

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: P268358

Luminaire Tested: **GAN-AF-03-LED-U-SL3-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268358  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-03-LED-U-SL3-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17320.2 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 191  
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

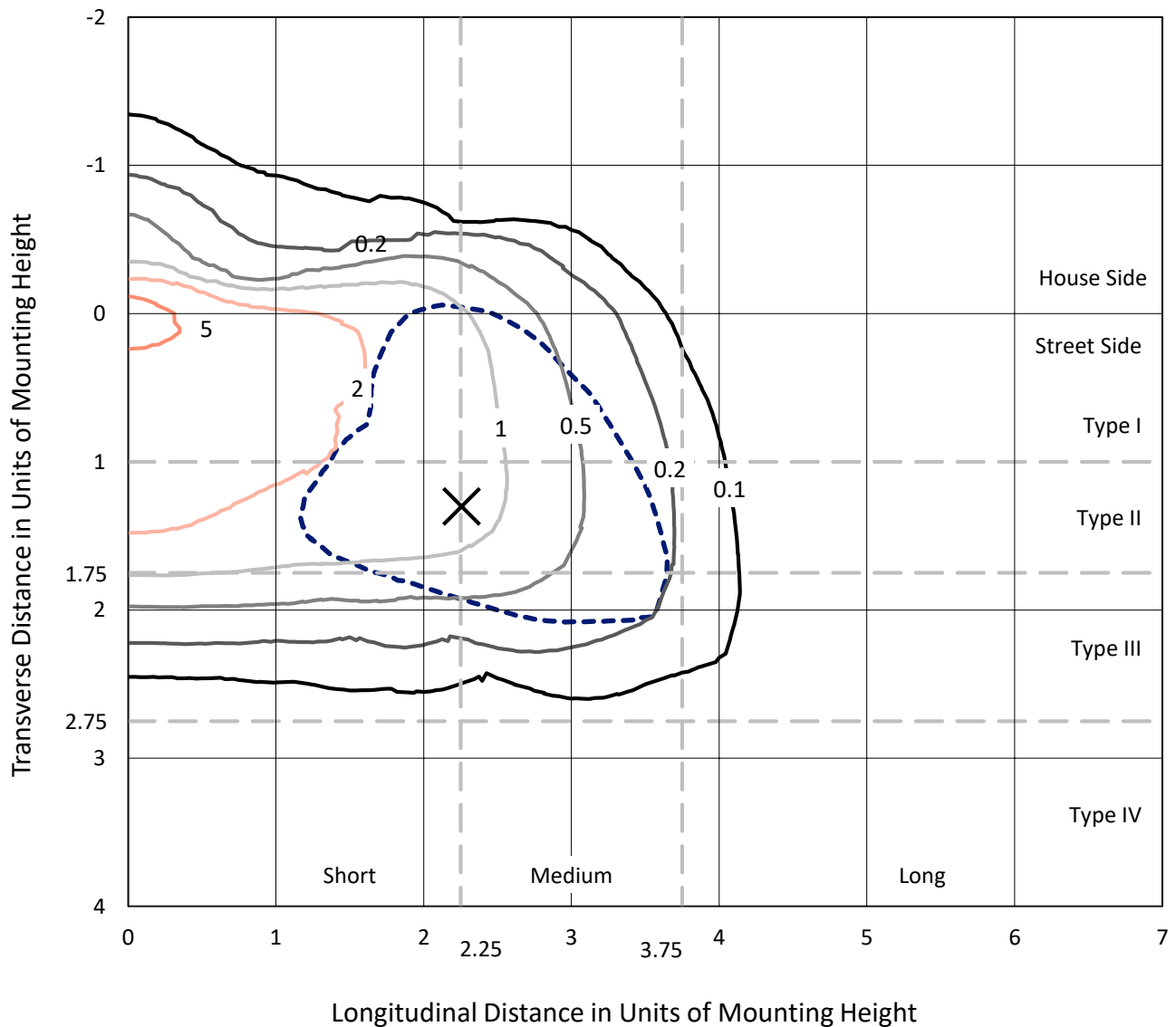


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

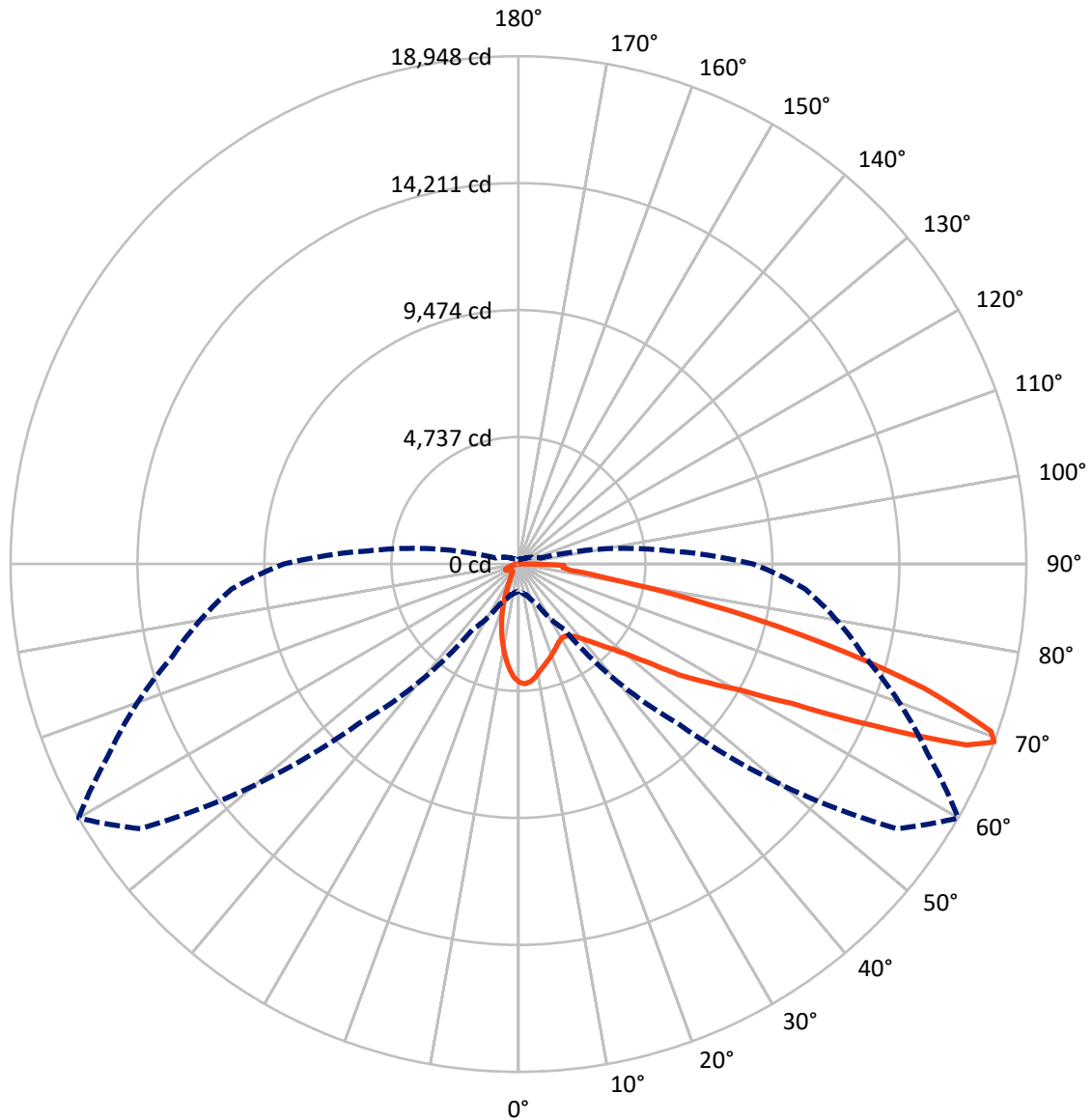


Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2464.1   | 0.0    | 2464.1  |
|                    | % Fixture | 14.2     | 0.0    | 14.2    |
| <b>Street Side</b> | Lumens    | 14856.1  | 0.0    | 14856.1 |
|                    | % Fixture | 85.8     | 0.0    | 85.8    |
| <b>Total</b>       | Lumens    | 17320.2  | 0.0    | 17320.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 373.2   | 2.2       |
| 10°-20°   | 795.1   | 4.6       |
| 20°-30°   | 1013.1  | 5.8       |
| 30°-40°   | 1392.7  | 8.0       |
| 40°-50°   | 2259.8  | 13.0      |
| 50°-60°   | 3624.1  | 20.9      |
| 60°-70°   | 4823.4  | 27.8      |
| 70°-80°   | 2604.3  | 15.0      |
| 80°-90°   | 434.5   | 2.5       |
| 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°    | 17320.2 | 100.0     |
| 0°-180°   | 17320.2 | 100.0     |

**Coefficient of Utilization**



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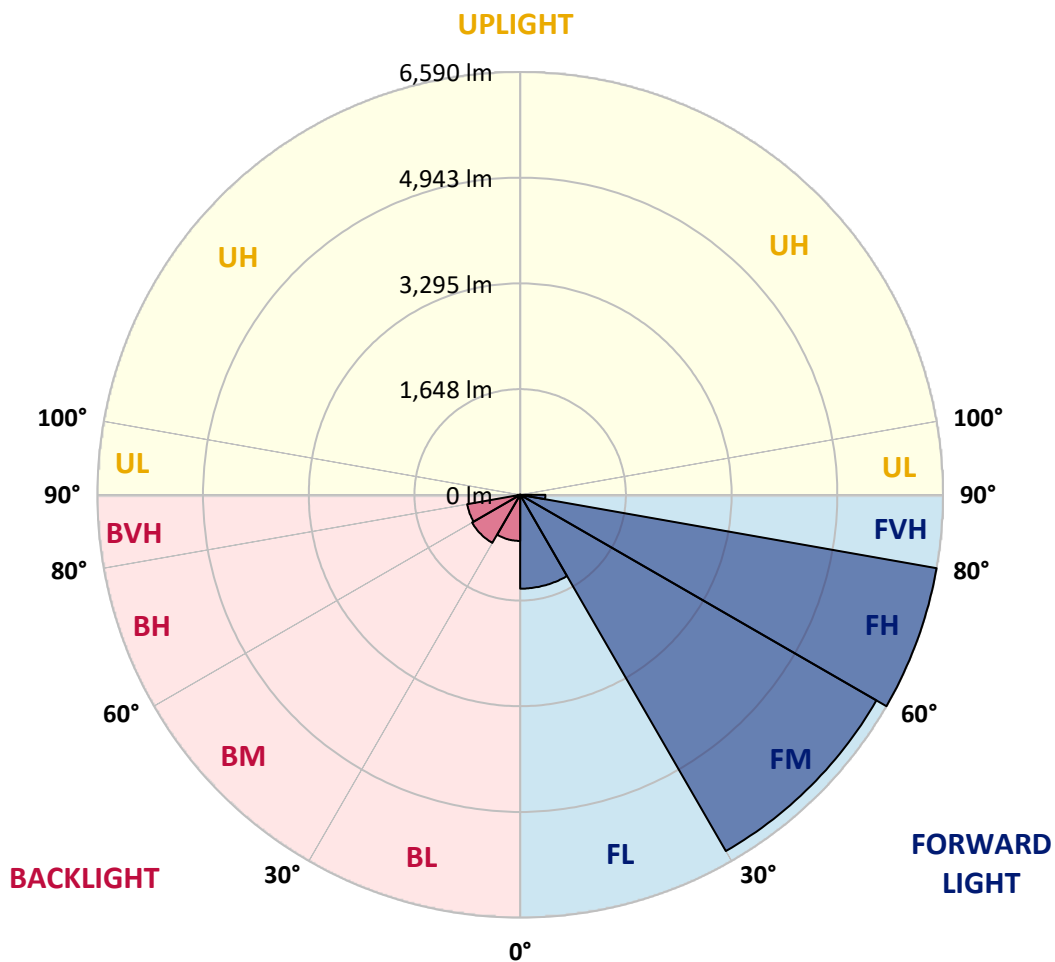
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1462.5 | 8.4       |                         |      |         |
| FM (30°-60°)   | 6410.9 | 37.0      |                         |      |         |
| FH (60°-80°)   | 6590.0 | 38.0      |                         |      | G3/7500 |
| FVH (80°-90°)  | 392.7  | 2.3       |                         |      | G3/500  |
| BL (0°-30°)    | 718.9  | 4.2       | B2/1000                 |      |         |
| BM (30°-60°)   | 865.7  | 5.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 837.7  | 4.8       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 41.8   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 60°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 4413.5 | 4413.5 | 4413.5 | 4413.5 | 4413.5 | 4413.5  | 4413.5  | 4413.5  | 4413.5  | 4413.5  | 4413.5  |
| 2.5°  | 4503.8 | 4513.9 | 4509.8 | 4507.2 | 4514.7 | 4502.9  | 4478.7  | 4471.1  | 4459.5  | 4431.9  | 4384.9  |
| 5°    | 4334.9 | 4365.0 | 4363.2 | 4385.9 | 4423.6 | 4433.6  | 4422.6  | 4424.3  | 4402.6  | 4368.3  | 4290.5  |
| 7.5°  | 4042.8 | 4055.4 | 4062.0 | 4111.5 | 4180.1 | 4235.1  | 4282.1  | 4297.1  | 4287.2  | 4257.8  | 4157.4  |
| 10°   | 3741.6 | 3751.6 | 3767.5 | 3825.3 | 3912.3 | 3988.5  | 4077.0  | 4128.2  | 4149.9  | 4144.9  | 4032.9  |
| 12.5° | 3483.1 | 3493.1 | 3514.0 | 3579.2 | 3683.1 | 3776.7  | 3905.7  | 3969.3  | 4021.1  | 4052.1  | 3931.5  |
| 15°   | 3251.3 | 3273.1 | 3293.1 | 3368.5 | 3484.7 | 3607.8  | 3753.3  | 3833.6  | 3913.9  | 3983.4  | 3842.1  |
| 17.5° | 3070.5 | 3092.3 | 3104.1 | 3172.6 | 3296.5 | 3447.1  | 3617.7  | 3712.3  | 3812.8  | 3926.5  | 3753.3  |
| 20°   | 2966.1 | 2976.1 | 2971.1 | 3009.5 | 3120.8 | 3280.6  | 3483.1  | 3592.7  | 3714.0  | 3873.0  | 3664.6  |
| 22.5° | 2936.6 | 2937.5 | 2919.1 | 2915.0 | 2987.0 | 3121.6  | 3339.2  | 3472.2  | 3621.1  | 3837.7  | 3588.5  |
| 25°   | 3007.9 | 3005.3 | 2955.2 | 2914.1 | 2921.6 | 3000.2  | 3200.3  | 3355.1  | 3543.4  | 3830.4  | 3529.9  |
| 27.5° | 3165.9 | 3173.5 | 3099.1 | 3022.1 | 2945.9 | 2943.4  | 3094.8  | 3258.1  | 3479.8  | 3864.6  | 3504.8  |
| 30°   | 3387.7 | 3400.3 | 3320.8 | 3222.8 | 3079.7 | 2961.8  | 3053.9  | 3200.3  | 3440.4  | 3935.7  | 3500.7  |
| 32.5° | 3630.3 | 3643.7 | 3583.5 | 3480.6 | 3293.1 | 3075.5  | 3082.4  | 3205.3  | 3438.7  | 4035.2  | 3529.1  |
| 35°   | 3888.9 | 3903.9 | 3873.0 | 3785.9 | 3577.6 | 3285.6  | 3191.0  | 3286.4  | 3493.1  | 4187.5  | 3605.2  |
| 37.5° | 4177.5 | 4201.0 | 4209.3 | 4126.5 | 3903.9 | 3562.6  | 3369.4  | 3440.4  | 3616.0  | 4399.2  | 3744.9  |
| 40°   | 4593.4 | 4625.9 | 4623.4 | 4504.6 | 4277.9 | 3936.6  | 3644.6  | 3663.0  | 3807.6  | 4682.1  | 3968.4  |
| 42.5° | 5389.8 | 5396.6 | 5188.3 | 4929.7 | 4689.5 | 4329.8  | 3969.3  | 3954.1  | 4072.0  | 5040.1  | 4297.1  |
| 45°   | 6403.1 | 6375.5 | 5911.9 | 5412.5 | 5119.6 | 4781.6  | 4391.8  | 4318.1  | 4407.7  | 5476.8  | 4708.7  |
| 47.5° | 7243.9 | 7180.3 | 6594.6 | 5905.3 | 5574.7 | 5272.7  | 4887.9  | 4759.0  | 4808.4  | 5972.2  | 5240.9  |
| 50°   | 7535.9 | 7488.2 | 7002.9 | 6315.3 | 6005.7 | 5871.9  | 5498.6  | 5316.2  | 5329.6  | 6562.8  | 5864.2  |
| 52.5° | 7473.2 | 7466.4 | 7142.7 | 6585.5 | 6408.9 | 6500.9  | 6363.8  | 6116.9  | 5986.3  | 7218.8  | 6537.0  |
| 55°   | 7325.0 | 7339.3 | 7222.2 | 6900.1 | 6869.9 | 7108.4  | 7494.1  | 7311.7  | 6905.9  | 7880.7  | 7232.3  |
| 57.5° | 6810.5 | 6847.3 | 7105.1 | 7295.8 | 7612.1 | 7966.8  | 8404.5  | 8352.5  | 7895.7  | 8596.1  | 8058.9  |
| 60°   | 5486.8 | 5572.2 | 6263.3 | 7218.8 | 8375.9 | 9485.4  | 9681.2  | 9560.8  | 8916.4  | 9483.6  | 9150.7  |
| 62.5° | 3844.6 | 3933.1 | 4754.8 | 6250.0 | 8250.5 | 11200.5 | 11963.5 | 11444.0 | 10382.3 | 10791.3 | 10563.9 |
| 65°   | 2058.2 | 2100.9 | 2728.4 | 4336.5 | 6965.3 | 11554.4 | 15299.5 | 14508.7 | 12703.2 | 12403.6 | 11772.8 |
| 67.5° | 1135.4 | 1158.9 | 1398.9 | 2189.6 | 4461.2 | 10174.8 | 17424.6 | 18021.9 | 15604.0 | 13477.1 | 11552.8 |
| 69°   | 1026.7 | 1048.3 | 1205.6 | 1658.4 | 2985.2 | 8412.7  | 17217.0 | 18948.0 | 16875.6 | 13370.9 | 10739.5 |
| 70°   | 1004.0 | 1024.1 | 1165.6 | 1528.6 | 2416.4 | 6934.3  | 16521.7 | 18711.3 | 17178.6 | 12990.2 | 10030.0 |
| 72.5° | 903.7  | 925.3  | 1062.5 | 1373.0 | 2064.9 | 3457.1  | 13087.2 | 15820.7 | 15596.5 | 11263.3 | 7607.8  |
| 75°   | 842.5  | 862.6  | 1095.3 | 1344.6 | 1977.1 | 2187.9  | 8627.9  | 11659.9 | 11465.0 | 7878.9  | 4102.2  |
| 77.5° | 360.6  | 359.0  | 507.8  | 1137.9 | 2006.4 | 2118.5  | 4636.1  | 7284.0  | 6645.8  | 3367.6  | 1178.0  |
| 80°   | 240.9  | 236.8  | 240.9  | 334.7  | 1839.9 | 2130.2  | 2428.8  | 3697.2  | 2792.8  | 858.4   | 580.7   |
| 82.5° | 207.5  | 204.2  | 211.7  | 204.2  | 646.8  | 2431.4  | 2064.9  | 1966.2  | 1327.9  | 487.8   | 287.7   |
| 85°   | 139.7  | 133.8  | 182.4  | 183.3  | 305.3  | 2160.3  | 2325.9  | 1660.7  | 1074.4  | 289.6   | 142.2   |
| 87.5° | 67.0   | 65.2   | 106.3  | 129.6  | 179.0  | 877.6   | 2609.5  | 1701.7  | 1083.4  | 148.1   | 67.7    |
| 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°    | 4413.5  | 4413.5 | 4413.5 | 4413.5 | 4413.5 | 4413.5 | 4413.5 | 4413.5 | 4413.5 | 4413.5 | 4413.5 |
| 2.5°  | 4370.8  | 4336.5 | 4303.1 | 4262.8 | 4221.0 | 4174.2 | 4150.8 | 4127.4 | 4121.5 | 4114.7 | 4091.3 |
| 5°    | 4250.3  | 4201.8 | 4118.1 | 4026.1 | 3928.9 | 3834.4 | 3762.6 | 3717.4 | 3683.1 | 3665.4 | 3634.5 |
| 7.5°  | 4094.7  | 4023.6 | 3877.2 | 3718.2 | 3555.0 | 3406.2 | 3277.2 | 3196.1 | 3119.2 | 3083.2 | 3042.1 |
| 10°   | 3946.7  | 3840.3 | 3612.8 | 3378.4 | 3144.2 | 2919.1 | 2707.5 | 2557.7 | 2424.6 | 2350.2 | 2297.5 |
| 12.5° | 3819.5  | 3673.8 | 3358.5 | 3041.3 | 2720.0 | 2399.6 | 2082.5 | 1833.1 | 1624.9 | 1515.3 | 1459.1 |
| 15°   | 3695.5  | 3519.9 | 3116.6 | 2714.1 | 2301.6 | 1865.8 | 1449.1 | 1166.3 | 994.0  | 925.3  | 902.0  |
| 17.5° | 3583.5  | 3358.5 | 2873.9 | 2384.6 | 1869.9 | 1342.8 | 973.9  | 818.3  | 752.2  | 729.6  | 722.1  |
| 20°   | 3462.2  | 3195.2 | 2622.2 | 2039.8 | 1419.9 | 938.8  | 760.5  | 692.0  | 665.1  | 658.5  | 655.1  |
| 22.5° | 3345.0  | 3034.7 | 2381.1 | 1670.8 | 1019.8 | 724.6  | 653.4  | 625.0  | 620.8  | 626.7  | 626.7  |
| 25°   | 3245.4  | 2890.7 | 2121.0 | 1285.1 | 748.8  | 609.9  | 584.8  | 578.1  | 594.0  | 615.8  | 620.0  |
| 27.5° | 3170.9  | 2772.8 | 1844.0 | 948.8  | 596.6  | 530.4  | 529.6  | 540.5  | 579.9  | 621.6  | 630.0  |
| 30°   | 3120.0  | 2660.6 | 1547.8 | 684.4  | 500.4  | 466.8  | 480.2  | 503.7  | 561.4  | 620.8  | 636.7  |
| 32.5° | 3094.0  | 2577.7 | 1239.1 | 529.6  | 428.4  | 409.9  | 432.5  | 461.0  | 518.0  | 573.1  | 594.0  |
| 35°   | 3114.2  | 2516.7 | 947.9  | 441.7  | 378.1  | 364.0  | 387.3  | 414.9  | 448.4  | 471.9  | 487.8  |
| 37.5° | 3189.4  | 2492.4 | 715.4  | 395.8  | 344.0  | 330.4  | 348.9  | 364.8  | 378.1  | 384.8  | 392.4  |
| 40°   | 3351.8  | 2518.4 | 573.1  | 372.3  | 324.6  | 307.8  | 315.5  | 321.2  | 329.7  | 336.3  | 339.6  |
| 42.5° | 3591.1  | 2596.2 | 513.7  | 363.2  | 314.5  | 290.3  | 288.6  | 291.2  | 302.0  | 314.5  | 317.1  |
| 45°   | 3925.7  | 2733.5 | 509.5  | 368.9  | 309.6  | 276.0  | 268.6  | 271.8  | 288.6  | 307.8  | 311.3  |
| 47.5° | 4353.1  | 2942.6 | 542.9  | 386.5  | 313.8  | 268.6  | 256.0  | 260.1  | 281.1  | 307.1  | 311.3  |
| 50°   | 4871.1  | 3234.5 | 599.1  | 412.5  | 332.2  | 270.2  | 251.9  | 254.3  | 276.0  | 304.5  | 308.7  |
| 52.5° | 5482.7  | 3648.7 | 660.2  | 437.6  | 351.3  | 281.1  | 255.2  | 249.3  | 269.4  | 294.6  | 299.6  |
| 55°   | 6162.9  | 4180.1 | 722.9  | 460.2  | 361.5  | 294.6  | 261.9  | 242.6  | 256.8  | 277.8  | 282.0  |
| 57.5° | 6997.9  | 4923.0 | 831.7  | 481.9  | 368.1  | 303.6  | 268.6  | 236.0  | 240.9  | 256.0  | 259.4  |
| 60°   | 8128.3  | 5973.9 | 1023.3 | 518.0  | 383.1  | 307.1  | 267.8  | 230.1  | 225.0  | 233.4  | 235.0  |
| 62.5° | 9482.9  | 7115.0 | 1183.1 | 563.1  | 408.3  | 309.6  | 262.8  | 226.0  | 211.7  | 211.7  | 213.3  |
| 65°   | 10286.9 | 7420.4 | 1094.3 | 600.7  | 429.2  | 307.1  | 256.8  | 221.7  | 201.6  | 192.4  | 193.2  |
| 67.5° | 9604.9  | 6526.0 | 937.9  | 608.2  | 428.4  | 295.4  | 247.7  | 214.2  | 191.6  | 177.3  | 176.5  |
| 69°   | 8750.7  | 5630.8 | 867.7  | 588.2  | 408.3  | 280.4  | 236.0  | 205.8  | 184.1  | 169.1  | 168.2  |
| 70°   | 8062.2  | 5084.4 | 821.6  | 566.4  | 386.5  | 269.4  | 226.7  | 198.3  | 178.3  | 164.0  | 162.4  |
| 72.5° | 5861.7  | 3331.6 | 701.9  | 486.9  | 318.8  | 226.0  | 195.8  | 174.0  | 159.0  | 150.6  | 148.8  |
| 75°   | 2929.3  | 1588.8 | 569.7  | 395.0  | 244.2  | 180.6  | 160.6  | 145.5  | 138.1  | 136.5  | 135.6  |
| 77.5° | 962.2   | 727.8  | 407.4  | 294.6  | 181.5  | 141.5  | 129.6  | 118.8  | 117.0  | 122.2  | 120.6  |
| 80°   | 528.8   | 423.3  | 258.5  | 194.9  | 123.8  | 103.8  | 102.0  | 96.2   | 98.8   | 107.1  | 105.5  |
| 82.5° | 269.4   | 220.1  | 159.8  | 117.0  | 83.6   | 74.5   | 81.1   | 77.9   | 81.1   | 88.8   | 87.9   |
| 85°   | 132.9   | 120.6  | 101.1  | 71.1   | 55.2   | 47.7   | 57.8   | 60.2   | 62.0   | 67.7   | 67.7   |
| 87.5° | 77.0    | 71.1   | 53.5   | 33.4   | 27.6   | 25.2   | 33.4   | 32.6   | 38.4   | 41.9   | 41.1   |
| 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)