

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: P193202

Luminaire Tested: **GAN-AF-04-LED-U-T3-7030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193202  
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-04-LED-U-T3-7030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25480.3 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 258  
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

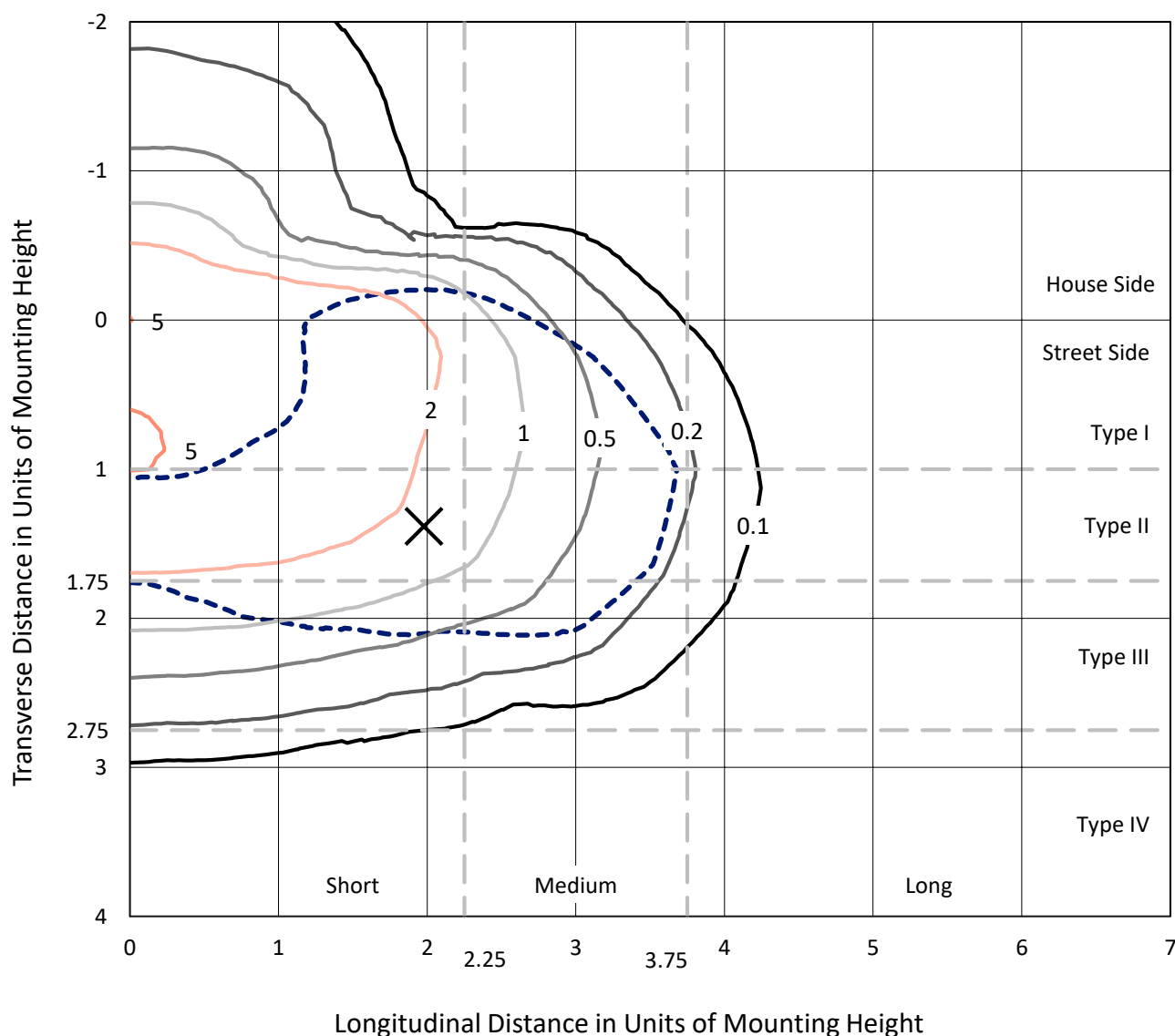


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

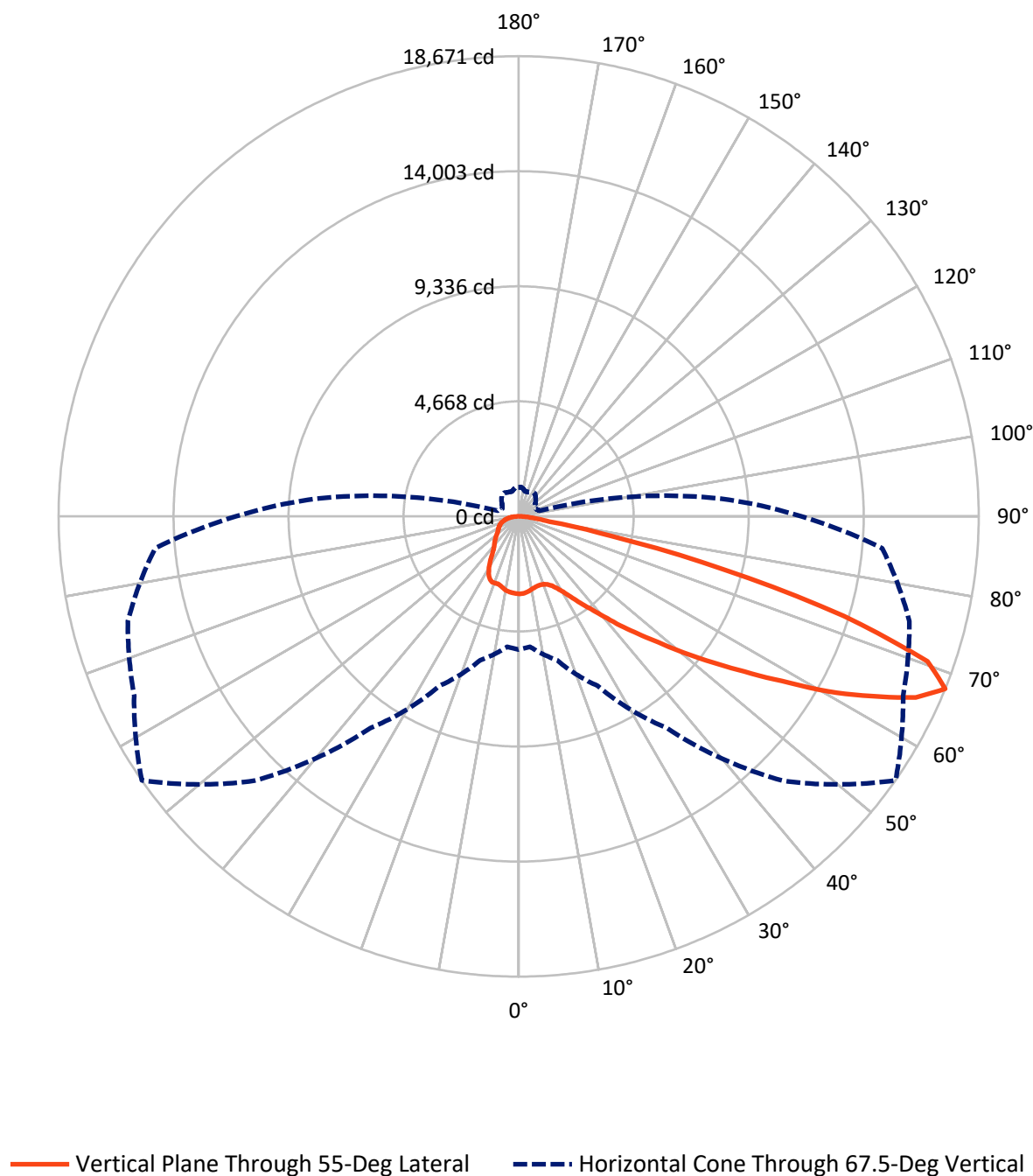


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
Type III - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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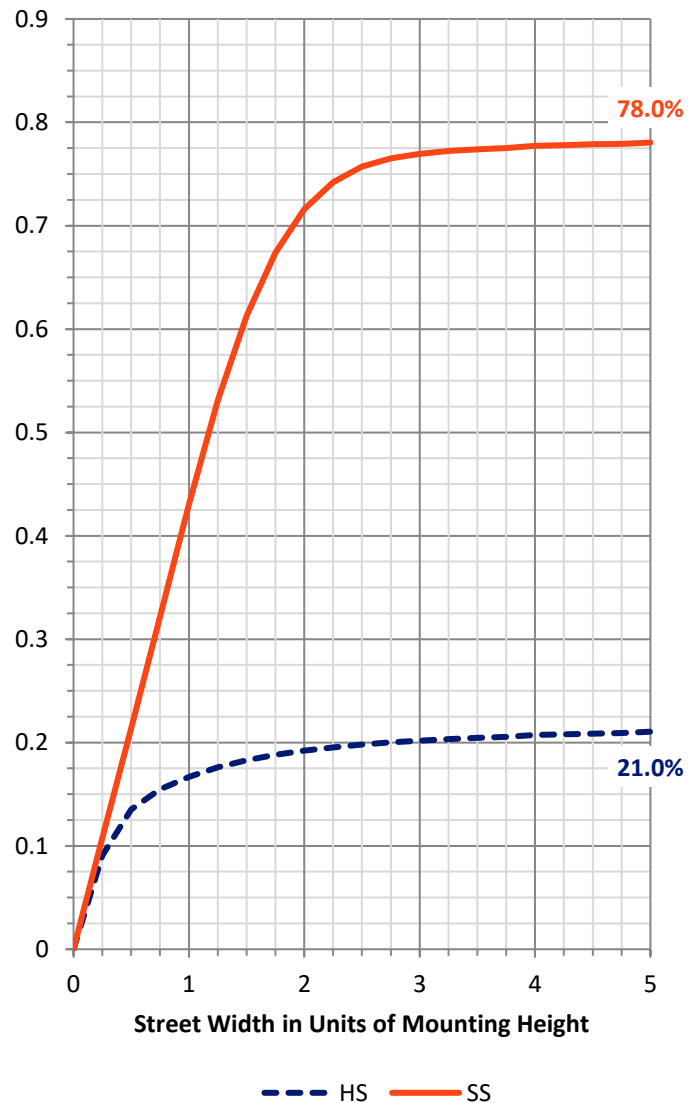
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5504.3   | 0.0    | 5504.3  |
|                    | % Fixture | 21.6     | 0.0    | 21.6    |
| <b>Street Side</b> | Lumens    | 19976.0  | 0.0    | 19976.0 |
|                    | % Fixture | 78.4     | 0.0    | 78.4    |
| <b>Total</b>       | Lumens    | 25480.3  | 0.0    | 25480.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 293.3   | 1.2       |
| 10°-20°   | 830.6   | 3.3       |
| 20°-30°   | 1391.3  | 5.5       |
| 30°-40°   | 2288.0  | 9.0       |
| 40°-50°   | 3851.4  | 15.1      |
| 50°-60°   | 6061.8  | 23.8      |
| 60°-70°   | 7234.1  | 28.4      |
| 70°-80°   | 3106.4  | 12.2      |
| 80°-90°   | 423.5   | 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°    | 25480.3 | 100.0     |
| 0°-180°   | 25480.3 | 100.0     |

**Coefficient of Utilization**



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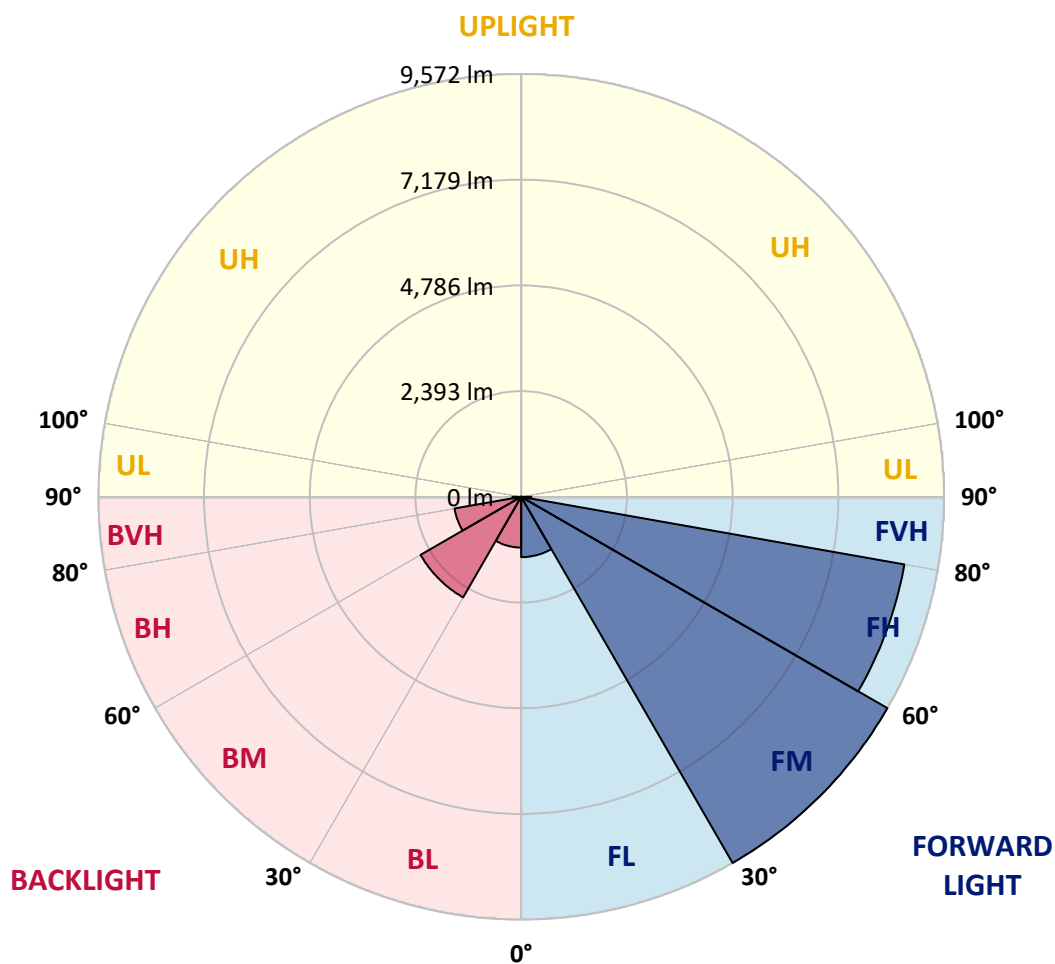
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1365.8 | 5.4       |                         |      |          |
| FM   | (30°-60°)   | 9572.3 | 37.6      |                         |      |          |
| FH   | (60°-80°)   | 8808.7 | 34.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 229.3  | 0.9       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1149.4 | 4.5       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2628.8 | 10.3      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1531.8 | 6.0       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 194.3  | 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°    | 3142.0  | 3142.0  | 3142.0  | 3142.0  | 3142.0  | 3142.0  | 3142.0  | 3142.0  | 3142.0  | 3142.0  | 3142.0  |
| 2.5°  | 3115.0  | 3116.2  | 3118.6  | 3128.4  | 3137.1  | 3134.6  | 3135.8  | 3131.0  | 3129.7  | 3122.3  | 3129.7  |
| 5°    | 3075.5  | 3079.3  | 3080.4  | 3096.5  | 3106.3  | 3108.8  | 3105.0  | 3098.9  | 3091.6  | 3084.2  | 3087.8  |
| 7.5°  | 2985.7  | 2995.6  | 2996.8  | 3019.0  | 3034.9  | 3055.9  | 3057.1  | 3058.2  | 3054.7  | 3049.8  | 3057.1  |
| 10°   | 2929.1  | 2931.5  | 2930.4  | 2946.2  | 2958.6  | 2982.0  | 2995.6  | 3019.0  | 3028.7  | 3031.3  | 3036.2  |
| 12.5° | 2925.4  | 2922.9  | 2919.3  | 2919.3  | 2915.6  | 2925.4  | 2950.0  | 2983.3  | 3006.6  | 3014.0  | 3020.2  |
| 15°   | 2964.8  | 2963.5  | 2951.2  | 2932.7  | 2909.3  | 2902.0  | 2922.9  | 2959.9  | 2990.7  | 3006.6  | 3012.9  |
| 17.5° | 3053.4  | 3046.0  | 3026.4  | 2984.5  | 2934.0  | 2914.3  | 2916.7  | 2947.6  | 2983.3  | 3004.2  | 3010.3  |
| 20°   | 3215.8  | 3215.8  | 3174.0  | 3095.2  | 3005.4  | 2958.6  | 2936.5  | 2954.9  | 2989.5  | 3017.7  | 3026.4  |
| 22.5° | 3496.4  | 3498.9  | 3428.8  | 3299.5  | 3148.2  | 3048.5  | 2993.0  | 2989.5  | 3030.0  | 3062.0  | 3071.9  |
| 25°   | 3894.0  | 3884.1  | 3785.7  | 3601.0  | 3370.8  | 3206.0  | 3109.9  | 3087.8  | 3122.3  | 3158.0  | 3170.2  |
| 27.5° | 4356.7  | 4320.9  | 4204.1  | 3981.3  | 3683.5  | 3442.3  | 3294.6  | 3258.8  | 3292.2  | 3332.7  | 3345.1  |
| 30°   | 4814.5  | 4777.6  | 4638.6  | 4394.9  | 4063.8  | 3758.6  | 3546.9  | 3489.0  | 3535.8  | 3593.6  | 3601.0  |
| 32.5° | 5272.5  | 5272.5  | 5117.2  | 4833.0  | 4472.4  | 4136.4  | 3882.8  | 3814.0  | 3891.5  | 3961.6  | 3977.7  |
| 35°   | 5820.0  | 5822.5  | 5672.3  | 5330.2  | 4942.6  | 4586.8  | 4307.4  | 4257.1  | 4373.9  | 4423.2  | 4461.3  |
| 37.5° | 6493.3  | 6506.7  | 6313.5  | 5900.0  | 5475.4  | 5101.4  | 4769.0  | 4700.2  | 4817.0  | 4951.2  | 5074.2  |
| 40°   | 7220.6  | 7237.8  | 7025.0  | 6515.3  | 6090.7  | 5699.4  | 5340.0  | 5215.7  | 5410.2  | 5666.1  | 5824.9  |
| 42.5° | 7914.7  | 8003.4  | 7797.9  | 7273.5  | 6816.9  | 6412.0  | 6047.7  | 5866.7  | 6110.5  | 6496.9  | 6634.8  |
| 45°   | 8917.7  | 8981.7  | 8623.7  | 8148.5  | 7719.0  | 7266.1  | 6783.7  | 6592.9  | 6933.8  | 7421.2  | 7449.6  |
| 47.5° | 9586.0  | 9538.0  | 9355.9  | 9060.6  | 8788.5  | 8365.1  | 7639.0  | 7429.8  | 7882.7  | 8456.2  | 8297.4  |
| 50°   | 9941.7  | 9956.5  | 9931.8  | 9949.0  | 9958.9  | 9693.1  | 8687.6  | 8400.8  | 8941.1  | 9634.1  | 9268.5  |
| 52.5° | 10273.9 | 10175.6 | 10256.7 | 10660.4 | 11147.8 | 11049.3 | 9828.4  | 9529.4  | 10075.8 | 10941.0 | 10295.0 |
| 55°   | 10266.5 | 10116.5 | 10381.0 | 11093.6 | 12150.8 | 12264.1 | 11109.6 | 10765.0 | 11275.8 | 12342.8 | 11382.8 |
| 57.5° | 9903.6  | 9910.9  | 10318.3 | 11251.2 | 12849.9 | 13406.1 | 12596.3 | 12079.3 | 12548.3 | 13763.1 | 12376.1 |
| 60°   | 9403.8  | 9471.5  | 10058.6 | 11225.3 | 13409.8 | 14342.7 | 14420.2 | 13496.0 | 13795.1 | 15054.1 | 13198.2 |
| 62.5° | 8597.7  | 8669.1  | 9478.9  | 10957.1 | 13324.9 | 15244.8 | 16069.5 | 15103.2 | 15098.3 | 15836.8 | 13439.3 |
| 65°   | 7326.4  | 7305.5  | 8155.8  | 9953.9  | 12612.4 | 15911.9 | 17707.4 | 16492.8 | 16080.4 | 15849.1 | 12954.5 |
| 67.5° | 5402.9  | 5309.2  | 6039.1  | 7581.2  | 10483.2 | 15164.8 | 18671.1 | 17216.4 | 16415.2 | 14806.7 | 11472.7 |
| 70°   | 2803.6  | 2710.0  | 3300.7  | 4426.8  | 6894.5  | 11835.7 | 17604.1 | 16842.4 | 15675.5 | 12411.8 | 8987.8  |
| 72.5° | 1198.7  | 1182.7  | 1422.7  | 1942.1  | 3335.2  | 6826.7  | 13803.7 | 14577.8 | 13450.5 | 9247.6  | 6179.3  |
| 75°   | 806.2   | 801.2   | 891.0   | 1058.4  | 1500.2  | 2770.4  | 8638.4  | 10347.8 | 9840.8  | 5733.9  | 3475.5  |
| 77.5° | 632.6   | 626.4   | 679.4   | 760.6   | 972.3   | 1092.9  | 3833.7  | 5555.4  | 5142.0  | 2495.9  | 1521.1  |
| 80°   | 494.7   | 489.8   | 523.1   | 567.4   | 699.0   | 689.2   | 1261.5  | 2210.4  | 1710.7  | 956.2   | 739.6   |
| 82.5° | 390.2   | 390.2   | 417.3   | 418.5   | 495.9   | 470.2   | 658.4   | 973.5   | 854.1   | 557.6   | 452.9   |
| 85°   | 356.9   | 356.9   | 385.2   | 312.6   | 323.6   | 296.6   | 408.6   | 577.2   | 541.5   | 228.9   | 196.8   |
| 87.5° | 179.7   | 174.9   | 323.6   | 276.9   | 176.0   | 157.6   | 199.4   | 279.3   | 300.3   | 126.7   | 98.5    |
| 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°    | 3142.0  | 3142.0 | 3142.0 | 3142.0 | 3142.0 | 3142.0 | 3142.0 | 3142.0 | 3142.0 | 3142.0 |
| 2.5°  | 3127.2  | 3126.0 | 3128.4 | 3129.7 | 3139.6 | 3153.1 | 3159.2 | 3167.9 | 3172.8 | 3170.2 |
| 5°    | 3090.3  | 3092.8 | 3102.6 | 3109.9 | 3127.2 | 3149.4 | 3161.8 | 3171.6 | 3180.2 | 3176.5 |
| 7.5°  | 3059.6  | 3065.7 | 3080.4 | 3086.6 | 3096.5 | 3102.6 | 3101.5 | 3105.0 | 3112.5 | 3103.8 |
| 10°   | 3042.4  | 3049.8 | 3060.8 | 3052.1 | 3028.7 | 2995.6 | 2964.8 | 2948.8 | 2953.8 | 2947.6 |
| 12.5° | 3025.1  | 3034.9 | 3026.4 | 2985.7 | 2920.5 | 2877.5 | 2854.1 | 2856.5 | 2867.5 | 2870.0 |
| 15°   | 3015.2  | 3019.0 | 2982.0 | 2905.8 | 2839.2 | 2833.1 | 2845.4 | 2842.9 | 2844.1 | 2844.1 |
| 17.5° | 3015.2  | 3005.4 | 2936.5 | 2860.2 | 2831.9 | 2820.7 | 2782.7 | 2734.6 | 2713.7 | 2706.4 |
| 20°   | 3031.3  | 3005.4 | 2921.7 | 2871.3 | 2809.7 | 2715.0 | 2614.0 | 2525.4 | 2486.0 | 2474.9 |
| 22.5° | 3079.3  | 3034.9 | 2963.5 | 2876.1 | 2701.4 | 2542.7 | 2382.6 | 2276.9 | 2205.4 | 2193.2 |
| 25°   | 3176.5  | 3127.2 | 3046.0 | 2810.9 | 2529.2 | 2302.6 | 2120.5 | 2002.4 | 1930.9 | 1921.1 |
| 27.5° | 3346.3  | 3314.3 | 3090.3 | 2666.9 | 2300.2 | 2057.8 | 1889.1 | 1798.1 | 1745.2 | 1741.5 |
| 30°   | 3602.3  | 3586.3 | 3068.1 | 2454.1 | 2018.3 | 1820.3 | 1739.0 | 1686.1 | 1646.6 | 1645.5 |
| 32.5° | 4010.9  | 3881.7 | 2995.6 | 2194.4 | 1761.2 | 1651.6 | 1618.3 | 1586.3 | 1555.7 | 1555.7 |
| 35°   | 4536.5  | 4120.3 | 2857.6 | 1916.2 | 1604.8 | 1558.0 | 1516.2 | 1465.8 | 1425.2 | 1422.7 |
| 37.5° | 5154.2  | 4268.1 | 2610.3 | 1692.2 | 1531.0 | 1495.3 | 1433.8 | 1358.7 | 1287.3 | 1275.0 |
| 40°   | 5778.1  | 4312.5 | 2262.0 | 1554.4 | 1484.3 | 1432.5 | 1357.4 | 1268.8 | 1200.0 | 1196.3 |
| 42.5° | 6350.4  | 4227.5 | 1892.8 | 1459.6 | 1437.6 | 1368.6 | 1289.8 | 1211.0 | 1156.8 | 1155.6 |
| 45°   | 6830.5  | 4007.2 | 1582.7 | 1369.8 | 1388.2 | 1310.7 | 1240.5 | 1176.6 | 1134.7 | 1126.1 |
| 47.5° | 7282.1  | 3695.8 | 1364.8 | 1275.0 | 1339.0 | 1278.7 | 1219.7 | 1159.4 | 1118.7 | 1112.6 |
| 50°   | 7806.3  | 3359.8 | 1212.2 | 1182.7 | 1296.0 | 1267.6 | 1236.9 | 1174.1 | 1106.4 | 1099.0 |
| 52.5° | 8441.5  | 3069.4 | 1092.9 | 1101.5 | 1262.7 | 1282.3 | 1281.2 | 1215.9 | 1097.8 | 1087.9 |
| 55°   | 9150.4  | 2747.0 | 1003.0 | 1035.0 | 1249.2 | 1309.5 | 1292.2 | 1255.3 | 1105.1 | 1090.4 |
| 57.5° | 9848.2  | 2370.4 | 940.2  | 984.5  | 1229.5 | 1307.1 | 1239.3 | 1186.4 | 1122.4 | 1101.5 |
| 60°   | 10371.2 | 1864.5 | 892.2  | 940.2  | 1186.4 | 1266.5 | 1181.5 | 1111.3 | 1118.7 | 1102.8 |
| 62.5° | 10405.7 | 1441.1 | 834.4  | 902.2  | 1121.2 | 1225.8 | 1143.3 | 1078.1 | 1134.7 | 1119.9 |
| 65°   | 9794.0  | 1089.2 | 779.0  | 856.6  | 1051.1 | 1200.0 | 1106.4 | 1059.6 | 1168.0 | 1151.9 |
| 67.5° | 8245.8  | 876.3  | 732.2  | 809.8  | 980.9  | 1145.8 | 1073.2 | 1042.5 | 1197.5 | 1169.2 |
| 70°   | 5953.0  | 747.0  | 686.7  | 753.3  | 918.1  | 1084.3 | 1043.7 | 1011.6 | 1117.5 | 1073.2 |
| 72.5° | 3665.1  | 647.4  | 635.1  | 678.2  | 870.1  | 1020.3 | 999.2  | 953.9  | 1006.8 | 971.0  |
| 75°   | 1830.1  | 561.1  | 577.2  | 604.3  | 802.4  | 947.6  | 925.5  | 880.0  | 887.3  | 880.0  |
| 77.5° | 876.3   | 479.9  | 509.4  | 530.5  | 715.0  | 865.3  | 841.9  | 795.1  | 786.4  | 787.6  |
| 80°   | 555.0   | 401.2  | 429.5  | 444.2  | 638.7  | 769.1  | 745.8  | 699.0  | 797.5  | 739.6  |
| 82.5° | 347.0   | 326.1  | 333.6  | 360.5  | 556.2  | 669.5  | 638.7  | 596.9  | 718.7  | 568.5  |
| 85°   | 192.0   | 227.7  | 237.5  | 260.9  | 428.3  | 560.0  | 529.3  | 476.3  | 427.1  | 419.7  |
| 87.5° | 114.5   | 135.4  | 139.1  | 156.3  | 288.0  | 405.0  | 358.2  | 339.7  | 281.8  | 280.6  |
| 90°   | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)