

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: P191133

Luminaire Tested: **GAN-AF-05-LED-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191133  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
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-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25999.3 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4

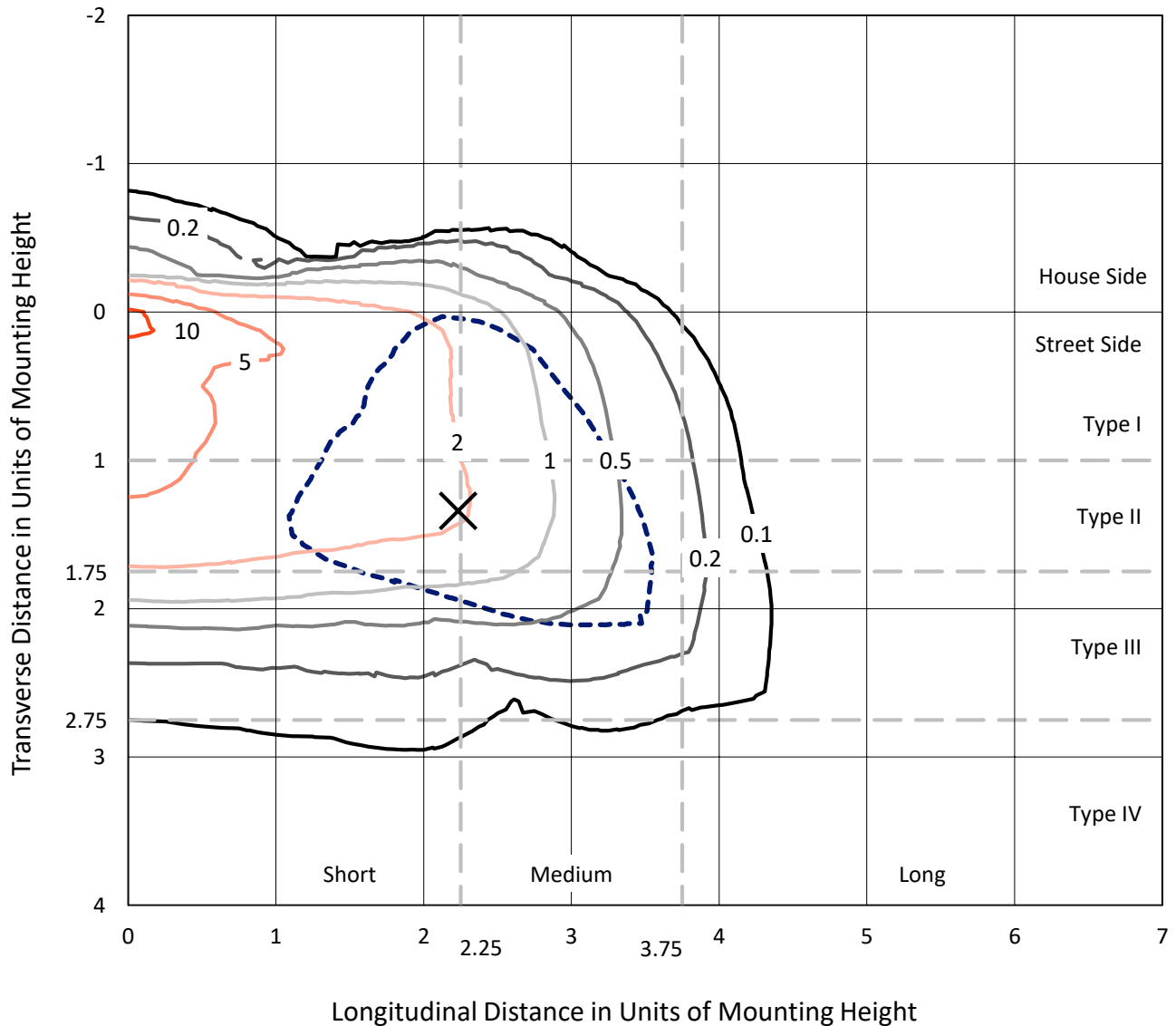
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

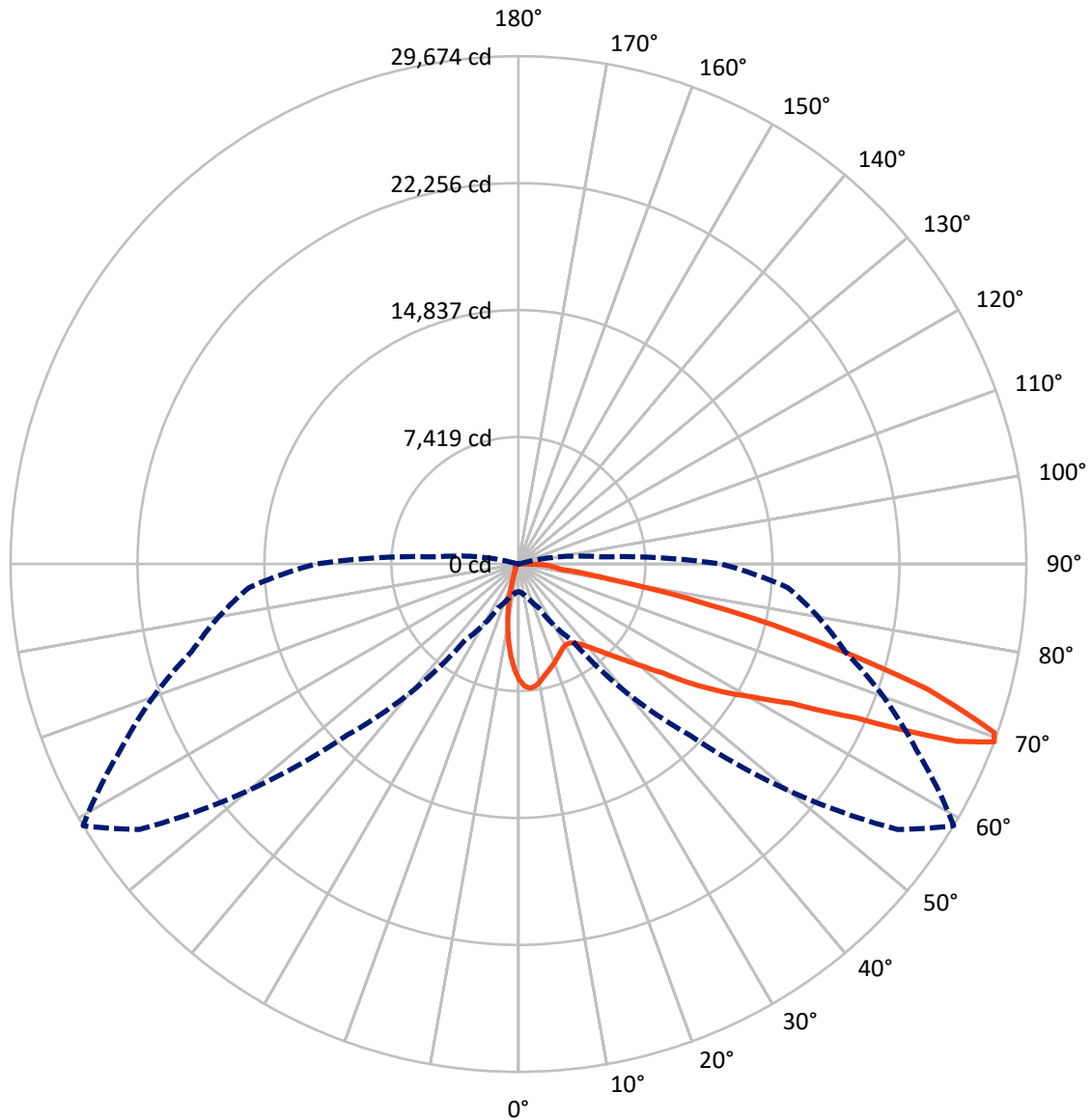
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2117.3   | 0.0    | 2117.3  |
|                    | % Fixture | 8.1      | 0.0    | 8.1     |
| <b>Street Side</b> | Lumens    | 23882.0  | 0.0    | 23882.0 |
|                    | % Fixture | 91.9     | 0.0    | 91.9    |
| <b>Total</b>       | Lumens    | 25999.3  | 0.0    | 25999.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 549.3   | 2.1       |
| 10°-20°   | 1135.0  | 4.4       |
| 20°-30°   | 1527.3  | 5.9       |
| 30°-40°   | 2217.5  | 8.5       |
| 40°-50°   | 3692.4  | 14.2      |
| 50°-60°   | 5760.0  | 22.2      |
| 60°-70°   | 7127.6  | 27.4      |
| 70°-80°   | 3612.2  | 13.9      |
| 80°-90°   | 378.0   | 1.5       |
| 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°    | 25999.3 | 100.0     |
| 0°-180°   | 25999.3 | 100.0     |

**Coefficient of Utilization**



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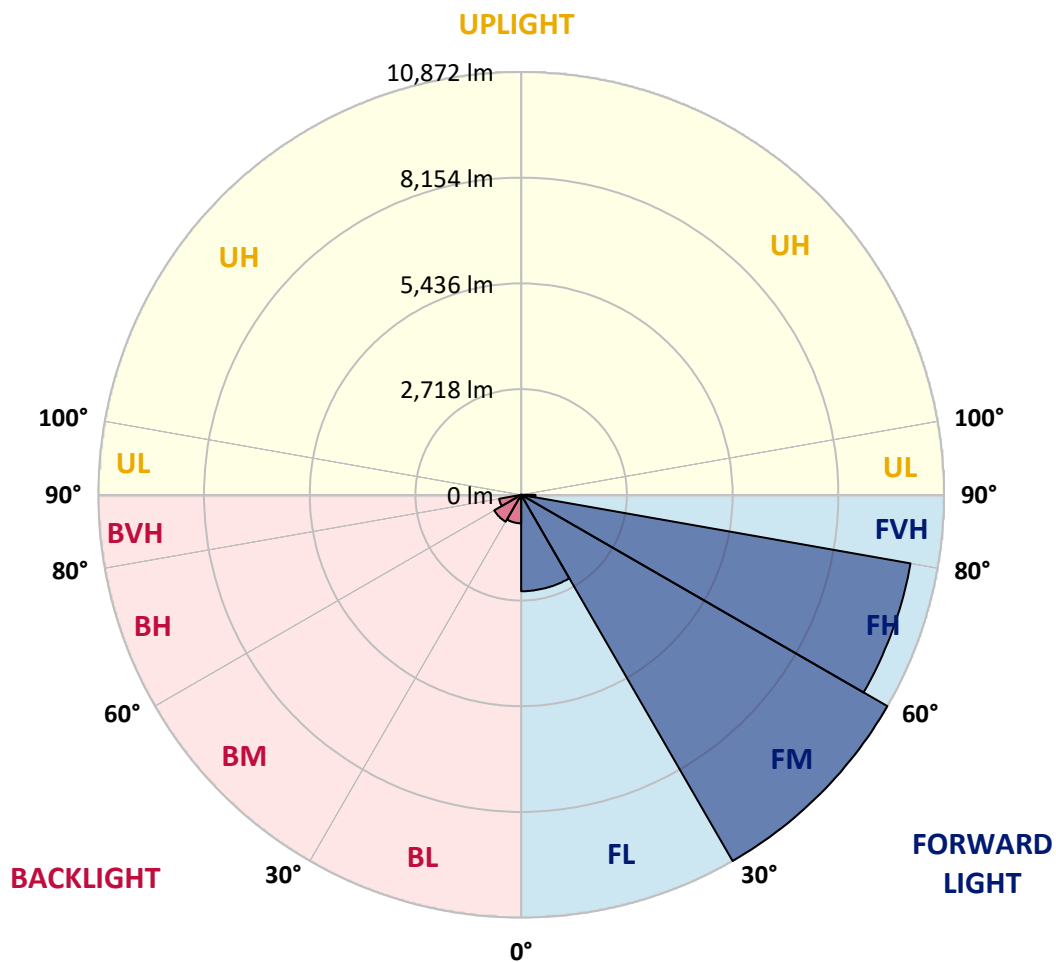
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2478.7  | 9.5       |                         |      |          |
| FM   | (30°-60°)   | 10872.2 | 41.8      |                         |      |          |
| FH   | (60°-80°)   | 10164.8 | 39.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 366.3   | 1.4       |                         |      | G3/500   |
| BL   | (0°-30°)    | 732.9   | 2.8       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 797.8   | 3.1       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 575.0   | 2.2       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 11.6    | 0.0       |                         |      | G1/100   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6767.2  | 6767.2  | 6767.2  | 6767.2  | 6767.2  | 6767.2  | 6767.2  | 6767.2  | 6767.2  | 6767.2  | 6767.2  |
| 2.5°  | 7417.1  | 7414.1  | 7381.8  | 7367.1  | 7340.6  | 7284.7  | 7198.0  | 7152.5  | 7078.9  | 6951.1  | 6779.0  |
| 5°    | 7349.5  | 7384.8  | 7403.8  | 7405.3  | 7424.5  | 7403.8  | 7326.0  | 7287.7  | 7186.2  | 6980.4  | 6671.7  |
| 7.5°  | 6890.8  | 6904.0  | 6958.4  | 7005.5  | 7096.6  | 7183.4  | 7211.3  | 7195.1  | 7134.8  | 6914.3  | 6504.1  |
| 10°   | 6399.7  | 6413.0  | 6477.6  | 6539.4  | 6662.9  | 6796.7  | 6937.8  | 6967.2  | 6992.2  | 6820.2  | 6342.4  |
| 12.5° | 5976.3  | 5989.6  | 6055.7  | 6136.6  | 6280.6  | 6445.3  | 6664.3  | 6712.9  | 6823.1  | 6730.5  | 6213.0  |
| 15°   | 5611.7  | 5617.5  | 5682.3  | 5782.2  | 5954.3  | 6165.9  | 6414.4  | 6492.4  | 6661.5  | 6667.3  | 6099.8  |
| 17.5° | 5301.4  | 5316.2  | 5355.9  | 5451.4  | 5639.6  | 5901.3  | 6191.0  | 6302.7  | 6501.2  | 6614.4  | 5989.6  |
| 20°   | 5111.8  | 5126.5  | 5125.1  | 5178.0  | 5347.1  | 5626.4  | 5967.5  | 6101.3  | 6342.4  | 6560.0  | 5891.1  |
| 22.5° | 5075.1  | 5075.1  | 5036.8  | 5029.5  | 5129.5  | 5363.2  | 5735.2  | 5898.3  | 6199.8  | 6536.5  | 5821.9  |
| 25°   | 5205.9  | 5200.1  | 5104.5  | 5026.6  | 5031.0  | 5170.6  | 5510.2  | 5704.3  | 6079.2  | 6552.6  | 5785.2  |
| 27.5° | 5482.3  | 5474.9  | 5354.4  | 5205.9  | 5086.8  | 5085.4  | 5339.7  | 5548.5  | 5983.6  | 6629.0  | 5799.9  |
| 30°   | 5864.6  | 5861.6  | 5730.8  | 5544.1  | 5327.9  | 5129.5  | 5280.9  | 5470.5  | 5921.9  | 6767.2  | 5833.7  |
| 32.5° | 6282.1  | 6277.6  | 6179.2  | 5982.2  | 5708.7  | 5327.9  | 5342.7  | 5501.4  | 5939.6  | 6951.1  | 5916.0  |
| 35°   | 6724.7  | 6717.3  | 6674.7  | 6502.6  | 6201.2  | 5694.1  | 5545.5  | 5669.0  | 6051.3  | 7225.9  | 6077.8  |
| 37.5° | 7203.9  | 7211.3  | 7242.1  | 7077.5  | 6761.4  | 6207.2  | 5885.1  | 5968.9  | 6276.2  | 7599.4  | 6340.9  |
| 40°   | 7911.1  | 7909.6  | 7919.9  | 7703.7  | 7399.4  | 6834.8  | 6360.0  | 6386.5  | 6652.6  | 8094.8  | 6740.8  |
| 42.5° | 9194.6  | 9104.9  | 8832.9  | 8391.8  | 8086.0  | 7552.3  | 6958.4  | 6930.5  | 7112.8  | 8707.9  | 7300.9  |
| 45°   | 10919.1 | 10728.0 | 10022.3 | 9176.9  | 8785.8  | 8361.0  | 7694.9  | 7605.2  | 7721.4  | 9444.5  | 7991.9  |
| 47.5° | 12402.5 | 12204.0 | 11205.7 | 9994.3  | 9528.3  | 9128.4  | 8557.9  | 8396.3  | 8434.4  | 10269.2 | 8868.2  |
| 50°   | 12906.8 | 12809.7 | 11937.9 | 10705.9 | 10247.2 | 10094.3 | 9559.2  | 9362.1  | 9307.7  | 11223.4 | 9884.1  |
| 52.5° | 12731.9 | 12724.5 | 12143.8 | 11167.6 | 10905.9 | 11094.0 | 10819.1 | 10591.2 | 10391.2 | 12229.0 | 10917.6 |
| 55°   | 12451.1 | 12487.8 | 12227.5 | 11571.8 | 11563.0 | 12007.0 | 12542.2 | 12352.5 | 11773.2 | 13321.4 | 11808.5 |
| 57.5° | 11676.2 | 11833.5 | 12180.5 | 12336.3 | 12698.0 | 13152.3 | 13977.1 | 14088.8 | 13403.7 | 14157.8 | 12548.0 |
| 60°   | 9473.9  | 9819.4  | 10954.4 | 12446.5 | 14160.8 | 15292.9 | 15708.9 | 15804.5 | 14741.5 | 14853.2 | 13546.3 |
| 62.5° | 6724.7  | 7077.5  | 8516.8  | 11041.1 | 14182.9 | 18105.3 | 18289.1 | 17914.2 | 16214.7 | 15883.9 | 15267.8 |
| 65°   | 3569.6  | 3841.6  | 5017.8  | 7969.9  | 12296.6 | 18758.1 | 22801.1 | 21683.8 | 18814.0 | 17911.3 | 17492.3 |
| 67.5° | 1826.0  | 1908.3  | 2375.8  | 3900.4  | 8453.6  | 16661.6 | 26845.6 | 27632.2 | 23293.6 | 19922.5 | 17384.9 |
| 69°   | 1615.8  | 1664.2  | 1974.5  | 2819.9  | 5413.3  | 14112.3 | 27042.6 | 29674.3 | 25638.5 | 19754.9 | 15798.7 |
| 70°   | 1564.3  | 1607.0  | 1889.2  | 2552.3  | 4231.2  | 11835.0 | 26288.4 | 29494.8 | 26238.4 | 19116.8 | 14613.7 |
| 72.5° | 1327.6  | 1364.3  | 1681.9  | 2255.3  | 3438.8  | 5874.9  | 21354.4 | 24993.1 | 23545.1 | 15925.1 | 10578.0 |
| 75°   | 888.0   | 1008.5  | 1614.2  | 2114.1  | 3199.1  | 3337.3  | 14078.5 | 18061.2 | 16777.7 | 10741.2 | 5510.2  |
| 77.5° | 213.2   | 229.3   | 455.7   | 1681.9  | 2925.6  | 2937.4  | 7240.7  | 11227.8 | 9157.8  | 3828.4  | 1302.6  |
| 80°   | 114.7   | 110.3   | 127.9   | 333.7   | 2724.2  | 2756.6  | 3259.4  | 5450.0  | 3269.7  | 635.2   | 429.3   |
| 82.5° | 80.8    | 76.4    | 82.3    | 139.6   | 857.1   | 2511.0  | 2358.2  | 2466.9  | 1355.5  | 244.1   | 192.6   |
| 85°   | 29.4    | 27.9    | 45.6    | 126.4   | 269.0   | 1443.7  | 2422.9  | 2034.8  | 1098.2  | 111.7   | 141.2   |
| 87.5° | 10.3    | 8.8     | 17.6    | 69.0    | 82.3    | 614.5   | 1495.1  | 1537.8  | 432.2   | 67.6    | 66.2    |
| 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°    | 6767.2  | 6767.2 | 6767.2 | 6767.2 | 6767.2 | 6767.2 | 6767.2 | 6767.2 | 6767.2 | 6767.2 | 6767.2 |
| 2.5°  | 6707.0  | 6615.8 | 6448.3 | 6276.2 | 6117.5 | 5926.4 | 5830.7 | 5736.7 | 5697.0 | 5682.3 | 5613.1 |
| 5°    | 6512.9  | 6358.6 | 6002.8 | 5645.5 | 5316.2 | 4966.3 | 4735.4 | 4550.2 | 4441.4 | 4388.5 | 4304.7 |
| 7.5°  | 6264.4  | 6011.6 | 5472.1 | 4920.7 | 4407.6 | 3901.8 | 3526.9 | 3238.9 | 3040.3 | 2944.8 | 2858.0 |
| 10°   | 6023.3  | 5686.7 | 4919.3 | 4168.0 | 3471.1 | 2800.7 | 2283.2 | 1908.3 | 1668.6 | 1558.4 | 1487.8 |
| 12.5° | 5807.2  | 5370.6 | 4385.6 | 3434.4 | 2559.6 | 1774.5 | 1248.2 | 949.7  | 801.3  | 749.8  | 724.8  |
| 15°   | 5614.7  | 5079.5 | 3881.3 | 2737.5 | 1733.4 | 1014.5 | 682.2  | 580.7  | 557.2  | 557.2  | 554.2  |
| 17.5° | 5432.4  | 4794.3 | 3394.7 | 2083.2 | 1087.9 | 620.4  | 518.9  | 505.7  | 505.7  | 511.6  | 511.6  |
| 20°   | 5257.4  | 4522.3 | 2924.2 | 1495.1 | 685.1  | 492.6  | 469.0  | 466.1  | 469.0  | 476.4  | 476.4  |
| 22.5° | 5107.4  | 4275.3 | 2484.6 | 1026.2 | 508.7  | 444.0  | 432.2  | 427.8  | 429.3  | 433.7  | 436.6  |
| 25°   | 4995.7  | 4066.5 | 2070.0 | 695.4  | 438.1  | 404.3  | 391.1  | 383.7  | 377.9  | 377.9  | 380.7  |
| 27.5° | 4925.1  | 3890.1 | 1668.6 | 505.7  | 394.0  | 367.5  | 347.0  | 335.2  | 321.9  | 314.7  | 317.5  |
| 30°   | 4873.6  | 3722.5 | 1292.3 | 413.2  | 352.8  | 326.4  | 299.9  | 280.8  | 261.7  | 252.9  | 255.8  |
| 32.5° | 4854.5  | 3587.3 | 965.9  | 364.6  | 316.1  | 286.7  | 254.3  | 229.3  | 208.8  | 201.4  | 202.9  |
| 35°   | 4906.0  | 3480.0 | 707.2  | 329.3  | 286.7  | 249.9  | 213.2  | 185.3  | 169.1  | 164.7  | 166.1  |
| 37.5° | 5041.3  | 3422.6 | 529.3  | 299.9  | 260.2  | 219.0  | 177.9  | 151.4  | 141.2  | 141.2  | 142.6  |
| 40°   | 5297.0  | 3421.2 | 424.9  | 279.4  | 236.7  | 189.7  | 147.0  | 127.9  | 122.0  | 125.0  | 126.4  |
| 42.5° | 5670.5  | 3499.0 | 370.5  | 260.2  | 216.1  | 161.7  | 122.0  | 108.8  | 107.3  | 110.3  | 111.7  |
| 45°   | 6180.7  | 3641.6 | 341.1  | 244.1  | 194.1  | 135.2  | 102.9  | 94.1   | 94.1   | 98.5   | 99.9   |
| 47.5° | 6805.5  | 3850.4 | 316.1  | 227.9  | 172.1  | 113.2  | 88.2   | 82.3   | 83.8   | 88.2   | 89.7   |
| 50°   | 7558.2  | 4113.6 | 291.1  | 210.2  | 155.8  | 94.1   | 76.4   | 72.0   | 73.6   | 79.4   | 80.8   |
| 52.5° | 8415.3  | 4467.9 | 270.5  | 194.1  | 135.2  | 77.9   | 64.7   | 61.8   | 64.7   | 70.6   | 72.0   |
| 55°   | 9150.4  | 4785.5 | 245.5  | 180.9  | 108.8  | 64.7   | 52.9   | 52.9   | 55.9   | 63.2   | 64.7   |
| 57.5° | 9857.6  | 5117.7 | 223.5  | 155.8  | 85.3   | 51.5   | 44.1   | 45.6   | 50.0   | 57.4   | 58.8   |
| 60°   | 10895.6 | 5680.8 | 197.0  | 130.8  | 64.7   | 41.1   | 36.7   | 38.3   | 44.1   | 51.5   | 52.9   |
| 62.5° | 12658.3 | 6537.9 | 170.5  | 108.8  | 50.0   | 32.3   | 29.4   | 32.3   | 39.7   | 48.5   | 50.0   |
| 65°   | 14249.0 | 6886.3 | 139.6  | 91.1   | 38.3   | 25.0   | 25.0   | 29.4   | 38.3   | 47.1   | 48.5   |
| 67.5° | 13362.5 | 5797.0 | 108.8  | 72.0   | 29.4   | 19.1   | 20.6   | 27.9   | 36.7   | 47.1   | 48.5   |
| 69°   | 11817.3 | 4739.8 | 92.6   | 57.4   | 25.0   | 17.6   | 19.1   | 27.9   | 36.7   | 45.6   | 47.1   |
| 70°   | 10613.2 | 4001.9 | 82.3   | 48.5   | 22.1   | 17.6   | 19.1   | 26.5   | 36.7   | 45.6   | 47.1   |
| 72.5° | 7108.4  | 2161.2 | 66.2   | 35.3   | 20.6   | 16.2   | 16.2   | 26.5   | 35.3   | 44.1   | 45.6   |
| 75°   | 3055.0  | 596.9  | 52.9   | 25.0   | 17.6   | 14.7   | 14.7   | 25.0   | 33.9   | 42.7   | 45.6   |
| 77.5° | 558.6   | 151.4  | 42.7   | 22.1   | 17.6   | 14.7   | 13.2   | 23.5   | 32.3   | 41.1   | 42.7   |
| 80°   | 222.0   | 75.0   | 33.9   | 19.1   | 16.2   | 13.2   | 11.8   | 22.1   | 30.9   | 39.7   | 41.1   |
| 82.5° | 133.8   | 42.7   | 27.9   | 17.6   | 16.2   | 11.8   | 10.3   | 19.1   | 29.4   | 38.3   | 39.7   |
| 85°   | 108.8   | 29.4   | 22.1   | 17.6   | 14.7   | 11.8   | 8.8    | 17.6   | 26.5   | 36.7   | 38.3   |
| 87.5° | 52.9    | 20.6   | 20.6   | 16.2   | 14.7   | 11.8   | 8.8    | 16.2   | 25.0   | 35.3   | 36.7   |
| 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)