

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: P382969

Luminaire Tested: **GAN-SA3B-735-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382969  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3B-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15921.1 lumens  
Efficiency: N/A  
Efficacy: 128.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

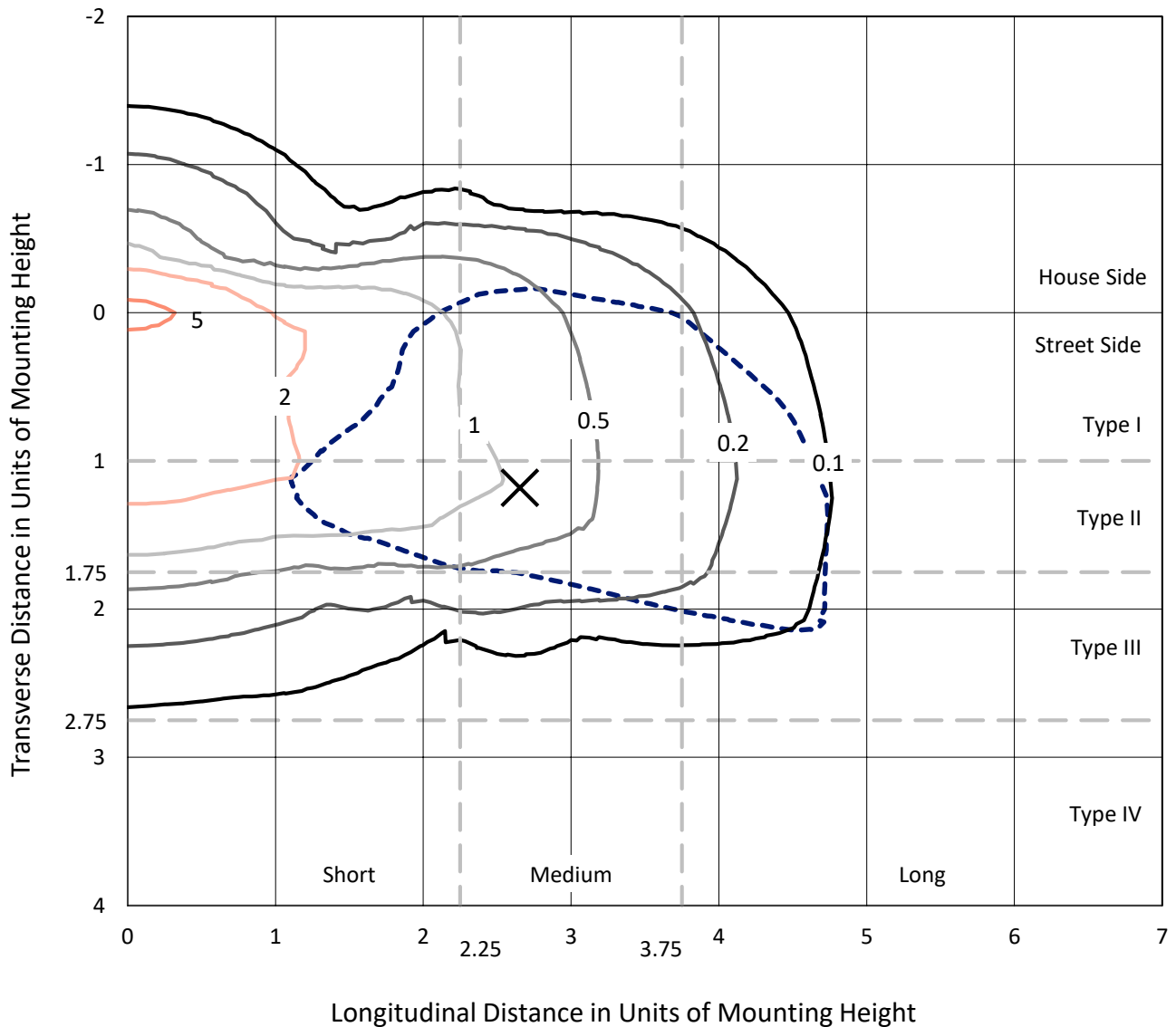
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P382969  
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### Iso-Footcandle Lines of Horizontal Illumination

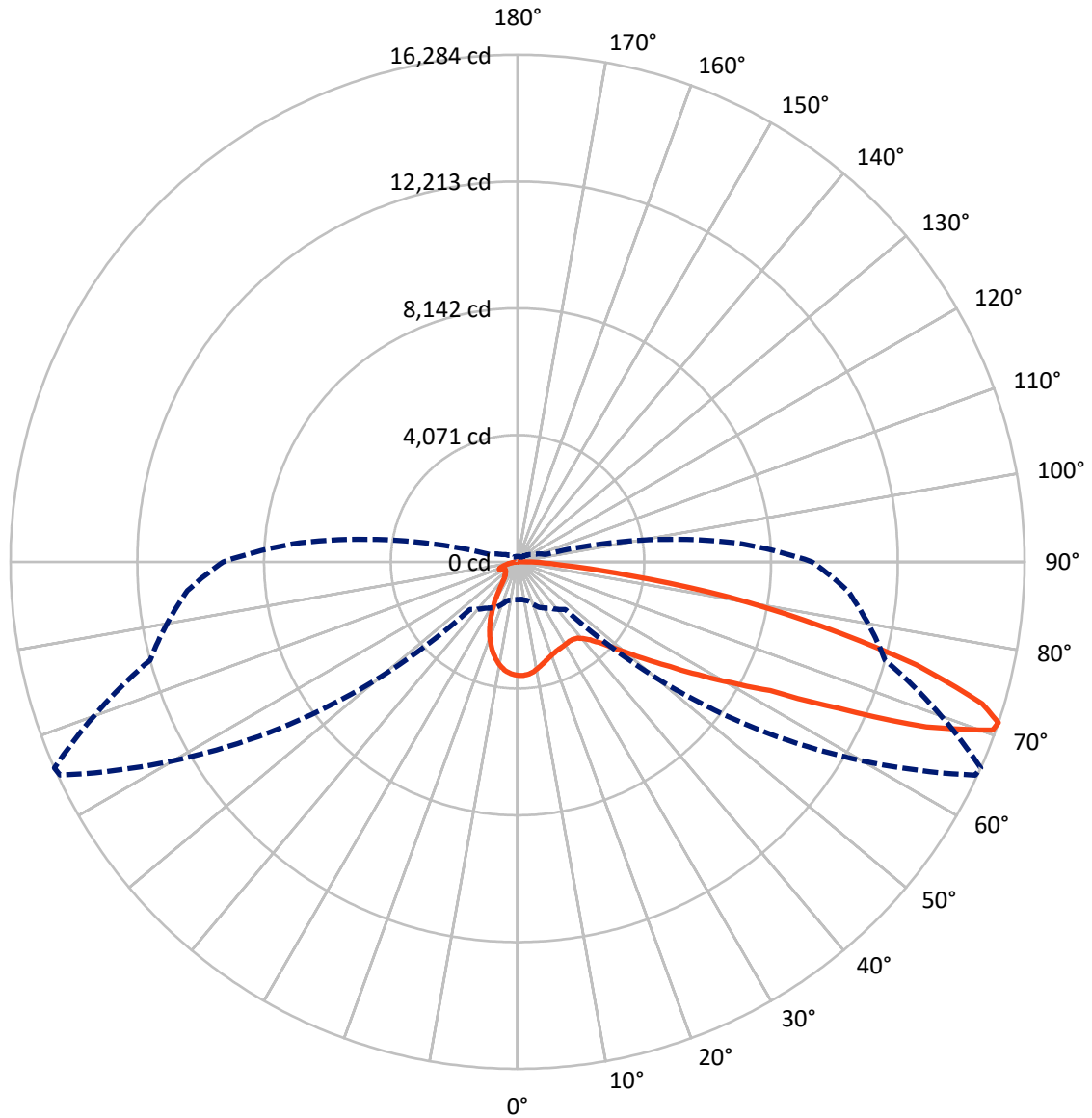
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type III - Medium - N/A

REPORT NUMBER: P382969  
CATALOG NUMBER: GAN-SA3B-735-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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 CATALOG NUMBER: GAN-SA3B-735-U-SL2

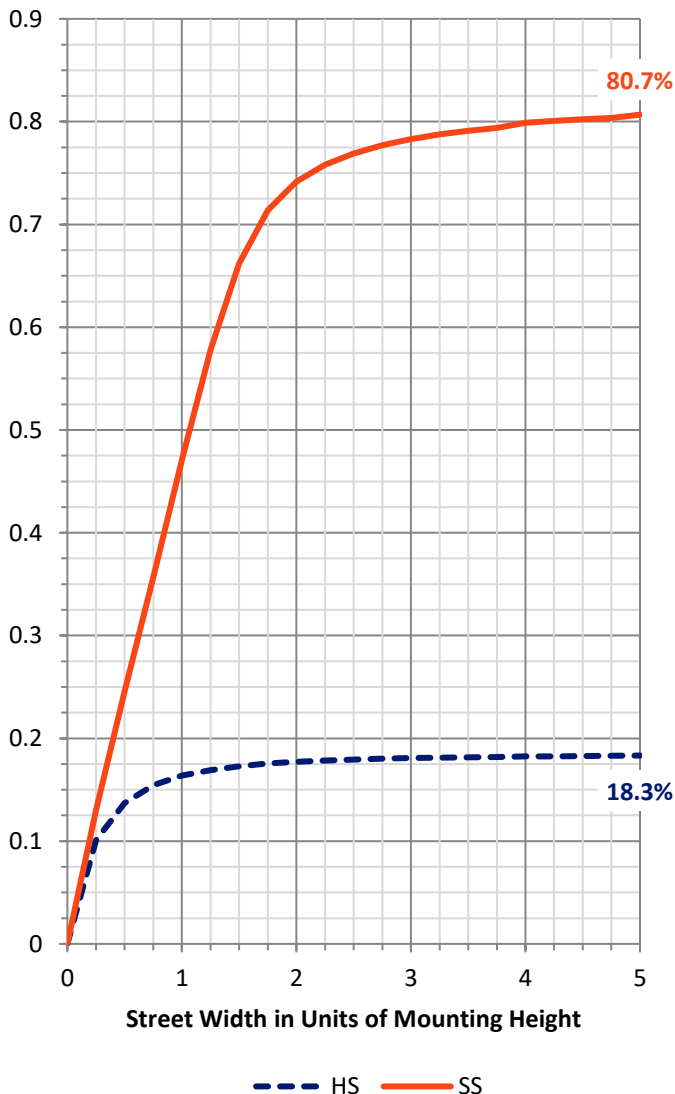
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2950.6   | 0.0    | 2950.6  |
|                    | % Fixture | 18.5     | 0.0    | 18.5    |
| <b>Street Side</b> | Lumens    | 12970.5  | 0.0    | 12970.5 |
|                    | % Fixture | 81.5     | 0.0    | 81.5    |
| <b>Total</b>       | Lumens    | 15921.1  | 0.0    | 15921.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 321.0   | 2.0       |
| 10°-20°   | 770.0   | 4.8       |
| 20°-30°   | 1034.3  | 6.5       |
| 30°-40°   | 1360.6  | 8.5       |
| 40°-50°   | 1979.3  | 12.4      |
| 50°-60°   | 3091.9  | 19.4      |
| 60°-70°   | 3873.1  | 24.3      |
| 70°-80°   | 2954.3  | 18.6      |
| 80°-90°   | 536.5   | 3.4       |
| 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°    | 15921.1 | 100.0     |
| 0°-180°   | 15921.1 | 100.0     |

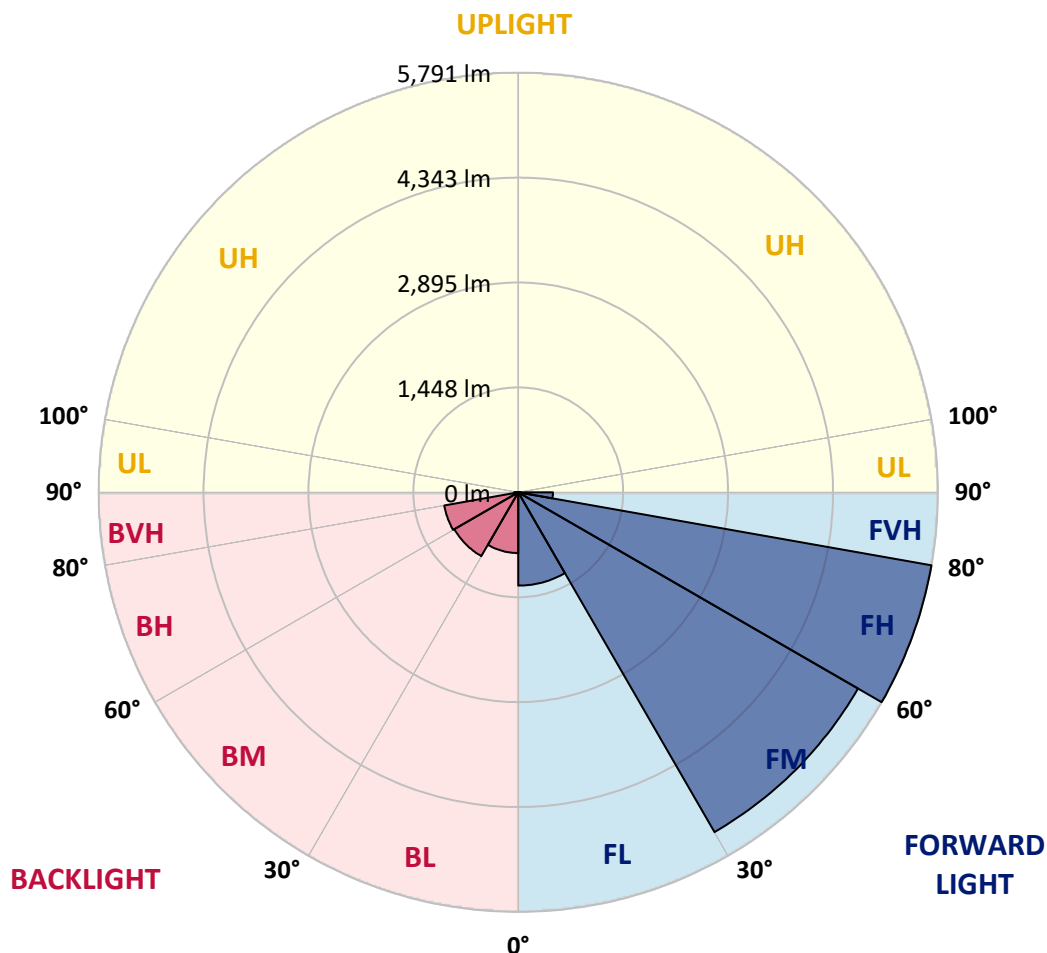


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 CATALOG NUMBER: GAN-SA3B-735-U-SL2

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1287.4 | 8.1       |                         |      |         |
| FM (30°-60°)   | 5414.0 | 34.0      |                         |      |         |
| FH (60°-80°)   | 5790.7 | 36.4      |                         |      | G3/7500 |
| FVH (80°-90°)  | 478.4  | 3.0       |                         |      | G3/500  |
| BL (0°-30°)    | 837.9  | 5.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 1017.9 | 6.4       | B2/2500                 |      |         |
| BH (60°-80°)   | 1036.8 | 6.5       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 58.1   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**  
 Type III Medium





REPORT NUMBER: P382969

CATALOG NUMBER: GAN-SA3B-735-U-SL2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 3647.2 | 3647.2 | 3647.2 | 3647.2 | 3647.2 | 3647.2 | 3647.2  | 3647.2  | 3647.2  | 3647.2  | 3647.2  |
| 2.5°  | 3579.6 | 3574.1 | 3590.6 | 3607.6 | 3614.2 | 3625.2 | 3641.7  | 3651.0  | 3650.5  | 3652.1  | 3646.6  |
| 5°    | 3342.1 | 3334.9 | 3368.0 | 3394.9 | 3446.5 | 3504.9 | 3575.7  | 3626.3  | 3627.4  | 3656.0  | 3663.7  |
| 7.5°  | 3117.3 | 3112.4 | 3150.3 | 3193.7 | 3253.6 | 3342.7 | 3457.5  | 3566.4  | 3573.0  | 3650.5  | 3677.5  |
| 10°   | 2937.0 | 2935.9 | 2972.8 | 3020.0 | 3089.9 | 3189.3 | 3321.2  | 3480.6  | 3490.5  | 3624.1  | 3679.6  |
| 12.5° | 2796.3 | 2798.5 | 2830.4 | 2884.3 | 2957.9 | 3061.8 | 3204.7  | 3384.5  | 3400.4  | 3582.4  | 3667.0  |
| 15°   | 2692.4 | 2701.2 | 2727.0 | 2781.4 | 2854.0 | 2959.5 | 3106.3  | 3295.4  | 3319.6  | 3535.6  | 3659.9  |
| 17.5° | 2633.0 | 2642.9 | 2661.1 | 2706.1 | 2774.3 | 2876.0 | 3015.0  | 3222.3  | 3244.3  | 3499.9  | 3660.4  |
| 20°   | 2615.4 | 2623.7 | 2634.1 | 2661.6 | 2719.4 | 2811.7 | 2943.0  | 3156.4  | 3179.9  | 3471.3  | 3665.9  |
| 22.5° | 2650.1 | 2656.1 | 2657.2 | 2655.0 | 2690.2 | 2765.5 | 2890.9  | 3107.9  | 3133.3  | 3452.6  | 3669.7  |
| 25°   | 2724.3 | 2732.5 | 2726.5 | 2706.1 | 2694.6 | 2740.8 | 2863.9  | 3076.1  | 3101.4  | 3438.9  | 3662.0  |
| 27.5° | 2835.9 | 2836.9 | 2832.0 | 2805.6 | 2751.2 | 2743.5 | 2855.7  | 3057.4  | 3081.6  | 3423.0  | 3646.1  |
| 30°   | 2987.6 | 2994.7 | 2985.9 | 2950.2 | 2861.2 | 2787.5 | 2865.5  | 3039.3  | 3061.3  | 3402.6  | 3620.3  |
| 32.5° | 3165.1 | 3182.7 | 3182.2 | 3144.8 | 3017.3 | 2885.8 | 2906.2  | 3028.3  | 3045.3  | 3381.1  | 3589.0  |
| 35°   | 3349.3 | 3373.5 | 3418.5 | 3402.6 | 3244.9 | 3041.4 | 2984.3  | 3045.9  | 3057.4  | 3378.4  | 3567.0  |
| 37.5° | 3540.5 | 3564.8 | 3657.6 | 3700.6 | 3515.8 | 3264.0 | 3107.5  | 3107.9  | 3113.4  | 3412.0  | 3565.3  |
| 40°   | 3740.6 | 3766.5 | 3906.1 | 4017.7 | 3867.1 | 3546.0 | 3305.9  | 3237.7  | 3231.6  | 3494.4  | 3597.7  |
| 42.5° | 4021.0 | 4044.1 | 4211.7 | 4354.1 | 4256.8 | 3907.2 | 3580.1  | 3437.8  | 3425.1  | 3656.0  | 3701.6  |
| 45°   | 4375.6 | 4395.3 | 4573.4 | 4725.7 | 4675.7 | 4319.5 | 3924.8  | 3713.1  | 3711.0  | 3925.4  | 3912.1  |
| 47.5° | 4797.2 | 4812.6 | 4972.5 | 5119.9 | 5138.0 | 4793.8 | 4358.0  | 4138.1  | 4102.3  | 4294.7  | 4238.2  |
| 50°   | 5236.4 | 5253.4 | 5362.3 | 5520.5 | 5655.2 | 5428.8 | 4915.3  | 4658.7  | 4610.8  | 4782.3  | 4699.8  |
| 52.5° | 5527.2 | 5549.7 | 5644.2 | 5844.9 | 6236.8 | 6124.6 | 5574.5  | 5289.7  | 5217.1  | 5373.3  | 5310.0  |
| 55°   | 5397.4 | 5448.0 | 5592.5 | 5914.1 | 6701.8 | 7187.8 | 6387.4  | 6025.7  | 5943.8  | 6073.6  | 6036.1  |
| 57.5° | 4807.6 | 4876.8 | 5074.2 | 5570.6 | 6767.2 | 8124.5 | 7616.5  | 6892.6  | 6834.9  | 6797.5  | 6814.6  |
| 60°   | 3729.6 | 3796.1 | 4040.8 | 4687.7 | 6311.6 | 8808.2 | 9466.3  | 7961.2  | 7877.6  | 7524.2  | 7539.6  |
| 62.5° | 2639.6 | 2606.1 | 2773.8 | 3247.0 | 5128.6 | 8888.5 | 11571.0 | 9390.4  | 9115.6  | 8291.5  | 8224.0  |
| 65°   | 2013.0 | 2005.2 | 2080.6 | 2231.2 | 3106.3 | 7928.2 | 12824.9 | 11792.6 | 11363.2 | 9194.2  | 9034.7  |
| 67.5° | 1654.1 | 1640.3 | 1714.5 | 1933.8 | 2000.3 | 5114.8 | 12852.4 | 14579.5 | 14157.8 | 10317.7 | 9972.5  |
| 70°   | 1360.0 | 1344.5 | 1413.8 | 1696.9 | 1848.7 | 2594.0 | 10816.9 | 16211.5 | 16189.0 | 11740.3 | 10680.6 |
| 71°   | 1219.2 | 1208.2 | 1291.2 | 1605.6 | 1816.1 | 2161.9 | 9339.3  | 16215.9 | 16283.5 | 12221.9 | 10638.7 |
| 72.5° | 992.8  | 996.6  | 1084.5 | 1429.2 | 1792.0 | 1909.1 | 6864.0  | 15460.2 | 15603.0 | 12680.9 | 10258.9 |
| 75°   | 659.6  | 662.9  | 778.4  | 1099.4 | 1737.6 | 1867.8 | 3772.6  | 12972.7 | 13235.5 | 12406.0 | 9361.3  |
| 77.5° | 443.0  | 441.9  | 520.5  | 754.2  | 1513.9 | 1867.8 | 2212.0  | 9702.6  | 9991.2  | 9871.4  | 7216.9  |
| 80°   | 305.1  | 302.8  | 358.4  | 520.5  | 1146.1 | 1890.4 | 1710.1  | 6799.7  | 6887.1  | 5330.9  | 2933.2  |
| 82.5° | 186.9  | 188.5  | 234.2  | 367.8  | 780.0  | 1701.3 | 1614.5  | 3707.7  | 3612.5  | 1495.1  | 732.8   |
| 85°   | 107.2  | 106.7  | 149.5  | 249.0  | 500.8  | 1435.8 | 1574.3  | 1595.7  | 1463.8  | 450.2   | 264.9   |
| 87.5° | 38.5   | 41.3   | 80.3   | 138.0  | 286.9  | 999.9  | 1335.7  | 830.0   | 748.1   | 203.4   | 119.8   |
| 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°    | 3647.2 | 3647.2 | 3647.2 | 3647.2 | 3647.2 | 3647.2 | 3647.2 | 3647.2 | 3647.2 | 3647.2 | 3647.2 |
| 2.5°  | 3642.8 | 3646.1 | 3642.3 | 3620.3 | 3601.5 | 3571.4 | 3554.3 | 3530.7 | 3523.5 | 3520.2 | 3529.0 |
| 5°    | 3656.5 | 3657.6 | 3625.2 | 3567.5 | 3502.6 | 3426.2 | 3371.3 | 3303.6 | 3271.8 | 3258.0 | 3266.8 |
| 7.5°  | 3669.2 | 3664.2 | 3593.4 | 3482.9 | 3363.0 | 3230.0 | 3111.8 | 3003.5 | 2940.3 | 2914.4 | 2916.7 |
| 10°   | 3670.9 | 3650.0 | 3536.2 | 3365.2 | 3179.5 | 2984.3 | 2802.8 | 2635.8 | 2530.3 | 2461.5 | 2482.4 |
| 12.5° | 3653.8 | 3618.6 | 3452.0 | 3212.9 | 2955.1 | 2689.1 | 2443.9 | 2193.2 | 2042.7 | 1972.8 | 1975.1 |
| 15°   | 3640.6 | 3576.9 | 3348.7 | 3033.8 | 2687.4 | 2335.1 | 2000.3 | 1705.7 | 1545.2 | 1473.7 | 1440.2 |
| 17.5° | 3629.6 | 3531.8 | 3228.9 | 2832.0 | 2371.3 | 1924.5 | 1522.1 | 1259.4 | 1171.4 | 1150.5 | 1141.7 |
| 20°   | 3614.2 | 3484.0 | 3095.3 | 2598.4 | 2011.3 | 1465.0 | 1111.5 | 981.8  | 982.3  | 1006.4 | 1009.8 |
| 22.5° | 3592.8 | 3429.5 | 2952.9 | 2336.2 | 1624.9 | 1067.0 | 871.3  | 833.9  | 871.8  | 917.9  | 926.2  |
| 25°   | 3560.9 | 3365.2 | 2794.6 | 2046.5 | 1239.1 | 820.1  | 744.3  | 742.6  | 788.8  | 837.2  | 844.4  |
| 27.5° | 3515.8 | 3281.1 | 2618.8 | 1735.4 | 913.0  | 697.0  | 666.8  | 678.4  | 712.4  | 747.6  | 750.4  |
| 30°   | 3455.4 | 3183.3 | 2424.7 | 1407.2 | 715.7  | 620.6  | 617.3  | 627.8  | 648.6  | 673.4  | 675.6  |
| 32.5° | 3388.9 | 3083.8 | 2217.5 | 1089.4 | 612.9  | 579.4  | 582.7  | 587.6  | 597.5  | 607.4  | 609.6  |
| 35°   | 3328.4 | 2982.1 | 2005.2 | 827.9  | 564.0  | 552.4  | 550.3  | 549.1  | 550.3  | 546.9  | 547.5  |
| 37.5° | 3289.4 | 2898.0 | 1784.3 | 659.1  | 535.9  | 528.8  | 522.2  | 513.9  | 504.6  | 499.1  | 500.2  |
| 40°   | 3275.0 | 2835.4 | 1560.6 | 569.5  | 512.8  | 507.9  | 495.3  | 477.7  | 466.7  | 463.4  | 463.4  |
| 42.5° | 3313.5 | 2802.8 | 1344.5 | 524.4  | 493.6  | 485.3  | 464.5  | 444.2  | 435.9  | 435.3  | 434.8  |
| 45°   | 3431.2 | 2816.1 | 1139.0 | 499.7  | 476.0  | 460.1  | 432.6  | 415.6  | 410.1  | 411.2  | 410.6  |
| 47.5° | 3642.3 | 2899.1 | 963.0  | 483.2  | 458.4  | 437.5  | 406.8  | 393.0  | 386.4  | 386.4  | 387.0  |
| 50°   | 4001.2 | 3093.1 | 822.9  | 469.4  | 443.6  | 416.7  | 388.1  | 371.0  | 362.3  | 361.7  | 361.7  |
| 52.5° | 4524.0 | 3440.5 | 735.5  | 457.9  | 427.1  | 398.0  | 369.4  | 347.9  | 337.5  | 335.4  | 334.2  |
| 55°   | 5179.2 | 3938.6 | 711.3  | 450.2  | 405.1  | 377.6  | 346.8  | 325.4  | 313.8  | 308.9  | 308.3  |
| 57.5° | 5912.0 | 4544.3 | 759.1  | 440.8  | 382.6  | 353.4  | 322.1  | 301.8  | 289.7  | 283.7  | 283.1  |
| 60°   | 6653.5 | 5205.6 | 954.3  | 427.7  | 363.9  | 327.1  | 296.8  | 278.2  | 266.0  | 259.4  | 258.3  |
| 62.5° | 7396.1 | 5902.6 | 1352.8 | 426.6  | 350.7  | 301.8  | 271.0  | 255.1  | 243.5  | 236.3  | 234.7  |
| 65°   | 8233.9 | 6665.6 | 1805.7 | 455.7  | 346.3  | 278.7  | 244.6  | 232.0  | 222.1  | 215.5  | 214.9  |
| 67.5° | 9195.8 | 7526.9 | 1762.3 | 515.6  | 361.2  | 257.9  | 219.8  | 210.0  | 202.8  | 197.3  | 196.8  |
| 70°   | 9647.1 | 7392.3 | 1095.5 | 557.9  | 382.0  | 237.5  | 196.3  | 189.1  | 183.6  | 179.8  | 178.1  |
| 71°   | 9458.0 | 7019.0 | 918.5  | 553.0  | 379.8  | 228.7  | 186.9  | 181.4  | 175.9  | 172.6  | 170.9  |
| 72.5° | 8942.4 | 6401.1 | 766.3  | 514.5  | 355.1  | 212.8  | 174.8  | 169.3  | 164.3  | 160.5  | 159.4  |
| 75°   | 8024.4 | 5716.8 | 613.4  | 411.2  | 283.1  | 179.8  | 153.3  | 147.3  | 143.5  | 141.3  | 139.1  |
| 77.5° | 5898.7 | 4079.8 | 474.3  | 324.8  | 208.3  | 146.8  | 130.8  | 126.4  | 122.6  | 119.2  | 117.7  |
| 80°   | 2259.7 | 1580.4 | 319.3  | 242.4  | 152.8  | 116.0  | 105.5  | 103.3  | 99.5   | 97.3   | 97.3   |
| 82.5° | 608.5  | 472.2  | 170.4  | 146.8  | 102.3  | 84.7   | 80.8   | 79.7   | 76.4   | 72.0   | 72.6   |
| 85°   | 246.3  | 208.3  | 95.7   | 80.8   | 62.7   | 50.0   | 54.4   | 55.0   | 51.1   | 45.6   | 46.2   |
| 87.5° | 108.2  | 88.5   | 53.3   | 35.8   | 27.5   | 19.3   | 24.8   | 24.8   | 22.5   | 18.7   | 17.0   |
| 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)