

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: P194123

Luminaire Tested: **GAN-AF-05-LED-U-T4W-8030-1200**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P194123  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
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-T4W-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 26445 lumens  
Efficiency: N/A  
Efficacy: 82.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 320  
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



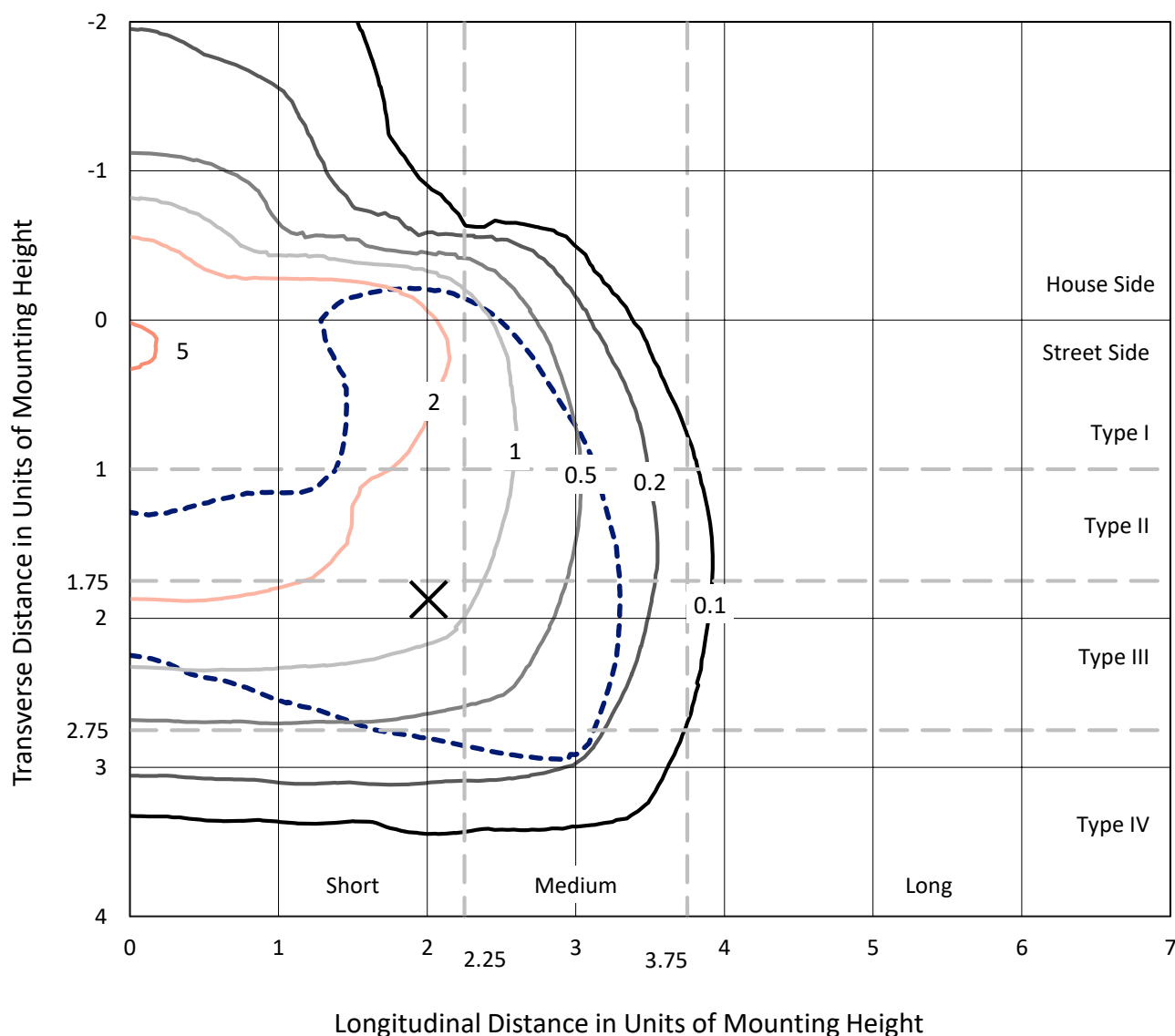
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

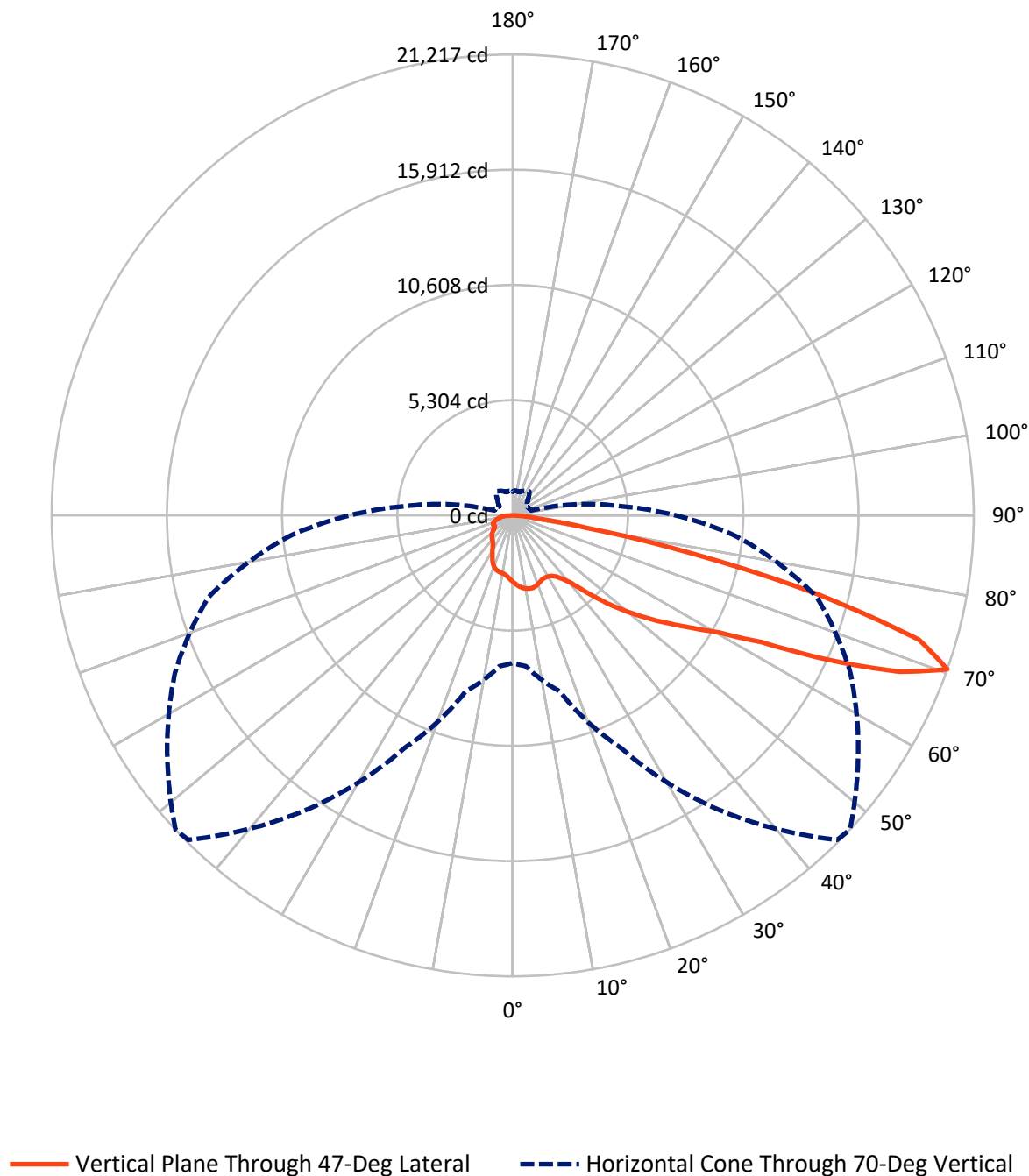


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5516.9   | 0.0    | 5516.9  |
|                    | % Fixture | 20.9     | 0.0    | 20.9    |
| <b>Street Side</b> | Lumens    | 20928.1  | 0.0    | 20928.1 |
|                    | % Fixture | 79.1     | 0.0    | 79.1    |
| <b>Total</b>       | Lumens    | 26445.0  | 0.0    | 26445.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 294.0   | 1.1       |
| 10°-20°   | 862.5   | 3.3       |
| 20°-30°   | 1273.7  | 4.8       |
| 30°-40°   | 1851.4  | 7.0       |
| 40°-50°   | 3331.8  | 12.6      |
| 50°-60°   | 5772.0  | 21.8      |
| 60°-70°   | 8238.3  | 31.2      |
| 70°-80°   | 4229.1  | 16.0      |
| 80°-90°   | 592.1   | 2.2       |
| 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°    | 26445.0 | 100.0     |
| 0°-180°   | 26445.0 | 100.0     |

**Coefficient of Utilization**



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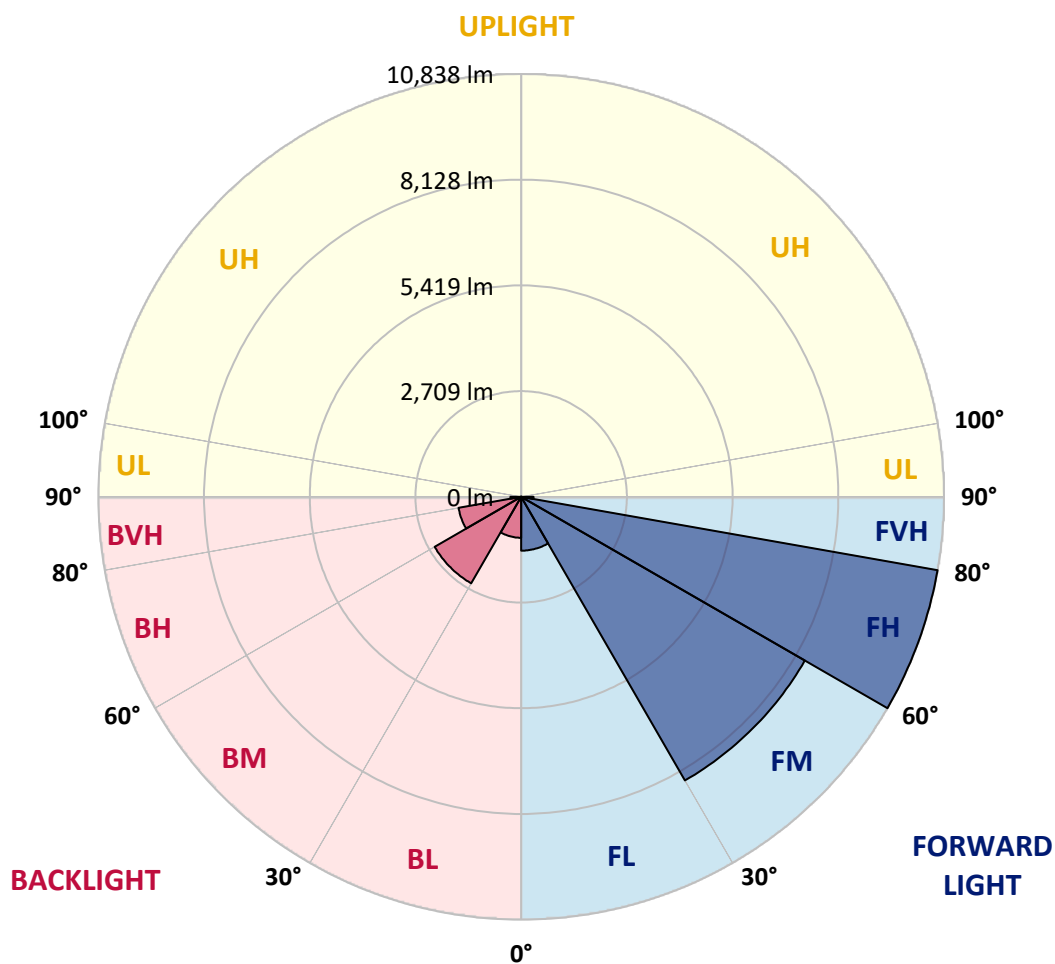
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1379.8  | 5.2       |                         |      |          |
| FM   | (30°-60°)   | 8394.4  | 31.7      |                         |      |          |
| FH   | (60°-80°)   | 10837.9 | 41.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 315.9   | 1.2       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1050.5  | 4.0       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2560.8  | 9.7       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1629.5  | 6.2       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 276.1   | 1.0       |                         |      | G3/500   |
| 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°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3068.4  | 3068.4  | 3068.4  | 3068.4  | 3068.4  | 3068.4  | 3068.4  | 3068.4  | 3068.4  | 3068.4  | 3068.4  |
| 2.5°  | 3248.6  | 3242.1  | 3239.6  | 3234.4  | 3228.0  | 3195.8  | 3189.4  | 3166.2  | 3134.1  | 3100.6  | 3065.9  |
| 5°    | 3462.1  | 3460.8  | 3446.7  | 3421.0  | 3379.8  | 3309.0  | 3292.3  | 3235.7  | 3159.8  | 3086.5  | 3013.1  |
| 7.5°  | 3650.0  | 3638.4  | 3611.4  | 3559.9  | 3487.9  | 3391.4  | 3368.2  | 3289.7  | 3185.5  | 3085.2  | 2986.1  |
| 10°   | 3787.6  | 3781.2  | 3722.0  | 3651.3  | 3557.3  | 3450.6  | 3423.5  | 3336.0  | 3221.5  | 3094.2  | 2970.7  |
| 12.5° | 3866.1  | 3853.2  | 3785.1  | 3700.1  | 3588.2  | 3484.0  | 3457.0  | 3368.2  | 3239.6  | 3094.2  | 2948.8  |
| 15°   | 3861.0  | 3852.0  | 3783.8  | 3691.1  | 3577.9  | 3486.6  | 3462.1  | 3373.4  | 3235.7  | 3081.3  | 2920.5  |
| 17.5° | 3758.0  | 3761.9  | 3704.0  | 3612.7  | 3520.0  | 3450.6  | 3428.7  | 3346.3  | 3210.0  | 3055.6  | 2887.0  |
| 20°   | 3577.9  | 3595.9  | 3557.3  | 3476.3  | 3424.8  | 3377.2  | 3363.1  | 3293.6  | 3170.1  | 3018.3  | 2851.0  |
| 22.5° | 3397.8  | 3414.5  | 3399.1  | 3330.9  | 3323.2  | 3294.9  | 3287.2  | 3237.0  | 3135.3  | 2995.1  | 2829.1  |
| 25°   | 3265.3  | 3280.7  | 3278.2  | 3219.0  | 3242.1  | 3240.8  | 3234.4  | 3210.0  | 3127.6  | 2995.1  | 2833.0  |
| 27.5° | 3229.3  | 3234.4  | 3229.3  | 3175.2  | 3207.4  | 3233.1  | 3228.0  | 3224.1  | 3150.8  | 3032.4  | 2881.9  |
| 30°   | 3352.8  | 3345.1  | 3305.2  | 3195.8  | 3225.4  | 3261.4  | 3256.3  | 3258.9  | 3220.3  | 3130.2  | 2991.2  |
| 32.5° | 3845.5  | 3810.8  | 3684.7  | 3377.2  | 3298.7  | 3318.0  | 3320.6  | 3363.1  | 3369.5  | 3280.7  | 3161.1  |
| 35°   | 4582.7  | 4544.1  | 4380.7  | 3863.5  | 3526.5  | 3459.6  | 3459.6  | 3523.9  | 3562.5  | 3496.9  | 3424.8  |
| 37.5° | 5363.7  | 5321.2  | 5233.7  | 4537.7  | 4005.1  | 3705.3  | 3698.9  | 3743.9  | 3799.2  | 3814.6  | 3832.7  |
| 40°   | 6251.4  | 6206.4  | 6230.8  | 5294.2  | 4672.8  | 4131.1  | 4039.8  | 4007.6  | 4156.9  | 4255.9  | 4400.0  |
| 42.5° | 7222.7  | 7202.2  | 7211.2  | 6136.9  | 5433.1  | 4768.0  | 4638.0  | 4472.1  | 4652.2  | 4828.5  | 5130.8  |
| 45°   | 8122.0  | 8140.1  | 8131.1  | 7038.8  | 6279.7  | 5545.1  | 5407.4  | 5085.8  | 5262.0  | 5564.4  | 6057.1  |
| 47.5° | 8909.4  | 8834.8  | 8950.6  | 8024.3  | 7227.9  | 6414.8  | 6245.0  | 5814.0  | 5992.8  | 6365.9  | 7199.6  |
| 50°   | 9865.3  | 9855.0  | 9685.2  | 9339.1  | 8374.2  | 7288.4  | 7065.8  | 6566.6  | 6844.5  | 7363.0  | 8639.2  |
| 52.5° | 10870.1 | 10683.6 | 10527.9 | 10361.9 | 9590.0  | 8183.8  | 7911.1  | 7316.7  | 7845.4  | 8497.7  | 10394.1 |
| 55°   | 11076.0 | 10992.4 | 11185.3 | 11464.5 | 10762.1 | 9114.0  | 8796.2  | 8257.1  | 8972.5  | 9794.6  | 12417.9 |
| 57.5° | 11516.0 | 11514.7 | 11913.5 | 12411.4 | 11968.9 | 10100.8 | 9780.4  | 9393.2  | 10239.7 | 11280.5 | 14566.4 |
| 60°   | 11813.2 | 11896.8 | 12637.9 | 13604.1 | 13153.8 | 11240.7 | 10946.0 | 10704.2 | 11680.7 | 12941.5 | 16568.3 |
| 62.5° | 11968.9 | 12082.1 | 13093.3 | 14087.8 | 14828.9 | 13138.3 | 12843.7 | 12495.1 | 13587.3 | 14763.3 | 17739.1 |
| 65°   | 11321.7 | 11544.3 | 13022.6 | 14506.0 | 16295.6 | 16214.5 | 16082.0 | 15469.6 | 15971.3 | 16202.9 | 17315.8 |
| 67.5° | 9530.8  | 9758.6  | 11480.0 | 14116.1 | 17342.8 | 19181.3 | 19209.6 | 18163.6 | 17438.0 | 16326.4 | 14558.7 |
| 70°   | 6790.5  | 6969.3  | 8393.5  | 11835.1 | 16545.1 | 21120.2 | 21216.6 | 19405.2 | 17146.0 | 14478.9 | 10171.5 |
| 72.5° | 3224.1  | 3333.5  | 4681.8  | 7702.6  | 13129.3 | 19351.1 | 19537.7 | 17820.1 | 14579.3 | 10719.6 | 5548.9  |
| 75°   | 1184.9  | 1218.4  | 1582.5  | 3276.9  | 7615.1  | 14270.5 | 14490.5 | 12774.2 | 9664.6  | 5336.6  | 2113.8  |
| 77.5° | 710.2   | 732.1   | 887.7   | 1383.1  | 2995.1  | 8156.8  | 8482.3  | 6947.4  | 4223.8  | 1986.4  | 1039.5  |
| 80°   | 496.6   | 512.1   | 636.8   | 860.7   | 1415.2  | 3108.3  | 3397.8  | 2835.6  | 1682.8  | 1257.0  | 756.5   |
| 82.5° | 335.8   | 343.5   | 447.7   | 581.5   | 940.5   | 1110.3  | 1197.8  | 1260.8  | 1134.7  | 935.3   | 479.9   |
| 85°   | 220.0   | 227.7   | 303.6   | 383.4   | 598.2   | 573.8   | 586.7   | 742.3   | 828.5   | 635.6   | 266.3   |
| 87.5° | 126.1   | 131.2   | 182.7   | 204.6   | 293.3   | 243.2   | 245.7   | 391.1   | 530.1   | 428.4   | 162.1   |
| 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°    | 3068.4  | 3068.4  | 3068.4 | 3068.4 | 3068.4 | 3068.4 | 3068.4 | 3068.4 | 3068.4 | 3068.4 | 3068.4 |
| 2.5°  | 3056.9  | 3040.1  | 3002.8 | 2979.7 | 2957.8 | 2952.7 | 2943.6 | 2942.4 | 2941.1 | 2941.1 | 2937.2 |
| 5°    | 2988.7  | 2960.4  | 2902.5 | 2870.3 | 2843.3 | 2840.7 | 2839.4 | 2845.9 | 2848.4 | 2851.0 | 2847.2 |
| 7.5°  | 2944.9  | 2906.3  | 2834.3 | 2788.0 | 2755.8 | 2748.1 | 2761.0 | 2790.5 | 2809.8 | 2817.6 | 2813.7 |
| 10°   | 2917.9  | 2870.3  | 2786.7 | 2736.5 | 2709.5 | 2705.6 | 2722.4 | 2757.1 | 2797.0 | 2812.4 | 2811.1 |
| 12.5° | 2887.0  | 2833.0  | 2744.2 | 2691.5 | 2676.0 | 2683.8 | 2705.6 | 2737.8 | 2779.0 | 2803.4 | 2804.7 |
| 15°   | 2856.2  | 2793.1  | 2701.8 | 2655.5 | 2649.0 | 2659.3 | 2679.9 | 2704.3 | 2736.5 | 2761.0 | 2763.5 |
| 17.5° | 2818.9  | 2753.2  | 2661.9 | 2614.3 | 2609.1 | 2614.3 | 2615.6 | 2628.4 | 2649.0 | 2672.2 | 2678.6 |
| 20°   | 2779.0  | 2712.1  | 2616.9 | 2569.3 | 2546.1 | 2525.5 | 2502.4 | 2504.9 | 2511.4 | 2534.5 | 2539.7 |
| 22.5° | 2750.7  | 2683.8  | 2582.1 | 2516.5 | 2454.8 | 2393.0 | 2346.7 | 2340.3 | 2342.8 | 2362.1 | 2368.6 |
| 25°   | 2753.2  | 2682.5  | 2573.1 | 2459.9 | 2324.8 | 2225.7 | 2164.0 | 2153.7 | 2152.4 | 2166.6 | 2175.6 |
| 27.5° | 2803.4  | 2732.7  | 2606.6 | 2402.0 | 2183.3 | 2036.6 | 1971.0 | 1963.3 | 1953.0 | 1956.9 | 1967.1 |
| 30°   | 2915.3  | 2849.7  | 2687.6 | 2342.8 | 2030.2 | 1851.4 | 1783.2 | 1775.5 | 1761.3 | 1754.9 | 1762.6 |
| 32.5° | 3098.0  | 3044.0  | 2806.0 | 2286.2 | 1877.1 | 1693.1 | 1623.6 | 1606.9 | 1597.9 | 1590.2 | 1596.6 |
| 35°   | 3401.7  | 3378.5  | 2964.2 | 2224.5 | 1742.0 | 1570.9 | 1507.8 | 1482.1 | 1469.3 | 1483.4 | 1493.7 |
| 37.5° | 3877.7  | 3890.6  | 3171.4 | 2128.0 | 1637.8 | 1489.8 | 1437.1 | 1407.5 | 1388.2 | 1399.8 | 1411.4 |
| 40°   | 4551.8  | 4560.9  | 3400.4 | 1991.6 | 1547.7 | 1442.2 | 1385.6 | 1358.6 | 1331.6 | 1311.0 | 1309.7 |
| 42.5° | 5437.0  | 5345.7  | 3625.5 | 1843.6 | 1443.5 | 1412.6 | 1349.6 | 1316.1 | 1275.0 | 1218.4 | 1206.8 |
| 45°   | 6486.8  | 6166.5  | 3796.6 | 1673.8 | 1326.4 | 1376.6 | 1309.7 | 1263.4 | 1199.1 | 1137.3 | 1130.9 |
| 47.5° | 7696.2  | 7047.8  | 3880.3 | 1497.6 | 1217.1 | 1323.9 | 1260.8 | 1187.5 | 1106.4 | 1075.6 | 1071.7 |
| 50°   | 9173.2  | 8093.7  | 3920.1 | 1326.4 | 1121.9 | 1254.4 | 1190.1 | 1103.9 | 1035.7 | 1029.2 | 1025.4 |
| 52.5° | 10854.7 | 9352.0  | 3933.0 | 1186.2 | 1043.4 | 1164.3 | 1132.2 | 1048.5 | 994.5  | 999.7  | 999.7  |
| 55°   | 12614.7 | 10651.4 | 3758.0 | 1084.6 | 971.4  | 1071.7 | 1093.6 | 1026.7 | 981.6  | 1002.2 | 1009.9 |
| 57.5° | 14230.6 | 11802.9 | 3207.4 | 1006.1 | 903.2  | 1000.9 | 1079.4 | 1047.3 | 1016.4 | 1100.0 | 1105.2 |
| 60°   | 15470.9 | 12483.5 | 2395.6 | 935.3  | 853.0  | 976.5  | 1116.7 | 1125.7 | 1133.5 | 1332.9 | 1359.9 |
| 62.5° | 15730.8 | 12257.0 | 1646.8 | 880.0  | 829.8  | 997.1  | 1184.9 | 1186.2 | 1177.2 | 1316.1 | 1332.9 |
| 65°   | 14538.1 | 10825.1 | 1197.8 | 849.1  | 810.5  | 1034.4 | 1242.8 | 1215.8 | 1156.6 | 1262.1 | 1231.2 |
| 67.5° | 11545.6 | 8155.5  | 997.1  | 826.0  | 782.2  | 1031.8 | 1304.6 | 1242.8 | 1145.0 | 1236.4 | 1186.2 |
| 70°   | 7494.2  | 4931.4  | 887.7  | 806.7  | 748.8  | 982.9  | 1340.6 | 1240.2 | 1111.6 | 1150.2 | 1091.0 |
| 72.5° | 3656.4  | 2205.2  | 814.4  | 778.4  | 714.0  | 914.7  | 1339.3 | 1217.1 | 1076.8 | 1074.3 | 1042.1 |
| 75°   | 1430.7  | 1009.9  | 747.5  | 735.9  | 654.9  | 837.5  | 1303.3 | 1183.6 | 1035.7 | 994.5  | 982.9  |
| 77.5° | 837.5   | 720.5   | 662.6  | 672.9  | 584.1  | 760.4  | 1250.5 | 1125.7 | 979.1  | 930.2  | 917.3  |
| 80°   | 609.8   | 539.1   | 564.8  | 581.5  | 499.2  | 683.2  | 1179.8 | 1055.0 | 916.0  | 940.5  | 922.5  |
| 82.5° | 391.1   | 347.4   | 458.0  | 474.7  | 415.6  | 604.7  | 1102.6 | 980.4  | 827.3  | 751.4  | 733.3  |
| 85°   | 199.4   | 220.0   | 340.9  | 361.5  | 320.4  | 496.6  | 1008.7 | 881.3  | 726.9  | 625.3  | 635.6  |
| 87.5° | 111.9   | 150.5   | 217.4  | 243.2  | 226.4  | 382.1  | 818.3  | 726.9  | 593.1  | 482.5  | 424.6  |
| 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)