

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: P383520

Luminaire Tested: **GAN-SA8A-735-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383520  
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-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 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: 25217 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

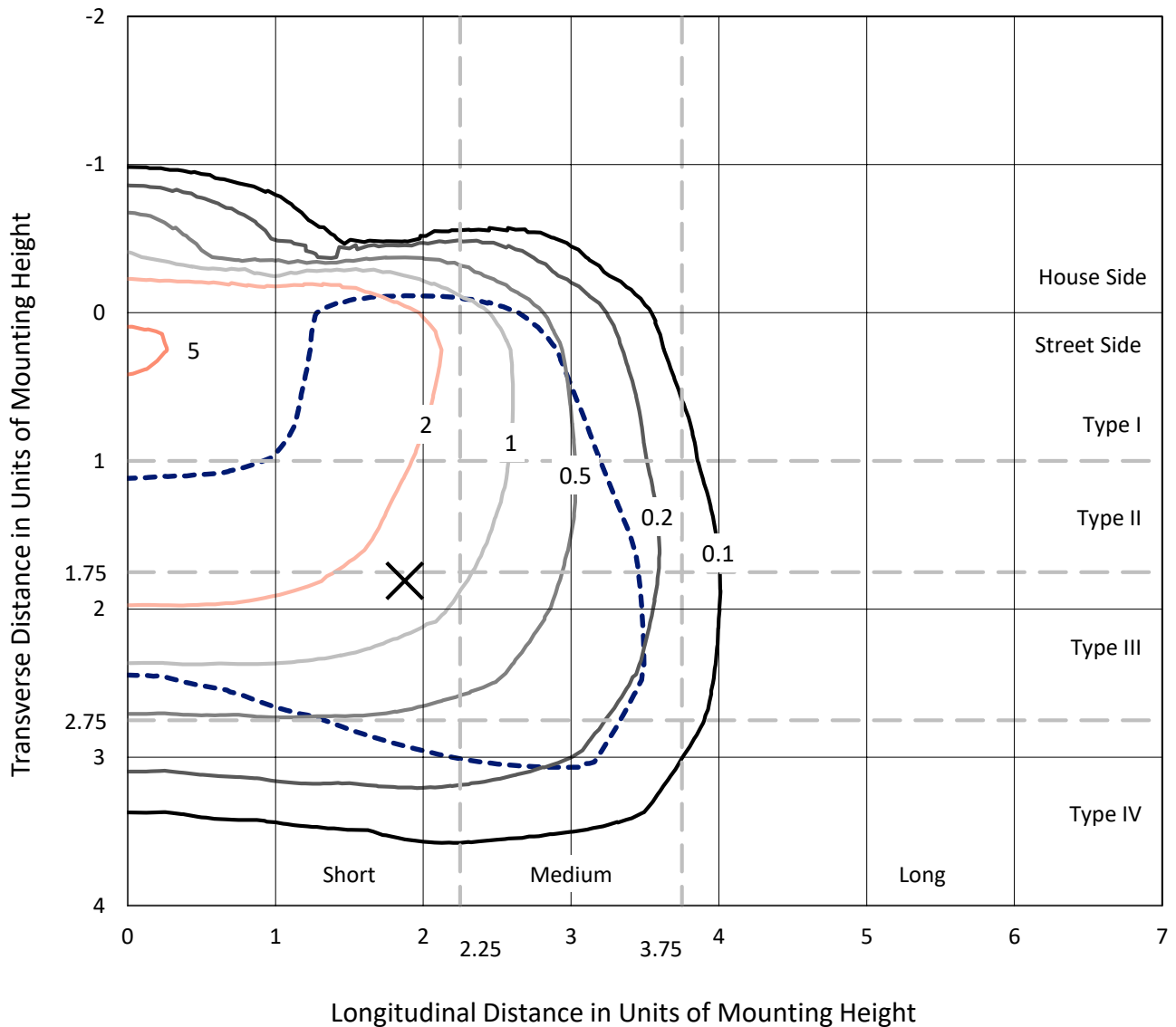
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

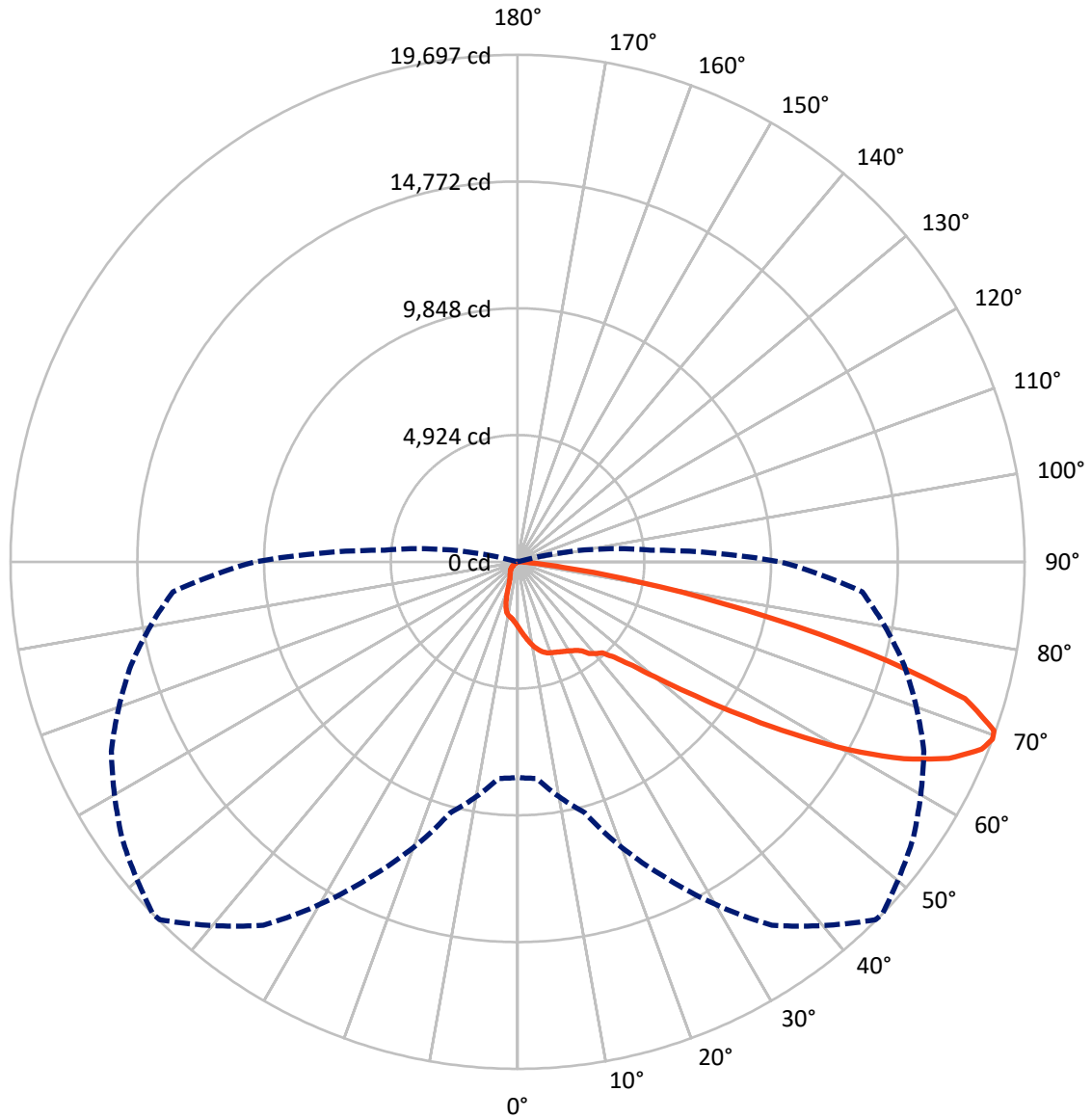
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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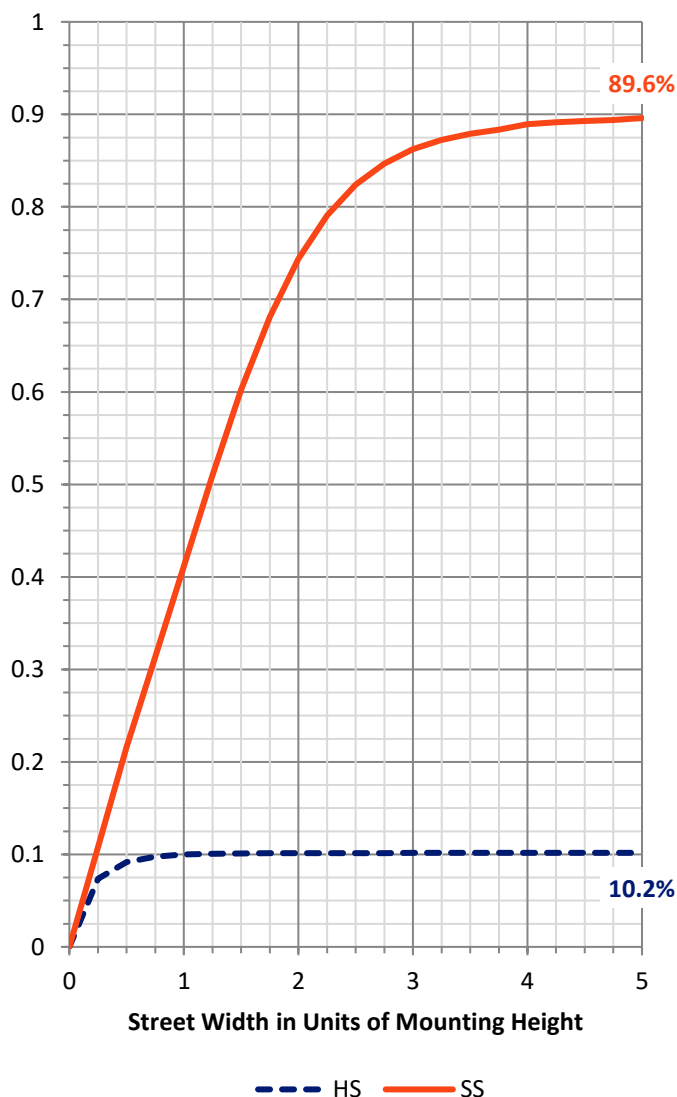
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2588.0   | 0.0    | 2588.0  |
|                    | % Fixture | 10.3     | 0.0    | 10.3    |
| <b>Street Side</b> | Lumens    | 22629.1  | 0.0    | 22629.1 |
|                    | % Fixture | 89.7     | 0.0    | 89.7    |
| <b>Total</b>       | Lumens    | 25217.0  | 0.0    | 25217.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 251.5   | 1.0       |
| 10°-20°   | 763.0   | 3.0       |
| 20°-30°   | 1199.9  | 4.8       |
| 30°-40°   | 1720.6  | 6.8       |
| 40°-50°   | 2973.9  | 11.8      |
| 50°-60°   | 5875.2  | 23.3      |
| 60°-70°   | 8211.1  | 32.6      |
| 70°-80°   | 3966.9  | 15.7      |
| 80°-90°   | 255.0   | 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°    | 25217.0 | 100.0     |
| 0°-180°   | 25217.0 | 100.0     |

**Coefficient of Utilization**

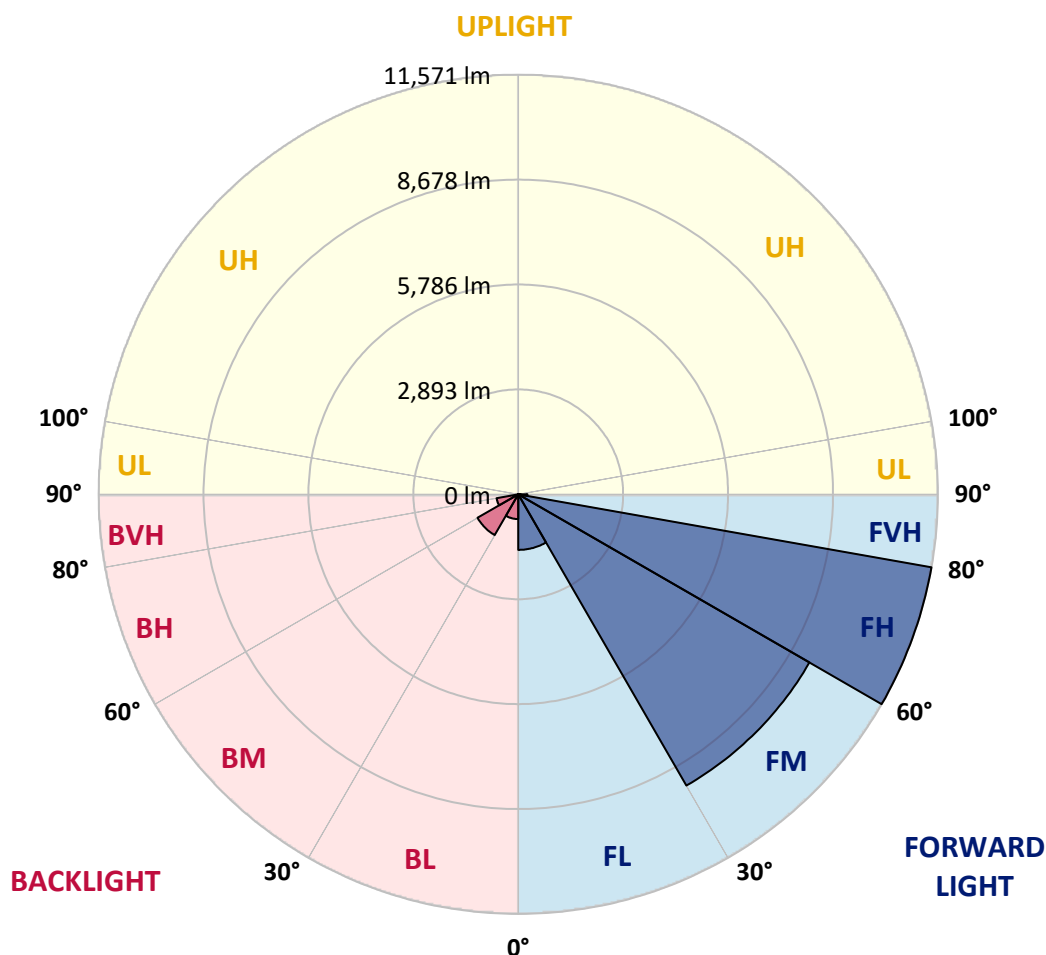


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1532.2  | 6.1       |                         |      |          |
| FM (30°-60°)   | 9272.8  | 36.8      |                         |      |          |
| FH (60°-80°)   | 11571.1 | 45.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 252.8   | 1.0       |                         |      | G3/500   |
| BL (0°-30°)    | 682.1   | 2.7       | B2/1000                 |      |          |
| BM (30°-60°)   | 1296.9  | 5.1       | B2/2500                 |      |          |
| BH (60°-80°)   | 606.8   | 2.4       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 2.1     | 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°    | 2526.6  | 2526.6  | 2526.6  | 2526.6  | 2526.6  | 2526.6  | 2526.6  | 2526.6  | 2526.6  | 2526.6  | 2526.6  |
| 2.5°  | 2806.8  | 2803.3  | 2786.7  | 2779.6  | 2739.5  | 2715.8  | 2706.3  | 2676.8  | 2634.2  | 2591.7  | 2544.4  |
| 5°    | 3126.1  | 3124.9  | 3094.1  | 3064.6  | 2989.0  | 2918.0  | 2905.0  | 2836.4  | 2740.6  | 2650.8  | 2560.9  |
| 7.5°  | 3452.4  | 3437.0  | 3406.3  | 3349.6  | 3239.5  | 3126.1  | 3115.5  | 3018.5  | 2882.5  | 2752.4  | 2623.6  |
| 10°   | 3729.1  | 3719.7  | 3679.4  | 3593.1  | 3464.2  | 3335.4  | 3322.4  | 3202.9  | 3049.2  | 2889.7  | 2725.2  |
| 12.5° | 3944.3  | 3937.2  | 3884.0  | 3776.4  | 3639.2  | 3505.6  | 3487.9  | 3381.5  | 3217.1  | 3038.6  | 2844.7  |
| 15°   | 4075.5  | 4072.0  | 4007.0  | 3892.3  | 3757.5  | 3641.6  | 3626.2  | 3532.8  | 3380.3  | 3193.5  | 2974.7  |
| 17.5° | 4106.3  | 4107.5  | 4040.0  | 3924.1  | 3813.0  | 3730.3  | 3718.5  | 3647.5  | 3519.9  | 3334.2  | 3104.8  |
| 20°   | 4037.7  | 4051.9  | 3991.6  | 3891.1  | 3822.5  | 3778.7  | 3769.3  | 3726.7  | 3619.2  | 3444.1  | 3208.8  |
| 22.5° | 3940.7  | 3947.8  | 3906.4  | 3839.0  | 3810.7  | 3819.0  | 3814.2  | 3790.6  | 3699.5  | 3538.8  | 3311.7  |
| 25°   | 3881.6  | 3881.6  | 3856.8  | 3800.1  | 3819.0  | 3869.7  | 3871.0  | 3866.2  | 3794.1  | 3654.6  | 3437.0  |
| 27.5° | 3879.2  | 3872.2  | 3843.8  | 3801.2  | 3853.3  | 3931.2  | 3936.0  | 3967.9  | 3923.0  | 3795.3  | 3593.1  |
| 30°   | 3973.8  | 3965.5  | 3905.2  | 3849.7  | 3915.9  | 3999.9  | 4011.6  | 4081.4  | 4058.9  | 3947.8  | 3766.9  |
| 32.5° | 4194.9  | 4165.3  | 4031.7  | 3940.7  | 3990.4  | 4090.9  | 4106.3  | 4217.4  | 4252.9  | 4135.8  | 3934.8  |
| 35°   | 4497.6  | 4404.2  | 4211.4  | 4113.3  | 4118.1  | 4223.3  | 4237.5  | 4400.6  | 4505.9  | 4308.4  | 4064.9  |
| 37.5° | 4914.9  | 4868.8  | 4555.5  | 4293.0  | 4314.4  | 4473.9  | 4515.3  | 4692.7  | 4663.1  | 4403.1  | 4212.6  |
| 40°   | 5830.1  | 5758.0  | 5424.6  | 4796.7  | 4502.4  | 4677.3  | 4690.3  | 4784.9  | 4787.3  | 4617.0  | 4520.1  |
| 42.5° | 7076.3  | 7046.7  | 6695.6  | 5710.7  | 4872.4  | 4813.3  | 4837.0  | 4996.5  | 5175.1  | 5068.6  | 5063.9  |
| 45°   | 8456.0  | 8440.7  | 8068.2  | 6923.7  | 5620.8  | 5259.1  | 5288.6  | 5502.6  | 5844.3  | 5867.9  | 6018.1  |
| 47.5° | 9566.2  | 9559.2  | 9345.2  | 8277.5  | 6766.5  | 6014.5  | 6024.0  | 6251.0  | 6851.6  | 7148.4  | 7388.4  |
| 50°   | 10578.4 | 10612.7 | 10443.6 | 9742.4  | 8327.2  | 7198.1  | 7175.6  | 7326.9  | 8291.7  | 8777.7  | 9075.6  |
| 52.5° | 11985.3 | 12033.8 | 11559.7 | 11109.2 | 9964.7  | 8666.5  | 8648.8  | 8807.2  | 10022.6 | 10386.8 | 10440.0 |
| 55°   | 13228.0 | 13145.2 | 12770.4 | 12640.4 | 11961.6 | 10480.2 | 10475.4 | 10615.0 | 11696.8 | 11851.7 | 11949.9 |
| 57.5° | 13776.6 | 13744.6 | 13925.5 | 14223.5 | 14053.2 | 12623.8 | 12613.2 | 12506.8 | 13194.8 | 13211.4 | 13512.9 |
| 60°   | 14123.0 | 14162.0 | 14716.5 | 15635.2 | 16059.6 | 14930.5 | 14861.9 | 14212.8 | 14625.5 | 14588.8 | 14911.6 |
| 62.5° | 13862.8 | 13939.7 | 14937.6 | 16468.7 | 17561.3 | 16944.0 | 16847.0 | 15775.9 | 15848.0 | 15721.5 | 16021.8 |
| 65°   | 12481.9 | 12601.3 | 14236.5 | 16311.5 | 18306.1 | 18517.7 | 18419.6 | 17155.7 | 16818.7 | 16610.6 | 16443.9 |
| 67.5° | 10135.0 | 10205.9 | 11913.2 | 14943.5 | 17970.3 | 19456.5 | 19436.4 | 18365.2 | 17551.8 | 16460.4 | 15167.0 |
| 69°   | 8375.6  | 8445.4  | 10088.8 | 13503.4 | 17231.3 | 19657.5 | 19696.5 | 18753.0 | 17412.2 | 15547.7 | 13438.4 |
| 70°   | 7094.0  | 7168.5  | 8699.6  | 12269.0 | 16374.2 | 19564.1 | 19633.9 | 18716.4 | 17012.6 | 14490.7 | 11921.5 |
| 72.5° | 3720.8  | 3784.7  | 5355.9  | 8452.5  | 13348.5 | 17964.4 | 18176.0 | 17134.4 | 14420.9 | 10524.0 | 7049.1  |
| 75°   | 1169.4  | 1206.0  | 2091.5  | 4418.4  | 9139.4  | 13968.1 | 14016.5 | 13440.7 | 10240.2 | 5788.7  | 2935.8  |
| 77.5° | 445.7   | 435.1   | 696.4   | 1628.1  | 4620.6  | 8795.4  | 9092.2  | 8399.3  | 5373.7  | 2046.6  | 677.5   |
| 80°   | 240.1   | 241.2   | 361.8   | 674.0   | 1976.8  | 4520.1  | 4770.7  | 4070.8  | 1909.5  | 638.5   | 156.0   |
| 82.5° | 104.1   | 108.8   | 203.4   | 357.1   | 908.1   | 1667.1  | 1792.4  | 1492.1  | 729.5   | 429.2   | 57.9    |
| 85°   | 22.5    | 24.9    | 98.1    | 193.9   | 370.1   | 468.2   | 490.6   | 483.6   | 464.7   | 333.4   | 22.5    |
| 87.5° | 0.0     | 0.0     | 43.8    | 69.8    | 93.4    | 106.4   | 93.4    | 121.8   | 256.5   | 224.7   | 11.8    |
| 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°    | 2526.6  | 2526.6 | 2526.6 | 2526.6 | 2526.6 | 2526.6 | 2526.6 | 2526.6 | 2526.6 | 2526.6 | 2526.6 |
| 2.5°  | 2529.1  | 2507.7 | 2471.1 | 2430.9 | 2402.5 | 2372.9 | 2349.3 | 2338.7 | 2326.8 | 2318.5 | 2329.2 |
| 5°    | 2524.3  | 2482.9 | 2412.0 | 2343.4 | 2293.7 | 2253.5 | 2220.4 | 2207.4 | 2194.4 | 2184.9 | 2183.7 |
| 7.5°  | 2565.7  | 2507.7 | 2398.9 | 2298.5 | 2221.6 | 2167.2 | 2122.3 | 2103.3 | 2088.0 | 2080.9 | 2075.0 |
| 10°   | 2644.8  | 2570.4 | 2425.0 | 2293.7 | 2194.4 | 2102.2 | 2005.2 | 1930.7 | 1882.3 | 1859.8 | 1851.5 |
| 12.5° | 2747.8  | 2654.4 | 2474.7 | 2318.5 | 2174.3 | 1997.0 | 1791.3 | 1613.9 | 1499.2 | 1461.3 | 1438.9 |
| 15°   | 2868.3  | 2752.4 | 2539.7 | 2350.5 | 2101.0 | 1777.0 | 1428.2 | 1196.5 | 1090.1 | 1068.9 | 1045.2 |
| 17.5° | 2984.2  | 2856.5 | 2617.6 | 2356.3 | 1940.2 | 1420.0 | 1046.4 | 889.1  | 847.7  | 862.0  | 865.5  |
| 20°   | 3085.9  | 2959.3 | 2694.5 | 2304.4 | 1648.2 | 1065.3 | 809.9  | 770.9  | 786.2  | 813.4  | 818.2  |
| 22.5° | 3188.8  | 3058.7 | 2765.5 | 2167.2 | 1274.5 | 808.7  | 729.5  | 739.0  | 754.4  | 781.6  | 786.2  |
| 25°   | 3314.1  | 3179.3 | 2831.7 | 1915.4 | 956.5  | 688.1  | 692.9  | 707.0  | 722.4  | 747.2  | 749.6  |
| 27.5° | 3458.4  | 3331.8 | 2875.4 | 1587.9 | 709.4  | 632.5  | 647.9  | 669.2  | 684.6  | 708.3  | 712.9  |
| 30°   | 3649.9  | 3532.8 | 2889.7 | 1248.6 | 594.7  | 582.9  | 589.9  | 616.0  | 638.5  | 659.7  | 663.3  |
| 32.5° | 3829.6  | 3731.4 | 2842.3 | 942.4  | 551.0  | 536.8  | 536.8  | 552.1  | 578.1  | 598.2  | 603.0  |
| 35°   | 3995.1  | 3931.2 | 2691.0 | 689.3  | 517.8  | 494.2  | 482.4  | 482.4  | 498.9  | 515.5  | 520.3  |
| 37.5° | 4213.9  | 4211.4 | 2446.2 | 549.8  | 485.9  | 458.8  | 433.9  | 415.0  | 409.0  | 412.7  | 415.0  |
| 40°   | 4588.6  | 4592.2 | 2127.0 | 493.1  | 458.8  | 422.1  | 384.3  | 350.0  | 318.0  | 307.4  | 306.2  |
| 42.5° | 5173.9  | 5120.7 | 1792.4 | 465.9  | 435.1  | 384.3  | 327.5  | 281.4  | 231.8  | 216.4  | 215.2  |
| 45°   | 6103.2  | 5787.5 | 1437.8 | 441.0  | 410.3  | 341.7  | 270.8  | 208.1  | 167.9  | 156.0  | 156.0  |
| 47.5° | 7456.9  | 6663.6 | 1113.8 | 413.8  | 377.2  | 293.3  | 204.6  | 150.2  | 123.0  | 117.1  | 118.2  |
| 50°   | 8856.9  | 7522.0 | 853.7  | 379.5  | 336.9  | 242.4  | 151.4  | 108.8  | 93.4   | 93.4   | 94.6   |
| 52.5° | 10098.3 | 8151.0 | 665.7  | 342.9  | 287.3  | 190.3  | 114.7  | 85.1   | 78.1   | 76.9   | 78.1   |
| 55°   | 11260.5 | 8556.5 | 509.6  | 300.3  | 228.2  | 141.9  | 87.5   | 69.8   | 65.0   | 62.7   | 61.5   |
| 57.5° | 12381.4 | 8757.6 | 381.9  | 242.4  | 165.5  | 102.8  | 69.8   | 59.2   | 54.4   | 50.9   | 49.7   |
| 60°   | 13127.5 | 8594.4 | 262.5  | 178.6  | 114.7  | 74.5   | 57.9   | 50.9   | 44.9   | 41.4   | 40.2   |
| 62.5° | 13548.3 | 8148.6 | 169.1  | 128.8  | 81.6   | 55.6   | 46.1   | 42.6   | 34.3   | 30.7   | 30.7   |
| 65°   | 13378.1 | 7413.3 | 118.2  | 92.2   | 59.2   | 41.4   | 34.3   | 34.3   | 24.9   | 20.1   | 18.9   |
| 67.5° | 11855.2 | 6262.8 | 89.9   | 68.6   | 42.6   | 30.7   | 26.0   | 29.5   | 15.4   | 9.5    | 9.5    |
| 69°   | 10200.0 | 5190.5 | 76.9   | 56.7   | 35.5   | 24.9   | 22.5   | 27.2   | 10.6   | 7.1    | 5.9    |
| 70°   | 8865.2  | 4477.5 | 69.8   | 49.7   | 29.5   | 21.2   | 20.1   | 26.0   | 10.6   | 5.9    | 4.8    |
| 72.5° | 5304.0  | 2497.1 | 53.2   | 35.5   | 18.9   | 16.6   | 16.6   | 29.5   | 10.6   | 5.9    | 4.8    |
| 75°   | 2143.6  | 879.7  | 39.0   | 24.9   | 14.2   | 14.2   | 20.1   | 37.8   | 9.5    | 4.8    | 3.5    |
| 77.5° | 485.9   | 192.7  | 22.5   | 15.4   | 9.5    | 14.2   | 23.7   | 29.5   | 5.9    | 2.3    | 0.0    |
| 80°   | 118.2   | 47.3   | 14.2   | 9.5    | 5.9    | 10.6   | 17.7   | 16.6   | 1.2    | 0.0    | 0.0    |
| 82.5° | 39.0    | 16.6   | 5.9    | 4.8    | 1.2    | 3.5    | 8.3    | 4.8    | 0.0    | 0.0    | 0.0    |
| 85°   | 16.6    | 9.5    | 2.3    | 1.2    | 0.0    | 0.0    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 10.6    | 3.5    | 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)