

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: P194493

Luminaire Tested: **GAN-AF-05-LED-U-SL3-7060-600-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194493  
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-SL3-7060-600-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5700K, 615mA 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: 19603 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 162  
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

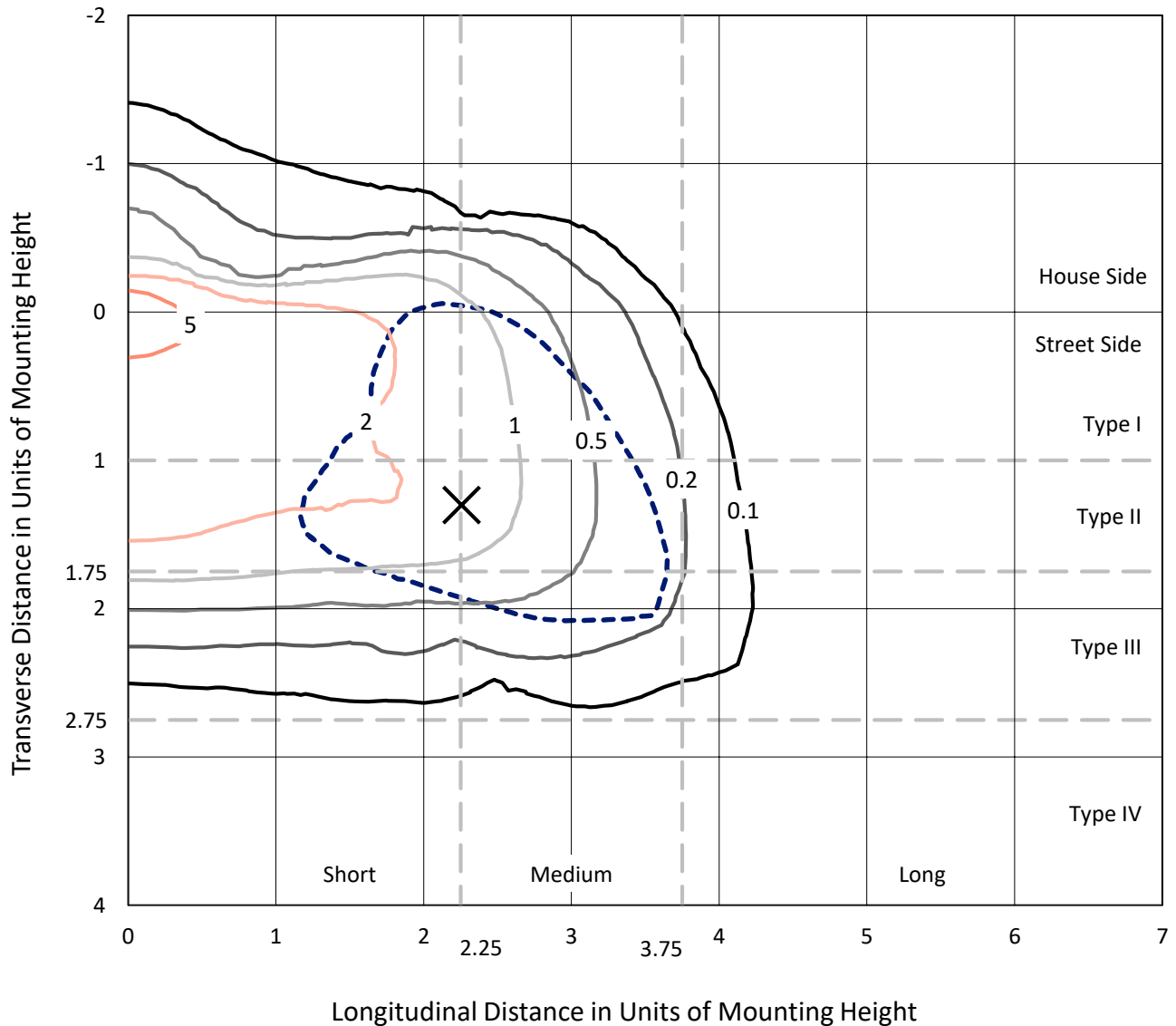


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

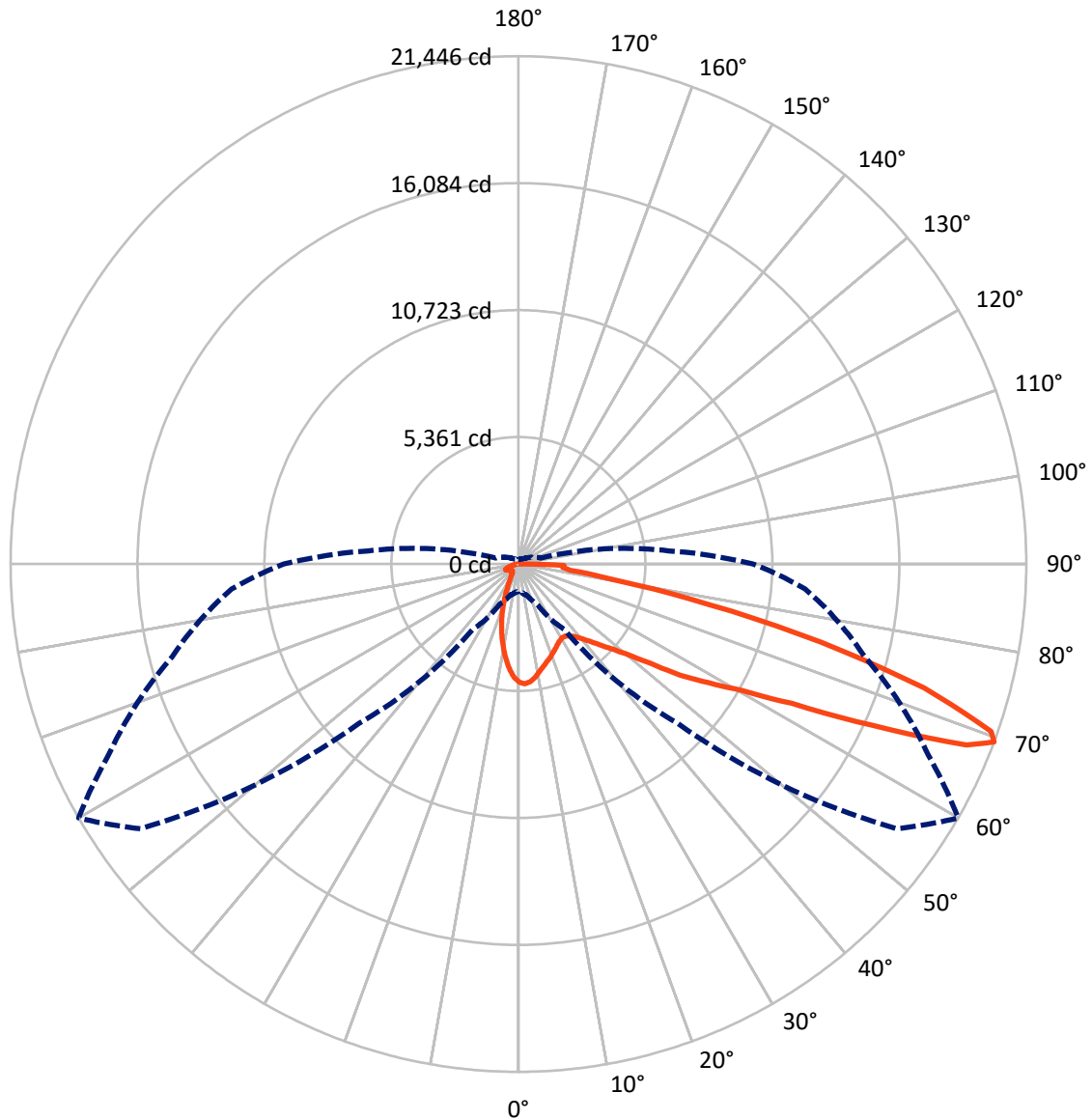


Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Medium - Non-Cutoff

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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    | 2788.9   | 0.0    | 2788.9  |
|                    | % Fixture | 14.2     | 0.0    | 14.2    |
| <b>Street Side</b> | Lumens    | 16814.1  | 0.0    | 16814.1 |
|                    | % Fixture | 85.8     | 0.0    | 85.8    |
| <b>Total</b>       | Lumens    | 19603.0  | 0.0    | 19603.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 422.4   | 2.2       |
| 10°-20°   | 899.9   | 4.6       |
| 20°-30°   | 1146.6  | 5.8       |
| 30°-40°   | 1576.3  | 8.0       |
| 40°-50°   | 2557.6  | 13.0      |
| 50°-60°   | 4101.8  | 20.9      |
| 60°-70°   | 5459.2  | 27.8      |
| 70°-80°   | 2947.5  | 15.0      |
| 80°-90°   | 491.8   | 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°    | 19603.0 | 100.0     |
| 0°-180°   | 19603.0 | 100.0     |

**Coefficient of Utilization**



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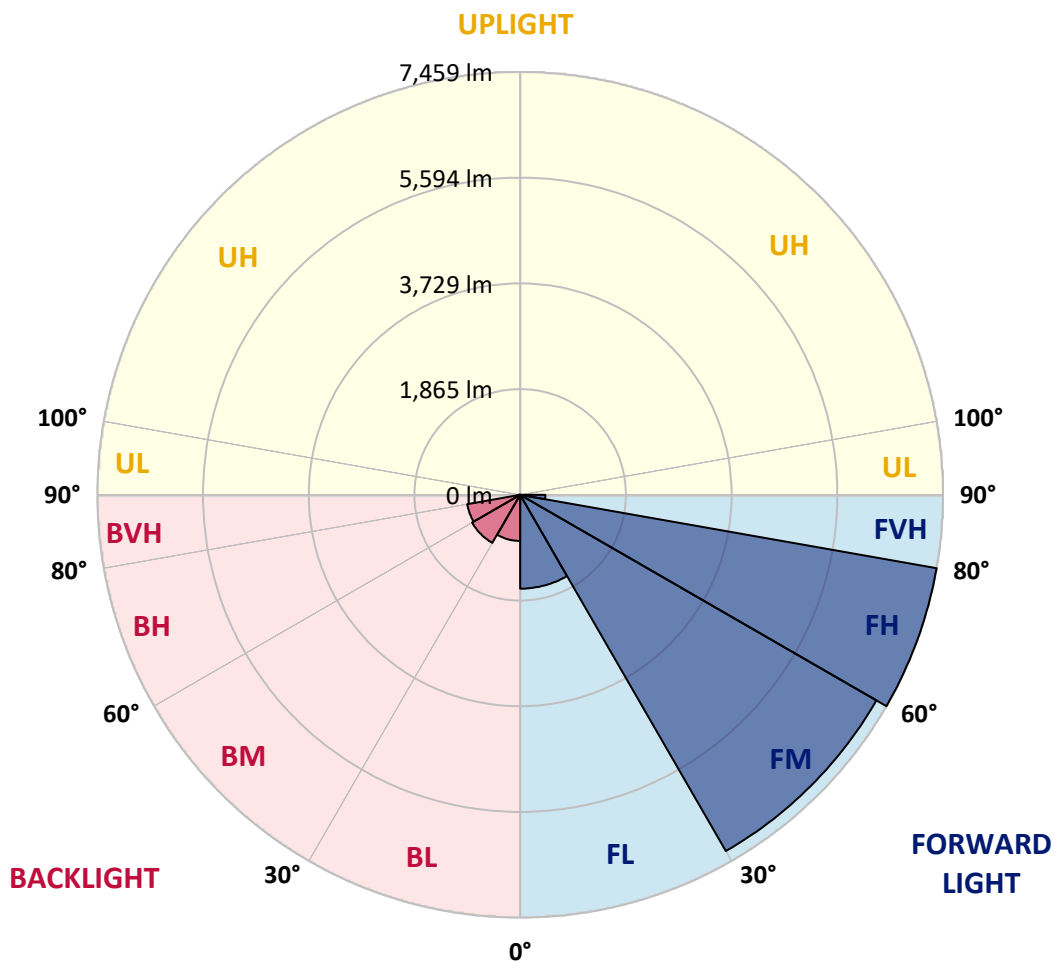
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1655.2 | 8.4       |                         |      |         |
| FM (30°-60°)   | 7255.9 | 37.0      |                         |      |         |
| FH (60°-80°)   | 7458.6 | 38.0      |                         |      | G3/7500 |
| FVH (80°-90°)  | 444.5  | 2.3       |                         |      | G3/500  |
| BL (0°-30°)    | 813.6  | 4.2       | B2/1000                 |      |         |
| BM (30°-60°)   | 979.8  | 5.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 948.1  | 4.8       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 47.4   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 60°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 4995.1 | 4995.1 | 4995.1 | 4995.1 | 4995.1 | 4995.1  | 4995.1  | 4995.1  | 4995.1  | 4995.1  | 4995.1  |
| 2.5°  | 5097.4 | 5108.8 | 5104.0 | 5101.2 | 5109.7 | 5096.5  | 5069.0  | 5060.5  | 5047.2  | 5016.0  | 4962.9  |
| 5°    | 4906.1 | 4940.2 | 4938.3 | 4963.9 | 5006.5 | 5017.9  | 5005.6  | 5007.5  | 4982.8  | 4944.0  | 4855.9  |
| 7.5°  | 4575.6 | 4589.8 | 4597.4 | 4653.3 | 4730.9 | 4793.4  | 4846.5  | 4863.5  | 4852.2  | 4819.0  | 4705.4  |
| 10°   | 4234.7 | 4246.1 | 4264.1 | 4329.4 | 4427.9 | 4514.1  | 4614.5  | 4672.2  | 4696.9  | 4691.2  | 4564.3  |
| 12.5° | 3942.1 | 3953.5 | 3977.2 | 4051.0 | 4168.5 | 4274.5  | 4420.3  | 4492.3  | 4551.0  | 4586.1  | 4449.7  |
| 15°   | 3679.8 | 3704.5 | 3727.2 | 3812.4 | 3944.0 | 4083.2  | 4248.0  | 4338.9  | 4429.8  | 4508.4  | 4348.4  |
| 17.5° | 3475.3 | 3499.9 | 3513.2 | 3590.8 | 3731.0 | 3901.4  | 4094.6  | 4201.6  | 4315.2  | 4444.0  | 4248.0  |
| 20°   | 3356.9 | 3368.3 | 3362.6 | 3406.2 | 3532.1 | 3713.0  | 3942.1  | 4066.2  | 4203.5  | 4383.4  | 4147.6  |
| 22.5° | 3323.8 | 3324.7 | 3303.9 | 3299.2 | 3380.6 | 3533.1  | 3779.3  | 3929.8  | 4098.4  | 4343.6  | 4061.5  |
| 25°   | 3404.3 | 3401.4 | 3344.6 | 3298.2 | 3306.7 | 3395.7  | 3622.1  | 3797.3  | 4010.3  | 4335.1  | 3995.2  |
| 27.5° | 3583.2 | 3591.8 | 3507.5 | 3420.4 | 3334.2 | 3331.4  | 3502.8  | 3687.4  | 3938.3  | 4373.9  | 3966.8  |
| 30°   | 3834.2 | 3848.4 | 3758.4 | 3647.6 | 3485.7 | 3352.2  | 3456.4  | 3622.1  | 3893.8  | 4454.4  | 3962.0  |
| 32.5° | 4108.8 | 4124.0 | 4055.8 | 3939.3 | 3727.2 | 3481.0  | 3488.6  | 3627.8  | 3891.9  | 4567.1  | 3994.2  |
| 35°   | 4401.4 | 4418.5 | 4383.4 | 4284.9 | 4049.1 | 3718.7  | 3611.7  | 3719.6  | 3953.5  | 4739.5  | 4080.4  |
| 37.5° | 4728.1 | 4754.6 | 4764.1 | 4670.3 | 4418.5 | 4032.1  | 3813.4  | 3893.8  | 4092.7  | 4979.0  | 4238.5  |
| 40°   | 5198.7 | 5235.7 | 5232.8 | 5098.4 | 4841.7 | 4455.4  | 4124.9  | 4145.7  | 4309.6  | 5299.1  | 4491.4  |
| 42.5° | 6100.2 | 6107.8 | 5872.0 | 5579.4 | 5307.6 | 4900.4  | 4492.3  | 4475.3  | 4608.8  | 5704.4  | 4863.5  |
| 45°   | 7247.0 | 7215.7 | 6691.1 | 6125.8 | 5794.4 | 5411.8  | 4970.5  | 4887.2  | 4988.5  | 6198.7  | 5329.4  |
| 47.5° | 8198.7 | 8126.7 | 7463.8 | 6683.5 | 6309.5 | 5967.7  | 5532.1  | 5386.2  | 5442.1  | 6759.3  | 5931.7  |
| 50°   | 8529.1 | 8475.2 | 7925.9 | 7147.6 | 6797.2 | 6645.7  | 6223.3  | 6016.9  | 6032.0  | 7427.8  | 6637.1  |
| 52.5° | 8458.1 | 8450.5 | 8084.1 | 7453.4 | 7253.6 | 7357.8  | 7202.5  | 6923.1  | 6775.4  | 8170.3  | 7398.5  |
| 55°   | 8290.5 | 8306.6 | 8174.0 | 7809.5 | 7775.4 | 8045.3  | 8481.8  | 8275.4  | 7816.1  | 8919.3  | 8185.4  |
| 57.5° | 7708.1 | 7749.8 | 8041.5 | 8257.4 | 8615.3 | 9016.8  | 9512.1  | 9453.4  | 8936.3  | 9728.9  | 9121.0  |
| 60°   | 6210.1 | 6306.7 | 7088.8 | 8170.3 | 9479.9 | 10735.5 | 10957.1 | 10820.8 | 10091.6 | 10733.6 | 10356.8 |
| 62.5° | 4351.2 | 4451.6 | 5381.5 | 7073.7 | 9337.8 | 12676.8 | 13540.4 | 12952.3 | 11750.7 | 12213.7 | 11956.1 |
| 65°   | 2329.5 | 2377.8 | 3088.0 | 4908.0 | 7883.3 | 13077.3 | 17315.9 | 16421.0 | 14377.5 | 14038.5 | 13324.5 |
| 67.5° | 1285.0 | 1311.5 | 1583.3 | 2478.2 | 5049.1 | 11515.8 | 19721.1 | 20397.2 | 17660.5 | 15253.4 | 13075.4 |
| 69°   | 1161.9 | 1186.5 | 1364.5 | 1876.8 | 3378.7 | 9521.5  | 19486.3 | 21445.5 | 19099.9 | 15133.1 | 12155.0 |
| 70°   | 1136.3 | 1159.1 | 1319.1 | 1730.1 | 2734.8 | 7848.3  | 18699.3 | 21177.5 | 19442.7 | 14702.3 | 11352.0 |
| 72.5° | 1022.7 | 1047.3 | 1202.6 | 1553.9 | 2337.1 | 3912.8  | 14812.1 | 17905.8 | 17652.0 | 12747.8 | 8610.6  |
| 75°   | 953.6  | 976.3  | 1239.6 | 1521.7 | 2237.6 | 2476.3  | 9764.9  | 13196.6 | 12976.0 | 8917.4  | 4642.9  |
| 77.5° | 408.1  | 406.2  | 574.8  | 1287.8 | 2270.8 | 2397.7  | 5247.0  | 8244.1  | 7521.6  | 3811.5  | 1333.3  |
| 80°   | 272.7  | 268.0  | 272.7  | 378.8  | 2082.3 | 2410.9  | 2749.0  | 4184.6  | 3160.9  | 971.6   | 657.2   |
| 82.5° | 234.8  | 231.1  | 239.6  | 231.1  | 732.0  | 2751.8  | 2337.1  | 2225.3  | 1502.8  | 552.1   | 325.7   |
| 85°   | 158.1  | 151.5  | 206.4  | 207.4  | 345.6  | 2445.0  | 2632.5  | 1879.7  | 1215.9  | 327.6   | 161.0   |
| 87.5° | 75.8   | 73.9   | 120.3  | 146.8  | 202.6  | 993.3   | 2953.5  | 1926.1  | 1226.3  | 167.6   | 76.7    |
| 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°    | 4995.1  | 4995.1 | 4995.1 | 4995.1 | 4995.1 | 4995.1 | 4995.1 | 4995.1 | 4995.1 | 4995.1 | 4995.1 |
| 2.5°  | 4946.8  | 4908.0 | 4870.1 | 4824.7 | 4777.3 | 4724.3 | 4697.8 | 4671.3 | 4664.7 | 4657.1 | 4630.6 |
| 5°    | 4810.5  | 4755.6 | 4660.9 | 4556.7 | 4446.9 | 4339.9 | 4258.4 | 4207.3 | 4168.5 | 4148.6 | 4113.5 |
| 7.5°  | 4634.4  | 4553.9 | 4388.1 | 4208.2 | 4023.6 | 3855.0 | 3709.2 | 3617.3 | 3530.2 | 3489.5 | 3443.1 |
| 10°   | 4466.7  | 4346.5 | 4088.9 | 3823.8 | 3558.6 | 3303.9 | 3064.3 | 2894.8 | 2744.3 | 2660.0 | 2600.3 |
| 12.5° | 4322.8  | 4158.0 | 3801.0 | 3442.2 | 3078.5 | 2715.8 | 2356.9 | 2074.8 | 1839.0 | 1714.9 | 1651.5 |
| 15°   | 4182.7  | 3983.8 | 3527.4 | 3071.9 | 2605.0 | 2111.7 | 1640.1 | 1320.0 | 1125.0 | 1047.3 | 1020.8 |
| 17.5° | 4055.8  | 3801.0 | 3252.8 | 2698.8 | 2116.4 | 1519.8 | 1102.2 | 926.1  | 851.3  | 825.7  | 817.2  |
| 20°   | 3918.5  | 3616.4 | 2967.7 | 2308.7 | 1607.0 | 1062.5 | 860.8  | 783.1  | 752.8  | 745.2  | 741.5  |
| 22.5° | 3785.9  | 3434.6 | 2695.0 | 1891.1 | 1154.3 | 820.1  | 739.6  | 707.4  | 702.6  | 709.3  | 709.3  |
| 25°   | 3673.2  | 3271.7 | 2400.5 | 1454.5 | 847.5  | 690.3  | 661.9  | 654.3  | 672.3  | 697.0  | 701.7  |
| 27.5° | 3588.9  | 3138.2 | 2087.1 | 1073.8 | 675.2  | 600.4  | 599.4  | 611.7  | 656.2  | 703.6  | 713.1  |
| 30°   | 3531.2  | 3011.3 | 1751.9 | 774.6  | 566.3  | 528.4  | 543.5  | 570.1  | 635.4  | 702.6  | 720.6  |
| 32.5° | 3501.8  | 2917.5 | 1402.4 | 599.4  | 484.8  | 464.0  | 489.6  | 521.8  | 586.2  | 648.7  | 672.3  |
| 35°   | 3524.5  | 2848.4 | 1072.9 | 500.0  | 428.0  | 411.9  | 438.4  | 469.7  | 507.6  | 534.1  | 552.1  |
| 37.5° | 3609.8  | 2821.0 | 809.6  | 447.9  | 389.2  | 374.0  | 394.9  | 412.9  | 428.0  | 435.6  | 444.1  |
| 40°   | 3793.5  | 2850.3 | 648.7  | 421.4  | 367.4  | 348.5  | 357.0  | 363.6  | 373.1  | 380.7  | 384.5  |
| 42.5° | 4064.3  | 2938.4 | 581.4  | 411.0  | 356.1  | 328.6  | 326.7  | 329.5  | 341.8  | 356.1  | 358.9  |
| 45°   | 4443.1  | 3093.7 | 576.7  | 417.6  | 350.4  | 312.5  | 304.0  | 307.8  | 326.7  | 348.5  | 352.3  |
| 47.5° | 4927.0  | 3330.4 | 614.6  | 437.5  | 355.1  | 304.0  | 289.8  | 294.5  | 318.2  | 347.5  | 352.3  |
| 50°   | 5513.1  | 3660.9 | 678.0  | 466.8  | 375.9  | 305.9  | 285.0  | 287.9  | 312.5  | 344.7  | 349.4  |
| 52.5° | 6205.3  | 4129.6 | 747.1  | 495.3  | 397.7  | 318.2  | 288.8  | 282.2  | 304.9  | 333.3  | 339.0  |
| 55°   | 6975.2  | 4730.9 | 818.2  | 520.8  | 409.1  | 333.3  | 296.4  | 274.6  | 290.7  | 314.4  | 319.1  |
| 57.5° | 7920.3  | 5571.8 | 941.3  | 545.4  | 416.7  | 343.7  | 304.0  | 267.0  | 272.7  | 289.8  | 293.6  |
| 60°   | 9199.6  | 6761.2 | 1158.1 | 586.2  | 433.7  | 347.5  | 303.0  | 260.4  | 254.7  | 264.2  | 266.1  |
| 62.5° | 10732.7 | 8052.8 | 1339.0 | 637.3  | 462.1  | 350.4  | 297.3  | 255.7  | 239.6  | 239.6  | 241.5  |
| 65°   | 11642.7 | 8398.5 | 1238.6 | 679.9  | 485.8  | 347.5  | 290.7  | 250.9  | 228.2  | 217.8  | 218.7  |
| 67.5° | 10870.9 | 7386.2 | 1061.5 | 688.4  | 484.8  | 334.3  | 280.3  | 242.4  | 216.9  | 200.8  | 199.8  |
| 69°   | 9904.1  | 6372.9 | 982.0  | 665.7  | 462.1  | 317.2  | 267.0  | 232.9  | 208.3  | 191.3  | 190.3  |
| 70°   | 9124.8  | 5754.6 | 929.9  | 641.1  | 437.5  | 304.9  | 256.6  | 224.4  | 201.7  | 185.6  | 183.7  |
| 72.5° | 6634.3  | 3770.7 | 794.5  | 551.1  | 360.8  | 255.7  | 221.6  | 197.0  | 179.9  | 170.5  | 168.6  |
| 75°   | 3315.3  | 1798.3 | 644.9  | 447.0  | 276.5  | 204.5  | 181.8  | 164.8  | 156.2  | 154.4  | 153.4  |
| 77.5° | 1089.0  | 823.8  | 461.2  | 333.3  | 205.5  | 160.0  | 146.8  | 134.5  | 132.6  | 138.3  | 136.4  |
| 80°   | 598.5   | 479.2  | 292.6  | 220.6  | 140.1  | 117.4  | 115.5  | 108.9  | 111.7  | 121.2  | 119.3  |
| 82.5° | 304.9   | 249.0  | 180.9  | 132.6  | 94.7   | 84.3   | 91.9   | 88.1   | 91.9   | 100.4  | 99.4   |
| 85°   | 150.6   | 136.4  | 114.6  | 80.5   | 62.5   | 54.0   | 65.3   | 68.2   | 70.1   | 76.7   | 76.7   |
| 87.5° | 87.1    | 80.5   | 60.6   | 37.9   | 31.2   | 28.4   | 37.9   | 36.9   | 43.6   | 47.3   | 46.4   |
| 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)