

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: P192234

Luminaire Tested: **GAN-AF-06-LED-U-T3-7050-600-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192234  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
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-T3-7050-600-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23461 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full 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

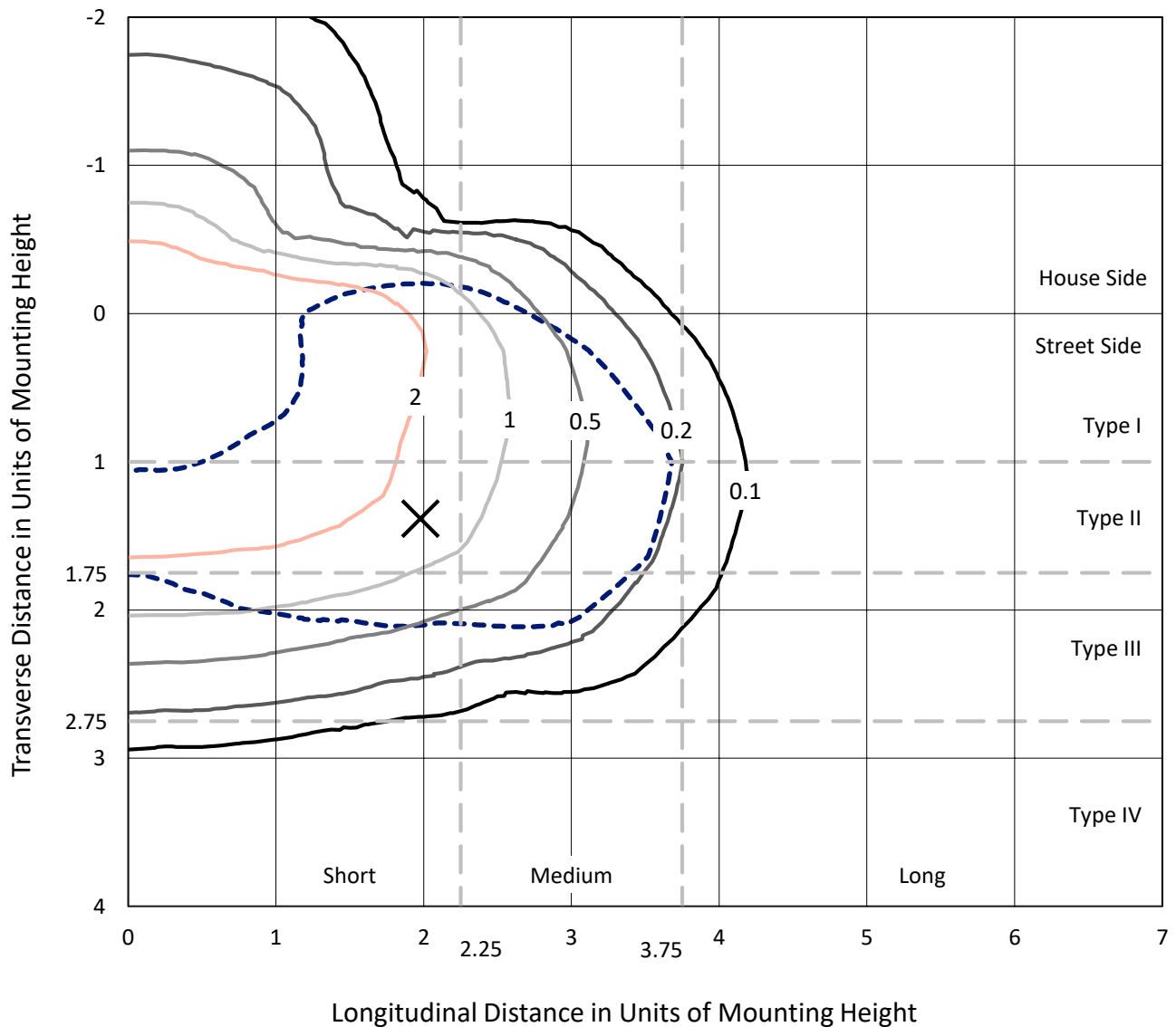


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

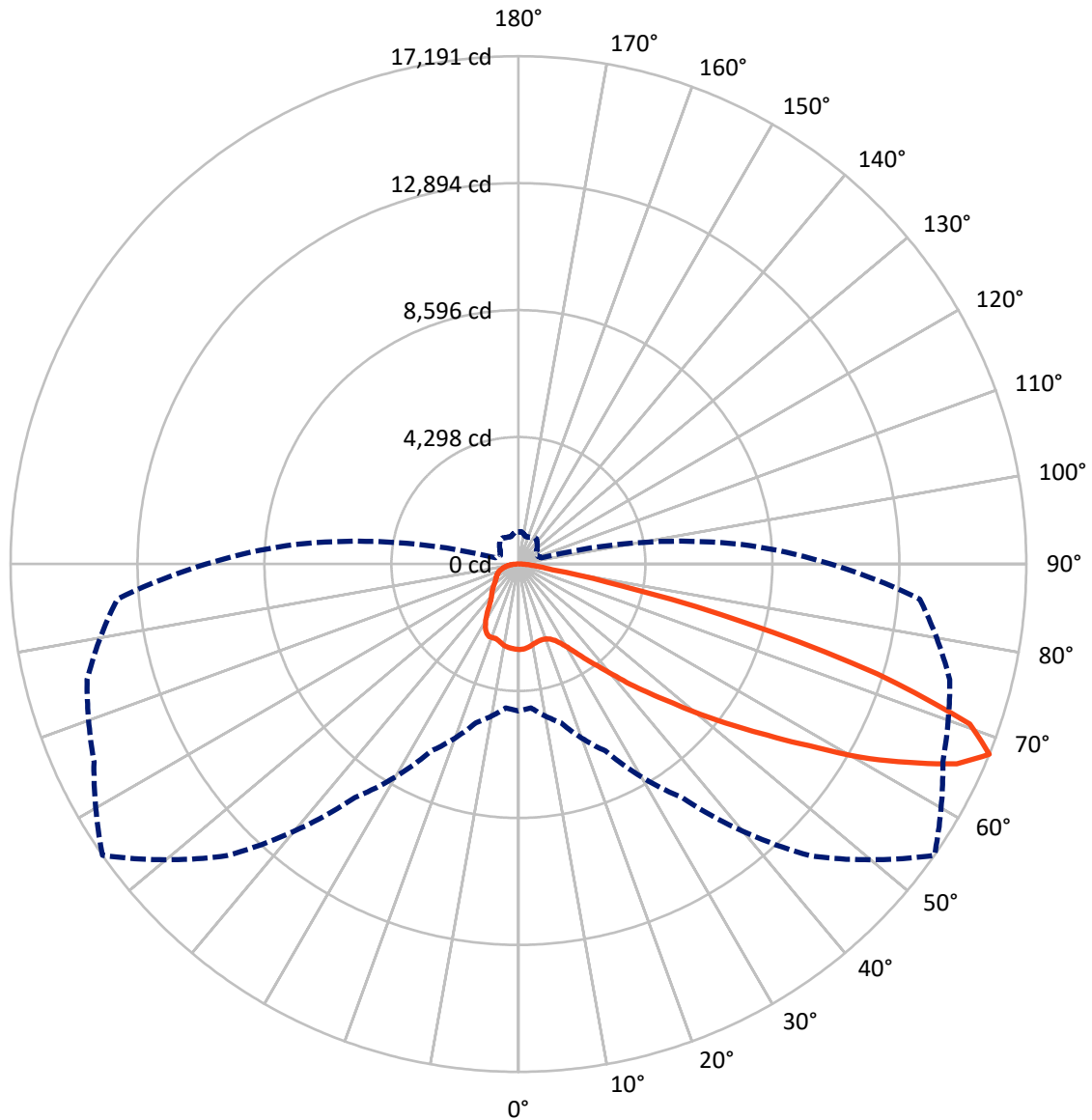


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5068.1   | 0.0    | 5068.1  |
|                    | % Fixture | 21.6     | 0.0    | 21.6    |
| <b>Street Side</b> | Lumens    | 18392.9  | 0.0    | 18392.9 |
|                    | % Fixture | 78.4     | 0.0    | 78.4    |
| <b>Total</b>       | Lumens    | 23461.0  | 0.0    | 23461.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 270.0   | 1.2       |
| 10°-20°   | 764.8   | 3.3       |
| 20°-30°   | 1281.1  | 5.5       |
| 30°-40°   | 2106.7  | 9.0       |
| 40°-50°   | 3546.1  | 15.1      |
| 50°-60°   | 5581.4  | 23.8      |
| 60°-70°   | 6660.7  | 28.4      |
| 70°-80°   | 2860.3  | 12.2      |
| 80°-90°   | 390.0   | 1.7       |
| 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°    | 23461.0 | 100.0     |
| 0°-180°   | 23461.0 | 100.0     |



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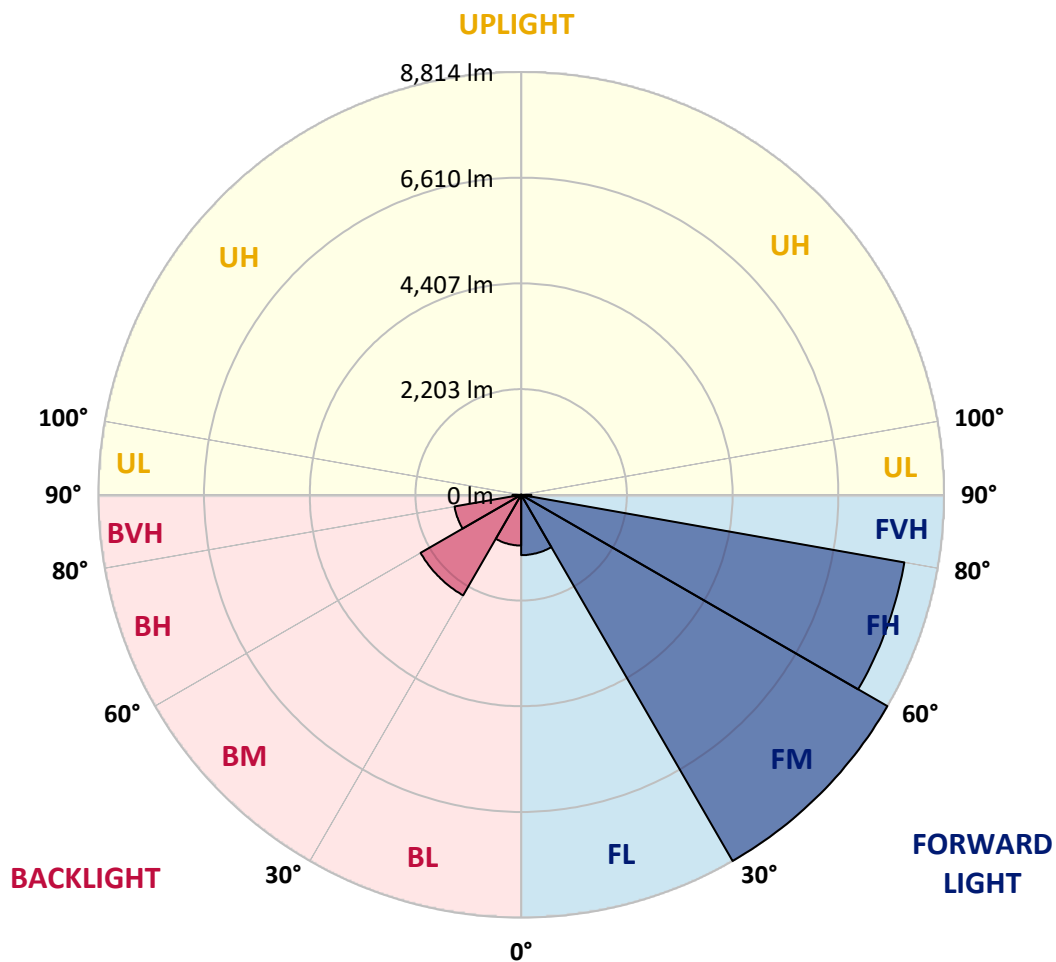
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1257.6 | 5.4       |                         |      |          |
| FM (30°-60°)   | 8813.7 | 37.6      |                         |      |          |
| FH (60°-80°)   | 8110.6 | 34.6      |                         |      | G4/12000 |
| FVH (80°-90°)  | 211.1  | 0.9       |                         |      | G2/225   |
| BL (0°-30°)    | 1058.3 | 4.5       | B3/2500                 |      |          |
| BM (30°-60°)   | 2420.5 | 10.3      | B2/2500                 |      |          |
| BH (60°-80°)   | 1410.4 | 6.0       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 178.9  | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2893.0 | 2893.0 | 2893.0 | 2893.0  | 2893.0  | 2893.0  | 2893.0  | 2893.0  | 2893.0  | 2893.0  | 2893.0  |
| 2.5°  | 2868.1 | 2869.2 | 2871.5 | 2880.5  | 2888.5  | 2886.2  | 2887.3  | 2882.8  | 2881.7  | 2874.9  | 2881.7  |
| 5°    | 2831.8 | 2835.2 | 2836.3 | 2851.1  | 2860.1  | 2862.4  | 2859.0  | 2853.3  | 2846.5  | 2839.7  | 2843.1  |
| 7.5°  | 2749.1 | 2758.1 | 2759.3 | 2779.7  | 2794.4  | 2813.7  | 2814.8  | 2815.9  | 2812.5  | 2808.0  | 2814.8  |
| 10°   | 2697.0 | 2699.2 | 2698.1 | 2712.8  | 2724.2  | 2745.7  | 2758.1  | 2779.7  | 2788.7  | 2791.0  | 2795.5  |
| 12.5° | 2693.6 | 2691.3 | 2687.9 | 2687.9  | 2684.5  | 2693.6  | 2716.2  | 2746.8  | 2768.3  | 2775.1  | 2780.8  |
| 15°   | 2729.8 | 2728.7 | 2717.4 | 2700.4  | 2678.8  | 2672.0  | 2691.3  | 2725.3  | 2753.6  | 2768.3  | 2774.0  |
| 17.5° | 2811.4 | 2804.6 | 2786.5 | 2748.0  | 2701.5  | 2683.4  | 2685.6  | 2714.0  | 2746.8  | 2766.1  | 2771.7  |
| 20°   | 2961.0 | 2961.0 | 2922.5 | 2849.9  | 2767.2  | 2724.2  | 2703.8  | 2720.8  | 2752.5  | 2778.5  | 2786.5  |
| 22.5° | 3219.4 | 3221.6 | 3157.0 | 3038.0  | 2898.7  | 2806.9  | 2755.9  | 2752.5  | 2789.9  | 2819.3  | 2828.4  |
| 25°   | 3585.4 | 3576.3 | 3485.6 | 3315.7  | 3103.8  | 2951.9  | 2863.5  | 2843.1  | 2874.9  | 2907.7  | 2919.1  |
| 27.5° | 4011.4 | 3978.6 | 3870.9 | 3665.8  | 3391.6  | 3169.5  | 3033.5  | 3000.6  | 3031.2  | 3068.6  | 3080.0  |
| 30°   | 4433.0 | 4399.0 | 4270.9 | 4046.6  | 3741.7  | 3460.7  | 3265.8  | 3212.6  | 3255.6  | 3308.9  | 3315.7  |
| 32.5° | 4854.5 | 4854.5 | 4711.7 | 4450.0  | 4118.0  | 3808.6  | 3575.2  | 3511.7  | 3583.1  | 3647.7  | 3662.4  |
| 35°   | 5358.8 | 5361.1 | 5222.8 | 4907.8  | 4550.8  | 4223.3  | 3966.1  | 3919.7  | 4027.3  | 4072.6  | 4107.8  |
| 37.5° | 5978.6 | 5991.1 | 5813.2 | 5432.4  | 5041.5  | 4697.0  | 4391.1  | 4327.6  | 4435.2  | 4558.8  | 4672.1  |
| 40°   | 6648.3 | 6664.2 | 6468.2 | 5999.0  | 5608.1  | 5247.7  | 4916.8  | 4802.4  | 4981.4  | 5217.1  | 5363.3  |
| 42.5° | 7287.5 | 7369.0 | 7179.8 | 6697.1  | 6276.7  | 5903.8  | 5568.4  | 5401.8  | 5626.2  | 5982.0  | 6109.0  |
| 45°   | 8211.0 | 8269.9 | 7940.2 | 7502.8  | 7107.3  | 6690.3  | 6246.1  | 6070.4  | 6384.3  | 6833.0  | 6859.1  |
| 47.5° | 8826.3 | 8782.1 | 8614.4 | 8342.4  | 8092.0  | 7702.2  | 7033.6  | 6841.0  | 7258.0  | 7786.1  | 7639.9  |
| 50°   | 9153.8 | 9167.4 | 9144.7 | 9160.6  | 9169.7  | 8924.9  | 7999.1  | 7735.1  | 8232.5  | 8870.5  | 8533.9  |
| 52.5° | 9459.8 | 9369.1 | 9443.9 | 9815.6  | 10264.3 | 10173.7 | 9049.5  | 8774.2  | 9277.3  | 10073.9 | 9479.0  |
| 55°   | 9453.0 | 9314.7 | 9558.3 | 10214.4 | 11187.8 | 11292.1 | 10229.2 | 9911.9  | 10382.2 | 11364.6 | 10480.7 |
| 57.5° | 9118.7 | 9125.5 | 9500.5 | 10359.5 | 11831.5 | 12343.7 | 11598.1 | 11122.1 | 11553.9 | 12672.3 | 11395.2 |
| 60°   | 8658.6 | 8720.9 | 9261.4 | 10335.7 | 12347.1 | 13206.0 | 13277.4 | 12426.4 | 12701.8 | 13861.0 | 12152.2 |
| 62.5° | 7916.4 | 7982.1 | 8727.7 | 10088.7 | 12268.9 | 14036.6 | 14795.9 | 13906.3 | 13901.8 | 14581.7 | 12374.3 |
| 65°   | 6745.8 | 6726.5 | 7509.6 | 9165.1  | 11612.8 | 14650.8 | 16304.1 | 15185.7 | 14806.1 | 14593.0 | 11927.8 |
| 67.5° | 4974.6 | 4888.5 | 5560.5 | 6980.4  | 9652.4  | 13963.0 | 17191.4 | 15852.0 | 15114.3 | 13633.2 | 10563.5 |
| 70°   | 2581.4 | 2495.3 | 3039.2 | 4076.0  | 6348.1  | 10897.8 | 16208.9 | 15507.5 | 14433.3 | 11428.1 | 8275.6  |
| 72.5° | 1103.7 | 1089.0 | 1310.0 | 1788.2  | 3070.9  | 6285.7  | 12709.7 | 13422.5 | 12384.5 | 8514.7  | 5689.7  |
| 75°   | 742.2  | 737.7  | 820.4  | 974.5   | 1381.3  | 2550.8  | 7953.8  | 9527.7  | 9060.9  | 5279.5  | 3200.1  |
| 77.5° | 582.5  | 576.8  | 625.5  | 700.3   | 895.2   | 1006.3  | 3529.8  | 5115.2  | 4734.4  | 2298.1  | 1400.6  |
| 80°   | 455.5  | 451.0  | 481.6  | 522.4   | 643.6   | 634.6   | 1161.5  | 2035.2  | 1575.1  | 880.5   | 681.0   |
| 82.5° | 359.2  | 359.2  | 384.1  | 385.3   | 456.7   | 432.9   | 606.2   | 896.3   | 786.4   | 513.3   | 417.0   |
| 85°   | 328.6  | 328.6  | 354.7  | 287.8   | 298.0   | 273.1   | 376.2   | 531.5   | 498.6   | 210.8   | 181.3   |
| 87.5° | 165.4  | 160.9  | 298.0  | 255.0   | 162.0   | 145.0   | 183.6   | 257.2   | 276.5   | 116.7   | 90.7    |
| 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°    | 2893.0 | 2893.0 | 2893.0 | 2893.0 | 2893.0 | 2893.0 | 2893.0 | 2893.0 | 2893.0 | 2893.0 |
| 2.5°  | 2879.4 | 2878.3 | 2880.5 | 2881.7 | 2890.7 | 2903.2 | 2908.9 | 2916.8 | 2921.3 | 2919.1 |
| 5°    | 2845.4 | 2847.7 | 2856.7 | 2863.5 | 2879.4 | 2899.8 | 2911.1 | 2920.2 | 2928.1 | 2924.7 |
| 7.5°  | 2817.1 | 2822.7 | 2836.3 | 2842.0 | 2851.1 | 2856.7 | 2855.6 | 2859.0 | 2865.8 | 2857.9 |
| 10°   | 2801.2 | 2808.0 | 2818.2 | 2810.3 | 2788.7 | 2758.1 | 2729.8 | 2715.1 | 2719.6 | 2714.0 |
| 12.5° | 2785.3 | 2794.4 | 2786.5 | 2749.1 | 2689.0 | 2649.4 | 2627.8 | 2630.1 | 2640.3 | 2642.6 |
| 15°   | 2776.3 | 2779.7 | 2745.7 | 2675.4 | 2614.2 | 2608.6 | 2619.9 | 2617.6 | 2618.8 | 2618.8 |
| 17.5° | 2776.3 | 2767.2 | 2703.8 | 2633.5 | 2607.4 | 2597.2 | 2562.1 | 2517.9 | 2498.7 | 2491.9 |
| 20°   | 2791.0 | 2767.2 | 2690.2 | 2643.7 | 2587.0 | 2499.8 | 2406.9 | 2325.3 | 2289.0 | 2278.8 |
| 22.5° | 2835.2 | 2794.4 | 2728.7 | 2648.2 | 2487.3 | 2341.1 | 2193.8 | 2096.4 | 2030.7 | 2019.3 |
| 25°   | 2924.7 | 2879.4 | 2804.6 | 2588.2 | 2328.7 | 2120.2 | 1952.5 | 1843.7 | 1778.0 | 1768.9 |
| 27.5° | 3081.1 | 3051.6 | 2845.4 | 2455.6 | 2117.9 | 1894.7 | 1739.4 | 1655.6 | 1606.8 | 1603.4 |
| 30°   | 3316.8 | 3302.1 | 2825.0 | 2259.6 | 1858.4 | 1676.0 | 1601.2 | 1552.5 | 1516.2 | 1515.1 |
| 32.5° | 3693.0 | 3574.0 | 2758.1 | 2020.5 | 1621.6 | 1520.7 | 1490.1 | 1460.7 | 1432.3 | 1432.3 |
| 35°   | 4176.9 | 3793.9 | 2631.2 | 1764.4 | 1477.7 | 1434.6 | 1396.1 | 1349.6 | 1312.2 | 1310.0 |
| 37.5° | 4745.7 | 3929.9 | 2403.5 | 1558.1 | 1409.7 | 1376.8 | 1320.1 | 1251.0 | 1185.3 | 1174.0 |
| 40°   | 5320.3 | 3970.6 | 2082.8 | 1431.2 | 1366.6 | 1319.0 | 1249.9 | 1168.3 | 1104.8 | 1101.4 |
| 42.5° | 5847.2 | 3892.5 | 1742.8 | 1343.9 | 1323.5 | 1260.1 | 1187.6 | 1115.0 | 1065.2 | 1064.1 |
| 45°   | 6289.1 | 3689.6 | 1457.3 | 1261.2 | 1278.2 | 1206.8 | 1142.2 | 1083.3 | 1044.8 | 1036.9 |
| 47.5° | 6705.0 | 3402.9 | 1256.7 | 1174.0 | 1232.9 | 1177.4 | 1123.0 | 1067.5 | 1030.1 | 1024.4 |
| 50°   | 7187.7 | 3093.6 | 1116.2 | 1089.0 | 1193.2 | 1167.2 | 1138.8 | 1081.0 | 1018.7 | 1011.9 |
| 52.5° | 7772.5 | 2826.1 | 1006.3 | 1014.2 | 1162.6 | 1180.8 | 1179.6 | 1119.6 | 1010.8 | 1001.7 |
| 55°   | 8425.2 | 2529.2 | 923.5  | 953.0  | 1150.2 | 1205.7 | 1189.8 | 1155.8 | 1017.6 | 1004.0 |
| 57.5° | 9067.7 | 2182.5 | 865.7  | 906.5  | 1132.0 | 1203.4 | 1141.1 | 1092.4 | 1033.5 | 1014.2 |
| 60°   | 9549.3 | 1716.8 | 821.6  | 865.7  | 1092.4 | 1166.0 | 1087.8 | 1023.3 | 1030.1 | 1015.3 |
| 62.5° | 9581.0 | 1326.9 | 768.3  | 830.6  | 1032.3 | 1128.6 | 1052.7 | 992.7  | 1044.8 | 1031.2 |
| 65°   | 9017.8 | 1002.9 | 717.3  | 788.7  | 967.7  | 1104.8 | 1018.7 | 975.7  | 1075.4 | 1060.7 |
| 67.5° | 7592.3 | 806.8  | 674.2  | 745.6  | 903.1  | 1055.0 | 988.1  | 959.8  | 1102.6 | 1076.5 |
| 70°   | 5481.2 | 687.8  | 632.3  | 693.5  | 845.3  | 998.3  | 960.9  | 931.5  | 1028.9 | 988.1  |
| 72.5° | 3374.6 | 596.1  | 584.7  | 624.4  | 801.2  | 939.4  | 920.1  | 878.2  | 926.9  | 894.1  |
| 75°   | 1685.0 | 516.7  | 531.5  | 556.4  | 738.8  | 872.5  | 852.1  | 810.2  | 817.0  | 810.2  |
| 77.5° | 806.8  | 441.9  | 469.1  | 488.4  | 658.4  | 796.6  | 775.1  | 732.0  | 724.1  | 725.2  |
| 80°   | 511.1  | 369.4  | 395.5  | 409.1  | 588.1  | 708.2  | 686.7  | 643.6  | 734.3  | 681.0  |
| 82.5° | 319.6  | 300.3  | 307.1  | 332.0  | 512.2  | 616.4  | 588.1  | 549.6  | 661.8  | 523.5  |
| 85°   | 176.8  | 209.6  | 218.7  | 240.2  | 394.3  | 515.6  | 487.3  | 438.5  | 393.2  | 386.4  |
| 87.5° | 105.4  | 124.6  | 128.0  | 143.9  | 265.2  | 372.8  | 329.8  | 312.8  | 259.5  | 258.4  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)