

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: P453897

Luminaire Tested: **GLAN-SA5A-722-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453897  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5A-722-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17228 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 154  
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: 24 FT

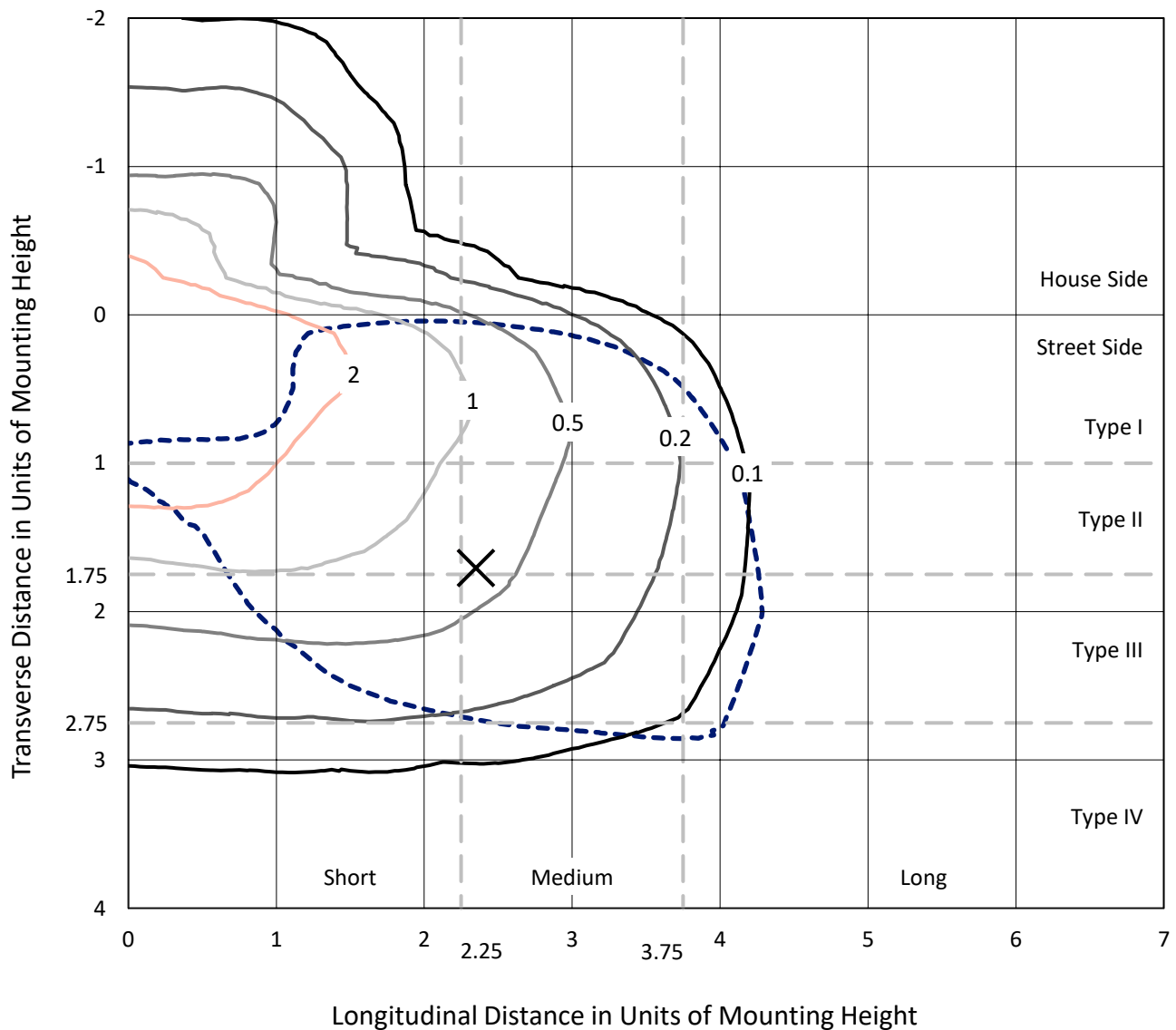


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

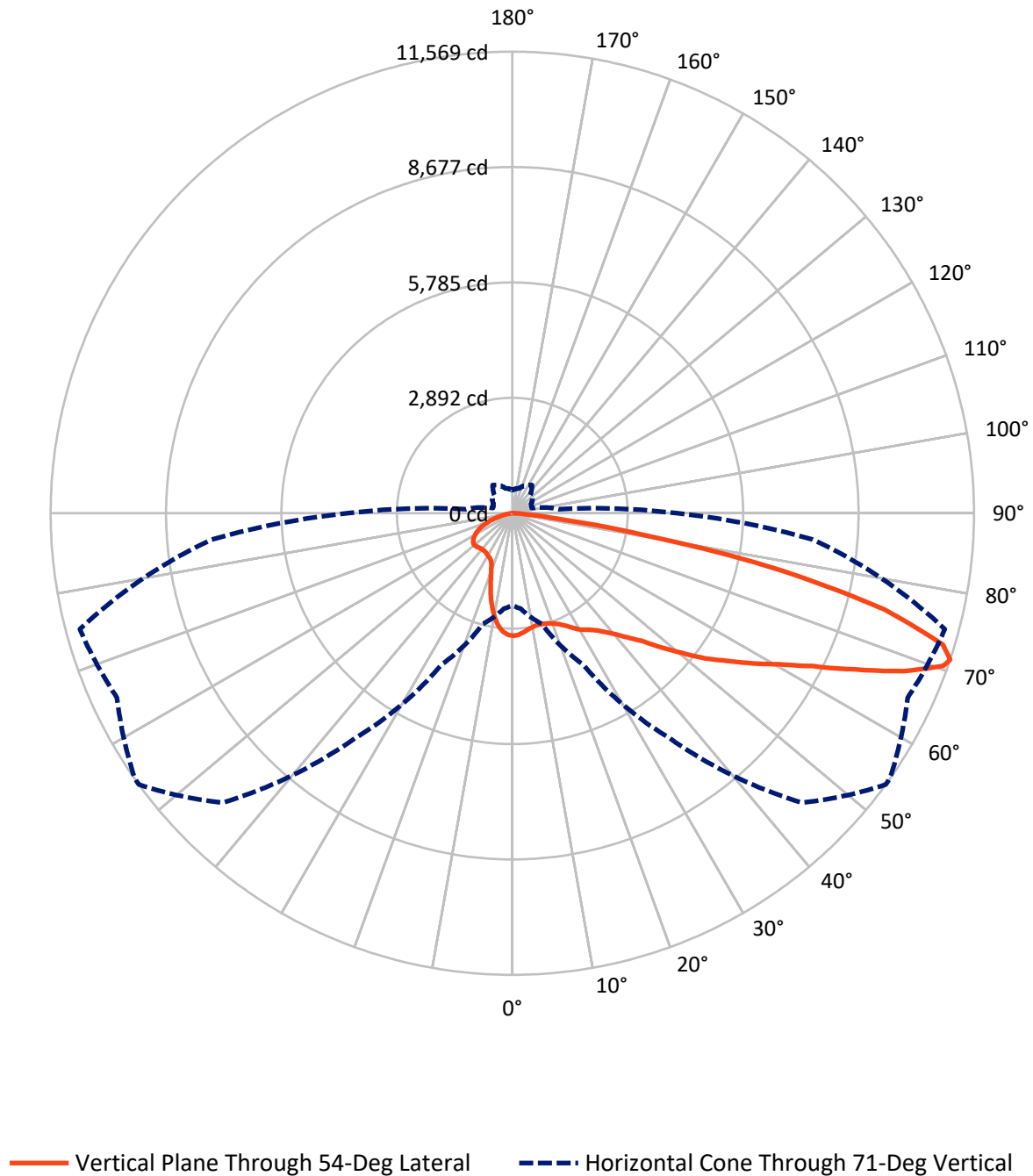


Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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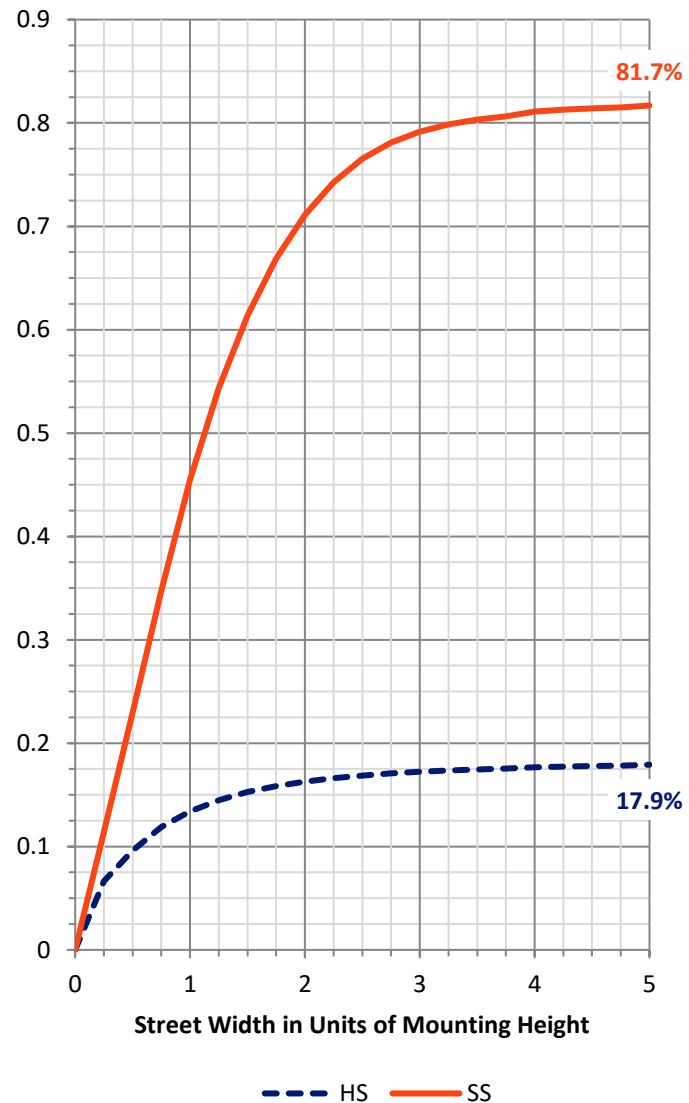
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3110.4   | 0.0    | 3110.4  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 14117.6  | 0.0    | 14117.6 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 17228.0  | 0.0    | 17228.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 273.9   | 1.6       |
| 10°-20°   | 723.3   | 4.2       |
| 20°-30°   | 1204.3  | 7.0       |
| 30°-40°   | 1780.7  | 10.3      |
| 40°-50°   | 2508.2  | 14.6      |
| 50°-60°   | 3358.6  | 19.5      |
| 60°-70°   | 4233.3  | 24.6      |
| 70°-80°   | 2891.3  | 16.8      |
| 80°-90°   | 254.3   | 1.5       |
| 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°    | 17228.0 | 100.0     |
| 0°-180°   | 17228.0 | 100.0     |

**Coefficient of Utilization**



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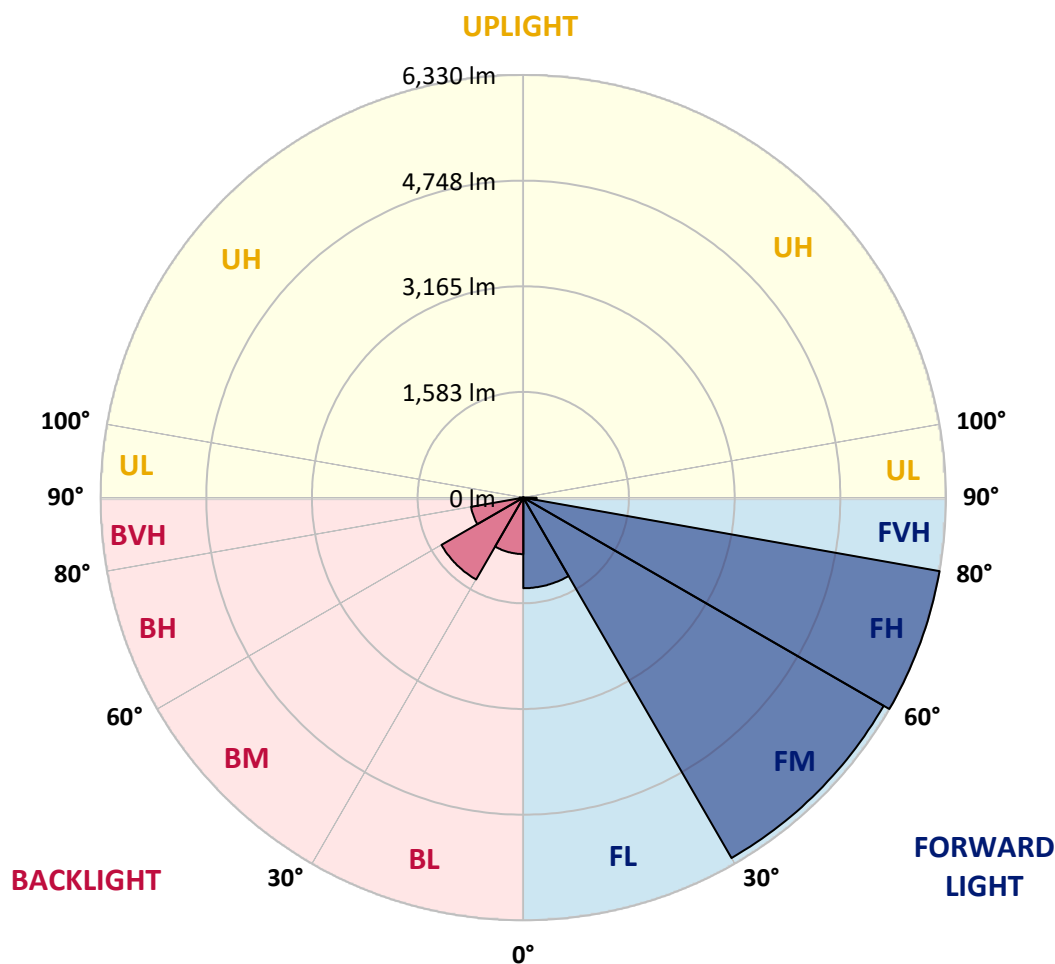
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1356.1 | 7.9       |                         |      |         |
| FM   | (30°-60°)   | 6232.5 | 36.2      |                         |      |         |
| FH   | (60°-80°)   | 6330.2 | 36.7      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 198.8  | 1.2       |                         |      | G2/225  |
| BL   | (0°-30°)    | 845.3  | 4.9       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1415.1 | 8.2       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 794.4  | 4.6       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 55.5   | 0.3       |                         |      | 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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 54°     | 55°     | 65°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0°    | 3073.7 | 3073.7 | 3073.7 | 3073.7 | 3073.7 | 3073.7  | 3073.7  | 3073.7  | 3073.7  | 3073.7  | 3073.7 |
| 2.5°  | 2969.5 | 2983.5 | 2987.2 | 2996.5 | 3016.0 | 3031.9  | 3047.7  | 3045.8  | 3068.1  | 3077.5  | 3085.8 |
| 5°    | 2837.4 | 2841.1 | 2855.0 | 2873.7 | 2908.1 | 2951.8  | 2994.6  | 2995.6  | 3050.5  | 3094.2  | 3115.6 |
| 7.5°  | 2740.6 | 2752.7 | 2762.0 | 2781.5 | 2817.8 | 2865.3  | 2933.2  | 2938.8  | 3036.5  | 3123.1  | 3168.7 |
| 10°   | 2677.3 | 2691.3 | 2701.5 | 2725.7 | 2762.0 | 2815.0  | 2888.5  | 2898.8  | 3026.3  | 3168.7  | 3248.7 |
| 12.5° | 2619.6 | 2633.6 | 2642.9 | 2674.5 | 2722.0 | 2787.1  | 2869.9  | 2882.0  | 3030.0  | 3221.7  | 3336.2 |
| 15°   | 2655.0 | 2666.1 | 2662.4 | 2671.7 | 2703.4 | 2777.8  | 2877.4  | 2889.5  | 3044.0  | 3272.9  | 3422.7 |
| 17.5° | 2812.2 | 2821.5 | 2790.8 | 2755.5 | 2740.6 | 2795.5  | 2900.6  | 2913.7  | 3071.9  | 3325.9  | 3511.1 |
| 20°   | 3044.0 | 3069.1 | 3002.1 | 2923.0 | 2851.3 | 2858.8  | 2949.0  | 2963.0  | 3111.0  | 3379.0  | 3601.4 |
| 22.5° | 3345.5 | 3364.1 | 3282.2 | 3151.9 | 3019.8 | 2951.8  | 3021.6  | 3030.0  | 3169.6  | 3447.8  | 3700.0 |
| 25°   | 3700.0 | 3711.2 | 3597.7 | 3430.1 | 3239.4 | 3111.0  | 3121.2  | 3136.1  | 3266.4  | 3526.0  | 3787.5 |
| 27.5° | 4044.3 | 4079.7 | 3948.5 | 3743.8 | 3492.5 | 3278.5  | 3258.0  | 3267.3  | 3371.5  | 3569.7  | 3848.0 |
| 30°   | 4452.9 | 4450.1 | 4311.4 | 4074.1 | 3752.1 | 3460.9  | 3387.3  | 3385.5  | 3428.3  | 3591.1  | 3891.7 |
| 32.5° | 4778.6 | 4816.7 | 4680.9 | 4422.2 | 4049.0 | 3649.8  | 3476.7  | 3473.0  | 3472.0  | 3628.4  | 3956.9 |
| 35°   | 5148.9 | 5154.5 | 5029.8 | 4769.3 | 4370.0 | 3887.1  | 3601.4  | 3582.8  | 3561.4  | 3708.4  | 4045.3 |
| 37.5° | 5480.2 | 5506.3 | 5391.8 | 5099.6 | 4685.5 | 4133.7  | 3772.6  | 3760.5  | 3695.4  | 3847.0  | 4186.7 |
| 40°   | 5738.9 | 5758.5 | 5689.6 | 5411.4 | 4996.3 | 4399.8  | 3990.4  | 3968.0  | 3888.9  | 4074.1  | 4375.6 |
| 42.5° | 5823.6 | 5863.6 | 5890.6 | 5753.8 | 5353.7 | 4715.3  | 4258.4  | 4230.5  | 4170.0  | 4418.4  | 4593.4 |
| 45°   | 5830.1 | 5893.4 | 6035.8 | 6042.3 | 5712.9 | 5093.1  | 4571.0  | 4551.5  | 4546.9  | 4859.5  | 4899.5 |
| 47.5° | 5780.8 | 5845.0 | 6084.2 | 6213.5 | 6033.0 | 5474.6  | 5022.4  | 4991.7  | 4994.5  | 5404.9  | 5242.9 |
| 50°   | 5661.7 | 5738.0 | 6028.3 | 6323.3 | 6283.3 | 5871.1  | 5498.8  | 5488.6  | 5546.3  | 6027.4  | 5599.3 |
| 52.5° | 5437.4 | 5529.6 | 5970.6 | 6392.2 | 6469.4 | 6212.6  | 6040.4  | 6011.6  | 6157.7  | 6703.0  | 5989.3 |
| 55°   | 4816.7 | 4955.4 | 5759.4 | 6430.4 | 6646.3 | 6539.2  | 6528.1  | 6580.2  | 6773.7  | 7440.0  | 6418.3 |
| 57.5° | 4492.9 | 4597.1 | 5300.6 | 6436.9 | 6869.6 | 6918.9  | 7097.6  | 7110.6  | 7449.4  | 8222.7  | 6903.1 |
| 60°   | 4316.1 | 4408.2 | 5049.4 | 6394.1 | 7181.3 | 7388.9  | 7680.1  | 7726.7  | 8109.1  | 9070.4  | 7405.6 |
| 62.5° | 4161.6 | 4240.7 | 4898.6 | 6246.1 | 7533.1 | 8085.9  | 8434.8  | 8457.2  | 8858.3  | 10006.6 | 7901.6 |
| 65°   | 3797.7 | 3888.0 | 4595.2 | 6098.1 | 7836.5 | 8956.9  | 9436.2  | 9410.1  | 9655.8  | 10814.4 | 8212.4 |
| 67.5° | 3307.3 | 3421.8 | 4028.5 | 5587.2 | 7986.3 | 9908.9  | 10564.0 | 10531.5 | 10443.1 | 11343.9 | 8301.8 |
| 70°   | 2681.0 | 2742.4 | 3303.6 | 4704.1 | 7387.9 | 10408.6 | 11454.6 | 11420.2 | 10930.7 | 11413.7 | 7879.3 |
| 71°   | 2306.9 | 2402.8 | 2876.4 | 4178.3 | 6890.1 | 10256.0 | 11569.1 | 11559.8 | 10931.6 | 11221.0 | 7561.0 |
| 72.5° | 1800.7 | 1859.3 | 2278.1 | 3237.5 | 5856.2 | 9388.7  | 11286.2 | 11321.5 | 10694.3 | 10685.9 | 6905.0 |
| 75°   | 1139.0 | 1165.1 | 1429.4 | 1905.8 | 3213.3 | 6649.0  | 9634.4  | 9730.2  | 9495.7  | 8746.6  | 5135.0 |
| 77.5° | 661.6  | 695.1  | 856.1  | 1123.2 | 1388.4 | 3608.8  | 6893.8  | 6998.0  | 6597.9  | 4815.8  | 2102.2 |
| 80°   | 385.3  | 422.5  | 563.9  | 652.3  | 637.5  | 1339.1  | 3510.2  | 3687.9  | 2856.9  | 1216.3  | 590.0  |
| 82.5° | 214.0  | 239.2  | 396.4  | 397.4  | 339.7  | 437.4   | 1104.6  | 1155.8  | 815.2   | 490.4   | 241.0  |
| 85°   | 155.4  | 175.9  | 255.9  | 231.7  | 162.9  | 188.0   | 384.3   | 402.9   | 329.4   | 206.6   | 78.2   |
| 87.5° | 54.9   | 78.2   | 140.5  | 111.7  | 44.7   | 39.1    | 110.7   | 90.3    | 83.8    | 57.7    | 17.7   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3073.7 | 3073.7 | 3073.7 | 3073.7 | 3073.7 | 3073.7 | 3073.7 | 3073.7 | 3073.7 | 3073.7 | 3073.7 |
| 2.5°  | 3090.5 | 3092.3 | 3083.0 | 3066.3 | 3049.5 | 3028.1 | 3003.9 | 2985.3 | 2976.9 | 2976.0 | 2975.1 |
| 5°    | 3124.0 | 3128.6 | 3093.3 | 3041.2 | 2983.5 | 2912.7 | 2852.3 | 2783.4 | 2765.7 | 2737.8 | 2746.2 |
| 7.5°  | 3178.0 | 3175.2 | 3105.4 | 2994.6 | 2859.7 | 2709.9 | 2583.3 | 2509.8 | 2433.5 | 2412.1 | 2413.0 |
| 10°   | 3255.2 | 3237.5 | 3105.4 | 2899.7 | 2674.5 | 2452.1 | 2275.3 | 2163.6 | 2103.1 | 2052.9 | 2034.3 |
| 12.5° | 3337.1 | 3292.4 | 3075.6 | 2766.6 | 2436.3 | 2163.6 | 1973.8 | 1823.0 | 1783.9 | 1743.0 | 1743.9 |
| 15°   | 3415.3 | 3340.8 | 3017.0 | 2579.6 | 2179.4 | 1855.6 | 1671.3 | 1581.1 | 1569.0 | 1573.6 | 1572.7 |
| 17.5° | 3486.0 | 3375.2 | 2927.6 | 2371.1 | 1879.8 | 1591.3 | 1493.6 | 1500.1 | 1532.7 | 1555.9 | 1558.7 |
| 20°   | 3557.6 | 3395.7 | 2794.6 | 2092.0 | 1596.9 | 1431.2 | 1435.0 | 1486.1 | 1535.5 | 1567.1 | 1571.8 |
| 22.5° | 3625.6 | 3405.0 | 2638.2 | 1822.1 | 1392.2 | 1363.3 | 1418.2 | 1473.1 | 1521.5 | 1552.2 | 1556.9 |
| 25°   | 3670.2 | 3383.6 | 2416.7 | 1540.1 | 1291.7 | 1339.1 | 1396.8 | 1443.3 | 1484.3 | 1515.9 | 1523.4 |
| 27.5° | 3682.3 | 3314.8 | 2142.2 | 1312.1 | 1245.1 | 1315.9 | 1368.9 | 1403.3 | 1435.0 | 1464.7 | 1470.3 |
| 30°   | 3675.8 | 3213.3 | 1840.7 | 1178.1 | 1218.1 | 1288.9 | 1329.8 | 1354.9 | 1393.1 | 1416.4 | 1421.0 |
| 32.5° | 3665.6 | 3095.1 | 1526.2 | 1106.5 | 1195.8 | 1263.7 | 1287.9 | 1310.3 | 1309.3 | 1300.0 | 1306.5 |
| 35°   | 3669.3 | 2953.7 | 1271.2 | 1063.7 | 1176.3 | 1245.1 | 1265.6 | 1237.7 | 1157.7 | 1153.9 | 1150.2 |
| 37.5° | 3688.8 | 2814.1 | 1086.0 | 1033.9 | 1166.0 | 1242.3 | 1253.5 | 1125.1 | 1054.4 | 1021.8 | 1013.4 |
| 40°   | 3739.1 | 2651.2 | 964.1  | 1011.5 | 1165.1 | 1263.7 | 1198.6 | 1068.3 | 932.4  | 869.2  | 864.5  |
| 42.5° | 3806.1 | 2491.2 | 889.6  | 997.6  | 1176.3 | 1296.3 | 1176.3 | 988.3  | 840.3  | 803.1  | 797.5  |
| 45°   | 3905.7 | 2307.9 | 848.7  | 991.1  | 1193.0 | 1308.4 | 1168.8 | 929.7  | 803.1  | 773.3  | 773.3  |
| 47.5° | 4018.3 | 2132.9 | 826.4  | 986.4  | 1214.4 | 1300.0 | 1102.7 | 911.0  | 785.4  | 789.1  | 806.8  |
| 50°   | 4129.9 | 1981.2 | 809.6  | 976.2  | 1233.0 | 1295.4 | 1075.8 | 910.1  | 790.1  | 837.5  | 869.2  |
| 52.5° | 4259.3 | 1874.2 | 789.1  | 959.4  | 1233.0 | 1265.6 | 1067.4 | 928.7  | 803.1  | 817.1  | 831.0  |
| 55°   | 4415.6 | 1840.7 | 763.1  | 923.1  | 1210.7 | 1191.2 | 1062.7 | 955.7  | 812.4  | 779.8  | 785.4  |
| 57.5° | 4622.2 | 1894.7 | 738.0  | 877.5  | 1159.5 | 1113.9 | 1060.9 | 963.2  | 791.0  | 764.0  | 758.4  |
| 60°   | 4862.3 | 2001.7 | 730.5  | 831.0  | 1089.7 | 1047.8 | 1049.7 | 941.8  | 761.2  | 733.3  | 738.0  |
| 62.5° | 5030.8 | 2065.9 | 725.9  | 795.7  | 1013.4 | 975.3  | 1022.7 | 915.7  | 748.2  | 724.0  | 728.6  |
| 65°   | 5030.8 | 1987.7 | 683.1  | 741.7  | 914.8  | 887.8  | 990.1  | 883.1  | 731.4  | 703.5  | 698.9  |
| 67.5° | 4840.0 | 1759.7 | 617.9  | 660.7  | 805.9  | 788.2  | 944.5  | 844.0  | 706.3  | 684.9  | 673.7  |
| 70°   | 4343.1 | 1334.5 | 536.0  | 565.8  | 668.2  | 684.0  | 885.9  | 791.0  | 664.4  | 638.4  | 621.6  |
| 71°   | 4124.4 | 1162.3 | 501.6  | 517.4  | 615.1  | 638.4  | 858.0  | 768.7  | 645.8  | 608.6  | 578.8  |
| 72.5° | 3702.8 | 979.0  | 449.5  | 456.0  | 525.8  | 567.7  | 799.4  | 725.9  | 610.5  | 557.4  | 523.9  |
| 75°   | 2813.2 | 714.7  | 362.0  | 358.3  | 389.0  | 450.4  | 676.5  | 646.8  | 535.1  | 463.4  | 443.9  |
| 77.5° | 1215.3 | 389.0  | 270.8  | 273.6  | 264.3  | 341.5  | 532.3  | 555.6  | 458.8  | 376.9  | 359.2  |
| 80°   | 368.5  | 224.3  | 185.2  | 188.9  | 176.8  | 228.9  | 375.0  | 435.5  | 368.5  | 293.1  | 268.9  |
| 82.5° | 188.9  | 134.0  | 126.6  | 124.7  | 112.6  | 129.4  | 227.1  | 297.8  | 263.4  | 183.3  | 161.9  |
| 85°   | 81.9   | 71.7   | 62.3   | 60.5   | 53.0   | 46.5   | 81.0   | 148.9  | 139.6  | 102.4  | 97.7   |
| 87.5° | 20.5   | 18.6   | 12.1   | 11.2   | 6.5    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)