

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386321

Luminaire Tested: GAW-SA2A-722-U-T4W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386321  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2A-722-U-T4W  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7100 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

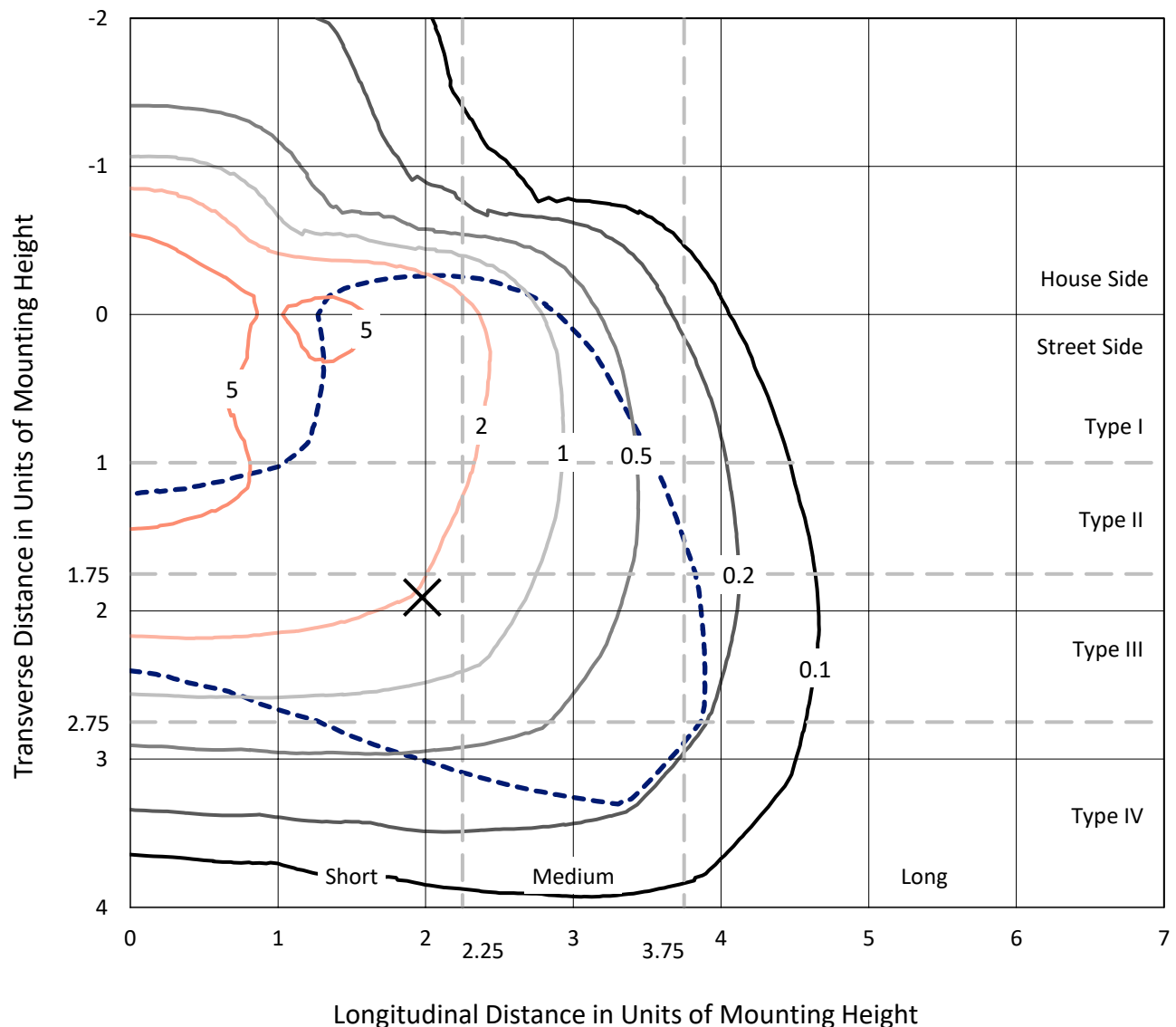
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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## Iso-Footcandle Lines of Horizontal Illumination

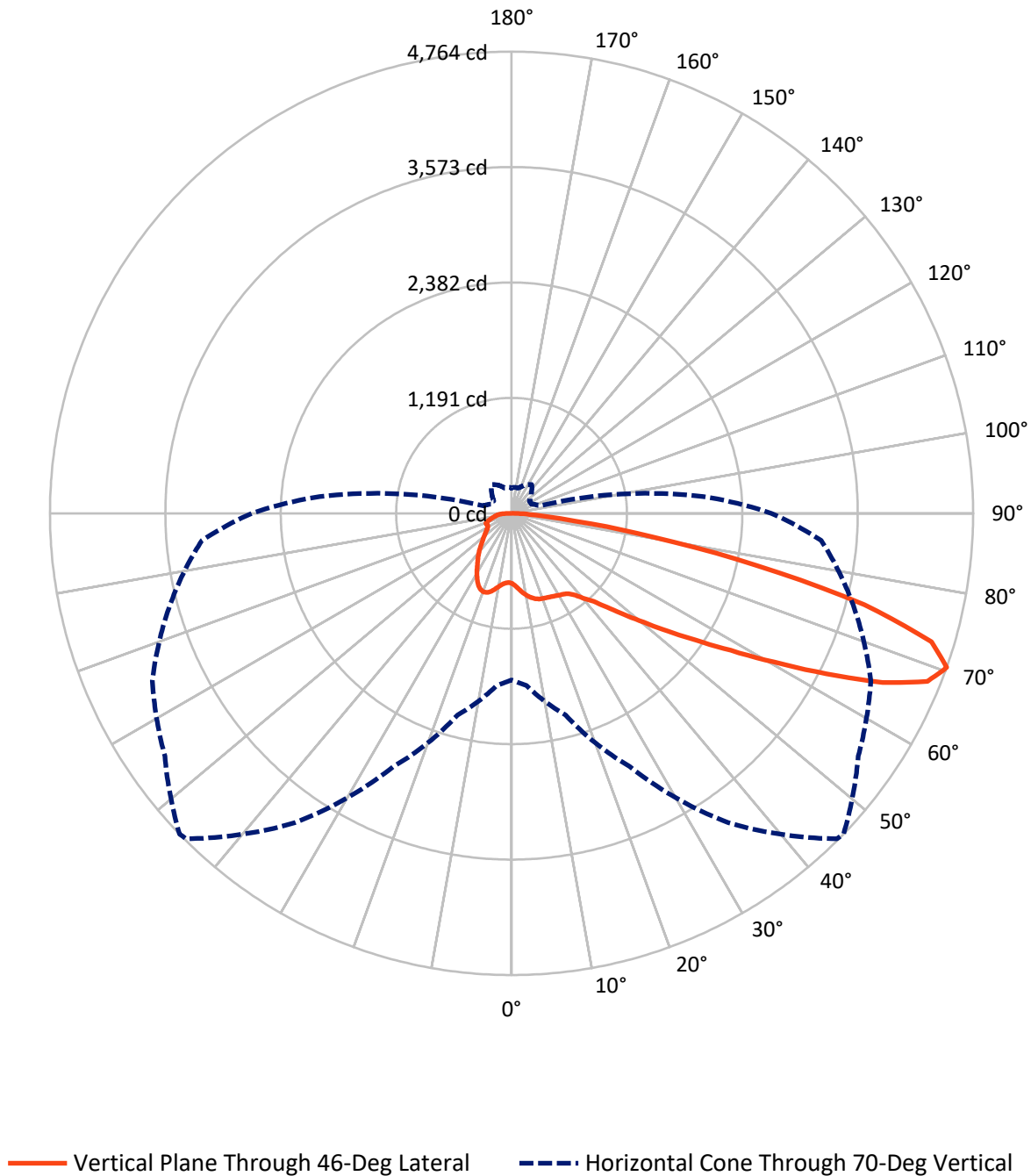
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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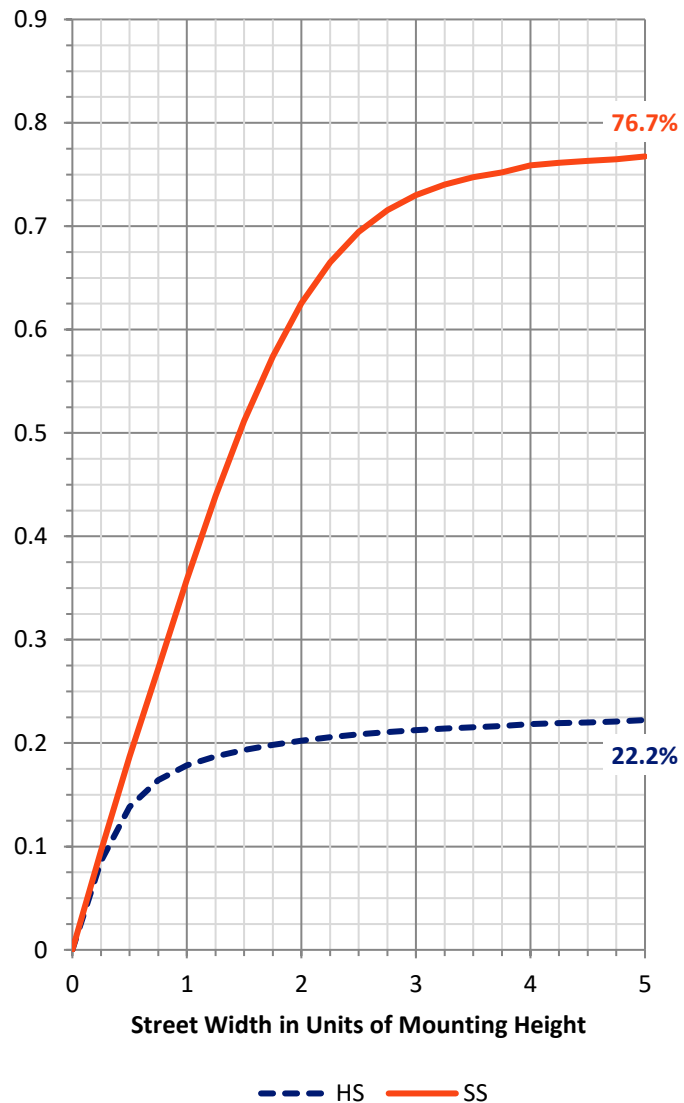
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1627.3   | 0.0    | 1627.3 |
|                    | % Fixture | 22.9     | 0.0    | 22.9   |
| <b>Street Side</b> | Lumens    | 5472.7   | 0.0    | 5472.7 |
|                    | % Fixture | 77.1     | 0.0    | 77.1   |
| <b>Total</b>       | Lumens    | 7100.0   | 0.0    | 7100.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 73.7   | 1.0       |
| 10°-20°   | 245.7  | 3.5       |
| 20°-30°   | 409.6  | 5.8       |
| 30°-40°   | 581.3  | 8.2       |
| 40°-50°   | 855.1  | 12.0      |
| 50°-60°   | 1448.1 | 20.4      |
| 60°-70°   | 2055.5 | 29.0      |
| 70°-80°   | 1248.7 | 17.6      |
| 80°-90°   | 182.2  | 2.6       |
| 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°    | 7100.0 | 100.0     |
| 0°-180°   | 7100.0 | 100.0     |

**Coefficient of Utilization**



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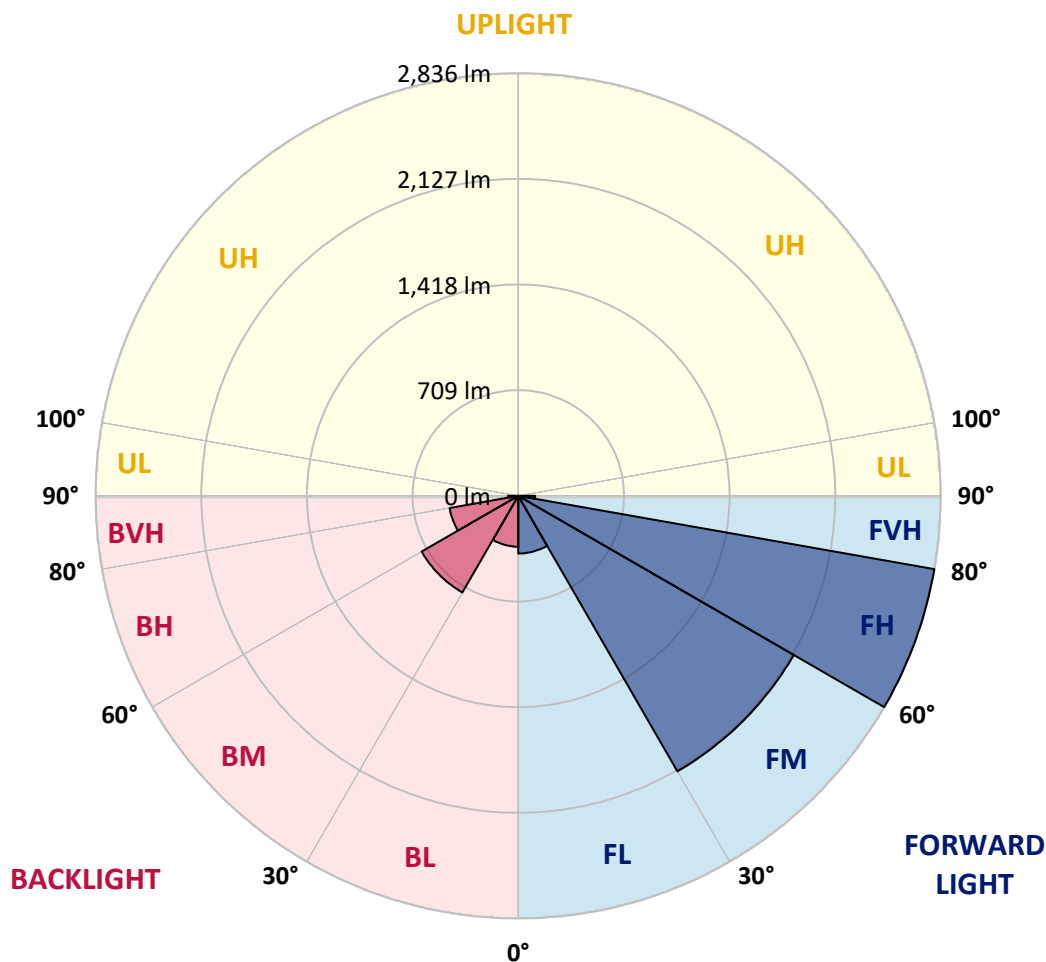
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 387.4  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 2135.4 | 30.1      |                         |      |         |
| FH   | (60°-80°)   | 2836.4 | 39.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 113.5  | 1.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 341.7  | 4.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 749.1  | 10.6      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 467.8  | 6.6       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 68.7   | 1.0       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 46°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 723.4  | 723.4  | 723.4  | 723.4  | 723.4  | 723.4  | 723.4  | 723.4  | 723.4  | 723.4  | 723.4  |
| 2.5°  | 759.6  | 760.0  | 761.0  | 758.6  | 751.8  | 749.8  | 749.1  | 742.1  | 737.4  | 730.6  | 724.8  |
| 5°    | 820.3  | 820.8  | 819.3  | 812.5  | 797.5  | 786.3  | 785.3  | 769.3  | 754.7  | 739.1  | 727.5  |
| 7.5°  | 883.7  | 884.4  | 879.8  | 867.0  | 845.8  | 826.4  | 825.2  | 803.3  | 781.2  | 757.6  | 740.1  |
| 10°   | 939.8  | 936.9  | 929.4  | 911.4  | 886.4  | 862.6  | 861.6  | 838.8  | 813.3  | 784.8  | 761.5  |
| 12.5° | 977.3  | 974.8  | 965.1  | 943.2  | 915.8  | 893.9  | 892.0  | 870.8  | 846.1  | 815.0  | 787.0  |
| 15°   | 997.9  | 999.6  | 986.5  | 961.7  | 935.0  | 916.5  | 914.8  | 899.8  | 877.6  | 846.3  | 814.2  |
| 17.5° | 1000.6 | 1002.0 | 989.4  | 964.9  | 943.0  | 930.4  | 929.6  | 919.7  | 903.6  | 873.5  | 840.0  |
| 20°   | 985.0  | 986.0  | 975.6  | 955.4  | 941.1  | 937.2  | 936.9  | 932.6  | 920.7  | 893.9  | 861.4  |
| 22.5° | 962.4  | 963.2  | 955.6  | 941.1  | 936.2  | 942.3  | 944.0  | 942.3  | 933.8  | 908.7  | 878.1  |
| 25°   | 956.9  | 956.4  | 948.6  | 933.8  | 937.9  | 950.8  | 953.0  | 953.7  | 947.9  | 926.0  | 899.5  |
| 27.5° | 983.8  | 982.1  | 967.3  | 943.5  | 946.2  | 961.7  | 964.6  | 971.7  | 968.0  | 948.8  | 923.8  |
| 30°   | 1061.8 | 1058.9 | 1028.5 | 980.4  | 967.3  | 975.3  | 979.0  | 990.1  | 990.9  | 974.8  | 956.1  |
| 32.5° | 1193.5 | 1189.9 | 1135.4 | 1049.4 | 1003.0 | 989.2  | 992.6  | 1009.3 | 1018.3 | 1005.9 | 985.8  |
| 35°   | 1360.0 | 1355.8 | 1284.4 | 1166.8 | 1062.8 | 1015.7 | 1018.1 | 1031.4 | 1049.4 | 1031.9 | 1005.2 |
| 37.5° | 1533.4 | 1523.5 | 1454.7 | 1304.8 | 1157.8 | 1072.3 | 1072.3 | 1074.0 | 1082.5 | 1046.0 | 1028.0 |
| 40°   | 1706.0 | 1696.0 | 1633.8 | 1467.1 | 1280.7 | 1161.4 | 1155.9 | 1118.2 | 1111.4 | 1080.0 | 1074.0 |
| 42.5° | 1866.3 | 1863.4 | 1826.7 | 1650.6 | 1425.1 | 1249.2 | 1241.4 | 1177.5 | 1178.9 | 1159.5 | 1159.7 |
| 45°   | 2036.9 | 2036.9 | 2007.0 | 1835.7 | 1593.2 | 1390.1 | 1382.3 | 1288.3 | 1302.9 | 1293.9 | 1315.5 |
| 47.5° | 2176.1 | 2180.5 | 2176.4 | 2028.6 | 1788.8 | 1569.2 | 1555.1 | 1441.8 | 1482.7 | 1513.5 | 1576.5 |
| 50°   | 2318.3 | 2325.1 | 2325.8 | 2240.3 | 2025.2 | 1782.0 | 1766.0 | 1645.7 | 1736.8 | 1825.3 | 1948.9 |
| 52.5° | 2524.6 | 2539.9 | 2478.9 | 2451.4 | 2314.9 | 2034.7 | 2018.9 | 1907.9 | 2060.0 | 2184.1 | 2397.2 |
| 55°   | 2715.8 | 2702.4 | 2658.9 | 2675.9 | 2624.9 | 2322.4 | 2310.5 | 2213.1 | 2420.1 | 2581.4 | 2858.2 |
| 57.5° | 2819.3 | 2818.3 | 2862.1 | 2935.0 | 2959.3 | 2677.2 | 2667.2 | 2572.4 | 2826.1 | 2947.3 | 3290.9 |
| 60°   | 2940.8 | 2942.5 | 3050.9 | 3216.3 | 3316.4 | 3118.9 | 3114.5 | 3042.6 | 3220.5 | 3289.0 | 3630.4 |
| 62.5° | 2957.8 | 2988.4 | 3175.0 | 3459.8 | 3650.8 | 3635.0 | 3644.7 | 3466.1 | 3573.3 | 3561.6 | 3883.8 |
| 65°   | 2762.2 | 2802.5 | 3140.3 | 3533.4 | 3983.2 | 4199.4 | 4208.4 | 3892.1 | 3851.5 | 3794.6 | 3974.4 |
| 67.5° | 2361.3 | 2421.1 | 2788.0 | 3373.3 | 4092.8 | 4616.6 | 4629.3 | 4222.3 | 4082.3 | 3873.6 | 3756.2 |
| 70°   | 1718.4 | 1784.7 | 2154.0 | 2881.0 | 3897.4 | 4750.0 | 4764.3 | 4368.3 | 4091.1 | 3648.8 | 3206.6 |
| 72.5° | 1038.0 | 1090.0 | 1394.5 | 2121.0 | 3289.5 | 4507.0 | 4532.5 | 4183.1 | 3735.1 | 3090.7 | 2367.8 |
| 75°   | 455.8  | 489.8  | 674.3  | 1222.2 | 2355.0 | 3729.0 | 3760.8 | 3580.6 | 3034.8 | 2246.1 | 1399.6 |
| 77.5° | 194.1  | 203.9  | 276.5  | 530.9  | 1331.3 | 2548.1 | 2591.9 | 2616.2 | 2059.0 | 1222.2 | 591.4  |
| 80°   | 121.0  | 124.9  | 156.5  | 240.3  | 623.0  | 1431.2 | 1478.3 | 1539.3 | 1022.5 | 449.3  | 206.5  |
| 82.5° | 73.6   | 78.0   | 104.0  | 145.3  | 324.4  | 648.8  | 671.4  | 714.4  | 396.8  | 194.1  | 106.9  |
| 85°   | 44.2   | 47.4   | 63.7   | 91.8   | 184.7  | 255.1  | 254.9  | 281.9  | 186.9  | 124.9  | 56.4   |
| 87.5° | 21.1   | 23.6   | 34.0   | 47.6   | 93.1   | 95.7   | 89.7   | 101.6  | 113.5  | 81.9   | 28.4   |
| 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°    | 723.4  | 723.4  | 723.4  | 723.4 | 723.4 | 723.4 | 723.4 | 723.4 | 723.4 | 723.4 | 723.4 |
| 2.5°  | 722.9  | 721.9  | 718.7  | 716.3 | 715.8 | 714.4 | 713.1 | 713.9 | 714.8 | 715.1 | 715.1 |
| 5°    | 722.6  | 719.9  | 715.8  | 714.1 | 716.3 | 719.2 | 722.9 | 727.7 | 730.6 | 732.8 | 734.3 |
| 7.5°  | 734.3  | 729.2  | 724.6  | 723.6 | 728.0 | 735.7 | 744.0 | 754.2 | 761.3 | 766.1 | 767.1 |
| 10°   | 753.7  | 747.4  | 742.8  | 743.8 | 751.5 | 762.7 | 774.4 | 787.5 | 798.2 | 804.7 | 805.2 |
| 12.5° | 776.1  | 770.0  | 765.6  | 769.8 | 782.6 | 796.2 | 808.4 | 819.8 | 829.5 | 836.1 | 836.1 |
| 15°   | 801.8  | 797.5  | 792.4  | 801.8 | 819.3 | 831.5 | 836.6 | 842.2 | 847.5 | 852.4 | 851.4 |
| 17.5° | 826.6  | 822.5  | 819.8  | 831.0 | 849.2 | 854.8 | 851.4 | 847.3 | 847.3 | 849.9 | 850.4 |
| 20°   | 848.0  | 844.4  | 846.1  | 857.0 | 866.5 | 860.6 | 848.0 | 834.9 | 829.5 | 831.0 | 832.4 |
| 22.5° | 866.7  | 865.0  | 870.1  | 875.2 | 868.4 | 848.0 | 824.7 | 806.9 | 800.4 | 799.9 | 800.4 |
| 25°   | 888.6  | 888.3  | 894.7  | 885.4 | 855.3 | 817.6 | 786.3 | 769.0 | 765.4 | 768.3 | 773.2 |
| 27.5° | 915.8  | 918.5  | 921.6  | 887.8 | 828.6 | 771.7 | 739.9 | 728.0 | 731.6 | 738.7 | 743.3 |
| 30°   | 950.5  | 957.8  | 951.0  | 881.8 | 790.2 | 719.2 | 688.8 | 685.4 | 695.4 | 705.4 | 710.2 |
| 32.5° | 984.3  | 995.7  | 979.2  | 866.0 | 740.6 | 663.6 | 640.0 | 639.0 | 651.2 | 660.9 | 667.7 |
| 35°   | 1011.5 | 1034.1 | 1000.3 | 834.6 | 683.3 | 612.3 | 595.1 | 588.5 | 592.9 | 604.3 | 612.1 |
| 37.5° | 1047.0 | 1084.7 | 1014.9 | 786.8 | 621.1 | 570.0 | 549.9 | 534.8 | 530.9 | 535.5 | 539.4 |
| 40°   | 1111.9 | 1161.7 | 1021.7 | 719.9 | 560.3 | 527.8 | 507.3 | 485.2 | 469.9 | 458.7 | 459.0 |
| 42.5° | 1217.8 | 1262.0 | 1017.4 | 638.8 | 504.2 | 486.4 | 463.4 | 437.8 | 413.1 | 387.8 | 385.9 |
| 45°   | 1389.8 | 1411.2 | 1004.2 | 552.8 | 454.9 | 443.2 | 421.6 | 396.1 | 363.0 | 334.3 | 331.7 |
| 47.5° | 1665.1 | 1617.8 | 983.8  | 477.7 | 411.4 | 406.5 | 386.6 | 357.2 | 322.2 | 299.1 | 297.2 |
| 50°   | 2040.5 | 1915.9 | 973.9  | 417.9 | 373.0 | 374.4 | 358.2 | 327.1 | 294.0 | 277.0 | 275.1 |
| 52.5° | 2489.6 | 2263.1 | 993.1  | 371.8 | 342.1 | 347.2 | 335.1 | 305.9 | 278.2 | 264.8 | 262.9 |
| 55°   | 2955.4 | 2622.7 | 1013.7 | 338.2 | 313.0 | 322.9 | 318.8 | 294.7 | 269.7 | 257.3 | 255.6 |
| 57.5° | 3354.1 | 2891.2 | 972.4  | 311.0 | 287.0 | 302.5 | 306.2 | 287.7 | 265.3 | 254.2 | 252.2 |
| 60°   | 3605.1 | 2999.3 | 864.0  | 285.5 | 266.3 | 286.2 | 298.9 | 285.7 | 267.0 | 266.1 | 264.6 |
| 62.5° | 3724.2 | 2989.9 | 701.5  | 265.3 | 253.4 | 279.2 | 304.2 | 296.7 | 286.5 | 295.2 | 295.9 |
| 65°   | 3670.7 | 2847.0 | 522.4  | 252.0 | 244.2 | 281.9 | 320.2 | 317.3 | 292.1 | 300.8 | 302.0 |
| 67.5° | 3318.9 | 2506.1 | 386.8  | 240.3 | 234.0 | 289.4 | 349.4 | 324.1 | 281.1 | 287.4 | 283.6 |
| 70°   | 2682.5 | 1986.8 | 298.4  | 227.2 | 223.5 | 288.4 | 362.5 | 320.0 | 269.2 | 270.7 | 260.2 |
| 72.5° | 1849.8 | 1354.9 | 242.7  | 215.0 | 208.5 | 262.9 | 353.3 | 309.8 | 259.3 | 248.1 | 234.2 |
| 75°   | 1005.9 | 727.2  | 206.3  | 202.4 | 182.0 | 230.8 | 336.3 | 302.5 | 250.3 | 235.4 | 227.7 |
| 77.5° | 395.8  | 301.8  | 179.1  | 185.2 | 159.2 | 203.9 | 317.3 | 288.7 | 237.9 | 218.4 | 214.6 |
| 80°   | 161.6  | 154.0  | 148.5  | 160.1 | 136.8 | 178.3 | 294.5 | 272.4 | 223.1 | 202.6 | 194.9 |
| 82.5° | 91.6   | 95.7   | 115.4  | 126.3 | 111.0 | 164.3 | 283.6 | 259.3 | 205.3 | 181.5 | 172.3 |
| 85°   | 46.9   | 56.1   | 80.4   | 90.6  | 81.6  | 139.7 | 261.2 | 226.9 | 164.7 | 139.0 | 139.7 |
| 87.5° | 22.6   | 31.3   | 50.8   | 56.9  | 53.0  | 101.1 | 195.1 | 164.5 | 128.3 | 101.6 | 98.4  |
| 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)