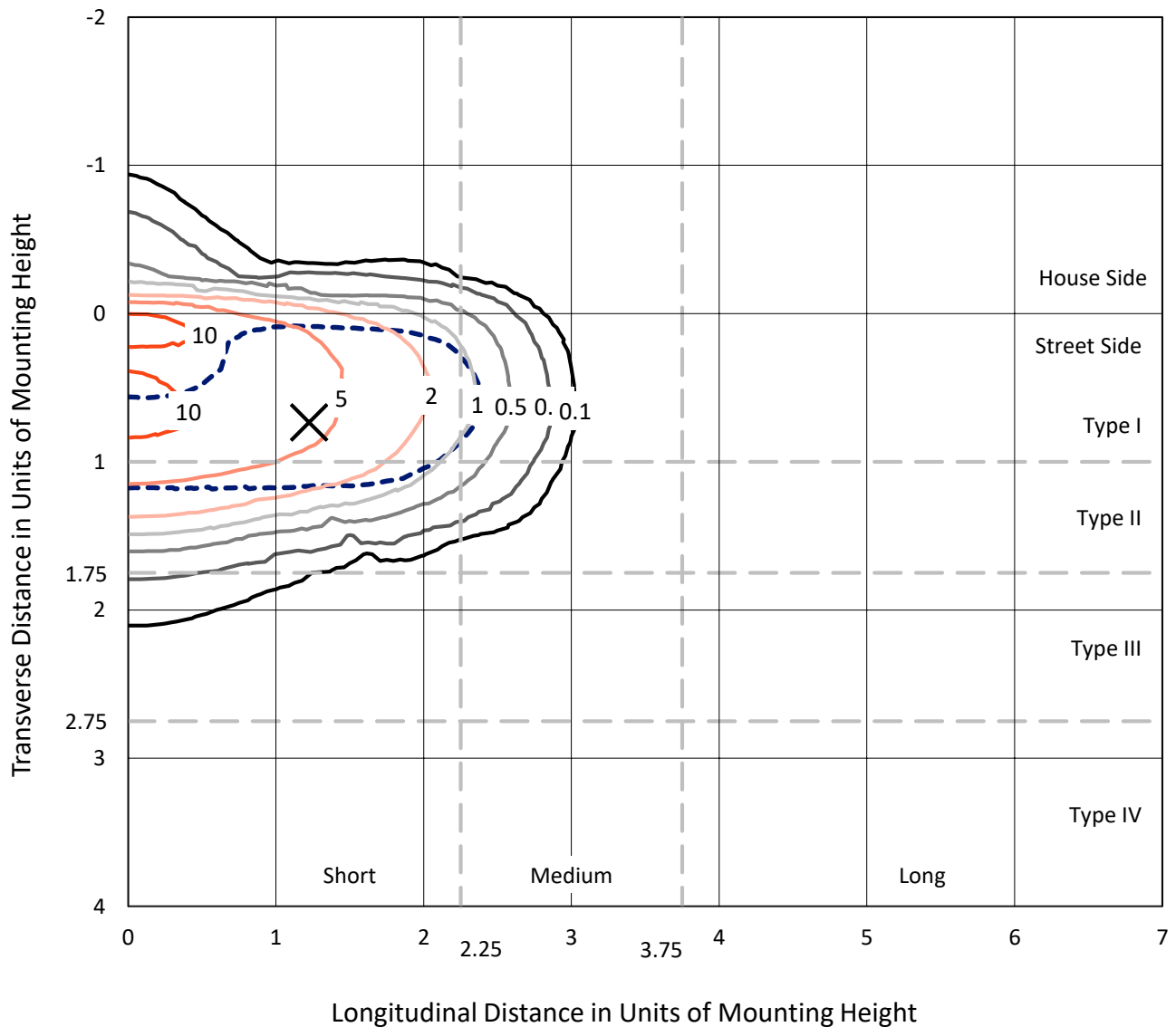


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

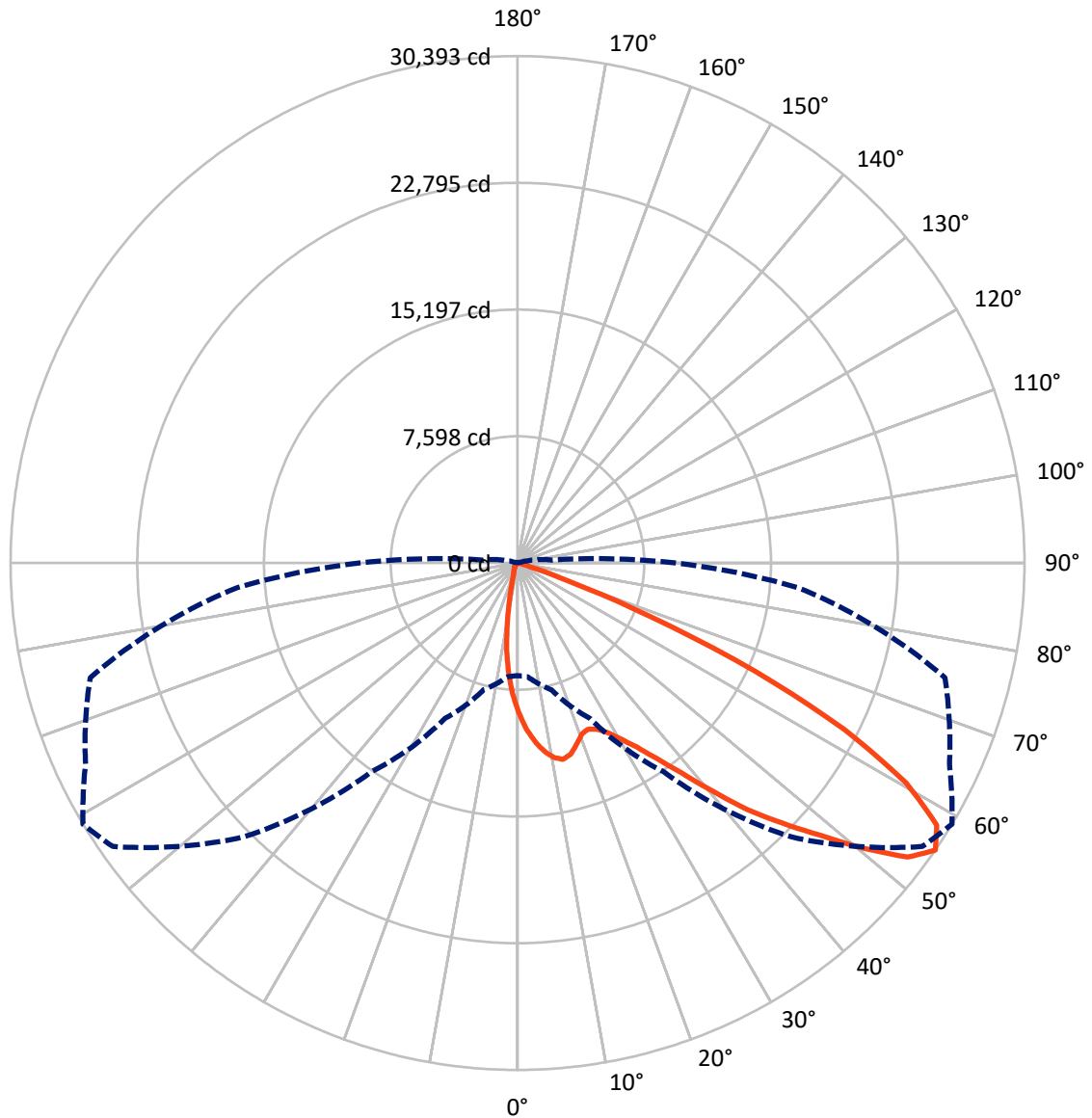


Based on 30 foot mounting height. Maximum calculated value = 12.4 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical



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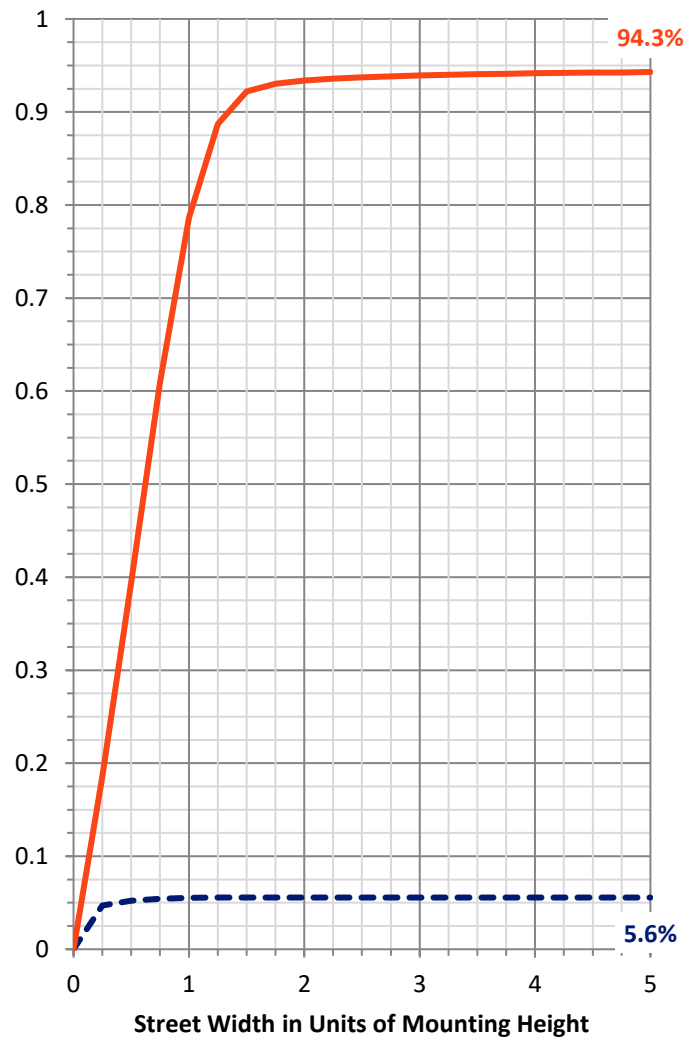
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1776.0   | 0.0    | 1776.0  |
|                    | % Fixture | 5.6      | 0.0    | 5.6     |
| <b>Street Side</b> | Lumens    | 30021.0  | 0.0    | 30021.0 |
|                    | % Fixture | 94.4     | 0.0    | 94.4    |
| <b>Total</b>       | Lumens    | 31797.0  | 0.0    | 31797.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 749.7   | 2.4       |
| 10°-20°   | 1795.0  | 5.6       |
| 20°-30°   | 3054.5  | 9.6       |
| 30°-40°   | 5253.0  | 16.5      |
| 40°-50°   | 8110.1  | 25.5      |
| 50°-60°   | 8153.2  | 25.6      |
| 60°-70°   | 4181.0  | 13.1      |
| 70°-80°   | 453.1   | 1.4       |
| 80°-90°   | 47.4    | 0.1       |
| 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°    | 31797.0 | 100.0     |
| 0°-180°   | 31797.0 | 100.0     |

**Coefficient of Utilization**



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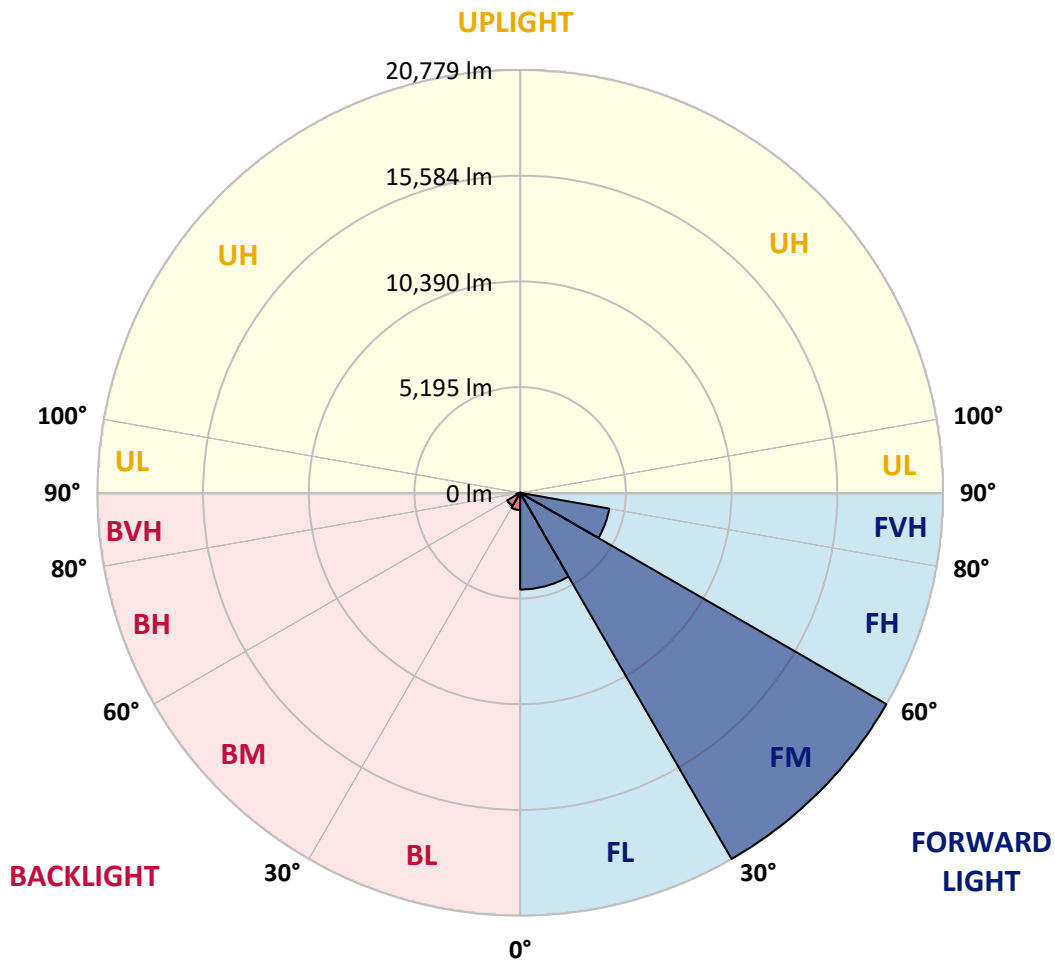
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4751.5  | 14.9      |                         |      |         |
| FM (30°-60°)   | 20779.2 | 65.3      |                         |      |         |
| FH (60°-80°)   | 4443.9  | 14.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 46.4    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 847.7   | 2.7       | B2/1000                 |      |         |
| BM (30°-60°)   | 737.1   | 2.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 190.3   | 0.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.0     | 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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8950.7  | 8950.7  | 8950.7  | 8950.7  | 8950.7  | 8950.7  | 8950.7  | 8950.7  | 8950.7  | 8950.7  | 8950.7  |
| 2.5°  | 10590.8 | 10478.2 | 10444.4 | 10421.9 | 10318.7 | 10189.2 | 10012.8 | 9930.3  | 9761.4  | 9489.3  | 9155.3  |
| 5°    | 11560.9 | 11540.3 | 11465.2 | 11423.9 | 11313.2 | 11129.3 | 10847.8 | 10712.7 | 10444.4 | 9986.5  | 9388.0  |
| 7.5°  | 11136.8 | 11266.3 | 11369.5 | 11542.1 | 11759.8 | 11752.3 | 11515.9 | 11375.1 | 11074.9 | 10470.7 | 9646.9  |
| 10°   | 9498.7  | 9603.8  | 9772.6  | 10164.8 | 10964.2 | 11669.7 | 11947.5 | 11846.1 | 11605.9 | 10915.4 | 9896.5  |
| 12.5° | 9177.8  | 9166.5  | 9196.6  | 9311.0  | 9729.5  | 10735.3 | 11874.3 | 12078.8 | 12030.0 | 11322.6 | 10132.9 |
| 15°   | 9348.6  | 9335.4  | 9331.7  | 9371.1  | 9472.4  | 9896.5  | 11324.5 | 11911.8 | 12289.0 | 11699.8 | 10333.7 |
| 17.5° | 9827.1  | 9770.8  | 9740.7  | 9708.8  | 9678.8  | 9783.9  | 10664.0 | 11444.6 | 12328.4 | 12030.0 | 10500.7 |
| 20°   | 10647.1 | 10553.2 | 10442.5 | 10262.4 | 10093.5 | 10041.0 | 10386.2 | 10964.2 | 12187.6 | 12281.5 | 10609.5 |
| 22.5° | 11677.2 | 11557.2 | 11365.8 | 11037.4 | 10694.0 | 10495.1 | 10523.2 | 10812.2 | 11977.5 | 12555.4 | 10660.2 |
| 25°   | 12835.0 | 12681.2 | 12426.0 | 11970.0 | 11465.2 | 11112.4 | 10928.5 | 11029.9 | 11881.8 | 12876.3 | 10718.4 |
| 27.5° | 14075.4 | 13904.6 | 13570.6 | 12949.5 | 12377.2 | 11900.5 | 11525.3 | 11512.1 | 12045.0 | 13296.6 | 10812.2 |
| 30°   | 15304.5 | 15278.2 | 14842.8 | 14186.1 | 13428.0 | 12848.2 | 12307.7 | 12238.3 | 12501.0 | 13878.3 | 10998.0 |
| 32.5° | 16944.5 | 16747.5 | 16214.5 | 15539.0 | 14664.6 | 13968.4 | 13328.5 | 13167.2 | 13200.9 | 14555.7 | 11285.1 |
| 35°   | 19012.3 | 18796.6 | 18046.0 | 17113.4 | 16135.7 | 15313.8 | 14606.4 | 14386.9 | 14304.3 | 15664.7 | 11769.2 |
| 37.5° | 20348.4 | 20344.6 | 19873.6 | 18924.2 | 17875.2 | 16968.9 | 16199.5 | 15942.5 | 15775.4 | 17004.5 | 12519.8 |
| 40°   | 20384.0 | 20472.2 | 20534.2 | 20524.8 | 19777.9 | 18942.9 | 18259.9 | 17942.8 | 17554.3 | 18794.7 | 13489.9 |
| 42.5° | 19290.1 | 19517.1 | 20063.2 | 20990.1 | 21433.0 | 21100.9 | 20524.8 | 20213.3 | 19635.3 | 20710.6 | 14672.1 |
| 45°   | 17811.4 | 17969.0 | 18924.2 | 20631.7 | 22329.9 | 23240.0 | 22800.9 | 22243.6 | 21481.8 | 22709.0 | 15732.3 |
| 47.5° | 17149.0 | 17177.2 | 17794.5 | 19669.1 | 22397.5 | 24992.6 | 25259.1 | 24352.8 | 23159.3 | 24319.0 | 16561.7 |
| 50°   | 15169.3 | 15220.0 | 16071.9 | 18000.9 | 21605.6 | 25820.2 | 27728.5 | 26869.1 | 24988.9 | 25559.3 | 16863.8 |
| 52.5° | 11433.3 | 11504.6 | 12585.5 | 15259.4 | 19428.9 | 25467.4 | 29496.2 | 29287.9 | 26993.0 | 26165.4 | 16880.7 |
| 55°   | 6745.9  | 6839.7  | 7871.8  | 10271.8 | 15281.9 | 23223.1 | 29627.5 | 30393.1 | 28574.8 | 26523.8 | 16854.4 |
| 57.5° | 3150.6  | 3216.3  | 3807.3  | 5291.6  | 9504.3  | 18353.7 | 27649.7 | 29635.0 | 29447.4 | 26713.4 | 17040.2 |
| 60°   | 1673.8  | 1692.6  | 1835.2  | 2291.2  | 4295.2  | 11637.8 | 23789.8 | 26760.3 | 28651.8 | 26976.1 | 17267.2 |
| 62.5° | 1279.7  | 1285.4  | 1277.9  | 1332.3  | 1805.2  | 5165.9  | 17982.2 | 21999.7 | 25448.6 | 26779.0 | 17015.8 |
| 65°   | 1109.0  | 1118.4  | 1065.8  | 1052.7  | 1157.8  | 1842.7  | 10682.7 | 15681.6 | 19997.5 | 24120.1 | 15302.6 |
| 67.5° | 994.5   | 998.3   | 934.5   | 880.1   | 898.8   | 996.4   | 4214.5  | 8584.8  | 13236.6 | 17680.1 | 11091.8 |
| 70°   | 915.7   | 912.0   | 842.5   | 756.2   | 731.8   | 681.2   | 1339.8  | 3146.8  | 6325.6  | 8965.8  | 5158.4  |
| 72.5° | 810.6   | 812.5   | 778.7   | 666.1   | 608.0   | 476.6   | 621.1   | 917.6   | 1887.7  | 2443.2  | 1208.4  |
| 75°   | 718.7   | 709.3   | 668.0   | 596.7   | 501.0   | 313.4   | 307.7   | 409.1   | 581.7   | 578.0   | 260.8   |
| 77.5° | 519.8   | 510.4   | 523.5   | 489.8   | 384.7   | 202.7   | 153.9   | 197.0   | 236.4   | 228.9   | 73.2    |
| 80°   | 380.9   | 375.3   | 337.8   | 407.2   | 339.6   | 138.9   | 95.7    | 105.1   | 122.0   | 103.2   | 22.5    |
| 82.5° | 260.8   | 259.0   | 238.3   | 225.2   | 193.3   | 84.4    | 60.0    | 65.7    | 78.8    | 58.2    | 11.3    |
| 85°   | 41.3    | 46.9    | 172.6   | 137.0   | 114.5   | 37.5    | 41.3    | 45.0    | 52.5    | 31.9    | 3.8     |
| 87.5° | 0.0     | 0.0     | 80.7    | 71.3    | 22.5    | 15.0    | 24.4    | 26.3    | 26.3    | 16.9    | 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     |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8950.7 | 8950.7 | 8950.7 | 8950.7 | 8950.7 | 8950.7 | 8950.7 | 8950.7 | 8950.7 | 8950.7 | 8950.7 |
| 2.5°  | 8984.5 | 8796.9 | 8449.7 | 8091.3 | 7759.2 | 7363.3 | 7091.2 | 6886.6 | 6650.2 | 6586.4 | 6725.3 |
| 5°    | 9046.4 | 8691.8 | 7945.0 | 7132.4 | 6368.7 | 5522.4 | 4875.1 | 4362.8 | 3899.3 | 3741.7 | 3884.3 |
| 7.5°  | 9144.0 | 8616.7 | 7398.9 | 6061.0 | 4732.4 | 3411.4 | 2507.0 | 1912.1 | 1533.1 | 1420.5 | 1480.5 |
| 10°   | 9241.6 | 8507.9 | 6766.5 | 4792.5 | 2976.1 | 1660.7 | 1080.8 | 863.2  | 782.5  | 765.6  | 775.0  |
| 12.5° | 9322.3 | 8361.5 | 5995.3 | 3407.7 | 1591.2 | 889.4  | 707.4  | 671.8  | 660.5  | 660.5  | 664.3  |
| 15°   | 9371.1 | 8140.1 | 5081.5 | 2167.3 | 915.7  | 671.8  | 617.4  | 606.1  | 606.1  | 608.0  | 611.7  |
| 17.5° | 9365.4 | 7858.6 | 4081.3 | 1311.6 | 684.9  | 594.8  | 562.9  | 553.6  | 551.7  | 555.4  | 557.3  |
| 20°   | 9296.0 | 7490.9 | 3077.4 | 865.1  | 596.7  | 542.3  | 510.4  | 493.5  | 491.6  | 495.4  | 499.1  |
| 22.5° | 9164.7 | 7036.7 | 2201.1 | 666.1  | 538.5  | 491.6  | 452.2  | 437.2  | 437.2  | 441.0  | 444.7  |
| 25°   | 9005.2 | 6481.3 | 1504.9 | 564.8  | 486.0  | 437.2  | 399.7  | 386.6  | 390.3  | 399.7  | 401.6  |
| 27.5° | 8806.3 | 5856.4 | 1022.7 | 484.1  | 422.2  | 382.8  | 354.7  | 345.3  | 354.7  | 367.8  | 371.5  |
| 30°   | 8635.5 | 5205.3 | 729.9  | 418.5  | 358.4  | 330.3  | 313.4  | 313.4  | 326.5  | 350.9  | 356.5  |
| 32.5° | 8504.1 | 4574.8 | 562.9  | 369.7  | 311.5  | 287.1  | 277.7  | 287.1  | 307.7  | 332.1  | 337.8  |
| 35°   | 8487.3 | 4055.0 | 476.6  | 330.3  | 277.7  | 253.3  | 249.6  | 266.5  | 287.1  | 305.9  | 309.6  |
| 37.5° | 8616.7 | 3574.7 | 429.7  | 298.4  | 247.7  | 225.2  | 221.4  | 242.1  | 262.7  | 285.2  | 290.9  |
| 40°   | 8862.5 | 3197.5 | 395.9  | 268.3  | 223.3  | 198.9  | 191.4  | 206.4  | 234.6  | 264.6  | 272.1  |
| 42.5° | 9181.5 | 2886.0 | 358.4  | 238.3  | 198.9  | 165.1  | 155.7  | 172.6  | 202.7  | 234.6  | 243.9  |
| 45°   | 9485.5 | 2617.7 | 317.1  | 204.5  | 167.0  | 127.6  | 123.8  | 146.4  | 161.4  | 193.3  | 200.8  |
| 47.5° | 9652.5 | 2381.2 | 281.5  | 167.0  | 129.5  | 103.2  | 103.2  | 108.8  | 123.8  | 161.4  | 168.9  |
| 50°   | 9596.2 | 2191.7 | 243.9  | 123.8  | 90.1   | 78.8   | 78.8   | 76.9   | 99.5   | 129.5  | 135.1  |
| 52.5° | 9483.7 | 2082.9 | 210.2  | 95.7   | 61.9   | 56.3   | 50.7   | 56.3   | 69.4   | 82.6   | 84.4   |
| 55°   | 9466.8 | 2064.1 | 176.4  | 76.9   | 43.2   | 37.5   | 28.1   | 28.1   | 28.1   | 26.3   | 22.5   |
| 57.5° | 9598.1 | 2094.1 | 148.2  | 61.9   | 31.9   | 24.4   | 15.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 9733.2 | 2126.0 | 127.6  | 43.2   | 22.5   | 13.1   | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 9508.1 | 2054.7 | 107.0  | 26.3   | 16.9   | 5.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 8352.1 | 1748.9 | 84.4   | 18.8   | 11.3   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 5940.9 | 1170.9 | 56.3   | 11.3   | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 2711.5 | 489.8  | 35.7   | 3.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 579.8  | 152.0  | 24.4   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 118.2  | 110.7  | 9.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 37.5   | 174.5  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 22.5   | 125.7  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 3.8    | 18.8   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 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)