

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: P322792

Luminaire Tested: **GAN-SA8A-727-U-T4W-HSS**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P322792  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8A-727-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 22638 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

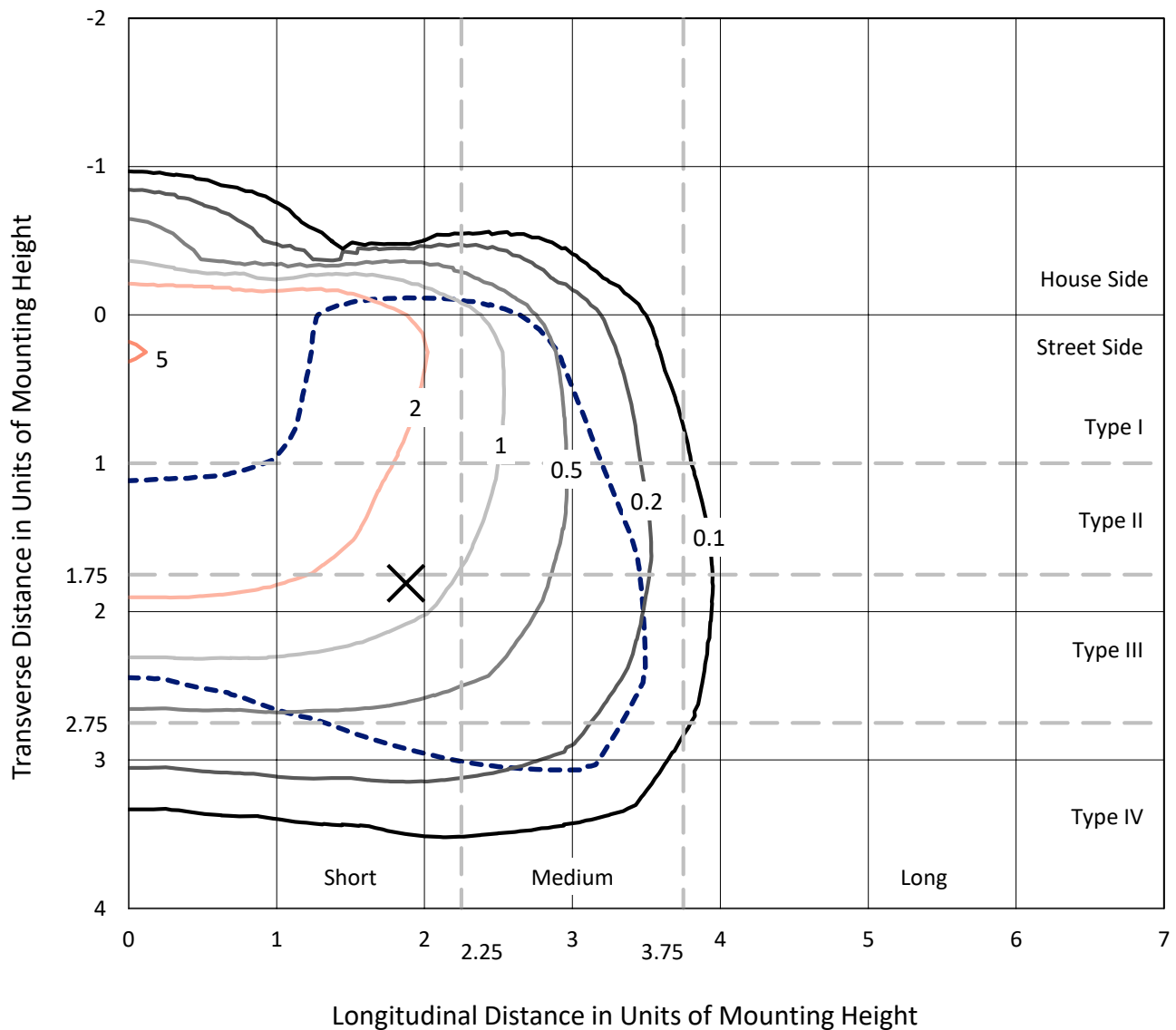
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

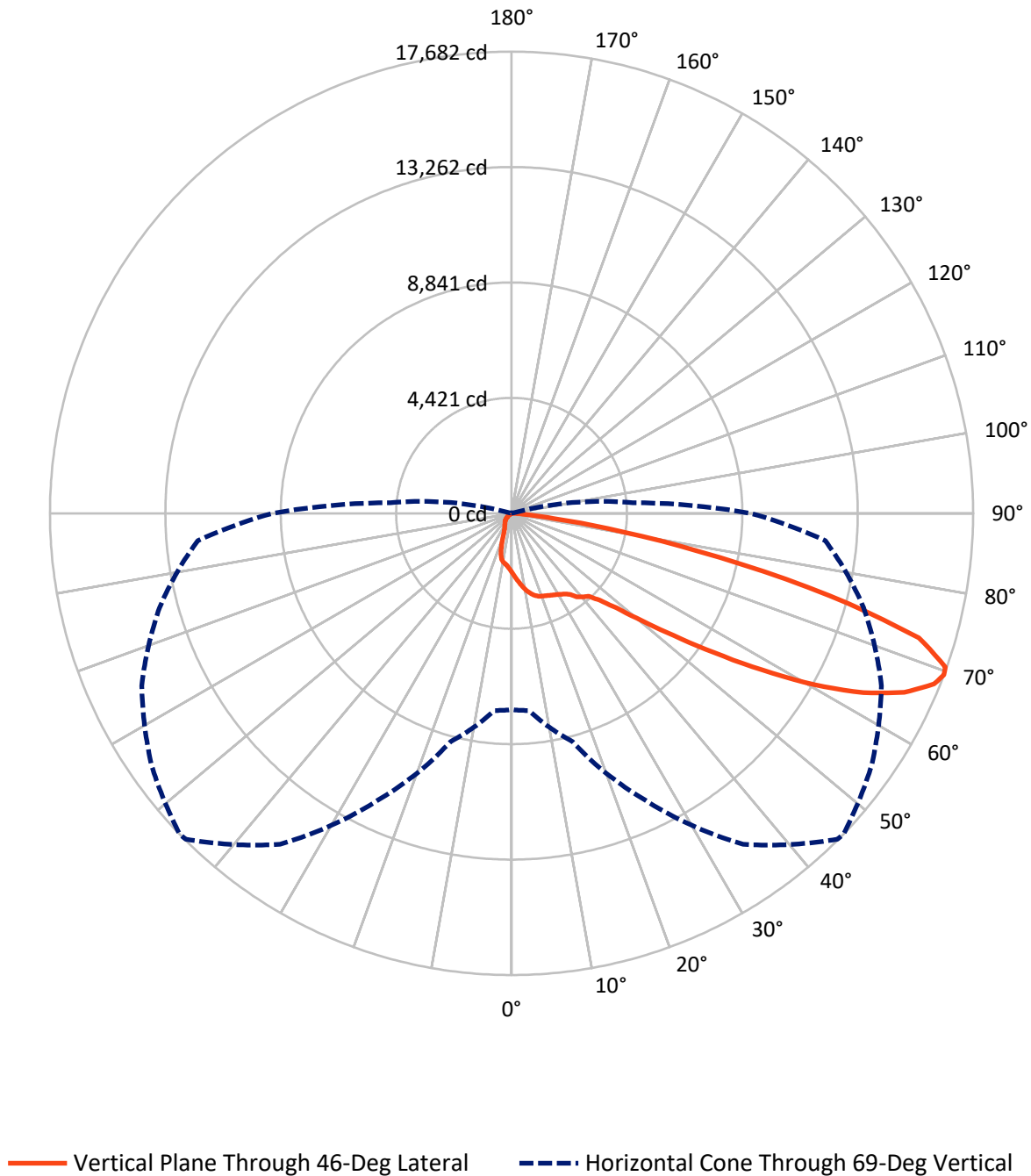
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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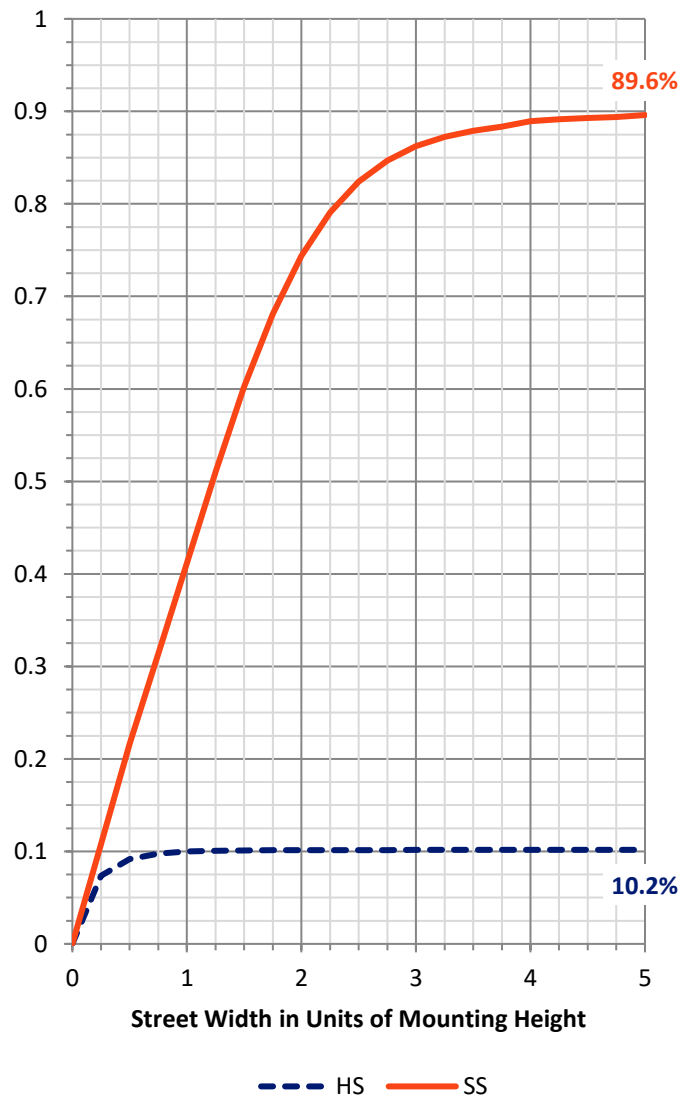
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2323.3   | 0.0    | 2323.3  |
|                    | % Fixture | 10.3     | 0.0    | 10.3    |
| <b>Street Side</b> | Lumens    | 20314.7  | 0.0    | 20314.7 |
|                    | % Fixture | 89.7     | 0.0    | 89.7    |
| <b>Total</b>       | Lumens    | 22638.0  | 0.0    | 22638.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 225.8   | 1.0       |
| 10°-20°   | 684.9   | 3.0       |
| 20°-30°   | 1077.2  | 4.8       |
| 30°-40°   | 1544.7  | 6.8       |
| 40°-50°   | 2669.7  | 11.8      |
| 50°-60°   | 5274.3  | 23.3      |
| 60°-70°   | 7371.4  | 32.6      |
| 70°-80°   | 3561.2  | 15.7      |
| 80°-90°   | 228.9   | 1.0       |
| 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°    | 22638.0 | 100.0     |
| 0°-180°   | 22638.0 | 100.0     |

**Coefficient of Utilization**



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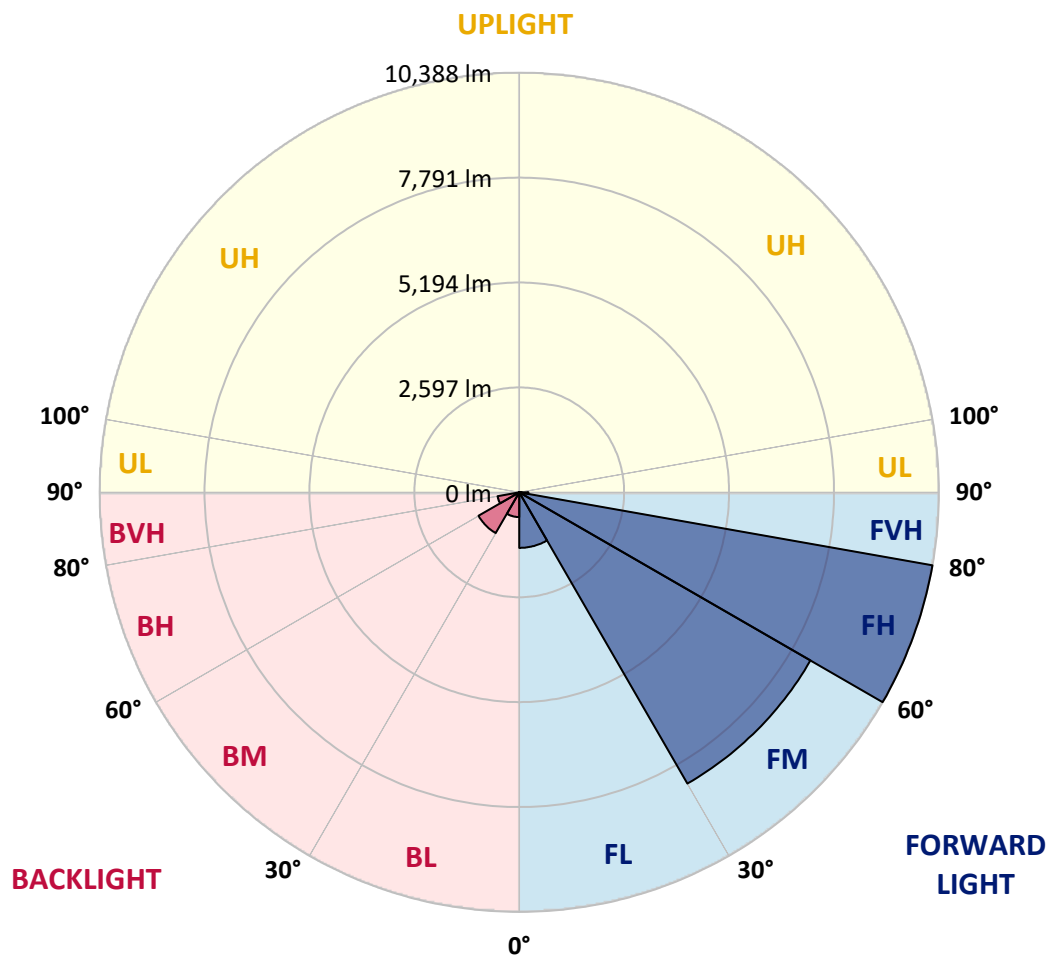
CATALOG NUMBER: GAN-SA8A-727-U-T4W-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1375.5  | 6.1       |                         |      |          |
| FM   | (30°-60°)   | 8324.5  | 36.8      |                         |      |          |
| FH   | (60°-80°)   | 10387.7 | 45.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 227.0   | 1.0       |                         |      | G3/500   |
| BL   | (0°-30°)    | 612.3   | 2.7       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1164.3  | 5.1       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 544.8   | 2.4       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 1.9     | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2268.2  | 2268.2  | 2268.2  | 2268.2  | 2268.2  | 2268.2  | 2268.2  | 2268.2  | 2268.2  | 2268.2  | 2268.2  |
| 2.5°  | 2519.8  | 2516.6  | 2501.8  | 2495.4  | 2459.3  | 2438.1  | 2429.6  | 2403.0  | 2364.8  | 2326.6  | 2284.2  |
| 5°    | 2806.4  | 2805.3  | 2777.7  | 2751.2  | 2683.3  | 2619.6  | 2607.9  | 2546.3  | 2460.4  | 2379.7  | 2299.0  |
| 7.5°  | 3099.3  | 3085.5  | 3057.9  | 3007.0  | 2908.3  | 2806.4  | 2796.8  | 2709.8  | 2587.7  | 2471.0  | 2355.3  |
| 10°   | 3347.7  | 3339.2  | 3303.1  | 3225.6  | 3109.9  | 2994.3  | 2982.6  | 2875.4  | 2737.4  | 2594.1  | 2446.6  |
| 12.5° | 3540.9  | 3534.5  | 3486.7  | 3390.2  | 3267.0  | 3147.1  | 3131.2  | 3035.6  | 2888.1  | 2727.8  | 2553.8  |
| 15°   | 3658.7  | 3655.5  | 3597.1  | 3494.2  | 3373.2  | 3269.2  | 3255.4  | 3171.5  | 3034.6  | 2866.9  | 2670.5  |
| 17.5° | 3686.3  | 3687.4  | 3626.9  | 3522.8  | 3423.1  | 3348.8  | 3338.1  | 3274.5  | 3159.8  | 2993.2  | 2787.3  |
| 20°   | 3624.7  | 3637.5  | 3583.3  | 3493.1  | 3431.6  | 3392.3  | 3383.8  | 3345.6  | 3249.0  | 3091.9  | 2880.7  |
| 22.5° | 3537.7  | 3544.1  | 3506.9  | 3446.4  | 3420.9  | 3428.4  | 3424.1  | 3402.9  | 3321.2  | 3176.8  | 2973.0  |
| 25°   | 3484.6  | 3484.6  | 3462.3  | 3411.4  | 3428.4  | 3474.0  | 3475.1  | 3470.8  | 3406.1  | 3280.8  | 3085.5  |
| 27.5° | 3482.5  | 3476.1  | 3450.7  | 3412.4  | 3459.2  | 3529.2  | 3533.4  | 3562.1  | 3521.8  | 3407.1  | 3225.6  |
| 30°   | 3567.4  | 3560.0  | 3505.9  | 3456.0  | 3515.4  | 3590.8  | 3601.4  | 3664.0  | 3643.8  | 3544.1  | 3381.7  |
| 32.5° | 3765.9  | 3739.4  | 3619.4  | 3537.7  | 3582.3  | 3672.5  | 3686.3  | 3786.1  | 3817.9  | 3712.8  | 3532.4  |
| 35°   | 4037.6  | 3953.8  | 3780.8  | 3692.7  | 3696.9  | 3791.4  | 3804.1  | 3950.6  | 4045.1  | 3867.8  | 3649.1  |
| 37.5° | 4412.3  | 4370.9  | 4089.6  | 3854.0  | 3873.1  | 4016.4  | 4053.5  | 4212.8  | 4186.2  | 3952.7  | 3781.8  |
| 40°   | 5233.8  | 5169.1  | 4869.8  | 4306.2  | 4041.9  | 4199.0  | 4210.6  | 4295.5  | 4297.7  | 4144.8  | 4057.8  |
| 42.5° | 6352.6  | 6326.0  | 6010.8  | 5126.6  | 4374.1  | 4321.0  | 4342.2  | 4485.5  | 4645.8  | 4550.3  | 4546.0  |
| 45°   | 7591.2  | 7577.4  | 7243.1  | 6215.6  | 5046.0  | 4721.2  | 4747.7  | 4939.8  | 5246.6  | 5267.8  | 5402.6  |
| 47.5° | 8587.9  | 8581.5  | 8389.4  | 7431.0  | 6074.5  | 5399.4  | 5407.9  | 5611.7  | 6150.9  | 6417.3  | 6632.8  |
| 50°   | 9496.5  | 9527.3  | 9375.5  | 8746.1  | 7475.5  | 6461.9  | 6441.7  | 6577.6  | 7443.7  | 7879.9  | 8147.4  |
| 52.5° | 10759.6 | 10803.1 | 10377.5 | 9973.1  | 8945.6  | 7780.2  | 7764.2  | 7906.5  | 8997.6  | 9324.5  | 9372.3  |
| 55°   | 11875.1 | 11800.8 | 11464.3 | 11347.6 | 10738.3 | 9408.4  | 9404.1  | 9529.4  | 10500.6 | 10639.6 | 10727.7 |
| 57.5° | 12367.6 | 12338.9 | 12501.3 | 12768.8 | 12616.0 | 11332.7 | 11323.2 | 11227.6 | 11845.4 | 11860.2 | 12130.9 |
| 60°   | 12678.6 | 12713.6 | 13211.4 | 14036.1 | 14417.2 | 13403.5 | 13342.0 | 12759.3 | 13129.7 | 13096.8 | 13386.6 |
| 62.5° | 12445.1 | 12514.1 | 13409.9 | 14784.4 | 15765.2 | 15211.1 | 15124.1 | 14162.5 | 14227.2 | 14113.6 | 14383.2 |
| 65°   | 11205.4 | 11312.6 | 12780.5 | 14643.3 | 16433.9 | 16623.9 | 16535.8 | 15401.1 | 15098.6 | 14911.8 | 14762.2 |
| 67.5° | 9098.4  | 9162.1  | 10694.8 | 13415.2 | 16132.4 | 17466.6 | 17448.6 | 16487.0 | 15756.7 | 14777.0 | 13615.8 |
| 69°   | 7519.1  | 7581.7  | 9057.1  | 12122.4 | 15469.1 | 17647.1 | 17682.1 | 16835.1 | 15631.5 | 13957.6 | 12064.0 |
| 70°   | 6368.5  | 6435.4  | 7809.9  | 11014.3 | 14699.5 | 17563.2 | 17625.9 | 16802.2 | 15272.7 | 13008.7 | 10702.2 |
| 72.5° | 3340.3  | 3397.6  | 4808.2  | 7588.1  | 11983.4 | 16127.1 | 16317.1 | 15382.0 | 12946.1 | 9447.7  | 6328.2  |
| 75°   | 1049.7  | 1082.6  | 1877.6  | 3966.5  | 8204.7  | 12539.6 | 12583.1 | 12066.2 | 9192.9  | 5196.7  | 2635.5  |
| 77.5° | 400.2   | 390.6   | 625.2   | 1461.6  | 4148.0  | 7895.9  | 8162.3  | 7540.3  | 4824.1  | 1837.3  | 608.2   |
| 80°   | 215.5   | 216.5   | 324.8   | 605.0   | 1774.7  | 4057.8  | 4282.8  | 3654.5  | 1714.2  | 573.2   | 140.1   |
| 82.5° | 93.4    | 97.7    | 182.6   | 320.5   | 815.2   | 1496.6  | 1609.1  | 1339.5  | 654.9   | 385.3   | 52.0    |
| 85°   | 20.2    | 22.3    | 88.1    | 174.1   | 332.2   | 420.3   | 440.5   | 434.1   | 417.1   | 299.3   | 20.2    |
| 87.5° | 0.0     | 0.0     | 39.3    | 62.6    | 83.9    | 95.5    | 83.9    | 109.3   | 230.3   | 201.7   | 10.6    |
| 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°    | 2268.2  | 2268.2 | 2268.2 | 2268.2 | 2268.2 | 2268.2 | 2268.2 | 2268.2 | 2268.2 | 2268.2 | 2268.2 |
| 2.5°  | 2270.4  | 2251.3 | 2218.4 | 2182.3 | 2156.8 | 2130.3 | 2109.0 | 2099.5 | 2088.9 | 2081.4 | 2091.0 |
| 5°    | 2266.1  | 2229.0 | 2165.3 | 2103.7 | 2059.1 | 2023.1 | 1993.3 | 1981.7 | 1970.0 | 1961.5 | 1960.4 |
| 7.5°  | 2303.3  | 2251.3 | 2153.6 | 2063.4 | 1994.4 | 1945.6 | 1905.2 | 1888.3 | 1874.5 | 1868.1 | 1862.8 |
| 10°   | 2374.4  | 2307.5 | 2177.0 | 2059.1 | 1970.0 | 1887.2 | 1800.2 | 1733.3 | 1689.8 | 1669.6 | 1662.2 |
| 12.5° | 2466.7  | 2382.9 | 2221.5 | 2081.4 | 1951.9 | 1792.7 | 1608.0 | 1448.8 | 1345.9 | 1311.9 | 1291.7 |
| 15°   | 2575.0  | 2471.0 | 2279.9 | 2110.1 | 1886.1 | 1595.3 | 1282.2 | 1074.2 | 978.6  | 959.5  | 938.3  |
| 17.5° | 2679.0  | 2564.4 | 2350.0 | 2115.4 | 1741.8 | 1274.8 | 939.4  | 798.2  | 761.0  | 773.8  | 777.0  |
| 20°   | 2770.3  | 2656.7 | 2419.0 | 2068.7 | 1479.6 | 956.3  | 727.1  | 692.0  | 705.8  | 730.3  | 734.5  |
| 22.5° | 2862.6  | 2745.9 | 2482.6 | 1945.6 | 1144.2 | 726.0  | 654.9  | 663.4  | 677.2  | 701.6  | 705.8  |
| 25°   | 2975.1  | 2854.1 | 2542.1 | 1719.5 | 858.7  | 617.7  | 622.0  | 634.7  | 648.5  | 670.8  | 672.9  |
| 27.5° | 3104.6  | 2991.1 | 2581.4 | 1425.5 | 636.8  | 567.9  | 581.7  | 600.8  | 614.6  | 635.8  | 640.0  |
| 30°   | 3276.6  | 3171.5 | 2594.1 | 1120.9 | 533.9  | 523.3  | 529.6  | 553.0  | 573.2  | 592.3  | 595.5  |
| 32.5° | 3437.9  | 3349.8 | 2551.6 | 845.9  | 494.6  | 481.9  | 481.9  | 495.7  | 519.0  | 537.1  | 541.3  |
| 35°   | 3586.5  | 3529.2 | 2415.8 | 618.8  | 464.9  | 443.7  | 433.1  | 433.1  | 447.9  | 462.8  | 467.0  |
| 37.5° | 3782.9  | 3780.8 | 2196.1 | 493.6  | 436.2  | 411.8  | 389.5  | 372.6  | 367.2  | 370.4  | 372.6  |
| 40°   | 4119.4  | 4122.5 | 1909.5 | 442.6  | 411.8  | 378.9  | 345.0  | 314.2  | 285.5  | 276.0  | 274.9  |
| 42.5° | 4644.8  | 4597.0 | 1609.1 | 418.2  | 390.6  | 345.0  | 294.0  | 252.6  | 208.0  | 194.2  | 193.2  |
| 45°   | 5479.0  | 5195.6 | 1290.7 | 395.9  | 368.3  | 306.7  | 243.1  | 186.8  | 150.7  | 140.1  | 140.1  |
| 47.5° | 6694.3  | 5982.1 | 999.9  | 371.5  | 338.6  | 263.2  | 183.6  | 134.8  | 110.4  | 105.1  | 106.1  |
| 50°   | 7951.1  | 6752.7 | 766.3  | 340.7  | 302.5  | 217.6  | 135.9  | 97.7   | 83.9   | 83.9   | 84.9   |
| 52.5° | 9065.5  | 7317.4 | 597.6  | 307.8  | 257.9  | 170.9  | 103.0  | 76.4   | 70.1   | 69.0   | 70.1   |
| 55°   | 10108.9 | 7681.5 | 457.5  | 269.6  | 204.9  | 127.4  | 78.5   | 62.6   | 58.4   | 56.3   | 55.2   |
| 57.5° | 11115.1 | 7861.9 | 342.8  | 217.6  | 148.6  | 92.3   | 62.6   | 53.1   | 48.8   | 45.6   | 44.6   |
| 60°   | 11784.9 | 7715.4 | 235.6  | 160.3  | 103.0  | 66.9   | 52.0   | 45.6   | 40.3   | 37.1   | 36.1   |
| 62.5° | 12162.7 | 7315.3 | 151.8  | 115.7  | 73.2   | 49.9   | 41.4   | 38.2   | 30.8   | 27.6   | 27.6   |
| 65°   | 12009.9 | 6655.1 | 106.1  | 82.8   | 53.1   | 37.1   | 30.8   | 30.8   | 22.3   | 18.0   | 17.0   |
| 67.5° | 10642.8 | 5622.3 | 80.7   | 61.6   | 38.2   | 27.6   | 23.4   | 26.5   | 13.8   | 8.5    | 8.5    |
| 69°   | 9156.8  | 4659.6 | 69.0   | 50.9   | 31.8   | 22.3   | 20.2   | 24.4   | 9.6    | 6.4    | 5.3    |
| 70°   | 7958.5  | 4019.6 | 62.6   | 44.6   | 26.5   | 19.1   | 18.0   | 23.4   | 9.6    | 5.3    | 4.2    |
| 72.5° | 4761.5  | 2241.7 | 47.8   | 31.8   | 17.0   | 14.9   | 14.9   | 26.5   | 9.6    | 5.3    | 4.2    |
| 75°   | 1924.3  | 789.7  | 35.0   | 22.3   | 12.7   | 12.7   | 18.0   | 34.0   | 8.5    | 4.2    | 3.2    |
| 77.5° | 436.2   | 173.0  | 20.2   | 13.8   | 8.5    | 12.7   | 21.2   | 26.5   | 5.3    | 2.1    | 0.0    |
| 80°   | 106.1   | 42.5   | 12.7   | 8.5    | 5.3    | 9.6    | 15.9   | 14.9   | 1.1    | 0.0    | 0.0    |
| 82.5° | 35.0    | 14.9   | 5.3    | 4.2    | 1.1    | 3.2    | 7.4    | 4.2    | 0.0    | 0.0    | 0.0    |
| 85°   | 14.9    | 8.5    | 2.1    | 1.1    | 0.0    | 0.0    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 9.6     | 3.2    | 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)