

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: P194023

Luminaire Tested: **GAN-AF-05-LED-U-T3R-8030-800**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P194023  
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-05-LED-U-T3R-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 20054 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 210  
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



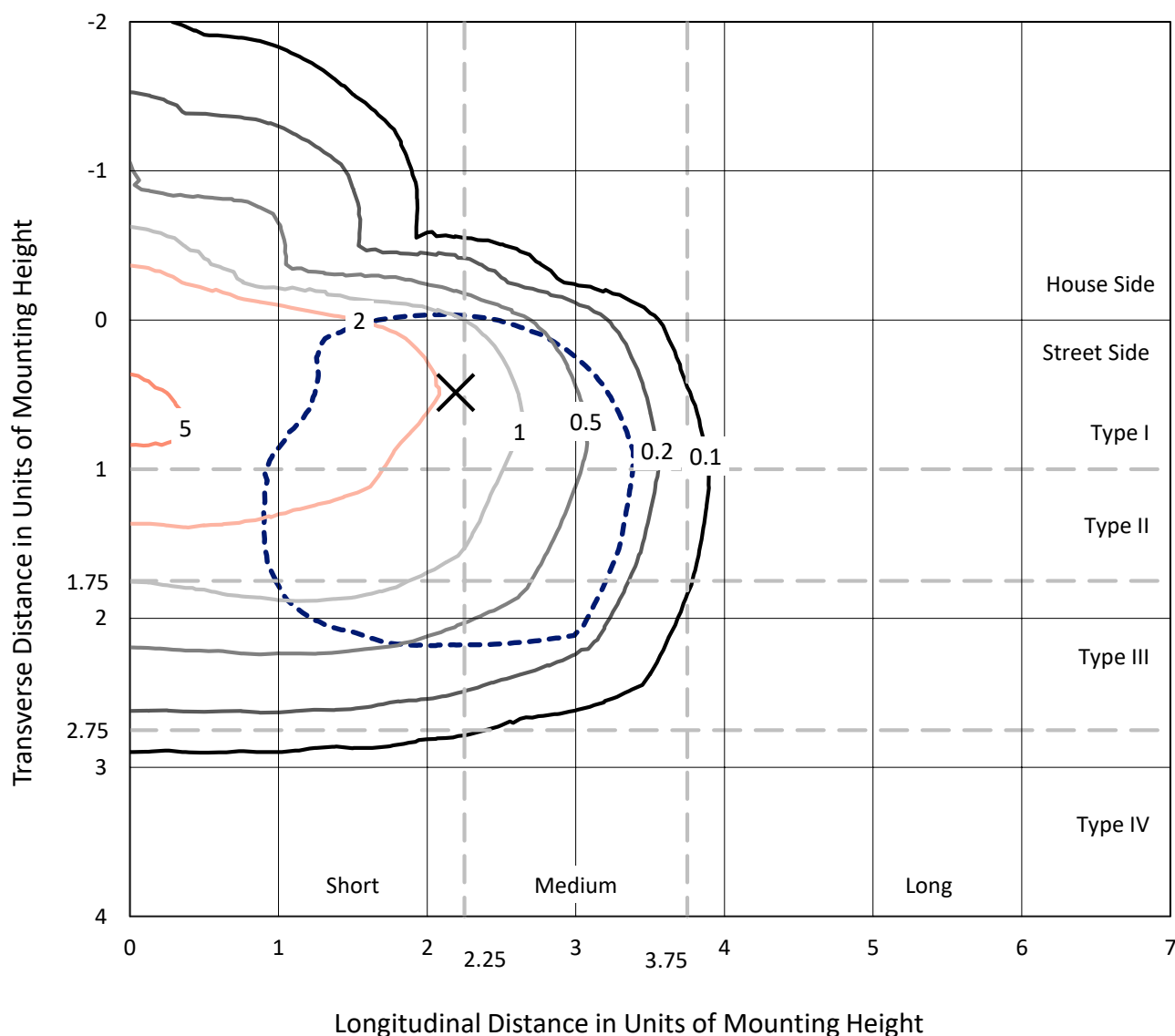
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

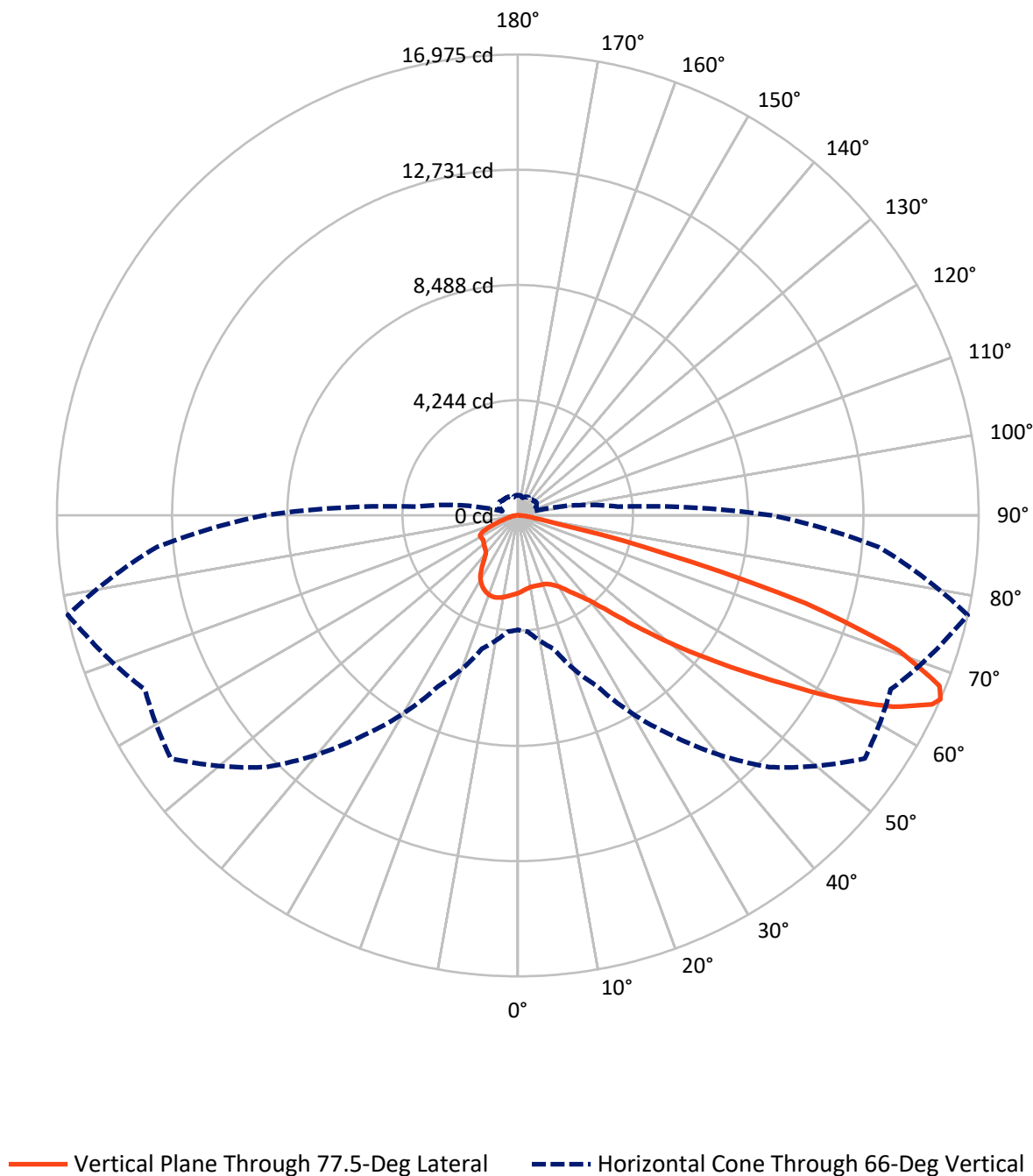


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3426.1   | 0.0    | 3426.1  |
|                    | % Fixture | 17.1     | 0.0    | 17.1    |
| <b>Street Side</b> | Lumens    | 16627.9  | 0.0    | 16627.9 |
|                    | % Fixture | 82.9     | 0.0    | 82.9    |
| <b>Total</b>       | Lumens    | 20054.0  | 0.0    | 20054.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 255.3   | 1.3       |
| 10°-20°   | 720.3   | 3.6       |
| 20°-30°   | 1229.3  | 6.1       |
| 30°-40°   | 1967.9  | 9.8       |
| 40°-50°   | 3040.2  | 15.2      |
| 50°-60°   | 4312.1  | 21.5      |
| 60°-70°   | 5768.4  | 28.8      |
| 70°-80°   | 2505.1  | 12.5      |
| 80°-90°   | 255.4   | 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°    | 20054.0 | 100.0     |
| 0°-180°   | 20054.0 | 100.0     |

**Coefficient of Utilization**



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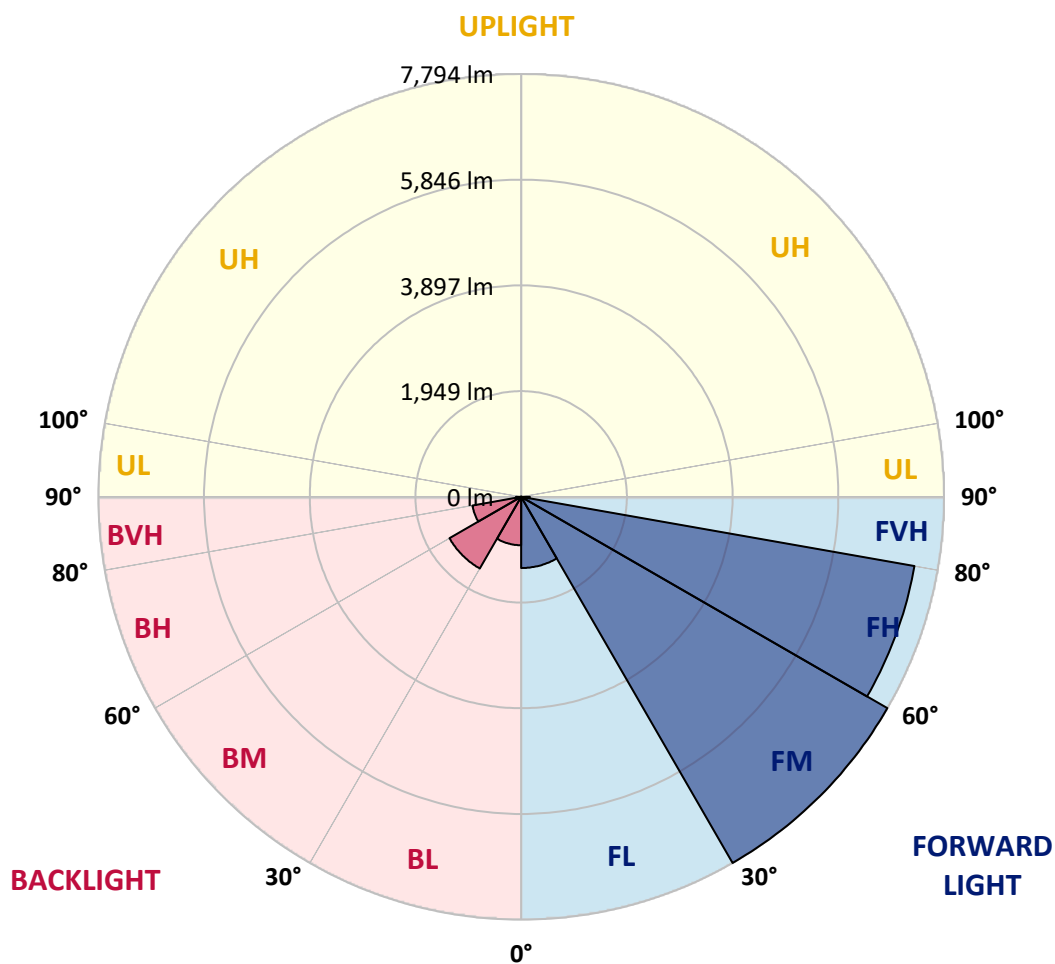
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1312.6 | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 7794.0 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 7361.0 | 36.7      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 160.2  | 0.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 892.3  | 4.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1526.1 | 7.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 912.4  | 4.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 95.2   | 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°    | 2857.8 | 2857.8 | 2857.8 | 2857.8 | 2857.8 | 2857.8  | 2857.8  | 2857.8  | 2857.8  | 2857.8  | 2857.8  |
| 2.5°  | 2528.0 | 2545.1 | 2559.3 | 2572.6 | 2599.1 | 2642.7  | 2692.9  | 2733.7  | 2792.4  | 2803.8  | 2835.0  |
| 5°    | 2295.9 | 2295.9 | 2307.3 | 2327.2 | 2363.2 | 2428.6  | 2496.8  | 2587.7  | 2715.7  | 2746.0  | 2829.4  |
| 7.5°  | 2183.1 | 2184.1 | 2190.7 | 2207.8 | 2239.0 | 2298.7  | 2373.6  | 2480.7  | 2654.1  | 2704.3  | 2846.4  |
| 10°   | 2224.8 | 2215.4 | 2201.1 | 2192.6 | 2197.4 | 2232.4  | 2303.5  | 2422.9  | 2616.2  | 2680.6  | 2884.3  |
| 12.5° | 2457.9 | 2439.9 | 2390.7 | 2325.3 | 2262.7 | 2237.1  | 2278.8  | 2395.4  | 2600.1  | 2674.9  | 2934.5  |
| 15°   | 2838.8 | 2831.3 | 2739.3 | 2603.8 | 2452.2 | 2325.3  | 2296.8  | 2385.0  | 2602.0  | 2681.5  | 2994.2  |
| 17.5° | 3316.4 | 3306.0 | 3184.7 | 2987.6 | 2740.3 | 2493.0  | 2360.3  | 2393.5  | 2608.6  | 2692.9  | 3052.0  |
| 20°   | 3798.7 | 3766.5 | 3635.7 | 3400.7 | 3083.3 | 2721.3  | 2465.5  | 2415.3  | 2617.1  | 2705.2  | 3112.7  |
| 22.5° | 4158.8 | 4132.2 | 4014.7 | 3786.4 | 3420.6 | 2985.7  | 2606.7  | 2453.2  | 2644.6  | 2741.2  | 3187.5  |
| 25°   | 4475.2 | 4477.1 | 4360.6 | 4139.8 | 3761.7 | 3266.2  | 2788.6  | 2554.6  | 2714.7  | 2815.2  | 3289.9  |
| 27.5° | 4866.6 | 4843.8 | 4734.9 | 4516.0 | 4099.1 | 3549.5  | 3008.4  | 2693.9  | 2818.9  | 2920.3  | 3424.4  |
| 30°   | 5334.7 | 5318.6 | 5192.5 | 4944.3 | 4473.4 | 3853.7  | 3259.5  | 2855.9  | 2953.5  | 3058.7  | 3600.7  |
| 32.5° | 5885.2 | 5877.6 | 5746.8 | 5427.5 | 4905.4 | 4211.8  | 3554.2  | 3070.0  | 3154.4  | 3263.3  | 3853.7  |
| 35°   | 6531.4 | 6532.4 | 6377.9 | 5994.2 | 5378.3 | 4628.7  | 3888.7  | 3345.8  | 3398.8  | 3512.5  | 4155.0  |
| 37.5° | 6929.4 | 6977.7 | 6919.9 | 6528.6 | 5913.6 | 5094.9  | 4322.7  | 3711.5  | 3677.4  | 3792.1  | 4478.1  |
| 40°   | 7014.7 | 7073.4 | 7256.3 | 7057.3 | 6512.5 | 5608.5  | 4707.4  | 4063.1  | 4020.4  | 4160.7  | 4894.1  |
| 42.5° | 6895.3 | 6976.8 | 7363.4 | 7503.6 | 7148.3 | 6241.5  | 5224.8  | 4585.2  | 4531.2  | 4719.7  | 5411.4  |
| 45°   | 6824.2 | 6884.8 | 7332.1 | 7735.7 | 7699.7 | 6956.9  | 5883.3  | 5240.9  | 5221.0  | 5468.3  | 6008.4  |
| 47.5° | 6701.0 | 6756.0 | 7186.2 | 7789.8 | 8023.8 | 7612.6  | 6674.5  | 6042.5  | 6081.3  | 6405.4  | 6682.1  |
| 50°   | 6767.4 | 6790.1 | 7023.2 | 7652.4 | 8117.6 | 8093.0  | 7558.6  | 6971.1  | 7103.7  | 7508.3  | 7444.8  |
| 52.5° | 6757.9 | 6816.6 | 7004.2 | 7426.8 | 8129.9 | 8389.5  | 8429.3  | 8006.7  | 8286.3  | 8750.6  | 8291.0  |
| 55°   | 5463.5 | 5571.6 | 6781.6 | 7370.0 | 8173.5 | 8680.4  | 9204.4  | 9098.3  | 9619.5  | 10160.5 | 9246.1  |
| 57.5° | 5217.2 | 5285.4 | 5956.3 | 7489.4 | 8404.7 | 9235.7  | 10066.7 | 10299.8 | 11171.5 | 11799.8 | 10409.7 |
| 60°   | 5168.8 | 5253.2 | 5947.7 | 7635.3 | 8873.7 | 10140.6 | 11344.9 | 11754.3 | 13060.0 | 13747.9 | 11759.0 |
| 62.5° | 5018.2 | 5109.2 | 5891.8 | 7616.4 | 9539.9 | 11392.3 | 12981.3 | 13300.7 | 14850.8 | 15519.8 | 12887.5 |
| 65°   | 4540.6 | 4625.9 | 5436.1 | 7310.3 | 9989.0 | 12728.3 | 14918.1 | 14718.2 | 16264.6 | 16767.7 | 13450.4 |
| 66°   | 4213.7 | 4297.1 | 5076.9 | 6950.2 | 9884.8 | 13107.4 | 15604.1 | 15156.9 | 16581.1 | 16975.2 | 13340.5 |
| 67.5° | 3615.8 | 3681.2 | 4379.5 | 6143.9 | 9330.5 | 13213.5 | 16181.2 | 15486.6 | 16614.2 | 16753.5 | 12712.2 |
| 70°   | 2284.5 | 2303.5 | 2846.4 | 4241.2 | 7063.0 | 11459.6 | 15302.8 | 14668.0 | 15244.1 | 14867.0 | 10657.0 |
| 72.5° | 991.1  | 984.5  | 1366.4 | 2157.6 | 3998.6 | 7689.3  | 12378.7 | 12103.0 | 11958.0 | 11097.6 | 7460.0  |
| 75°   | 551.5  | 559.1  | 709.7  | 1001.6 | 1625.0 | 3776.9  | 8097.7  | 7749.0  | 6542.8  | 5582.9  | 3382.7  |
| 77.5° | 442.5  | 452.9  | 588.4  | 710.7  | 729.6  | 1317.1  | 3789.2  | 3083.3  | 1856.2  | 1489.5  | 940.0   |
| 80°   | 349.6  | 368.6  | 513.6  | 553.4  | 491.8  | 542.9   | 1224.2  | 978.8   | 734.3   | 673.7   | 487.0   |
| 82.5° | 276.7  | 289.9  | 440.6  | 418.8  | 344.0  | 365.8   | 586.5   | 571.4   | 477.6   | 434.9   | 281.4   |
| 85°   | 199.0  | 223.6  | 362.0  | 315.5  | 225.5  | 246.4   | 389.4   | 373.3   | 273.8   | 223.6   | 124.1   |
| 87.5° | 81.5   | 106.1  | 255.8  | 209.4  | 126.0  | 114.7   | 194.2   | 182.9   | 129.8   | 94.8    | 61.6    |
| 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°    | 2857.8 | 2857.8 | 2857.8 | 2857.8 | 2857.8 | 2857.8 | 2857.8 | 2857.8 | 2857.8 | 2857.8 | 2857.8 |
| 2.5°  | 2854.9 | 2877.7 | 2907.1 | 2925.1 | 2934.5 | 2941.2 | 2951.6 | 2950.6 | 2953.5 | 2954.4 | 2958.2 |
| 5°    | 2873.9 | 2911.8 | 2954.4 | 2965.8 | 2965.8 | 2955.4 | 2945.0 | 2927.9 | 2921.3 | 2919.4 | 2921.3 |
| 7.5°  | 2923.2 | 2964.9 | 3001.8 | 2988.6 | 2960.1 | 2918.4 | 2864.4 | 2817.0 | 2791.5 | 2782.9 | 2781.0 |
| 10°   | 2985.7 | 3035.9 | 3051.1 | 3000.9 | 2917.5 | 2817.0 | 2710.0 | 2632.3 | 2587.7 | 2575.4 | 2571.6 |
| 12.5° | 3061.5 | 3108.9 | 3088.0 | 2981.9 | 2827.5 | 2665.4 | 2517.6 | 2393.5 | 2300.6 | 2271.3 | 2269.4 |
| 15°   | 3144.9 | 3181.9 | 3108.9 | 2923.2 | 2692.9 | 2454.1 | 2190.7 | 1976.6 | 1861.0 | 1824.0 | 1821.2 |
| 17.5° | 3222.6 | 3241.5 | 3096.6 | 2820.8 | 2494.9 | 2108.3 | 1758.6 | 1593.8 | 1554.0 | 1563.4 | 1565.3 |
| 20°   | 3288.9 | 3288.9 | 3054.9 | 2674.0 | 2183.1 | 1652.5 | 1431.7 | 1428.9 | 1457.3 | 1485.7 | 1491.4 |
| 22.5° | 3361.9 | 3318.3 | 2981.9 | 2466.5 | 1741.6 | 1352.1 | 1319.9 | 1346.5 | 1378.7 | 1409.9 | 1414.7 |
| 25°   | 3451.9 | 3342.0 | 2880.5 | 2151.9 | 1369.2 | 1228.0 | 1240.3 | 1262.1 | 1278.2 | 1298.1 | 1301.0 |
| 27.5° | 3552.3 | 3372.3 | 2746.9 | 1718.8 | 1188.2 | 1150.3 | 1159.8 | 1167.4 | 1165.5 | 1173.1 | 1175.0 |
| 30°   | 3672.7 | 3407.4 | 2564.1 | 1343.6 | 1113.4 | 1084.0 | 1066.9 | 1060.3 | 1060.3 | 1072.6 | 1077.4 |
| 32.5° | 3833.8 | 3459.5 | 2301.6 | 1151.3 | 1077.4 | 1036.6 | 981.7  | 957.0  | 966.5  | 1008.2 | 1017.7 |
| 35°   | 4011.0 | 3515.4 | 1946.3 | 1085.9 | 1069.8 | 1014.8 | 929.5  | 884.1  | 885.0  | 923.9  | 936.2  |
| 37.5° | 4204.2 | 3586.5 | 1556.8 | 1073.6 | 1086.8 | 1015.8 | 902.1  | 839.5  | 813.9  | 813.9  | 818.7  |
| 40°   | 4451.6 | 3659.4 | 1260.2 | 1082.1 | 1122.8 | 1027.1 | 887.8  | 804.5  | 732.5  | 734.3  | 738.1  |
| 42.5° | 4773.7 | 3721.9 | 1101.0 | 1100.1 | 1166.4 | 1042.3 | 886.9  | 758.0  | 695.5  | 738.1  | 777.0  |
| 45°   | 5131.9 | 3753.2 | 1030.9 | 1116.2 | 1201.5 | 1051.8 | 871.7  | 750.5  | 700.2  | 827.2  | 901.1  |
| 47.5° | 5544.1 | 3735.2 | 992.1  | 1121.9 | 1210.0 | 1051.8 | 854.7  | 768.5  | 733.4  | 958.0  | 1044.2 |
| 50°   | 5996.1 | 3683.1 | 954.2  | 1110.5 | 1207.2 | 1049.9 | 870.8  | 786.5  | 745.7  | 980.7  | 1040.4 |
| 52.5° | 6527.6 | 3639.5 | 914.4  | 1085.9 | 1187.3 | 1039.5 | 889.7  | 778.9  | 706.9  | 891.6  | 933.3  |
| 55°   | 7134.1 | 3651.8 | 869.8  | 1050.8 | 1156.0 | 1019.6 | 883.1  | 748.6  | 666.1  | 785.5  | 811.1  |
| 57.5° | 7909.1 | 3798.7 | 816.8  | 1006.3 | 1113.4 | 986.4  | 859.4  | 734.3  | 653.8  | 712.6  | 727.7  |
| 60°   | 8774.3 | 4054.5 | 750.5  | 961.8  | 1060.3 | 933.3  | 841.4  | 741.0  | 659.5  | 706.9  | 714.4  |
| 62.5° | 9409.1 | 4203.3 | 693.6  | 896.4  | 988.3  | 874.6  | 818.7  | 749.5  | 674.7  | 726.8  | 724.9  |
| 65°   | 9581.6 | 3958.8 | 622.5  | 800.7  | 890.7  | 813.0  | 790.3  | 759.0  | 681.3  | 742.9  | 734.3  |
| 66°   | 9339.9 | 3695.4 | 591.3  | 756.1  | 841.4  | 782.7  | 776.0  | 758.0  | 678.4  | 744.8  | 730.6  |
| 67.5° | 8753.4 | 3155.3 | 537.3  | 690.8  | 762.8  | 737.2  | 753.3  | 749.5  | 670.9  | 742.9  | 723.0  |
| 70°   | 7138.8 | 2152.8 | 459.6  | 575.2  | 634.9  | 649.1  | 709.7  | 719.2  | 646.2  | 709.7  | 666.1  |
| 72.5° | 4987.9 | 1311.4 | 406.5  | 446.3  | 513.6  | 553.4  | 650.0  | 677.5  | 613.1  | 619.7  | 578.0  |
| 75°   | 2410.5 | 696.4  | 368.6  | 345.9  | 398.9  | 462.4  | 578.0  | 620.6  | 560.9  | 518.3  | 503.1  |
| 77.5° | 751.4  | 425.4  | 312.7  | 278.6  | 312.7  | 373.3  | 483.2  | 543.9  | 499.4  | 434.0  | 428.3  |
| 80°   | 403.7  | 312.7  | 240.7  | 223.6  | 247.3  | 292.8  | 380.0  | 453.9  | 429.2  | 389.4  | 347.7  |
| 82.5° | 266.3  | 202.8  | 178.1  | 173.4  | 188.6  | 223.6  | 282.4  | 376.2  | 376.2  | 333.5  | 242.6  |
| 85°   | 137.4  | 124.1  | 122.2  | 122.2  | 131.7  | 148.8  | 192.4  | 289.9  | 308.9  | 176.2  | 145.9  |
| 87.5° | 68.2   | 71.1   | 66.3   | 69.2   | 73.9   | 73.0   | 91.9   | 145.9  | 174.3  | 107.1  | 89.1   |
| 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)