

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: P387183

Luminaire Tested: GAW-SA2D-830-U-T3

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P387183  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2D-830-U-T3  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12870 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

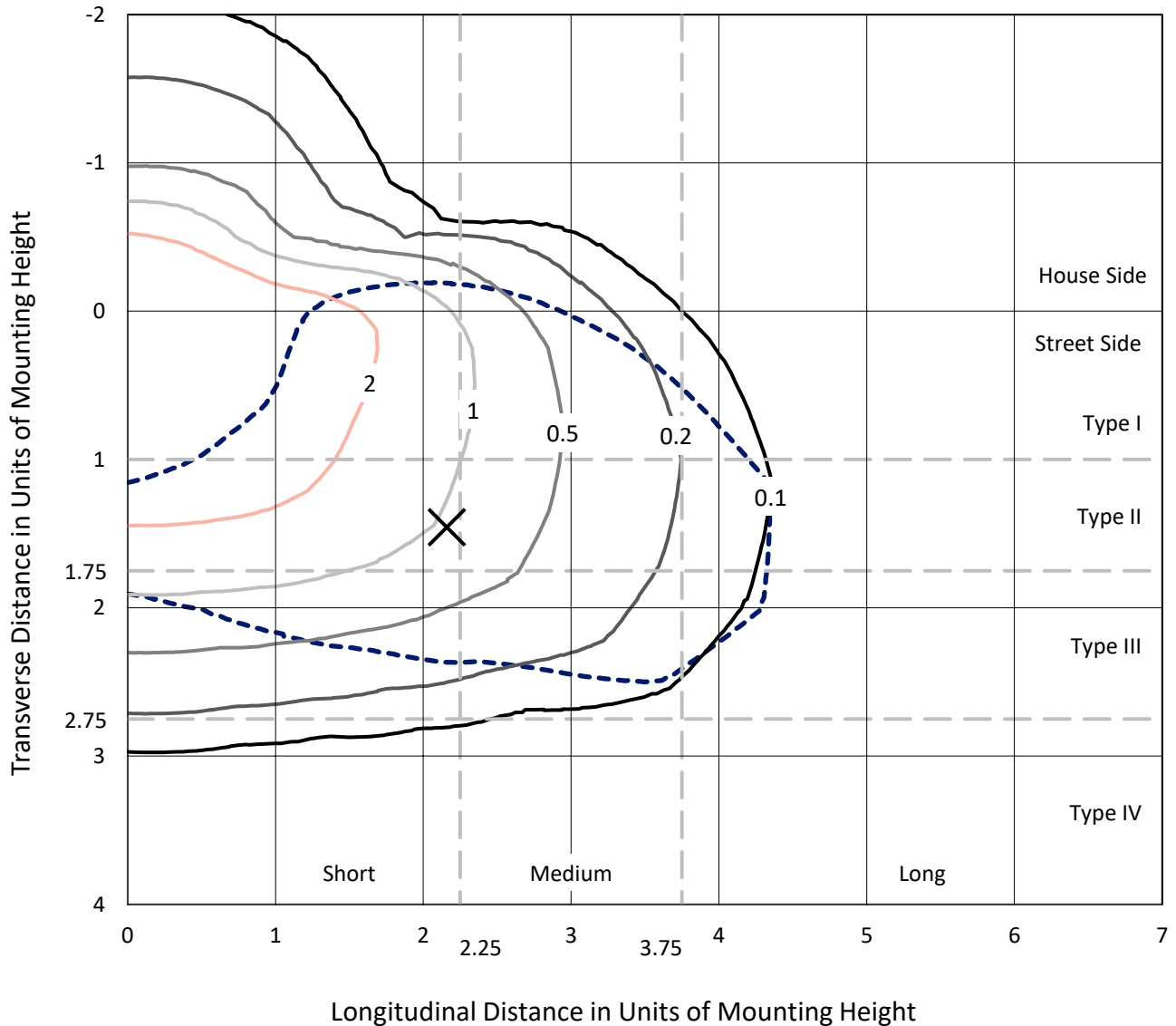
Input Watts (W): 128  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

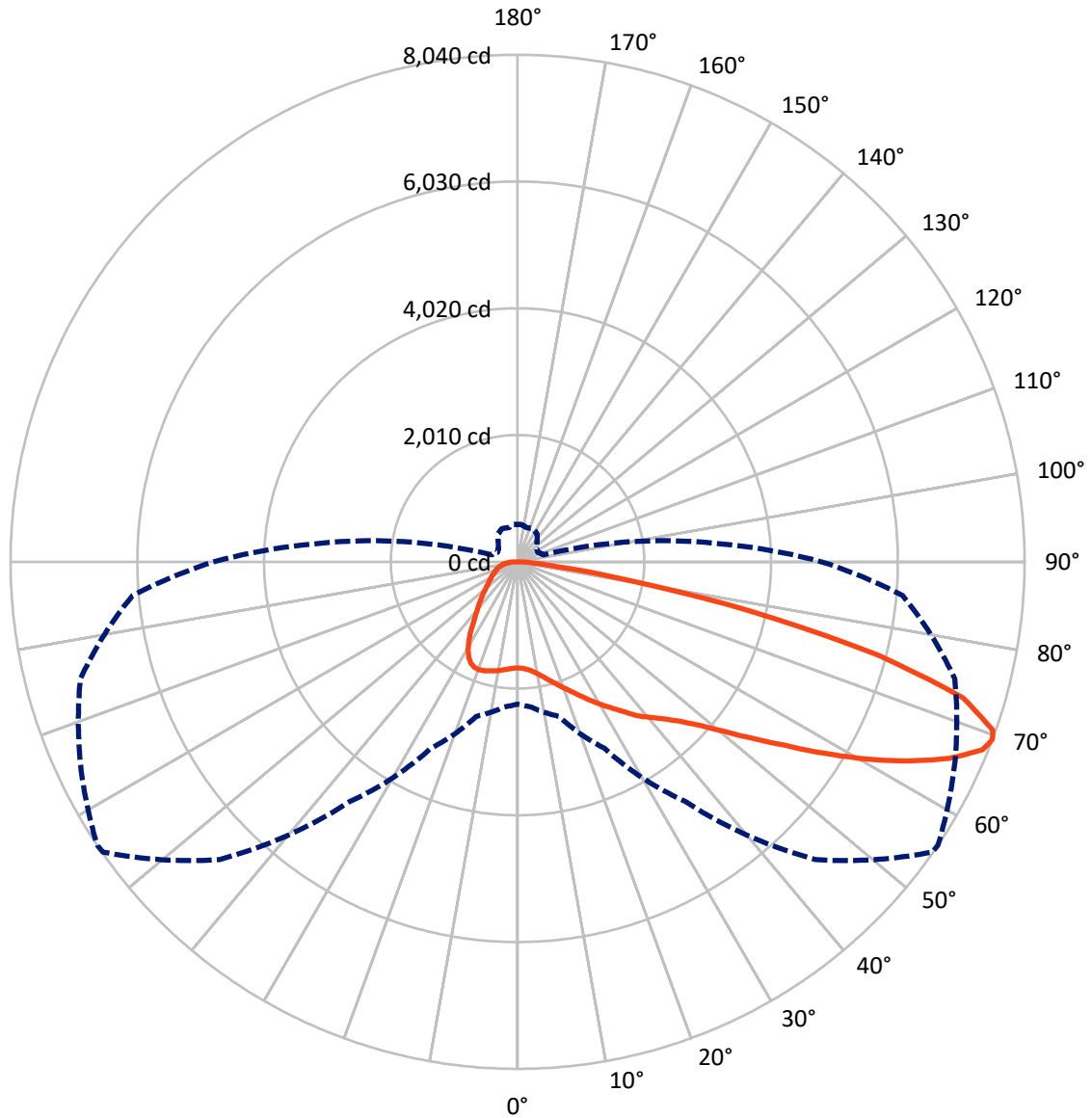
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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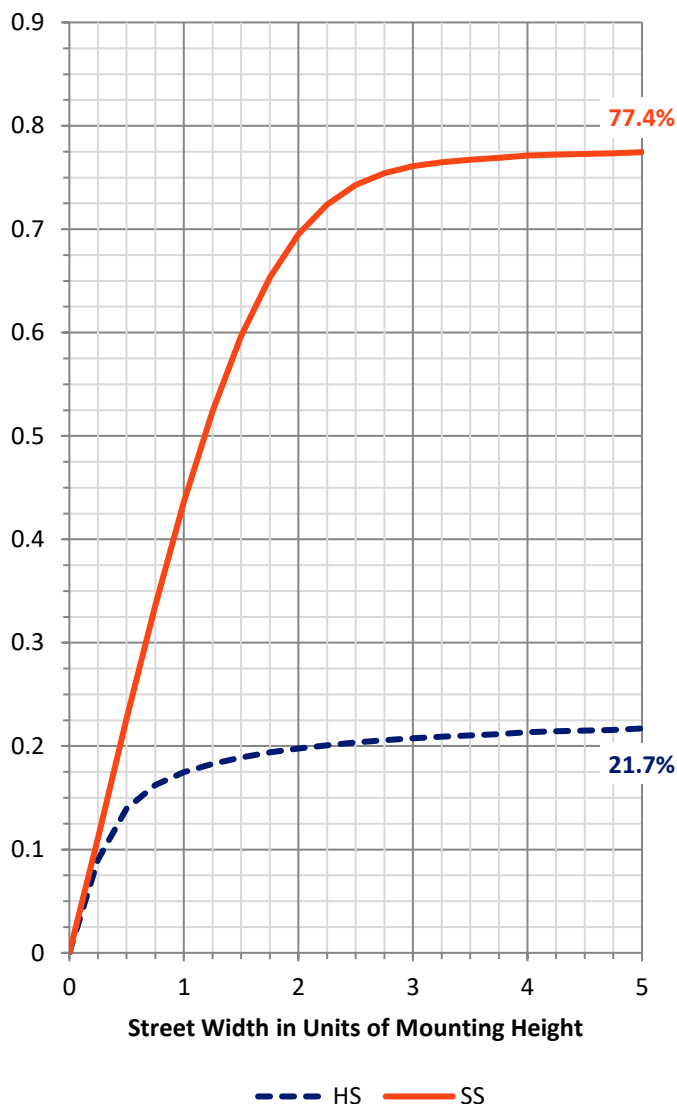
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2866.1   | 0.0    | 2866.1  |
|                    | % Fixture | 22.3     | 0.0    | 22.3    |
| <b>Street Side</b> | Lumens    | 10003.9  | 0.0    | 10003.9 |
|                    | % Fixture | 77.7     | 0.0    | 77.7    |
| <b>Total</b>       | Lumens    | 12870.0  | 0.0    | 12870.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 165.3   | 1.3       |
| 10°-20°   | 531.4   | 4.1       |
| 20°-30°   | 927.6   | 7.2       |
| 30°-40°   | 1332.5  | 10.4      |
| 40°-50°   | 1844.1  | 14.3      |
| 50°-60°   | 2701.8  | 21.0      |
| 60°-70°   | 3294.0  | 25.6      |
| 70°-80°   | 1821.1  | 14.2      |
| 80°-90°   | 252.2   | 2.0       |
| 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°    | 12870.0 | 100.0     |
| 0°-180°   | 12870.0 | 100.0     |

**Coefficient of Utilization**

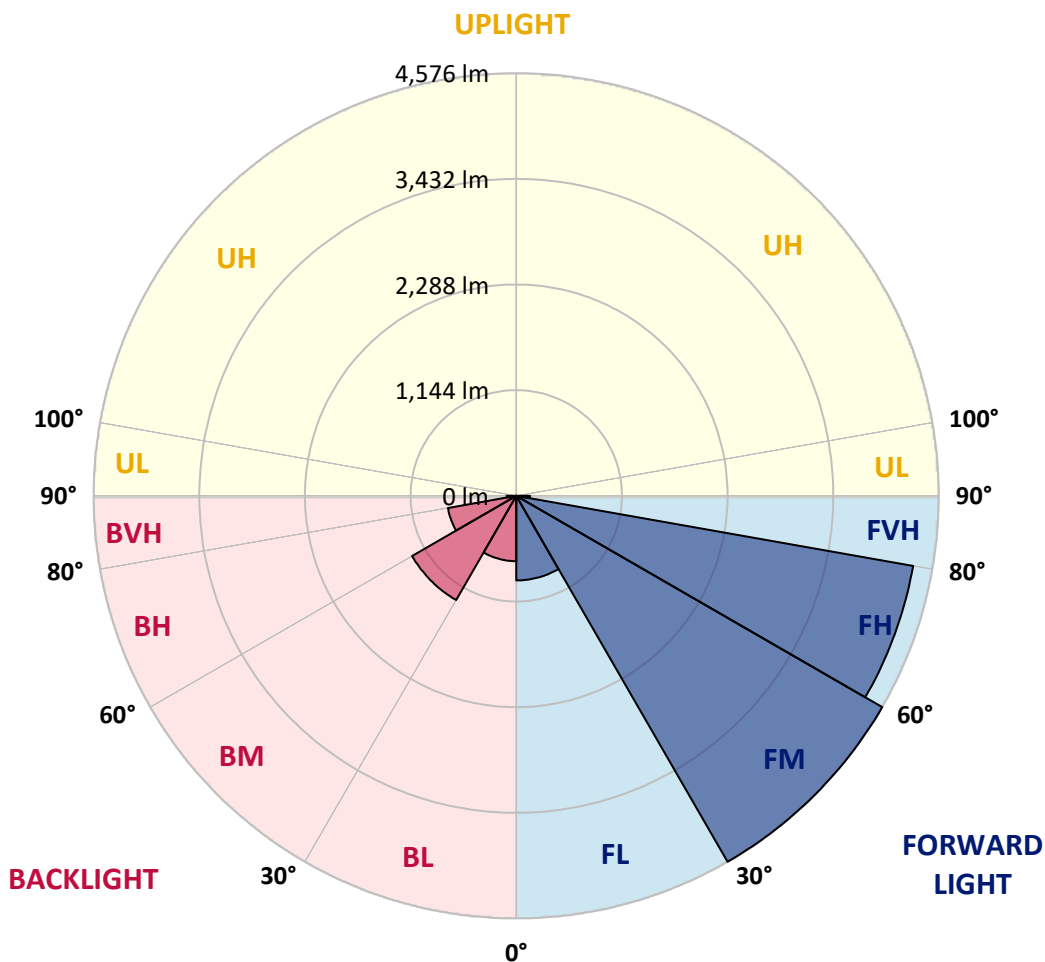


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 916.0  | 7.1       |                         |      |         |
| FM (30°-60°)   | 4575.8 | 35.6      |                         |      |         |
| FH (60°-80°)   | 4363.6 | 33.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 148.6  | 1.2       |                         |      | G2/225  |
| BL (0°-30°)    | 708.3  | 5.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 1302.6 | 10.1      | B2/2500                 |      |         |
| BH (60°-80°)   | 751.6  | 5.8       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 103.7  | 0.8       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1682.6 | 1682.6 | 1682.6 | 1682.6 | 1682.6 | 1682.6 | 1682.6 | 1682.6 | 1682.6 | 1682.6 | 1682.6 |
| 2.5°  | 1693.2 | 1695.0 | 1693.6 | 1697.2 | 1693.2 | 1695.9 | 1693.6 | 1693.6 | 1692.3 | 1688.3 | 1683.9 |
| 5°    | 1719.8 | 1723.3 | 1721.1 | 1724.7 | 1719.8 | 1720.7 | 1716.7 | 1716.7 | 1712.7 | 1704.3 | 1695.4 |
| 7.5°  | 1761.5 | 1765.5 | 1763.7 | 1767.2 | 1760.6 | 1760.6 | 1755.3 | 1754.8 | 1746.8 | 1733.1 | 1722.9 |
| 10°   | 1811.1 | 1816.5 | 1814.7 | 1820.0 | 1814.7 | 1816.5 | 1811.1 | 1811.1 | 1800.5 | 1781.0 | 1768.1 |
| 12.5° | 1883.4 | 1890.1 | 1885.2 | 1884.7 | 1882.5 | 1886.1 | 1881.6 | 1880.7 | 1871.0 | 1844.4 | 1826.7 |
| 15°   | 1980.1 | 1987.1 | 1977.0 | 1976.1 | 1963.7 | 1962.3 | 1962.3 | 1961.0 | 1954.8 | 1922.9 | 1893.6 |
| 17.5° | 2091.3 | 2093.6 | 2084.7 | 2070.5 | 2054.5 | 2044.3 | 2043.0 | 2046.6 | 2046.6 | 2009.3 | 1962.8 |
| 20°   | 2200.4 | 2204.4 | 2197.3 | 2181.3 | 2160.9 | 2145.9 | 2135.2 | 2142.3 | 2141.9 | 2097.5 | 2031.5 |
| 22.5° | 2319.2 | 2328.5 | 2317.9 | 2297.5 | 2273.6 | 2256.7 | 2238.1 | 2244.3 | 2244.7 | 2190.2 | 2098.9 |
| 25°   | 2473.1 | 2464.6 | 2458.0 | 2429.2 | 2395.0 | 2377.8 | 2360.5 | 2366.7 | 2364.9 | 2290.0 | 2168.5 |
| 27.5° | 2609.2 | 2611.0 | 2602.1 | 2571.5 | 2532.0 | 2493.9 | 2493.0 | 2497.0 | 2490.4 | 2393.7 | 2234.1 |
| 30°   | 2767.5 | 2768.4 | 2755.9 | 2728.4 | 2685.4 | 2636.2 | 2624.7 | 2631.4 | 2617.2 | 2492.1 | 2303.3 |
| 32.5° | 2924.9 | 2929.3 | 2915.5 | 2882.3 | 2847.7 | 2787.9 | 2764.8 | 2769.2 | 2733.8 | 2592.8 | 2374.6 |
| 35°   | 3062.7 | 3069.0 | 3064.5 | 3042.4 | 3004.7 | 2953.2 | 2925.7 | 2923.1 | 2879.2 | 2716.0 | 2469.1 |
| 37.5° | 3203.3 | 3209.1 | 3204.2 | 3185.6 | 3170.5 | 3115.9 | 3101.3 | 3101.3 | 3025.1 | 2842.0 | 2589.2 |
| 40°   | 3347.8 | 3356.7 | 3350.9 | 3325.2 | 3312.4 | 3287.5 | 3252.5 | 3244.1 | 3161.6 | 2993.1 | 2785.2 |
| 42.5° | 3482.2 | 3493.7 | 3516.7 | 3501.7 | 3475.5 | 3479.1 | 3408.6 | 3404.1 | 3343.8 | 3216.6 | 3031.3 |
| 45°   | 3672.8 | 3689.7 | 3728.7 | 3717.1 | 3711.8 | 3692.3 | 3608.5 | 3604.5 | 3581.5 | 3517.2 | 3336.7 |
| 47.5° | 3880.7 | 3903.8 | 3974.3 | 3976.5 | 4033.7 | 3996.9 | 3883.0 | 3869.2 | 3874.5 | 3877.2 | 3709.6 |
| 50°   | 4072.3 | 4097.6 | 4213.3 | 4267.8 | 4402.6 | 4410.6 | 4228.3 | 4215.9 | 4236.8 | 4298.0 | 4144.1 |
| 52.5° | 4225.2 | 4257.2 | 4401.7 | 4570.2 | 4801.2 | 4866.8 | 4653.5 | 4644.2 | 4659.7 | 4765.3 | 4635.3 |
| 55°   | 4337.4 | 4372.0 | 4529.4 | 4836.2 | 5205.1 | 5320.8 | 5143.0 | 5134.1 | 5143.9 | 5278.2 | 5169.6 |
| 57.5° | 4363.6 | 4372.0 | 4600.3 | 5015.3 | 5546.0 | 5824.0 | 5742.0 | 5724.2 | 5676.4 | 5793.4 | 5759.3 |
| 60°   | 4240.8 | 4274.5 | 4541.8 | 5078.3 | 5809.8 | 6320.1 | 6368.0 | 6345.8 | 6211.5 | 6307.3 | 6279.8 |
| 62.5° | 3991.6 | 4051.9 | 4323.2 | 4982.5 | 5913.1 | 6725.4 | 6982.1 | 6955.5 | 6724.0 | 6786.1 | 6654.0 |
| 65°   | 3584.6 | 3610.3 | 3895.4 | 4652.2 | 5781.9 | 6984.7 | 7529.6 | 7516.3 | 7225.0 | 7127.9 | 6723.1 |
| 67.5° | 2856.6 | 2904.9 | 3147.0 | 3961.9 | 5245.0 | 6954.1 | 7953.0 | 7951.7 | 7552.2 | 7254.7 | 6478.0 |
| 69°   | 2256.7 | 2306.8 | 2537.4 | 3263.6 | 4641.1 | 6674.4 | 8024.0 | 8039.5 | 7644.4 | 7177.6 | 6127.7 |
| 70°   | 1799.2 | 1857.2 | 2015.5 | 2748.8 | 4105.1 | 6305.5 | 7965.0 | 7992.9 | 7626.7 | 7050.3 | 5804.5 |
| 72.5° | 765.7  | 812.7  | 925.3  | 1417.0 | 2501.9 | 4708.5 | 7282.7 | 7388.2 | 7215.7 | 6452.7 | 4797.2 |
| 75°   | 334.3  | 348.9  | 399.9  | 577.7  | 1110.6 | 2562.6 | 5705.2 | 5900.3 | 6169.8 | 5454.2 | 3573.5 |
| 77.5° | 244.7  | 250.9  | 278.9  | 339.2  | 498.3  | 967.9  | 3668.8 | 3782.3 | 4449.6 | 3969.0 | 2192.0 |
| 80°   | 189.3  | 193.7  | 215.5  | 249.2  | 325.4  | 391.5  | 1673.2 | 1770.8 | 2501.9 | 2038.6 | 912.9  |
| 82.5° | 150.7  | 153.8  | 168.9  | 183.6  | 224.8  | 237.2  | 555.5  | 616.3  | 923.5  | 563.1  | 241.6  |
| 85°   | 140.1  | 143.6  | 149.0  | 133.9  | 144.1  | 139.2  | 240.3  | 251.4  | 278.9  | 221.2  | 101.1  |
| 87.5° | 63.4   | 74.9   | 147.6  | 104.2  | 76.7   | 61.2   | 98.4   | 102.9  | 115.7  | 116.2  | 44.8   |
| 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°    | 1682.6 | 1682.6 | 1682.6 | 1682.6 | 1682.6 | 1682.6 | 1682.6 | 1682.6 | 1682.6 | 1682.6 | 1682.6 |
| 2.5°  | 1686.5 | 1685.2 | 1687.4 | 1682.1 | 1688.8 | 1688.3 | 1686.1 | 1687.0 | 1691.4 | 1691.0 | 1691.4 |
| 5°    | 1696.7 | 1695.9 | 1698.5 | 1694.5 | 1702.5 | 1705.2 | 1705.6 | 1709.6 | 1714.5 | 1715.8 | 1715.8 |
| 7.5°  | 1722.5 | 1722.5 | 1723.8 | 1718.5 | 1723.8 | 1723.3 | 1721.1 | 1725.1 | 1730.0 | 1730.4 | 1730.0 |
| 10°   | 1766.8 | 1767.2 | 1765.0 | 1751.3 | 1746.8 | 1734.9 | 1723.8 | 1724.2 | 1730.4 | 1735.3 | 1736.6 |
| 12.5° | 1822.7 | 1820.9 | 1811.1 | 1785.9 | 1767.2 | 1742.9 | 1731.3 | 1730.9 | 1737.1 | 1741.1 | 1742.4 |
| 15°   | 1886.5 | 1881.6 | 1856.4 | 1815.1 | 1782.3 | 1758.4 | 1739.8 | 1735.3 | 1731.8 | 1727.3 | 1727.8 |
| 17.5° | 1946.8 | 1935.7 | 1893.6 | 1836.4 | 1801.8 | 1769.9 | 1734.0 | 1705.2 | 1685.2 | 1673.7 | 1670.1 |
| 20°   | 2008.0 | 1986.3 | 1925.5 | 1856.4 | 1812.5 | 1754.4 | 1685.2 | 1626.7 | 1590.3 | 1573.5 | 1570.4 |
| 22.5° | 2063.9 | 2028.8 | 1955.2 | 1877.2 | 1804.0 | 1702.1 | 1593.4 | 1508.3 | 1457.8 | 1435.2 | 1436.9 |
| 25°   | 2118.4 | 2069.6 | 1986.3 | 1891.8 | 1761.5 | 1609.8 | 1465.8 | 1361.1 | 1302.6 | 1277.3 | 1276.4 |
| 27.5° | 2166.3 | 2110.8 | 2020.0 | 1879.9 | 1682.1 | 1478.6 | 1314.6 | 1212.6 | 1163.8 | 1142.1 | 1138.6 |
| 30°   | 2221.2 | 2162.7 | 2064.7 | 1834.2 | 1566.0 | 1327.0 | 1166.9 | 1095.1 | 1060.5 | 1038.8 | 1034.8 |
| 32.5° | 2288.2 | 2233.2 | 2101.5 | 1751.3 | 1417.4 | 1168.7 | 1051.7 | 1001.6 | 970.1  | 945.7  | 941.3  |
| 35°   | 2385.7 | 2326.3 | 2110.8 | 1632.5 | 1254.3 | 1043.7 | 967.0  | 915.5  | 873.0  | 841.5  | 838.4  |
| 37.5° | 2508.1 | 2442.9 | 2089.6 | 1478.6 | 1096.0 | 962.5  | 896.5  | 833.1  | 777.7  | 733.3  | 726.2  |
| 40°   | 2684.6 | 2586.1 | 2030.6 | 1301.3 | 979.4  | 900.0  | 827.8  | 755.5  | 686.8  | 634.9  | 624.7  |
| 42.5° | 2896.5 | 2754.2 | 1940.2 | 1124.8 | 893.8  | 836.6  | 759.5  | 669.9  | 604.3  | 567.5  | 562.2  |
| 45°   | 3166.0 | 2928.8 | 1814.7 | 970.5  | 809.6  | 773.2  | 685.9  | 603.4  | 562.6  | 535.6  | 531.1  |
| 47.5° | 3473.7 | 3124.8 | 1683.0 | 845.0  | 738.2  | 713.8  | 626.9  | 573.7  | 541.3  | 520.1  | 516.1  |
| 50°   | 3851.9 | 3346.1 | 1543.3 | 742.2  | 666.4  | 642.4  | 599.0  | 557.3  | 531.6  | 515.2  | 511.2  |
| 52.5° | 4278.4 | 3595.7 | 1442.7 | 661.1  | 607.0  | 589.7  | 584.4  | 548.4  | 527.6  | 515.2  | 511.2  |
| 55°   | 4737.8 | 3849.7 | 1334.1 | 592.8  | 555.5  | 560.4  | 574.6  | 549.3  | 535.1  | 520.1  | 514.3  |
| 57.5° | 5197.5 | 4112.2 | 1213.0 | 535.1  | 514.7  | 538.7  | 567.9  | 551.1  | 539.1  | 524.5  | 519.2  |
| 60°   | 5561.1 | 4278.4 | 1025.5 | 486.8  | 482.4  | 514.7  | 552.0  | 537.8  | 522.3  | 522.7  | 521.8  |
| 62.5° | 5730.9 | 4269.6 | 818.4  | 443.8  | 450.0  | 482.4  | 526.3  | 517.0  | 504.1  | 521.4  | 522.7  |
| 65°   | 5635.6 | 4056.8 | 637.1  | 404.8  | 415.4  | 448.7  | 499.7  | 506.8  | 511.2  | 544.4  | 548.9  |
| 67.5° | 5235.7 | 3642.7 | 493.5  | 370.7  | 384.0  | 425.6  | 502.3  | 552.0  | 557.7  | 592.8  | 592.3  |
| 69°   | 4822.0 | 3254.3 | 428.7  | 352.9  | 368.4  | 431.4  | 536.9  | 580.8  | 559.1  | 596.3  | 591.0  |
| 70°   | 4475.3 | 2947.0 | 394.1  | 340.9  | 361.3  | 441.6  | 560.0  | 580.4  | 552.4  | 584.4  | 575.5  |
| 72.5° | 3446.7 | 2120.2 | 334.3  | 318.8  | 337.4  | 422.5  | 566.6  | 567.5  | 536.9  | 543.1  | 528.0  |
| 75°   | 2364.0 | 1339.8 | 291.7  | 288.6  | 301.0  | 380.8  | 545.3  | 542.2  | 496.6  | 487.7  | 475.3  |
| 77.5° | 1303.5 | 680.6  | 247.8  | 259.8  | 268.2  | 337.4  | 495.7  | 491.2  | 453.6  | 434.9  | 430.5  |
| 80°   | 502.8  | 297.9  | 209.3  | 231.0  | 236.3  | 292.2  | 434.5  | 430.5  | 399.0  | 375.1  | 368.4  |
| 82.5° | 189.8  | 156.1  | 172.9  | 200.0  | 198.2  | 241.2  | 368.0  | 365.8  | 335.2  | 300.2  | 289.5  |
| 85°   | 87.8   | 93.5   | 137.0  | 164.9  | 152.1  | 178.7  | 294.4  | 298.4  | 261.1  | 219.5  | 219.5  |
| 87.5° | 37.2   | 52.3   | 97.1   | 124.6  | 102.4  | 120.6  | 215.9  | 206.2  | 189.3  | 131.2  | 123.3  |
| 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)