

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: P385733

Luminaire Tested: GAW-SA1B-735-U-T4W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385733  
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-SA1B-735-U-T4W  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5692.7 lumens  
Efficiency: N/A  
Efficacy: 129.4 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

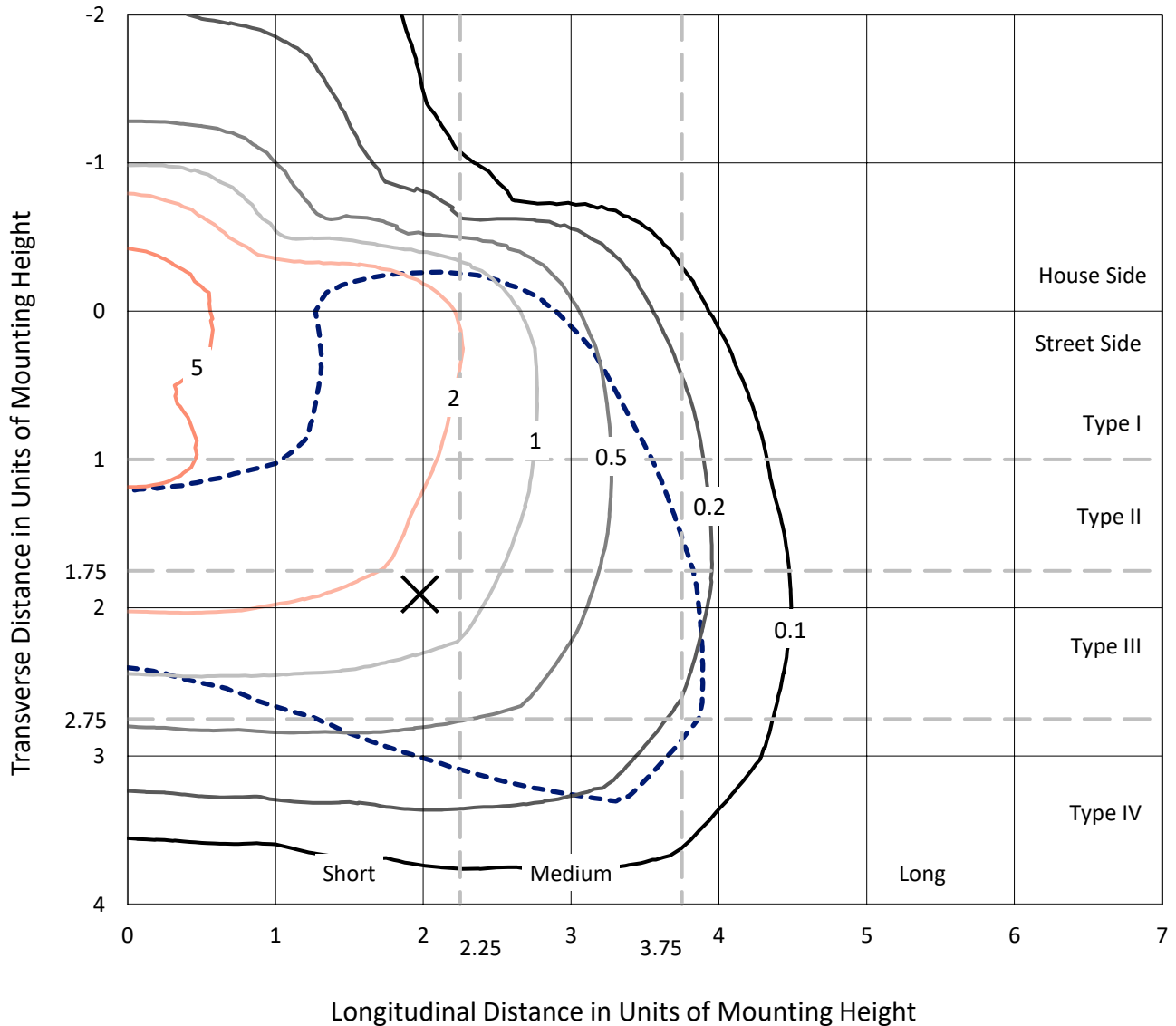
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

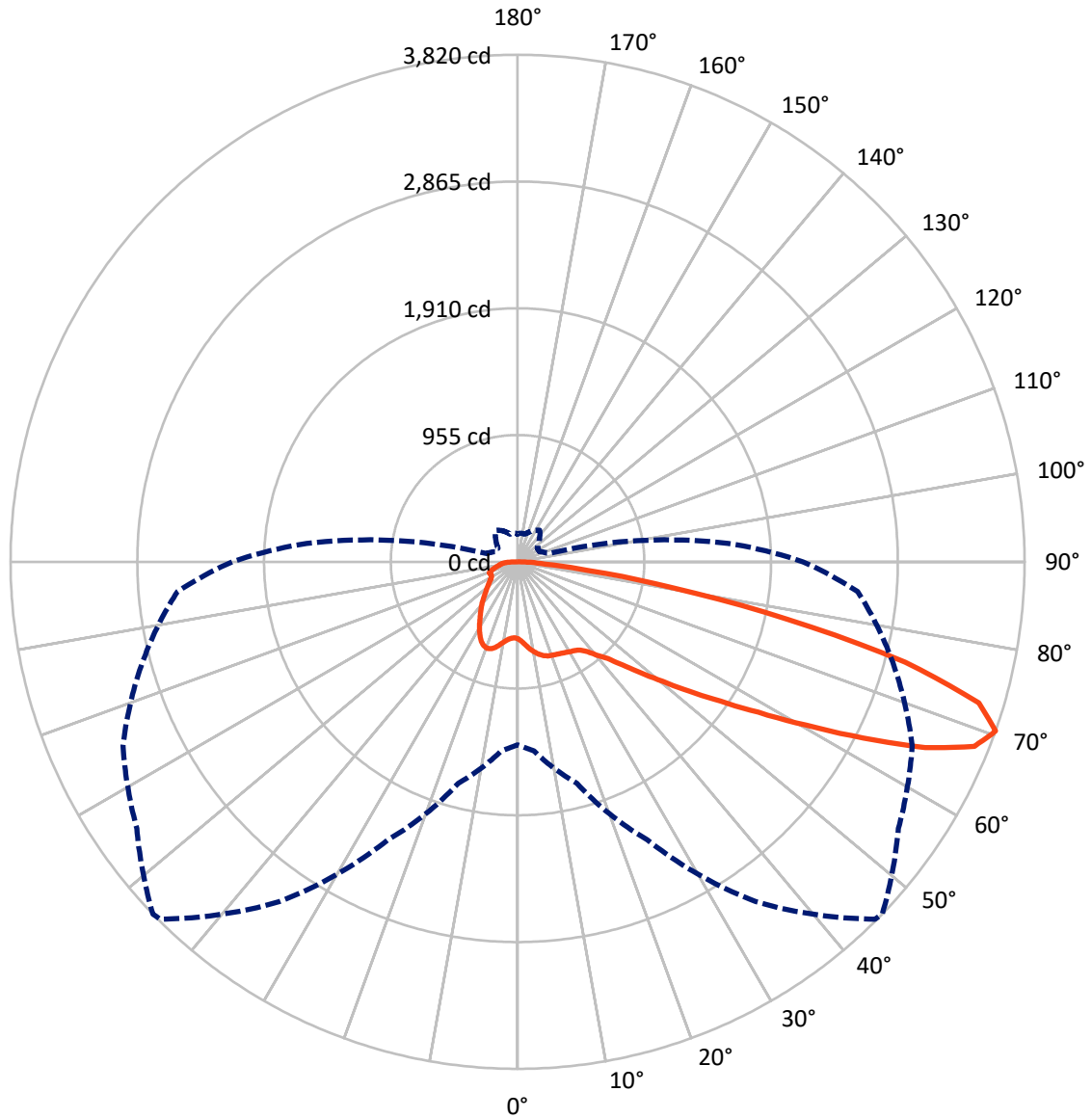
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 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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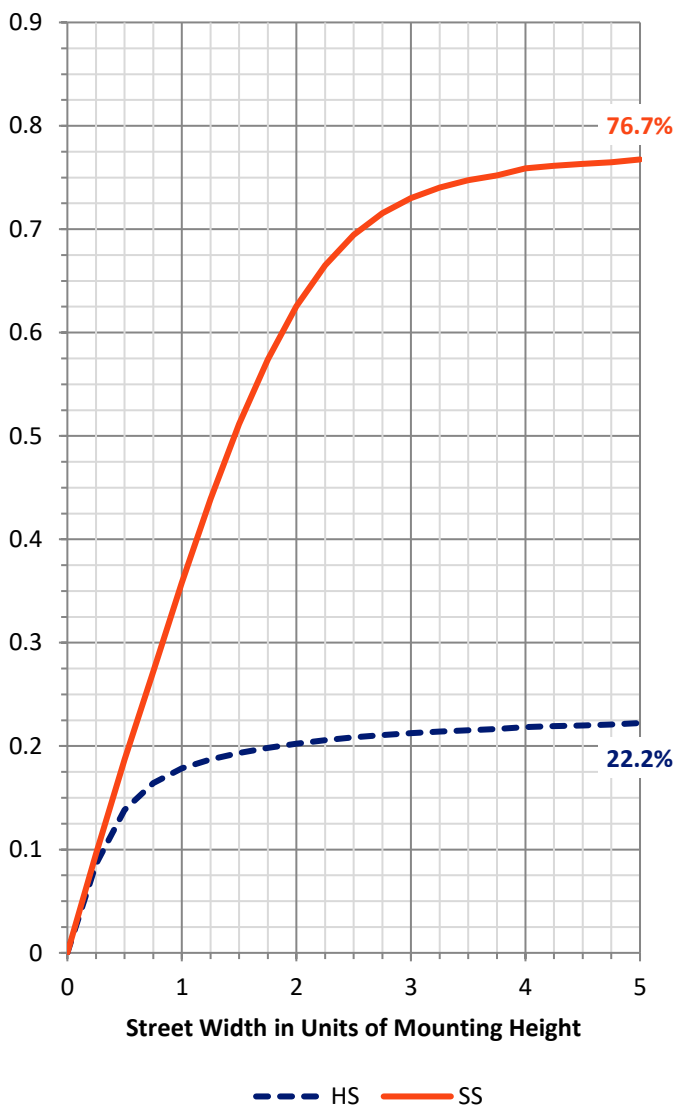
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1304.7   | 0.0    | 1304.7 |
|                    | % Fixture | 22.9     | 0.0    | 22.9   |
| <b>Street Side</b> | Lumens    | 4388.0   | 0.0    | 4388.0 |
|                    | % Fixture | 77.1     | 0.0    | 77.1   |
| <b>Total</b>       | Lumens    | 5692.7   | 0.0    | 5692.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.1   | 1.0       |
| 10°-20°   | 197.0  | 3.5       |
| 20°-30°   | 328.5  | 5.8       |
| 30°-40°   | 466.1  | 8.2       |
| 40°-50°   | 685.6  | 12.0      |
| 50°-60°   | 1161.1 | 20.4      |
| 60°-70°   | 1648.1 | 29.0      |
| 70°-80°   | 1001.2 | 17.6      |
| 80°-90°   | 146.1  | 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°    | 5692.7 | 100.0     |
| 0°-180°   | 5692.7 | 100.0     |

**Coefficient of Utilization**

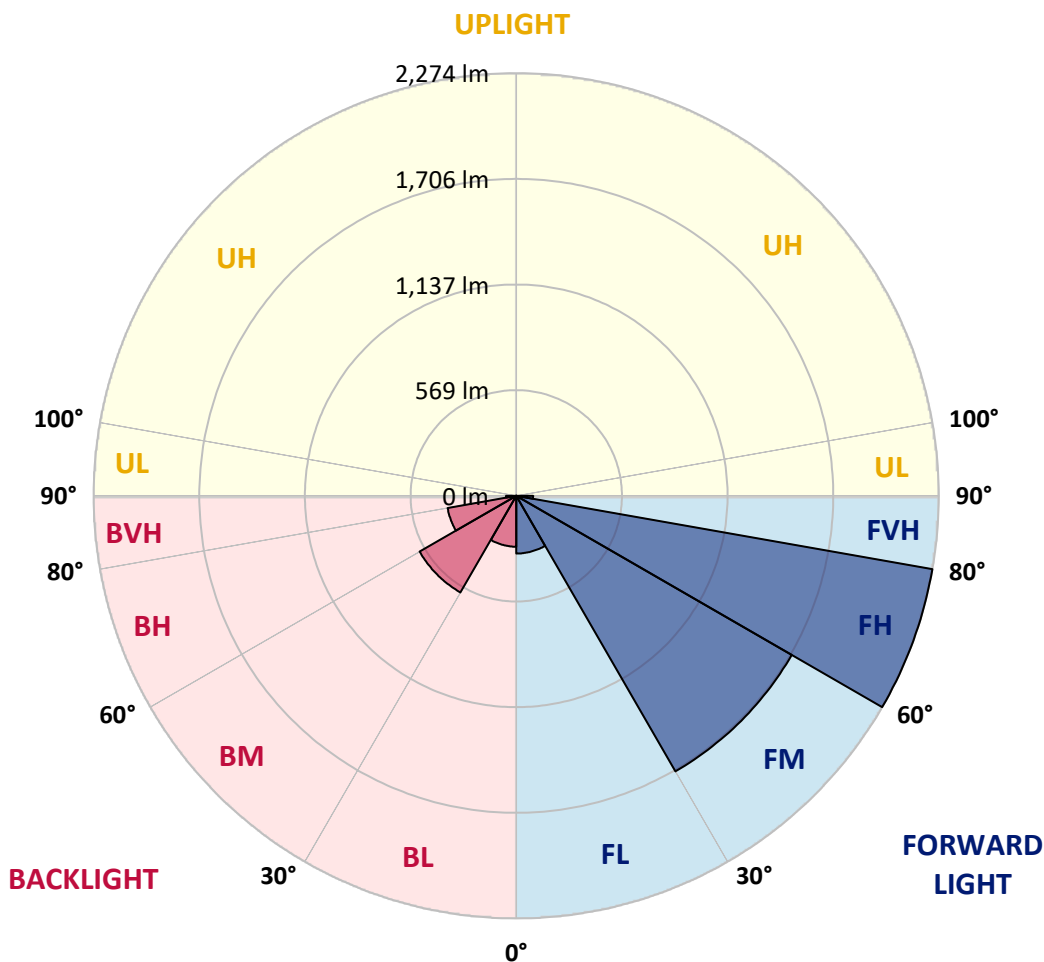


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 310.6  | 5.5       |                         |      |         |
| FM (30°-60°)   | 1712.1 | 30.1      |                         |      |         |
| FH (60°-80°)   | 2274.2 | 39.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 91.0   | 1.6       |                         |      | G1/100  |
| BL (0°-30°)    | 273.9  | 4.8       | B1/500                  |      |         |
| BM (30°-60°)   | 600.6  | 10.6      | B1/1000                 |      |         |
| BH (60°-80°)   | 375.1  | 6.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 55.1   | 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°    | 580.0  | 580.0  | 580.0  | 580.0  | 580.0  | 580.0  | 580.0  | 580.0  | 580.0  | 580.0  | 580.0  |
| 2.5°  | 609.0  | 609.4  | 610.1  | 608.3  | 602.8  | 601.2  | 600.6  | 595.0  | 591.3  | 585.8  | 581.1  |
| 5°    | 657.7  | 658.1  | 656.9  | 651.5  | 639.4  | 630.4  | 629.7  | 616.8  | 605.1  | 592.7  | 583.3  |
| 7.5°  | 708.6  | 709.1  | 705.5  | 695.2  | 678.1  | 662.6  | 661.6  | 644.0  | 626.4  | 607.4  | 593.4  |
| 10°   | 753.6  | 751.2  | 745.2  | 730.8  | 710.7  | 691.6  | 690.8  | 672.5  | 652.0  | 629.3  | 610.6  |
| 12.5° | 783.5  | 781.6  | 773.8  | 756.3  | 734.2  | 716.8  | 715.2  | 698.3  | 678.3  | 653.4  | 631.0  |
| 15°   | 800.1  | 801.5  | 791.0  | 771.1  | 749.6  | 734.9  | 733.5  | 721.5  | 703.7  | 678.5  | 652.9  |
| 17.5° | 802.2  | 803.5  | 793.3  | 773.6  | 756.1  | 746.0  | 745.4  | 737.4  | 724.6  | 700.4  | 673.5  |
| 20°   | 789.8  | 790.6  | 782.2  | 766.1  | 754.5  | 751.4  | 751.2  | 747.8  | 738.2  | 716.8  | 690.6  |
| 22.5° | 771.7  | 772.3  | 766.3  | 754.5  | 750.7  | 755.6  | 756.9  | 755.6  | 748.7  | 728.6  | 704.1  |
| 25°   | 767.2  | 766.8  | 760.5  | 748.7  | 752.0  | 762.3  | 764.1  | 764.7  | 760.0  | 742.5  | 721.3  |
| 27.5° | 788.8  | 787.5  | 775.6  | 756.5  | 758.7  | 771.1  | 773.4  | 779.0  | 776.1  | 760.8  | 740.7  |
| 30°   | 851.4  | 849.0  | 824.7  | 786.1  | 775.6  | 782.0  | 785.0  | 793.9  | 794.4  | 781.6  | 766.6  |
| 32.5° | 957.0  | 954.0  | 910.4  | 841.4  | 804.2  | 793.1  | 795.9  | 809.3  | 816.5  | 806.6  | 790.4  |
| 35°   | 1090.4 | 1087.1 | 1029.9 | 935.5  | 852.1  | 814.4  | 816.3  | 827.0  | 841.4  | 827.4  | 806.0  |
| 37.5° | 1229.5 | 1221.5 | 1166.4 | 1046.2 | 928.3  | 859.7  | 859.7  | 861.1  | 867.9  | 838.7  | 824.3  |
| 40°   | 1367.9 | 1359.9 | 1310.0 | 1176.3 | 1026.9 | 931.2  | 926.7  | 896.6  | 891.1  | 865.9  | 861.1  |
| 42.5° | 1496.5 | 1494.1 | 1464.6 | 1323.4 | 1142.6 | 1001.6 | 995.3  | 944.1  | 945.2  | 929.7  | 929.9  |
| 45°   | 1633.1 | 1633.1 | 1609.2 | 1471.8 | 1277.4 | 1114.6 | 1108.3 | 1033.0 | 1044.6 | 1037.4 | 1054.8 |
| 47.5° | 1744.8 | 1748.3 | 1745.0 | 1626.6 | 1434.3 | 1258.1 | 1246.9 | 1156.0 | 1188.8 | 1213.5 | 1264.0 |
| 50°   | 1858.8 | 1864.2 | 1864.8 | 1796.2 | 1623.8 | 1428.8 | 1415.9 | 1319.5 | 1392.6 | 1463.5 | 1562.7 |
| 52.5° | 2024.2 | 2036.4 | 1987.6 | 1965.5 | 1856.1 | 1631.4 | 1618.8 | 1529.7 | 1651.6 | 1751.2 | 1922.1 |
| 55°   | 2177.5 | 2166.8 | 2132.0 | 2145.6 | 2104.6 | 1862.1 | 1852.6 | 1774.4 | 1940.4 | 2069.8 | 2291.7 |
| 57.5° | 2260.5 | 2259.7 | 2294.8 | 2353.2 | 2372.7 | 2146.5 | 2138.5 | 2062.5 | 2265.9 | 2363.1 | 2638.7 |
| 60°   | 2357.9 | 2359.3 | 2446.2 | 2578.8 | 2659.0 | 2500.7 | 2497.2 | 2439.5 | 2582.1 | 2637.1 | 2910.8 |
| 62.5° | 2371.5 | 2396.1 | 2545.7 | 2774.0 | 2927.2 | 2914.5 | 2922.3 | 2779.1 | 2865.1 | 2855.7 | 3114.0 |
| 65°   | 2214.7 | 2247.0 | 2517.9 | 2833.0 | 3193.7 | 3367.1 | 3374.3 | 3120.6 | 3088.1 | 3042.5 | 3186.7 |
| 67.5° | 1893.3 | 1941.2 | 2235.4 | 2704.7 | 3281.6 | 3701.6 | 3711.7 | 3385.4 | 3273.1 | 3105.8 | 3011.7 |
| 70°   | 1377.8 | 1431.0 | 1727.1 | 2310.0 | 3124.9 | 3808.5 | 3820.0 | 3502.4 | 3280.2 | 2925.6 | 2571.0 |
| 72.5° | 832.3  | 873.9  | 1118.1 | 1700.6 | 2637.4 | 3613.7 | 3634.1 | 3354.0 | 2994.8 | 2478.1 | 1898.5 |
| 75°   | 365.5  | 392.8  | 540.6  | 980.0  | 1888.2 | 2989.9 | 3015.5 | 2870.9 | 2433.3 | 1800.9 | 1122.2 |
| 77.5° | 155.7  | 163.5  | 221.7  | 425.6  | 1067.4 | 2043.1 | 2078.1 | 2097.7 | 1650.9 | 980.0  | 474.2  |
| 80°   | 97.0   | 100.1  | 125.5  | 192.7  | 499.5  | 1147.5 | 1185.3 | 1234.2 | 819.8  | 360.3  | 165.6  |
| 82.5° | 59.0   | 62.6   | 83.4   | 116.5  | 260.1  | 520.1  | 538.3  | 572.7  | 318.2  | 155.7  | 85.8   |
| 85°   | 35.4   | 38.0   | 51.0   | 73.6   | 148.0  | 204.6  | 204.4  | 226.0  | 149.8  | 100.1  | 45.2   |
| 87.5° | 16.9   | 18.9   | 27.2   | 38.1   | 74.6   | 76.7   | 71.9   | 81.4   | 91.0   | 65.7   | 22.8   |
| 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°    | 580.0  | 580.0  | 580.0 | 580.0 | 580.0 | 580.0 | 580.0 | 580.0 | 580.0 | 580.0 | 580.0 |
| 2.5°  | 579.6  | 578.9  | 576.3 | 574.3 | 574.0 | 572.7 | 571.8 | 572.4 | 573.1 | 573.3 | 573.3 |
| 5°    | 579.4  | 577.3  | 574.0 | 572.6 | 574.3 | 576.7 | 579.6 | 583.5 | 585.8 | 587.6 | 588.7 |
| 7.5°  | 588.7  | 584.7  | 580.9 | 580.2 | 583.6 | 589.9 | 596.5 | 604.7 | 610.3 | 614.3 | 615.0 |
| 10°   | 604.3  | 599.2  | 595.6 | 596.3 | 602.6 | 611.5 | 620.8 | 631.4 | 640.0 | 645.3 | 645.6 |
| 12.5° | 622.3  | 617.4  | 613.9 | 617.2 | 627.5 | 638.4 | 648.2 | 657.3 | 665.1 | 670.4 | 670.4 |
| 15°   | 642.9  | 639.4  | 635.3 | 642.9 | 656.9 | 666.7 | 670.7 | 675.2 | 679.6 | 683.4 | 682.7 |
| 17.5° | 662.7  | 659.5  | 657.3 | 666.3 | 680.9 | 685.4 | 682.7 | 679.4 | 679.4 | 681.4 | 681.9 |
| 20°   | 679.9  | 677.0  | 678.3 | 687.2 | 694.7 | 690.1 | 679.9 | 669.4 | 665.1 | 666.3 | 667.4 |
| 22.5° | 695.0  | 693.6  | 697.7 | 701.7 | 696.3 | 679.9 | 661.2 | 647.0 | 641.7 | 641.3 | 641.7 |
| 25°   | 712.4  | 712.2  | 717.3 | 709.9 | 685.8 | 655.6 | 630.4 | 616.6 | 613.7 | 616.1 | 619.9 |
| 27.5° | 734.2  | 736.4  | 738.9 | 711.9 | 664.3 | 618.8 | 593.2 | 583.6 | 586.6 | 592.3 | 596.0 |
| 30°   | 762.1  | 768.0  | 762.5 | 707.0 | 633.5 | 576.7 | 552.3 | 549.5 | 557.5 | 565.5 | 569.5 |
| 32.5° | 789.2  | 798.4  | 785.1 | 694.3 | 593.8 | 532.1 | 513.2 | 512.3 | 522.1 | 529.9 | 535.4 |
| 35°   | 811.1  | 829.1  | 802.1 | 669.2 | 547.9 | 490.9 | 477.1 | 471.9 | 475.3 | 484.5 | 490.7 |
| 37.5° | 839.4  | 869.7  | 813.8 | 630.8 | 498.0 | 457.0 | 440.9 | 428.8 | 425.6 | 429.4 | 432.5 |
| 40°   | 891.5  | 931.4  | 819.2 | 577.3 | 449.2 | 423.1 | 406.8 | 389.1 | 376.8 | 367.8 | 368.1 |
| 42.5° | 976.4  | 1011.9 | 815.7 | 512.2 | 404.2 | 390.0 | 371.5 | 351.1 | 331.2 | 310.9 | 309.3 |
| 45°   | 1114.4 | 1131.5 | 805.2 | 443.2 | 364.7 | 355.4 | 338.0 | 317.5 | 291.0 | 268.1 | 265.9 |
| 47.5° | 1335.1 | 1297.1 | 788.8 | 383.0 | 329.8 | 326.0 | 310.0 | 286.4 | 258.3 | 239.8 | 238.2 |
| 50°   | 1636.0 | 1536.2 | 780.8 | 335.1 | 299.0 | 300.2 | 287.2 | 262.2 | 235.7 | 222.1 | 220.6 |
| 52.5° | 1996.1 | 1814.5 | 796.2 | 298.1 | 274.3 | 278.4 | 268.7 | 245.3 | 223.1 | 212.4 | 210.8 |
| 55°   | 2369.6 | 2102.9 | 812.8 | 271.2 | 250.9 | 258.9 | 255.6 | 236.4 | 216.2 | 206.3 | 205.0 |
| 57.5° | 2689.3 | 2318.1 | 779.7 | 249.4 | 230.1 | 242.6 | 245.5 | 230.6 | 212.8 | 203.8 | 202.3 |
| 60°   | 2890.5 | 2404.8 | 692.8 | 228.9 | 213.5 | 229.5 | 239.6 | 229.1 | 214.1 | 213.3 | 212.1 |
| 62.5° | 2986.0 | 2397.2 | 562.4 | 212.8 | 203.2 | 223.9 | 244.0 | 237.9 | 229.7 | 236.7 | 237.3 |
| 65°   | 2943.1 | 2282.7 | 418.9 | 202.1 | 195.8 | 226.0 | 256.7 | 254.4 | 234.2 | 241.1 | 242.2 |
| 67.5° | 2661.0 | 2009.4 | 310.2 | 192.7 | 187.6 | 232.0 | 280.1 | 259.9 | 225.4 | 230.4 | 227.3 |
| 70°   | 2150.8 | 1593.0 | 239.3 | 182.1 | 179.2 | 231.3 | 290.6 | 256.5 | 215.9 | 217.0 | 208.6 |
| 72.5° | 1483.1 | 1086.3 | 194.6 | 172.4 | 167.1 | 210.8 | 283.2 | 248.4 | 207.9 | 198.9 | 187.8 |
| 75°   | 806.6  | 583.1  | 165.4 | 162.3 | 145.9 | 185.1 | 269.6 | 242.6 | 200.7 | 188.8 | 182.5 |
| 77.5° | 317.3  | 242.0  | 143.5 | 148.4 | 127.6 | 163.5 | 254.4 | 231.5 | 190.7 | 175.1 | 172.0 |
| 80°   | 129.5  | 123.5  | 119.0 | 128.4 | 109.7 | 143.0 | 236.2 | 218.4 | 178.9 | 162.5 | 156.2 |
| 82.5° | 73.5   | 76.7   | 92.5  | 101.3 | 89.1  | 131.7 | 227.3 | 207.9 | 164.6 | 145.5 | 138.1 |
| 85°   | 37.6   | 45.0   | 64.4  | 72.7  | 65.5  | 112.0 | 209.4 | 182.0 | 132.1 | 111.4 | 112.0 |
| 87.5° | 18.1   | 25.2   | 40.7  | 45.6  | 42.5  | 81.1  | 156.4 | 131.9 | 102.9 | 81.4  | 78.9  |
| 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)