

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P319596

Luminaire Tested: **GAN-SA2B-727-U-SL3**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P319596  
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 (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2B-727-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 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: 9779 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3

Input Watts (W): 85  
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: 24 FT

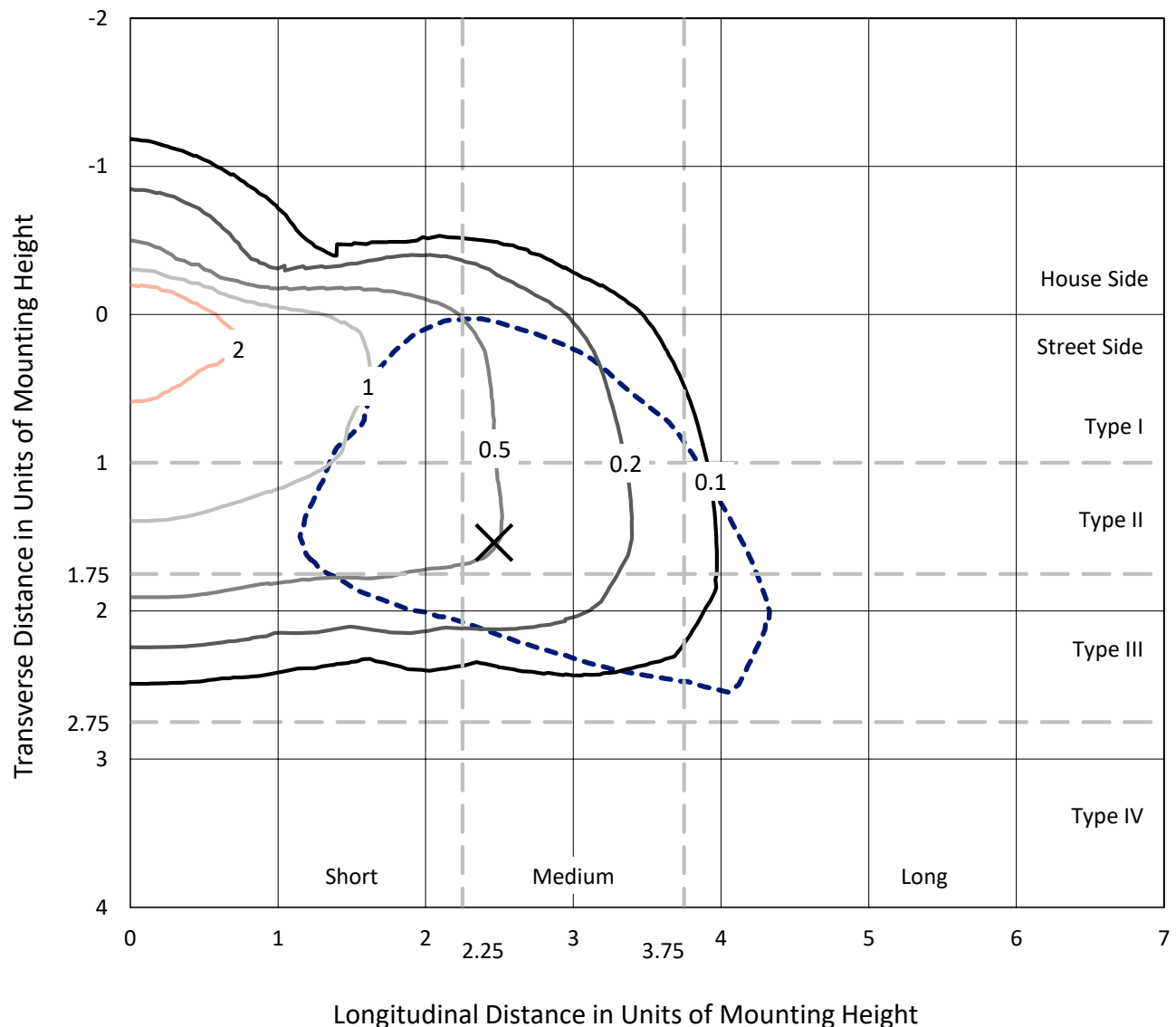


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## Iso-Footcandle Lines of Horizontal Illumination

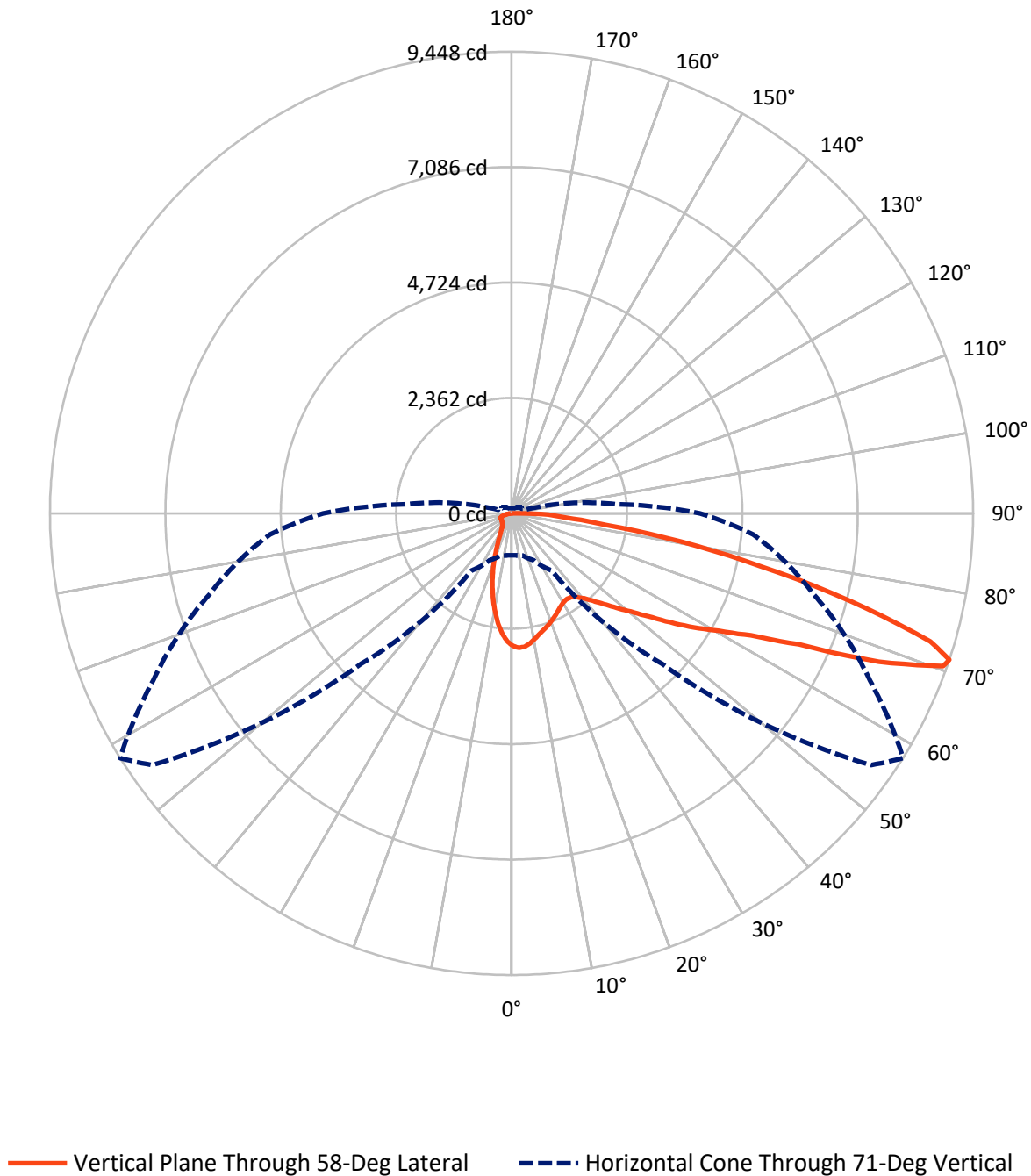
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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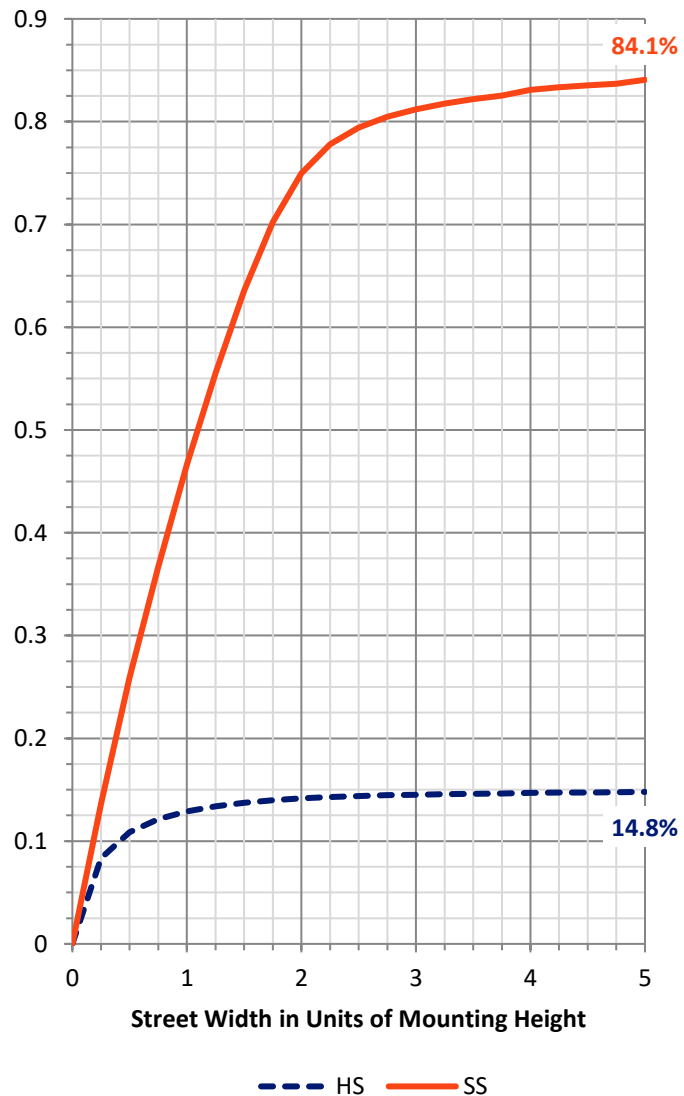
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1462.0   | 0.0    | 1462.0 |
|                    | % Fixture | 15.0     | 0.0    | 15.0   |
| <b>Street Side</b> | Lumens    | 8317.0   | 0.0    | 8317.0 |
|                    | % Fixture | 85.0     | 0.0    | 85.0   |
| <b>Total</b>       | Lumens    | 9779.0   | 0.0    | 9779.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 233.7  | 2.4       |
| 10°-20°   | 519.8  | 5.3       |
| 20°-30°   | 660.6  | 6.8       |
| 30°-40°   | 841.4  | 8.6       |
| 40°-50°   | 1193.2 | 12.2      |
| 50°-60°   | 1846.5 | 18.9      |
| 60°-70°   | 2513.7 | 25.7      |
| 70°-80°   | 1677.0 | 17.1      |
| 80°-90°   | 293.2  | 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°    | 9779.0 | 100.0     |
| 0°-180°   | 9779.0 | 100.0     |

**Coefficient of Utilization**



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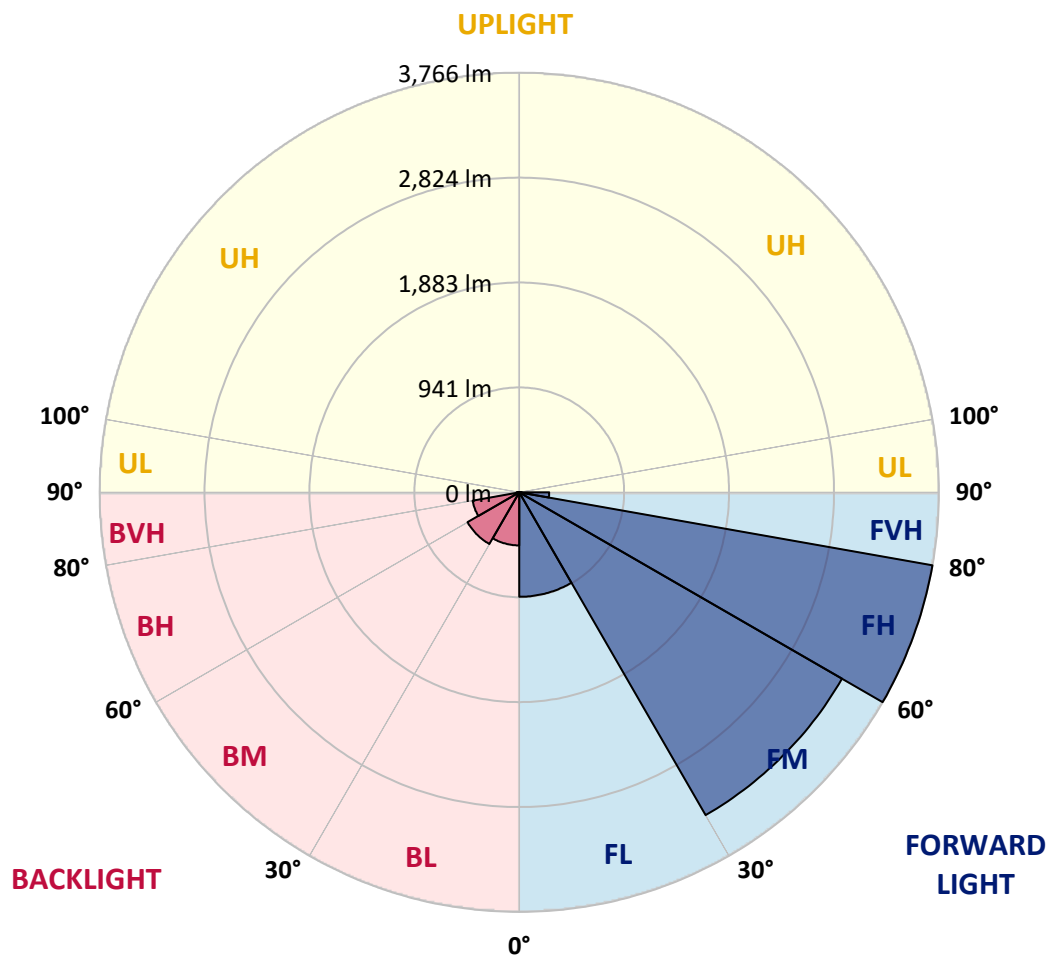
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 937.5  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 3344.9 | 34.2      |                         |      |         |
| FH   | (60°-80°)   | 3765.8 | 38.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 268.8  | 2.7       |                         |      | G3/500  |
| BL   | (0°-30°)    | 476.6  | 4.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 536.2  | 5.5       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 424.9  | 4.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 24.4   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2709.4 | 2709.4 | 2709.4 | 2709.4 | 2709.4 | 2709.4 | 2709.4 | 2709.4 | 2709.4 | 2709.4 | 2709.4 |
| 2.5°  | 2781.3 | 2777.6 | 2778.9 | 2776.2 | 2769.7 | 2763.3 | 2753.7 | 2755.4 | 2742.1 | 2722.4 | 2697.9 |
| 5°    | 2728.9 | 2727.5 | 2737.7 | 2743.5 | 2748.3 | 2744.5 | 2741.8 | 2745.2 | 2725.8 | 2698.5 | 2656.0 |
| 7.5°  | 2618.8 | 2603.8 | 2616.8 | 2636.2 | 2654.6 | 2668.6 | 2687.0 | 2689.3 | 2677.1 | 2648.5 | 2592.6 |
| 10°   | 2462.5 | 2448.2 | 2467.2 | 2497.6 | 2534.3 | 2567.7 | 2604.9 | 2611.7 | 2614.1 | 2588.2 | 2520.4 |
| 12.5° | 2300.3 | 2289.4 | 2308.5 | 2351.1 | 2412.1 | 2463.5 | 2522.8 | 2533.0 | 2554.1 | 2536.7 | 2453.6 |
| 15°   | 2155.2 | 2151.1 | 2174.3 | 2216.2 | 2286.4 | 2365.1 | 2450.6 | 2469.3 | 2505.1 | 2499.3 | 2401.5 |
| 17.5° | 2029.9 | 2028.8 | 2046.6 | 2090.5 | 2168.2 | 2267.6 | 2378.7 | 2410.4 | 2463.5 | 2470.3 | 2358.6 |
| 20°   | 1936.5 | 1934.5 | 1946.7 | 1979.1 | 2059.2 | 2171.9 | 2301.0 | 2344.6 | 2421.3 | 2445.1 | 2314.3 |
| 22.5° | 1886.5 | 1886.1 | 1886.5 | 1901.8 | 1967.2 | 2072.1 | 2225.4 | 2278.5 | 2380.0 | 2425.0 | 2265.2 |
| 25°   | 1877.9 | 1876.9 | 1869.4 | 1867.7 | 1904.8 | 1988.6 | 2150.4 | 2209.0 | 2340.9 | 2411.0 | 2218.6 |
| 27.5° | 1900.1 | 1901.4 | 1891.6 | 1875.6 | 1883.0 | 1933.8 | 2085.4 | 2148.1 | 2309.5 | 2408.3 | 2186.2 |
| 30°   | 1946.1 | 1945.4 | 1936.9 | 1920.2 | 1905.5 | 1913.4 | 2039.1 | 2101.7 | 2288.4 | 2420.2 | 2164.1 |
| 32.5° | 1996.8 | 2000.6 | 1998.9 | 1989.7 | 1967.9 | 1936.5 | 2025.1 | 2086.4 | 2282.3 | 2448.8 | 2154.5 |
| 35°   | 2057.8 | 2061.9 | 2074.1 | 2081.3 | 2055.8 | 2005.3 | 2055.1 | 2108.2 | 2300.0 | 2502.7 | 2169.9 |
| 37.5° | 2115.7 | 2126.3 | 2160.7 | 2191.0 | 2169.2 | 2113.0 | 2134.8 | 2172.6 | 2354.8 | 2587.5 | 2211.1 |
| 40°   | 2182.5 | 2191.7 | 2247.9 | 2312.3 | 2308.8 | 2250.6 | 2263.2 | 2288.4 | 2451.6 | 2709.1 | 2285.7 |
| 42.5° | 2248.2 | 2266.6 | 2348.0 | 2439.3 | 2465.5 | 2414.1 | 2434.2 | 2447.5 | 2587.8 | 2870.2 | 2415.8 |
| 45°   | 2335.8 | 2355.5 | 2468.6 | 2578.6 | 2639.9 | 2611.0 | 2643.0 | 2648.1 | 2759.2 | 3089.6 | 2604.9 |
| 47.5° | 2468.3 | 2490.7 | 2622.6 | 2738.1 | 2831.7 | 2834.8 | 2887.6 | 2885.5 | 2973.1 | 3340.6 | 2843.0 |
| 50°   | 2674.7 | 2707.1 | 2815.0 | 2923.0 | 3036.8 | 3100.1 | 3170.7 | 3160.8 | 3229.6 | 3608.0 | 3117.2 |
| 52.5° | 2945.2 | 2960.1 | 3040.2 | 3119.9 | 3261.3 | 3403.3 | 3504.5 | 3495.6 | 3520.5 | 3882.9 | 3428.5 |
| 55°   | 3225.5 | 3236.7 | 3269.8 | 3313.4 | 3503.5 | 3735.1 | 3949.0 | 3935.1 | 3872.0 | 4168.4 | 3736.1 |
| 57.5° | 3477.6 | 3500.4 | 3523.2 | 3541.3 | 3747.4 | 4081.9 | 4403.8 | 4404.8 | 4253.5 | 4476.3 | 4053.9 |
| 60°   | 3516.7 | 3536.8 | 3687.7 | 3830.1 | 4164.6 | 4544.5 | 4890.5 | 4880.3 | 4648.3 | 4810.5 | 4408.2 |
| 62.5° | 3108.7 | 3154.0 | 3406.0 | 3784.8 | 4566.6 | 5390.6 | 5511.5 | 5498.9 | 5120.5 | 5222.3 | 4820.7 |
| 65°   | 2227.8 | 2279.2 | 2583.4 | 3152.6 | 4371.8 | 6322.9 | 6632.2 | 6462.6 | 5764.3 | 5728.9 | 5303.7 |
| 67.5° | 1285.2 | 1297.5 | 1429.3 | 1886.5 | 3328.7 | 6371.6 | 8341.9 | 8104.5 | 6764.1 | 6303.5 | 5540.1 |
| 70°   | 950.4  | 950.0  | 981.4  | 1160.9 | 1801.3 | 5200.2 | 9155.0 | 9367.9 | 7816.6 | 6492.6 | 5206.0 |
| 71°   | 859.4  | 860.5  | 895.5  | 1056.7 | 1426.6 | 4352.7 | 8982.3 | 9448.3 | 8093.9 | 6399.2 | 4964.1 |
| 72.5° | 735.1  | 738.5  | 787.2  | 947.7  | 1200.1 | 3001.7 | 8238.3 | 8965.9 | 8225.4 | 6169.0 | 4585.7 |
| 75°   | 557.6  | 565.5  | 632.9  | 798.8  | 1096.9 | 1522.3 | 6046.3 | 7159.5 | 7307.0 | 5443.4 | 3407.4 |
| 77.5° | 397.9  | 406.7  | 483.0  | 671.7  | 1042.7 | 1147.3 | 4049.2 | 5222.3 | 5377.3 | 3488.5 | 1537.0 |
| 80°   | 251.4  | 262.0  | 319.5  | 534.5  | 979.7  | 1089.4 | 2544.6 | 3510.3 | 2932.2 | 1116.3 | 391.1  |
| 82.5° | 147.5  | 155.7  | 198.3  | 349.2  | 800.2  | 1049.2 | 1497.1 | 1945.7 | 1141.1 | 337.2  | 177.8  |
| 85°   | 85.5   | 89.2   | 123.7  | 222.4  | 581.1  | 990.2  | 1099.9 | 1087.7 | 495.3  | 164.9  | 84.1   |
| 87.5° | 39.9   | 44.3   | 73.2   | 116.2  | 322.6  | 717.7  | 869.3  | 751.1  | 307.9  | 77.3   | 39.5   |
| 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°    | 2709.4 | 2709.4 | 2709.4 | 2709.4 | 2709.4 | 2709.4 | 2709.4 | 2709.4 | 2709.4 | 2709.4 | 2709.4 |
| 2.5°  | 2685.9 | 2680.1 | 2656.0 | 2634.5 | 2612.0 | 2582.7 | 2550.4 | 2546.3 | 2526.5 | 2530.3 | 2523.4 |
| 5°    | 2632.8 | 2618.1 | 2559.9 | 2507.1 | 2444.8 | 2388.9 | 2328.3 | 2300.3 | 2260.1 | 2257.4 | 2247.2 |
| 7.5°  | 2556.8 | 2529.6 | 2439.3 | 2339.2 | 2239.0 | 2143.6 | 2049.3 | 1987.3 | 1923.9 | 1897.0 | 1894.6 |
| 10°   | 2471.3 | 2425.0 | 2292.2 | 2144.0 | 1999.5 | 1860.2 | 1725.3 | 1625.5 | 1535.6 | 1493.0 | 1491.3 |
| 12.5° | 2390.3 | 2321.8 | 2139.5 | 1937.9 | 1740.3 | 1559.8 | 1374.8 | 1243.7 | 1130.9 | 1093.1 | 1077.1 |
| 15°   | 2321.4 | 2225.0 | 1991.0 | 1733.2 | 1493.4 | 1242.6 | 1032.1 | 894.2  | 789.9  | 753.8  | 747.0  |
| 17.5° | 2254.7 | 2130.7 | 1838.8 | 1526.4 | 1236.5 | 960.9  | 750.1  | 647.6  | 592.0  | 577.4  | 577.0  |
| 20°   | 2188.3 | 2033.6 | 1679.7 | 1314.9 | 988.2  | 718.7  | 576.7  | 530.7  | 512.0  | 510.3  | 507.6  |
| 22.5° | 2113.0 | 1930.7 | 1512.4 | 1102.6 | 771.2  | 565.1  | 490.2  | 471.8  | 469.4  | 475.5  | 475.5  |
| 25°   | 2042.5 | 1828.5 | 1342.8 | 894.9  | 599.9  | 471.4  | 437.7  | 434.0  | 440.4  | 451.3  | 452.4  |
| 27.5° | 1976.7 | 1730.1 | 1177.2 | 710.2  | 480.6  | 415.2  | 401.3  | 405.7  | 417.3  | 429.9  | 430.2  |
| 30°   | 1922.6 | 1637.1 | 1016.5 | 559.7  | 406.0  | 373.3  | 371.0  | 379.8  | 392.4  | 402.3  | 404.7  |
| 32.5° | 1880.7 | 1557.7 | 861.1  | 450.0  | 357.3  | 342.0  | 344.0  | 351.5  | 359.4  | 364.8  | 368.6  |
| 35°   | 1861.2 | 1489.6 | 717.7  | 379.5  | 326.3  | 317.8  | 320.5  | 324.6  | 328.0  | 332.1  | 335.2  |
| 37.5° | 1864.7 | 1436.8 | 589.6  | 335.5  | 305.6  | 301.1  | 301.1  | 301.1  | 301.1  | 303.2  | 303.5  |
| 40°   | 1896.3 | 1406.5 | 485.4  | 307.6  | 291.6  | 286.8  | 283.1  | 279.7  | 276.9  | 278.3  | 277.6  |
| 42.5° | 1977.4 | 1403.8 | 409.1  | 289.9  | 280.3  | 272.5  | 265.0  | 260.2  | 256.8  | 258.2  | 258.9  |
| 45°   | 2115.0 | 1437.8 | 357.7  | 277.3  | 269.8  | 257.9  | 248.3  | 243.2  | 240.8  | 245.3  | 245.9  |
| 47.5° | 2293.2 | 1512.1 | 326.3  | 268.1  | 259.9  | 244.2  | 234.0  | 229.2  | 229.9  | 236.4  | 238.1  |
| 50°   | 2522.8 | 1632.7 | 311.3  | 262.3  | 253.1  | 232.7  | 222.1  | 218.0  | 220.1  | 229.2  | 231.3  |
| 52.5° | 2774.8 | 1806.4 | 313.0  | 260.6  | 248.7  | 224.1  | 212.9  | 208.1  | 211.5  | 220.1  | 221.8  |
| 55°   | 3065.7 | 2015.2 | 341.3  | 263.0  | 242.2  | 218.7  | 205.4  | 197.2  | 200.0  | 207.8  | 209.2  |
| 57.5° | 3389.0 | 2254.3 | 398.2  | 262.3  | 234.0  | 213.6  | 197.6  | 185.3  | 187.4  | 192.1  | 193.5  |
| 60°   | 3725.6 | 2543.2 | 486.4  | 264.3  | 230.3  | 207.4  | 187.0  | 171.7  | 171.0  | 175.1  | 175.8  |
| 62.5° | 4129.6 | 2877.4 | 587.3  | 265.7  | 232.7  | 199.6  | 173.0  | 158.1  | 156.0  | 157.0  | 157.7  |
| 65°   | 4545.8 | 3119.2 | 549.4  | 260.2  | 240.1  | 193.1  | 160.8  | 144.8  | 141.0  | 140.3  | 140.7  |
| 67.5° | 4558.8 | 2860.0 | 385.3  | 249.3  | 243.2  | 189.7  | 151.6  | 133.5  | 127.4  | 125.0  | 124.7  |
| 70°   | 4088.3 | 2323.5 | 300.1  | 237.8  | 231.0  | 184.3  | 143.1  | 124.3  | 115.1  | 111.4  | 111.0  |
| 71°   | 3858.8 | 2138.9 | 284.4  | 232.0  | 221.8  | 178.8  | 139.3  | 120.2  | 110.7  | 106.6  | 105.9  |
| 72.5° | 3498.7 | 1917.5 | 265.4  | 222.8  | 204.0  | 164.9  | 132.2  | 114.5  | 104.6  | 99.8   | 98.8   |
| 75°   | 2510.8 | 1253.9 | 227.9  | 198.6  | 169.0  | 131.5  | 115.8  | 102.9  | 94.4   | 88.6   | 87.9   |
| 77.5° | 967.4  | 499.0  | 172.4  | 165.2  | 129.4  | 102.9  | 95.4   | 88.9   | 82.8   | 77.0   | 76.6   |
| 80°   | 299.1  | 223.1  | 125.7  | 124.3  | 93.7   | 76.6   | 74.3   | 72.6   | 70.2   | 64.0   | 62.7   |
| 82.5° | 159.8  | 128.1  | 86.5   | 80.4   | 61.3   | 51.1   | 53.8   | 54.5   | 54.8   | 48.4   | 47.7   |
| 85°   | 76.3   | 67.8   | 48.7   | 45.6   | 35.8   | 28.6   | 33.0   | 35.8   | 36.1   | 29.6   | 27.6   |
| 87.5° | 36.4   | 35.4   | 22.8   | 17.4   | 13.3   | 9.5    | 11.6   | 14.3   | 15.7   | 11.2   | 9.9    |
| 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)