

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: P191112

Luminaire Tested: **GAN-AF-04-LED-U-SL3-600-HSS-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191112  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-04-LED-U-SL3-600-HSS-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13826.2 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3

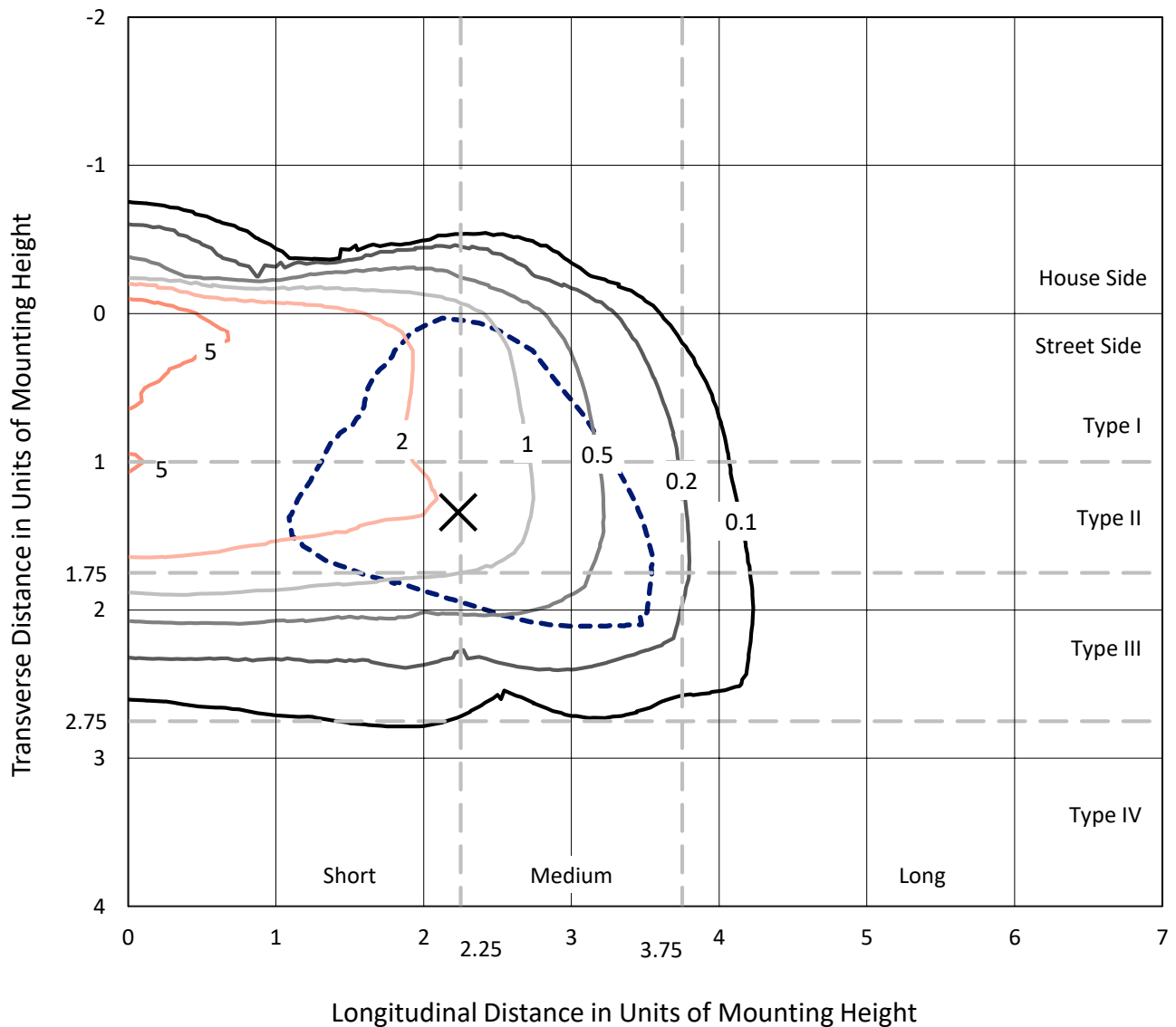
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

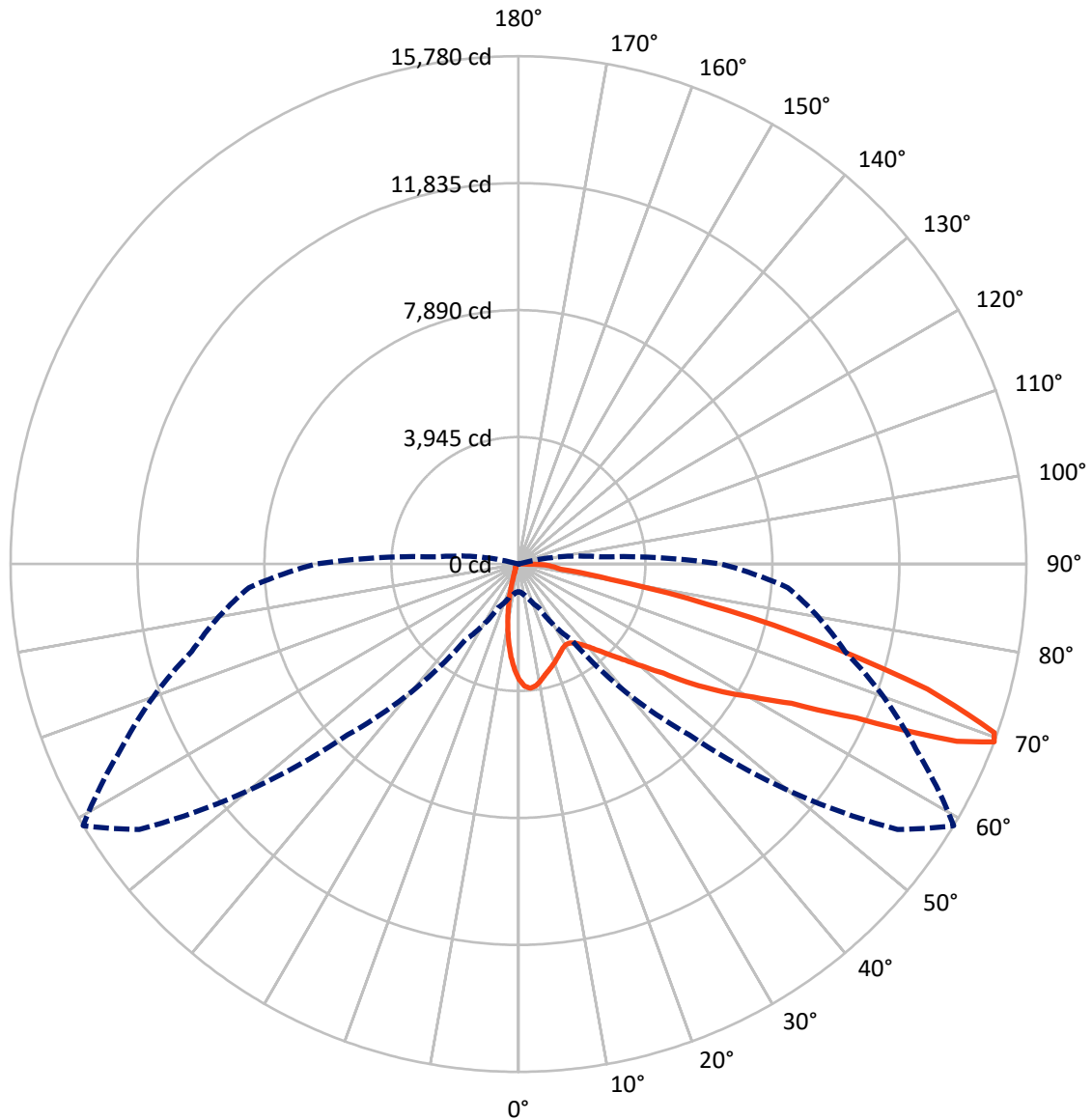


Based on 20 foot mounting height. Maximum calculated value = 9 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1126.0   | 0.0    | 1126.0  |
|                    | % Fixture | 8.1      | 0.0    | 8.1     |
| <b>Street Side</b> | Lumens    | 12700.2  | 0.0    | 12700.2 |
|                    | % Fixture | 91.9     | 0.0    | 91.9    |
| <b>Total</b>       | Lumens    | 13826.2  | 0.0    | 13826.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 292.1   | 2.1       |
| 10°-20°   | 603.6   | 4.4       |
| 20°-30°   | 812.2   | 5.9       |
| 30°-40°   | 1179.3  | 8.5       |
| 40°-50°   | 1963.6  | 14.2      |
| 50°-60°   | 3063.1  | 22.2      |
| 60°-70°   | 3790.4  | 27.4      |
| 70°-80°   | 1920.9  | 13.9      |
| 80°-90°   | 201.0   | 1.5       |
| 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°    | 13826.2 | 100.0     |
| 0°-180°   | 13826.2 | 100.0     |



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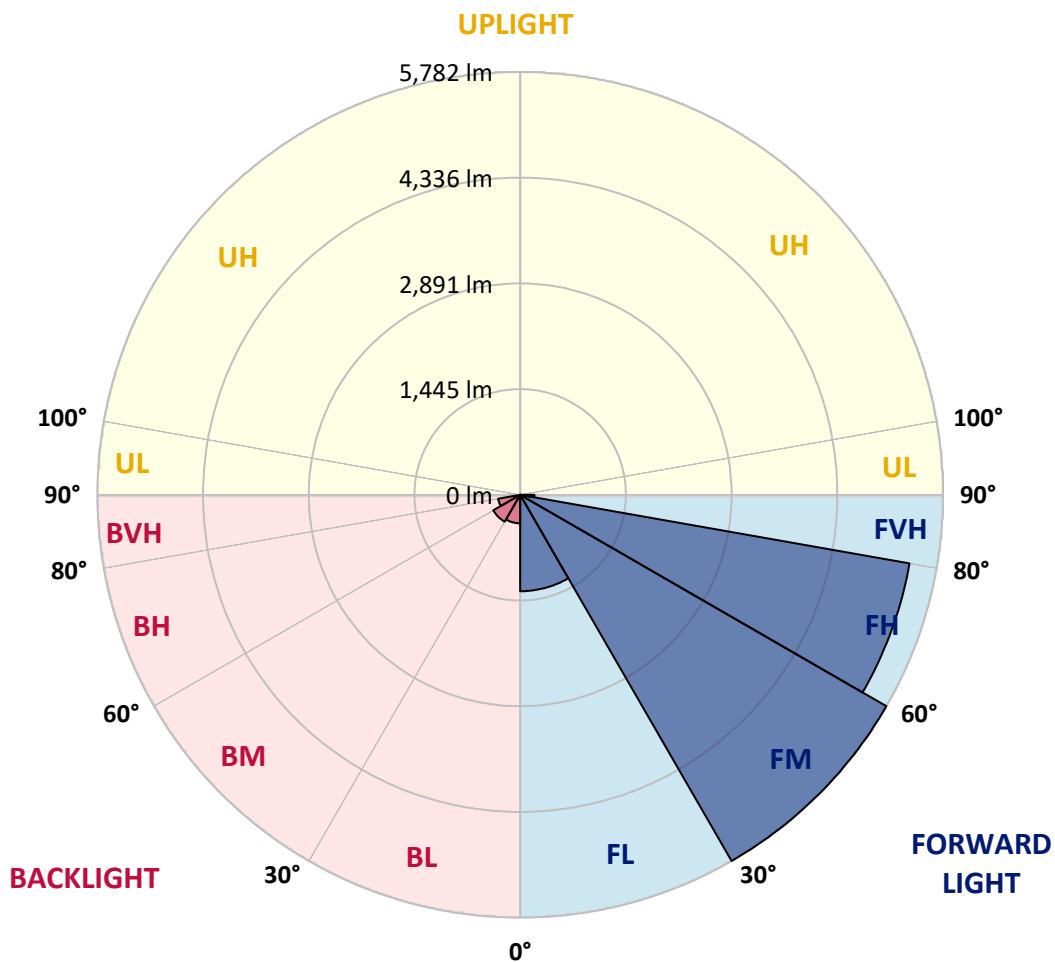
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1318.2 | 9.5       |                         |      |         |
| FM   | (30°-60°)   | 5781.7 | 41.8      |                         |      |         |
| FH   | (60°-80°)   | 5405.5 | 39.1      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 194.8  | 1.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 389.7  | 2.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 424.3  | 3.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 305.8  | 2.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 6.2    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 59°     | 65°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| 0°    | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7  | 3598.7  | 3598.7  | 3598.7  | 3598.7 |
| 2.5°  | 3944.3 | 3942.8 | 3925.6 | 3917.8 | 3903.7 | 3874.0 | 3827.9  | 3803.6  | 3764.6  | 3696.5  | 3605.0 |
| 5°    | 3908.4 | 3927.1 | 3937.3 | 3938.1 | 3948.3 | 3937.3 | 3895.9  | 3875.6  | 3821.6  | 3712.2  | 3547.9 |
| 7.5°  | 3664.4 | 3671.5 | 3700.4 | 3725.4 | 3773.9 | 3820.0 | 3834.8  | 3826.2  | 3794.2  | 3677.0  | 3458.8 |
| 10°   | 3403.4 | 3410.3 | 3444.8 | 3477.6 | 3543.3 | 3614.4 | 3689.5  | 3705.1  | 3718.4  | 3626.9  | 3372.8 |
| 12.5° | 3178.1 | 3185.2 | 3220.4 | 3263.3 | 3339.9 | 3427.5 | 3544.0  | 3569.8  | 3628.5  | 3579.2  | 3304.0 |
| 15°   | 2984.3 | 2987.4 | 3021.8 | 3075.0 | 3166.4 | 3279.0 | 3411.1  | 3452.6  | 3542.5  | 3545.6  | 3243.8 |
| 17.5° | 2819.3 | 2827.1 | 2848.2 | 2899.0 | 2999.1 | 3138.3 | 3292.3  | 3351.7  | 3457.3  | 3517.4  | 3185.2 |
| 20°   | 2718.4 | 2726.3 | 2725.4 | 2753.6 | 2843.5 | 2992.0 | 3173.5  | 3244.6  | 3372.8  | 3488.6  | 3132.8 |
| 22.5° | 2698.9 | 2698.9 | 2678.6 | 2674.6 | 2727.8 | 2852.1 | 3049.9  | 3136.7  | 3297.0  | 3476.0  | 3096.1 |
| 25°   | 2768.5 | 2765.3 | 2714.5 | 2673.1 | 2675.4 | 2749.7 | 2930.3  | 3033.5  | 3232.8  | 3484.6  | 3076.5 |
| 27.5° | 2915.4 | 2911.5 | 2847.4 | 2768.5 | 2705.1 | 2704.4 | 2839.6  | 2950.6  | 3182.1  | 3525.3  | 3084.3 |
| 30°   | 3118.8 | 3117.1 | 3047.6 | 2948.2 | 2833.4 | 2727.8 | 2808.3  | 2909.2  | 3149.3  | 3598.7  | 3102.3 |
| 32.5° | 3340.8 | 3338.4 | 3286.0 | 3181.3 | 3035.8 | 2833.4 | 2841.1  | 2925.6  | 3158.6  | 3696.5  | 3146.1 |
| 35°   | 3576.1 | 3572.1 | 3549.5 | 3458.1 | 3297.8 | 3028.0 | 2949.1  | 3014.7  | 3218.0  | 3842.7  | 3232.1 |
| 37.5° | 3831.0 | 3834.8 | 3851.3 | 3763.7 | 3595.7 | 3300.9 | 3129.7  | 3174.2  | 3337.7  | 4041.3  | 3372.1 |
| 40°   | 4207.0 | 4206.3 | 4211.7 | 4096.8 | 3935.0 | 3634.7 | 3382.2  | 3396.3  | 3537.8  | 4304.8  | 3584.7 |
| 42.5° | 4889.6 | 4841.8 | 4697.3 | 4462.7 | 4300.1 | 4016.3 | 3700.4  | 3685.6  | 3782.5  | 4630.8  | 3882.6 |
| 45°   | 5806.7 | 5705.0 | 5329.8 | 4880.2 | 4672.2 | 4446.3 | 4092.1  | 4044.4  | 4106.2  | 5022.5  | 4250.1 |
| 47.5° | 6595.6 | 6490.0 | 5959.1 | 5314.8 | 5067.1 | 4854.4 | 4551.0  | 4465.1  | 4485.3  | 5461.1  | 4716.0 |
| 50°   | 6863.7 | 6812.1 | 6348.4 | 5693.3 | 5449.4 | 5368.0 | 5083.5  | 4978.7  | 4949.8  | 5968.5  | 5256.2 |
| 52.5° | 6770.7 | 6766.7 | 6457.9 | 5938.7 | 5799.6 | 5899.7 | 5753.5  | 5632.3  | 5526.0  | 6503.3  | 5805.9 |
| 55°   | 6621.4 | 6640.9 | 6502.5 | 6153.8 | 6149.1 | 6385.3 | 6669.8  | 6569.0  | 6260.9  | 7084.1  | 6279.7 |
| 57.5° | 6209.3 | 6293.0 | 6477.4 | 6560.4 | 6752.7 | 6994.2 | 7432.9  | 7492.3  | 7127.9  | 7529.0  | 6672.9 |
| 60°   | 5038.1 | 5221.9 | 5825.4 | 6619.0 | 7530.6 | 8132.6 | 8353.8  | 8404.7  | 7839.4  | 7898.8  | 7203.8 |
| 62.5° | 3576.1 | 3763.7 | 4529.1 | 5871.5 | 7542.3 | 9628.2 | 9726.0  | 9526.6  | 8622.9  | 8446.9  | 8119.4 |
| 65°   | 1898.3 | 2042.9 | 2668.4 | 4238.3 | 6539.2 | 9975.4 | 12125.4 | 11531.2 | 10005.1 | 9525.0  | 9302.2 |
| 67.5° | 971.0  | 1014.8 | 1263.4 | 2074.2 | 4495.6 | 8860.5 | 14276.2 | 14694.5 | 12387.3 | 10594.6 | 9245.1 |
| 69°   | 859.3  | 885.1  | 1050.0 | 1499.5 | 2878.7 | 7504.8 | 14381.1 | 15780.4 | 13634.4 | 10505.5 | 8401.6 |
| 70°   | 831.9  | 854.6  | 1004.6 | 1357.3 | 2250.1 | 6293.7 | 13980.0 | 15685.1 | 13953.4 | 10166.2 | 7771.4 |
| 72.5° | 706.0  | 725.6  | 894.4  | 1199.3 | 1828.7 | 3124.2 | 11356.1 | 13291.1 | 12521.0 | 8468.8  | 5625.3 |
| 75°   | 472.2  | 536.3  | 858.5  | 1124.2 | 1701.3 | 1774.7 | 7486.8  | 9604.8  | 8922.3  | 5712.1  | 2930.3 |
| 77.5° | 113.3  | 121.9  | 242.3  | 894.4  | 1555.8 | 1562.1 | 3850.5  | 5970.9  | 4870.1  | 2035.9  | 692.7  |
| 80°   | 61.0   | 58.6   | 68.0   | 177.5  | 1448.7 | 1465.9 | 1733.3  | 2898.2  | 1738.8  | 337.8   | 228.3  |
| 82.5° | 43.0   | 40.6   | 43.8   | 74.3   | 455.8  | 1335.4 | 1254.0  | 1311.9  | 720.9   | 129.8   | 102.4  |
| 85°   | 15.7   | 14.8   | 24.2   | 67.2   | 143.1  | 767.7  | 1288.5  | 1082.1  | 584.0   | 59.4    | 75.1   |
| 87.5° | 5.5    | 4.7    | 9.4    | 36.7   | 43.8   | 326.8  | 795.1   | 817.7   | 229.9   | 36.0    | 35.2   |
| 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°    | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 |
| 2.5°  | 3566.7 | 3518.2 | 3429.1 | 3337.7 | 3253.2 | 3151.6 | 3100.8 | 3050.7 | 3029.6 | 3021.8 | 2985.1 |
| 5°    | 3463.5 | 3381.5 | 3192.2 | 3002.3 | 2827.1 | 2641.1 | 2518.3 | 2419.8 | 2361.9 | 2333.8 | 2289.2 |
| 7.5°  | 3331.3 | 3196.9 | 2910.0 | 2616.8 | 2343.9 | 2075.0 | 1875.6 | 1722.3 | 1616.9 | 1566.0 | 1519.9 |
| 10°   | 3203.2 | 3024.1 | 2616.0 | 2216.5 | 1845.9 | 1489.4 | 1214.1 | 1014.8 | 887.4  | 828.7  | 791.3  |
| 12.5° | 3088.2 | 2856.1 | 2332.2 | 1826.4 | 1361.1 | 943.7  | 663.8  | 505.0  | 426.1  | 398.7  | 385.4  |
| 15°   | 2985.8 | 2701.2 | 2064.0 | 1455.8 | 921.8  | 539.5  | 362.7  | 308.8  | 296.3  | 296.3  | 294.7  |
| 17.5° | 2888.9 | 2549.6 | 1805.2 | 1107.9 | 578.6  | 329.9  | 276.0  | 268.9  | 268.9  | 272.1  | 272.1  |
| 20°   | 2795.8 | 2405.0 | 1555.1 | 795.1  | 364.4  | 261.9  | 249.4  | 247.9  | 249.4  | 253.3  | 253.3  |
| 22.5° | 2716.0 | 2273.6 | 1321.3 | 545.7  | 270.5  | 236.1  | 229.9  | 227.5  | 228.3  | 230.7  | 232.2  |
| 25°   | 2656.7 | 2162.5 | 1100.8 | 369.8  | 233.0  | 215.0  | 208.0  | 204.1  | 200.9  | 200.9  | 202.5  |
| 27.5° | 2619.2 | 2068.7 | 887.4  | 268.9  | 209.5  | 195.5  | 184.5  | 178.3  | 171.2  | 167.4  | 168.9  |
| 30°   | 2591.7 | 1979.6 | 687.2  | 219.7  | 187.6  | 173.6  | 159.5  | 149.4  | 139.1  | 134.5  | 136.1  |
| 32.5° | 2581.6 | 1907.7 | 513.6  | 193.8  | 168.1  | 152.4  | 135.2  | 121.9  | 111.0  | 107.1  | 107.9  |
| 35°   | 2608.9 | 1850.6 | 376.0  | 175.1  | 152.4  | 132.9  | 113.3  | 98.5   | 89.9   | 87.6   | 88.4   |
| 37.5° | 2680.9 | 1820.1 | 281.4  | 159.5  | 138.4  | 116.5  | 94.6   | 80.5   | 75.1   | 75.1   | 75.8   |
| 40°   | 2816.9 | 1819.3 | 226.0  | 148.5  | 125.9  | 100.9  | 78.2   | 68.0   | 64.9   | 66.5   | 67.2   |
| 42.5° | 3015.6 | 1860.7 | 197.0  | 138.4  | 115.0  | 86.0   | 64.9   | 57.9   | 57.1   | 58.6   | 59.4   |
| 45°   | 3286.8 | 1936.5 | 181.4  | 129.8  | 103.2  | 71.9   | 54.7   | 50.0   | 50.0   | 52.4   | 53.2   |
| 47.5° | 3619.1 | 2047.6 | 168.1  | 121.2  | 91.5   | 60.3   | 47.0   | 43.8   | 44.6   | 47.0   | 47.7   |
| 50°   | 4019.4 | 2187.6 | 154.8  | 111.8  | 82.9   | 50.0   | 40.6   | 38.4   | 39.1   | 42.2   | 43.0   |
| 52.5° | 4475.2 | 2376.0 | 143.8  | 103.2  | 71.9   | 41.4   | 34.4   | 32.8   | 34.4   | 37.5   | 38.4   |
| 55°   | 4866.1 | 2544.9 | 130.5  | 96.2   | 57.9   | 34.4   | 28.1   | 28.1   | 29.7   | 33.7   | 34.4   |
| 57.5° | 5242.2 | 2721.6 | 118.9  | 82.9   | 45.3   | 27.4   | 23.4   | 24.2   | 26.6   | 30.5   | 31.3   |
| 60°   | 5794.2 | 3021.0 | 104.8  | 69.6   | 34.4   | 21.9   | 19.5   | 20.4   | 23.4   | 27.4   | 28.1   |
| 62.5° | 6731.5 | 3476.8 | 90.7   | 57.9   | 26.6   | 17.2   | 15.7   | 17.2   | 21.1   | 25.8   | 26.6   |
| 65°   | 7577.5 | 3662.1 | 74.3   | 48.5   | 20.4   | 13.3   | 13.3   | 15.7   | 20.4   | 25.1   | 25.8   |
| 67.5° | 7106.0 | 3082.8 | 57.9   | 38.4   | 15.7   | 10.1   | 10.9   | 14.8   | 19.5   | 25.1   | 25.8   |
| 69°   | 6284.4 | 2520.7 | 49.3   | 30.5   | 13.3   | 9.4    | 10.1   | 14.8   | 19.5   | 24.2   | 25.1   |
| 70°   | 5644.0 | 2128.1 | 43.8   | 25.8   | 11.8   | 9.4    | 10.1   | 14.1   | 19.5   | 24.2   | 25.1   |
| 72.5° | 3780.1 | 1149.3 | 35.2   | 18.7   | 10.9   | 8.6    | 8.6    | 14.1   | 18.7   | 23.4   | 24.2   |
| 75°   | 1624.7 | 317.4  | 28.1   | 13.3   | 9.4    | 7.8    | 7.8    | 13.3   | 18.0   | 22.7   | 24.2   |
| 77.5° | 297.1  | 80.5   | 22.7   | 11.8   | 9.4    | 7.8    | 7.1    | 12.5   | 17.2   | 21.9   | 22.7   |
| 80°   | 118.0  | 39.9   | 18.0   | 10.1   | 8.6    | 7.1    | 6.2    | 11.8   | 16.5   | 21.1   | 21.9   |
| 82.5° | 71.2   | 22.7   | 14.8   | 9.4    | 8.6    | 6.2    | 5.5    | 10.1   | 15.7   | 20.4   | 21.1   |
| 85°   | 57.9   | 15.7   | 11.8   | 9.4    | 7.8    | 6.2    | 4.7    | 9.4    | 14.1   | 19.5   | 20.4   |
| 87.5° | 28.1   | 10.9   | 10.9   | 8.6    | 7.8    | 6.2    | 4.7    | 8.6    | 13.3   | 18.7   | 19.5   |
| 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)