

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: P386143

Luminaire Tested: GAW-SA1D-730-U-T2

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386143  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1D-730-U-T2  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7405 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

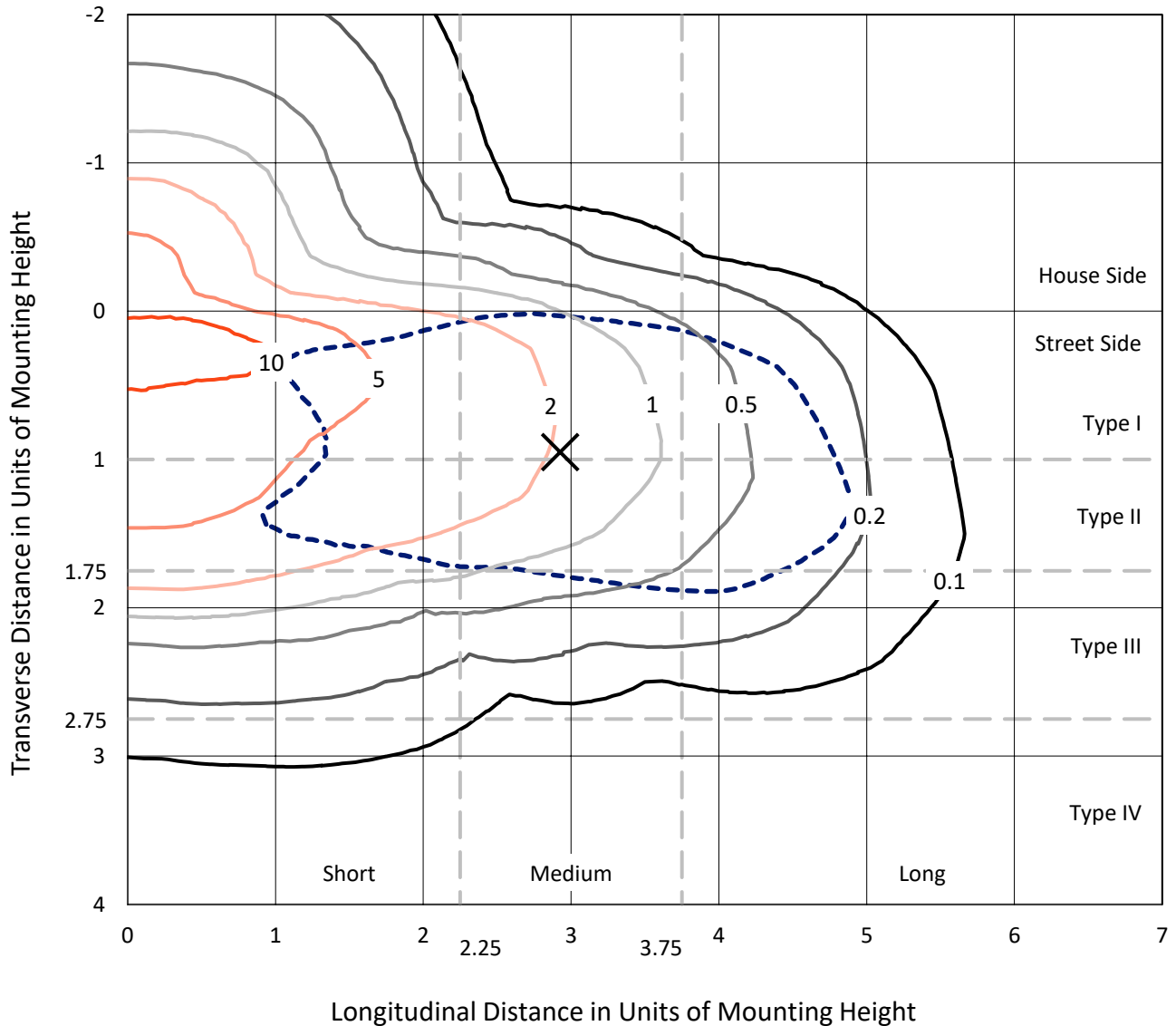
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

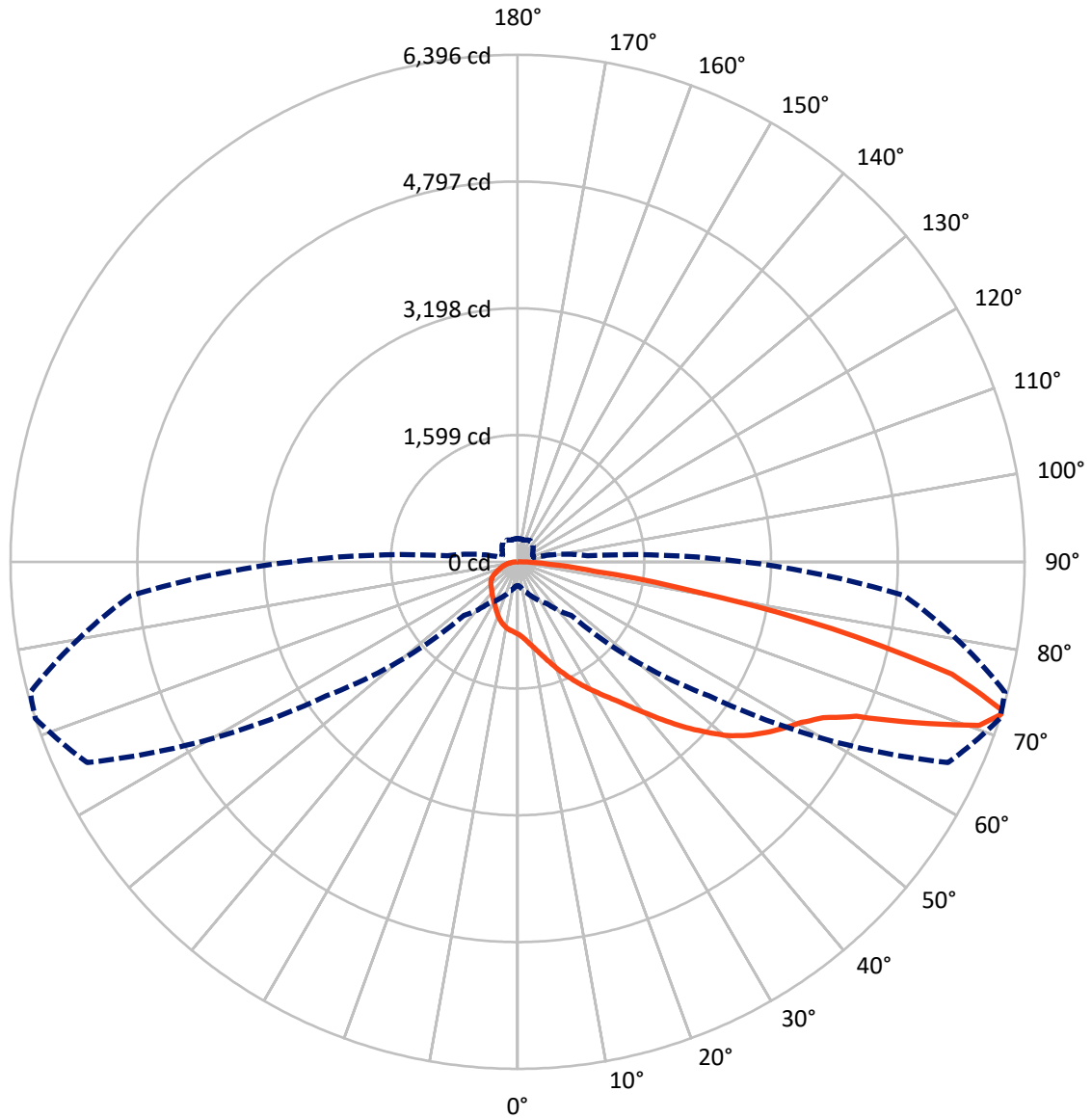
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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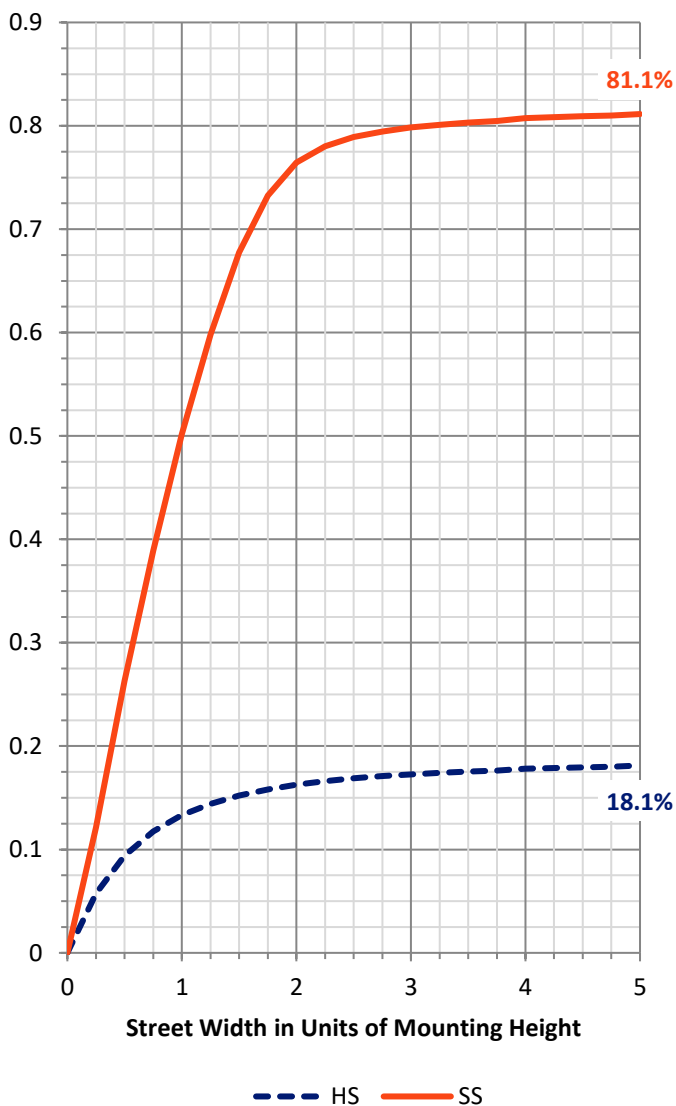
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1373.7   | 0.0    | 1373.7 |
|                    | % Fixture | 18.6     | 0.0    | 18.6   |
| <b>Street Side</b> | Lumens    | 6031.3   | 0.0    | 6031.3 |
|                    | % Fixture | 81.4     | 0.0    | 81.4   |
| <b>Total</b>       | Lumens    | 7405.0   | 0.0    | 7405.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 91.3   | 1.2       |
| 10°-20°   | 295.0  | 4.0       |
| 20°-30°   | 516.9  | 7.0       |
| 30°-40°   | 766.4  | 10.4      |
| 40°-50°   | 1121.0 | 15.1      |
| 50°-60°   | 1542.4 | 20.8      |
| 60°-70°   | 1717.2 | 23.2      |
| 70°-80°   | 1163.6 | 15.7      |
| 80°-90°   | 191.2  | 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°    | 7405.0 | 100.0     |
| 0°-180°   | 7405.0 | 100.0     |

**Coefficient of Utilization**

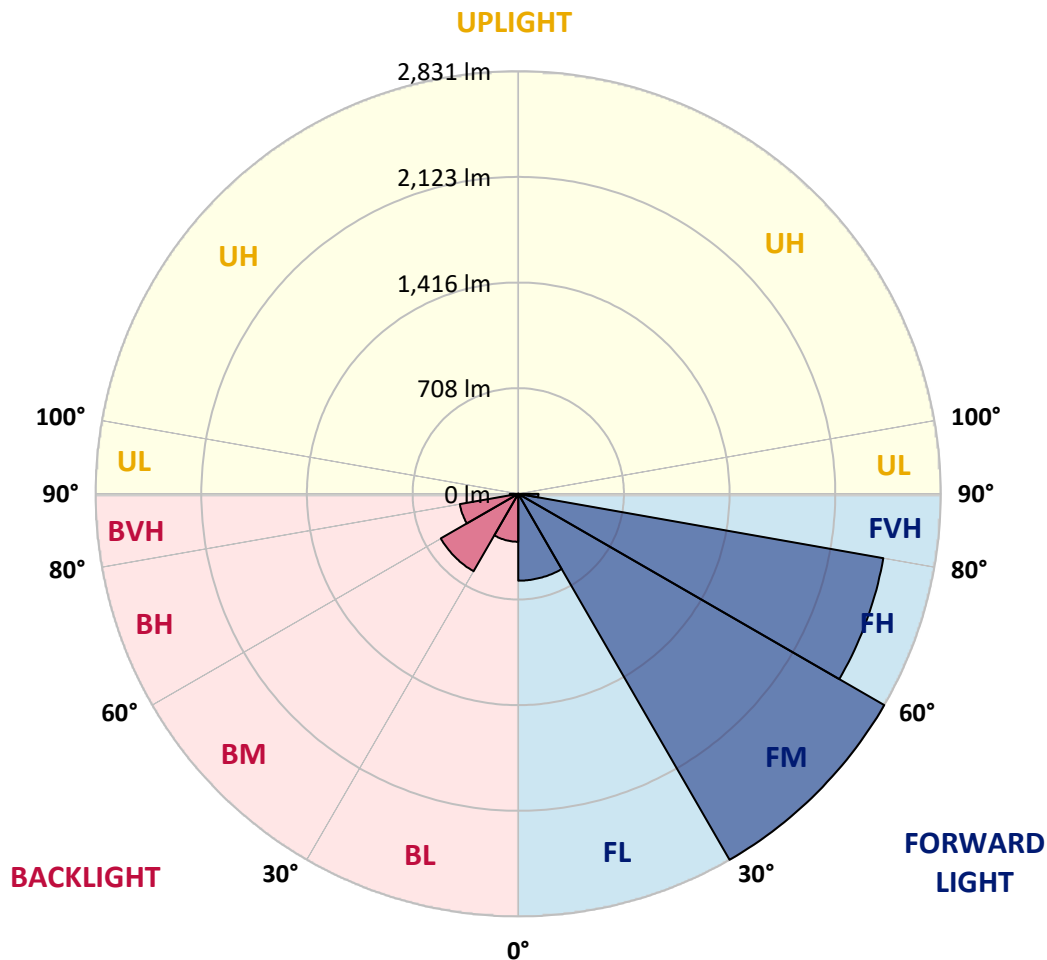


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 582.1  | 7.9       |                         |      |         |
| FM (30°-60°)   | 2831.0 | 38.2      |                         |      |         |
| FH (60°-80°)   | 2483.3 | 33.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 134.9  | 1.8       |                         |      | G2/225  |
| BL (0°-30°)    | 321.1  | 4.3       | B1/500                  |      |         |
| BM (30°-60°)   | 598.8  | 8.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 397.4  | 5.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 56.3   | 0.8       |                         |      | 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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 72°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 911.0  | 911.0  | 911.0  | 911.0  | 911.0  | 911.0  | 911.0  | 911.0  | 911.0  | 911.0  | 911.0  |
| 2.5°  | 1006.4 | 1004.8 | 999.5  | 999.5  | 989.3  | 980.6  | 964.3  | 953.3  | 940.3  | 935.7  | 920.4  |
| 5°    | 1103.8 | 1104.3 | 1097.6 | 1093.1 | 1078.0 | 1059.7 | 1031.9 | 1006.6 | 981.4  | 971.2  | 939.8  |
| 7.5°  | 1185.6 | 1184.6 | 1182.8 | 1179.0 | 1165.0 | 1146.1 | 1108.6 | 1071.1 | 1033.9 | 1018.6 | 964.6  |
| 10°   | 1238.1 | 1240.4 | 1242.0 | 1243.7 | 1237.9 | 1224.4 | 1188.9 | 1143.3 | 1094.6 | 1073.7 | 994.1  |
| 12.5° | 1264.7 | 1268.7 | 1275.9 | 1288.1 | 1297.8 | 1296.3 | 1270.5 | 1222.1 | 1164.2 | 1137.9 | 1031.1 |
| 15°   | 1280.2 | 1285.6 | 1296.8 | 1318.7 | 1346.0 | 1361.5 | 1354.7 | 1310.8 | 1246.3 | 1213.9 | 1076.2 |
| 17.5° | 1289.9 | 1294.2 | 1311.6 | 1340.9 | 1381.4 | 1422.7 | 1440.8 | 1404.1 | 1339.1 | 1302.1 | 1128.0 |
| 20°   | 1296.5 | 1299.8 | 1321.5 | 1355.9 | 1408.5 | 1474.2 | 1524.7 | 1515.5 | 1441.3 | 1393.4 | 1182.0 |
| 22.5° | 1311.3 | 1314.1 | 1334.8 | 1369.4 | 1427.6 | 1512.5 | 1605.5 | 1619.3 | 1549.2 | 1494.9 | 1239.9 |
| 25°   | 1352.6 | 1352.6 | 1370.0 | 1394.2 | 1448.7 | 1545.6 | 1673.9 | 1734.8 | 1659.3 | 1596.1 | 1293.5 |
| 27.5° | 1431.4 | 1430.6 | 1437.0 | 1445.4 | 1486.7 | 1579.3 | 1734.8 | 1836.8 | 1773.6 | 1704.5 | 1345.5 |
| 30°   | 1524.7 | 1529.8 | 1530.6 | 1526.5 | 1545.9 | 1621.4 | 1791.2 | 1944.4 | 1888.6 | 1814.1 | 1398.8 |
| 32.5° | 1644.8 | 1648.1 | 1644.3 | 1630.8 | 1628.0 | 1681.0 | 1846.5 | 2057.1 | 2013.0 | 1928.6 | 1447.5 |
| 35°   | 1797.3 | 1790.9 | 1778.9 | 1751.4 | 1725.1 | 1760.8 | 1909.7 | 2169.8 | 2152.7 | 2067.0 | 1514.5 |
| 37.5° | 1960.7 | 1961.0 | 1946.2 | 1883.7 | 1847.5 | 1862.8 | 1996.9 | 2297.5 | 2321.8 | 2231.8 | 1600.4 |
| 40°   | 2091.8 | 2098.7 | 2107.8 | 2025.7 | 1978.8 | 2000.0 | 2107.8 | 2445.7 | 2521.7 | 2427.1 | 1712.4 |
| 42.5° | 2183.3 | 2191.2 | 2217.2 | 2165.7 | 2117.0 | 2156.3 | 2238.4 | 2603.8 | 2746.0 | 2652.5 | 1843.4 |
| 45°   | 2280.2 | 2284.5 | 2302.9 | 2280.7 | 2249.6 | 2338.1 | 2385.5 | 2767.4 | 2983.4 | 2892.6 | 1990.0 |
| 47.5° | 2382.2 | 2386.8 | 2405.6 | 2390.9 | 2374.5 | 2507.9 | 2539.0 | 2921.7 | 3210.8 | 3156.5 | 2146.6 |
| 50°   | 2508.1 | 2511.2 | 2529.0 | 2502.3 | 2507.4 | 2635.9 | 2676.2 | 3063.2 | 3449.2 | 3393.7 | 2303.7 |
| 52.5° | 2680.0 | 2680.8 | 2705.5 | 2681.3 | 2657.3 | 2729.7 | 2794.2 | 3196.6 | 3636.1 | 3609.9 | 2460.7 |
| 55°   | 2814.6 | 2822.8 | 2903.9 | 2898.8 | 2885.0 | 2814.9 | 2892.9 | 3323.5 | 3802.9 | 3815.4 | 2627.5 |
| 57.5° | 2728.7 | 2760.6 | 2924.8 | 3040.5 | 3153.2 | 3026.8 | 3026.2 | 3466.6 | 3957.9 | 4017.1 | 2810.8 |
| 60°   | 2389.8 | 2433.2 | 2675.1 | 2931.9 | 3284.5 | 3395.4 | 3303.1 | 3641.2 | 4114.5 | 4217.0 | 3040.5 |
| 62.5° | 1706.8 | 1778.2 | 2106.1 | 2516.0 | 3104.5 | 3639.7 | 3866.6 | 3918.4 | 4327.4 | 4448.5 | 3339.1 |
| 65°   | 862.8  | 916.9  | 1191.7 | 1685.6 | 2480.3 | 3480.1 | 4479.1 | 4525.2 | 4697.3 | 4804.9 | 3798.8 |
| 67.5° | 524.2  | 544.6  | 678.7  | 937.5  | 1520.6 | 2710.8 | 4679.0 | 5536.7 | 5413.3 | 5470.4 | 4454.3 |
| 70°   | 386.3  | 401.3  | 485.0  | 622.6  | 874.5  | 1590.8 | 4065.5 | 6258.5 | 6177.4 | 6171.0 | 4938.8 |
| 72°   | 300.9  | 311.8  | 385.8  | 503.1  | 639.5  | 954.4  | 2946.7 | 5992.1 | 6396.2 | 6364.1 | 4894.4 |
| 72.5° | 285.3  | 295.0  | 362.3  | 473.5  | 604.3  | 865.1  | 2649.4 | 5812.3 | 6380.4 | 6365.8 | 4837.0 |
| 75°   | 224.6  | 231.5  | 268.2  | 366.1  | 473.0  | 490.8  | 1451.8 | 4504.3 | 5660.1 | 5895.4 | 4350.6 |
| 77.5° | 185.9  | 186.9  | 206.3  | 266.4  | 368.7  | 347.0  | 713.2  | 3125.2 | 4053.0 | 4311.8 | 3081.8 |
| 80°   | 151.5  | 152.7  | 161.9  | 186.9  | 278.9  | 256.8  | 338.6  | 1797.0 | 2269.2 | 2272.0 | 1465.6 |
| 82.5° | 120.6  | 120.9  | 131.1  | 136.7  | 200.4  | 183.6  | 194.0  | 843.7  | 991.6  | 953.8  | 526.8  |
| 85°   | 84.9   | 83.1   | 128.0  | 112.2  | 131.1  | 117.8  | 107.1  | 334.0  | 410.0  | 392.1  | 165.0  |
| 87.5° | 28.3   | 29.3   | 56.9   | 72.7   | 76.5   | 66.8   | 47.7   | 128.0  | 154.8  | 153.5  | 52.3   |
| 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°    | 911.0  | 911.0  | 911.0 | 911.0 | 911.0 | 911.0 | 911.0 | 911.0 | 911.0 | 911.0 | 911.0 |
| 2.5°  | 915.6  | 907.4  | 895.5 | 882.2 | 871.7 | 861.0 | 853.1 | 849.1 | 844.5 | 840.6 | 845.2 |
| 5°    | 925.3  | 910.0  | 884.5 | 859.5 | 841.1 | 824.8 | 813.1 | 807.0 | 801.4 | 797.5 | 798.1 |
| 7.5°  | 941.1  | 916.4  | 873.5 | 837.1 | 811.6 | 794.0 | 782.0 | 777.9 | 774.3 | 773.3 | 774.6 |
| 10°   | 957.9  | 921.5  | 859.0 | 810.5 | 781.5 | 767.0 | 761.6 | 764.4 | 767.0 | 769.2 | 771.8 |
| 12.5° | 977.0  | 926.1  | 837.8 | 779.4 | 754.7 | 749.1 | 754.5 | 766.7 | 775.6 | 781.0 | 784.3 |
| 15°   | 1002.0 | 930.1  | 813.4 | 748.3 | 731.8 | 738.1 | 756.2 | 777.4 | 793.0 | 802.9 | 804.4 |
| 17.5° | 1025.0 | 929.9  | 782.0 | 717.0 | 713.2 | 731.8 | 759.0 | 788.9 | 809.8 | 823.8 | 826.6 |
| 20°   | 1048.7 | 923.0  | 745.5 | 686.4 | 694.3 | 724.9 | 760.3 | 796.3 | 821.5 | 837.8 | 841.7 |
| 22.5° | 1070.9 | 911.0  | 705.5 | 658.6 | 678.5 | 715.7 | 755.5 | 791.9 | 817.2 | 830.4 | 834.5 |
| 25°   | 1085.9 | 890.1  | 665.0 | 635.1 | 664.5 | 704.5 | 739.7 | 769.0 | 787.9 | 794.5 | 795.5 |
| 27.5° | 1093.6 | 862.8  | 626.7 | 614.7 | 649.9 | 686.1 | 710.3 | 724.9 | 730.2 | 729.7 | 728.7 |
| 30°   | 1094.6 | 826.9  | 593.8 | 598.2 | 633.1 | 659.1 | 670.6 | 667.8 | 660.9 | 649.2 | 650.2 |
| 32.5° | 1091.3 | 786.3  | 566.3 | 582.4 | 611.7 | 626.2 | 626.7 | 613.2 | 594.8 | 576.2 | 571.1 |
| 35°   | 1092.3 | 746.6  | 542.1 | 564.5 | 585.7 | 592.0 | 586.2 | 566.3 | 541.3 | 517.3 | 512.2 |
| 37.5° | 1103.5 | 711.9  | 521.2 | 543.9 | 556.9 | 558.4 | 550.0 | 529.1 | 510.7 | 487.2 | 485.2 |
| 40°   | 1130.3 | 687.1  | 501.3 | 520.6 | 528.0 | 528.8 | 516.8 | 502.0 | 503.6 | 491.1 | 490.8 |
| 42.5° | 1178.5 | 676.4  | 483.7 | 496.4 | 501.0 | 502.5 | 493.4 | 483.9 | 497.2 | 489.0 | 486.2 |
| 45°   | 1240.7 | 679.0  | 468.9 | 472.7 | 481.1 | 488.3 | 482.7 | 471.2 | 476.3 | 440.8 | 429.1 |
| 47.5° | 1312.6 | 695.3  | 457.2 | 452.3 | 466.9 | 480.4 | 471.7 | 454.4 | 436.3 | 401.1 | 394.4 |
| 50°   | 1396.7 | 720.5  | 446.5 | 432.2 | 451.3 | 469.7 | 461.0 | 436.3 | 409.0 | 391.9 | 389.6 |
| 52.5° | 1484.4 | 751.4  | 435.7 | 410.0 | 431.7 | 461.5 | 457.2 | 432.2 | 398.5 | 381.7 | 378.6 |
| 55°   | 1583.9 | 782.5  | 422.2 | 384.2 | 410.5 | 457.7 | 455.4 | 417.4 | 390.6 | 381.2 | 378.9 |
| 57.5° | 1707.5 | 817.9  | 404.4 | 357.5 | 390.6 | 443.9 | 436.8 | 408.5 | 382.5 | 375.3 | 374.6 |
| 60°   | 1868.7 | 870.2  | 378.6 | 328.9 | 366.4 | 422.7 | 421.2 | 395.5 | 369.5 | 364.4 | 363.3 |
| 62.5° | 2110.4 | 956.6  | 343.2 | 300.4 | 339.4 | 386.8 | 400.8 | 377.9 | 355.7 | 355.4 | 355.9 |
| 65°   | 2485.2 | 1086.7 | 304.7 | 275.4 | 312.1 | 356.4 | 377.1 | 359.8 | 341.7 | 346.8 | 347.5 |
| 67.5° | 2919.7 | 1194.5 | 267.0 | 250.9 | 284.3 | 327.6 | 355.7 | 341.7 | 323.0 | 336.3 | 336.6 |
| 70°   | 3064.2 | 1098.2 | 233.8 | 226.7 | 255.5 | 299.8 | 332.5 | 321.8 | 302.9 | 316.2 | 314.9 |
| 72°   | 2851.6 | 886.5  | 212.4 | 208.3 | 233.8 | 276.9 | 311.8 | 303.2 | 284.5 | 293.5 | 290.2 |
| 72.5° | 2784.5 | 845.2  | 207.0 | 203.7 | 227.9 | 271.0 | 306.5 | 298.6 | 280.0 | 287.6 | 284.5 |
| 75°   | 2483.9 | 734.1  | 178.0 | 178.7 | 198.9 | 242.5 | 276.4 | 273.8 | 254.7 | 255.5 | 254.5 |
| 77.5° | 1801.6 | 538.2  | 149.9 | 155.0 | 169.3 | 213.2 | 246.0 | 244.5 | 223.6 | 219.8 | 219.0 |
| 80°   | 836.0  | 274.6  | 122.1 | 124.4 | 139.2 | 178.2 | 209.8 | 207.8 | 191.0 | 186.1 | 183.3 |
| 82.5° | 286.3  | 130.5  | 91.8  | 93.3  | 107.9 | 143.5 | 182.0 | 180.8 | 166.8 | 157.3 | 151.5 |
| 85°   | 102.2  | 65.0   | 64.3  | 62.7  | 77.0  | 113.0 | 158.6 | 151.7 | 131.1 | 111.7 | 111.2 |
| 87.5° | 33.1   | 27.8   | 33.1  | 32.9  | 44.9  | 76.5  | 115.2 | 98.2  | 95.1  | 79.0  | 77.5  |
| 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)