

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: P193254

Luminaire Tested: **GAN-AF-06-LED-U-T4FT-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193254  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-06-LED-U-T4FT-7030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22822.1 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 193  
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

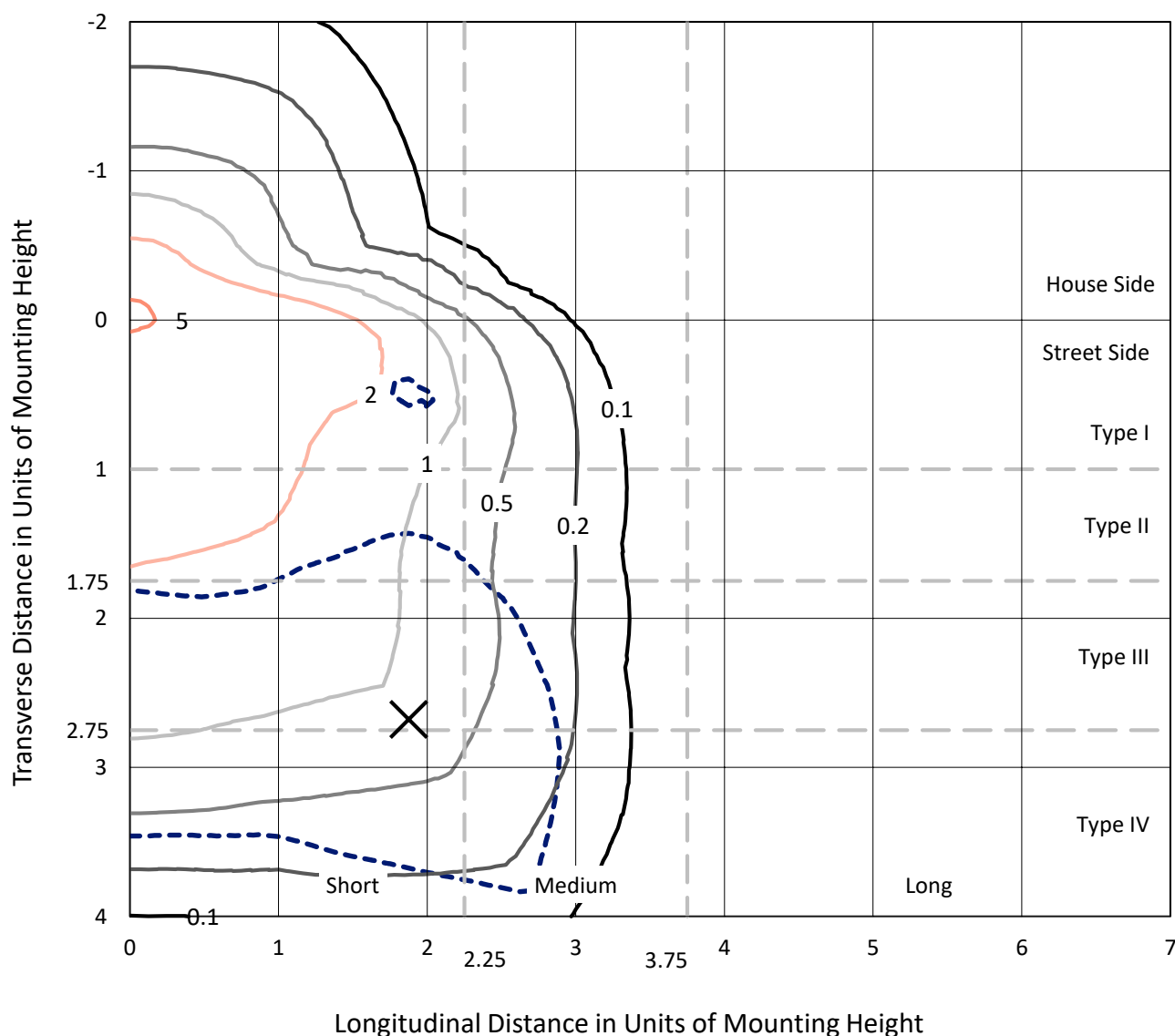


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

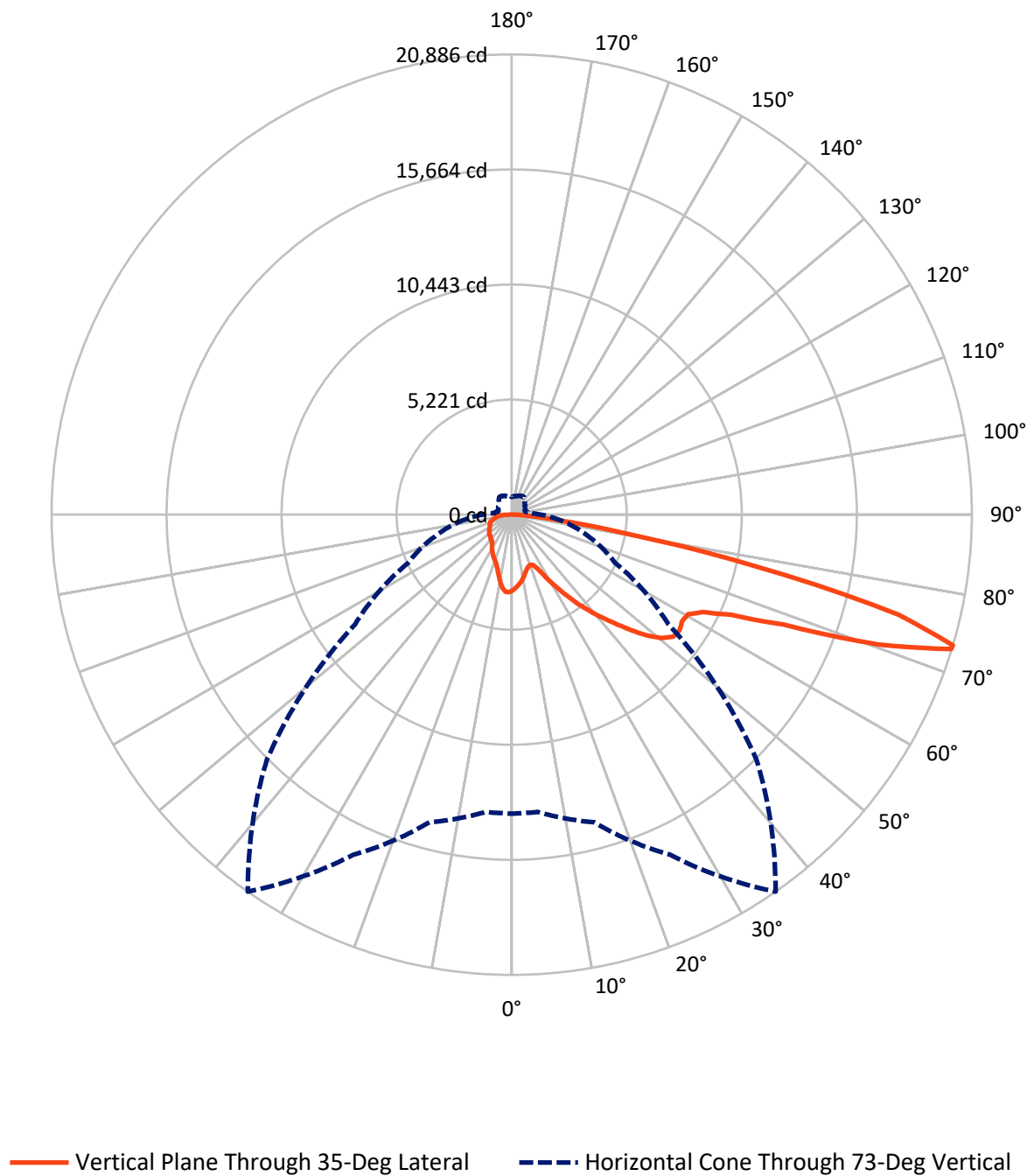


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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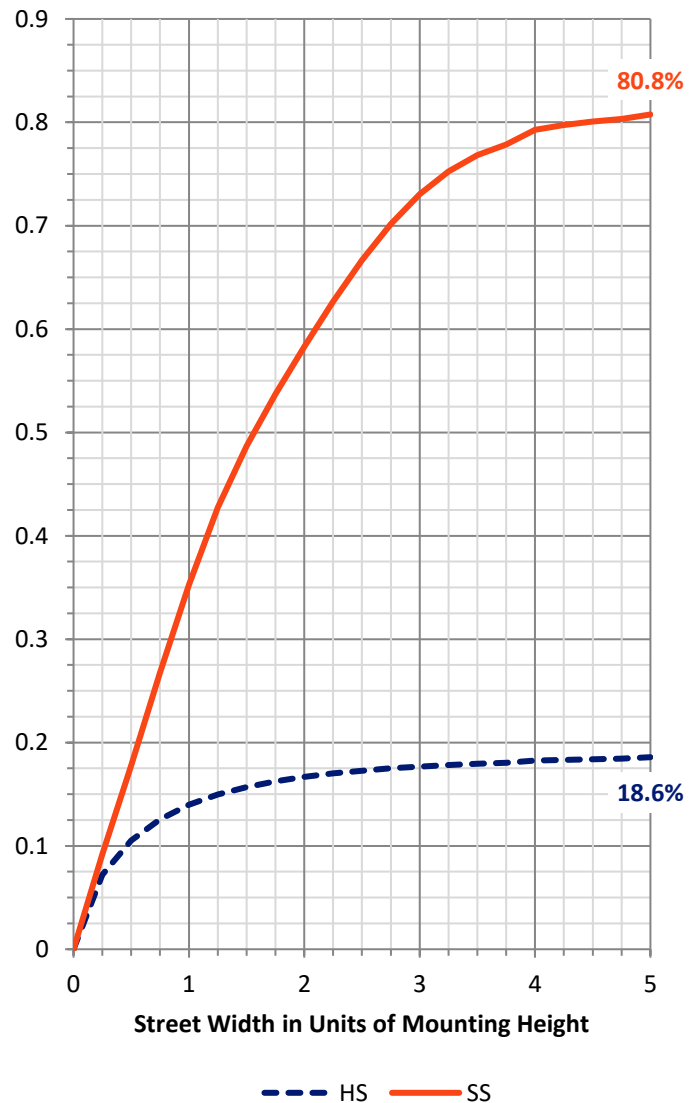
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4352.8   | 0.0    | 4352.8  |
|                    | % Fixture | 19.1     | 0.0    | 19.1    |
| <b>Street Side</b> | Lumens    | 18469.3  | 0.0    | 18469.3 |
|                    | % Fixture | 80.9     | 0.0    | 80.9    |
| <b>Total</b>       | Lumens    | 22822.1  | 0.0    | 22822.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 311.8   | 1.4       |
| 10°-20°   | 778.3   | 3.4       |
| 20°-30°   | 1258.2  | 5.5       |
| 30°-40°   | 2109.8  | 9.2       |
| 40°-50°   | 3252.2  | 14.3      |
| 50°-60°   | 4363.2  | 19.1      |
| 60°-70°   | 5812.7  | 25.5      |
| 70°-80°   | 4433.3  | 19.4      |
| 80°-90°   | 502.5   | 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°    | 22822.1 | 100.0     |
| 0°-180°   | 22822.1 | 100.0     |

**Coefficient of Utilization**



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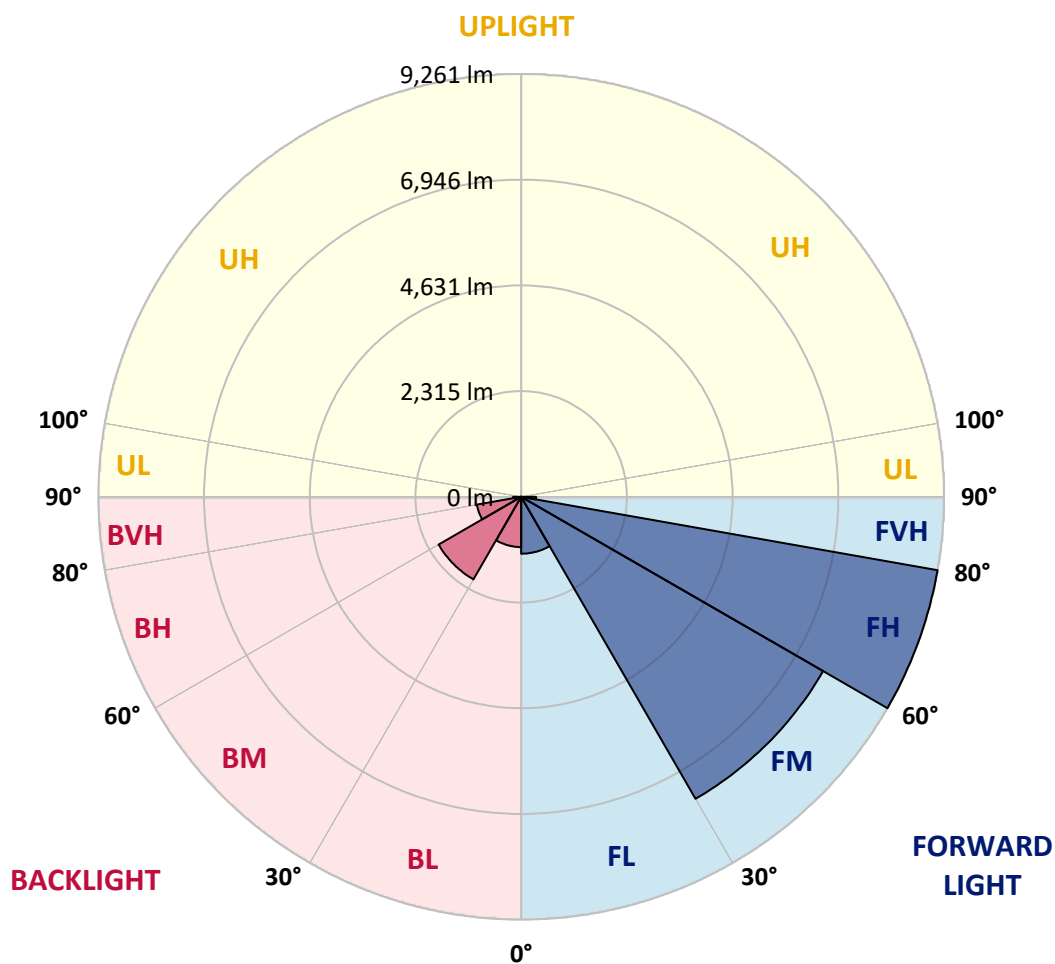
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1246.9 | 5.5       |                         |      |          |
| FM   | (30°-60°)   | 7636.4 | 33.5      |                         |      |          |
| FH   | (60°-80°)   | 9261.2 | 40.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 324.8  | 1.4       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1101.5 | 4.8       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2088.9 | 9.2       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 984.8  | 4.3       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 177.7  | 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°     | 55°     | 65°    | 75°     | 85°    | 90°    |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|---------|--------|--------|
| 0°    | 3444.5  | 3444.5  | 3444.5  | 3444.5  | 3444.5  | 3444.5  | 3444.5  | 3444.5 | 3444.5  | 3444.5 | 3444.5 |
| 2.5°  | 3308.7  | 3315.3  | 3307.6  | 3317.4  | 3333.8  | 3351.4  | 3363.4  | 3381.0 | 3400.7  | 3428.1 | 3434.7 |
| 5°    | 3153.0  | 3162.9  | 3162.9  | 3180.4  | 3212.2  | 3240.7  | 3267.1  | 3295.5 | 3337.1  | 3384.3 | 3402.9 |
| 7.5°  | 2982.1  | 2987.5  | 2997.4  | 3023.7  | 3069.7  | 3110.3  | 3147.5  | 3193.5 | 3250.6  | 3313.1 | 3345.9 |
| 10°   | 2776.1  | 2783.7  | 2799.0  | 2836.3  | 2898.7  | 2954.7  | 3008.4  | 3072.0 | 3144.3  | 3222.0 | 3263.7 |
| 12.5° | 2630.3  | 2628.1  | 2634.7  | 2662.1  | 2716.8  | 2784.8  | 2862.6  | 2943.7 | 3032.5  | 3123.4 | 3173.9 |
| 15°   | 2580.9  | 2568.9  | 2543.7  | 2537.1  | 2566.7  | 2634.7  | 2724.5  | 2824.3 | 2930.6  | 3040.1 | 3102.6 |
| 17.5° | 2611.7  | 2590.9  | 2521.8  | 2471.3  | 2467.0  | 2518.5  | 2613.8  | 2725.6 | 2848.4  | 2982.1 | 3060.0 |
| 20°   | 2804.5  | 2755.2  | 2585.3  | 2468.0  | 2427.5  | 2452.8  | 2536.0  | 2654.4 | 2799.0  | 2976.5 | 3076.3 |
| 22.5° | 3265.9  | 3193.5  | 2833.0  | 2614.9  | 2477.9  | 2447.3  | 2509.6  | 2635.8 | 2804.5  | 3044.5 | 3171.7 |
| 25°   | 3937.7  | 3834.7  | 3258.2  | 2980.9  | 2698.2  | 2535.0  | 2549.1  | 2678.5 | 2882.4  | 3202.4 | 3355.8 |
| 27.5° | 4468.1  | 4401.3  | 3813.9  | 3497.2  | 3099.3  | 2771.7  | 2677.4  | 2785.9 | 3041.2  | 3461.0 | 3617.7 |
| 30°   | 4783.8  | 4743.3  | 4407.8  | 4082.4  | 3611.1  | 3148.7  | 2922.9  | 2987.5 | 3290.1  | 3819.3 | 3948.7 |
| 32.5° | 5149.8  | 5125.8  | 4961.4  | 4662.2  | 4163.6  | 3644.1  | 3311.9  | 3288.9 | 3623.1  | 4250.0 | 4309.3 |
| 35°   | 5529.1  | 5521.4  | 5424.9  | 5210.1  | 4756.4  | 4297.1  | 3828.1  | 3672.5 | 3986.0  | 4697.3 | 4660.0 |
| 37.5° | 5882.0  | 5868.8  | 5812.9  | 5687.9  | 5376.7  | 4998.6  | 4354.2  | 4066.0 | 4377.3  | 5124.7 | 4959.2 |
| 40°   | 6531.8  | 6428.9  | 6237.1  | 6142.8  | 6003.6  | 5589.3  | 4771.8  | 4433.0 | 4782.8  | 5532.4 | 5217.7 |
| 42.5° | 7324.2  | 7156.5  | 6799.2  | 6669.9  | 6650.2  | 6055.1  | 5056.7  | 4789.3 | 5191.5  | 5936.7 | 5472.0 |
| 45°   | 7947.8  | 7789.9  | 7482.1  | 7318.7  | 7391.1  | 6477.0  | 5342.8  | 5169.6 | 5612.3  | 6360.8 | 5734.0 |
| 47.5° | 8613.0  | 8365.3  | 7957.7  | 8006.9  | 8164.8  | 6876.0  | 5634.3  | 5578.3 | 6073.7  | 6835.4 | 6059.5 |
| 50°   | 8637.2  | 8447.6  | 8269.0  | 8563.7  | 8809.2  | 7243.2  | 5999.2  | 6006.8 | 6638.1  | 7432.7 | 6492.4 |
| 52.5° | 8136.3  | 8095.8  | 8379.6  | 8843.2  | 9197.2  | 7533.5  | 6414.6  | 6449.7 | 7360.4  | 8118.7 | 6968.0 |
| 55°   | 7960.9  | 7915.0  | 8242.6  | 8745.6  | 9249.8  | 7773.6  | 6865.0  | 6928.5 | 8233.9  | 8842.2 | 7431.6 |
| 57.5° | 8388.4  | 8286.4  | 8308.4  | 8699.7  | 9121.5  | 8036.6  | 7356.0  | 7484.3 | 9182.9  | 9474.4 | 7729.8 |
| 60°   | 9582.9  | 9364.8  | 8950.6  | 8940.6  | 9190.6  | 8431.1  | 7923.7  | 8080.4 | 10169.3 | 9776.9 | 7613.5 |
| 62.5° | 11258.6 | 11040.5 | 10264.7 | 9759.4  | 9722.1  | 9082.0  | 8620.7  | 8662.4 | 10739.2 | 9367.1 | 6904.4 |
| 65°   | 13072.5 | 12877.4 | 12010.5 | 11297.0 | 10952.9 | 10160.6 | 9430.6  | 8922.1 | 10553.0 | 8239.3 | 5663.9 |
| 67.5° | 15274.2 | 15064.8 | 14319.6 | 13661.0 | 13329.9 | 11900.8 | 9999.4  | 8673.3 | 9370.3  | 6382.8 | 4071.4 |
| 70°   | 16814.0 | 16600.3 | 16306.6 | 16840.3 | 17650.2 | 14411.8 | 10072.8 | 7661.8 | 6998.7  | 4242.4 | 2450.5 |
| 72.5° | 14805.1 | 14705.4 | 15241.3 | 17489.1 | 20862.4 | 15935.0 | 9105.1  | 5578.3 | 4064.9  | 2252.2 | 1418.1 |
| 73°   | 13564.5 | 13542.5 | 14456.6 | 17034.3 | 20885.5 | 15700.5 | 8680.9  | 5184.9 | 3486.3  | 1992.5 | 1296.5 |
| 75°   | 6125.3  | 6301.7  | 8305.2  | 13011.0 | 18145.6 | 12937.6 | 6109.9  | 2974.4 | 1969.4  | 1376.5 | 978.6  |
| 77.5° | 1471.8  | 1533.2  | 2598.5  | 6178.9  | 11459.2 | 7710.0  | 2768.4  | 1470.7 | 1259.2  | 972.1  | 714.5  |
| 80°   | 626.9   | 647.7   | 1000.6  | 2282.9  | 5395.3  | 3104.8  | 1275.7  | 985.3  | 871.3   | 678.4  | 500.9  |
| 82.5° | 348.5   | 370.4   | 567.7   | 1035.7  | 2177.6  | 1058.7  | 778.2   | 686.0  | 573.2   | 408.7  | 325.5  |
| 85°   | 197.3   | 209.3   | 332.0   | 578.6   | 922.8   | 425.2   | 465.8   | 455.9  | 323.3   | 210.5  | 159.9  |
| 87.5° | 93.2    | 100.8   | 159.9   | 268.6   | 361.6   | 166.6   | 236.8   | 260.8  | 202.7   | 128.3  | 83.2   |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3444.5 | 3444.5 | 3444.5 | 3444.5 | 3444.5 | 3444.5 | 3444.5 | 3444.5 | 3444.5 | 3444.5 |
| 2.5°  | 3442.3 | 3462.1 | 3485.2 | 3497.2 | 3508.1 | 3521.3 | 3534.4 | 3534.4 | 3536.6 | 3537.7 |
| 5°    | 3418.2 | 3458.8 | 3494.9 | 3510.3 | 3513.6 | 3513.6 | 3510.3 | 3492.8 | 3477.4 | 3484.1 |
| 7.5°  | 3367.8 | 3427.0 | 3457.7 | 3452.3 | 3410.6 | 3362.4 | 3321.8 | 3272.6 | 3247.3 | 3243.0 |
| 10°   | 3295.5 | 3363.4 | 3368.9 | 3314.2 | 3211.1 | 3108.1 | 3022.6 | 2939.3 | 2899.8 | 2890.0 |
| 12.5° | 3215.5 | 3278.0 | 3243.0 | 3130.1 | 2964.5 | 2814.4 | 2706.0 | 2621.4 | 2584.2 | 2574.3 |
| 15°   | 3150.8 | 3193.5 | 3104.8 | 2927.3 | 2719.0 | 2560.2 | 2470.3 | 2407.7 | 2381.6 | 2373.7 |
| 17.5° | 3116.8 | 3125.7 | 2963.4 | 2723.4 | 2502.0 | 2369.4 | 2313.6 | 2283.9 | 2274.1 | 2268.7 |
| 20°   | 3133.3 | 3072.0 | 2828.6 | 2533.8 | 2324.5 | 2231.3 | 2218.2 | 2210.6 | 2208.3 | 2205.1 |
| 22.5° | 3215.5 | 3055.6 | 2704.8 | 2354.1 | 2168.9 | 2128.4 | 2139.3 | 2138.2 | 2136.0 | 2133.9 |
| 25°   | 3362.4 | 3069.7 | 2584.2 | 2183.1 | 2038.4 | 2029.7 | 2049.3 | 2049.3 | 2040.6 | 2040.6 |
| 27.5° | 3556.4 | 3099.3 | 2449.5 | 2021.0 | 1920.1 | 1921.3 | 1936.5 | 1932.1 | 1922.3 | 1915.8 |
| 30°   | 3793.1 | 3117.9 | 2291.6 | 1875.2 | 1809.5 | 1805.1 | 1809.5 | 1790.8 | 1761.2 | 1759.0 |
| 32.5° | 4035.3 | 3095.0 | 2108.6 | 1745.9 | 1692.1 | 1682.3 | 1679.0 | 1652.6 | 1618.6 | 1608.9 |
| 35°   | 4254.4 | 3010.5 | 1922.3 | 1642.8 | 1580.3 | 1558.5 | 1573.8 | 1565.0 | 1534.3 | 1526.7 |
| 37.5° | 4414.5 | 2853.9 | 1754.6 | 1551.8 | 1500.3 | 1494.8 | 1504.7 | 1508.0 | 1471.8 | 1464.2 |
| 40°   | 4521.9 | 2641.3 | 1611.0 | 1475.1 | 1485.1 | 1464.2 | 1431.3 | 1408.3 | 1397.3 | 1394.0 |
| 42.5° | 4608.4 | 2419.9 | 1490.6 | 1439.0 | 1488.3 | 1428.0 | 1356.8 | 1319.6 | 1339.3 | 1348.0 |
| 45°   | 4708.2 | 2204.0 | 1389.7 | 1394.0 | 1471.8 | 1386.4 | 1305.3 | 1269.1 | 1276.8 | 1279.0 |
| 47.5° | 4845.2 | 1940.9 | 1281.2 | 1321.7 | 1417.1 | 1357.9 | 1273.5 | 1221.9 | 1185.8 | 1169.4 |
| 50°   | 5034.7 | 1629.7 | 1168.3 | 1240.6 | 1363.3 | 1337.0 | 1224.1 | 1169.4 | 1102.5 | 1087.1 |
| 52.5° | 5166.4 | 1339.3 | 1075.1 | 1172.7 | 1315.2 | 1295.4 | 1184.7 | 1113.5 | 1043.3 | 1030.2 |
| 55°   | 5095.1 | 1112.4 | 994.0  | 1097.1 | 1251.6 | 1243.9 | 1151.8 | 1056.5 | 1001.7 | 990.8  |
| 57.5° | 4738.9 | 968.8  | 931.6  | 1025.8 | 1173.8 | 1200.1 | 1108.0 | 1008.3 | 968.8  | 961.2  |
| 60°   | 4059.4 | 879.0  | 892.1  | 977.6  | 1110.2 | 1156.2 | 1064.1 | 982.0  | 955.7  | 950.2  |
| 62.5° | 3149.7 | 818.7  | 862.5  | 942.5  | 1060.9 | 1125.6 | 1040.0 | 978.6  | 968.8  | 962.2  |
| 65°   | 2256.5 | 770.5  | 830.7  | 907.4  | 1015.9 | 1097.1 | 1031.3 | 974.3  | 976.4  | 971.0  |
| 67.5° | 1533.2 | 727.6  | 792.3  | 867.9  | 972.1  | 1071.9 | 1019.3 | 959.0  | 986.4  | 979.7  |
| 70°   | 1072.9 | 686.0  | 747.5  | 817.6  | 917.3  | 1036.8 | 997.3  | 936.0  | 933.7  | 907.4  |
| 72.5° | 837.3  | 631.3  | 686.0  | 747.5  | 847.2  | 987.4  | 953.5  | 884.5  | 848.3  | 820.9  |
| 73°   | 798.9  | 618.1  | 670.8  | 732.1  | 831.8  | 975.3  | 941.4  | 870.1  | 829.6  | 804.4  |
| 75°   | 660.9  | 561.1  | 609.3  | 664.2  | 766.0  | 918.5  | 882.3  | 805.6  | 754.0  | 738.7  |
| 77.5° | 519.5  | 479.9  | 526.1  | 575.4  | 675.1  | 835.1  | 794.6  | 721.1  | 692.6  | 679.5  |
| 80°   | 384.7  | 397.8  | 438.3  | 482.3  | 585.2  | 746.4  | 710.1  | 636.8  | 763.8  | 732.1  |
| 82.5° | 270.8  | 301.3  | 338.6  | 378.1  | 491.0  | 659.7  | 615.9  | 540.3  | 559.0  | 464.7  |
| 85°   | 159.9  | 197.3  | 232.4  | 266.3  | 354.0  | 546.9  | 508.5  | 430.7  | 352.9  | 336.4  |
| 87.5° | 93.2   | 109.6  | 119.4  | 154.5  | 243.3  | 412.1  | 358.4  | 318.9  | 183.0  | 123.8  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)