

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: P191491

Luminaire Tested: **GAN-AF-03-LED-U-T3R-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191491  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-03-LED-U-T3R-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19006.4 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G3

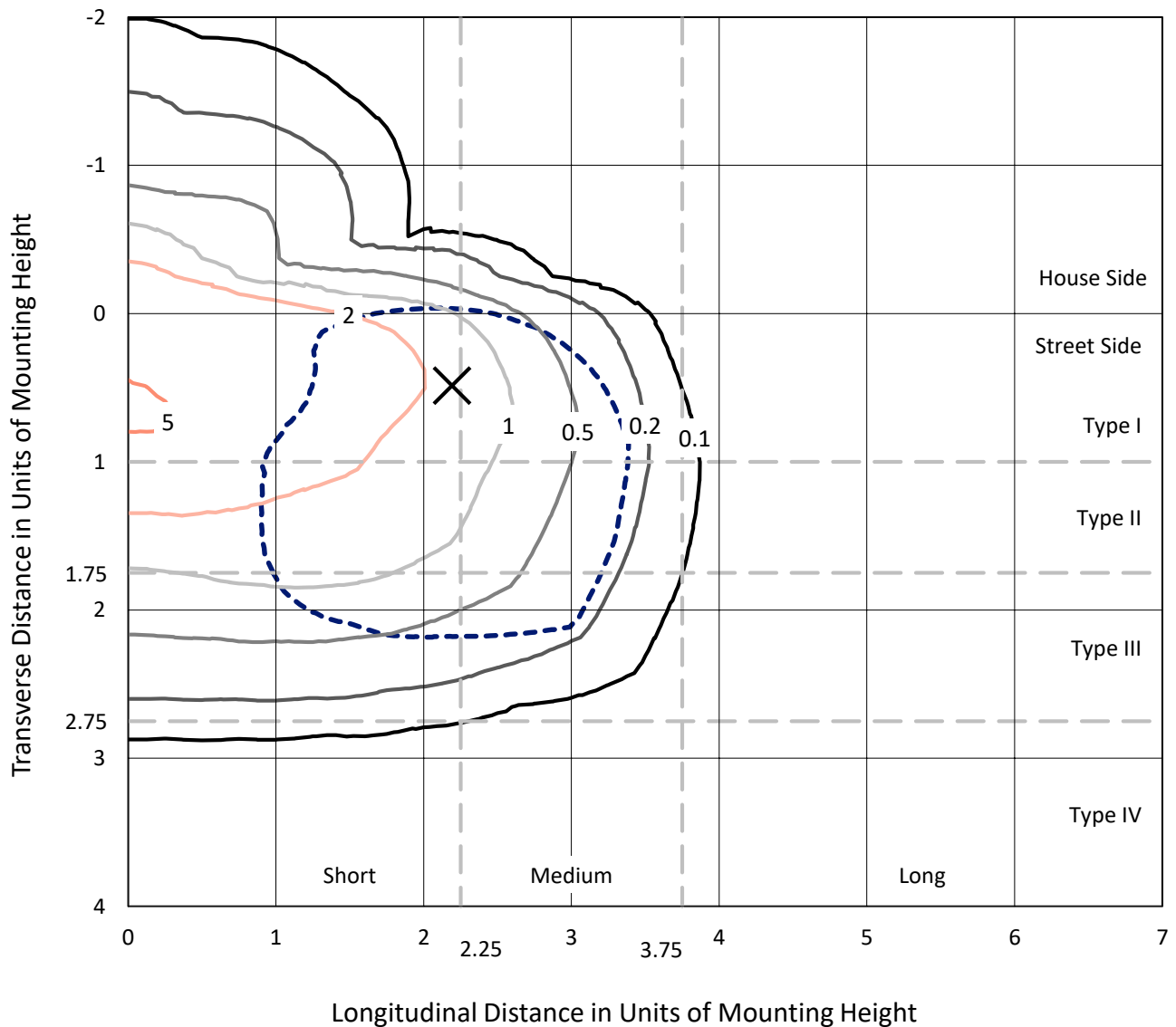
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

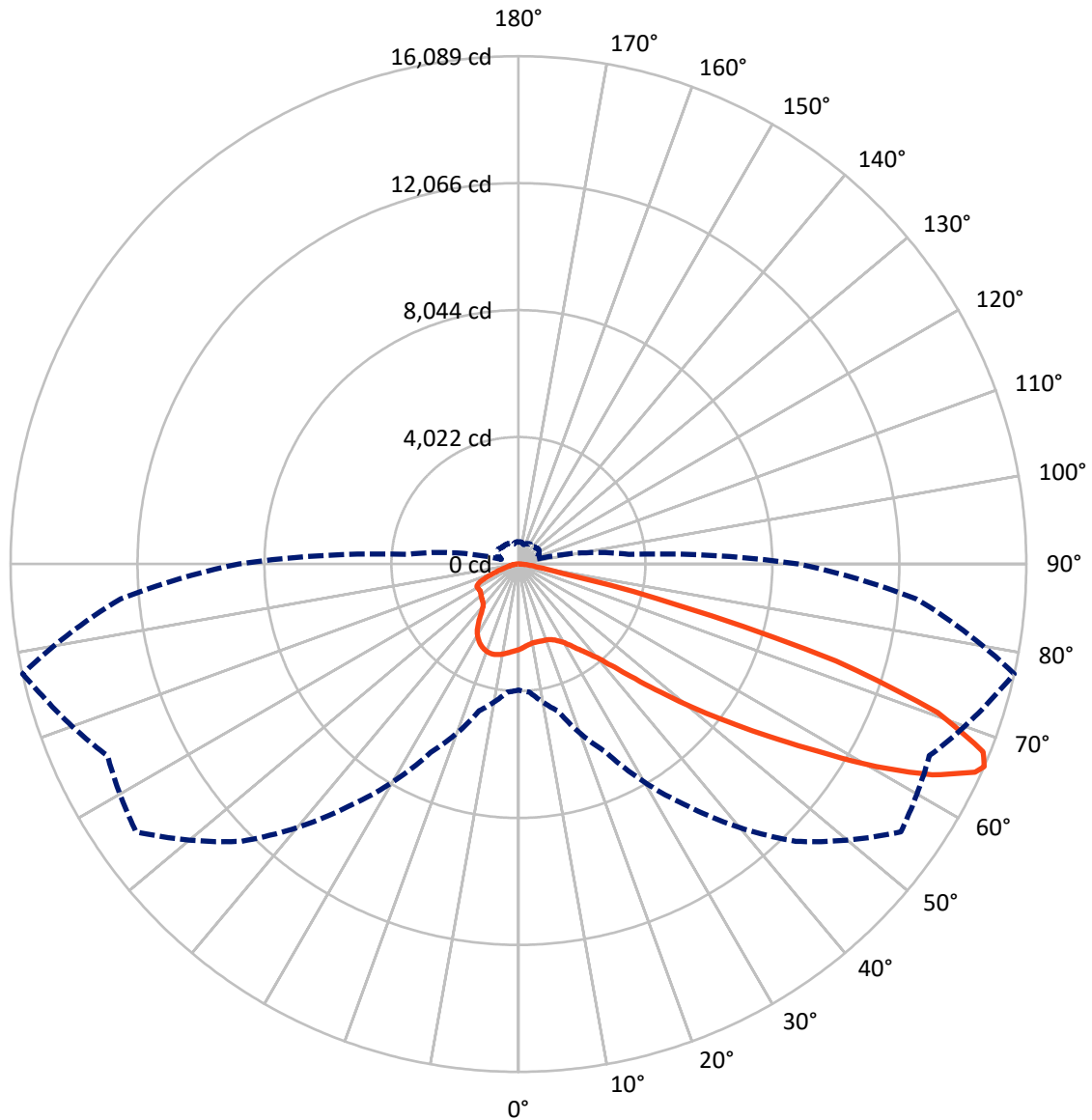
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3247.1   | 0.0    | 3247.1  |
|                    | % Fixture | 17.1     | 0.0    | 17.1    |
| <b>Street Side</b> | Lumens    | 15759.3  | 0.0    | 15759.3 |
|                    | % Fixture | 82.9     | 0.0    | 82.9    |
| <b>Total</b>       | Lumens    | 19006.4  | 0.0    | 19006.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 242.0   | 1.3       |
| 10°-20°   | 682.7   | 3.6       |
| 20°-30°   | 1165.1  | 6.1       |
| 30°-40°   | 1865.1  | 9.8       |
| 40°-50°   | 2881.4  | 15.2      |
| 50°-60°   | 4086.8  | 21.5      |
| 60°-70°   | 5467.1  | 28.8      |
| 70°-80°   | 2374.2  | 12.5      |
| 80°-90°   | 242.1   | 1.3       |
| 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°    | 19006.4 | 100.0     |
| 0°-180°   | 19006.4 | 100.0     |

**Coefficient of Utilization**



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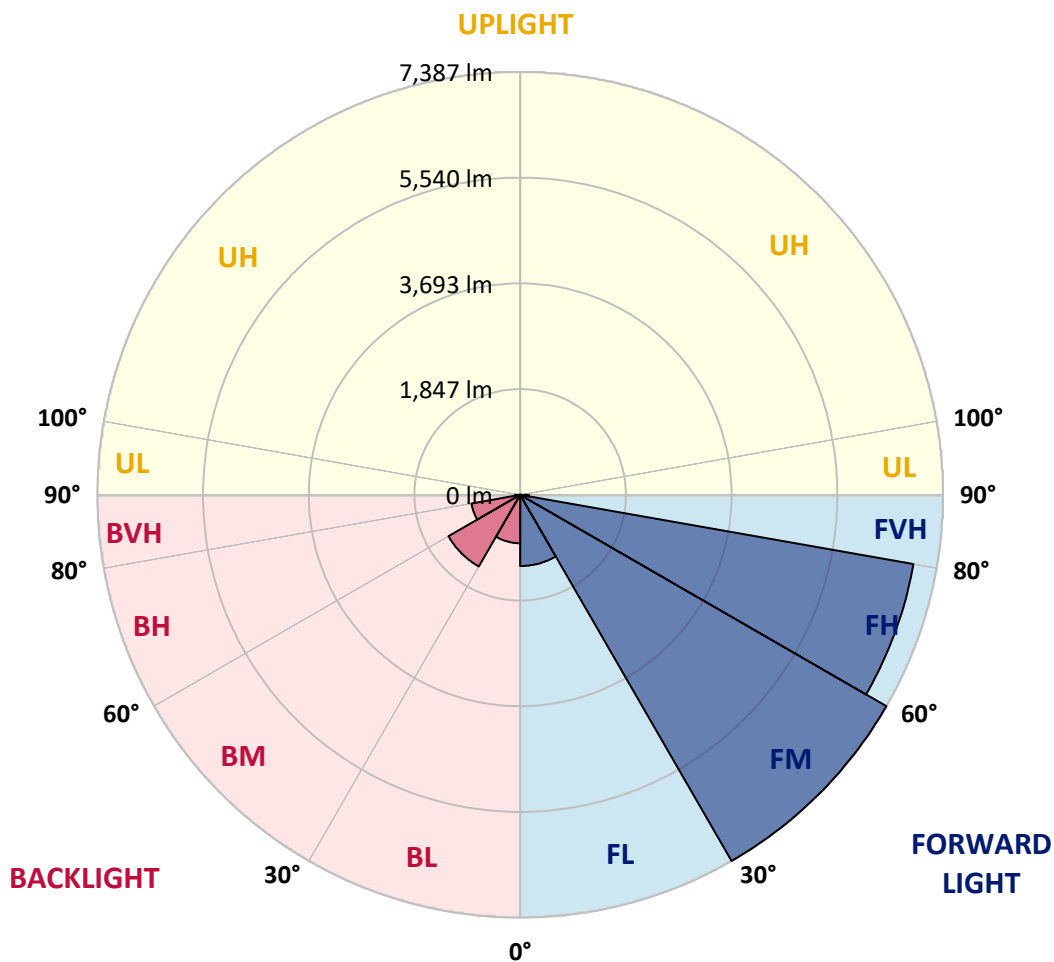
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1244.1 | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 7386.9 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 6976.5 | 36.7      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 151.8  | 0.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 845.7  | 4.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1446.4 | 7.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 864.8  | 4.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 90.3   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 65°     | 75°     | 77.5°   | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 2708.5 | 2708.5 | 2708.5 | 2708.5 | 2708.5 | 2708.5  | 2708.5  | 2708.5  | 2708.5  | 2708.5  | 2708.5  |
| 2.5°  | 2396.0 | 2412.1 | 2425.6 | 2438.2 | 2463.4 | 2504.7  | 2552.3  | 2590.8  | 2646.6  | 2657.3  | 2687.0  |
| 5°    | 2175.9 | 2175.9 | 2186.8 | 2205.6 | 2239.8 | 2301.7  | 2366.4  | 2452.5  | 2573.8  | 2602.5  | 2681.6  |
| 7.5°  | 2069.1 | 2070.0 | 2076.3 | 2092.4 | 2122.1 | 2178.7  | 2249.6  | 2351.0  | 2515.4  | 2563.0  | 2697.7  |
| 10°   | 2108.6 | 2099.6 | 2086.2 | 2078.1 | 2082.5 | 2115.8  | 2183.2  | 2296.3  | 2479.5  | 2540.6  | 2733.6  |
| 12.5° | 2329.6 | 2312.5 | 2265.7 | 2203.8 | 2144.5 | 2120.3  | 2159.8  | 2270.2  | 2464.3  | 2535.2  | 2781.2  |
| 15°   | 2690.6 | 2683.4 | 2596.2 | 2467.9 | 2324.1 | 2203.8  | 2176.8  | 2260.4  | 2466.0  | 2541.4  | 2837.9  |
| 17.5° | 3143.1 | 3133.3 | 3018.3 | 2831.5 | 2597.2 | 2362.7  | 2237.0  | 2268.5  | 2472.4  | 2552.3  | 2892.6  |
| 20°   | 3600.3 | 3569.7 | 3445.8 | 3223.1 | 2922.3 | 2579.2  | 2336.7  | 2289.2  | 2480.5  | 2563.9  | 2950.1  |
| 22.5° | 3941.5 | 3916.4 | 3805.1 | 3588.6 | 3241.9 | 2829.8  | 2470.5  | 2325.1  | 2506.4  | 2598.1  | 3021.0  |
| 25°   | 4241.5 | 4243.3 | 4132.8 | 3923.5 | 3565.3 | 3095.6  | 2643.0  | 2421.1  | 2572.9  | 2668.1  | 3118.1  |
| 27.5° | 4612.4 | 4590.8 | 4487.6 | 4280.1 | 3885.0 | 3364.1  | 2851.3  | 2553.2  | 2671.6  | 2767.8  | 3245.5  |
| 30°   | 5056.0 | 5040.7 | 4921.3 | 4686.0 | 4239.7 | 3652.3  | 3089.3  | 2706.7  | 2799.2  | 2898.9  | 3412.6  |
| 32.5° | 5577.7 | 5570.6 | 5446.6 | 5144.0 | 4649.2 | 3991.9  | 3368.6  | 2909.7  | 2989.6  | 3092.9  | 3652.3  |
| 35°   | 6190.2 | 6191.1 | 6044.7 | 5681.1 | 5097.3 | 4386.9  | 3685.6  | 3171.0  | 3221.3  | 3329.1  | 3938.0  |
| 37.5° | 6567.4 | 6613.2 | 6558.4 | 6187.5 | 5604.7 | 4828.8  | 4096.9  | 3517.6  | 3485.3  | 3593.9  | 4244.1  |
| 40°   | 6648.3 | 6703.9 | 6877.2 | 6688.7 | 6172.3 | 5315.6  | 4461.5  | 3850.8  | 3810.4  | 3943.3  | 4638.4  |
| 42.5° | 6535.1 | 6612.4 | 6978.7 | 7111.7 | 6774.9 | 5915.4  | 4951.8  | 4345.6  | 4294.4  | 4473.2  | 5128.8  |
| 45°   | 6467.7 | 6525.2 | 6949.1 | 7331.7 | 7297.5 | 6593.4  | 5576.0  | 4967.1  | 4948.2  | 5182.6  | 5694.5  |
| 47.5° | 6351.0 | 6403.1 | 6810.8 | 7382.8 | 7604.6 | 7214.9  | 6325.8  | 5726.9  | 5763.6  | 6070.8  | 6333.0  |
| 50°   | 6413.8 | 6435.4 | 6656.3 | 7252.6 | 7693.5 | 7670.2  | 7163.7  | 6606.9  | 6732.7  | 7116.2  | 7055.9  |
| 52.5° | 6404.9 | 6460.5 | 6638.3 | 7038.9 | 7705.3 | 7951.3  | 7989.0  | 7588.5  | 7853.4  | 8293.5  | 7857.9  |
| 55°   | 5178.2 | 5280.5 | 6427.3 | 6985.0 | 7746.5 | 8227.0  | 8723.6  | 8623.1  | 9116.9  | 9629.8  | 8763.1  |
| 57.5° | 4944.6 | 5009.3 | 5645.2 | 7098.2 | 7965.6 | 8753.3  | 9540.9  | 9761.7  | 10588.0 | 11183.4 | 9866.0  |
| 60°   | 4898.8 | 4978.8 | 5637.1 | 7236.5 | 8410.2 | 9610.9  | 10752.3 | 11140.2 | 12377.8 | 13029.7 | 11144.7 |
| 62.5° | 4756.0 | 4842.2 | 5584.1 | 7218.5 | 9041.6 | 10797.2 | 12303.2 | 12605.8 | 14075.1 | 14709.1 | 12214.3 |
| 65°   | 4303.5 | 4384.3 | 5152.1 | 6928.4 | 9467.2 | 12063.5 | 14138.8 | 13949.4 | 15414.9 | 15891.8 | 12747.8 |
| 66°   | 3993.6 | 4072.7 | 4811.8 | 6587.2 | 9368.4 | 12422.7 | 14789.0 | 14365.1 | 15714.9 | 16088.5 | 12643.6 |
| 67.5° | 3427.0 | 3488.9 | 4150.7 | 5822.9 | 8843.1 | 12523.3 | 15336.0 | 14677.7 | 15746.4 | 15878.3 | 12048.2 |
| 70°   | 2165.2 | 2183.2 | 2697.7 | 4019.7 | 6694.0 | 10861.0 | 14503.4 | 13901.8 | 14447.7 | 14090.3 | 10100.3 |
| 72.5° | 939.4  | 933.0  | 1295.0 | 2044.9 | 3789.7 | 7287.6  | 11732.1 | 11470.8 | 11333.4 | 10517.9 | 7070.3  |
| 75°   | 522.6  | 529.9  | 672.6  | 949.2  | 1540.2 | 3579.6  | 7674.7  | 7344.2  | 6201.0  | 5291.3  | 3206.0  |
| 77.5° | 419.4  | 429.2  | 557.7  | 673.5  | 691.5  | 1248.3  | 3591.3  | 2922.3  | 1759.3  | 1411.8  | 890.9   |
| 80°   | 331.3  | 349.3  | 486.7  | 524.5  | 466.1  | 514.5   | 1160.2  | 927.7   | 696.0   | 638.5   | 461.6   |
| 82.5° | 262.2  | 274.8  | 417.6  | 396.9  | 326.0  | 346.7   | 555.9   | 541.6   | 452.7   | 412.2   | 266.7   |
| 85°   | 188.6  | 212.0  | 343.1  | 299.0  | 213.7  | 233.5   | 369.1   | 353.8   | 259.5   | 212.0   | 117.6   |
| 87.5° | 77.2   | 100.6  | 242.4  | 198.5  | 119.5  | 108.6   | 184.1   | 173.3   | 123.1   | 89.8    | 58.4    |
| 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°    | 2708.5 | 2708.5 | 2708.5 | 2708.5 | 2708.5 | 2708.5 | 2708.5 | 2708.5 | 2708.5 | 2708.5 | 2708.5 |
| 2.5°  | 2705.8 | 2727.4 | 2755.2 | 2772.3 | 2781.2 | 2787.5 | 2797.5 | 2796.5 | 2799.2 | 2800.1 | 2803.7 |
| 5°    | 2723.8 | 2759.7 | 2800.1 | 2810.9 | 2810.9 | 2801.0 | 2791.1 | 2775.0 | 2768.7 | 2766.9 | 2768.7 |
| 7.5°  | 2770.5 | 2809.9 | 2845.0 | 2832.4 | 2805.5 | 2766.0 | 2714.8 | 2669.9 | 2645.7 | 2637.6 | 2635.7 |
| 10°   | 2829.8 | 2877.4 | 2891.7 | 2844.1 | 2765.0 | 2669.9 | 2568.4 | 2494.8 | 2452.5 | 2440.9 | 2437.3 |
| 12.5° | 2901.6 | 2946.5 | 2926.8 | 2826.1 | 2679.7 | 2526.2 | 2386.1 | 2268.5 | 2180.4 | 2152.6 | 2150.9 |
| 15°   | 2980.6 | 3015.7 | 2946.5 | 2770.5 | 2552.3 | 2326.0 | 2076.3 | 1873.3 | 1763.8 | 1728.8 | 1726.0 |
| 17.5° | 3054.2 | 3072.2 | 2934.8 | 2673.5 | 2364.6 | 1998.1 | 1666.8 | 1510.5 | 1472.8 | 1481.7 | 1483.6 |
| 20°   | 3117.1 | 3117.1 | 2895.3 | 2534.3 | 2069.1 | 1566.2 | 1356.9 | 1354.3 | 1381.2 | 1408.1 | 1413.5 |
| 22.5° | 3186.3 | 3145.0 | 2826.1 | 2337.6 | 1650.6 | 1281.6 | 1251.0 | 1276.1 | 1306.6 | 1336.3 | 1340.8 |
| 25°   | 3271.6 | 3167.4 | 2730.1 | 2039.5 | 1297.7 | 1163.9 | 1175.6 | 1196.2 | 1211.5 | 1230.3 | 1233.1 |
| 27.5° | 3366.7 | 3196.1 | 2603.4 | 1629.0 | 1126.2 | 1090.3 | 1099.2 | 1106.4 | 1104.6 | 1111.7 | 1113.6 |
| 30°   | 3480.8 | 3229.4 | 2430.1 | 1273.5 | 1055.2 | 1027.3 | 1011.2 | 1004.9 | 1004.9 | 1016.6 | 1021.1 |
| 32.5° | 3633.5 | 3278.8 | 2181.3 | 1091.1 | 1021.1 | 982.4  | 930.4  | 907.1  | 916.1  | 955.5  | 964.5  |
| 35°   | 3801.4 | 3331.8 | 1844.6 | 1029.2 | 1013.8 | 961.8  | 881.0  | 837.9  | 838.8  | 875.5  | 887.3  |
| 37.5° | 3984.6 | 3399.1 | 1475.5 | 1017.5 | 1030.0 | 962.7  | 855.0  | 795.7  | 771.4  | 771.4  | 775.9  |
| 40°   | 4219.1 | 3468.2 | 1194.4 | 1025.6 | 1064.2 | 973.4  | 841.5  | 762.4  | 694.2  | 696.0  | 699.6  |
| 42.5° | 4524.3 | 3527.5 | 1043.5 | 1042.6 | 1105.5 | 987.9  | 840.6  | 718.4  | 659.2  | 699.6  | 736.4  |
| 45°   | 4863.8 | 3557.2 | 977.1  | 1057.9 | 1138.7 | 996.9  | 826.2  | 711.3  | 663.7  | 784.0  | 854.1  |
| 47.5° | 5254.5 | 3540.1 | 940.3  | 1063.3 | 1146.8 | 996.9  | 810.1  | 728.3  | 695.1  | 908.0  | 989.6  |
| 50°   | 5682.8 | 3490.7 | 904.3  | 1052.5 | 1144.1 | 995.0  | 825.3  | 745.4  | 706.8  | 929.5  | 986.0  |
| 52.5° | 6186.6 | 3449.4 | 866.6  | 1029.2 | 1125.2 | 985.2  | 843.2  | 738.2  | 669.9  | 845.1  | 884.5  |
| 55°   | 6761.4 | 3461.1 | 824.4  | 995.9  | 1095.6 | 966.3  | 837.0  | 709.4  | 631.4  | 744.5  | 768.7  |
| 57.5° | 7496.0 | 3600.3 | 774.1  | 953.7  | 1055.2 | 934.9  | 814.6  | 696.0  | 619.6  | 675.4  | 689.7  |
| 60°   | 8315.9 | 3842.7 | 711.3  | 911.6  | 1004.9 | 884.5  | 797.5  | 702.3  | 625.0  | 669.9  | 677.1  |
| 62.5° | 8917.6 | 3983.8 | 657.3  | 849.6  | 936.6  | 828.9  | 775.9  | 710.3  | 639.4  | 688.8  | 687.0  |
| 65°   | 9081.0 | 3752.1 | 590.0  | 758.8  | 844.1  | 770.5  | 749.0  | 719.3  | 645.7  | 704.1  | 696.0  |
| 66°   | 8852.0 | 3502.4 | 560.4  | 716.7  | 797.5  | 741.7  | 735.5  | 718.4  | 643.0  | 705.8  | 692.4  |
| 67.5° | 8296.1 | 2990.5 | 509.2  | 654.7  | 722.9  | 698.7  | 713.9  | 710.3  | 635.9  | 704.1  | 685.2  |
| 70°   | 6765.9 | 2040.4 | 435.6  | 545.1  | 601.7  | 615.2  | 672.6  | 681.6  | 612.4  | 672.6  | 631.4  |
| 72.5° | 4727.4 | 1242.9 | 385.2  | 423.0  | 486.7  | 524.5  | 616.0  | 642.1  | 581.0  | 587.3  | 547.8  |
| 75°   | 2284.7 | 660.1  | 349.3  | 327.8  | 378.1  | 438.2  | 547.8  | 588.2  | 531.6  | 491.2  | 476.9  |
| 77.5° | 712.2  | 403.2  | 296.3  | 264.0  | 296.3  | 353.8  | 458.0  | 515.5  | 473.3  | 411.3  | 405.9  |
| 80°   | 382.6  | 296.3  | 228.1  | 212.0  | 234.4  | 277.5  | 360.1  | 430.2  | 406.8  | 369.1  | 329.6  |
| 82.5° | 252.4  | 192.2  | 168.8  | 164.4  | 178.7  | 212.0  | 267.6  | 356.5  | 356.5  | 316.1  | 229.9  |
| 85°   | 130.2  | 117.6  | 115.8  | 115.8  | 124.8  | 141.0  | 182.3  | 274.8  | 292.8  | 167.0  | 138.3  |
| 87.5° | 64.7   | 67.3   | 62.9   | 65.6   | 70.1   | 69.2   | 87.2   | 138.3  | 165.2  | 101.5  | 84.4   |
| 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)