

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: P385914

Luminaire Tested: GAW-SA1C-730-U-SLL-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385914  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1C-730-U-SLL-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5100 lumens  
Efficiency: N/A  
Efficacy: 86.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

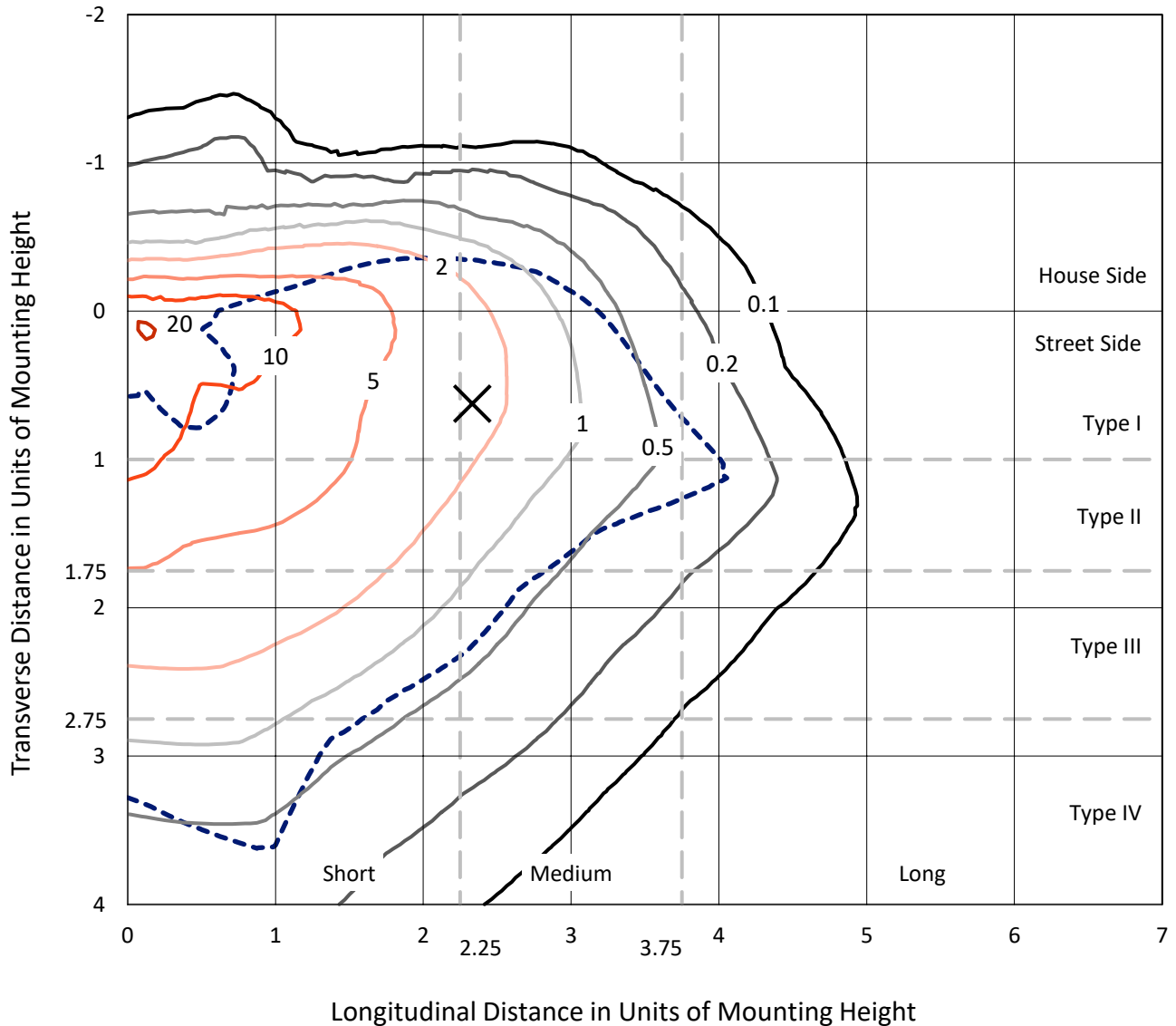
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

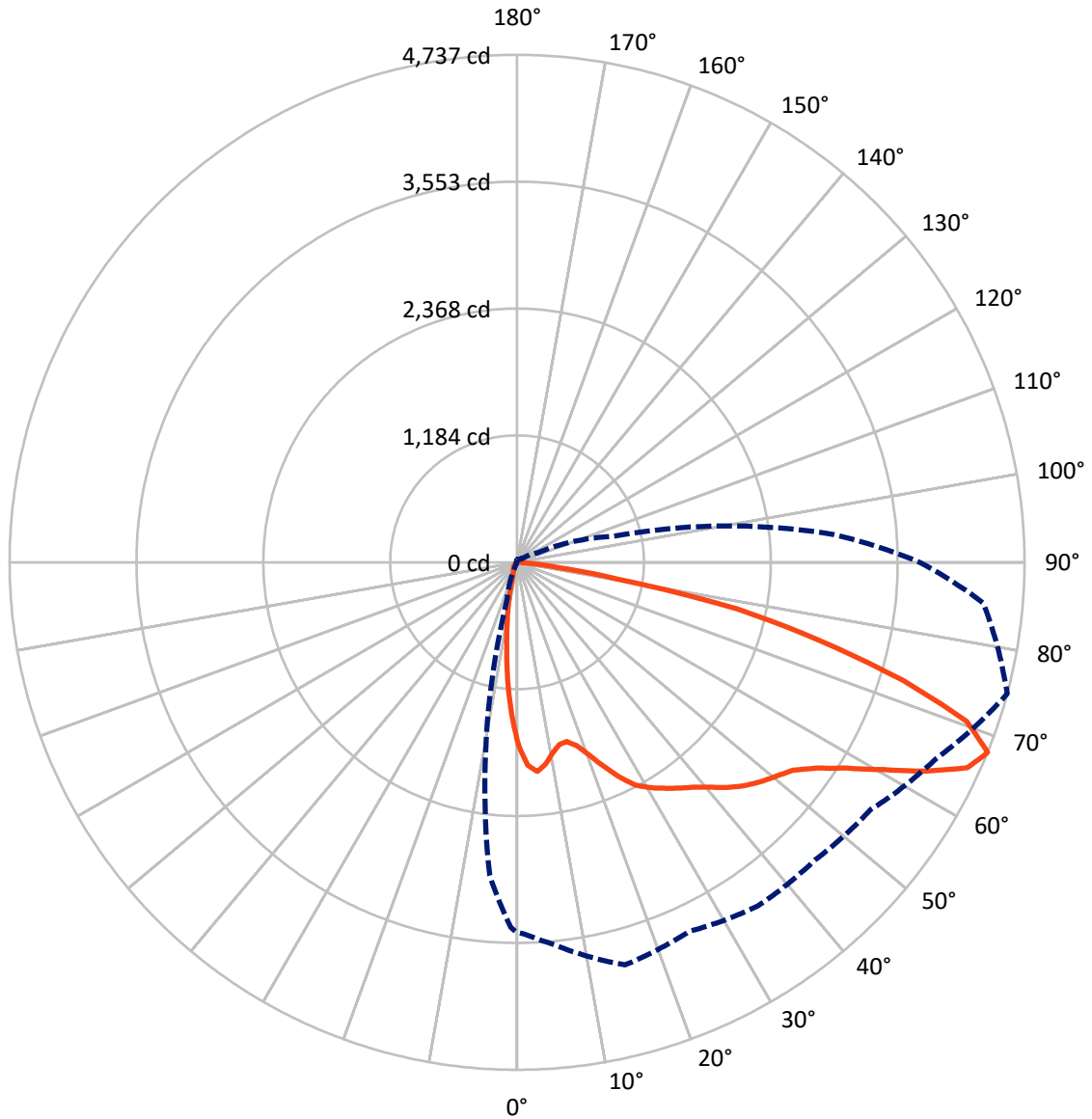
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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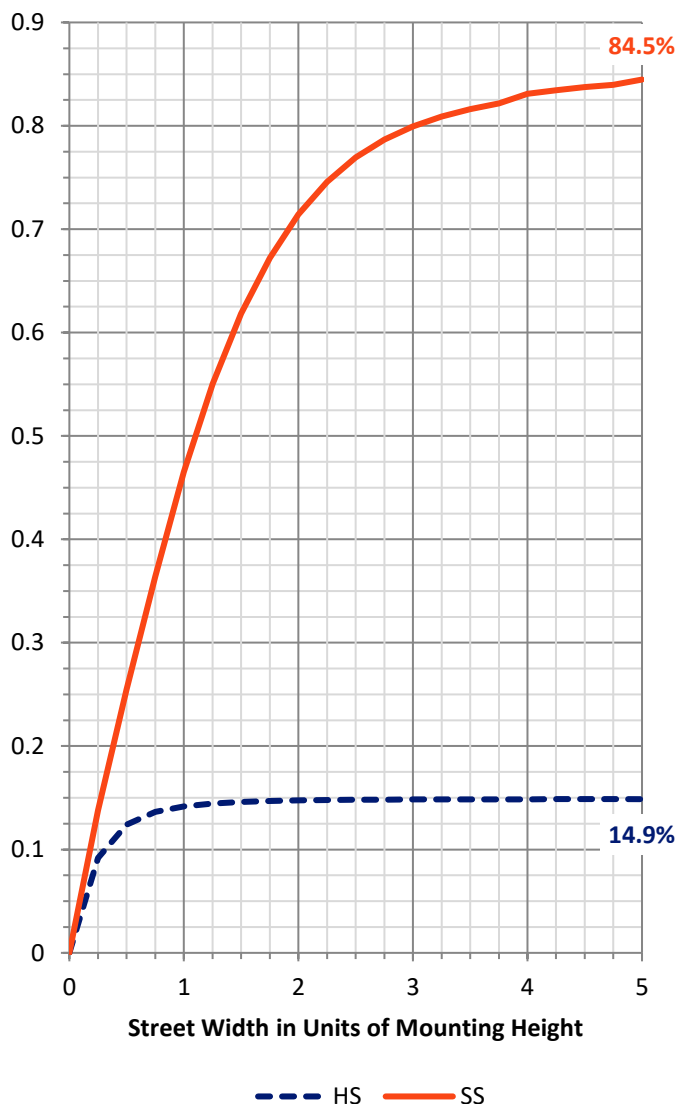
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 765.3    | 0.0    | 765.3  |
|                    | % Fixture | 15.0     | 0.0    | 15.0   |
| <b>Street Side</b> | Lumens    | 4334.7   | 0.0    | 4334.7 |
|                    | % Fixture | 85.0     | 0.0    | 85.0   |
| <b>Total</b>       | Lumens    | 5100.0   | 0.0    | 5100.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 129.8  | 2.5       |
| 10°-20°   | 255.5  | 5.0       |
| 20°-30°   | 361.5  | 7.1       |
| 30°-40°   | 531.5  | 10.4      |
| 40°-50°   | 764.0  | 15.0      |
| 50°-60°   | 1075.5 | 21.1      |
| 60°-70°   | 1256.1 | 24.6      |
| 70°-80°   | 640.8  | 12.6      |
| 80°-90°   | 85.1   | 1.7       |
| 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°    | 5100.0 | 100.0     |
| 0°-180°   | 5100.0 | 100.0     |

**Coefficient of Utilization**

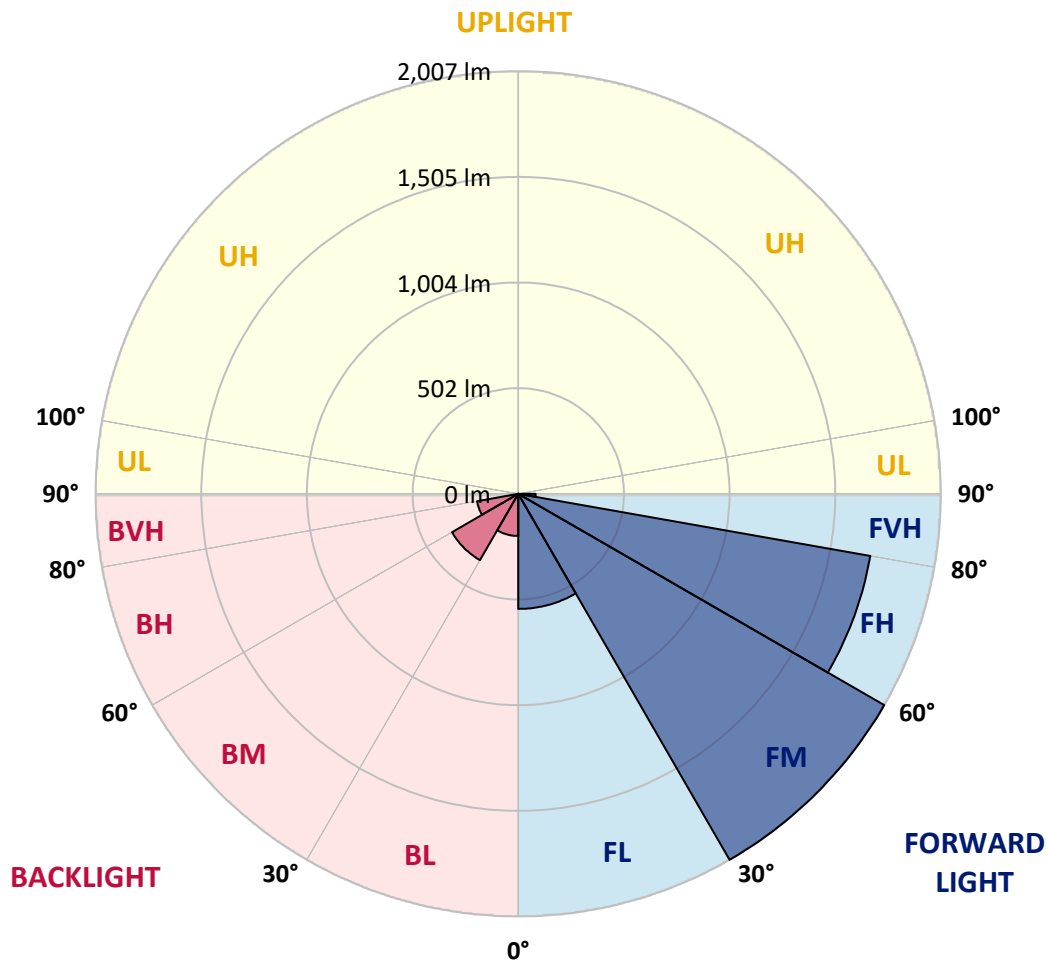


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 546.7  | 10.7      |                         |      |         |
| FM (30°-60°)   | 2007.3 | 39.4      |                         |      |         |
| FH (60°-80°)   | 1698.2 | 33.3      |                         |      | G1/1800 |
| FVH (80°-90°)  | 82.5   | 1.6       |                         |      | G1/100  |
| BL (0°-30°)    | 200.1  | 3.9       | B1/500                  |      |         |
| BM (30°-60°)   | 363.8  | 7.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 198.8  | 3.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.6    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 |
| 2.5°  | 1854.7 | 1857.6 | 1872.6 | 1907.4 | 1945.3 | 1948.2 | 1973.8 | 1947.5 | 1938.5 | 1896.0 | 1852.1 |
| 5°    | 1868.7 | 1879.8 | 1931.3 | 2033.5 | 2122.2 | 2150.7 | 2171.0 | 2119.3 | 2064.9 | 1961.0 | 1850.1 |
| 7.5°  | 1755.9 | 1774.5 | 1855.4 | 2047.3 | 2205.7 | 2275.8 | 2289.1 | 2208.2 | 2075.0 | 1904.0 | 1737.3 |
| 10°   | 1611.4 | 1632.7 | 1730.3 | 1966.1 | 2183.8 | 2303.8 | 2322.2 | 2216.1 | 2024.8 | 1811.7 | 1615.3 |
| 12.5° | 1494.5 | 1519.4 | 1619.2 | 1874.8 | 2108.1 | 2241.0 | 2277.3 | 2189.3 | 1981.3 | 1746.2 | 1531.9 |
| 15°   | 1440.6 | 1469.1 | 1574.0 | 1815.8 | 2024.3 | 2128.9 | 2158.9 | 2120.9 | 1957.1 | 1735.8 | 1512.6 |
| 17.5° | 1471.5 | 1502.5 | 1610.7 | 1820.9 | 1945.5 | 1990.2 | 2014.4 | 2029.9 | 1957.1 | 1798.4 | 1569.1 |
| 20°   | 1598.4 | 1631.7 | 1746.2 | 1872.3 | 1880.3 | 1863.6 | 1889.5 | 1943.9 | 1979.9 | 1917.3 | 1704.9 |
| 22.5° | 1773.8 | 1812.9 | 1942.2 | 1960.5 | 1848.4 | 1785.4 | 1788.8 | 1874.0 | 2021.2 | 2068.0 | 1893.4 |
| 25°   | 1987.6 | 2035.4 | 2166.8 | 2092.0 | 1861.7 | 1738.7 | 1737.5 | 1816.5 | 2061.5 | 2219.0 | 2103.3 |
| 27.5° | 2199.9 | 2252.6 | 2368.1 | 2252.4 | 1916.6 | 1730.3 | 1727.9 | 1799.1 | 2100.9 | 2353.4 | 2332.6 |
| 30°   | 2378.0 | 2429.2 | 2528.8 | 2368.6 | 1975.7 | 1750.1 | 1738.5 | 1817.7 | 2124.3 | 2440.6 | 2499.8 |
| 32.5° | 2523.0 | 2564.0 | 2644.5 | 2448.5 | 2039.0 | 1788.5 | 1763.4 | 1867.5 | 2164.2 | 2514.3 | 2653.4 |
| 35°   | 2682.4 | 2725.7 | 2757.8 | 2524.6 | 2110.1 | 1843.8 | 1807.8 | 1946.5 | 2225.6 | 2589.2 | 2821.8 |
| 37.5° | 2864.3 | 2907.3 | 2903.5 | 2594.2 | 2200.2 | 1935.4 | 1912.5 | 2071.7 | 2321.0 | 2663.3 | 3009.8 |
| 40°   | 3042.4 | 3086.4 | 3054.9 | 2670.3 | 2306.0 | 2086.4 | 2069.5 | 2259.6 | 2448.8 | 2758.3 | 3230.1 |
| 42.5° | 3209.1 | 3256.7 | 3189.5 | 2742.3 | 2432.1 | 2276.8 | 2305.8 | 2501.7 | 2608.7 | 2875.2 | 3420.0 |
| 45°   | 3343.4 | 3392.0 | 3302.3 | 2812.4 | 2565.0 | 2507.7 | 2595.0 | 2769.9 | 2801.0 | 2974.0 | 3548.3 |
| 47.5° | 3441.0 | 3486.9 | 3380.6 | 2882.4 | 2735.1 | 2790.2 | 2942.1 | 3051.1 | 2974.7 | 3059.8 | 3639.4 |
| 50°   | 3503.3 | 3539.1 | 3403.6 | 2970.1 | 2958.3 | 3119.7 | 3303.8 | 3356.9 | 3138.3 | 3137.1 | 3750.0 |
| 52.5° | 3543.0 | 3559.2 | 3420.5 | 3061.7 | 3191.2 | 3478.5 | 3658.0 | 3674.6 | 3306.7 | 3222.1 | 3899.1 |
| 55°   | 3679.5 | 3692.5 | 3540.3 | 3172.6 | 3383.8 | 3792.8 | 3978.3 | 3962.9 | 3497.3 | 3388.6 | 4075.0 |
| 57.5° | 3912.4 | 3926.1 | 3787.9 | 3332.1 | 3539.6 | 3987.0 | 4210.5 | 4238.3 | 3720.8 | 3622.4 | 4263.4 |
| 60°   | 4029.3 | 4054.9 | 4005.6 | 3534.0 | 3690.6 | 4111.2 | 4368.7 | 4457.4 | 4000.1 | 3930.7 | 4446.0 |
| 62.5° | 3923.2 | 3960.4 | 4031.9 | 3758.0 | 3840.6 | 4179.6 | 4418.0 | 4535.9 | 4286.1 | 4290.0 | 4558.6 |
| 65°   | 3711.6 | 3741.3 | 3862.6 | 3880.7 | 3927.6 | 4171.1 | 4296.3 | 4426.2 | 4461.3 | 4620.0 | 4552.6 |
| 67.5° | 3456.0 | 3467.1 | 3570.0 | 3890.4 | 3801.5 | 3916.9 | 3930.5 | 4026.6 | 4322.8 | 4736.9 | 4369.7 |
| 70°   | 3088.0 | 3094.1 | 3184.0 | 3566.9 | 3266.8 | 3292.2 | 3272.1 | 3291.7 | 3716.4 | 4452.1 | 3908.0 |
| 72.5° | 2485.3 | 2500.5 | 2628.3 | 2962.2 | 2379.9 | 2306.7 | 2464.3 | 2455.6 | 2862.2 | 3761.4 | 2902.5 |
| 75°   | 1829.8 | 1856.2 | 2049.2 | 2386.0 | 1670.4 | 1510.9 | 1625.9 | 1656.6 | 2034.7 | 2909.5 | 1815.1 |
| 77.5° | 1281.2 | 1300.7 | 1487.7 | 1754.0 | 1208.9 | 1080.4 | 1038.9 | 1075.3 | 1343.0 | 2104.8 | 914.4  |
| 80°   | 738.1  | 745.3  | 864.7  | 1012.8 | 814.7  | 932.1  | 844.4  | 869.5  | 804.7  | 936.4  | 393.3  |
| 82.5° | 482.9  | 484.2  | 530.8  | 602.8  | 507.3  | 589.5  | 436.3  | 557.8  | 495.0  | 376.2  | 128.0  |
| 85°   | 260.9  | 262.4  | 307.8  | 427.9  | 287.3  | 162.4  | 95.4   | 195.9  | 306.1  | 86.2   | 35.0   |
| 87.5° | 28.7   | 26.3   | 92.8   | 155.6  | 79.7   | 14.7   | 5.1    | 22.0   | 49.0   | 5.6    | 0.0    |
| 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°    | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 |
| 2.5°  | 1829.6 | 1809.5 | 1759.5 | 1706.6 | 1664.1 | 1624.2 | 1584.1 | 1535.1 | 1497.2 | 1489.4 | 1476.9 |
| 5°    | 1790.4 | 1726.9 | 1622.1 | 1516.7 | 1431.9 | 1324.9 | 1257.0 | 1204.1 | 1152.4 | 1149.3 | 1138.9 |
| 7.5°  | 1653.7 | 1570.1 | 1422.5 | 1276.8 | 1157.5 | 1055.5 | 952.6  | 883.7  | 829.6  | 810.5  | 799.2  |
| 10°   | 1522.3 | 1428.3 | 1244.0 | 1077.7 | 971.2  | 881.1  | 808.6  | 736.6  | 671.4  | 626.5  | 606.2  |
| 12.5° | 1430.5 | 1326.6 | 1123.4 | 980.1  | 903.8  | 818.3  | 729.9  | 640.0  | 564.8  | 510.7  | 477.6  |
| 15°   | 1395.0 | 1284.1 | 1083.1 | 941.5  | 847.3  | 739.0  | 626.0  | 523.3  | 439.9  | 390.9  | 361.2  |
| 17.5° | 1437.2 | 1308.2 | 1079.9 | 894.4  | 762.7  | 628.1  | 503.2  | 382.0  | 303.4  | 266.2  | 247.1  |
| 20°   | 1544.5 | 1385.1 | 1078.7 | 836.6  | 662.2  | 496.7  | 340.9  | 251.3  | 203.7  | 182.9  | 173.9  |
| 22.5° | 1696.2 | 1483.1 | 1088.4 | 779.6  | 557.6  | 354.9  | 235.3  | 184.6  | 160.2  | 149.1  | 144.0  |
| 25°   | 1891.4 | 1620.8 | 1115.7 | 727.9  | 459.3  | 264.8  | 183.4  | 154.6  | 137.5  | 128.8  | 125.1  |
| 27.5° | 2099.4 | 1779.3 | 1158.2 | 683.0  | 379.3  | 211.2  | 157.0  | 132.4  | 120.1  | 114.0  | 110.6  |
| 30°   | 2271.0 | 1962.9 | 1201.2 | 633.0  | 321.3  | 184.1  | 143.7  | 120.8  | 106.5  | 102.7  | 99.5   |
| 32.5° | 2421.0 | 2101.9 | 1231.6 | 587.8  | 283.4  | 163.6  | 130.0  | 108.0  | 98.3   | 90.8   | 87.5   |
| 35°   | 2576.3 | 2217.6 | 1230.7 | 556.1  | 257.3  | 148.1  | 118.4  | 96.6   | 85.0   | 76.3   | 73.7   |
| 37.5° | 2744.5 | 2348.3 | 1209.7 | 529.1  | 245.9  | 135.8  | 111.9  | 90.6   | 79.0   | 70.3   | 66.9   |
| 40°   | 2941.4 | 2485.5 | 1188.2 | 503.7  | 242.8  | 125.9  | 107.3  | 85.8   | 73.4   | 65.0   | 61.6   |
| 42.5° | 3133.2 | 2609.2 | 1169.3 | 484.9  | 229.3  | 125.6  | 103.2  | 82.1   | 69.1   | 60.9   | 57.0   |
| 45°   | 3286.6 | 2724.4 | 1165.7 | 473.5  | 215.0  | 130.0  | 101.0  | 79.7   | 65.7   | 57.5   | 53.9   |
| 47.5° | 3414.2 | 2849.6 | 1188.9 | 465.6  | 201.5  | 118.6  | 106.3  | 78.0   | 62.6   | 54.6   | 50.5   |
| 50°   | 3565.9 | 3003.2 | 1243.5 | 452.5  | 187.2  | 106.8  | 121.8  | 78.5   | 59.9   | 51.7   | 47.4   |
| 52.5° | 3777.6 | 3215.8 | 1323.7 | 430.5  | 167.7  | 95.9   | 119.8  | 79.0   | 57.0   | 48.6   | 44.2   |
| 55°   | 4014.8 | 3481.4 | 1409.9 | 394.0  | 140.4  | 81.7   | 102.7  | 75.6   | 51.5   | 45.2   | 41.1   |
| 57.5° | 4264.1 | 3722.2 | 1461.2 | 350.6  | 111.6  | 70.5   | 82.1   | 68.9   | 45.4   | 40.6   | 37.9   |
| 60°   | 4303.3 | 3813.8 | 1437.7 | 297.2  | 88.7   | 61.4   | 60.9   | 70.1   | 40.6   | 35.8   | 33.8   |
| 62.5° | 4205.9 | 3698.8 | 1324.4 | 249.6  | 74.2   | 53.9   | 50.0   | 61.1   | 36.7   | 31.9   | 30.0   |
| 65°   | 4018.7 | 3387.9 | 1140.8 | 224.9  | 68.9   | 46.1   | 41.6   | 43.0   | 32.1   | 27.8   | 26.1   |
| 67.5° | 3758.2 | 2972.8 | 936.7  | 210.9  | 68.1   | 39.6   | 35.5   | 32.6   | 27.8   | 24.2   | 22.7   |
| 70°   | 3225.8 | 2476.6 | 747.2  | 203.2  | 66.2   | 33.3   | 30.0   | 26.6   | 23.2   | 20.5   | 19.3   |
| 72.5° | 2374.1 | 1754.9 | 581.3  | 194.7  | 66.7   | 26.6   | 26.1   | 22.0   | 18.6   | 15.9   | 15.5   |
| 75°   | 1371.8 | 1002.6 | 381.2  | 157.8  | 63.5   | 20.5   | 21.7   | 15.5   | 13.0   | 11.1   | 11.1   |
| 77.5° | 731.1  | 611.5  | 145.2  | 65.7   | 23.2   | 13.0   | 12.3   | 9.2    | 8.2    | 6.8    | 6.5    |
| 80°   | 318.7  | 269.1  | 43.7   | 18.4   | 12.8   | 7.0    | 4.6    | 4.1    | 3.6    | 2.9    | 2.7    |
| 82.5° | 112.8  | 97.4   | 14.3   | 8.9    | 5.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 25.6   | 18.4   | 0.0    | 2.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 |
| 2.5°  | 1451.3 | 1445.9 | 1414.5 | 1415.7 | 1421.3 | 1429.3 | 1410.4 | 1419.1 | 1442.6 | 1465.0 | 1473.5 |
| 5°    | 1122.2 | 1123.4 | 1104.3 | 1116.2 | 1126.8 | 1134.0 | 1103.6 | 1104.1 | 1122.7 | 1148.1 | 1161.3 |
| 7.5°  | 790.7  | 788.8  | 789.8  | 818.0  | 838.1  | 823.6  | 834.9  | 795.6  | 798.0  | 816.1  | 802.6  |
| 10°   | 587.8  | 561.2  | 546.2  | 567.5  | 589.5  | 581.5  | 561.9  | 549.1  | 558.1  | 578.1  | 576.7  |
| 12.5° | 461.9  | 423.8  | 401.3  | 386.1  | 404.2  | 389.2  | 388.7  | 377.6  | 365.5  | 367.7  | 399.8  |
| 15°   | 347.4  | 319.6  | 293.1  | 268.7  | 268.2  | 263.1  | 237.2  | 208.3  | 205.8  | 207.3  | 224.0  |
| 17.5° | 238.9  | 229.5  | 218.6  | 197.6  | 192.1  | 170.8  | 145.7  | 134.1  | 128.3  | 130.9  | 136.5  |
| 20°   | 167.9  | 164.3  | 165.5  | 154.1  | 146.2  | 125.9  | 111.1  | 106.5  | 105.6  | 108.2  | 110.9  |
| 22.5° | 139.2  | 132.6  | 131.9  | 126.8  | 118.9  | 104.1  | 96.2   | 93.5   | 92.3   | 94.7   | 96.6   |
| 25°   | 121.8  | 115.2  | 112.6  | 109.4  | 101.0  | 90.8   | 86.0   | 83.6   | 82.4   | 83.8   | 85.0   |
| 27.5° | 107.3  | 101.2  | 98.8   | 96.6   | 88.4   | 81.2   | 77.3   | 75.1   | 74.2   | 74.7   | 75.9   |
| 30°   | 96.4   | 91.1   | 87.9   | 85.3   | 78.3   | 73.2   | 69.8   | 67.6   | 66.7   | 66.7   | 67.9   |
| 32.5° | 85.0   | 82.1   | 79.2   | 75.9   | 69.3   | 66.0   | 62.6   | 60.2   | 59.2   | 59.4   | 60.4   |
| 35°   | 70.8   | 69.8   | 70.5   | 67.4   | 61.8   | 58.9   | 55.6   | 52.9   | 52.2   | 52.4   | 53.4   |
| 37.5° | 62.8   | 58.5   | 61.1   | 59.4   | 56.3   | 52.4   | 48.1   | 45.7   | 44.5   | 45.2   | 45.7   |
| 40°   | 57.7   | 52.4   | 50.5   | 52.2   | 51.7   | 45.4   | 41.6   | 39.1   | 38.2   | 38.4   | 38.9   |
| 42.5° | 53.4   | 47.1   | 42.8   | 42.5   | 45.4   | 39.6   | 35.5   | 33.3   | 32.1   | 32.1   | 32.6   |
| 45°   | 49.3   | 42.5   | 37.2   | 33.1   | 38.2   | 33.6   | 29.7   | 27.8   | 26.3   | 26.3   | 26.6   |
| 47.5° | 46.1   | 38.7   | 32.4   | 27.1   | 28.7   | 27.5   | 24.4   | 22.5   | 21.0   | 21.0   | 21.3   |
| 50°   | 43.2   | 34.8   | 28.0   | 22.7   | 21.5   | 22.7   | 19.8   | 17.6   | 16.7   | 16.4   | 16.9   |
| 52.5° | 40.1   | 30.9   | 23.9   | 19.3   | 16.9   | 17.2   | 15.5   | 14.0   | 12.8   | 12.8   | 13.3   |
| 55°   | 37.0   | 27.8   | 20.8   | 16.4   | 14.0   | 12.8   | 12.3   | 11.4   | 10.4   | 10.4   | 10.9   |
| 57.5° | 33.8   | 24.4   | 17.6   | 13.5   | 11.1   | 10.1   | 10.1   | 9.4    | 8.7    | 8.7    | 9.2    |
| 60°   | 30.9   | 21.0   | 14.5   | 11.1   | 8.7    | 8.5    | 8.7    | 8.0    | 7.5    | 7.5    | 8.0    |
| 62.5° | 27.5   | 17.9   | 11.8   | 9.2    | 7.0    | 6.8    | 7.5    | 7.0    | 6.5    | 6.5    | 7.0    |
| 65°   | 23.4   | 15.2   | 9.4    | 7.0    | 5.3    | 5.3    | 6.3    | 5.8    | 5.3    | 5.3    | 5.8    |
| 67.5° | 19.8   | 12.8   | 7.2    | 5.1    | 3.9    | 4.1    | 5.3    | 4.8    | 4.6    | 4.6    | 5.1    |
| 70°   | 16.4   | 9.9    | 5.1    | 3.1    | 2.2    | 3.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.6    |
| 72.5° | 12.3   | 6.8    | 2.9    | 1.2    | 1.0    | 2.2    | 3.4    | 3.9    | 3.6    | 3.6    | 4.3    |
| 75°   | 8.0    | 3.9    | 1.0    | 0.0    | 0.0    | 1.2    | 2.7    | 3.1    | 3.1    | 2.9    | 3.6    |
| 77.5° | 4.6    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 1.4    | 1.2    | 1.0    | 1.7    |
| 80°   | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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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|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 359°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 | 1711.0 |
| 2.5°  | 1507.5 | 1536.0 | 1576.2 | 1618.7 | 1684.1 | 1736.1 | 1787.1 | 1830.8 | 1847.7 | 1854.7 |
| 5°    | 1193.2 | 1235.0 | 1293.7 | 1369.1 | 1487.2 | 1593.5 | 1701.3 | 1809.8 | 1856.9 | 1868.7 |
| 7.5°  | 856.2  | 909.6  | 984.3  | 1078.7 | 1217.1 | 1354.9 | 1505.4 | 1664.6 | 1737.5 | 1755.9 |
| 10°   | 633.7  | 698.9  | 784.5  | 884.0  | 1016.1 | 1157.7 | 1321.8 | 1503.7 | 1587.0 | 1611.4 |
| 12.5° | 449.6  | 537.8  | 652.3  | 773.3  | 887.9  | 1014.2 | 1180.2 | 1380.7 | 1468.2 | 1494.5 |
| 15°   | 264.1  | 349.3  | 484.9  | 647.0  | 793.6  | 921.7  | 1090.3 | 1317.6 | 1414.0 | 1440.6 |
| 17.5° | 151.5  | 194.0  | 296.4  | 477.1  | 676.2  | 853.5  | 1062.0 | 1333.4 | 1446.9 | 1471.5 |
| 20°   | 115.7  | 129.3  | 170.8  | 307.3  | 539.0  | 786.6  | 1062.0 | 1422.3 | 1562.1 | 1598.4 |
| 22.5° | 101.2  | 111.1  | 128.0  | 183.4  | 396.7  | 714.9  | 1074.4 | 1550.8 | 1733.7 | 1773.8 |
| 25°   | 89.9   | 98.8   | 113.3  | 137.9  | 270.6  | 629.6  | 1103.6 | 1708.5 | 1935.6 | 1987.6 |
| 27.5° | 80.5   | 88.9   | 102.0  | 120.8  | 185.1  | 526.7  | 1143.0 | 1893.6 | 2158.4 | 2199.9 |
| 30°   | 72.0   | 80.0   | 91.8   | 105.1  | 142.8  | 410.0  | 1176.6 | 2068.0 | 2333.3 | 2378.0 |
| 32.5° | 64.0   | 71.3   | 81.9   | 91.8   | 116.9  | 303.2  | 1180.2 | 2206.2 | 2478.5 | 2523.0 |
| 35°   | 56.5   | 63.1   | 72.7   | 80.5   | 96.9   | 239.4  | 1123.9 | 2326.1 | 2623.7 | 2682.4 |
| 37.5° | 49.3   | 55.6   | 64.0   | 69.8   | 85.3   | 195.2  | 1037.9 | 2459.7 | 2810.0 | 2864.3 |
| 40°   | 42.5   | 48.1   | 56.8   | 60.6   | 80.7   | 150.0  | 944.4  | 2599.8 | 2992.6 | 3042.4 |
| 42.5° | 36.2   | 41.6   | 50.0   | 57.5   | 70.8   | 112.1  | 843.4  | 2731.2 | 3156.9 | 3209.1 |
| 45°   | 30.2   | 35.8   | 44.2   | 60.9   | 58.7   | 83.8   | 735.4  | 2818.4 | 3286.6 | 3343.4 |
| 47.5° | 24.4   | 30.7   | 42.3   | 58.0   | 46.9   | 61.6   | 649.9  | 2901.1 | 3385.0 | 3441.0 |
| 50°   | 19.6   | 25.9   | 47.6   | 51.7   | 38.4   | 47.1   | 614.1  | 2975.0 | 3449.5 | 3503.3 |
| 52.5° | 15.9   | 21.7   | 44.9   | 39.6   | 32.1   | 38.9   | 633.5  | 3094.8 | 3509.1 | 3543.0 |
| 55°   | 13.3   | 17.2   | 27.1   | 27.5   | 27.3   | 33.1   | 657.4  | 3266.8 | 3663.5 | 3679.5 |
| 57.5° | 11.6   | 13.8   | 18.8   | 21.3   | 23.0   | 29.5   | 657.9  | 3513.7 | 3902.5 | 3912.4 |
| 60°   | 9.9    | 12.1   | 15.7   | 17.2   | 19.8   | 26.3   | 633.9  | 3600.0 | 3996.4 | 4029.3 |
| 62.5° | 8.7    | 10.6   | 13.0   | 14.3   | 16.7   | 23.7   | 577.9  | 3475.1 | 3867.4 | 3923.2 |
| 65°   | 7.7    | 9.7    | 10.9   | 12.1   | 14.7   | 21.3   | 485.6  | 3225.3 | 3653.4 | 3711.6 |
| 67.5° | 6.8    | 8.5    | 9.7    | 10.9   | 13.3   | 18.8   | 357.6  | 2935.1 | 3407.7 | 3456.0 |
| 70°   | 6.0    | 7.5    | 8.7    | 9.7    | 11.6   | 15.9   | 217.0  | 2490.6 | 3068.0 | 3088.0 |
| 72.5° | 5.8    | 6.8    | 8.0    | 8.7    | 10.1   | 14.0   | 109.9  | 1830.3 | 2452.7 | 2485.3 |
| 75°   | 5.1    | 6.0    | 7.2    | 7.7    | 8.9    | 12.1   | 44.7   | 1202.2 | 1777.4 | 1829.8 |
| 77.5° | 4.1    | 5.6    | 6.5    | 7.0    | 7.7    | 9.9    | 22.7   | 768.3  | 1247.3 | 1281.2 |
| 80°   | 1.4    | 4.1    | 5.6    | 5.8    | 6.5    | 7.2    | 15.0   | 420.6  | 723.6  | 738.1  |
| 82.5° | 0.0    | 2.7    | 4.3    | 4.1    | 4.6    | 5.6    | 9.7    | 200.0  | 477.6  | 482.9  |
| 85°   | 0.0    | 1.2    | 3.4    | 2.7    | 1.9    | 3.9    | 3.4    | 43.7   | 250.5  | 260.9  |
| 87.5° | 0.0    | 0.0    | 0.2    | 1.2    | 1.0    | 1.4    | 0.5    | 0.2    | 22.7   | 28.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)