

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: P457666

Luminaire Tested: **GLAN-SA9A-730-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457666  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9A-730-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29561 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 274  
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: 24 FT

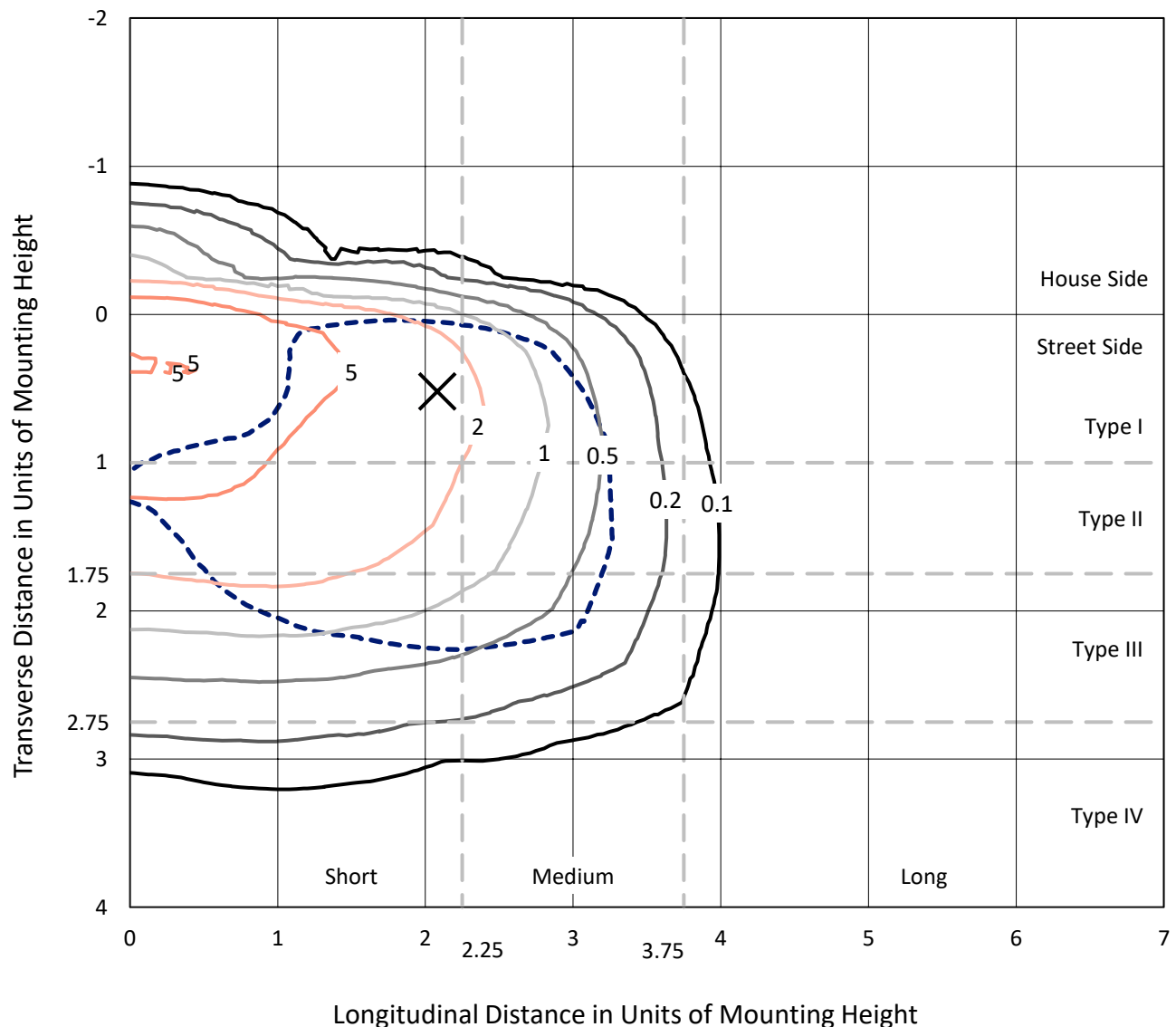


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

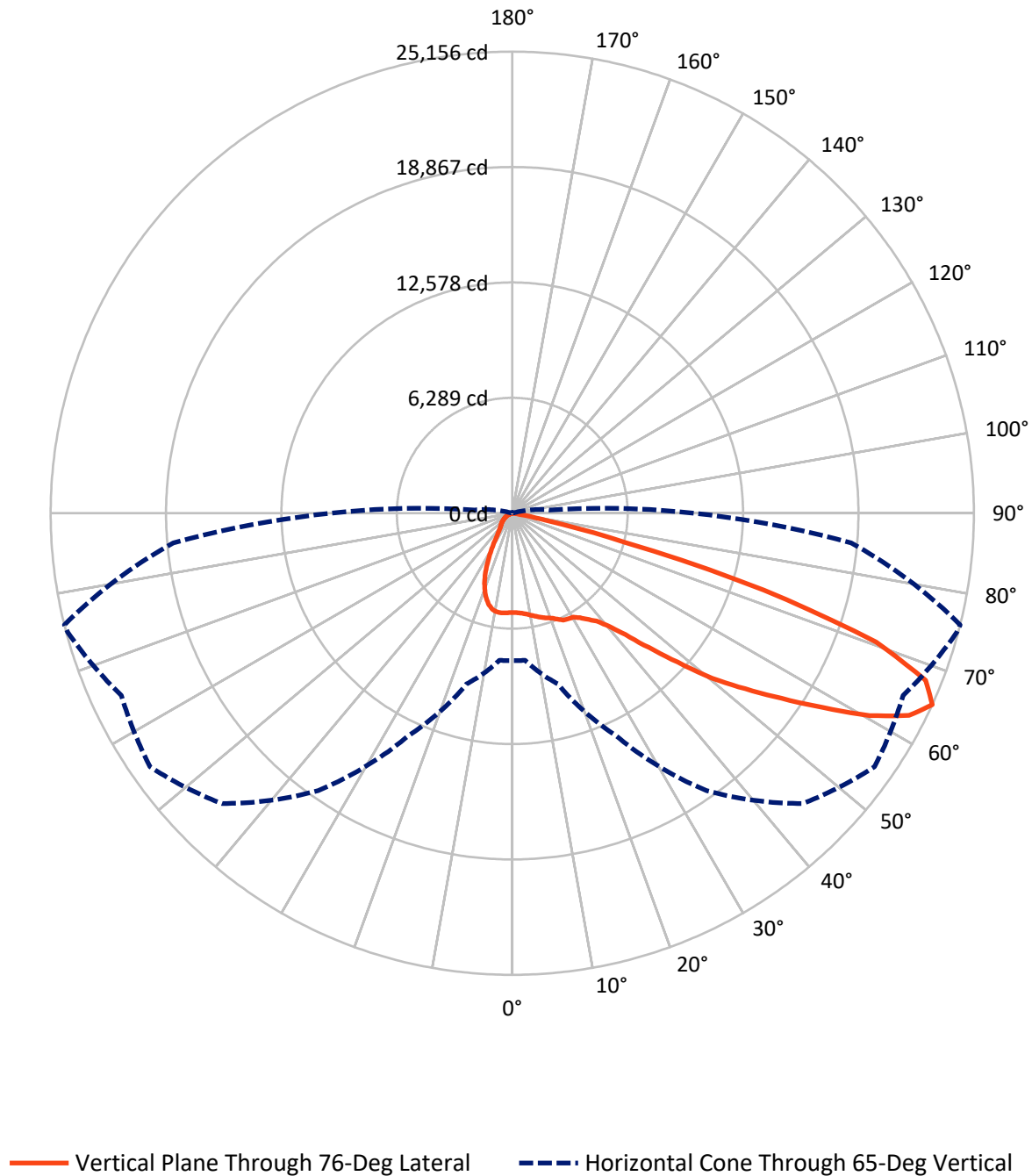


Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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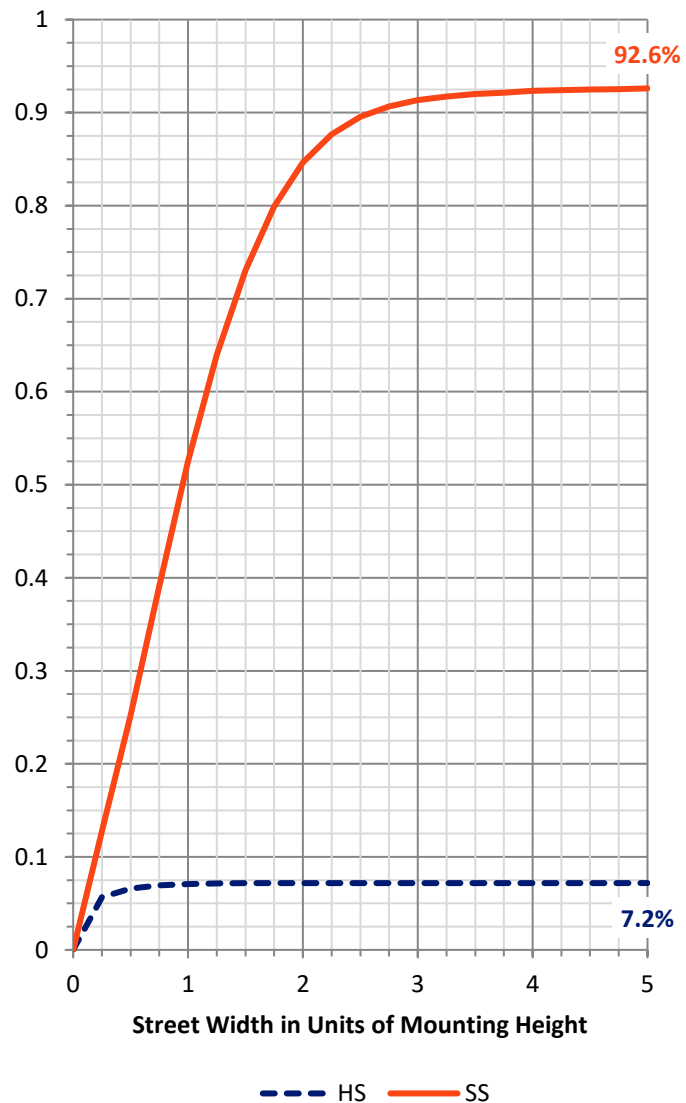
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2134.9   | 0.0    | 2134.9  |
|                    | % Fixture | 7.2      | 0.0    | 7.2     |
| <b>Street Side</b> | Lumens    | 27426.1  | 0.0    | 27426.1 |
|                    | % Fixture | 92.8     | 0.0    | 92.8    |
| <b>Total</b>       | Lumens    | 29561.0  | 0.0    | 29561.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 445.5   | 1.5       |
| 10°-20°   | 991.9   | 3.4       |
| 20°-30°   | 1598.3  | 5.4       |
| 30°-40°   | 2779.0  | 9.4       |
| 40°-50°   | 4592.2  | 15.5      |
| 50°-60°   | 7094.0  | 24.0      |
| 60°-70°   | 8662.8  | 29.3      |
| 70°-80°   | 3287.7  | 11.1      |
| 80°-90°   | 109.7   | 0.4       |
| 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°    | 29561.0 | 100.0     |
| 0°-180°   | 29561.0 | 100.0     |



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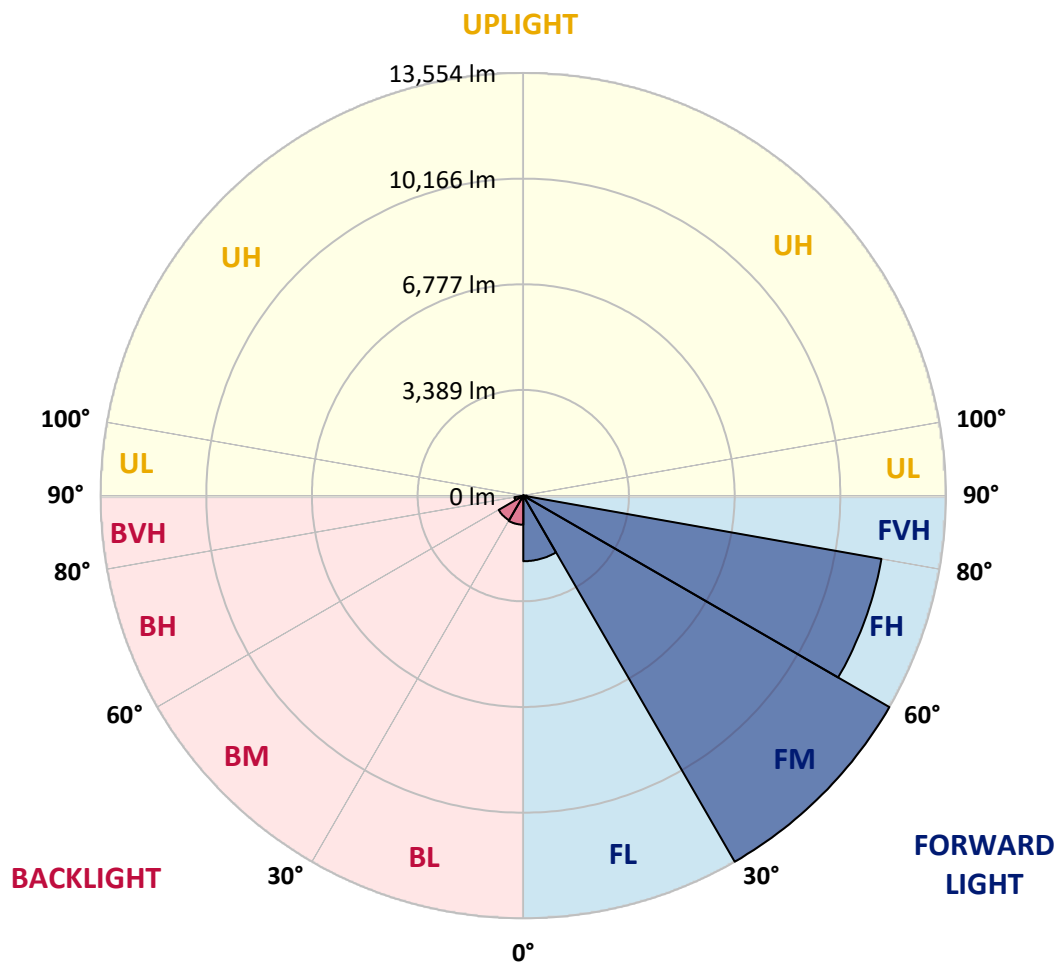
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2102.9  | 7.1       |                         |      |          |
| FM   | (30°-60°)   | 13554.2 | 45.9      |                         |      |          |
| FH   | (60°-80°)   | 11660.8 | 39.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 108.2   | 0.4       |                         |      | G2/225   |
| BL   | (0°-30°)    | 932.7   | 3.2       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 911.0   | 3.1       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 289.7   | 1.0       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 1.5     | 0.0       |                         |      | G0/10    |
| 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°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5407.7  | 5407.7  | 5407.7  | 5407.7  | 5407.7  | 5407.7  | 5407.7  | 5407.7  | 5407.7  | 5407.7  | 5407.7  |
| 2.5°  | 5167.6  | 5169.7  | 5182.2  | 5213.6  | 5261.6  | 5301.2  | 5334.6  | 5388.9  | 5426.4  | 5430.6  | 5443.1  |
| 5°    | 4810.7  | 4785.7  | 4810.7  | 4892.1  | 4965.2  | 5075.8  | 5211.5  | 5347.1  | 5468.2  | 5476.5  | 5535.0  |
| 7.5°  | 4410.0  | 4430.9  | 4470.5  | 4554.0  | 4691.8  | 4860.8  | 5057.0  | 5299.1  | 5528.7  | 5549.6  | 5664.4  |
| 10°   | 4003.0  | 4049.0  | 4113.7  | 4241.0  | 4433.0  | 4652.1  | 4919.3  | 5265.7  | 5624.7  | 5653.9  | 5852.2  |
| 12.5° | 3627.4  | 3648.2  | 3727.5  | 3898.7  | 4136.6  | 4445.5  | 4814.9  | 5246.9  | 5731.1  | 5766.6  | 6052.6  |
| 15°   | 3339.3  | 3366.5  | 3435.4  | 3589.8  | 3854.9  | 4251.4  | 4729.3  | 5240.7  | 5835.5  | 5885.6  | 6252.9  |
| 17.5° | 3285.1  | 3301.8  | 3331.0  | 3435.4  | 3667.0  | 4097.0  | 4652.1  | 5238.6  | 5935.7  | 5996.2  | 6438.7  |
| 20°   | 3508.4  | 3493.8  | 3464.6  | 3454.1  | 3581.4  | 3978.0  | 4595.8  | 5255.3  | 6031.7  | 6100.6  | 6634.9  |
| 22.5° | 4067.7  | 4086.5  | 3915.4  | 3712.9  | 3671.2  | 3959.2  | 4587.4  | 5334.6  | 6184.0  | 6265.4  | 6854.0  |
| 25°   | 5255.3  | 5111.3  | 4844.1  | 4359.9  | 3994.7  | 4074.0  | 4681.3  | 5522.4  | 6361.5  | 6451.2  | 7052.3  |
| 27.5° | 6568.1  | 6524.2  | 6108.9  | 5311.6  | 4631.3  | 4316.1  | 4848.3  | 5666.4  | 6419.9  | 6511.7  | 7165.0  |
| 30°   | 7857.9  | 7910.1  | 7434.2  | 6553.5  | 5555.8  | 4764.8  | 5004.8  | 5720.7  | 6472.1  | 6568.1  | 7309.0  |
| 32.5° | 9053.8  | 9116.4  | 8699.0  | 7826.6  | 6645.3  | 5541.2  | 5274.1  | 5931.5  | 6691.2  | 6789.3  | 7549.0  |
| 35°   | 9995.1  | 10003.4 | 9688.3  | 8993.3  | 7834.9  | 6484.6  | 5856.4  | 6300.9  | 6987.6  | 7102.4  | 7803.6  |
| 37.5° | 10859.1 | 10846.6 | 10477.2 | 9878.2  | 8826.3  | 7421.7  | 6588.9  | 6726.7  | 7325.7  | 7444.7  | 8171.0  |
| 40°   | 11499.9 | 11508.2 | 11389.3 | 10825.7 | 9750.9  | 8287.8  | 7169.2  | 7125.3  | 7893.4  | 8079.1  | 8705.3  |
| 42.5° | 11927.7 | 12004.9 | 12063.4 | 11777.4 | 10913.4 | 9354.3  | 8060.3  | 7978.9  | 8878.5  | 9032.9  | 9460.8  |
| 45°   | 12274.2 | 12411.9 | 12704.1 | 12689.5 | 12030.0 | 10662.9 | 9283.4  | 9116.4  | 10274.7 | 10439.6 | 10422.9 |
| 47.5° | 12526.7 | 12666.5 | 13150.8 | 13442.9 | 13079.8 | 11931.9 | 10821.6 | 10677.6 | 11942.3 | 12121.8 | 11485.3 |
| 50°   | 12656.1 | 12823.1 | 13440.9 | 14006.5 | 13900.0 | 13154.9 | 12574.7 | 12583.1 | 13956.4 | 14129.6 | 12716.6 |
| 52.5° | 12353.5 | 12570.5 | 13595.3 | 14613.8 | 14820.4 | 14325.8 | 14217.3 | 14492.8 | 15749.2 | 15897.4 | 13829.1 |
| 55°   | 11387.2 | 11660.6 | 13384.5 | 15131.4 | 15886.9 | 15707.4 | 16083.1 | 16502.6 | 17709.0 | 17805.0 | 14970.7 |
| 57.5° | 10775.6 | 11065.8 | 12762.6 | 15571.8 | 17168.4 | 17443.9 | 18038.7 | 18345.5 | 19731.3 | 19975.5 | 16281.4 |
| 60°   | 10260.1 | 10487.6 | 12251.2 | 15665.7 | 18470.7 | 19568.6 | 20146.7 | 20463.9 | 22227.5 | 22386.1 | 17723.6 |
| 62.5° | 9402.3  | 9663.2  | 11387.2 | 15010.4 | 19126.1 | 21269.5 | 22467.5 | 22325.6 | 24158.1 | 24268.7 | 18608.5 |
| 65°   | 8022.8  | 8045.7  | 9634.0  | 13363.6 | 18449.9 | 22373.6 | 24097.5 | 23502.7 | 25080.6 | 25155.7 | 18539.6 |
| 67.5° | 5987.9  | 6209.1  | 7411.3  | 10504.3 | 15584.3 | 21430.2 | 24625.6 | 23534.0 | 24498.3 | 24289.6 | 17068.2 |
| 70°   | 3856.9  | 4026.0  | 5023.6  | 7283.9  | 11236.9 | 17884.3 | 22874.5 | 21920.7 | 21501.2 | 21037.9 | 13971.0 |
| 72.5° | 1780.3  | 1997.3  | 2984.5  | 4161.7  | 6664.1  | 12739.6 | 18568.8 | 17809.1 | 15475.8 | 14332.0 | 8880.6  |
| 75°   | 776.4   | 830.7   | 1473.5  | 2195.6  | 3124.4  | 6737.1  | 12242.9 | 11055.3 | 6989.7  | 6384.4  | 3554.3  |
| 77.5° | 473.8   | 509.2   | 772.2   | 1177.1  | 1227.2  | 2567.1  | 6595.2  | 4823.3  | 2160.1  | 1905.5  | 964.2   |
| 80°   | 321.4   | 361.1   | 561.4   | 615.7   | 419.5   | 715.9   | 2475.3  | 1287.7  | 436.2   | 417.4   | 206.6   |
| 82.5° | 156.5   | 198.3   | 415.3   | 344.4   | 181.6   | 229.6   | 720.0   | 275.5   | 127.3   | 119.0   | 73.0    |
| 85°   | 23.0    | 39.7    | 233.8   | 225.4   | 81.4    | 54.3    | 127.3   | 68.9    | 43.8    | 41.7    | 33.4    |
| 87.5° | 0.0     | 0.0     | 79.3    | 35.5    | 8.3     | 8.3     | 14.6    | 14.6    | 16.7    | 14.6    | 16.7    |
| 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°    | 5407.7  | 5407.7 | 5407.7 | 5407.7 | 5407.7 | 5407.7 | 5407.7 | 5407.7 | 5407.7 | 5407.7 | 5407.7 |
| 2.5°  | 5449.4  | 5459.8 | 5420.2 | 5363.8 | 5303.3 | 5242.8 | 5157.2 | 5080.0 | 5034.1 | 5061.2 | 4994.4 |
| 5°    | 5547.5  | 5539.1 | 5434.8 | 5263.6 | 5036.1 | 4762.7 | 4491.4 | 4259.8 | 4184.6 | 4071.9 | 4059.4 |
| 7.5°  | 5683.1  | 5660.2 | 5439.0 | 5046.6 | 4533.2 | 4019.7 | 3518.8 | 3187.0 | 2997.1 | 2836.4 | 2840.5 |
| 10°   | 5873.1  | 5806.3 | 5391.0 | 4664.6 | 3819.4 | 3045.1 | 2406.4 | 1968.1 | 1778.2 | 1717.7 | 1669.7 |
| 12.5° | 6069.3  | 5939.9 | 5257.4 | 4149.1 | 2974.1 | 2080.8 | 1463.1 | 1195.9 | 1079.0 | 1041.5 | 1037.3 |
| 15°   | 6244.6  | 6040.0 | 5023.6 | 3529.3 | 2162.2 | 1329.5 | 997.6  | 910.0  | 895.4  | 897.4  | 895.4  |
| 17.5° | 6417.8  | 6119.3 | 4700.1 | 2871.8 | 1469.3 | 953.8  | 857.8  | 836.9  | 843.2  | 851.5  | 849.4  |
| 20°   | 6561.8  | 6136.0 | 4286.9 | 2191.4 | 1039.4 | 836.9  | 805.6  | 801.4  | 807.7  | 814.0  | 814.0  |
| 22.5° | 6718.3  | 6148.6 | 3796.4 | 1517.3 | 849.4  | 778.5  | 761.8  | 761.8  | 770.1  | 778.5  | 780.6  |
| 25°   | 6835.2  | 6079.7 | 3209.9 | 1089.5 | 749.3  | 722.1  | 713.8  | 715.9  | 724.2  | 728.4  | 726.3  |
| 27.5° | 6854.0  | 5885.6 | 2588.0 | 834.8  | 680.4  | 653.3  | 644.9  | 653.3  | 642.8  | 649.1  | 644.9  |
| 30°   | 6870.7  | 5639.3 | 1957.7 | 703.3  | 617.8  | 576.0  | 563.5  | 551.0  | 542.6  | 532.2  | 530.1  |
| 32.5° | 6922.9  | 5349.2 | 1429.7 | 632.4  | 559.3  | 513.4  | 484.2  | 448.7  | 421.6  | 413.2  | 411.2  |
| 35°   | 6945.8  | 5000.7 | 1049.8 | 576.0  | 507.2  | 457.1  | 404.9  | 354.8  | 315.2  | 300.5  | 311.0  |
| 37.5° | 7033.5  | 4662.6 | 814.0  | 534.3  | 461.2  | 398.6  | 331.8  | 269.2  | 231.7  | 223.3  | 227.5  |
| 40°   | 7213.0  | 4295.2 | 682.5  | 498.8  | 421.6  | 344.4  | 263.0  | 202.4  | 177.4  | 169.1  | 167.0  |
| 42.5° | 7501.0  | 3930.0 | 607.3  | 465.4  | 381.9  | 290.1  | 206.6  | 158.6  | 137.7  | 131.5  | 131.5  |
| 45°   | 7851.6  | 3579.4 | 555.2  | 429.9  | 340.2  | 233.8  | 162.8  | 127.3  | 114.8  | 110.6  | 110.6  |
| 47.5° | 8312.9  | 3272.6 | 511.3  | 394.5  | 294.3  | 185.8  | 131.5  | 110.6  | 102.3  | 104.4  | 106.4  |
| 50°   | 8780.4  | 3045.1 | 463.3  | 354.8  | 242.1  | 152.4  | 112.7  | 98.1   | 96.0   | 98.1   | 98.1   |
| 52.5° | 9133.1  | 2911.5 | 398.6  | 300.5  | 189.9  | 127.3  | 100.2  | 91.8   | 89.7   | 85.6   | 85.6   |
| 55°   | 9609.0  | 2882.3 | 317.2  | 244.2  | 150.3  | 106.4  | 89.7   | 83.5   | 77.2   | 73.0   | 71.0   |
| 57.5° | 10220.5 | 2915.7 | 244.2  | 189.9  | 116.9  | 87.7   | 79.3   | 68.9   | 60.5   | 52.2   | 52.2   |
| 60°   | 10600.3 | 2840.5 | 189.9  | 146.1  | 85.6   | 71.0   | 60.5   | 50.1   | 39.7   | 33.4   | 31.3   |
| 62.5° | 10479.3 | 2523.3 | 150.3  | 108.5  | 60.5   | 52.2   | 39.7   | 33.4   | 23.0   | 16.7   | 14.6   |
| 65°   | 9855.2  | 2037.0 | 121.1  | 75.1   | 43.8   | 31.3   | 20.9   | 20.9   | 10.4   | 2.1    | 0.0    |
| 67.5° | 8625.9  | 1509.0 | 96.0   | 50.1   | 25.0   | 14.6   | 10.4   | 6.3    | 0.0    | 0.0    | 0.0    |
| 70°   | 7021.0  | 1089.5 | 75.1   | 31.3   | 14.6   | 10.4   | 4.2    | 2.1    | 0.0    | 0.0    | 0.0    |
| 72.5° | 4458.0  | 624.0  | 58.4   | 18.8   | 10.4   | 4.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 1723.9  | 244.2  | 39.7   | 12.5   | 4.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 488.4   | 114.8  | 23.0   | 6.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 127.3   | 50.1   | 12.5   | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 60.5    | 20.9   | 4.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 35.5    | 8.3    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 16.7    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)