

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: P192817

Luminaire Tested: **GAN-AF-09-LED-U-SL2-7030-600-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192817  
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-09-LED-U-SL2-7030-600-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 615mA 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: 33219.2 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 290  
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

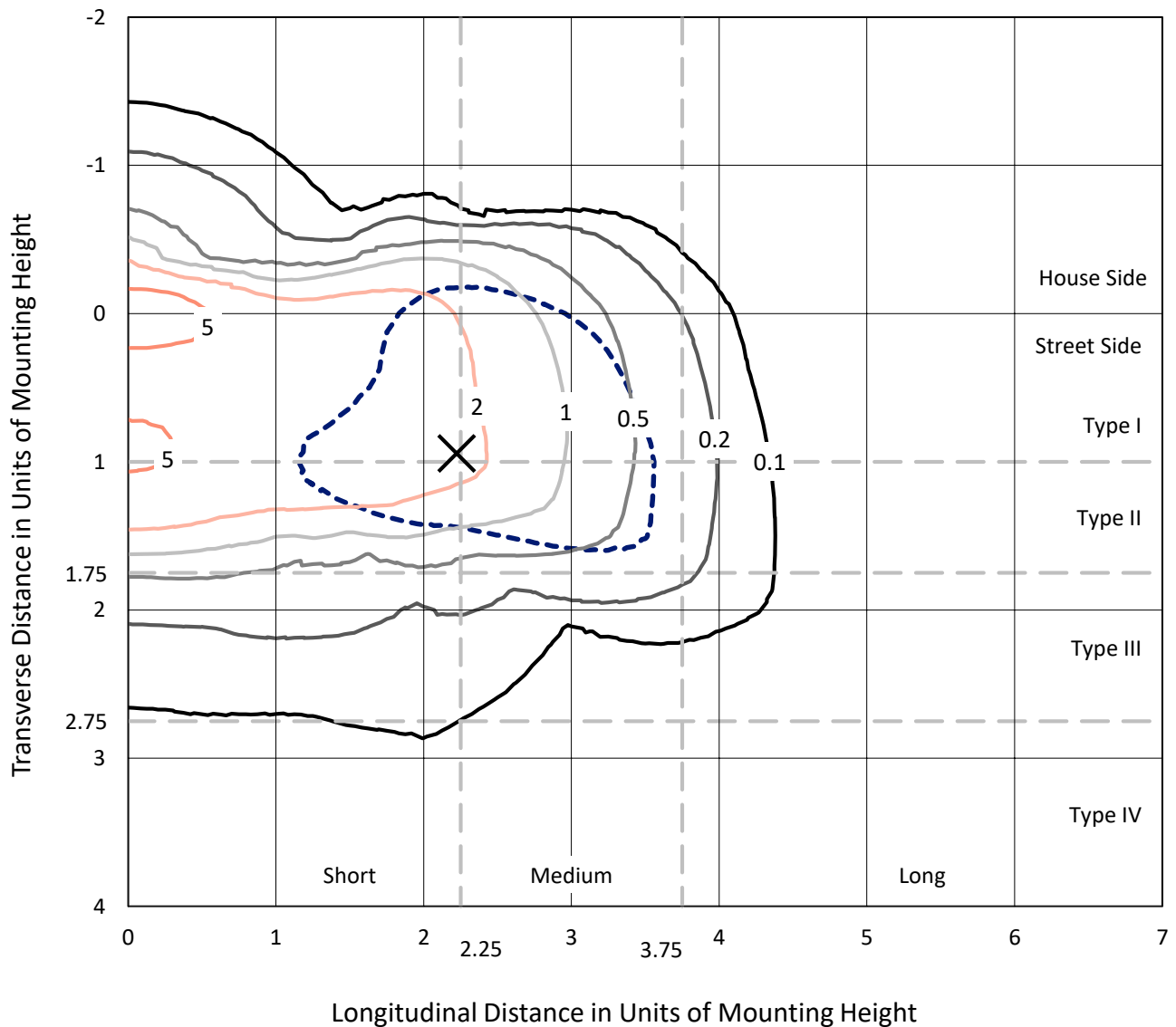


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

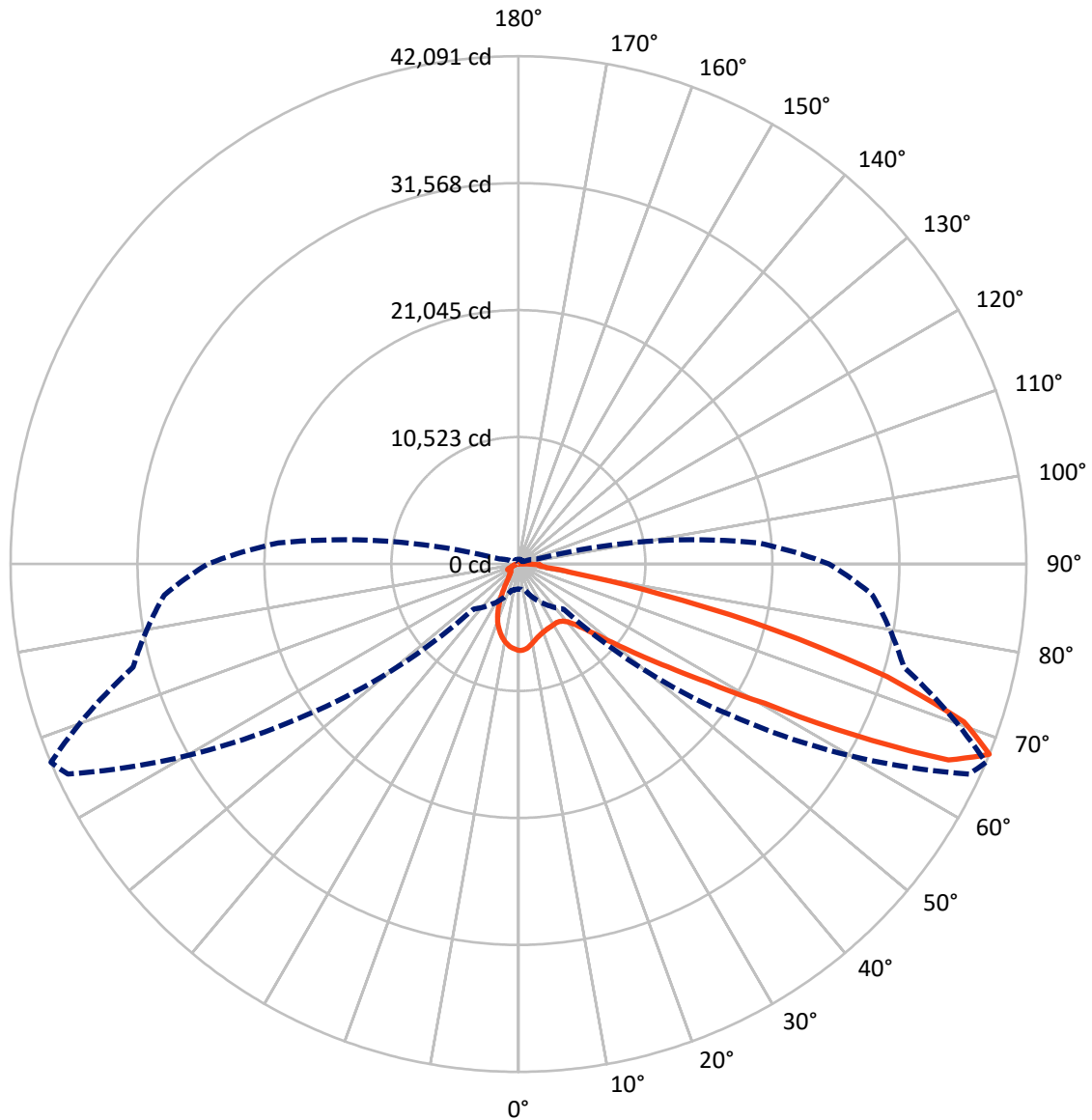


Based on 30 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - Semi-Cutoff

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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    | 5504.0   | 0.0    | 5504.0  |
|                    | % Fixture | 16.6     | 0.0    | 16.6    |
| <b>Street Side</b> | Lumens    | 27715.1  | 0.0    | 27715.1 |
|                    | % Fixture | 83.4     | 0.0    | 83.4    |
| <b>Total</b>       | Lumens    | 33219.2  | 0.0    | 33219.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 611.3   | 1.8       |
| 10°-20°   | 1414.5  | 4.3       |
| 20°-30°   | 1917.3  | 5.8       |
| 30°-40°   | 2725.7  | 8.2       |
| 40°-50°   | 4560.2  | 13.7      |
| 50°-60°   | 7214.2  | 21.7      |
| 60°-70°   | 9190.1  | 27.7      |
| 70°-80°   | 4813.8  | 14.5      |
| 80°-90°   | 772.0   | 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°    | 33219.2 | 100.0     |
| 0°-180°   | 33219.2 | 100.0     |

**Coefficient of Utilization**



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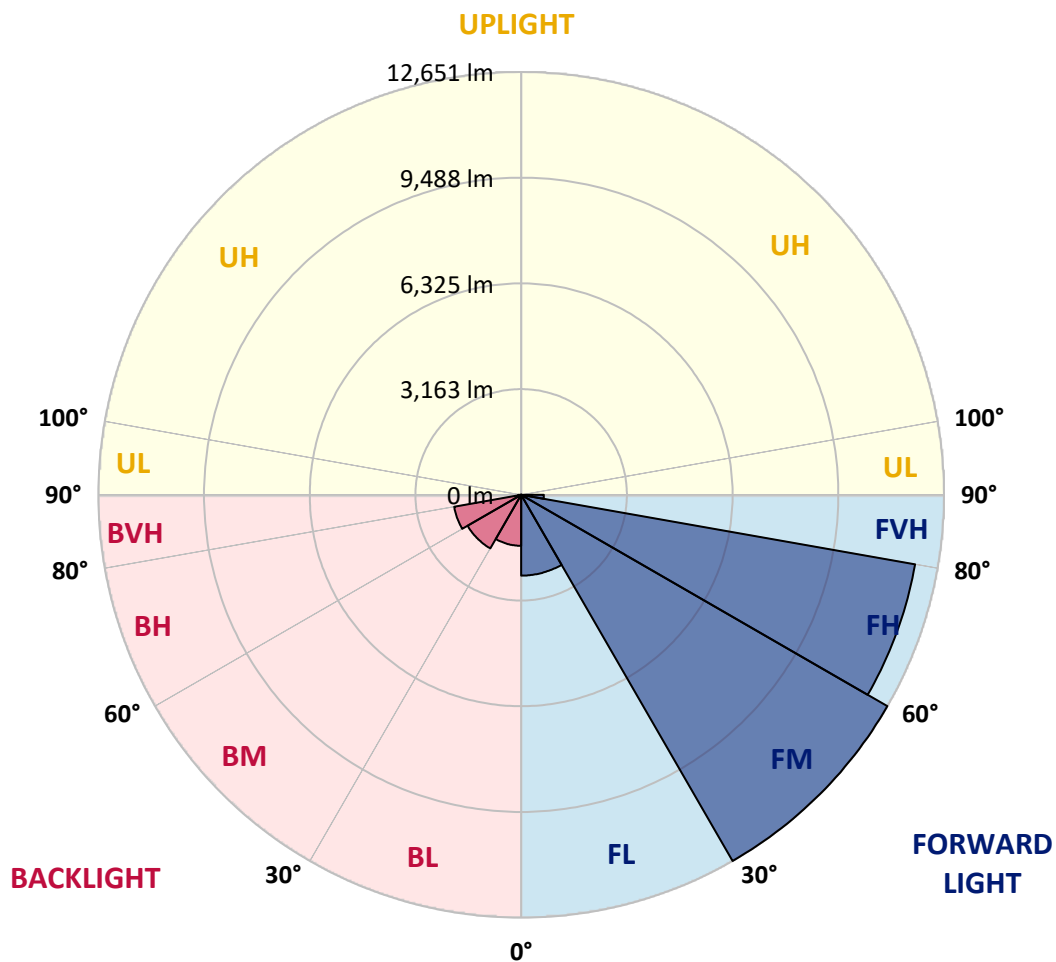
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2417.5  | 7.3       |                         |      |          |
| FM (30°-60°)   | 12650.6 | 38.1      |                         |      |          |
| FH (60°-80°)   | 11968.2 | 36.0      |                         |      | G4/12000 |
| FVH (80°-90°)  | 678.9   | 2.0       |                         |      | G4/750   |
| BL (0°-30°)    | 1525.6  | 4.6       | B3/2500                 |      |          |
| BM (30°-60°)   | 1849.5  | 5.6       | B2/2500                 |      |          |
| BH (60°-80°)   | 2035.8  | 6.1       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 93.2    | 0.3       |                         |      | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7165.3  | 7165.3  | 7165.3  | 7165.3  | 7165.3  | 7165.3  | 7165.3  | 7165.3  | 7165.3  | 7165.3  | 7165.3  |
| 2.5°  | 6870.4  | 6881.9  | 6918.0  | 6940.9  | 7044.1  | 7088.3  | 7119.5  | 7150.6  | 7155.5  | 7170.2  | 7155.5  |
| 5°    | 6149.6  | 6174.2  | 6241.3  | 6316.8  | 6516.6  | 6673.9  | 6839.3  | 7011.2  | 7042.5  | 7153.9  | 7185.0  |
| 7.5°  | 5591.1  | 5584.5  | 5640.2  | 5730.3  | 5935.1  | 6152.9  | 6442.9  | 6785.2  | 6852.4  | 7103.1  | 7224.2  |
| 10°   | 5183.2  | 5178.3  | 5237.3  | 5330.5  | 5525.5  | 5732.0  | 6059.5  | 6528.0  | 6623.1  | 7022.7  | 7261.9  |
| 12.5° | 4881.7  | 4883.4  | 4942.4  | 5045.5  | 5243.8  | 5451.8  | 5784.3  | 6279.0  | 6400.3  | 6929.4  | 7301.2  |
| 15°   | 4681.9  | 4695.0  | 4742.5  | 4852.2  | 5045.5  | 5253.6  | 5579.6  | 6092.3  | 6228.4  | 6855.7  | 7345.5  |
| 17.5° | 4614.7  | 4636.0  | 4652.4  | 4732.7  | 4898.1  | 5106.1  | 5425.6  | 5954.7  | 6098.9  | 6804.8  | 7384.9  |
| 20°   | 4677.0  | 4701.5  | 4670.4  | 4698.2  | 4803.0  | 4986.6  | 5304.3  | 5846.6  | 5994.0  | 6747.6  | 7389.7  |
| 22.5° | 4944.0  | 4966.9  | 4875.1  | 4794.9  | 4788.3  | 4899.7  | 5204.4  | 5761.3  | 5913.7  | 6705.0  | 7391.4  |
| 25°   | 5414.2  | 5428.9  | 5274.8  | 5088.1  | 4906.3  | 4868.6  | 5134.0  | 5702.5  | 5864.6  | 6667.3  | 7360.2  |
| 27.5° | 5990.6  | 6002.1  | 5825.2  | 5550.1  | 5184.8  | 4942.4  | 5109.4  | 5668.1  | 5836.7  | 6634.6  | 7307.8  |
| 30°   | 6691.9  | 6745.8  | 6508.3  | 6161.1  | 5628.7  | 5160.2  | 5158.5  | 5650.1  | 5805.6  | 6578.8  | 7204.7  |
| 32.5° | 7409.4  | 7432.4  | 7268.5  | 6916.3  | 6226.6  | 5543.5  | 5296.2  | 5663.1  | 5797.4  | 6511.7  | 7073.6  |
| 35°   | 8136.7  | 8166.2  | 8059.7  | 7776.3  | 7044.1  | 6105.4  | 5564.8  | 5740.2  | 5848.2  | 6488.7  | 6981.7  |
| 37.5° | 9078.7  | 9118.0  | 8970.5  | 8643.0  | 8038.4  | 6867.2  | 6012.0  | 5933.5  | 6003.8  | 6554.3  | 6954.1  |
| 40°   | 10567.8 | 10549.7 | 10118.9 | 9630.7  | 9126.2  | 7841.9  | 6650.9  | 6261.0  | 6302.0  | 6765.6  | 7039.1  |
| 42.5° | 12301.0 | 12256.7 | 11514.7 | 10748.0 | 10322.0 | 9021.3  | 7496.2  | 6829.5  | 6821.3  | 7181.7  | 7339.0  |
| 45°   | 13683.5 | 13647.5 | 12979.1 | 12034.0 | 11693.2 | 10364.7 | 8588.9  | 7676.4  | 7615.8  | 7841.9  | 7892.7  |
| 47.5° | 14432.2 | 14433.8 | 14048.9 | 13277.3 | 13269.1 | 12071.6 | 9992.8  | 8901.8  | 8796.9  | 8903.4  | 8849.4  |
| 50°   | 14170.1 | 14204.5 | 14163.5 | 13917.8 | 14707.4 | 14309.2 | 11825.9 | 10610.3 | 10399.0 | 10503.8 | 10295.8 |
| 52.5° | 12902.1 | 12946.3 | 13188.8 | 13565.5 | 15311.8 | 17013.9 | 14519.0 | 12733.4 | 12487.7 | 12450.0 | 12219.0 |
| 55°   | 10654.5 | 10708.6 | 11203.3 | 12227.2 | 14808.9 | 18830.7 | 18768.3 | 15439.7 | 15048.1 | 14692.6 | 14594.3 |
| 57.5° | 7343.9  | 7434.0  | 8230.1  | 9750.3  | 13182.2 | 19379.5 | 23828.7 | 19297.5 | 18501.3 | 17259.5 | 17282.5 |
| 60°   | 4139.7  | 4244.5  | 5183.2  | 6564.1  | 9899.3  | 18783.1 | 27678.3 | 25140.8 | 23460.0 | 20265.6 | 20436.0 |
| 62.5° | 2632.5  | 2745.5  | 3458.2  | 4560.6  | 5940.0  | 15572.2 | 29255.8 | 33264.4 | 31129.9 | 23971.2 | 24138.2 |
| 65°   | 2131.2  | 2180.4  | 2516.2  | 3764.5  | 4313.2  | 9381.8  | 28058.4 | 39956.3 | 39160.1 | 28674.3 | 27894.6 |
| 67.5° | 2080.4  | 2096.8  | 2270.5  | 3160.0  | 4136.3  | 5273.2  | 22380.4 | 41207.7 | 42090.8 | 33066.2 | 29458.9 |
| 70°   | 2055.9  | 2113.2  | 2558.9  | 3015.9  | 3961.0  | 4447.6  | 13449.3 | 37777.5 | 39171.6 | 34214.5 | 27376.9 |
| 72.5° | 997.6   | 994.4   | 1287.6  | 2727.5  | 4462.3  | 4613.0  | 6909.8  | 30566.4 | 31965.3 | 29642.5 | 22496.8 |
| 75°   | 804.3   | 735.6   | 702.7   | 999.2   | 4290.3  | 4763.8  | 4403.3  | 21032.3 | 22044.7 | 19874.1 | 13829.3 |
| 77.5° | 763.4   | 681.4   | 624.1   | 625.7   | 1813.4  | 5052.0  | 3730.1  | 11640.7 | 11935.6 | 8977.1  | 3789.0  |
| 80°   | 632.3   | 557.0   | 516.0   | 581.6   | 878.0   | 4811.2  | 4033.1  | 5268.3  | 4834.1  | 2205.0  | 1261.4  |
| 82.5° | 439.0   | 399.7   | 388.2   | 488.2   | 702.7   | 3428.7  | 4690.1  | 2830.7  | 2373.6  | 1104.1  | 778.2   |
| 85°   | 280.1   | 239.2   | 265.4   | 355.5   | 547.2   | 1582.5  | 4830.9  | 2206.6  | 1754.4  | 701.1   | 439.0   |
| 87.5° | 129.4   | 104.9   | 131.0   | 196.5   | 357.2   | 545.5   | 4596.6  | 2478.5  | 1806.9  | 370.2   | 276.9   |
| 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°    | 7165.3  | 7165.3  | 7165.3 | 7165.3 | 7165.3 | 7165.3 | 7165.3 | 7165.3 | 7165.3 | 7165.3 | 7165.3 |
| 2.5°  | 7168.6  | 7137.5  | 7112.9 | 7067.0 | 7016.2 | 6967.0 | 6922.8 | 6867.2 | 6850.8 | 6836.1 | 6859.0 |
| 5°    | 7191.6  | 7160.5  | 7070.2 | 6929.4 | 6773.7 | 6628.0 | 6482.2 | 6357.7 | 6280.7 | 6238.0 | 6262.6 |
| 7.5°  | 7225.9  | 7181.7  | 6994.9 | 6736.1 | 6456.0 | 6200.5 | 5936.7 | 5725.4 | 5569.7 | 5496.1 | 5517.3 |
| 10°   | 7257.0  | 7171.9  | 6867.2 | 6478.8 | 6069.4 | 5689.3 | 5273.2 | 4929.2 | 4673.7 | 4539.2 | 4572.1 |
| 12.5° | 7270.1  | 7134.2  | 6688.7 | 6157.9 | 5595.9 | 5038.9 | 4426.3 | 3911.9 | 3544.9 | 3410.6 | 3382.7 |
| 15°   | 7283.2  | 7091.6  | 6491.9 | 5792.5 | 5024.2 | 4236.3 | 3377.9 | 2762.0 | 2457.2 | 2390.0 | 2375.3 |
| 17.5° | 7286.5  | 7017.8  | 6269.2 | 5396.1 | 4354.2 | 3281.3 | 2309.8 | 1918.3 | 1919.9 | 2028.1 | 2041.2 |
| 20°   | 7252.1  | 6908.1  | 5998.9 | 4903.0 | 3551.5 | 2268.9 | 1585.8 | 1518.6 | 1765.9 | 2036.3 | 2069.1 |
| 22.5° | 7173.5  | 6762.3  | 5692.6 | 4328.0 | 2632.5 | 1494.0 | 1227.0 | 1300.7 | 1620.1 | 1951.1 | 1988.7 |
| 25°   | 7073.6  | 6585.4  | 5330.5 | 3661.3 | 1743.0 | 1068.1 | 1028.7 | 1118.9 | 1335.1 | 1556.3 | 1577.6 |
| 27.5° | 6937.6  | 6375.8  | 4924.4 | 2897.9 | 1131.9 | 879.6  | 905.9  | 966.5  | 1055.0 | 1153.2 | 1163.1 |
| 30°   | 6762.3  | 6125.1  | 4490.2 | 2113.2 | 855.2  | 791.2  | 829.0  | 861.6  | 899.3  | 955.0  | 960.0  |
| 32.5° | 6560.8  | 5884.2  | 4044.6 | 1459.6 | 758.5  | 745.3  | 774.8  | 791.2  | 820.7  | 855.2  | 858.3  |
| 35°   | 6392.1  | 5654.9  | 3582.6 | 1032.1 | 717.5  | 710.9  | 730.6  | 737.2  | 765.1  | 802.7  | 806.0  |
| 37.5° | 6295.4  | 5468.2  | 3105.9 | 832.2  | 689.7  | 679.8  | 691.3  | 691.3  | 730.6  | 786.3  | 794.6  |
| 40°   | 6302.0  | 5364.9  | 2629.3 | 751.9  | 666.7  | 653.6  | 655.2  | 655.2  | 706.1  | 766.7  | 771.6  |
| 42.5° | 6480.5  | 5391.2  | 2206.6 | 720.8  | 648.7  | 633.9  | 625.7  | 630.7  | 673.2  | 712.6  | 715.8  |
| 45°   | 6899.9  | 5576.3  | 1810.2 | 701.1  | 630.7  | 625.7  | 607.8  | 606.2  | 622.4  | 640.5  | 640.5  |
| 47.5° | 7587.9  | 5941.6  | 1541.5 | 688.0  | 615.9  | 614.2  | 593.1  | 571.8  | 570.2  | 576.7  | 576.7  |
| 50°   | 8706.8  | 6570.7  | 1361.3 | 673.2  | 606.2  | 593.1  | 568.4  | 535.7  | 524.2  | 529.2  | 529.2  |
| 52.5° | 10384.3 | 7692.8  | 1292.5 | 653.6  | 584.9  | 563.6  | 535.7  | 502.9  | 493.1  | 494.7  | 494.7  |
| 55°   | 12584.4 | 9416.1  | 1282.7 | 630.7  | 561.9  | 527.5  | 504.6  | 479.9  | 468.5  | 471.8  | 471.8  |
| 57.5° | 15272.6 | 11799.7 | 1457.9 | 594.7  | 530.8  | 491.4  | 478.3  | 461.9  | 453.8  | 458.7  | 457.0  |
| 60°   | 18540.6 | 14918.7 | 2162.3 | 557.0  | 499.7  | 458.7  | 458.7  | 445.6  | 439.0  | 443.9  | 442.3  |
| 62.5° | 22305.2 | 18501.3 | 3040.4 | 529.2  | 466.9  | 432.4  | 439.0  | 432.4  | 425.9  | 429.2  | 427.5  |
| 65°   | 25643.7 | 20835.7 | 2847.1 | 507.8  | 434.1  | 407.9  | 419.3  | 416.1  | 411.2  | 414.4  | 412.8  |
| 67.5° | 25740.4 | 19970.7 | 1598.8 | 484.9  | 402.9  | 383.3  | 399.7  | 398.0  | 394.8  | 398.0  | 396.4  |
| 70°   | 22971.9 | 16863.2 | 901.0  | 442.3  | 370.2  | 353.9  | 376.7  | 375.1  | 371.8  | 378.4  | 376.7  |
| 72.5° | 18404.7 | 12237.0 | 658.5  | 389.8  | 337.5  | 322.8  | 349.0  | 347.3  | 347.3  | 357.2  | 352.3  |
| 75°   | 10590.7 | 6297.0  | 525.9  | 334.3  | 303.0  | 291.6  | 314.5  | 316.2  | 319.5  | 332.5  | 322.8  |
| 77.5° | 3019.2  | 1962.6  | 429.2  | 283.4  | 260.5  | 255.5  | 278.5  | 281.8  | 283.4  | 298.2  | 285.0  |
| 80°   | 1122.1  | 904.2   | 353.9  | 237.5  | 212.9  | 214.5  | 235.9  | 240.8  | 242.4  | 257.2  | 240.8  |
| 82.5° | 715.8   | 596.3   | 286.7  | 183.4  | 167.0  | 165.4  | 191.6  | 198.2  | 198.2  | 199.8  | 190.0  |
| 85°   | 417.7   | 357.2   | 216.3  | 132.6  | 118.0  | 113.1  | 142.5  | 153.9  | 149.0  | 145.8  | 139.2  |
| 87.5° | 280.1   | 245.8   | 132.6  | 73.8   | 63.9   | 60.6   | 83.6   | 91.8   | 88.5   | 83.6   | 78.6   |
| 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)