

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: P522837

Luminaire Tested: **GLAN-SA7A-830-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522837  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7A-830-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25330 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

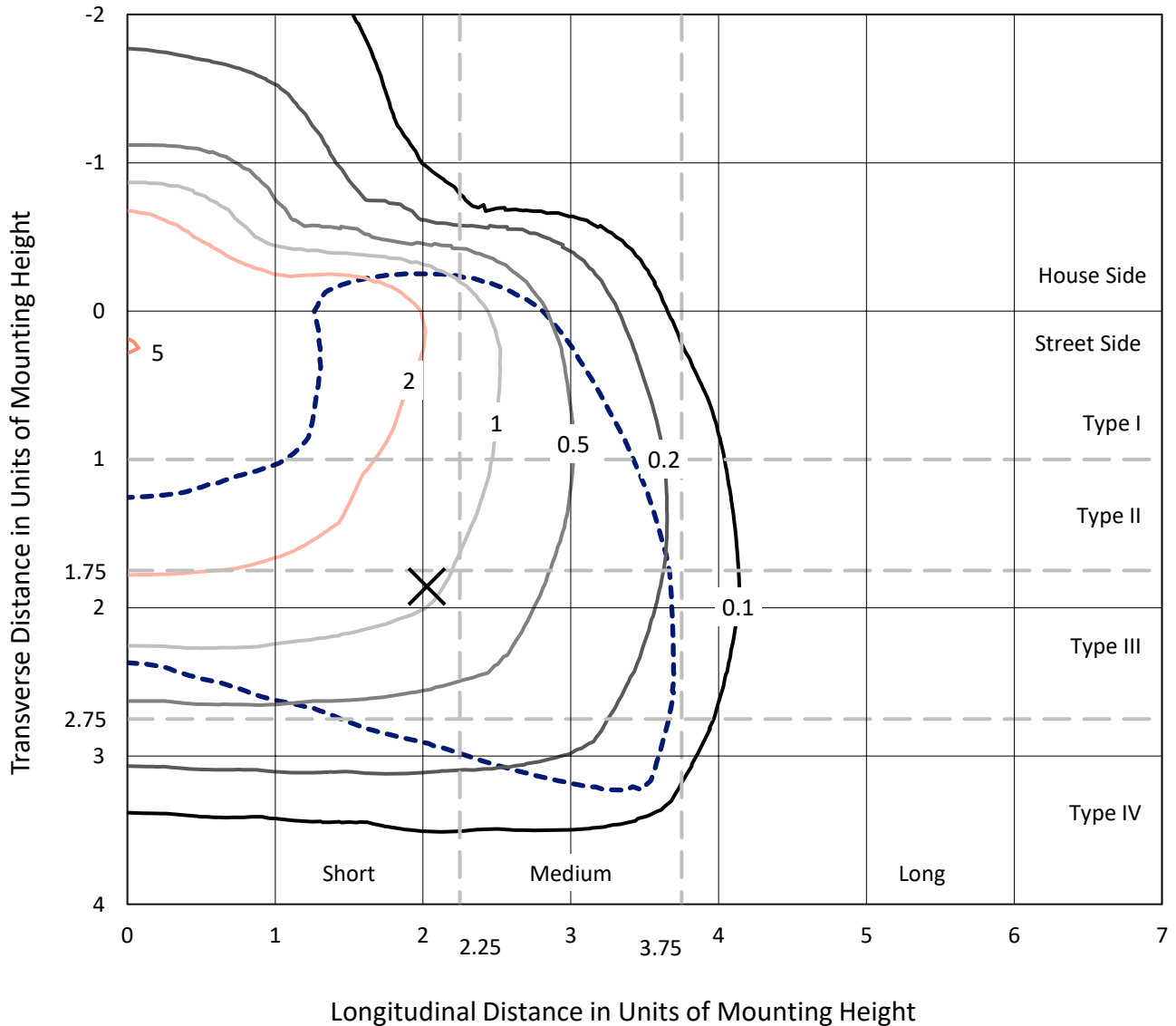
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

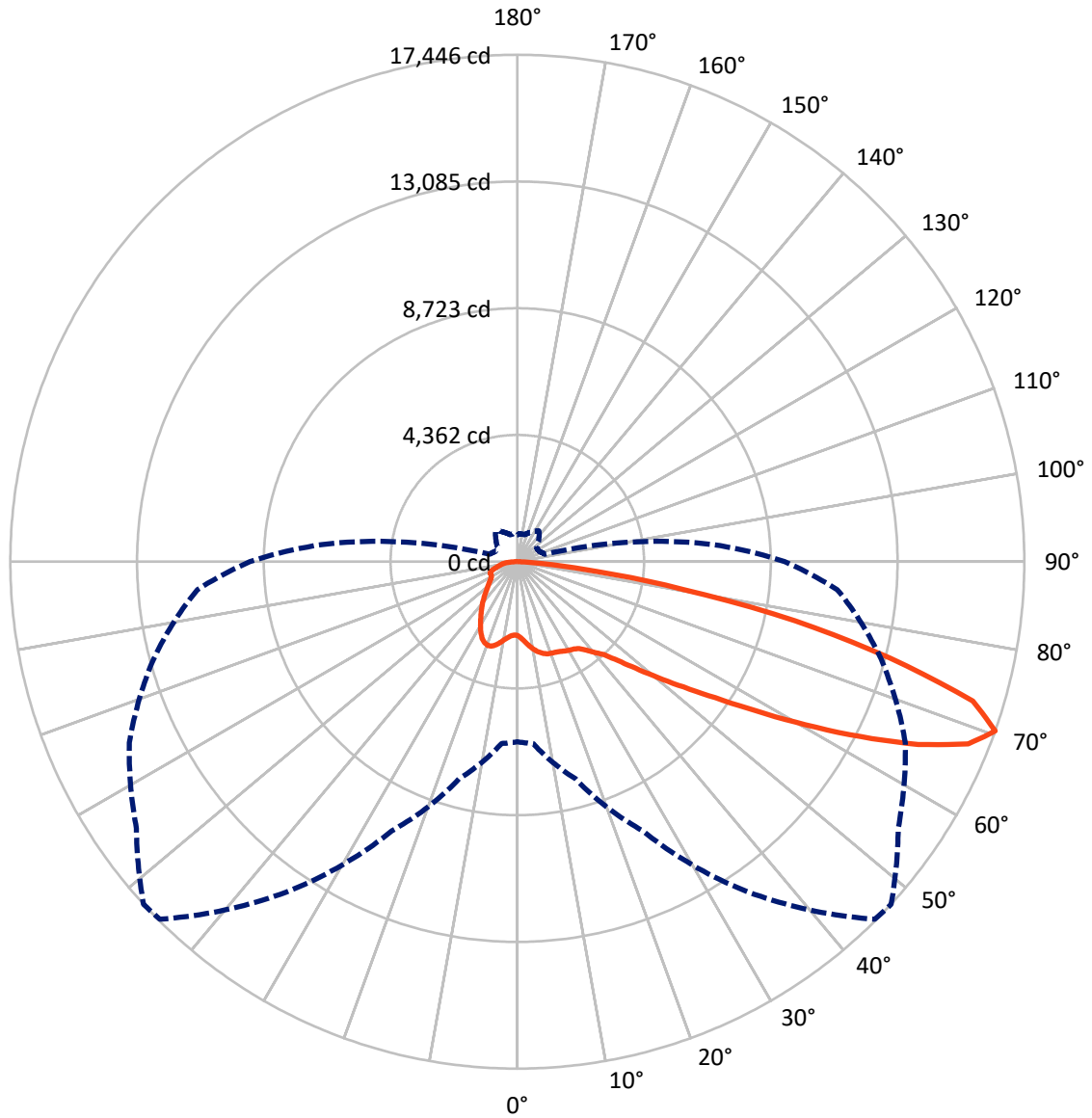
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5735.2   | 0.0    | 5735.2  |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 19594.8  | 0.0    | 19594.8 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 25330.0  | 0.0    | 25330.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 262.1   | 1.0       |
| 10°-20°   | 876.3   | 3.5       |
| 20°-30°   | 1457.2  | 5.8       |
| 30°-40°   | 2065.4  | 8.2       |
| 40°-50°   | 3048.9  | 12.0      |
| 50°-60°   | 5280.9  | 20.8      |
| 60°-70°   | 7459.4  | 29.4      |
| 70°-80°   | 4288.1  | 16.9      |
| 80°-90°   | 591.6   | 2.3       |
| 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°    | 25330.0 | 100.0     |
| 0°-180°   | 25330.0 | 100.0     |

**Coefficient of Utilization**



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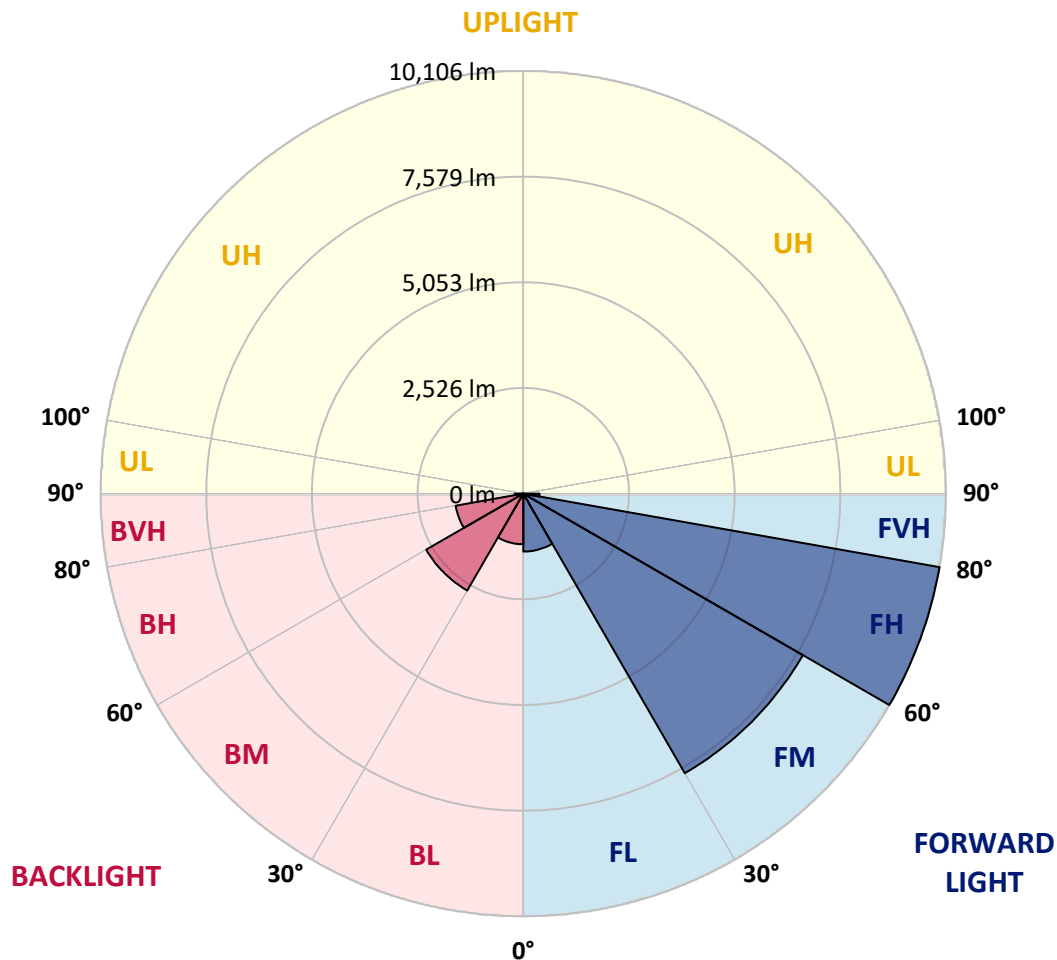
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1385.1  | 5.5       |                         |      |          |
| FM   | (30°-60°)   | 7717.6  | 30.5      |                         |      |          |
| FH   | (60°-80°)   | 10105.6 | 39.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 386.5   | 1.5       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1210.5  | 4.8       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2677.7  | 10.6      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1641.9  | 6.5       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 205.2   | 0.8       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 47.5°   | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2542.8  | 2542.8  | 2542.8  | 2542.8  | 2542.8  | 2542.8  | 2542.8  | 2542.8  | 2542.8  | 2542.8  | 2542.8  |
| 2.5°  | 2706.8  | 2697.3  | 2696.0  | 2675.7  | 2664.8  | 2644.5  | 2636.4  | 2617.4  | 2594.3  | 2571.3  | 2549.6  |
| 5°    | 2919.6  | 2919.6  | 2910.2  | 2881.7  | 2837.0  | 2790.9  | 2770.5  | 2733.9  | 2668.9  | 2616.0  | 2571.3  |
| 7.5°  | 3137.9  | 3140.6  | 3121.6  | 3079.6  | 3015.9  | 2941.3  | 2922.4  | 2868.1  | 2776.0  | 2698.7  | 2632.3  |
| 10°   | 3326.3  | 3326.3  | 3300.5  | 3243.6  | 3163.6  | 3082.3  | 3063.3  | 3002.3  | 2899.3  | 2803.1  | 2716.3  |
| 12.5° | 3470.0  | 3470.0  | 3436.1  | 3361.5  | 3274.8  | 3201.6  | 3179.9  | 3121.6  | 3025.4  | 2918.3  | 2808.5  |
| 15°   | 3563.5  | 3556.7  | 3518.8  | 3434.7  | 3350.7  | 3287.0  | 3272.1  | 3223.3  | 3135.2  | 3026.7  | 2903.4  |
| 17.5° | 3567.5  | 3564.8  | 3528.2  | 3457.8  | 3384.6  | 3341.2  | 3331.7  | 3299.2  | 3230.0  | 3127.0  | 2996.9  |
| 20°   | 3488.9  | 3494.4  | 3470.0  | 3419.8  | 3384.6  | 3365.6  | 3361.5  | 3350.7  | 3301.9  | 3205.6  | 3075.5  |
| 22.5° | 3404.9  | 3414.4  | 3391.3  | 3364.2  | 3361.5  | 3380.5  | 3383.2  | 3385.9  | 3354.7  | 3261.2  | 3141.9  |
| 25°   | 3384.6  | 3391.3  | 3368.3  | 3343.9  | 3358.8  | 3409.0  | 3419.8  | 3430.6  | 3406.2  | 3327.6  | 3220.6  |
| 27.5° | 3487.6  | 3482.2  | 3437.4  | 3384.6  | 3394.1  | 3461.8  | 3476.7  | 3488.9  | 3476.7  | 3409.0  | 3318.1  |
| 30°   | 3779.0  | 3761.4  | 3671.9  | 3517.4  | 3468.6  | 3516.0  | 3531.0  | 3564.8  | 3564.8  | 3514.7  | 3423.9  |
| 32.5° | 4267.0  | 4233.1  | 4069.1  | 3765.4  | 3596.0  | 3567.5  | 3582.5  | 3638.0  | 3666.5  | 3627.2  | 3528.2  |
| 35°   | 4859.3  | 4824.1  | 4589.6  | 4181.6  | 3829.2  | 3670.6  | 3666.5  | 3728.8  | 3804.8  | 3716.6  | 3587.9  |
| 37.5° | 5454.3  | 5417.7  | 5135.8  | 4677.7  | 4169.4  | 3887.4  | 3863.0  | 3884.7  | 3917.3  | 3756.0  | 3670.6  |
| 40°   | 6049.4  | 6006.0  | 5759.3  | 5232.0  | 4585.5  | 4174.8  | 4111.1  | 4013.5  | 3999.9  | 3884.7  | 3830.5  |
| 42.5° | 6639.0  | 6599.7  | 6475.0  | 5854.2  | 5084.3  | 4455.4  | 4357.8  | 4189.7  | 4241.2  | 4172.1  | 4124.6  |
| 45°   | 7234.0  | 7236.8  | 7103.9  | 6552.3  | 5686.1  | 4973.2  | 4841.7  | 4578.7  | 4700.7  | 4675.0  | 4702.1  |
| 47.5° | 7761.3  | 7754.5  | 7707.1  | 7230.0  | 6433.0  | 5640.0  | 5470.6  | 5165.6  | 5374.4  | 5469.2  | 5676.6  |
| 50°   | 8272.3  | 8268.3  | 8271.0  | 7998.5  | 7300.5  | 6433.0  | 6245.9  | 5926.0  | 6396.4  | 6725.8  | 7097.1  |
| 52.5° | 9004.3  | 9027.3  | 8863.3  | 8791.5  | 8355.0  | 7369.6  | 7163.6  | 6832.8  | 7604.1  | 8123.2  | 8848.4  |
| 55°   | 9738.9  | 9719.9  | 9591.2  | 9665.7  | 9458.3  | 8478.3  | 8262.8  | 7999.9  | 8948.7  | 9516.6  | 10606.4 |
| 57.5° | 10171.3 | 10178.1 | 10309.6 | 10674.2 | 10820.6 | 9860.9  | 9665.7  | 9462.4  | 10460.0 | 10862.6 | 12170.6 |
| 60°   | 10560.3 | 10591.5 | 10969.7 | 11658.2 | 12055.4 | 11559.3 | 11385.8 | 11187.9 | 11846.6 | 12006.6 | 13528.8 |
| 62.5° | 10682.3 | 10778.6 | 11438.7 | 12468.8 | 13259.0 | 13475.9 | 13260.4 | 12823.9 | 13166.9 | 13104.5 | 14449.1 |
| 65°   | 10073.7 | 10205.2 | 11388.5 | 12772.4 | 14333.9 | 15294.9 | 15158.0 | 14347.5 | 14291.9 | 13916.4 | 14599.6 |
| 67.5° | 8471.6  | 8603.1  | 10122.5 | 12135.4 | 14778.5 | 16870.0 | 16733.1 | 15458.9 | 14975.0 | 13992.3 | 13461.0 |
| 70°   | 6198.5  | 6281.2  | 7734.2  | 10217.4 | 13885.2 | 17398.6 | 17446.0 | 16001.1 | 14731.0 | 12960.8 | 11052.4 |
| 72.5° | 3571.6  | 3754.6  | 4772.5  | 7188.0  | 11343.8 | 16062.1 | 16391.5 | 14873.4 | 13188.5 | 10812.4 | 7727.4  |
| 75°   | 1535.7  | 1539.8  | 2206.7  | 3964.7  | 7682.7  | 12910.7 | 13229.2 | 12329.2 | 10357.0 | 7476.7  | 4126.0  |
| 77.5° | 730.6   | 744.1   | 970.5   | 1770.2  | 4229.0  | 8920.2  | 9779.6  | 8710.1  | 6624.1  | 3591.9  | 1558.8  |
| 80°   | 474.4   | 483.9   | 593.7   | 878.3   | 2073.8  | 5172.4  | 5771.5  | 5024.7  | 2922.4  | 1283.6  | 672.3   |
| 82.5° | 287.4   | 290.1   | 397.1   | 536.8   | 1141.3  | 2342.2  | 2761.1  | 2180.9  | 1247.0  | 768.5   | 395.8   |
| 85°   | 174.9   | 176.2   | 241.3   | 332.1   | 692.6   | 809.2   | 830.9   | 824.1   | 731.9   | 502.9   | 211.5   |
| 87.5° | 84.0    | 86.7    | 124.7   | 157.2   | 272.4   | 250.8   | 237.2   | 275.2   | 345.6   | 271.1   | 90.8    |
| 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°    | 2542.8  | 2542.8  | 2542.8 | 2542.8 | 2542.8 | 2542.8 | 2542.8 | 2542.8 | 2542.8 | 2542.8 | 2542.8 |
| 2.5°  | 2540.1  | 2536.0  | 2526.6 | 2522.5 | 2519.8 | 2521.1 | 2519.8 | 2519.8 | 2521.1 | 2521.1 | 2521.1 |
| 5°    | 2552.3  | 2545.5  | 2530.6 | 2530.6 | 2538.8 | 2557.7 | 2575.4 | 2588.9 | 2603.8 | 2602.5 | 2602.5 |
| 7.5°  | 2605.2  | 2593.0  | 2575.4 | 2580.8 | 2601.1 | 2630.9 | 2662.1 | 2691.9 | 2721.7 | 2724.5 | 2723.1 |
| 10°   | 2682.4  | 2670.2  | 2651.3 | 2658.0 | 2690.6 | 2735.3 | 2774.6 | 2818.0 | 2850.5 | 2860.0 | 2857.3 |
| 12.5° | 2770.5  | 2746.1  | 2729.9 | 2748.9 | 2800.4 | 2860.0 | 2898.0 | 2930.5 | 2953.5 | 2967.1 | 2961.7 |
| 15°   | 2860.0  | 2837.0  | 2818.0 | 2857.3 | 2919.6 | 2975.2 | 2994.2 | 2999.6 | 3003.7 | 3017.2 | 3014.5 |
| 17.5° | 2946.8  | 2915.6  | 2908.8 | 2960.3 | 3019.9 | 3044.3 | 3033.5 | 3010.5 | 2992.8 | 3003.7 | 3002.3 |
| 20°   | 3024.0  | 2999.6  | 2996.9 | 3048.4 | 3071.5 | 3048.4 | 3002.3 | 2961.7 | 2930.5 | 2933.2 | 2931.8 |
| 22.5° | 3097.2  | 3078.2  | 3080.9 | 3102.6 | 3066.0 | 2987.4 | 2911.5 | 2855.9 | 2822.1 | 2828.8 | 2832.9 |
| 25°   | 3178.5  | 3159.6  | 3166.3 | 3131.1 | 3010.5 | 2873.6 | 2763.8 | 2716.3 | 2702.8 | 2716.3 | 2725.8 |
| 27.5° | 3284.3  | 3272.1  | 3268.0 | 3132.4 | 2911.5 | 2705.5 | 2580.8 | 2563.2 | 2575.4 | 2605.2 | 2620.1 |
| 30°   | 3398.1  | 3398.1  | 3376.4 | 3109.4 | 2776.0 | 2503.5 | 2395.1 | 2397.8 | 2439.8 | 2481.8 | 2496.7 |
| 32.5° | 3507.9  | 3531.0  | 3463.2 | 3047.1 | 2601.1 | 2307.0 | 2224.3 | 2227.0 | 2263.6 | 2315.1 | 2328.7 |
| 35°   | 3598.7  | 3665.1  | 3537.7 | 2933.2 | 2395.1 | 2141.6 | 2079.3 | 2042.7 | 2044.0 | 2083.3 | 2094.2 |
| 37.5° | 3723.4  | 3846.8  | 3581.1 | 2763.8 | 2175.5 | 2000.6 | 1930.2 | 1866.5 | 1824.4 | 1808.2 | 1808.2 |
| 40°   | 3940.3  | 4121.9  | 3591.9 | 2513.0 | 1968.1 | 1866.5 | 1766.2 | 1690.2 | 1608.9 | 1535.7 | 1522.2 |
| 42.5° | 4307.6  | 4536.7  | 3570.3 | 2224.3 | 1781.1 | 1718.7 | 1621.1 | 1527.6 | 1415.1 | 1312.1 | 1303.9 |
| 45°   | 4958.2  | 5076.2  | 3512.0 | 1924.7 | 1614.3 | 1576.4 | 1481.5 | 1379.8 | 1260.6 | 1168.4 | 1161.6 |
| 47.5° | 6000.6  | 5833.9  | 3434.7 | 1659.1 | 1462.5 | 1451.7 | 1378.5 | 1260.6 | 1141.3 | 1077.6 | 1070.8 |
| 50°   | 7522.8  | 7026.7  | 3423.9 | 1466.6 | 1340.5 | 1346.0 | 1286.3 | 1177.9 | 1073.5 | 1020.7 | 1012.5 |
| 52.5° | 9355.3  | 8467.5  | 3495.7 | 1331.1 | 1233.5 | 1253.8 | 1224.0 | 1123.7 | 1031.5 | 986.8  | 978.6  |
| 55°   | 11133.7 | 9763.3  | 3539.1 | 1225.3 | 1133.2 | 1171.1 | 1175.2 | 1091.1 | 1007.1 | 962.4  | 956.9  |
| 57.5° | 12577.2 | 10739.2 | 3346.6 | 1129.1 | 1046.4 | 1104.7 | 1134.5 | 1072.2 | 994.9  | 961.0  | 955.6  |
| 60°   | 13581.6 | 11200.1 | 2799.0 | 1043.7 | 982.7  | 1051.8 | 1119.6 | 1073.5 | 1024.7 | 1028.8 | 1031.5 |
| 62.5° | 13901.5 | 10995.4 | 2099.6 | 980.0  | 939.3  | 1034.2 | 1144.0 | 1129.1 | 1078.9 | 1110.1 | 1115.5 |
| 65°   | 13371.5 | 10149.6 | 1522.2 | 929.8  | 901.4  | 1046.4 | 1217.2 | 1169.8 | 1060.0 | 1083.0 | 1083.0 |
| 67.5° | 11597.2 | 8744.0  | 1184.7 | 883.8  | 858.0  | 1069.5 | 1290.4 | 1165.7 | 1015.2 | 1042.3 | 1017.9 |
| 70°   | 9199.5  | 6763.7  | 986.8  | 832.2  | 811.9  | 1035.6 | 1297.2 | 1123.7 | 962.4  | 967.8  | 921.7  |
| 72.5° | 6105.0  | 4447.2  | 848.5  | 783.5  | 741.4  | 931.2  | 1241.6 | 1069.5 | 910.9  | 879.7  | 833.6  |
| 75°   | 2991.5  | 2217.5  | 740.1  | 722.5  | 649.3  | 810.6  | 1165.7 | 1017.9 | 855.3  | 806.5  | 780.7  |
| 77.5° | 1158.9  | 943.4   | 631.6  | 645.2  | 565.2  | 714.3  | 1065.4 | 944.7  | 782.1  | 715.7  | 695.3  |
| 80°   | 562.5   | 535.4   | 517.8  | 538.1  | 464.9  | 608.6  | 973.2  | 881.0  | 714.3  | 641.1  | 611.3  |
| 82.5° | 349.7   | 330.7   | 397.1  | 418.8  | 357.8  | 555.7  | 923.1  | 826.8  | 628.9  | 531.3  | 506.9  |
| 85°   | 177.6   | 189.8   | 265.7  | 286.0  | 256.2  | 441.9  | 760.4  | 620.8  | 454.1  | 376.8  | 379.5  |
| 87.5° | 67.8    | 90.8    | 139.6  | 150.5  | 136.9  | 233.1  | 418.8  | 361.9  | 291.4  | 197.9  | 183.0  |
| 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)