

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: P194373

Luminaire Tested: **GAN-AF-05-LED-U-SL2-7060-600-HSS-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194373  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
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-SL2-7060-600-HSS-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16236 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 162  
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

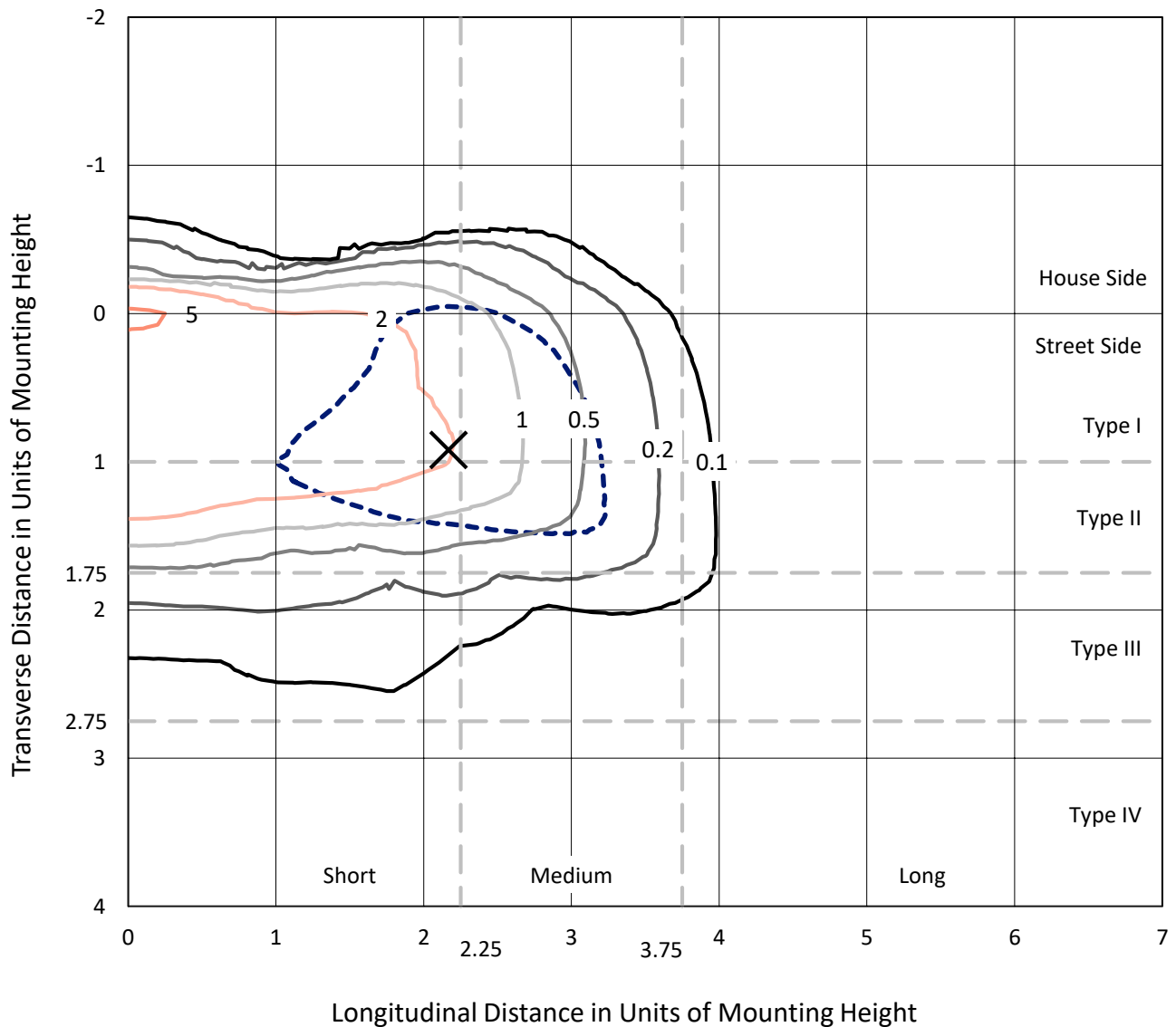


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

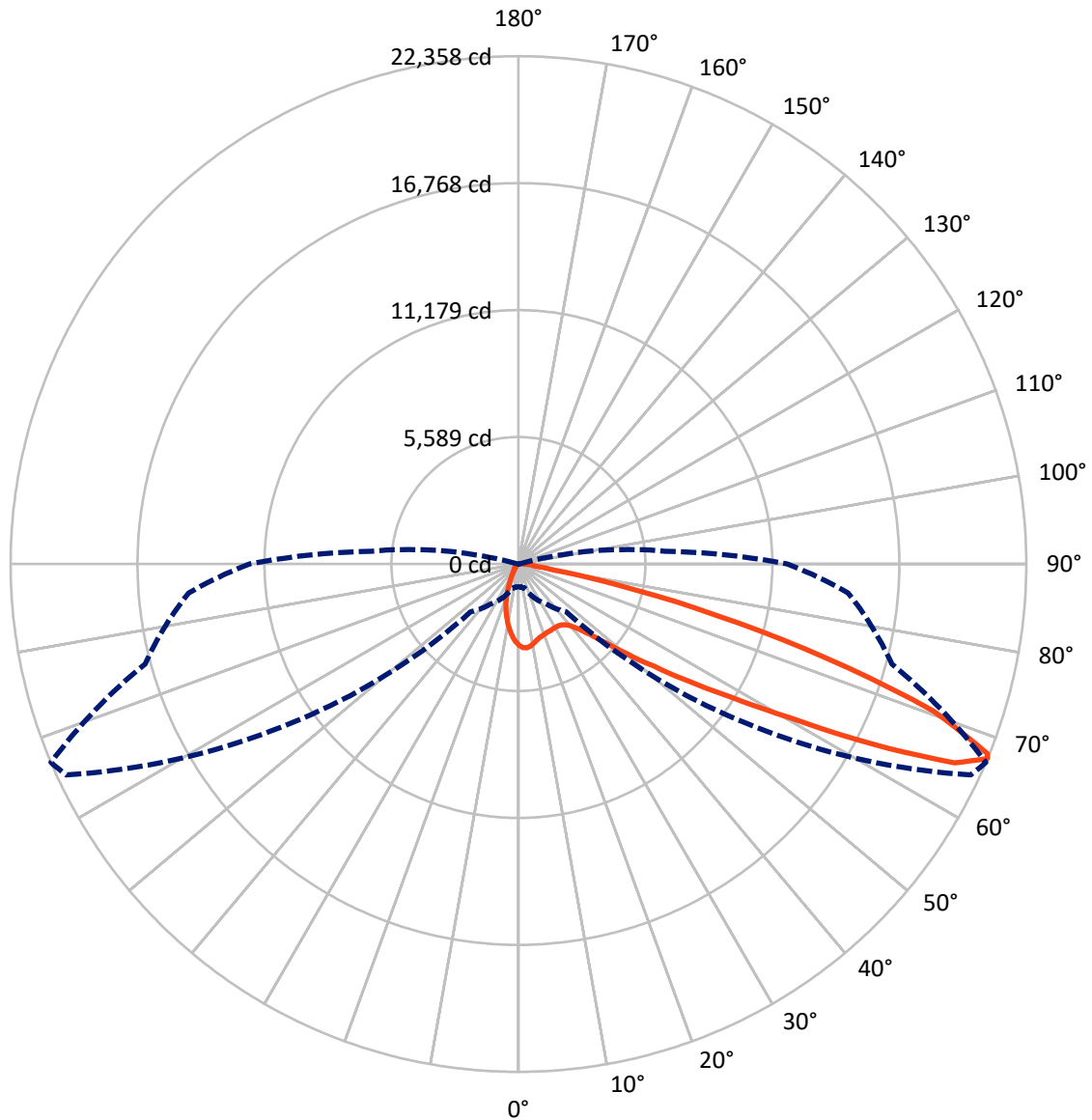


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1685.8   | 0.0    | 1685.8  |
|                    | % Fixture | 10.4     | 0.0    | 10.4    |
| <b>Street Side</b> | Lumens    | 14550.2  | 0.0    | 14550.2 |
|                    | % Fixture | 89.6     | 0.0    | 89.6    |
| <b>Total</b>       | Lumens    | 16236.0  | 0.0    | 16236.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 291.4   | 1.8       |
| 10°-20°   | 620.1   | 3.8       |
| 20°-30°   | 901.6   | 5.6       |
| 30°-40°   | 1406.5  | 8.7       |
| 40°-50°   | 2491.5  | 15.3      |
| 50°-60°   | 3942.6  | 24.3      |
| 60°-70°   | 4515.7  | 27.8      |
| 70°-80°   | 1873.1  | 11.5      |
| 80°-90°   | 193.5   | 1.2       |
| 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°    | 16236.0 | 100.0     |
| 0°-180°   | 16236.0 | 100.0     |

**Coefficient of Utilization**



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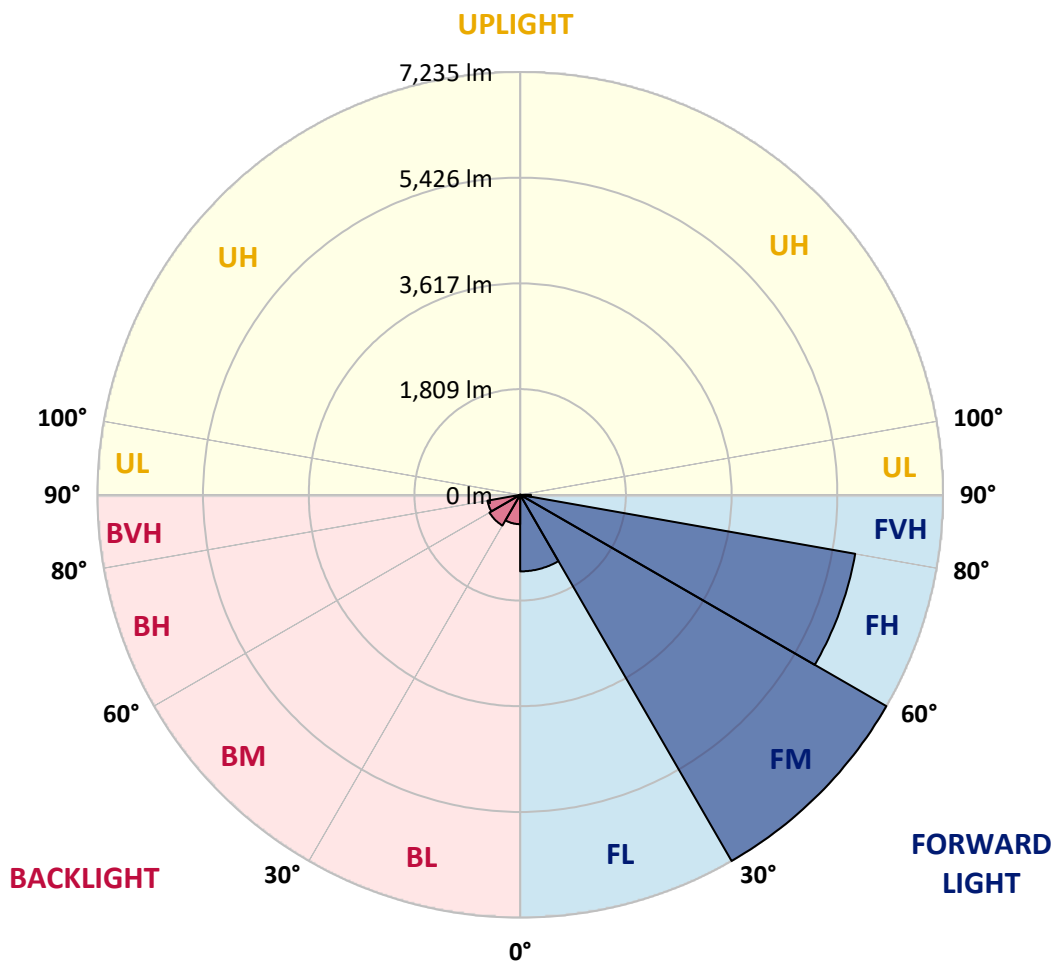
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1310.0 | 8.1       |                         |      |         |
| FM (30°-60°)   | 7234.8 | 44.6      |                         |      |         |
| FH (60°-80°)   | 5820.6 | 35.9      |                         |      | G3/7500 |
| FVH (80°-90°)  | 184.8  | 1.1       |                         |      | G2/225  |
| BL (0°-30°)    | 503.0  | 3.1       | B2/1000                 |      |         |
| BM (30°-60°)   | 605.9  | 3.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 568.2  | 3.5       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 8.7    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 3580.6 | 3580.6 | 3580.6 | 3580.6 | 3580.6 | 3580.6  | 3580.6  | 3580.6  | 3580.6  | 3580.6  | 3580.6  |
| 2.5°  | 3701.9 | 3709.4 | 3708.5 | 3714.2 | 3727.4 | 3728.4  | 3715.1  | 3689.5  | 3683.9  | 3650.7  | 3592.9  |
| 5°    | 3414.0 | 3435.7 | 3449.0 | 3503.0 | 3563.6 | 3636.5  | 3691.4  | 3711.3  | 3708.5  | 3684.8  | 3597.7  |
| 7.5°  | 3085.4 | 3107.1 | 3122.3 | 3185.7 | 3266.2 | 3391.2  | 3534.2  | 3651.7  | 3662.1  | 3687.6  | 3593.9  |
| 10°   | 2866.6 | 2870.4 | 2891.2 | 2951.8 | 3036.1 | 3164.0  | 3334.4  | 3539.9  | 3571.2  | 3664.9  | 3584.4  |
| 12.5° | 2686.7 | 2689.5 | 2717.0 | 2782.3 | 2872.3 | 3001.1  | 3180.1  | 3417.8  | 3466.0  | 3636.5  | 3582.5  |
| 15°   | 2558.8 | 2569.2 | 2593.9 | 2662.0 | 2757.7 | 2885.5  | 3069.3  | 3327.8  | 3385.6  | 3626.1  | 3599.6  |
| 17.5° | 2516.2 | 2527.6 | 2535.1 | 2584.4 | 2671.5 | 2796.5  | 2985.0  | 3269.1  | 3334.4  | 3631.8  | 3632.7  |
| 20°   | 2560.7 | 2569.2 | 2552.2 | 2564.5 | 2618.5 | 2730.2  | 2913.9  | 3218.9  | 3296.5  | 3638.4  | 3675.3  |
| 22.5° | 2726.4 | 2730.2 | 2683.8 | 2629.8 | 2620.4 | 2681.9  | 2858.1  | 3179.1  | 3262.4  | 3656.4  | 3725.5  |
| 25°   | 3010.5 | 3003.9 | 2928.1 | 2811.7 | 2701.8 | 2673.4  | 2824.9  | 3154.5  | 3245.4  | 3675.3  | 3777.6  |
| 27.5° | 3353.4 | 3362.8 | 3258.7 | 3089.1 | 2879.9 | 2730.2  | 2820.2  | 3144.1  | 3237.8  | 3688.6  | 3823.1  |
| 30°   | 3770.0 | 3783.3 | 3664.0 | 3450.9 | 3150.7 | 2870.4  | 2863.8  | 3142.2  | 3233.1  | 3680.1  | 3826.9  |
| 32.5° | 4195.2 | 4211.3 | 4117.6 | 3897.9 | 3512.5 | 3105.2  | 2962.2  | 3163.0  | 3242.6  | 3650.7  | 3805.1  |
| 35°   | 4640.3 | 4663.1 | 4600.6 | 4412.1 | 4003.0 | 3444.3  | 3135.5  | 3226.5  | 3287.1  | 3647.9  | 3783.3  |
| 37.5° | 5254.9 | 5275.8 | 5158.4 | 4958.5 | 4596.8 | 3898.8  | 3414.0  | 3345.8  | 3392.2  | 3693.3  | 3789.0  |
| 40°   | 6172.6 | 6169.8 | 5866.7 | 5560.8 | 5249.3 | 4476.5  | 3805.1  | 3561.7  | 3585.4  | 3830.6  | 3859.1  |
| 42.5° | 7172.6 | 7167.9 | 6720.0 | 6255.0 | 5973.7 | 5187.7  | 4319.3  | 3934.8  | 3918.7  | 4083.5  | 4040.9  |
| 45°   | 7943.5 | 7942.6 | 7577.0 | 7053.3 | 6845.9 | 6004.0  | 4984.1  | 4453.8  | 4429.2  | 4494.5  | 4376.1  |
| 47.5° | 8272.1 | 8277.8 | 8094.1 | 7725.7 | 7812.8 | 7108.2  | 5822.2  | 5205.7  | 5168.8  | 5142.3  | 4962.3  |
| 50°   | 8016.4 | 8027.8 | 8042.9 | 7971.0 | 8522.1 | 8592.2  | 6946.3  | 6265.4  | 6247.4  | 6129.0  | 5847.8  |
| 52.5° | 7181.2 | 7238.9 | 7417.0 | 7645.2 | 8768.3 | 10016.5 | 8708.7  | 7581.7  | 7485.2  | 7359.2  | 7049.5  |
| 55°   | 5773.9 | 5837.4 | 6175.4 | 6729.4 | 8401.9 | 10952.1 | 11178.5 | 9278.8  | 9117.8  | 8741.8  | 8294.8  |
| 57.5° | 3821.2 | 3919.7 | 4410.2 | 5114.8 | 7337.4 | 11102.7 | 13642.6 | 11634.0 | 11073.4 | 10044.0 | 9540.2  |
| 60°   | 2105.2 | 2199.9 | 2732.1 | 3370.4 | 5299.5 | 10358.4 | 15299.9 | 14700.4 | 13709.8 | 11499.5 | 11052.5 |
| 62.5° | 1296.5 | 1347.6 | 1740.6 | 2334.4 | 3178.2 | 8175.5  | 15642.7 | 18553.8 | 17407.0 | 13373.6 | 12879.3 |
| 65°   | 1032.2 | 1054.0 | 1246.3 | 1908.2 | 2278.5 | 4862.9  | 14535.6 | 21491.4 | 21108.8 | 15642.7 | 14514.8 |
| 67°   | 1001.9 | 1010.5 | 1101.4 | 1638.3 | 2147.8 | 2981.2  | 12177.6 | 21969.6 | 22357.9 | 17015.8 | 14565.9 |
| 67.5° | 1008.6 | 1018.0 | 1104.2 | 1563.5 | 2144.0 | 2739.7  | 11365.0 | 21781.2 | 22271.7 | 17124.7 | 14339.6 |
| 70°   | 972.6  | 1001.9 | 1264.3 | 1562.6 | 2038.9 | 2276.6  | 6806.1  | 18872.0 | 19382.4 | 15911.6 | 12167.2 |
| 72.5° | 344.7  | 346.6  | 546.4  | 1264.3 | 2216.9 | 2301.2  | 3417.8  | 13834.8 | 14212.7 | 12171.9 | 8772.1  |
| 75°   | 204.6  | 174.2  | 181.8  | 359.9  | 2118.5 | 2234.9  | 1971.7  | 8840.3  | 8981.4  | 6974.7  | 4442.4  |
| 77.5° | 141.1  | 123.1  | 126.9  | 159.1  | 806.9  | 2203.7  | 1566.4  | 4610.0  | 4459.5  | 2446.1  | 946.1   |
| 80°   | 80.5   | 71.0   | 75.8   | 139.2  | 293.6  | 2056.0  | 1477.3  | 1869.4  | 1593.8  | 414.8   | 261.4   |
| 82.5° | 42.6   | 36.0   | 43.6   | 114.6  | 204.6  | 1281.3  | 1480.2  | 903.4   | 715.9   | 140.2   | 178.0   |
| 85°   | 15.2   | 12.3   | 20.8   | 78.6   | 136.4  | 393.0   | 1372.2  | 759.5   | 596.6   | 68.2    | 135.4   |
| 87.5° | 2.8    | 2.8    | 8.5    | 32.2   | 54.9   | 120.3   | 811.6   | 450.8   | 302.1   | 40.7    | 92.8    |
| 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°    | 3580.6  | 3580.6 | 3580.6 | 3580.6 | 3580.6 | 3580.6 | 3580.6 | 3580.6 | 3580.6 | 3580.6 | 3580.6 |
| 2.5°  | 3569.3  | 3528.6 | 3473.6 | 3406.4 | 3326.8 | 3256.8 | 3204.7 | 3150.7 | 3139.3 | 3120.4 | 3117.6 |
| 5°    | 3545.6  | 3475.5 | 3339.2 | 3182.9 | 3016.2 | 2865.6 | 2743.5 | 2634.6 | 2586.3 | 2544.6 | 2539.9 |
| 7.5°  | 3510.6  | 3405.4 | 3173.4 | 2921.5 | 2661.1 | 2424.3 | 2223.6 | 2081.5 | 1950.8 | 1888.3 | 1878.9 |
| 10°   | 3469.8  | 3319.3 | 2986.9 | 2637.4 | 2277.6 | 1943.3 | 1645.0 | 1394.9 | 1243.4 | 1153.5 | 1142.1 |
| 12.5° | 3432.0  | 3235.0 | 2796.5 | 2342.9 | 1864.7 | 1417.7 | 1034.1 | 795.5  | 636.4  | 572.0  | 564.4  |
| 15°   | 3414.0  | 3166.8 | 2618.5 | 2041.7 | 1432.8 | 902.5  | 565.4  | 437.5  | 385.4  | 370.3  | 369.3  |
| 17.5° | 3412.1  | 3109.0 | 2444.2 | 1730.2 | 1003.8 | 524.6  | 368.4  | 336.2  | 325.8  | 322.0  | 322.0  |
| 20°   | 3411.1  | 3054.1 | 2270.0 | 1407.3 | 637.3  | 349.4  | 306.8  | 299.3  | 291.7  | 286.9  | 286.9  |
| 22.5° | 3421.5  | 3004.9 | 2088.2 | 1077.7 | 401.5  | 283.2  | 269.9  | 262.3  | 252.9  | 246.2  | 245.3  |
| 25°   | 3432.0  | 2967.0 | 1902.5 | 767.1  | 290.7  | 246.2  | 233.0  | 222.5  | 209.3  | 200.8  | 199.8  |
| 27.5° | 3433.9  | 2919.6 | 1703.7 | 513.3  | 243.4  | 215.0  | 197.9  | 181.8  | 166.7  | 158.2  | 157.2  |
| 30°   | 3405.4  | 2840.1 | 1483.0 | 346.6  | 215.0  | 186.6  | 163.8  | 146.8  | 132.6  | 126.0  | 126.0  |
| 32.5° | 3349.6  | 2741.6 | 1240.6 | 261.4  | 191.3  | 160.0  | 135.4  | 119.3  | 109.9  | 107.0  | 106.1  |
| 35°   | 3299.4  | 2635.5 | 991.5  | 221.6  | 171.4  | 135.4  | 110.8  | 100.4  | 94.7   | 93.8   | 92.8   |
| 37.5° | 3270.0  | 2550.3 | 757.6  | 200.8  | 152.5  | 113.6  | 93.8   | 86.2   | 83.3   | 81.4   | 82.4   |
| 40°   | 3292.7  | 2479.3 | 559.7  | 183.7  | 133.5  | 94.7   | 79.5   | 75.8   | 72.9   | 72.0   | 72.0   |
| 42.5° | 3392.2  | 2467.0 | 415.7  | 168.6  | 115.5  | 78.6   | 69.1   | 66.3   | 64.4   | 63.4   | 64.4   |
| 45°   | 3653.6  | 2542.7 | 322.9  | 154.4  | 97.5   | 66.3   | 58.7   | 57.8   | 56.8   | 56.8   | 56.8   |
| 47.5° | 4046.6  | 2699.0 | 269.0  | 138.3  | 81.4   | 56.8   | 51.1   | 50.2   | 49.2   | 50.2   | 50.2   |
| 50°   | 4712.3  | 2985.0 | 240.5  | 122.2  | 67.2   | 48.3   | 43.6   | 43.6   | 43.6   | 43.6   | 44.5   |
| 52.5° | 5724.7  | 3547.5 | 221.6  | 106.1  | 54.9   | 40.7   | 36.9   | 36.9   | 37.9   | 37.9   | 38.8   |
| 55°   | 6852.6  | 4293.7 | 204.6  | 90.0   | 46.4   | 34.1   | 30.3   | 31.3   | 32.2   | 33.1   | 33.1   |
| 57.5° | 8076.1  | 5120.5 | 190.3  | 73.9   | 39.8   | 27.5   | 25.6   | 26.5   | 27.5   | 29.4   | 29.4   |
| 60°   | 9552.5  | 6015.4 | 169.5  | 57.8   | 33.1   | 21.8   | 19.9   | 21.8   | 24.6   | 26.5   | 27.5   |
| 62.5° | 11173.7 | 6881.0 | 143.0  | 45.5   | 27.5   | 17.0   | 16.1   | 19.9   | 23.7   | 25.6   | 26.5   |
| 65°   | 12281.7 | 7152.8 | 109.9  | 36.9   | 20.8   | 12.3   | 13.3   | 18.0   | 22.7   | 25.6   | 25.6   |
| 67°   | 11832.9 | 6485.1 | 90.0   | 31.3   | 17.0   | 9.5    | 12.3   | 18.0   | 22.7   | 24.6   | 25.6   |
| 67.5° | 11521.3 | 6223.7 | 86.2   | 30.3   | 16.1   | 9.5    | 12.3   | 18.0   | 22.7   | 25.6   | 25.6   |
| 70°   | 9374.4  | 4675.4 | 72.0   | 22.7   | 13.3   | 8.5    | 10.4   | 17.0   | 21.8   | 24.6   | 24.6   |
| 72.5° | 6513.5  | 2882.7 | 64.4   | 16.1   | 11.4   | 7.6    | 9.5    | 16.1   | 20.8   | 23.7   | 24.6   |
| 75°   | 3096.7  | 1043.6 | 54.9   | 12.3   | 10.4   | 6.6    | 8.5    | 16.1   | 20.8   | 23.7   | 23.7   |
| 77.5° | 631.7   | 242.4  | 44.5   | 10.4   | 8.5    | 6.6    | 7.6    | 15.2   | 19.9   | 22.7   | 22.7   |
| 80°   | 207.4   | 93.8   | 33.1   | 9.5    | 8.5    | 6.6    | 7.6    | 14.2   | 19.9   | 21.8   | 22.7   |
| 82.5° | 149.6   | 47.4   | 21.8   | 9.5    | 8.5    | 6.6    | 6.6    | 14.2   | 18.9   | 21.8   | 21.8   |
| 85°   | 114.6   | 33.1   | 14.2   | 9.5    | 8.5    | 6.6    | 6.6    | 13.3   | 18.0   | 20.8   | 20.8   |
| 87.5° | 75.8    | 13.3   | 11.4   | 9.5    | 8.5    | 6.6    | 6.6    | 13.3   | 17.0   | 19.9   | 20.8   |
| 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)