

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: P322561

Luminaire Tested: **GAN-SA7B-740-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322561  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7B-740-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28705 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

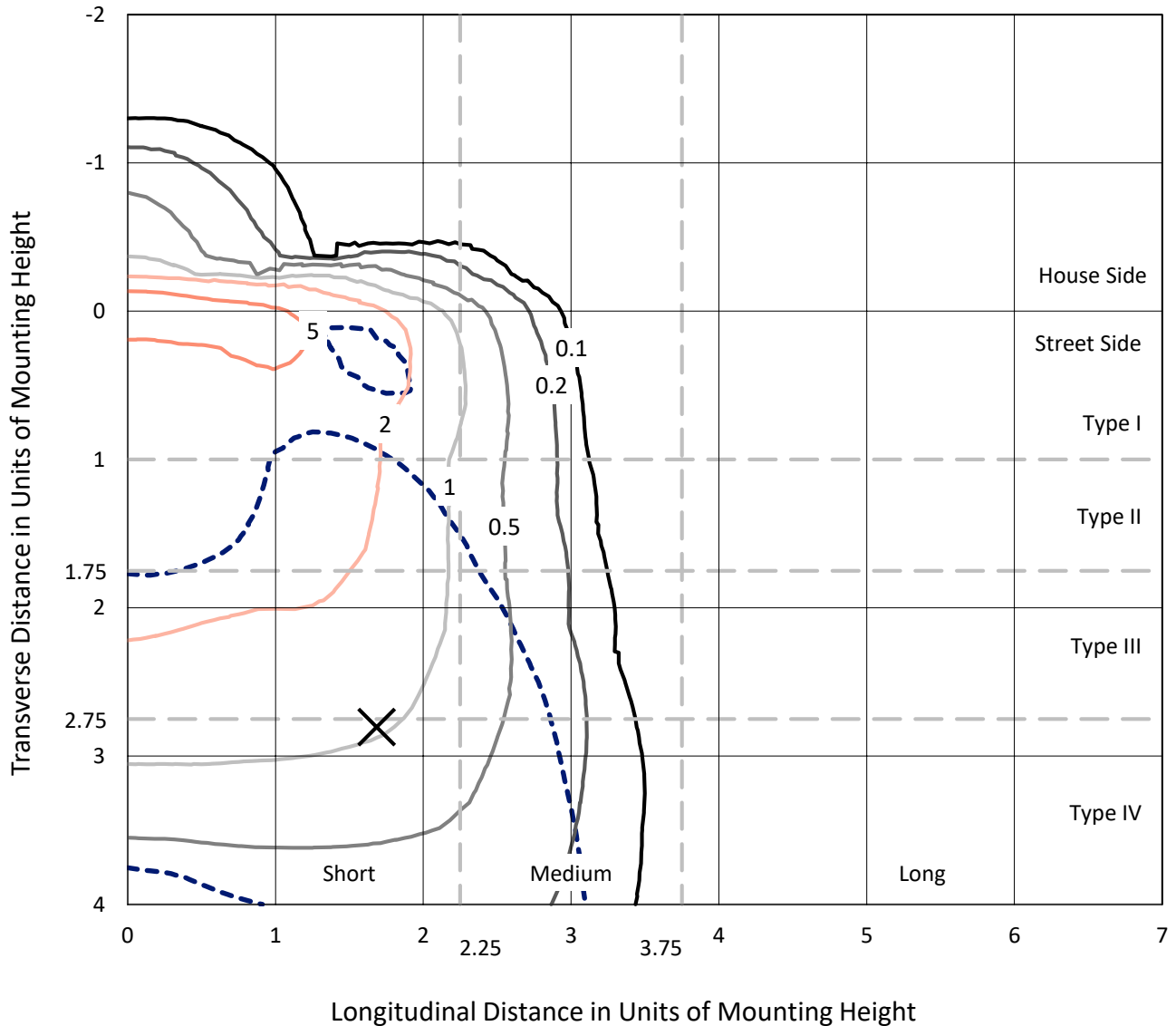
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

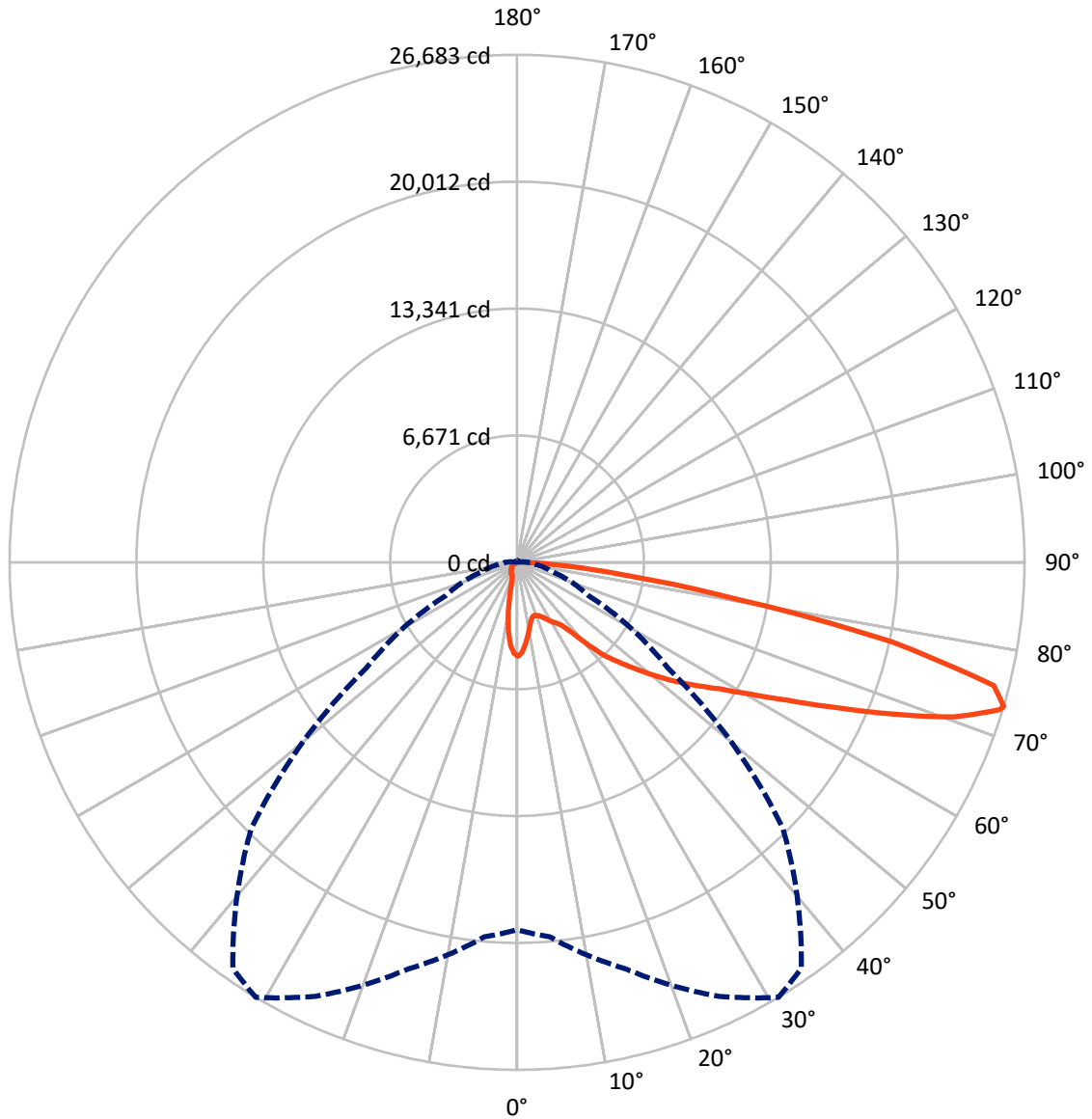
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2616.6   | 0.0    | 2616.6  |
|                    | % Fixture | 9.1      | 0.0    | 9.1     |
| <b>Street Side</b> | Lumens    | 26088.4  | 0.0    | 26088.4 |
|                    | % Fixture | 90.9     | 0.0    | 90.9    |
| <b>Total</b>       | Lumens    | 28705.0  | 0.0    | 28705.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 409.5   | 1.4       |
| 10°-20°   | 889.1   | 3.1       |
| 20°-30°   | 1332.2  | 4.6       |
| 30°-40°   | 2119.5  | 7.4       |
| 40°-50°   | 3784.8  | 13.2      |
| 50°-60°   | 5872.9  | 20.5      |
| 60°-70°   | 7807.3  | 27.2      |
| 70°-80°   | 5872.6  | 20.5      |
| 80°-90°   | 617.1   | 2.1       |
| 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°    | 28705.0 | 100.0     |
| 0°-180°   | 28705.0 | 100.0     |

**Coefficient of Utilization**



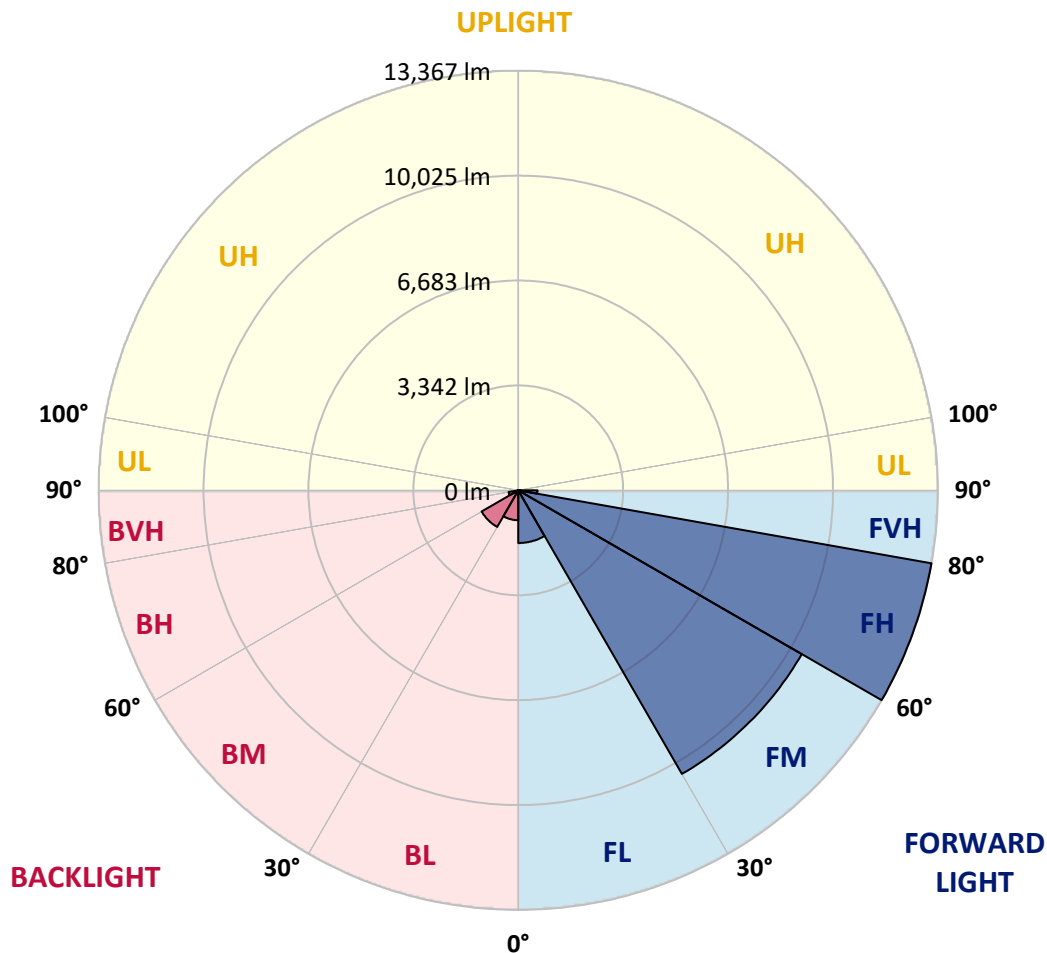
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 1679.3  | 5.9       |                         |      |        |
| FM (30°-60°)   | 10430.4 | 36.3      |                         |      |        |
| FH (60°-80°)   | 13366.9 | 46.6      |                         |      | G5     |
| FVH (80°-90°)  | 611.9   | 2.1       |                         |      | G4/750 |
| BL (0°-30°)    | 951.5   | 3.3       | B2/1000                 |      |        |
| BM (30°-60°)   | 1346.8  | 4.7       | B2/2500                 |      |        |
| BH (60°-80°)   | 313.1   | 1.1       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 5.2     | 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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 31°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4938.8  | 4938.8  | 4938.8  | 4938.8  | 4938.8  | 4938.8  | 4938.8  | 4938.8  | 4938.8  | 4938.8  | 4938.8  |
| 2.5°  | 4680.3  | 4700.0  | 4721.0  | 4725.2  | 4760.4  | 4761.8  | 4812.3  | 4850.3  | 4888.2  | 4924.7  | 4937.3  |
| 5°    | 4199.9  | 4232.2  | 4270.1  | 4308.1  | 4382.5  | 4412.0  | 4535.6  | 4662.0  | 4782.8  | 4898.0  | 4954.2  |
| 7.5°  | 3687.2  | 3723.7  | 3777.1  | 3871.2  | 3954.1  | 4011.7  | 4206.9  | 4431.7  | 4656.4  | 4868.5  | 4990.7  |
| 10°   | 3219.5  | 3253.2  | 3309.4  | 3409.1  | 3536.9  | 3615.6  | 3878.2  | 4190.1  | 4520.2  | 4841.8  | 5045.5  |
| 12.5° | 2921.7  | 2939.9  | 2970.8  | 3077.6  | 3192.8  | 3281.3  | 3590.3  | 3976.6  | 4407.8  | 4840.4  | 5134.0  |
| 15°   | 2866.9  | 2872.5  | 2847.2  | 2895.0  | 2984.9  | 3070.6  | 3383.8  | 3803.8  | 4322.1  | 4862.9  | 5249.2  |
| 17.5° | 2954.0  | 2951.2  | 2866.9  | 2861.3  | 2932.9  | 3003.1  | 3282.7  | 3684.4  | 4261.7  | 4914.9  | 5398.1  |
| 20°   | 3086.0  | 3076.2  | 2930.1  | 2903.4  | 2979.3  | 3045.3  | 3275.6  | 3639.5  | 4239.2  | 5002.0  | 5579.3  |
| 22.5° | 3261.6  | 3244.7  | 3015.8  | 2987.7  | 3069.2  | 3138.0  | 3362.7  | 3683.0  | 4258.9  | 5118.5  | 5790.0  |
| 25°   | 3479.3  | 3454.0  | 3163.3  | 3132.4  | 3215.2  | 3284.1  | 3518.7  | 3808.0  | 4317.9  | 5260.4  | 6056.9  |
| 27.5° | 3725.1  | 3688.6  | 3399.3  | 3319.2  | 3413.3  | 3484.9  | 3726.5  | 3999.0  | 4410.6  | 5410.7  | 6384.1  |
| 30°   | 3956.9  | 3909.1  | 3647.9  | 3515.8  | 3631.0  | 3711.1  | 3951.3  | 4226.6  | 4559.5  | 5642.5  | 6832.2  |
| 32.5° | 4190.1  | 4136.7  | 3869.8  | 3712.5  | 3816.4  | 3903.5  | 4183.1  | 4539.8  | 4839.0  | 5996.5  | 7427.8  |
| 35°   | 4726.7  | 4670.5  | 4343.2  | 4083.3  | 4081.9  | 4131.1  | 4507.5  | 4968.3  | 5208.4  | 6489.5  | 8138.5  |
| 37.5° | 5629.8  | 5597.5  | 5285.7  | 4792.7  | 4660.6  | 4605.9  | 4950.0  | 5479.5  | 5739.4  | 7167.9  | 8940.6  |
| 40°   | 6618.7  | 6590.6  | 6240.9  | 5794.2  | 5593.3  | 5458.5  | 5584.9  | 6191.7  | 6489.5  | 7996.7  | 9759.5  |
| 42.5° | 7735.4  | 7602.0  | 6978.3  | 6844.9  | 6665.1  | 6562.5  | 6448.8  | 7069.6  | 7410.9  | 8898.5  | 10571.4 |
| 45°   | 8749.6  | 8524.8  | 7715.7  | 7513.5  | 7472.7  | 7498.0  | 7561.2  | 8249.5  | 8447.6  | 9970.2  | 11380.5 |
| 47.5° | 9353.6  | 9176.6  | 8555.7  | 8361.9  | 8350.7  | 8517.8  | 8995.4  | 9582.5  | 9480.0  | 10904.3 | 12092.6 |
| 50°   | 9928.1  | 9767.9  | 9252.4  | 9300.2  | 9352.2  | 9579.7  | 10623.4 | 10953.5 | 10422.5 | 11751.3 | 12745.8 |
| 52.5° | 10393.0 | 10148.6 | 9878.9  | 10147.2 | 10402.8 | 10769.5 | 12303.3 | 12183.9 | 11091.1 | 12425.5 | 13304.9 |
| 55°   | 10661.3 | 10550.3 | 10681.0 | 10950.7 | 11431.1 | 12026.6 | 13889.2 | 13207.9 | 11579.9 | 13040.8 | 13677.1 |
| 57.5° | 11644.6 | 11426.8 | 11686.7 | 11919.9 | 12546.3 | 13379.3 | 15247.5 | 13970.7 | 11932.5 | 13421.4 | 13762.8 |
| 60°   | 12834.3 | 12658.7 | 12811.8 | 13199.5 | 14045.1 | 15024.2 | 16517.3 | 14592.9 | 12116.5 | 13665.9 | 13540.8 |
| 62.5° | 14727.8 | 14496.0 | 14400.5 | 14834.5 | 15955.4 | 17024.4 | 17480.9 | 15024.2 | 12075.8 | 13557.7 | 12779.5 |
| 65°   | 17264.6 | 17024.4 | 16597.4 | 16990.7 | 18416.4 | 19170.7 | 18558.3 | 15115.5 | 11794.9 | 12682.6 | 10855.1 |
| 67.5° | 19863.2 | 19689.0 | 19323.8 | 19986.8 | 21273.4 | 21516.4 | 19697.4 | 14893.5 | 10890.3 | 10283.5 | 7669.4  |
| 70°   | 21579.7 | 21505.2 | 21742.6 | 23209.1 | 24356.7 | 24286.4 | 20742.5 | 13701.0 | 8488.3  | 6323.7  | 3794.0  |
| 72.5° | 20342.2 | 20698.9 | 22451.9 | 25111.0 | 26512.8 | 25939.7 | 20205.9 | 10520.8 | 4851.7  | 2432.9  | 1097.0  |
| 73°   | 19316.8 | 19773.3 | 22133.1 | 25182.6 | 26682.8 | 26054.9 | 19755.0 | 9657.0  | 4135.3  | 1920.2  | 831.6   |
| 75°   | 13438.3 | 13998.8 | 18323.7 | 23453.5 | 25887.7 | 24824.4 | 16466.7 | 5910.8  | 1915.9  | 851.2   | 335.7   |
| 77.5° | 6524.6  | 6939.0  | 10089.6 | 16945.7 | 20132.9 | 19395.4 | 10251.1 | 2202.5  | 865.3   | 532.4   | 154.5   |
| 80°   | 2435.7  | 2708.2  | 4379.7  | 8624.6  | 11634.7 | 11939.5 | 4508.9  | 833.0   | 575.9   | 428.4   | 78.7    |
| 82.5° | 637.7   | 710.8   | 1615.3  | 3845.9  | 5962.7  | 6240.9  | 1421.5  | 420.0   | 421.4   | 352.6   | 47.8    |
| 85°   | 203.7   | 233.2   | 504.3   | 1726.3  | 2809.3  | 2466.6  | 370.8   | 203.7   | 306.2   | 262.7   | 26.7    |
| 87.5° | 25.3    | 32.3    | 160.1   | 405.9   | 619.5   | 344.1   | 57.6    | 60.4    | 130.6   | 146.1   | 15.5    |
| 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°    | 4938.8  | 4938.8 | 4938.8 | 4938.8 | 4938.8 | 4938.8 | 4938.8 | 4938.8 | 4938.8 | 4938.8 | 4938.8 |
| 2.5°  | 4950.0  | 4943.0 | 4944.4 | 4907.9 | 4884.0 | 4836.2 | 4787.1 | 4764.6 | 4740.7 | 4730.9 | 4740.7 |
| 5°    | 4975.3  | 4962.6 | 4926.1 | 4813.7 | 4694.3 | 4539.8 | 4395.2 | 4285.6 | 4147.9 | 4110.0 | 4149.3 |
| 7.5°  | 5014.6  | 4989.3 | 4882.6 | 4653.6 | 4388.1 | 4093.2 | 3761.7 | 3520.1 | 3322.0 | 3194.2 | 3240.5 |
| 10°   | 5072.2  | 5024.4 | 4809.5 | 4420.4 | 3945.7 | 3423.1 | 2952.6 | 2586.0 | 2326.1 | 2219.3 | 2215.1 |
| 12.5° | 5169.1  | 5079.2 | 4719.6 | 4117.0 | 3404.9 | 2708.2 | 2091.5 | 1694.0 | 1483.3 | 1347.1 | 1344.3 |
| 15°   | 5275.9  | 5143.8 | 4605.9 | 3753.2 | 2775.6 | 1939.8 | 1347.1 | 1045.1 | 908.8  | 865.3  | 859.6  |
| 17.5° | 5406.5  | 5218.3 | 4458.4 | 3305.1 | 2116.8 | 1285.3 | 879.3  | 792.2  | 786.6  | 782.4  | 782.4  |
| 20°   | 5570.8  | 5306.8 | 4268.7 | 2792.4 | 1501.6 | 858.2  | 747.3  | 752.9  | 755.7  | 750.1  | 751.5  |
| 22.5° | 5761.9  | 5396.7 | 4042.6 | 2241.8 | 1015.6 | 717.8  | 715.0  | 722.0  | 724.8  | 722.0  | 723.4  |
| 25°   | 5983.8  | 5500.6 | 3767.3 | 1664.5 | 733.2  | 681.3  | 688.3  | 698.1  | 705.1  | 705.1  | 705.1  |
| 27.5° | 6259.1  | 5627.0 | 3435.8 | 1161.6 | 633.5  | 643.3  | 663.0  | 681.3  | 691.1  | 693.9  | 693.9  |
| 30°   | 6617.3  | 5784.4 | 3038.3 | 796.4  | 575.9  | 592.8  | 629.3  | 664.4  | 682.7  | 685.5  | 686.9  |
| 32.5° | 7069.6  | 5961.3 | 2577.5 | 588.5  | 526.7  | 539.4  | 578.7  | 637.7  | 672.8  | 678.4  | 678.4  |
| 35°   | 7587.9  | 6166.4 | 2081.7 | 512.7  | 491.6  | 495.8  | 526.7  | 594.2  | 656.0  | 671.4  | 672.8  |
| 37.5° | 8155.4  | 6368.7 | 1583.0 | 479.0  | 462.1  | 462.1  | 484.6  | 542.2  | 615.2  | 663.0  | 668.6  |
| 40°   | 8685.0  | 6490.9 | 1109.7 | 452.3  | 435.4  | 435.4  | 455.1  | 497.2  | 566.1  | 637.7  | 653.2  |
| 42.5° | 9173.8  | 6533.0 | 772.6  | 427.0  | 410.2  | 414.4  | 431.2  | 464.9  | 516.9  | 588.5  | 602.6  |
| 45°   | 9676.6  | 6526.0 | 563.3  | 397.5  | 384.9  | 397.5  | 410.2  | 435.4  | 473.4  | 514.1  | 516.9  |
| 47.5° | 10055.9 | 6467.0 | 446.7  | 369.4  | 361.0  | 377.9  | 389.1  | 405.9  | 427.0  | 424.2  | 424.2  |
| 50°   | 10411.3 | 6323.7 | 359.6  | 331.5  | 337.1  | 356.8  | 362.4  | 368.0  | 369.4  | 342.7  | 339.9  |
| 52.5° | 10681.0 | 6100.4 | 288.0  | 290.8  | 313.2  | 332.9  | 327.3  | 318.9  | 304.8  | 272.5  | 266.9  |
| 55°   | 10770.9 | 5670.6 | 226.1  | 240.2  | 278.1  | 303.4  | 282.3  | 264.1  | 237.4  | 210.7  | 205.1  |
| 57.5° | 10607.9 | 5115.7 | 184.0  | 186.8  | 234.6  | 255.6  | 231.8  | 210.7  | 181.2  | 158.7  | 154.5  |
| 60°   | 10262.4 | 4499.1 | 151.7  | 140.5  | 181.2  | 199.5  | 184.0  | 162.9  | 136.3  | 119.4  | 118.0  |
| 62.5° | 9576.9  | 3841.7 | 125.0  | 109.6  | 137.7  | 153.1  | 143.3  | 127.8  | 105.3  | 94.1   | 92.7   |
| 65°   | 8135.7  | 3073.4 | 101.1  | 88.5   | 106.8  | 119.4  | 111.0  | 99.7   | 82.9   | 74.4   | 73.0   |
| 67.5° | 5679.0  | 2077.5 | 82.9   | 73.0   | 84.3   | 94.1   | 87.1   | 81.5   | 66.0   | 64.6   | 66.0   |
| 70°   | 2739.1  | 1001.5 | 68.8   | 59.0   | 66.0   | 73.0   | 70.2   | 66.0   | 63.2   | 73.0   | 84.3   |
| 72.5° | 785.2   | 335.7  | 54.8   | 49.2   | 53.4   | 57.6   | 60.4   | 59.0   | 68.8   | 88.5   | 102.5  |
| 73°   | 604.0   | 271.1  | 52.0   | 46.4   | 50.6   | 56.2   | 59.0   | 57.6   | 70.2   | 89.9   | 102.5  |
| 75°   | 258.5   | 130.6  | 39.3   | 37.9   | 42.1   | 49.2   | 52.0   | 52.0   | 70.2   | 91.3   | 98.3   |
| 77.5° | 116.6   | 70.2   | 25.3   | 29.5   | 36.5   | 39.3   | 43.5   | 43.5   | 56.2   | 70.2   | 70.2   |
| 80°   | 66.0    | 37.9   | 19.7   | 22.5   | 26.7   | 26.7   | 26.7   | 23.9   | 25.3   | 28.1   | 30.9   |
| 82.5° | 42.1    | 25.3   | 15.5   | 18.3   | 16.9   | 14.0   | 11.2   | 11.2   | 9.8    | 11.2   | 14.0   |
| 85°   | 23.9    | 14.0   | 14.0   | 11.2   | 7.0    | 5.6    | 7.0    | 5.6    | 1.4    | 0.0    | 1.4    |
| 87.5° | 14.0    | 8.4    | 4.2    | 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)