

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: P191963

Luminaire Tested: **GAN-AF-05-LED-U-SL3-7050-800-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191963  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
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-SL3-7050-800-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24039 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 210  
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

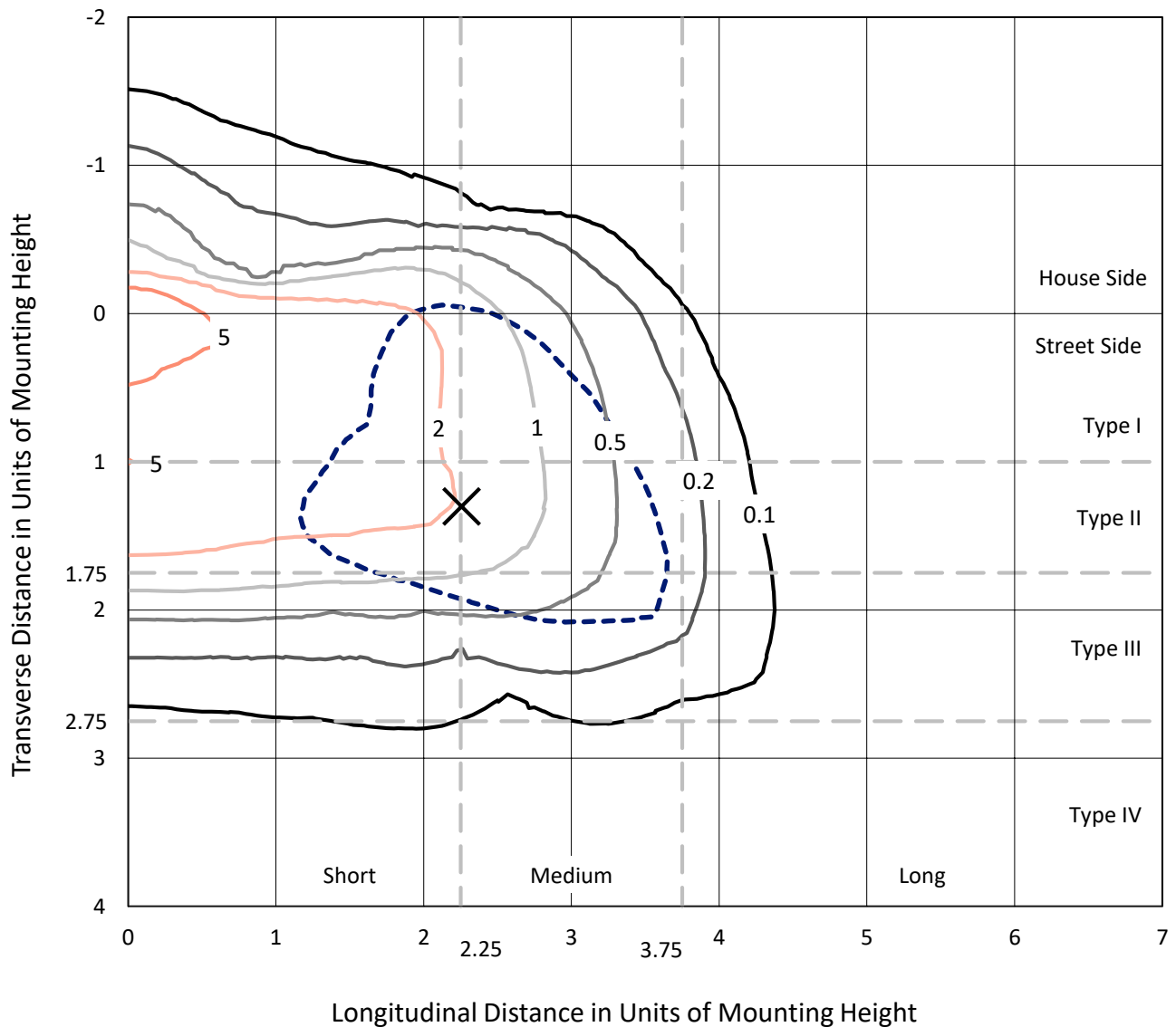


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

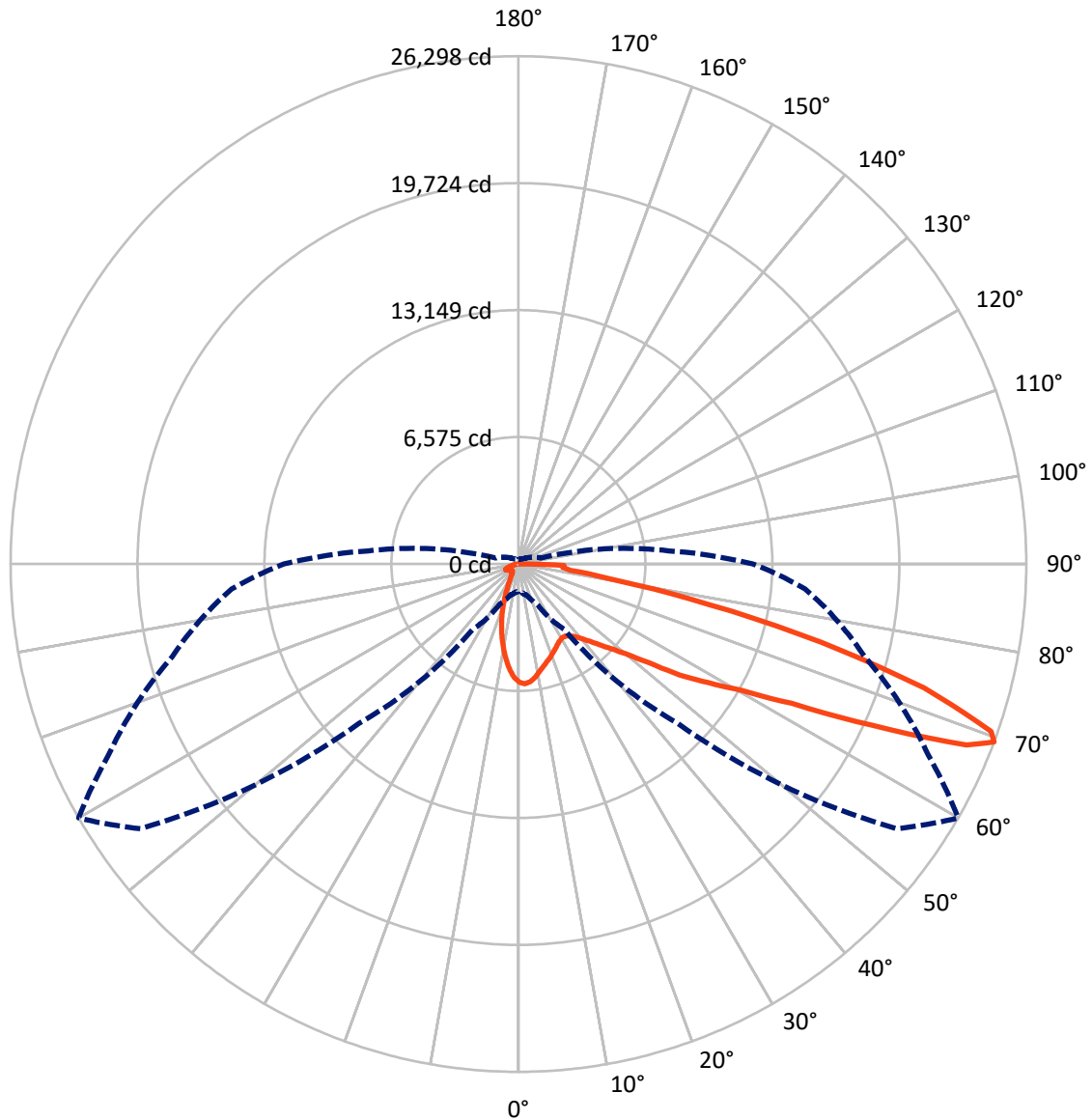


Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3420.0   | 0.0    | 3420.0  |
|                    | % Fixture | 14.2     | 0.0    | 14.2    |
| <b>Street Side</b> | Lumens    | 20619.0  | 0.0    | 20619.0 |
|                    | % Fixture | 85.8     | 0.0    | 85.8    |
| <b>Total</b>       | Lumens    | 24039.0  | 0.0    | 24039.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 517.9   | 2.2       |
| 10°-20°   | 1103.5  | 4.6       |
| 20°-30°   | 1406.0  | 5.8       |
| 30°-40°   | 1933.0  | 8.0       |
| 40°-50°   | 3136.4  | 13.0      |
| 50°-60°   | 5030.0  | 20.9      |
| 60°-70°   | 6694.5  | 27.8      |
| 70°-80°   | 3614.5  | 15.0      |
| 80°-90°   | 603.1   | 2.5       |
| 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°    | 24039.0 | 100.0     |
| 0°-180°   | 24039.0 | 100.0     |

**Coefficient of Utilization**



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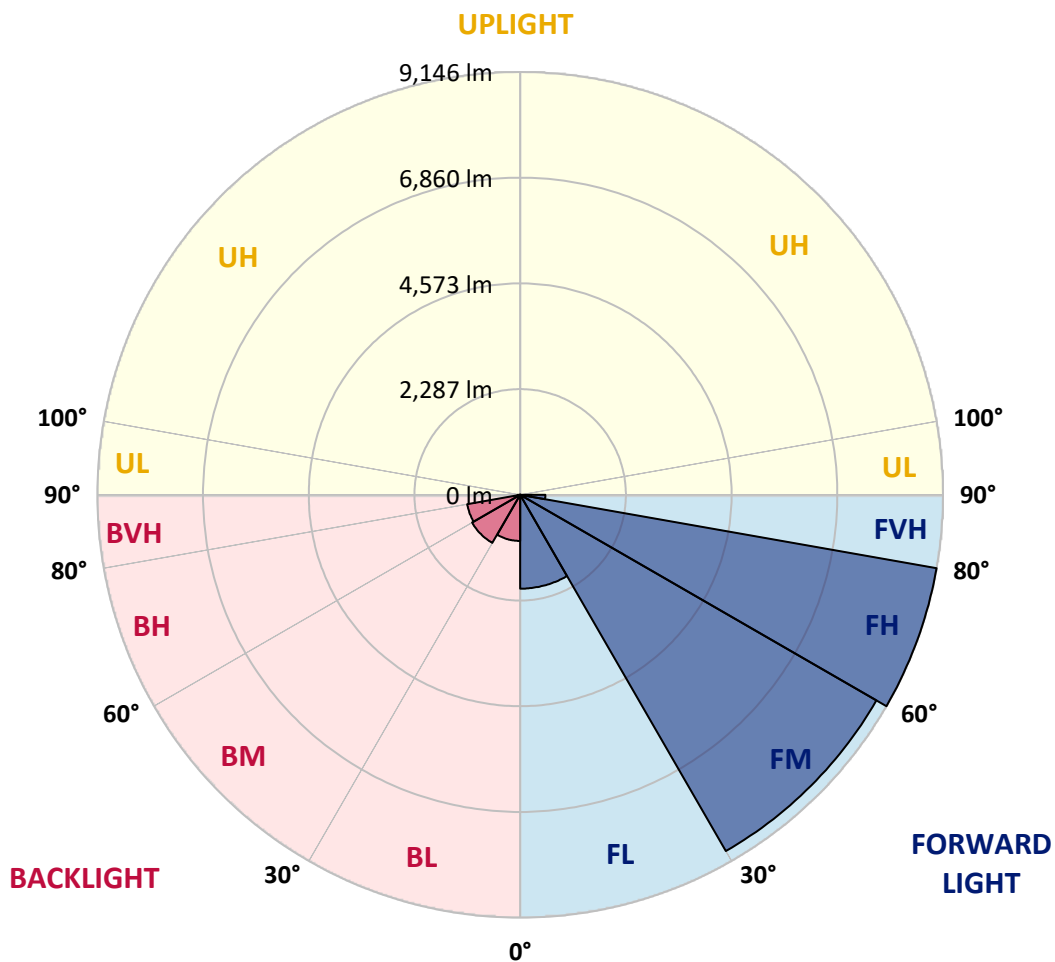
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 2029.8 | 8.4       |                         |      |          |
| FM (30°-60°)   | 8897.8 | 37.0      |                         |      |          |
| FH (60°-80°)   | 9146.4 | 38.0      |                         |      | G4/12000 |
| FVH (80°-90°)  | 545.0  | 2.3       |                         |      | G4/750   |
| BL (0°-30°)    | 997.7  | 4.2       | B2/1000                 |      |          |
| BM (30°-60°)   | 1201.5 | 5.0       | B2/2500                 |      |          |
| BH (60°-80°)   | 1162.7 | 4.8       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 58.1   | 0.2       |                         |      | G1/100   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 60°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6125.5  | 6125.5  | 6125.5  | 6125.5  | 6125.5  | 6125.5  | 6125.5  | 6125.5  | 6125.5  | 6125.5  | 6125.5  |
| 2.5°  | 6250.9  | 6264.9  | 6259.0  | 6255.6  | 6266.0  | 6249.8  | 6216.1  | 6205.6  | 6189.4  | 6151.0  | 6086.0  |
| 5°    | 6016.3  | 6058.2  | 6055.8  | 6087.2  | 6139.4  | 6153.4  | 6138.3  | 6140.6  | 6110.4  | 6062.8  | 5954.8  |
| 7.5°  | 5611.1  | 5628.5  | 5637.8  | 5706.3  | 5801.5  | 5878.2  | 5943.2  | 5964.1  | 5950.2  | 5909.5  | 5770.2  |
| 10°   | 5193.0  | 5207.0  | 5229.0  | 5309.2  | 5429.9  | 5535.6  | 5658.7  | 5729.5  | 5759.7  | 5752.7  | 5597.1  |
| 12.5° | 4834.2  | 4848.1  | 4877.2  | 4967.8  | 5111.7  | 5241.8  | 5420.6  | 5508.9  | 5580.9  | 5623.8  | 5456.6  |
| 15°   | 4512.6  | 4542.7  | 4570.6  | 4675.1  | 4836.5  | 5007.2  | 5209.3  | 5320.8  | 5432.2  | 5528.6  | 5332.4  |
| 17.5° | 4261.7  | 4291.9  | 4308.2  | 4403.4  | 4575.3  | 4784.3  | 5021.2  | 5152.4  | 5291.7  | 5449.7  | 5209.3  |
| 20°   | 4116.6  | 4130.5  | 4123.5  | 4177.0  | 4331.4  | 4553.2  | 4834.2  | 4986.3  | 5154.7  | 5375.3  | 5086.2  |
| 22.5° | 4075.9  | 4077.1  | 4051.5  | 4045.7  | 4145.6  | 4332.6  | 4634.5  | 4819.1  | 5025.8  | 5326.6  | 4980.5  |
| 25°   | 4174.6  | 4171.1  | 4101.5  | 4044.6  | 4055.0  | 4164.2  | 4441.7  | 4656.5  | 4917.8  | 5316.1  | 4899.2  |
| 27.5° | 4394.1  | 4404.6  | 4301.2  | 4194.4  | 4088.7  | 4085.2  | 4295.4  | 4521.8  | 4829.6  | 5363.7  | 4864.4  |
| 30°   | 4701.8  | 4719.2  | 4608.9  | 4473.1  | 4274.5  | 4110.8  | 4238.5  | 4441.7  | 4775.0  | 5462.4  | 4858.6  |
| 32.5° | 5038.6  | 5057.2  | 4973.6  | 4830.7  | 4570.6  | 4268.7  | 4278.0  | 4448.7  | 4772.7  | 5600.6  | 4898.1  |
| 35°   | 5397.4  | 5418.3  | 5375.3  | 5254.6  | 4965.4  | 4560.2  | 4428.9  | 4561.3  | 4848.1  | 5812.0  | 5003.8  |
| 37.5° | 5798.0  | 5830.5  | 5842.2  | 5727.2  | 5418.3  | 4944.5  | 4676.3  | 4775.0  | 5018.8  | 6105.8  | 5197.7  |
| 40°   | 6375.2  | 6420.5  | 6417.0  | 6252.1  | 5937.4  | 5463.6  | 5058.3  | 5083.9  | 5284.8  | 6498.3  | 5507.7  |
| 42.5° | 7480.7  | 7490.0  | 7200.8  | 6842.0  | 6508.7  | 6009.4  | 5508.9  | 5488.0  | 5651.7  | 6995.3  | 5964.1  |
| 45°   | 8886.9  | 8848.6  | 8205.3  | 7512.0  | 7105.6  | 6636.4  | 6095.3  | 5993.1  | 6117.4  | 7601.4  | 6535.4  |
| 47.5° | 10054.0 | 9965.7  | 9152.8  | 8196.0  | 7737.3  | 7318.1  | 6783.9  | 6605.1  | 6673.6  | 8288.9  | 7274.0  |
| 50°   | 10459.2 | 10393.0 | 9719.5  | 8765.0  | 8335.3  | 8149.5  | 7631.6  | 7378.5  | 7397.1  | 9108.7  | 8139.1  |
| 52.5° | 10372.1 | 10362.8 | 9913.4  | 9140.1  | 8895.0  | 9022.8  | 8832.3  | 8489.8  | 8308.6  | 10019.1 | 9072.7  |
| 55°   | 10166.6 | 10186.3 | 10023.8 | 9576.7  | 9534.9  | 9865.8  | 10401.2 | 10148.0 | 9584.8  | 10937.7 | 10037.7 |
| 57.5° | 9452.4  | 9503.5  | 9861.2  | 10125.9 | 10564.9 | 11057.3 | 11664.6 | 11592.6 | 10958.6 | 11930.5 | 11185.0 |
| 60°   | 7615.4  | 7733.8  | 8693.0  | 10019.1 | 11625.1 | 13164.9 | 13436.6 | 13269.4 | 12375.3 | 13162.6 | 12700.4 |
| 62.5° | 5335.9  | 5459.0  | 6599.3  | 8674.4  | 11450.9 | 15545.4 | 16604.5 | 15883.3 | 14409.7 | 14977.6 | 14661.7 |
| 65°   | 2856.6  | 2915.9  | 3786.8  | 6018.7  | 9667.3  | 16036.6 | 21234.3 | 20136.9 | 17631.0 | 17215.3 | 16339.7 |
| 67.5° | 1575.8  | 1608.3  | 1941.6  | 3038.9  | 6191.7  | 14121.8 | 24183.8 | 25013.0 | 21657.0 | 18705.1 | 16034.3 |
| 69°   | 1424.8  | 1455.0  | 1673.3  | 2301.6  | 4143.3  | 11676.2 | 23895.8 | 26298.4 | 23422.1 | 18557.7 | 14905.6 |
| 70°   | 1393.5  | 1421.3  | 1617.6  | 2121.6  | 3353.6  | 9624.3  | 22930.9 | 25969.8 | 23842.4 | 18029.3 | 13920.9 |
| 72.5° | 1254.1  | 1284.3  | 1474.8  | 1905.6  | 2865.9  | 4798.2  | 18164.0 | 21957.7 | 21646.5 | 15632.5 | 10559.1 |
| 75°   | 1169.4  | 1197.2  | 1520.1  | 1866.1  | 2744.0  | 3036.6  | 11974.6 | 16182.9 | 15912.4 | 10935.3 | 5693.5  |
| 77.5° | 500.5   | 498.2   | 704.9   | 1579.3  | 2784.6  | 2940.2  | 6434.4  | 10109.7 | 9223.7  | 4674.0  | 1635.0  |
| 80°   | 334.4   | 328.6   | 334.4   | 464.5   | 2553.6  | 2956.5  | 3371.1  | 5131.5  | 3876.2  | 1191.4  | 805.9   |
| 82.5° | 288.0   | 283.3   | 293.8   | 283.3   | 897.6   | 3374.5  | 2865.9  | 2728.9  | 1842.9  | 677.0   | 399.5   |
| 85°   | 193.9   | 185.8   | 253.1   | 254.3   | 423.8   | 2998.3  | 3228.2  | 2305.0  | 1491.0  | 401.8   | 197.4   |
| 87.5° | 92.9    | 90.6    | 147.5   | 180.0   | 248.5   | 1218.1  | 3621.9  | 2361.9  | 1503.8  | 205.5   | 94.1    |
| 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°    | 6125.5  | 6125.5  | 6125.5 | 6125.5 | 6125.5 | 6125.5 | 6125.5 | 6125.5 | 6125.5 | 6125.5 | 6125.5 |
| 2.5°  | 6066.3  | 6018.7  | 5972.2 | 5916.5 | 5858.4 | 5793.4 | 5760.9 | 5728.4 | 5720.2 | 5710.9 | 5678.4 |
| 5°    | 5899.1  | 5831.7  | 5715.6 | 5587.9 | 5453.1 | 5321.9 | 5222.1 | 5159.4 | 5111.7 | 5087.4 | 5044.4 |
| 7.5°  | 5683.1  | 5584.4  | 5381.2 | 5160.5 | 4934.1 | 4727.4 | 4548.5 | 4435.9 | 4329.1 | 4279.1 | 4222.2 |
| 10°   | 5477.5  | 5330.1  | 5014.2 | 4689.1 | 4363.9 | 4051.5 | 3757.7 | 3549.9 | 3365.3 | 3261.9 | 3188.7 |
| 12.5° | 5301.0  | 5099.0  | 4661.2 | 4221.1 | 3775.2 | 3330.4 | 2890.3 | 2544.3 | 2255.1 | 2103.0 | 2025.2 |
| 15°   | 5129.2  | 4885.3  | 4325.6 | 3767.0 | 3194.6 | 2589.5 | 2011.3 | 1618.8 | 1379.5 | 1284.3 | 1251.8 |
| 17.5° | 4973.6  | 4661.2  | 3988.8 | 3309.5 | 2595.4 | 1863.8 | 1351.7 | 1135.7 | 1043.9 | 1012.6 | 1002.1 |
| 20°   | 4805.2  | 4434.7  | 3639.3 | 2831.1 | 1970.6 | 1302.9 | 1055.6 | 960.3  | 923.2  | 913.9  | 909.2  |
| 22.5° | 4642.6  | 4211.8  | 3304.9 | 2319.0 | 1415.5 | 1005.6 | 906.9  | 867.4  | 861.6  | 869.8  | 869.8  |
| 25°   | 4504.4  | 4012.1  | 2943.7 | 1783.7 | 1039.3 | 846.5  | 811.7  | 802.4  | 824.5  | 854.7  | 860.5  |
| 27.5° | 4401.1  | 3848.3  | 2559.4 | 1316.8 | 828.0  | 736.2  | 735.1  | 750.2  | 804.7  | 862.8  | 874.4  |
| 30°   | 4330.2  | 3692.7  | 2148.3 | 949.9  | 694.4  | 648.0  | 666.5  | 699.1  | 779.2  | 861.6  | 883.7  |
| 32.5° | 4294.2  | 3577.8  | 1719.8 | 735.1  | 594.6  | 569.0  | 600.4  | 639.8  | 718.8  | 795.4  | 824.5  |
| 35°   | 4322.1  | 3493.0  | 1315.7 | 613.1  | 524.9  | 505.1  | 537.7  | 576.0  | 622.4  | 654.9  | 677.0  |
| 37.5° | 4426.6  | 3459.3  | 992.9  | 549.3  | 477.3  | 458.7  | 484.2  | 506.3  | 524.9  | 534.2  | 544.6  |
| 40°   | 4651.9  | 3495.3  | 795.4  | 516.7  | 450.6  | 427.3  | 437.8  | 445.9  | 457.5  | 466.8  | 471.5  |
| 42.5° | 4984.0  | 3603.3  | 713.0  | 504.0  | 436.6  | 402.9  | 400.6  | 404.1  | 419.2  | 436.6  | 440.1  |
| 45°   | 5448.5  | 3793.7  | 707.2  | 512.1  | 429.7  | 383.2  | 372.8  | 377.4  | 400.6  | 427.3  | 432.0  |
| 47.5° | 6041.9  | 4084.1  | 753.6  | 536.5  | 435.5  | 372.8  | 355.3  | 361.1  | 390.2  | 426.2  | 432.0  |
| 50°   | 6760.7  | 4489.3  | 831.4  | 572.5  | 461.0  | 375.1  | 349.5  | 353.0  | 383.2  | 422.7  | 428.5  |
| 52.5° | 7609.6  | 5064.1  | 916.2  | 607.3  | 487.7  | 390.2  | 354.2  | 346.0  | 373.9  | 408.8  | 415.7  |
| 55°   | 8553.6  | 5801.5  | 1003.3 | 638.7  | 501.7  | 408.8  | 363.5  | 336.8  | 356.5  | 385.5  | 391.3  |
| 57.5° | 9712.5  | 6832.7  | 1154.3 | 668.9  | 510.9  | 421.5  | 372.8  | 327.5  | 334.4  | 355.3  | 360.0  |
| 60°   | 11281.4 | 8291.2  | 1420.2 | 718.8  | 531.8  | 426.2  | 371.6  | 319.3  | 312.4  | 324.0  | 326.3  |
| 62.5° | 13161.4 | 9875.1  | 1642.0 | 781.5  | 566.7  | 429.7  | 364.6  | 313.5  | 293.8  | 293.8  | 296.1  |
| 65°   | 14277.4 | 10299.0 | 1518.9 | 833.8  | 595.7  | 426.2  | 356.5  | 307.7  | 279.9  | 267.1  | 268.2  |
| 67.5° | 13331.0 | 9057.6  | 1301.7 | 844.2  | 594.6  | 409.9  | 343.7  | 297.3  | 265.9  | 246.2  | 245.0  |
| 69°   | 12145.3 | 7815.1  | 1204.2 | 816.3  | 566.7  | 389.0  | 327.5  | 285.7  | 255.5  | 234.6  | 233.4  |
| 70°   | 11189.6 | 7056.8  | 1140.3 | 786.2  | 536.5  | 373.9  | 314.7  | 275.2  | 247.3  | 227.6  | 225.3  |
| 72.5° | 8135.6  | 4624.0  | 974.3  | 675.8  | 442.4  | 313.5  | 271.7  | 241.5  | 220.6  | 209.0  | 206.7  |
| 75°   | 4065.5  | 2205.2  | 790.8  | 548.1  | 339.1  | 250.8  | 223.0  | 202.1  | 191.6  | 189.3  | 188.1  |
| 77.5° | 1335.4  | 1010.3  | 565.5  | 408.8  | 252.0  | 196.2  | 180.0  | 164.9  | 162.6  | 169.5  | 167.2  |
| 80°   | 733.9   | 587.6   | 358.8  | 270.6  | 171.9  | 144.0  | 141.7  | 133.5  | 137.0  | 148.6  | 146.3  |
| 82.5° | 373.9   | 305.4   | 221.8  | 162.6  | 116.1  | 103.3  | 112.6  | 108.0  | 112.6  | 123.1  | 121.9  |
| 85°   | 184.6   | 167.2   | 140.5  | 98.7   | 76.6   | 66.2   | 80.1   | 83.6   | 85.9   | 94.1   | 94.1   |
| 87.5° | 106.8   | 98.7    | 74.3   | 46.4   | 38.3   | 34.8   | 46.4   | 45.3   | 53.4   | 58.1   | 56.9   |
| 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)