

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: P385957

Luminaire Tested: GAW-SA1C-735-U-T4W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385957  
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-SA1C-735-U-T4W  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7047.3 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

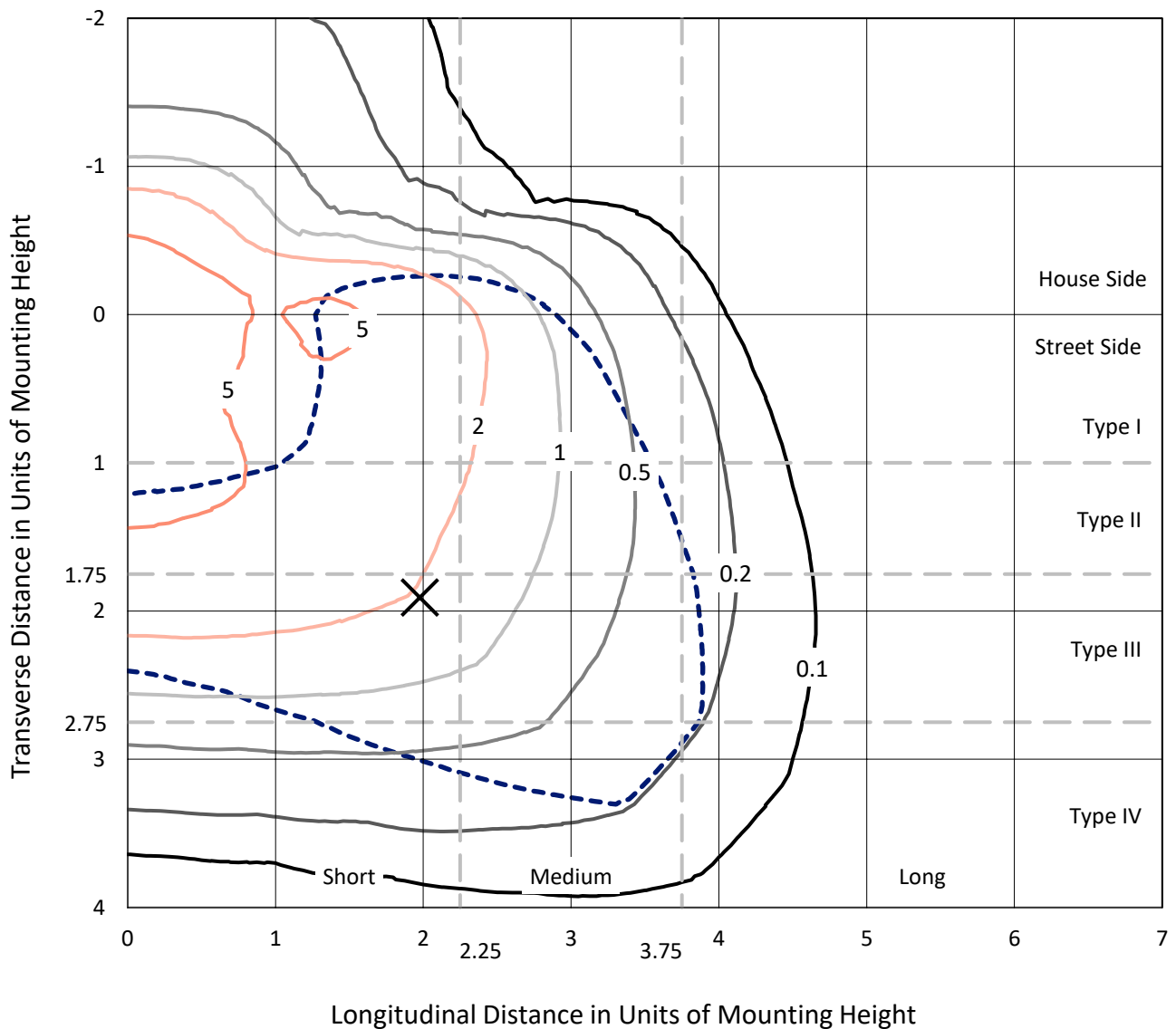
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

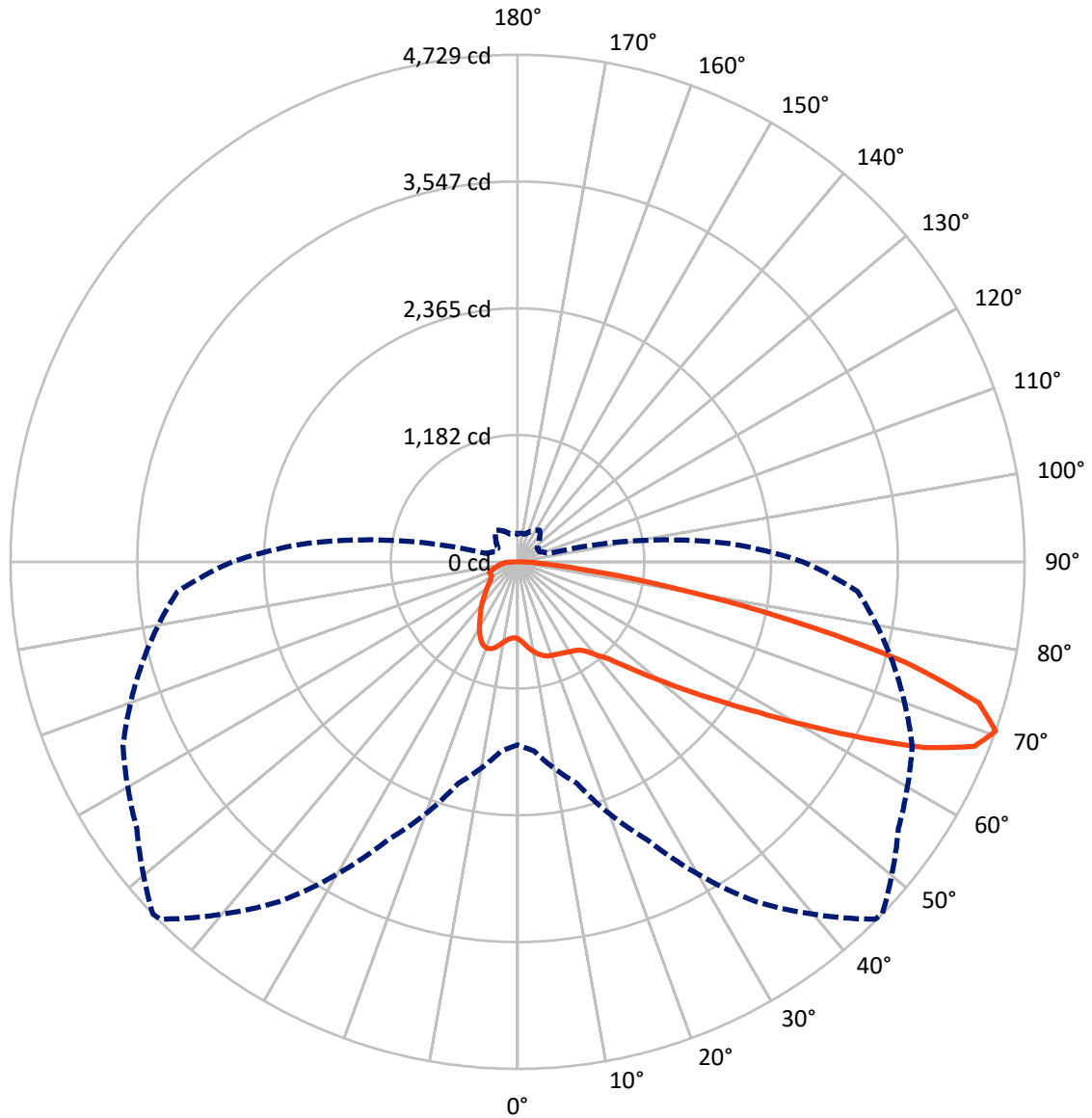
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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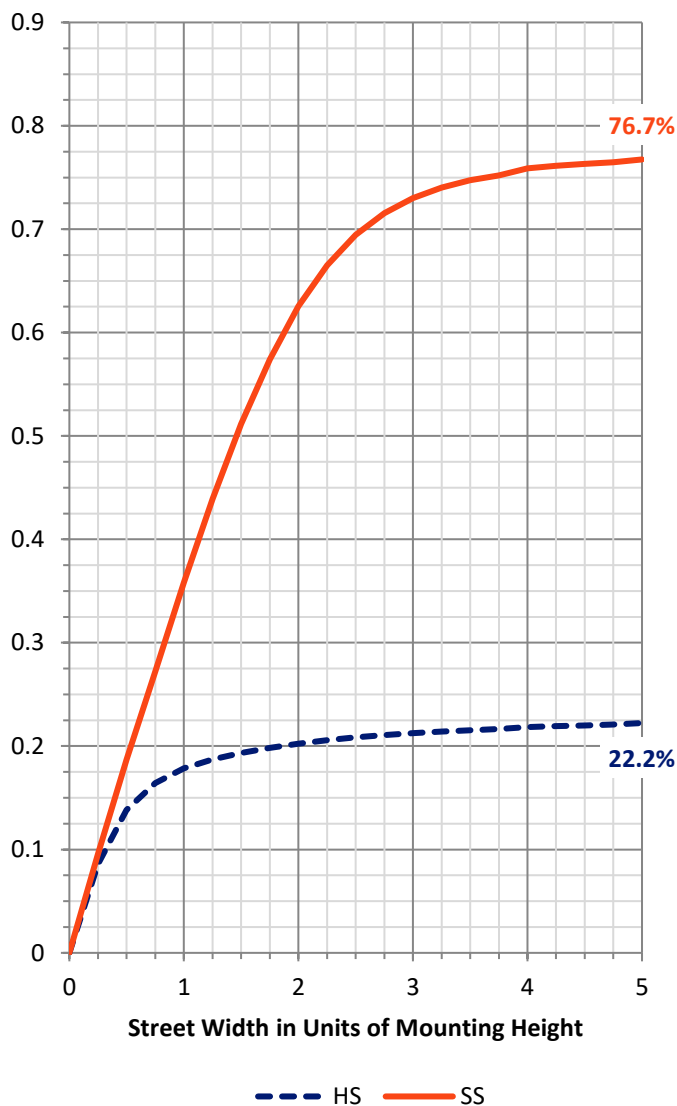
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1615.2   | 0.0    | 1615.2 |
|                    | % Fixture | 22.9     | 0.0    | 22.9   |
| <b>Street Side</b> | Lumens    | 5432.1   | 0.0    | 5432.1 |
|                    | % Fixture | 77.1     | 0.0    | 77.1   |
| <b>Total</b>       | Lumens    | 7047.3   | 0.0    | 7047.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 73.2   | 1.0       |
| 10°-20°   | 243.9  | 3.5       |
| 20°-30°   | 406.6  | 5.8       |
| 30°-40°   | 577.0  | 8.2       |
| 40°-50°   | 848.7  | 12.0      |
| 50°-60°   | 1437.3 | 20.4      |
| 60°-70°   | 2040.3 | 29.0      |
| 70°-80°   | 1239.5 | 17.6      |
| 80°-90°   | 180.9  | 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°    | 7047.3 | 100.0     |
| 0°-180°   | 7047.3 | 100.0     |

**Coefficient of Utilization**



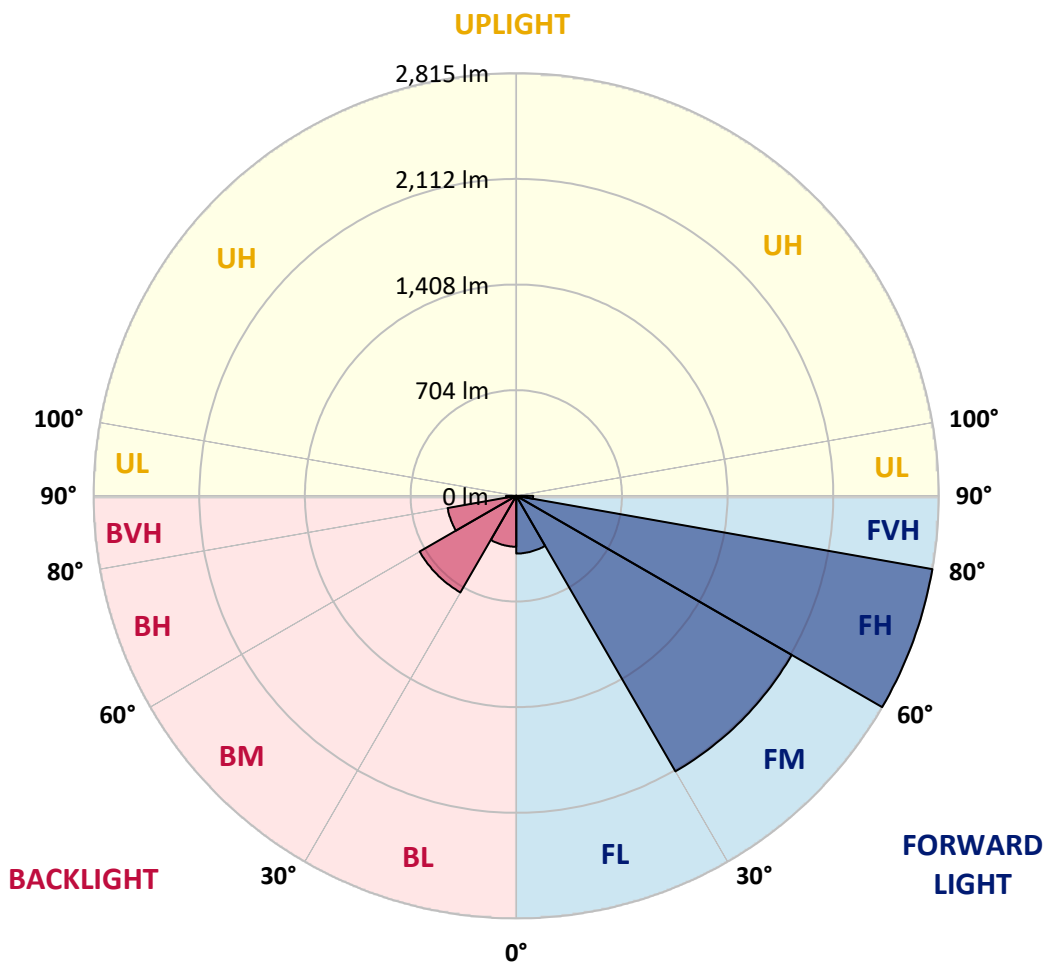
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 384.5  | 5.5       |                         |      |         |
| FM (30°-60°)   | 2119.5 | 30.1      |                         |      |         |
| FH (60°-80°)   | 2815.4 | 39.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 112.7  | 1.6       |                         |      | G2/225  |
| BL (0°-30°)    | 339.1  | 4.8       | B1/500                  |      |         |
| BM (30°-60°)   | 743.5  | 10.6      | B1/1000                 |      |         |
| BH (60°-80°)   | 464.4  | 6.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 68.2   | 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°    | 718.0  | 718.0  | 718.0  | 718.0  | 718.0  | 718.0  | 718.0  | 718.0  | 718.0  | 718.0  | 718.0  |
| 2.5°  | 754.0  | 754.4  | 755.4  | 752.9  | 746.2  | 744.3  | 743.5  | 736.6  | 732.0  | 725.2  | 719.4  |
| 5°    | 814.2  | 814.7  | 813.2  | 806.5  | 791.5  | 780.4  | 779.5  | 763.5  | 749.1  | 733.7  | 722.1  |
| 7.5°  | 877.2  | 877.9  | 873.3  | 860.5  | 839.5  | 820.3  | 819.1  | 797.4  | 775.4  | 752.0  | 734.6  |
| 10°   | 932.9  | 930.0  | 922.5  | 904.6  | 879.8  | 856.2  | 855.2  | 832.6  | 807.2  | 779.0  | 755.8  |
| 12.5° | 970.0  | 967.6  | 958.0  | 936.3  | 909.0  | 887.3  | 885.4  | 864.3  | 839.8  | 808.9  | 781.2  |
| 15°   | 990.5  | 992.2  | 979.2  | 954.6  | 928.0  | 909.7  | 908.0  | 893.1  | 871.1  | 840.0  | 808.2  |
| 17.5° | 993.1  | 994.6  | 982.0  | 957.7  | 936.0  | 923.4  | 922.8  | 912.9  | 896.9  | 867.1  | 833.7  |
| 20°   | 977.7  | 978.7  | 968.3  | 948.3  | 934.0  | 930.2  | 930.0  | 925.7  | 913.8  | 887.3  | 854.9  |
| 22.5° | 955.3  | 956.0  | 948.5  | 934.0  | 929.2  | 935.3  | 937.0  | 935.3  | 926.8  | 902.0  | 871.6  |
| 25°   | 949.7  | 949.3  | 941.6  | 926.8  | 930.9  | 943.7  | 945.9  | 946.6  | 940.8  | 919.1  | 892.8  |
| 27.5° | 976.5  | 974.8  | 960.2  | 936.5  | 939.1  | 954.6  | 957.4  | 964.5  | 960.8  | 941.8  | 916.9  |
| 30°   | 1053.9 | 1051.1 | 1020.9 | 973.1  | 960.2  | 968.0  | 971.7  | 982.8  | 983.5  | 967.6  | 949.1  |
| 32.5° | 1184.7 | 1181.0 | 1127.0 | 1041.6 | 995.6  | 981.9  | 985.2  | 1001.9 | 1010.8 | 998.5  | 978.5  |
| 35°   | 1349.9 | 1345.8 | 1274.9 | 1158.2 | 1054.9 | 1008.2 | 1010.5 | 1023.8 | 1041.6 | 1024.3 | 997.7  |
| 37.5° | 1522.1 | 1512.1 | 1443.9 | 1295.1 | 1149.3 | 1064.3 | 1064.3 | 1066.0 | 1074.5 | 1038.3 | 1020.5 |
| 40°   | 1693.4 | 1683.4 | 1621.7 | 1456.2 | 1271.3 | 1152.8 | 1147.3 | 1109.9 | 1103.1 | 1072.0 | 1066.0 |
| 42.5° | 1852.5 | 1849.6 | 1813.2 | 1638.3 | 1414.5 | 1239.9 | 1232.2 | 1168.7 | 1170.2 | 1150.9 | 1151.1 |
| 45°   | 2021.8 | 2021.8 | 1992.2 | 1822.1 | 1581.4 | 1379.8 | 1372.1 | 1278.7 | 1293.2 | 1284.2 | 1305.8 |
| 47.5° | 2159.9 | 2164.4 | 2160.2 | 2013.6 | 1775.5 | 1557.5 | 1543.5 | 1431.2 | 1471.7 | 1502.3 | 1564.7 |
| 50°   | 2301.0 | 2307.8 | 2308.6 | 2223.6 | 2010.2 | 1768.8 | 1752.9 | 1633.5 | 1724.0 | 1811.7 | 1934.5 |
| 52.5° | 2505.8 | 2521.1 | 2460.5 | 2433.2 | 2297.7 | 2019.6 | 2003.9 | 1893.7 | 2044.7 | 2167.9 | 2379.5 |
| 55°   | 2695.7 | 2682.3 | 2639.2 | 2656.0 | 2605.4 | 2305.2 | 2293.3 | 2196.7 | 2402.1 | 2562.3 | 2837.0 |
| 57.5° | 2798.4 | 2797.4 | 2840.8 | 2913.2 | 2937.3 | 2657.3 | 2647.4 | 2553.4 | 2805.1 | 2925.5 | 3266.6 |
| 60°   | 2919.0 | 2920.7 | 3028.2 | 3192.4 | 3291.8 | 3095.8 | 3091.5 | 3020.1 | 3196.6 | 3264.6 | 3603.4 |
| 62.5° | 2935.9 | 2966.2 | 3151.5 | 3434.1 | 3623.7 | 3608.0 | 3617.7 | 3440.4 | 3546.8 | 3535.2 | 3855.0 |
| 65°   | 2741.7 | 2781.7 | 3117.0 | 3507.2 | 3953.6 | 4168.3 | 4177.2 | 3863.2 | 3822.9 | 3766.5 | 3945.0 |
| 67.5° | 2343.8 | 2403.1 | 2767.3 | 3348.3 | 4062.4 | 4582.4 | 4595.0 | 4190.9 | 4052.0 | 3844.8 | 3728.4 |
| 70°   | 1705.6 | 1771.4 | 2138.1 | 2859.6 | 3868.5 | 4714.8 | 4729.0 | 4335.9 | 4060.7 | 3621.7 | 3182.9 |
| 72.5° | 1030.3 | 1081.9 | 1384.1 | 2105.3 | 3265.1 | 4473.6 | 4498.9 | 4152.1 | 3707.4 | 3067.8 | 2350.3 |
| 75°   | 452.4  | 486.2  | 669.2  | 1213.1 | 2337.5 | 3701.3 | 3733.0 | 3554.0 | 3012.3 | 2229.5 | 1389.2 |
| 77.5° | 192.7  | 202.3  | 274.5  | 527.0  | 1321.4 | 2529.2 | 2572.6 | 2596.8 | 2043.7 | 1213.1 | 587.0  |
| 80°   | 120.1  | 124.0  | 155.3  | 238.5  | 618.4  | 1420.6 | 1467.3 | 1527.8 | 1014.9 | 445.9  | 205.0  |
| 82.5° | 73.1   | 77.4   | 103.2  | 144.2  | 321.9  | 644.0  | 666.4  | 709.1  | 393.9  | 192.7  | 106.2  |
| 85°   | 43.9   | 47.1   | 63.2   | 91.1   | 183.3  | 253.3  | 253.0  | 279.8  | 185.4  | 124.0  | 56.0   |
| 87.5° | 20.9   | 23.4   | 33.7   | 47.3   | 92.3   | 95.1   | 89.0   | 100.8  | 112.6  | 81.3   | 28.2   |
| 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°    | 718.0  | 718.0  | 718.0  | 718.0 | 718.0 | 718.0 | 718.0 | 718.0 | 718.0 | 718.0 | 718.0 |
| 2.5°  | 717.5  | 716.6  | 713.4  | 711.0 | 710.5 | 709.1 | 707.8 | 708.6 | 709.5 | 709.8 | 709.8 |
| 5°    | 717.2  | 714.6  | 710.5  | 708.9 | 711.0 | 713.8 | 717.5 | 722.3 | 725.2 | 727.4 | 728.9 |
| 7.5°  | 728.9  | 723.8  | 719.2  | 718.3 | 722.6 | 730.3 | 738.5 | 748.6 | 755.6 | 760.4 | 761.4 |
| 10°   | 748.1  | 741.8  | 737.2  | 738.3 | 746.0 | 757.1 | 768.6 | 781.7 | 792.3 | 798.8 | 799.2 |
| 12.5° | 770.3  | 764.3  | 760.0  | 764.0 | 776.9 | 790.3 | 802.4 | 813.7 | 823.4 | 829.9 | 829.9 |
| 15°   | 795.9  | 791.5  | 786.5  | 795.9 | 813.2 | 825.4 | 830.3 | 836.0 | 841.2 | 846.0 | 845.1 |
| 17.5° | 820.5  | 816.4  | 813.7  | 824.8 | 842.9 | 848.5 | 845.1 | 840.9 | 840.9 | 843.7 | 844.1 |
| 20°   | 841.7  | 838.1  | 839.8  | 850.6 | 860.0 | 854.3 | 841.7 | 828.6 | 823.4 | 824.8 | 826.3 |
| 22.5° | 860.3  | 858.6  | 863.7  | 868.8 | 862.0 | 841.7 | 818.6 | 800.9 | 794.4 | 794.0 | 794.4 |
| 25°   | 882.0  | 881.7  | 888.0  | 878.9 | 848.9 | 811.5 | 780.4 | 763.4 | 759.7 | 762.6 | 767.4 |
| 27.5° | 909.0  | 911.7  | 914.8  | 881.2 | 822.4 | 766.0 | 734.4 | 722.6 | 726.2 | 733.2 | 737.8 |
| 30°   | 943.5  | 950.8  | 944.0  | 875.2 | 784.3 | 713.8 | 683.8 | 680.4 | 690.3 | 700.1 | 704.9 |
| 32.5° | 977.0  | 988.3  | 972.0  | 859.5 | 735.1 | 658.6 | 635.2 | 634.3 | 646.4 | 656.0 | 662.7 |
| 35°   | 1004.0 | 1026.5 | 992.9  | 828.5 | 678.1 | 607.8 | 590.6 | 584.1 | 588.4 | 599.8 | 607.5 |
| 37.5° | 1039.3 | 1076.6 | 1007.4 | 780.9 | 616.4 | 565.8 | 545.8 | 530.9 | 527.0 | 531.5 | 535.5 |
| 40°   | 1103.6 | 1153.1 | 1014.2 | 714.6 | 556.1 | 523.8 | 503.6 | 481.6 | 466.4 | 455.3 | 455.6 |
| 42.5° | 1208.8 | 1252.7 | 1009.8 | 634.1 | 500.4 | 482.8 | 459.9 | 434.6 | 410.0 | 385.0 | 383.0 |
| 45°   | 1379.5 | 1400.7 | 996.8  | 548.7 | 451.5 | 439.9 | 418.4 | 393.1 | 360.4 | 331.9 | 329.2 |
| 47.5° | 1652.8 | 1605.8 | 976.5  | 474.1 | 408.4 | 403.5 | 383.7 | 354.5 | 319.8 | 296.8 | 295.0 |
| 50°   | 2025.4 | 1901.7 | 966.6  | 414.8 | 370.2 | 371.6 | 355.5 | 324.7 | 291.9 | 275.0 | 273.0 |
| 52.5° | 2471.1 | 2246.4 | 985.7  | 369.0 | 339.6 | 344.7 | 332.5 | 303.6 | 276.2 | 262.8 | 261.0 |
| 55°   | 2933.4 | 2603.2 | 1006.2 | 335.7 | 310.7 | 320.5 | 316.4 | 292.5 | 267.7 | 255.4 | 253.7 |
| 57.5° | 3329.2 | 2869.8 | 965.2  | 308.7 | 284.8 | 300.2 | 303.9 | 285.6 | 263.4 | 252.2 | 250.3 |
| 60°   | 3578.3 | 2977.1 | 857.7  | 283.4 | 264.3 | 284.1 | 296.7 | 283.6 | 265.1 | 264.1 | 262.7 |
| 62.5° | 3696.5 | 2967.7 | 696.3  | 263.4 | 251.6 | 277.1 | 301.9 | 294.5 | 284.4 | 293.0 | 293.7 |
| 65°   | 3643.4 | 2825.9 | 518.5  | 250.1 | 242.4 | 279.8 | 317.9 | 315.0 | 289.9 | 298.5 | 299.8 |
| 67.5° | 3294.3 | 2487.5 | 383.9  | 238.5 | 232.2 | 287.3 | 346.8 | 321.7 | 279.0 | 285.3 | 281.4 |
| 70°   | 2662.6 | 1972.1 | 296.2  | 225.5 | 221.9 | 286.2 | 359.9 | 317.6 | 267.3 | 268.7 | 258.3 |
| 72.5° | 1836.0 | 1344.8 | 241.0  | 213.4 | 206.9 | 261.0 | 350.7 | 307.5 | 257.3 | 246.2 | 232.5 |
| 75°   | 998.5  | 721.8  | 204.8  | 200.9 | 180.6 | 229.1 | 333.8 | 300.2 | 248.4 | 233.7 | 226.0 |
| 77.5° | 392.9  | 299.6  | 177.7  | 183.7 | 158.0 | 202.3 | 315.0 | 286.5 | 236.1 | 216.8 | 213.0 |
| 80°   | 160.4  | 152.9  | 147.4  | 158.9 | 135.7 | 177.0 | 292.3 | 270.4 | 221.4 | 201.1 | 193.4 |
| 82.5° | 90.9   | 95.1   | 114.6  | 125.4 | 110.2 | 163.1 | 281.4 | 257.3 | 203.8 | 180.2 | 171.0 |
| 85°   | 46.6   | 55.7   | 79.8   | 90.0  | 81.1  | 138.7 | 259.3 | 225.3 | 163.5 | 138.0 | 138.7 |
| 87.5° | 22.5   | 31.1   | 50.4   | 56.5  | 52.6  | 100.3 | 193.7 | 163.3 | 127.4 | 100.8 | 97.7  |
| 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)