

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: P191096

Luminaire Tested: **GAN-AF-08-LED-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191096  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-08-LED-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47806.6 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G5

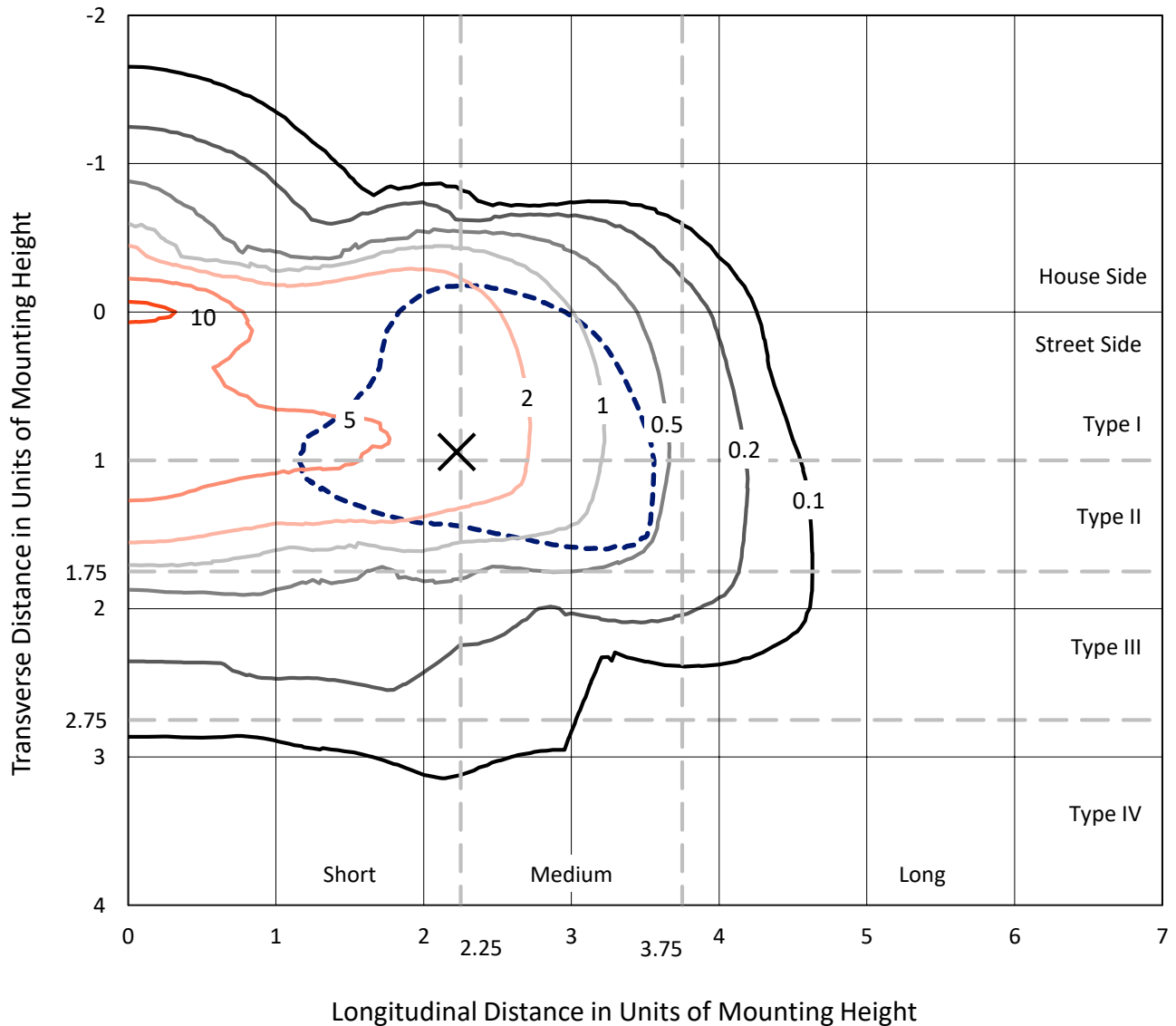
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

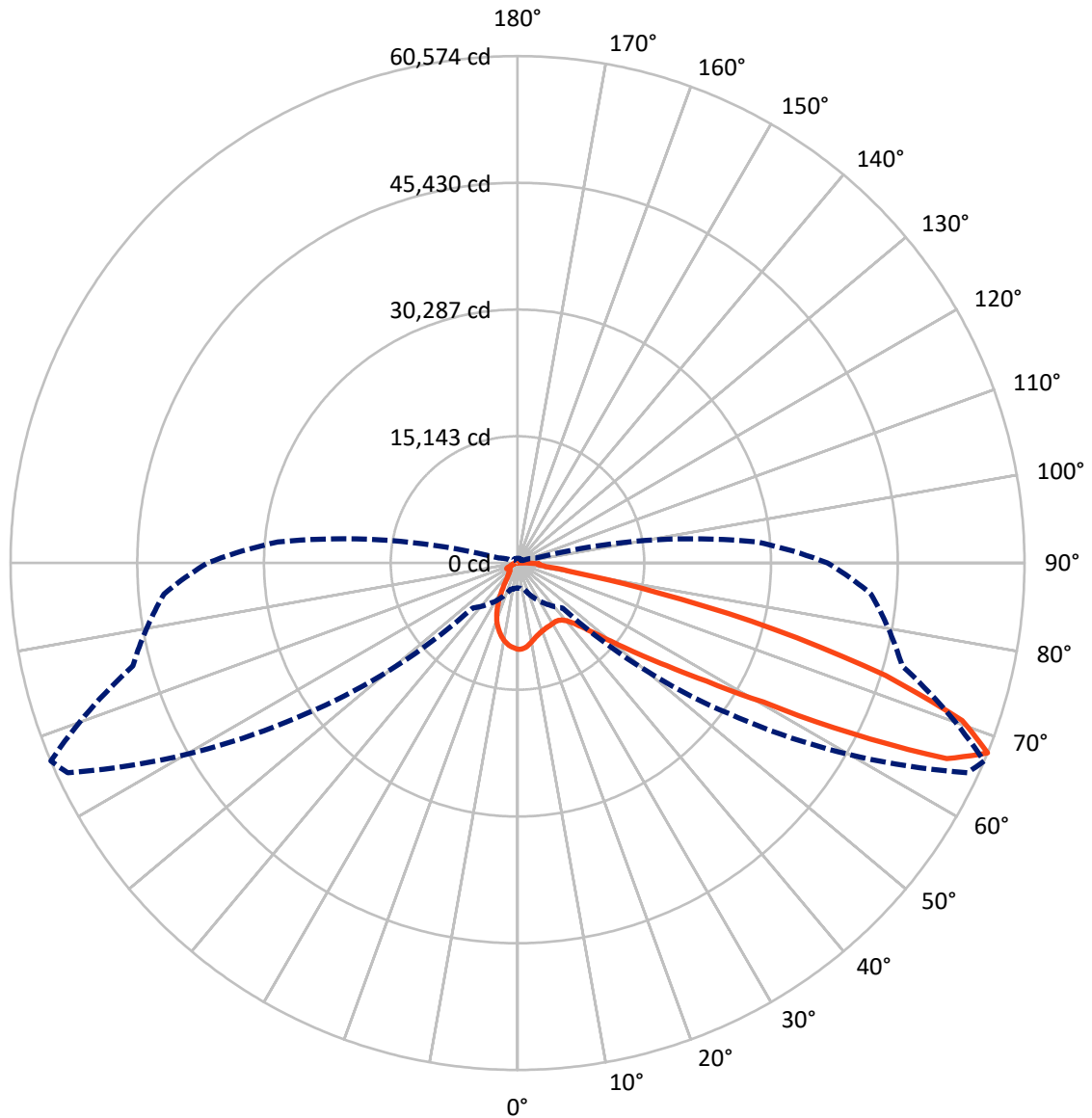


Based on 30 foot mounting height. Maximum calculated value = 11.5 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7921.0   | 0.0    | 7921.0  |
|                    | % Fixture | 16.6     | 0.0    | 16.6    |
| <b>Street Side</b> | Lumens    | 39885.6  | 0.0    | 39885.6 |
|                    | % Fixture | 83.4     | 0.0    | 83.4    |
| <b>Total</b>       | Lumens    | 47806.6  | 0.0    | 47806.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 879.8   | 1.8       |
| 10°-20°   | 2035.6  | 4.3       |
| 20°-30°   | 2759.3  | 5.8       |
| 30°-40°   | 3922.6  | 8.2       |
| 40°-50°   | 6562.7  | 13.7      |
| 50°-60°   | 10382.1 | 21.7      |
| 60°-70°   | 13225.8 | 27.7      |
| 70°-80°   | 6927.7  | 14.5      |
| 80°-90°   | 1111.1  | 2.3       |
| 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°    | 47806.6 | 100.0     |
| 0°-180°   | 47806.6 | 100.0     |

**Coefficient of Utilization**



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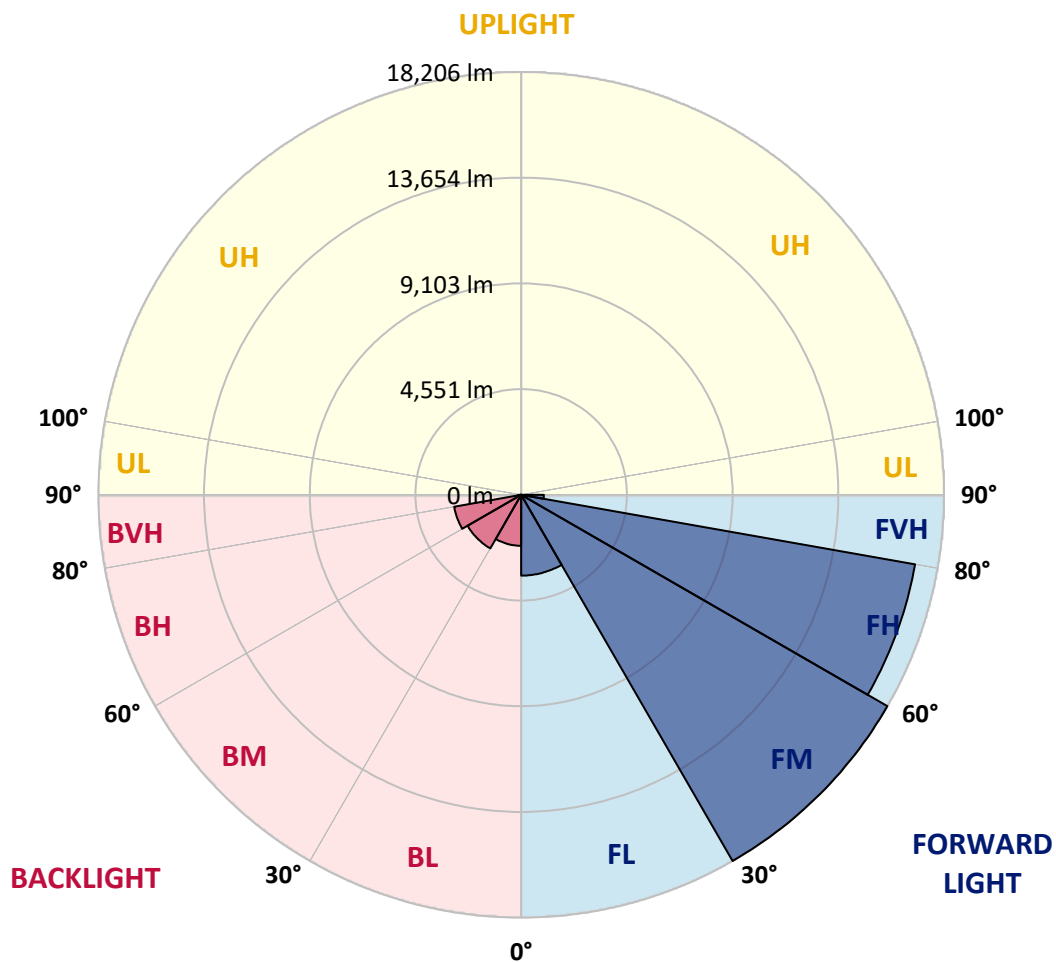
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3479.2  | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 18205.7 | 38.1      |                         |      |         |
| FH   | (60°-80°)   | 17223.7 | 36.0      |                         |      | G5      |
| FVH  | (80°-90°)   | 977.0   | 2.0       |                         |      | G5      |
| BL   | (0°-30°)    | 2195.5  | 4.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2661.7  | 5.6       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2929.7  | 6.1       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 134.1   | 0.3       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10311.8 | 10311.8 | 10311.8 | 10311.8 | 10311.8 | 10311.8 | 10311.8 | 10311.8 | 10311.8 | 10311.8 | 10311.8 |
| 2.5°  | 9887.4  | 9903.9  | 9955.8  | 9988.8  | 10137.3 | 10201.0 | 10245.8 | 10290.6 | 10297.6 | 10318.8 | 10297.6 |
| 5°    | 8850.1  | 8885.5  | 8982.1  | 9090.6  | 9378.2  | 9604.5  | 9842.6  | 10090.2 | 10135.0 | 10295.3 | 10340.1 |
| 7.5°  | 8046.2  | 8036.8  | 8116.9  | 8246.6  | 8541.2  | 8854.9  | 9272.1  | 9764.8  | 9861.5  | 10222.1 | 10396.7 |
| 10°   | 7459.2  | 7452.1  | 7537.0  | 7671.3  | 7951.9  | 8249.0  | 8720.5  | 9394.7  | 9531.4  | 10106.7 | 10450.9 |
| 12.5° | 7025.4  | 7027.8  | 7112.6  | 7261.1  | 7546.4  | 7845.8  | 8324.4  | 9036.3  | 9210.9  | 9972.2  | 10507.4 |
| 15°   | 6737.8  | 6756.6  | 6825.0  | 6983.0  | 7261.1  | 7560.5  | 8029.7  | 8767.6  | 8963.3  | 9866.2  | 10571.1 |
| 17.5° | 6641.1  | 6671.8  | 6695.3  | 6810.8  | 7048.9  | 7348.4  | 7808.1  | 8569.6  | 8777.0  | 9793.1  | 10627.6 |
| 20°   | 6730.7  | 6766.1  | 6721.3  | 6761.4  | 6912.2  | 7176.3  | 7633.7  | 8414.0  | 8626.1  | 9710.6  | 10634.7 |
| 22.5° | 7114.9  | 7148.0  | 7016.0  | 6900.4  | 6891.0  | 7051.3  | 7489.8  | 8291.3  | 8510.6  | 9649.3  | 10637.1 |
| 25°   | 7791.6  | 7812.8  | 7591.2  | 7322.5  | 7060.7  | 7006.5  | 7388.5  | 8206.5  | 8439.9  | 9595.1  | 10592.3 |
| 27.5° | 8621.4  | 8637.9  | 8383.3  | 7987.3  | 7461.5  | 7112.6  | 7353.1  | 8157.0  | 8399.9  | 9547.9  | 10516.9 |
| 30°   | 9630.5  | 9708.2  | 9366.4  | 8866.6  | 8100.4  | 7426.2  | 7423.8  | 8131.0  | 8355.1  | 9467.8  | 10368.3 |
| 32.5° | 10663.0 | 10696.1 | 10460.3 | 9953.4  | 8960.9  | 7977.8  | 7621.8  | 8150.0  | 8343.3  | 9371.2  | 10179.8 |
| 35°   | 11709.7 | 11752.2 | 11598.9 | 11191.1 | 10137.3 | 8786.4  | 8008.5  | 8260.7  | 8416.3  | 9338.1  | 10047.7 |
| 37.5° | 13065.3 | 13121.9 | 12909.7 | 12438.3 | 11568.3 | 9882.7  | 8652.1  | 8538.9  | 8640.3  | 9432.4  | 10007.6 |
| 40°   | 15208.3 | 15182.4 | 14562.3 | 13859.9 | 13133.7 | 11285.4 | 9571.5  | 9010.5  | 9069.4  | 9736.5  | 10130.3 |
| 42.5° | 17702.6 | 17638.9 | 16571.0 | 15467.6 | 14854.7 | 12982.8 | 10787.9 | 9828.5  | 9816.6  | 10335.4 | 10561.7 |
| 45°   | 19692.3 | 19640.5 | 18678.6 | 17318.3 | 16828.0 | 14916.0 | 12360.4 | 11047.4 | 10960.1 | 11285.4 | 11358.5 |
| 47.5° | 20769.7 | 20772.0 | 20218.0 | 19107.6 | 19095.8 | 17372.5 | 14380.8 | 12810.7 | 12659.8 | 12813.1 | 12735.3 |
| 50°   | 20392.5 | 20442.0 | 20383.0 | 20029.5 | 21165.8 | 20592.9 | 17018.9 | 15269.6 | 14965.5 | 15116.3 | 14816.9 |
| 52.5° | 18567.8 | 18631.4 | 18980.3 | 19522.6 | 22035.7 | 24485.1 | 20894.6 | 18324.9 | 17971.3 | 17917.1 | 17584.7 |
| 55°   | 15333.3 | 15411.1 | 16123.0 | 17596.5 | 21312.0 | 27099.6 | 27010.0 | 22219.5 | 21656.1 | 21144.5 | 21003.1 |
| 57.5° | 10568.7 | 10698.4 | 11844.1 | 14031.9 | 18970.9 | 27889.4 | 34292.4 | 27771.5 | 26625.8 | 24838.8 | 24871.7 |
| 60°   | 5957.5  | 6108.3  | 7459.2  | 9446.5  | 14246.4 | 27031.3 | 39832.6 | 36180.7 | 33762.0 | 29164.8 | 29409.9 |
| 62.5° | 3788.5  | 3951.1  | 4976.8  | 6563.4  | 8548.4  | 22410.5 | 42102.8 | 47871.6 | 44799.8 | 34497.5 | 34738.0 |
| 65°   | 3067.1  | 3137.8  | 3621.1  | 5417.5  | 6207.4  | 13501.5 | 40379.4 | 57502.1 | 56356.3 | 41265.9 | 40143.8 |
| 67.5° | 2994.1  | 3017.6  | 3267.5  | 4547.6  | 5952.8  | 7588.9  | 32208.3 | 59303.2 | 60573.9 | 47586.4 | 42395.2 |
| 70°   | 2958.7  | 3041.2  | 3682.4  | 4340.2  | 5700.5  | 6400.6  | 19355.2 | 54366.6 | 56372.9 | 49239.0 | 39398.7 |
| 72.5° | 1435.7  | 1431.0  | 1853.0  | 3925.3  | 6421.9  | 6638.7  | 9944.0  | 43988.8 | 46002.2 | 42659.2 | 32375.8 |
| 75°   | 1157.6  | 1058.5  | 1011.4  | 1438.1  | 6174.3  | 6855.6  | 6337.0  | 30268.1 | 31725.1 | 28601.4 | 19902.1 |
| 77.5° | 1098.6  | 980.7   | 898.3   | 900.6   | 2609.8  | 7270.5  | 5368.0  | 16752.5 | 17176.9 | 12919.2 | 5452.9  |
| 80°   | 910.0   | 801.6   | 742.7   | 836.9   | 1263.7  | 6924.0  | 5804.2  | 7581.8  | 6957.0  | 3173.2  | 1815.3  |
| 82.5° | 631.8   | 575.2   | 558.7   | 702.6   | 1011.4  | 4934.3  | 6749.5  | 4073.8  | 3416.0  | 1588.9  | 1119.8  |
| 85°   | 403.1   | 344.2   | 381.9   | 511.6   | 787.4   | 2277.4  | 6952.3  | 3175.5  | 2524.8  | 1009.0  | 631.8   |
| 87.5° | 186.3   | 150.9   | 188.6   | 282.9   | 513.9   | 785.0   | 6615.2  | 3566.9  | 2600.3  | 532.8   | 398.4   |
| 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°    | 10311.8 | 10311.8 | 10311.8 | 10311.8 | 10311.8 | 10311.8 | 10311.8 | 10311.8 | 10311.8 | 10311.8 | 10311.8 |
| 2.5°  | 10316.5 | 10271.7 | 10236.4 | 10170.3 | 10097.2 | 10026.6 | 9962.8  | 9882.7  | 9859.1  | 9837.9  | 9870.9  |
| 5°    | 10349.5 | 10304.7 | 10175.0 | 9972.2  | 9748.3  | 9538.5  | 9328.7  | 9149.5  | 9038.7  | 8977.4  | 9012.8  |
| 7.5°  | 10399.0 | 10335.4 | 10066.6 | 9694.1  | 9291.0  | 8923.2  | 8543.6  | 8239.5  | 8015.5  | 7909.5  | 7940.1  |
| 10°   | 10443.8 | 10321.2 | 9882.7  | 9324.0  | 8734.6  | 8187.6  | 7588.9  | 7093.8  | 6726.0  | 6532.7  | 6579.8  |
| 12.5° | 10462.6 | 10266.9 | 9625.8  | 8861.9  | 8053.3  | 7251.7  | 6370.0  | 5629.7  | 5101.7  | 4908.3  | 4868.2  |
| 15°   | 10481.5 | 10205.7 | 9342.8  | 8336.1  | 7230.5  | 6096.5  | 4861.2  | 3974.8  | 3536.2  | 3439.6  | 3418.4  |
| 17.5° | 10486.3 | 10099.6 | 9022.2  | 7765.6  | 6266.3  | 4722.1  | 3324.1  | 2760.6  | 2763.0  | 2918.6  | 2937.5  |
| 20°   | 10436.8 | 9941.6  | 8633.2  | 7056.0  | 5111.1  | 3265.2  | 2282.1  | 2185.4  | 2541.4  | 2930.3  | 2977.5  |
| 22.5° | 10323.5 | 9731.8  | 8192.4  | 6228.5  | 3788.5  | 2150.0  | 1765.8  | 1871.9  | 2331.6  | 2807.8  | 2862.0  |
| 25°   | 10179.8 | 9477.2  | 7671.3  | 5269.0  | 2508.4  | 1537.1  | 1480.5  | 1610.2  | 1921.4  | 2239.6  | 2270.2  |
| 27.5° | 9984.1  | 9175.5  | 7086.7  | 4170.5  | 1629.0  | 1266.0  | 1303.8  | 1390.9  | 1518.3  | 1659.7  | 1673.9  |
| 30°   | 9731.8  | 8814.8  | 6462.0  | 3041.2  | 1230.6  | 1138.6  | 1192.9  | 1240.0  | 1294.2  | 1374.4  | 1381.5  |
| 32.5° | 9441.8  | 8468.2  | 5820.7  | 2100.5  | 1091.5  | 1072.7  | 1115.1  | 1138.6  | 1181.1  | 1230.6  | 1235.3  |
| 35°   | 9199.0  | 8138.1  | 5155.9  | 1485.2  | 1032.6  | 1023.2  | 1051.5  | 1060.9  | 1101.0  | 1155.2  | 1159.9  |
| 37.5° | 9060.0  | 7869.4  | 4469.9  | 1197.6  | 992.5   | 978.4   | 994.8   | 994.8   | 1051.5  | 1131.6  | 1143.4  |
| 40°   | 9069.4  | 7720.8  | 3783.8  | 1082.1  | 959.5   | 940.6   | 943.0   | 943.0   | 1016.1  | 1103.4  | 1110.4  |
| 42.5° | 9326.3  | 7758.6  | 3175.5  | 1037.3  | 933.5   | 912.4   | 900.6   | 907.7   | 968.9   | 1025.5  | 1030.2  |
| 45°   | 9929.9  | 8024.9  | 2605.0  | 1009.0  | 907.7   | 900.6   | 874.6   | 872.3   | 895.9   | 921.8   | 921.8   |
| 47.5° | 10920.0 | 8550.7  | 2218.4  | 990.1   | 886.4   | 884.0   | 853.4   | 822.8   | 820.4   | 829.8   | 829.8   |
| 50°   | 12530.2 | 9456.0  | 1959.1  | 968.9   | 872.3   | 853.4   | 818.1   | 770.9   | 754.4   | 761.5   | 761.5   |
| 52.5° | 14944.3 | 11070.9 | 1860.0  | 940.6   | 841.6   | 811.0   | 770.9   | 723.7   | 709.6   | 712.0   | 712.0   |
| 55°   | 18110.4 | 13551.0 | 1845.9  | 907.7   | 808.6   | 759.1   | 726.1   | 690.8   | 674.2   | 678.9   | 678.9   |
| 57.5° | 21979.1 | 16981.2 | 2098.2  | 855.8   | 763.8   | 707.3   | 688.3   | 664.8   | 653.1   | 660.1   | 657.8   |
| 60°   | 26682.3 | 21469.9 | 3111.9  | 801.6   | 719.0   | 660.1   | 660.1   | 641.3   | 631.8   | 638.9   | 636.5   |
| 62.5° | 32099.9 | 26625.8 | 4375.6  | 761.5   | 671.9   | 622.4   | 631.8   | 622.4   | 613.0   | 617.7   | 615.3   |
| 65°   | 36904.5 | 29985.2 | 4097.3  | 730.8   | 624.7   | 587.1   | 603.5   | 598.8   | 591.8   | 596.5   | 594.1   |
| 67.5° | 37043.6 | 28740.4 | 2300.9  | 697.9   | 579.9   | 551.7   | 575.2   | 572.9   | 568.1   | 572.9   | 570.5   |
| 70°   | 33059.4 | 24268.3 | 1296.6  | 636.5   | 532.8   | 509.2   | 542.3   | 539.9   | 535.1   | 544.6   | 542.3   |
| 72.5° | 26486.7 | 17610.6 | 947.8   | 561.1   | 485.7   | 464.4   | 502.2   | 499.8   | 499.8   | 513.9   | 506.9   |
| 75°   | 15241.4 | 9062.3  | 756.8   | 480.9   | 436.2   | 419.6   | 452.7   | 455.0   | 459.7   | 478.5   | 464.4   |
| 77.5° | 4344.9  | 2824.3  | 617.7   | 407.9   | 374.8   | 367.8   | 400.8   | 405.5   | 407.9   | 429.0   | 410.2   |
| 80°   | 1614.9  | 1301.4  | 509.2   | 341.9   | 306.5   | 308.8   | 339.5   | 346.6   | 348.9   | 370.1   | 346.6   |
| 82.5° | 1030.2  | 858.2   | 412.6   | 264.0   | 240.5   | 238.1   | 275.8   | 285.3   | 285.3   | 287.7   | 273.4   |
| 85°   | 601.2   | 513.9   | 311.2   | 191.0   | 169.7   | 162.6   | 205.1   | 221.6   | 214.5   | 209.8   | 200.4   |
| 87.5° | 403.1   | 353.6   | 191.0   | 106.1   | 92.0    | 87.3    | 120.2   | 132.1   | 127.3   | 120.2   | 113.1   |
| 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)