

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: P386583

Luminaire Tested: GAW-SA2B-730-U-SL3

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386583  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2B-730-U-SL3  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10863 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

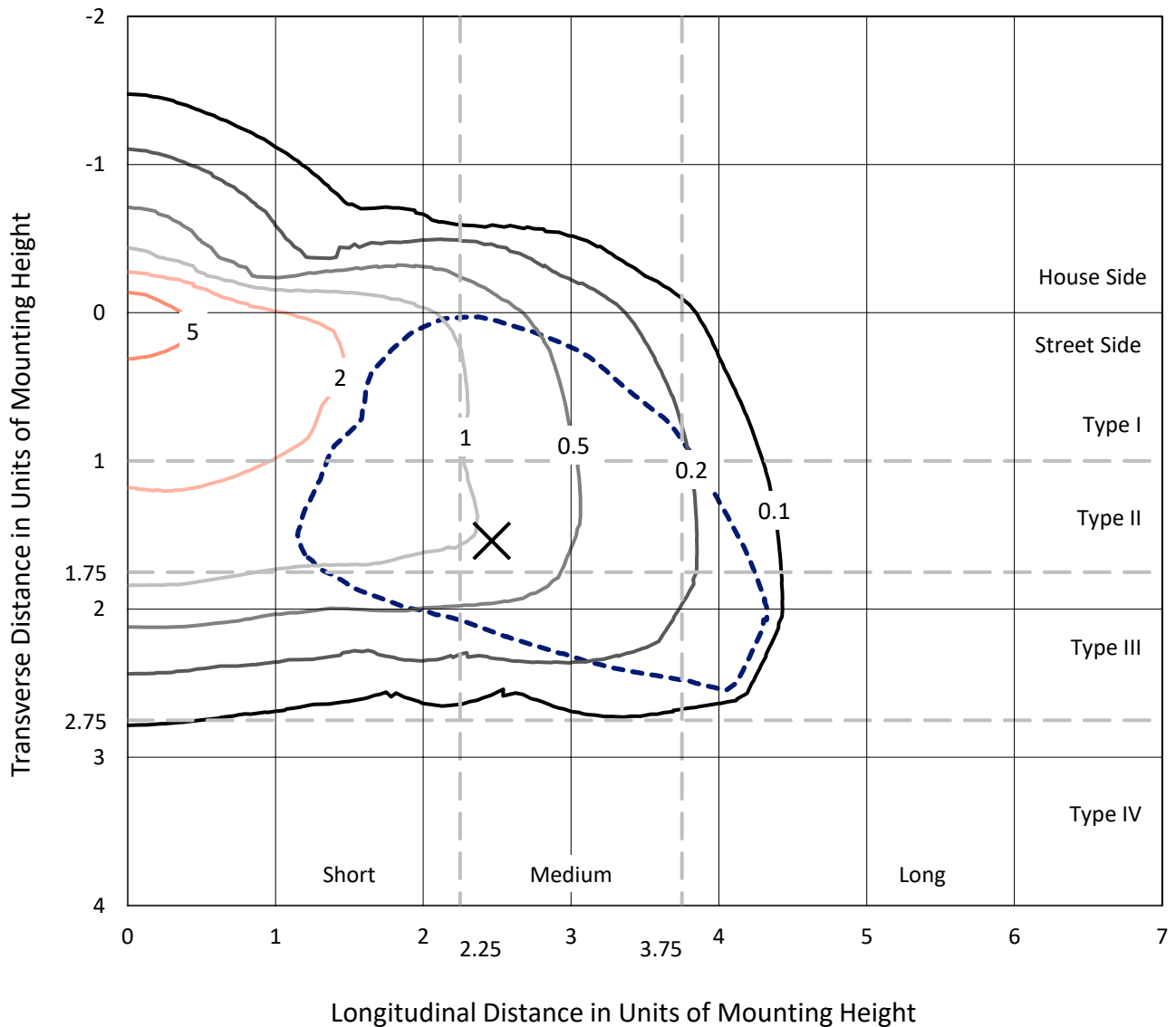
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

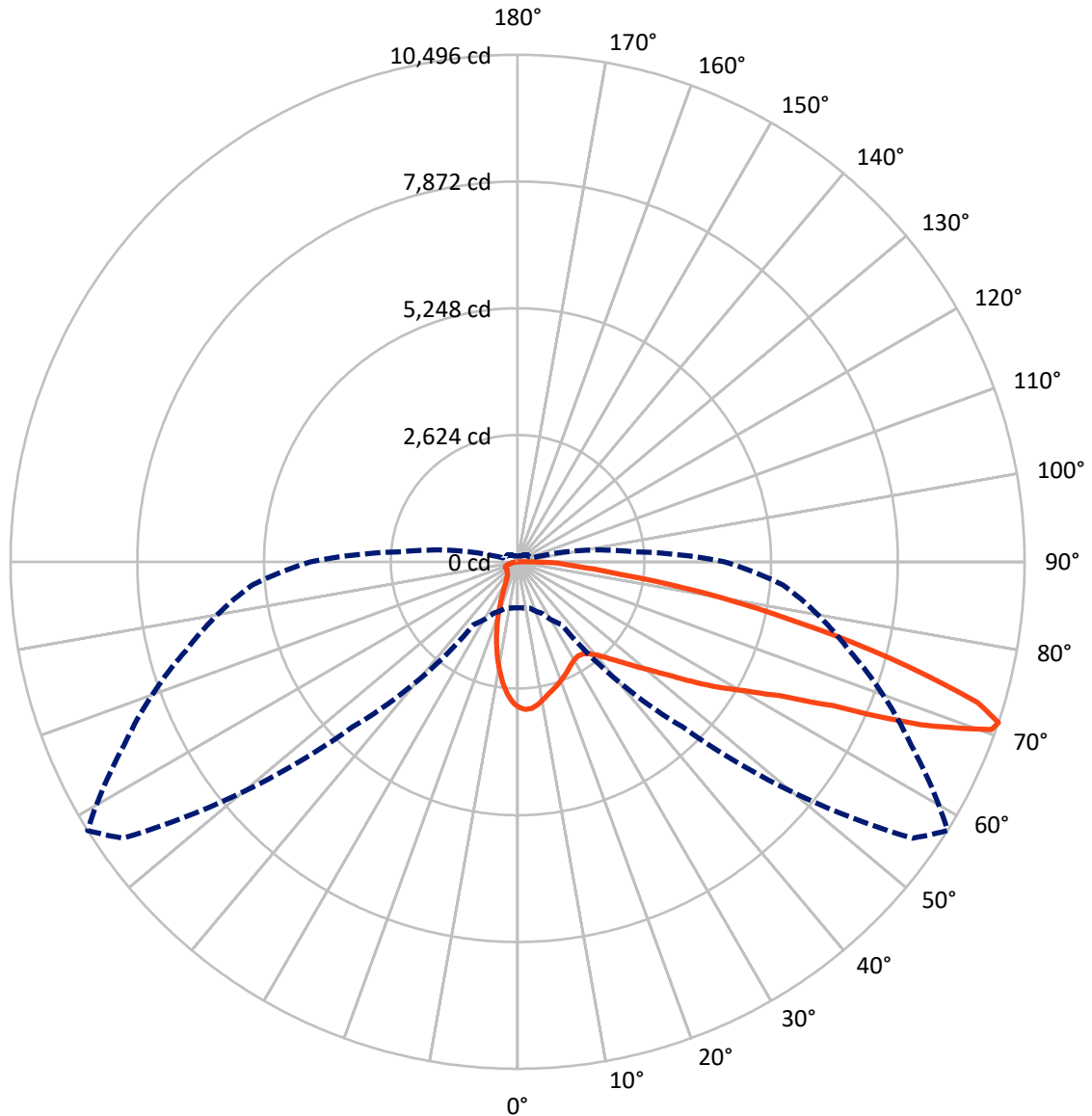
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical



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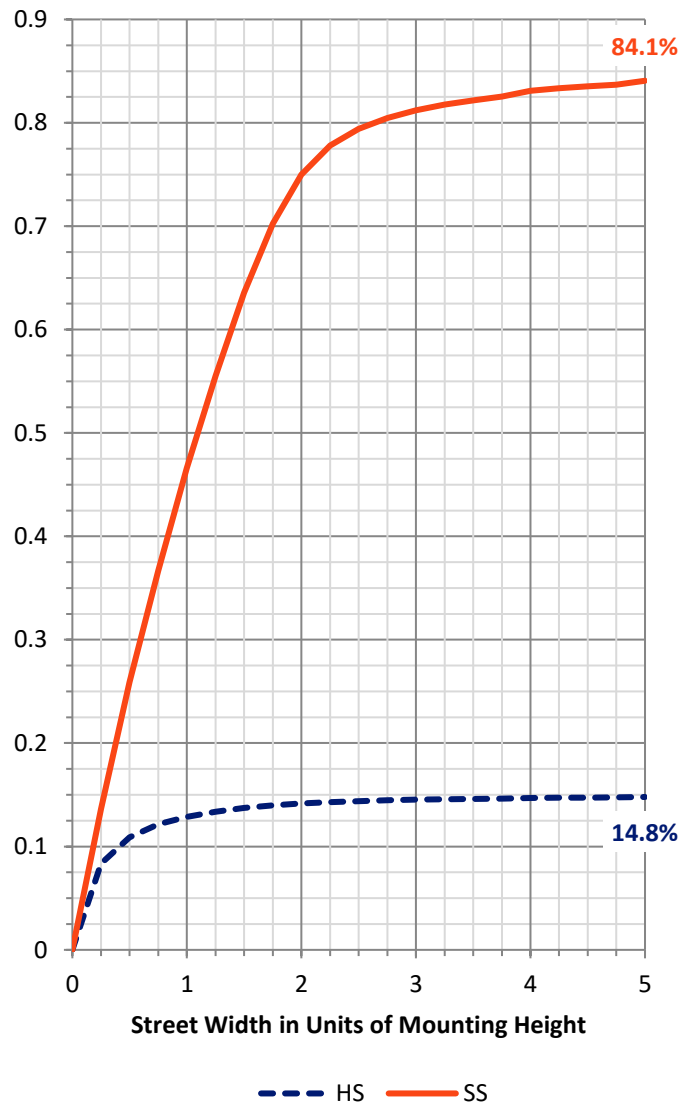
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1624.1   | 0.0    | 1624.1  |
|                    | % Fixture | 15.0     | 0.0    | 15.0    |
| <b>Street Side</b> | Lumens    | 9238.9   | 0.0    | 9238.9  |
|                    | % Fixture | 85.0     | 0.0    | 85.0    |
| <b>Total</b>       | Lumens    | 10863.0  | 0.0    | 10863.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 259.7   | 2.4       |
| 10°-20°   | 577.4   | 5.3       |
| 20°-30°   | 733.8   | 6.8       |
| 30°-40°   | 934.7   | 8.6       |
| 40°-50°   | 1325.4  | 12.2      |
| 50°-60°   | 2051.2  | 18.9      |
| 60°-70°   | 2792.4  | 25.7      |
| 70°-80°   | 1862.9  | 17.1      |
| 80°-90°   | 325.7   | 3.0       |
| 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°    | 10863.0 | 100.0     |
| 0°-180°   | 10863.0 | 100.0     |

**Coefficient of Utilization**



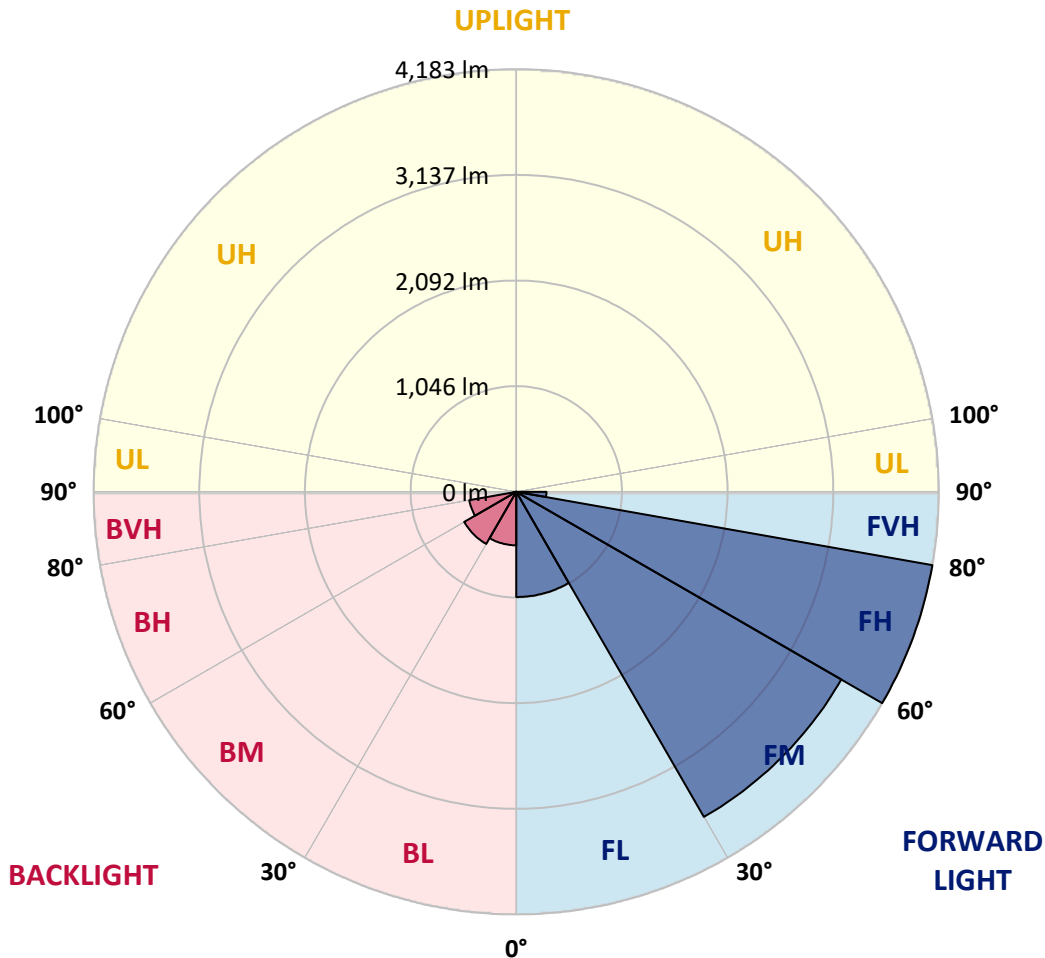
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1041.4 | 9.6       |                         |      |         |
| FM (30°-60°)   | 3715.7 | 34.2      |                         |      |         |
| FH (60°-80°)   | 4183.2 | 38.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 298.6  | 2.7       |                         |      | G3/500  |
| BL (0°-30°)    | 529.4  | 4.9       | B2/1000                 |      |         |
| BM (30°-60°)   | 595.6  | 5.5       | B1/1000                 |      |         |
| BH (60°-80°)   | 472.0  | 4.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 27.1   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 58°     | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|
| 0°    | 3009.8 | 3009.8 | 3009.8 | 3009.8 | 3009.8 | 3009.8 | 3009.8  | 3009.8  | 3009.8 | 3009.8 | 3009.8 |
| 2.5°  | 3089.6 | 3085.5 | 3087.0 | 3083.9 | 3076.8 | 3069.6 | 3059.0  | 3060.9  | 3046.1 | 3024.2 | 2996.9 |
| 5°    | 3031.3 | 3029.8 | 3041.2 | 3047.6 | 3052.9 | 3048.8 | 3045.7  | 3049.5  | 3027.9 | 2997.7 | 2950.4 |
| 7.5°  | 2909.1 | 2892.5 | 2906.9 | 2928.4 | 2948.9 | 2964.4 | 2984.8  | 2987.5  | 2973.8 | 2942.0 | 2880.0 |
| 10°   | 2735.4 | 2719.5 | 2740.7 | 2774.4 | 2815.3 | 2852.4 | 2893.6  | 2901.2  | 2903.8 | 2875.1 | 2799.8 |
| 12.5° | 2555.3 | 2543.2 | 2564.4 | 2611.7 | 2679.4 | 2736.6 | 2802.4  | 2813.8  | 2837.2 | 2817.9 | 2725.6 |
| 15°   | 2394.1 | 2389.6 | 2415.3 | 2461.9 | 2539.8 | 2627.2 | 2722.2  | 2743.0  | 2782.7 | 2776.3 | 2667.7 |
| 17.5° | 2254.9 | 2253.7 | 2273.4 | 2322.2 | 2408.5 | 2519.0 | 2642.4  | 2677.5  | 2736.6 | 2744.1 | 2620.0 |
| 20°   | 2151.2 | 2148.9 | 2162.5 | 2198.5 | 2287.4 | 2412.7 | 2556.1  | 2604.5  | 2689.7 | 2716.1 | 2570.8 |
| 22.5° | 2095.6 | 2095.2 | 2095.6 | 2112.6 | 2185.2 | 2301.8 | 2472.1  | 2531.1  | 2643.9 | 2693.8 | 2516.3 |
| 25°   | 2086.1 | 2085.0 | 2076.6 | 2074.8 | 2116.0 | 2209.1 | 2388.8  | 2453.9  | 2600.4 | 2678.3 | 2464.5 |
| 27.5° | 2110.7 | 2112.2 | 2101.2 | 2083.5 | 2091.8 | 2148.2 | 2316.6  | 2386.2  | 2565.5 | 2675.3 | 2428.6 |
| 30°   | 2161.8 | 2161.0 | 2151.6 | 2133.0 | 2116.8 | 2125.5 | 2265.1  | 2334.7  | 2542.1 | 2688.5 | 2404.0 |
| 32.5° | 2218.2 | 2222.3 | 2220.4 | 2210.2 | 2186.0 | 2151.2 | 2249.6  | 2317.7  | 2535.3 | 2720.3 | 2393.4 |
| 35°   | 2285.9 | 2290.4 | 2304.1 | 2312.0 | 2283.6 | 2227.6 | 2282.9  | 2341.9  | 2554.9 | 2780.1 | 2410.4 |
| 37.5° | 2350.2 | 2362.0 | 2400.2 | 2433.9 | 2409.6 | 2347.2 | 2371.4  | 2413.4  | 2615.9 | 2874.3 | 2456.2 |
| 40°   | 2424.4 | 2434.6 | 2497.0 | 2568.6 | 2564.8 | 2500.1 | 2514.1  | 2542.1  | 2723.3 | 3009.4 | 2539.1 |
| 42.5° | 2497.4 | 2517.9 | 2608.3 | 2709.7 | 2738.8 | 2681.7 | 2704.0  | 2718.8  | 2874.7 | 3188.4 | 2683.6 |
| 45°   | 2594.7 | 2616.6 | 2742.2 | 2864.5 | 2932.6 | 2900.4 | 2936.0  | 2941.7  | 3065.0 | 3432.1 | 2893.6 |
| 47.5° | 2741.9 | 2766.8 | 2913.3 | 3041.6 | 3145.6 | 3149.0 | 3207.7  | 3205.4  | 3302.7 | 3710.9 | 3158.1 |
| 50°   | 2971.2 | 3007.1 | 3127.1 | 3247.0 | 3373.4 | 3443.8 | 3522.1  | 3511.2  | 3587.6 | 4008.0 | 3462.7 |
| 52.5° | 3271.6 | 3288.3 | 3377.2 | 3465.7 | 3622.8 | 3780.6 | 3893.0  | 3883.1  | 3910.7 | 4313.4 | 3808.6 |
| 55°   | 3583.1 | 3595.5 | 3632.2 | 3680.7 | 3891.8 | 4149.1 | 4386.8  | 4371.3  | 4301.2 | 4630.5 | 4150.3 |
| 57.5° | 3863.1 | 3888.4 | 3913.8 | 3933.8 | 4162.8 | 4534.3 | 4891.9  | 4893.1  | 4725.1 | 4972.5 | 4503.3 |
| 60°   | 3906.6 | 3928.9 | 4096.5 | 4254.7 | 4626.3 | 5048.2 | 5432.7  | 5421.3  | 5163.6 | 5343.7 | 4896.8 |
| 62.5° | 3453.3 | 3503.6 | 3783.6 | 4204.4 | 5072.8 | 5988.1 | 6122.5  | 6108.5  | 5688.1 | 5801.2 | 5355.1 |
| 65°   | 2474.7 | 2531.9 | 2869.8 | 3502.1 | 4856.4 | 7023.8 | 7367.4  | 7179.0  | 6403.2 | 6363.9 | 5891.7 |
| 67.5° | 1427.7 | 1441.3 | 1587.8 | 2095.6 | 3697.7 | 7077.9 | 9266.6  | 9002.8  | 7513.8 | 7002.3 | 6154.3 |
| 70°   | 1055.7 | 1055.4 | 1090.2 | 1289.6 | 2001.0 | 5776.6 | 10169.8 | 10406.3 | 8683.1 | 7212.3 | 5783.1 |
| 71°   | 954.7  | 955.8  | 994.8  | 1173.8 | 1584.7 | 4835.2 | 9978.0  | 10495.6 | 8991.1 | 7108.6 | 5514.4 |
| 72.5° | 816.6  | 820.4  | 874.5  | 1052.7 | 1333.1 | 3334.4 | 9151.6  | 9959.8  | 9137.2 | 6852.8 | 5094.0 |
| 75°   | 619.4  | 628.1  | 703.1  | 887.3  | 1218.4 | 1691.1 | 6716.6  | 7953.2  | 8117.0 | 6046.8 | 3785.1 |
| 77.5° | 442.0  | 451.8  | 536.6  | 746.2  | 1158.3 | 1274.4 | 4498.0  | 5801.2  | 5973.4 | 3875.2 | 1707.3 |
| 80°   | 279.3  | 291.0  | 354.9  | 593.7  | 1088.3 | 1210.1 | 2826.6  | 3899.4  | 3257.2 | 1240.0 | 434.4  |
| 82.5° | 163.8  | 172.9  | 220.2  | 387.9  | 888.9  | 1165.5 | 1663.1  | 2161.4  | 1267.6 | 374.6  | 197.5  |
| 85°   | 95.0   | 99.1   | 137.4  | 247.1  | 645.5  | 1100.0 | 1221.8  | 1208.2  | 550.2  | 183.1  | 93.5   |
| 87.5° | 44.3   | 49.2   | 81.4   | 129.0  | 358.3  | 797.3  | 965.7   | 834.4   | 342.1  | 85.9   | 43.9   |
| 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°    | 3009.8 | 3009.8 | 3009.8 | 3009.8 | 3009.8 | 3009.8 | 3009.8 | 3009.8 | 3009.8 | 3009.8 | 3009.8 |
| 2.5°  | 2983.7 | 2977.2 | 2950.4 | 2926.5 | 2901.6 | 2869.0 | 2833.1 | 2828.5 | 2806.6 | 2810.7 | 2803.2 |
| 5°    | 2924.6 | 2908.4 | 2843.7 | 2785.0 | 2715.8 | 2653.7 | 2586.3 | 2555.3 | 2510.7 | 2507.6 | 2496.3 |
| 7.5°  | 2840.3 | 2810.0 | 2709.7 | 2598.5 | 2487.2 | 2381.3 | 2276.4 | 2207.6 | 2137.2 | 2107.3 | 2104.6 |
| 10°   | 2745.3 | 2693.8 | 2546.2 | 2381.6 | 2221.2 | 2066.4 | 1916.6 | 1805.7 | 1705.8 | 1658.5 | 1656.6 |
| 12.5° | 2655.2 | 2579.2 | 2376.7 | 2152.7 | 1933.2 | 1732.7 | 1527.2 | 1381.5 | 1256.3 | 1214.3 | 1196.5 |
| 15°   | 2578.8 | 2471.7 | 2211.7 | 1925.3 | 1658.9 | 1380.4 | 1146.5 | 993.3  | 877.5  | 837.4  | 829.8  |
| 17.5° | 2504.6 | 2366.9 | 2042.6 | 1695.6 | 1373.6 | 1067.5 | 833.2  | 719.3  | 657.7  | 641.4  | 641.0  |
| 20°   | 2430.8 | 2259.0 | 1865.9 | 1460.6 | 1097.7 | 798.4  | 640.6  | 589.5  | 568.7  | 566.8  | 563.8  |
| 22.5° | 2347.2 | 2144.8 | 1680.1 | 1224.9 | 856.7  | 627.8  | 544.5  | 524.1  | 521.4  | 528.2  | 528.2  |
| 25°   | 2268.9 | 2031.2 | 1491.6 | 994.1  | 666.4  | 523.7  | 486.2  | 482.1  | 489.3  | 501.4  | 502.5  |
| 27.5° | 2195.8 | 1921.9 | 1307.7 | 789.0  | 533.9  | 461.3  | 445.8  | 450.7  | 463.5  | 477.5  | 477.9  |
| 30°   | 2135.7 | 1818.6 | 1129.1 | 621.7  | 451.1  | 414.7  | 412.1  | 421.9  | 435.9  | 446.9  | 449.5  |
| 32.5° | 2089.1 | 1730.4 | 956.6  | 499.9  | 396.9  | 379.9  | 382.2  | 390.5  | 399.2  | 405.3  | 409.4  |
| 35°   | 2067.6 | 1654.7 | 797.3  | 421.5  | 362.5  | 353.0  | 356.1  | 360.6  | 364.4  | 368.9  | 372.3  |
| 37.5° | 2071.4 | 1596.1 | 655.0  | 372.7  | 339.4  | 334.5  | 334.5  | 334.5  | 334.5  | 336.8  | 337.2  |
| 40°   | 2106.5 | 1562.4 | 539.2  | 341.7  | 323.9  | 318.6  | 314.4  | 310.7  | 307.6  | 309.2  | 308.4  |
| 42.5° | 2196.6 | 1559.4 | 454.5  | 322.0  | 311.4  | 302.7  | 294.4  | 289.1  | 285.3  | 286.8  | 287.6  |
| 45°   | 2349.5 | 1597.2 | 397.3  | 308.0  | 299.7  | 286.4  | 275.9  | 270.2  | 267.5  | 272.4  | 273.2  |
| 47.5° | 2547.4 | 1679.7 | 362.5  | 297.8  | 288.7  | 271.3  | 260.0  | 254.7  | 255.4  | 262.6  | 264.5  |
| 50°   | 2802.4 | 1813.7 | 345.9  | 291.4  | 281.1  | 258.4  | 246.7  | 242.2  | 244.4  | 254.7  | 256.9  |
| 52.5° | 3082.4 | 2006.6 | 347.7  | 289.5  | 276.2  | 249.0  | 236.5  | 231.2  | 235.0  | 244.4  | 246.3  |
| 55°   | 3405.6 | 2238.6 | 379.2  | 292.1  | 269.0  | 242.9  | 228.2  | 219.1  | 222.1  | 230.8  | 232.3  |
| 57.5° | 3764.7 | 2504.2 | 442.3  | 291.4  | 260.0  | 237.3  | 219.5  | 205.8  | 208.1  | 213.4  | 214.9  |
| 60°   | 4138.5 | 2825.1 | 540.4  | 293.6  | 255.8  | 230.4  | 207.7  | 190.7  | 190.0  | 194.5  | 195.3  |
| 62.5° | 4587.3 | 3196.3 | 652.4  | 295.2  | 258.4  | 221.7  | 192.2  | 175.6  | 173.3  | 174.4  | 175.2  |
| 65°   | 5049.7 | 3465.0 | 610.4  | 289.1  | 266.8  | 214.6  | 178.6  | 160.8  | 156.7  | 155.9  | 156.3  |
| 67.5° | 5064.1 | 3177.0 | 428.0  | 277.0  | 270.2  | 210.8  | 168.4  | 148.3  | 141.5  | 138.9  | 138.5  |
| 70°   | 4541.5 | 2581.1 | 333.4  | 264.1  | 256.6  | 204.7  | 158.9  | 138.1  | 127.9  | 123.7  | 123.4  |
| 71°   | 4286.5 | 2376.0 | 316.0  | 257.7  | 246.3  | 198.7  | 154.8  | 133.6  | 123.0  | 118.4  | 117.7  |
| 72.5° | 3886.5 | 2130.0 | 294.8  | 247.5  | 226.7  | 183.1  | 146.8  | 127.1  | 116.2  | 110.9  | 109.7  |
| 75°   | 2789.2 | 1392.9 | 253.1  | 220.6  | 187.7  | 146.1  | 128.7  | 114.3  | 104.8  | 98.4   | 97.6   |
| 77.5° | 1074.7 | 554.4  | 191.5  | 183.5  | 143.8  | 114.3  | 106.0  | 98.8   | 92.0   | 85.5   | 85.1   |
| 80°   | 332.2  | 247.9  | 139.6  | 138.1  | 104.1  | 85.1   | 82.5   | 80.6   | 77.9   | 71.1   | 69.6   |
| 82.5° | 177.5  | 142.3  | 96.1   | 89.3   | 68.1   | 56.8   | 59.8   | 60.5   | 60.9   | 53.7   | 53.0   |
| 85°   | 84.8   | 75.3   | 54.1   | 50.7   | 39.7   | 31.8   | 36.7   | 39.7   | 40.1   | 32.9   | 30.7   |
| 87.5° | 40.5   | 39.4   | 25.4   | 19.3   | 14.8   | 10.6   | 12.9   | 15.9   | 17.4   | 12.5   | 11.0   |
| 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)