

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: P317686

Luminaire Tested: **GAN-SA2C-727-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317686  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2C-727-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12375 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 113  
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

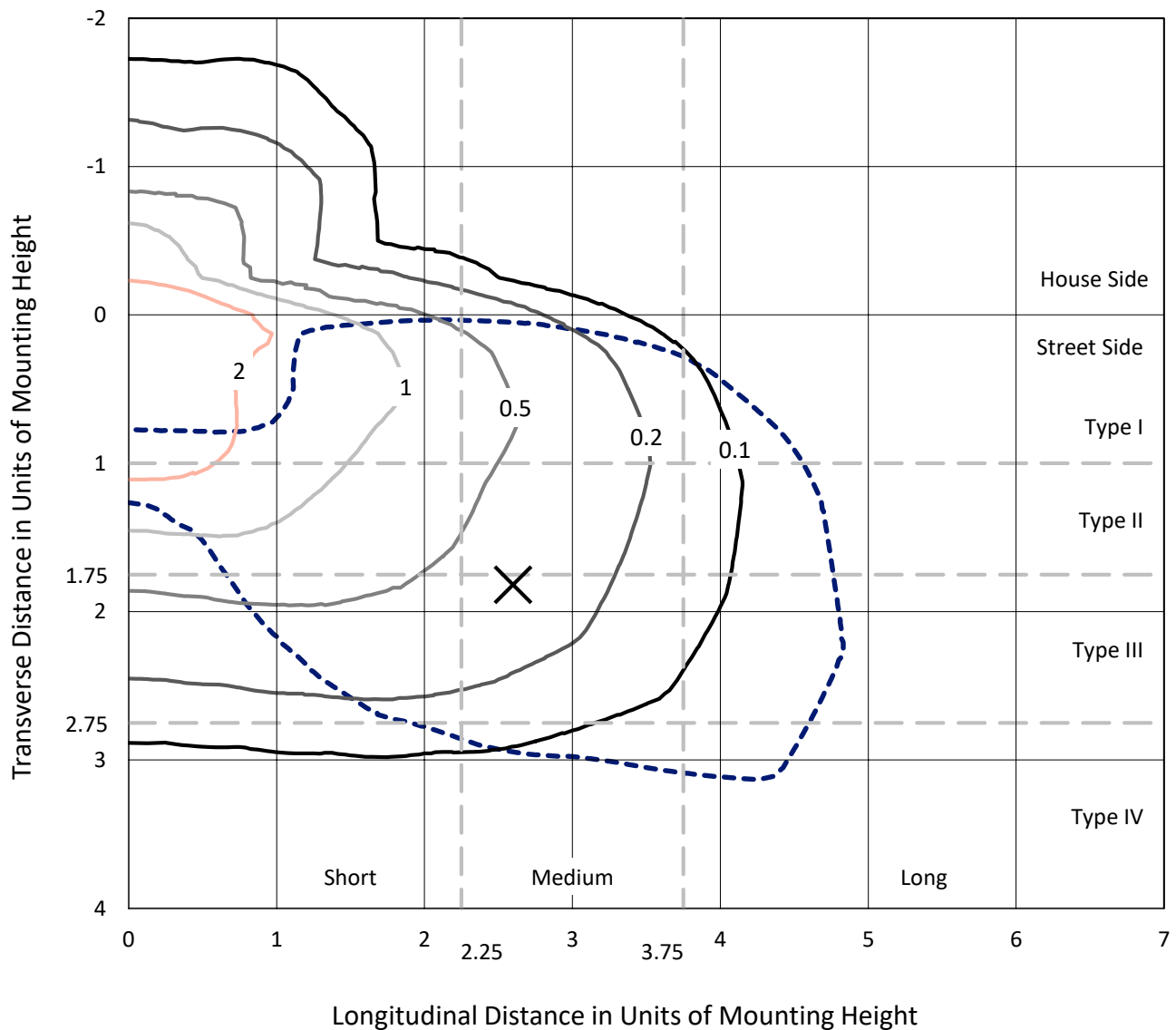


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## Iso-Footcandle Lines of Horizontal Illumination

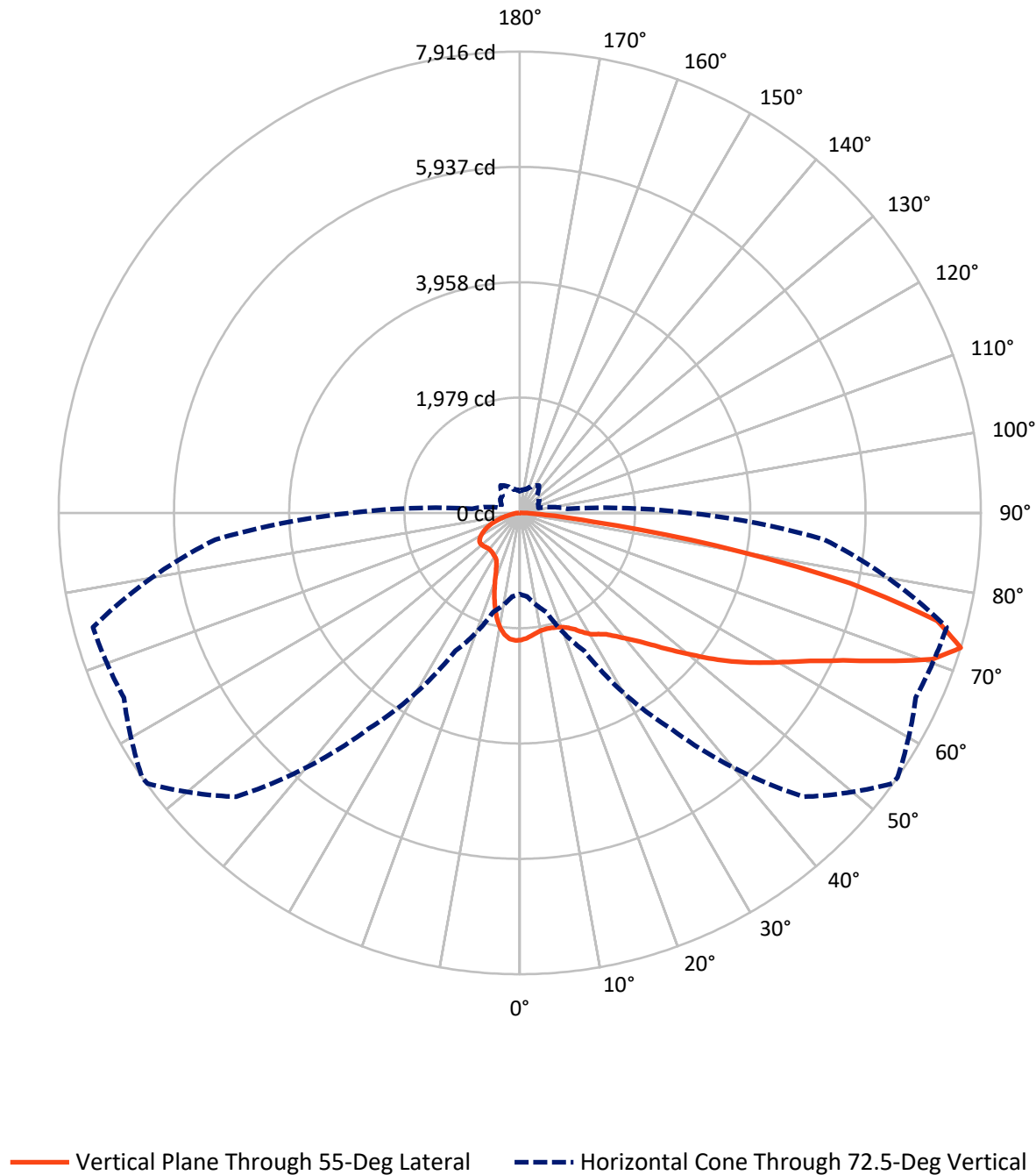
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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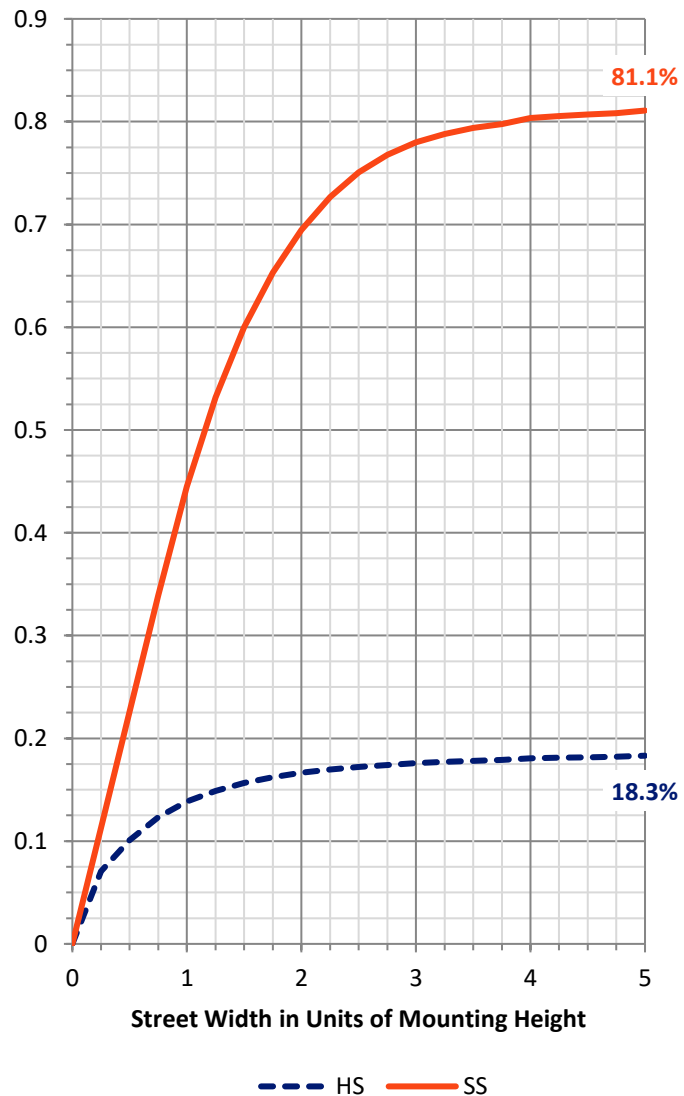
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2300.1   | 0.0    | 2300.1  |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 10074.9  | 0.0    | 10074.9 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 12375.0  | 0.0    | 12375.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 197.5   | 1.6       |
| 10°-20°   | 525.8   | 4.2       |
| 20°-30°   | 867.0   | 7.0       |
| 30°-40°   | 1282.5  | 10.4      |
| 40°-50°   | 1790.1  | 14.5      |
| 50°-60°   | 2330.7  | 18.8      |
| 60°-70°   | 2864.4  | 23.1      |
| 70°-80°   | 2245.3  | 18.1      |
| 80°-90°   | 271.7   | 2.2       |
| 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°    | 12375.0 | 100.0     |
| 0°-180°   | 12375.0 | 100.0     |

**Coefficient of Utilization**



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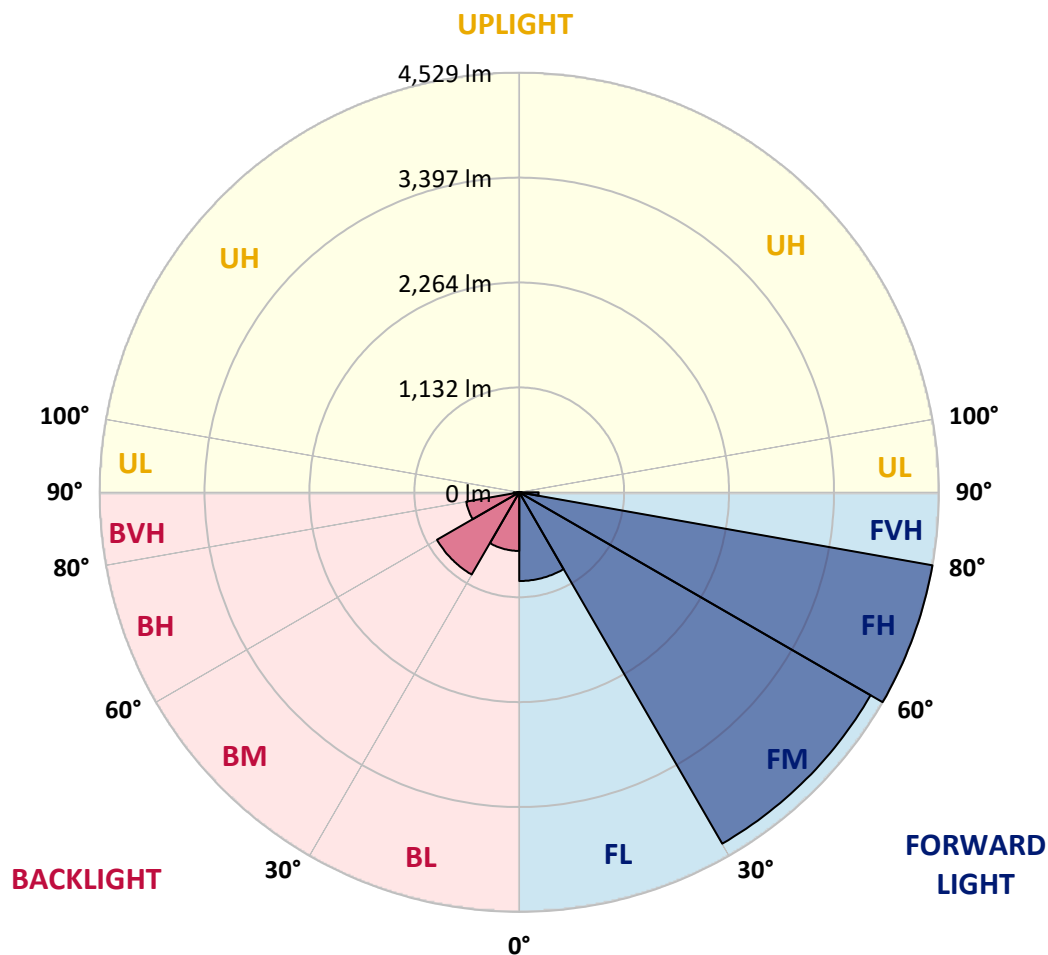
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 957.5  | 7.7       |                         |      |         |
| FM   | (30°-60°)   | 4378.5 | 35.4      |                         |      |         |
| FH   | (60°-80°)   | 4528.8 | 36.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 210.1  | 1.7       |                         |      | G2/225  |
| BL   | (0°-30°)    | 632.9  | 5.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1024.7 | 8.3       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 580.9  | 4.7       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 61.6   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 54°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2182.7 | 2182.7 | 2182.7 | 2182.7 | 2182.7 | 2182.7 | 2182.7 | 2182.7 | 2182.7 | 2182.7 | 2182.7 |
| 2.5°  | 2111.6 | 2106.6 | 2112.9 | 2121.7 | 2131.3 | 2144.2 | 2151.8 | 2155.1 | 2168.1 | 2173.1 | 2183.9 |
| 5°    | 2013.8 | 2011.3 | 2021.8 | 2036.8 | 2058.1 | 2088.2 | 2112.5 | 2117.1 | 2151.3 | 2175.6 | 2197.7 |
| 7.5°  | 1942.8 | 1942.8 | 1954.9 | 1972.9 | 1996.7 | 2037.2 | 2071.5 | 2077.8 | 2135.9 | 2188.1 | 2229.1 |
| 10°   | 1886.3 | 1888.4 | 1902.6 | 1924.0 | 1952.0 | 1995.0 | 2040.6 | 2047.7 | 2131.7 | 2217.4 | 2282.6 |
| 12.5° | 1848.7 | 1853.7 | 1866.7 | 1885.9 | 1920.6 | 1972.9 | 2030.5 | 2040.2 | 2140.5 | 2259.2 | 2346.9 |
| 15°   | 1872.5 | 1880.9 | 1882.2 | 1890.1 | 1909.3 | 1966.2 | 2036.4 | 2046.4 | 2159.3 | 2301.8 | 2420.1 |
| 17.5° | 1977.0 | 1980.0 | 1967.0 | 1950.3 | 1941.1 | 1977.5 | 2053.9 | 2064.4 | 2181.8 | 2344.0 | 2490.3 |
| 20°   | 2135.9 | 2134.2 | 2106.2 | 2061.1 | 2014.2 | 2020.1 | 2082.8 | 2093.7 | 2212.4 | 2381.2 | 2560.5 |
| 22.5° | 2336.5 | 2330.6 | 2287.6 | 2204.4 | 2124.6 | 2091.1 | 2133.4 | 2142.6 | 2258.3 | 2434.3 | 2635.8 |
| 25°   | 2579.8 | 2566.8 | 2510.0 | 2398.4 | 2280.9 | 2194.8 | 2209.4 | 2218.2 | 2325.2 | 2493.7 | 2704.7 |
| 27.5° | 2836.4 | 2823.4 | 2751.1 | 2616.1 | 2459.8 | 2325.6 | 2314.3 | 2321.9 | 2401.3 | 2537.5 | 2755.7 |
| 30°   | 3104.7 | 3091.0 | 3024.9 | 2873.6 | 2649.6 | 2461.1 | 2412.2 | 2415.1 | 2454.8 | 2561.4 | 2797.5 |
| 32.5° | 3374.3 | 3361.4 | 3287.4 | 3111.8 | 2855.6 | 2606.5 | 2482.8 | 2479.0 | 2487.0 | 2586.0 | 2844.8 |
| 35°   | 3647.7 | 3652.7 | 3566.2 | 3371.8 | 3083.8 | 2768.3 | 2566.4 | 2558.4 | 2540.9 | 2636.6 | 2911.6 |
| 37.5° | 3940.3 | 3936.9 | 3824.9 | 3621.8 | 3322.5 | 2943.8 | 2686.3 | 2685.1 | 2624.5 | 2732.3 | 3016.6 |
| 40°   | 4135.9 | 4138.0 | 4069.9 | 3877.6 | 3563.7 | 3138.2 | 2840.2 | 2837.2 | 2757.8 | 2875.7 | 3154.1 |
| 42.5° | 4212.4 | 4226.2 | 4243.7 | 4121.7 | 3816.1 | 3363.5 | 3023.7 | 3019.5 | 2943.8 | 3081.3 | 3315.8 |
| 45°   | 4217.8 | 4245.4 | 4354.1 | 4338.6 | 4071.9 | 3621.4 | 3258.1 | 3246.4 | 3192.1 | 3354.7 | 3508.9 |
| 47.5° | 4171.0 | 4199.4 | 4380.0 | 4467.8 | 4300.6 | 3893.5 | 3532.3 | 3523.1 | 3476.3 | 3696.6 | 3717.9 |
| 50°   | 4068.6 | 4095.8 | 4326.5 | 4530.9 | 4488.7 | 4155.1 | 3848.3 | 3824.1 | 3799.0 | 4091.6 | 3957.0 |
| 52.5° | 3876.8 | 3929.0 | 4255.0 | 4545.9 | 4601.1 | 4387.5 | 4180.6 | 4164.7 | 4178.5 | 4508.3 | 4196.5 |
| 55°   | 3422.4 | 3480.9 | 4070.7 | 4533.4 | 4684.3 | 4582.7 | 4512.9 | 4512.1 | 4583.6 | 4945.5 | 4453.6 |
| 57.5° | 3167.9 | 3209.2 | 3695.3 | 4512.1 | 4782.9 | 4776.7 | 4841.9 | 4849.8 | 4989.0 | 5421.6 | 4722.7 |
| 60°   | 3024.1 | 3067.5 | 3505.2 | 4433.1 | 4935.9 | 5027.4 | 5177.5 | 5193.4 | 5401.1 | 5948.7 | 5046.7 |
| 62.5° | 2893.2 | 2940.9 | 3387.3 | 4272.2 | 5116.1 | 5386.1 | 5579.6 | 5593.8 | 5837.5 | 6490.4 | 5359.7 |
| 65°   | 2669.6 | 2723.5 | 3214.7 | 4166.4 | 5279.9 | 5853.8 | 6090.8 | 6100.4 | 6338.6 | 7058.0 | 5599.2 |
| 67.5° | 2353.6 | 2403.0 | 2889.1 | 3932.8 | 5401.1 | 6421.8 | 6770.4 | 6775.8 | 6835.6 | 7458.8 | 5721.7 |
| 70°   | 1984.6 | 2003.4 | 2425.1 | 3450.4 | 5257.8 | 6953.1 | 7515.3 | 7516.5 | 7288.7 | 7715.5 | 5701.6 |
| 72.5° | 1394.4 | 1438.7 | 1760.5 | 2611.9 | 4518.3 | 6888.3 | 7901.9 | 7916.1 | 7499.4 | 7585.9 | 5246.0 |
| 75°   | 855.2  | 902.0  | 1104.3 | 1582.9 | 2866.5 | 5417.4 | 7300.8 | 7399.5 | 7104.4 | 6763.7 | 4285.5 |
| 77.5° | 571.8  | 589.3  | 720.6  | 922.9  | 1298.7 | 3116.9 | 5613.0 | 5798.6 | 5901.9 | 4932.6 | 2740.7 |
| 80°   | 318.9  | 352.4  | 477.7  | 573.5  | 577.6  | 1238.5 | 3365.6 | 3409.0 | 3283.6 | 1964.1 | 845.6  |
| 82.5° | 168.9  | 187.3  | 318.9  | 336.9  | 315.2  | 414.6  | 1254.4 | 1255.6 | 1049.1 | 526.7  | 251.2  |
| 85°   | 130.8  | 146.3  | 218.6  | 205.6  | 160.9  | 183.9  | 413.8  | 436.4  | 357.0  | 215.7  | 81.9   |
| 87.5° | 65.2   | 81.1   | 148.4  | 130.4  | 63.1   | 52.7   | 148.0  | 158.0  | 140.9  | 84.4   | 29.7   |
| 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°    | 2182.7 | 2182.7 | 2182.7 | 2182.7 | 2182.7 | 2182.7 | 2182.7 | 2182.7 | 2182.7 | 2182.7 | 2182.7 |
| 2.5°  | 2188.1 | 2191.9 | 2196.5 | 2191.5 | 2189.8 | 2183.1 | 2171.8 | 2169.3 | 2163.5 | 2163.9 | 2167.2 |
| 5°    | 2207.3 | 2213.6 | 2211.1 | 2191.9 | 2168.9 | 2136.7 | 2103.3 | 2074.8 | 2056.0 | 2054.8 | 2053.5 |
| 7.5°  | 2244.1 | 2248.3 | 2228.7 | 2173.9 | 2109.5 | 2035.1 | 1964.9 | 1903.5 | 1866.3 | 1857.1 | 1855.0 |
| 10°   | 2301.8 | 2301.0 | 2247.1 | 2136.7 | 2008.4 | 1875.5 | 1762.6 | 1677.3 | 1627.6 | 1613.0 | 1609.2 |
| 12.5° | 2366.2 | 2356.6 | 2253.3 | 2069.0 | 1865.4 | 1681.1 | 1538.2 | 1443.3 | 1391.5 | 1374.7 | 1370.6 |
| 15°   | 2432.6 | 2408.8 | 2237.9 | 1967.8 | 1689.9 | 1471.7 | 1321.6 | 1233.9 | 1205.9 | 1196.7 | 1195.0 |
| 17.5° | 2494.5 | 2448.5 | 2193.6 | 1830.7 | 1489.7 | 1263.1 | 1146.1 | 1111.0 | 1117.7 | 1129.8 | 1130.2 |
| 20°   | 2555.1 | 2475.3 | 2122.5 | 1657.7 | 1278.6 | 1091.3 | 1051.6 | 1077.5 | 1109.3 | 1134.0 | 1137.3 |
| 22.5° | 2614.9 | 2494.1 | 2031.0 | 1457.9 | 1089.7 | 994.8  | 1022.8 | 1070.0 | 1106.4 | 1133.1 | 1137.7 |
| 25°   | 2665.0 | 2498.7 | 1904.7 | 1244.7 | 958.4  | 958.4  | 1009.0 | 1053.7 | 1089.7 | 1116.0 | 1120.6 |
| 27.5° | 2683.4 | 2467.7 | 1726.7 | 1047.5 | 892.4  | 941.7  | 989.8  | 1027.0 | 1057.5 | 1085.5 | 1090.5 |
| 30°   | 2690.5 | 2410.5 | 1521.0 | 889.0  | 865.2  | 923.7  | 963.9  | 995.6  | 1024.5 | 1050.8 | 1055.4 |
| 32.5° | 2691.8 | 2341.5 | 1302.8 | 799.2  | 846.4  | 904.9  | 931.7  | 959.7  | 990.6  | 1001.1 | 1002.7 |
| 35°   | 2699.7 | 2260.0 | 1073.0 | 753.2  | 828.9  | 887.4  | 908.7  | 928.7  | 878.6  | 882.4  | 885.7  |
| 37.5° | 2722.7 | 2179.3 | 880.7  | 727.3  | 817.6  | 878.2  | 903.7  | 830.9  | 791.7  | 782.5  | 781.2  |
| 40°   | 2765.8 | 2093.2 | 738.2  | 706.4  | 813.4  | 882.8  | 871.5  | 775.8  | 708.1  | 657.5  | 650.0  |
| 42.5° | 2825.5 | 2000.4 | 647.0  | 692.6  | 816.3  | 904.9  | 826.8  | 722.7  | 610.2  | 577.6  | 573.5  |
| 45°   | 2892.8 | 1903.1 | 597.7  | 683.0  | 826.3  | 922.1  | 817.6  | 652.0  | 564.7  | 540.0  | 537.9  |
| 47.5° | 2958.0 | 1783.9 | 572.2  | 678.8  | 840.1  | 908.3  | 778.7  | 630.3  | 543.0  | 530.0  | 531.3  |
| 50°   | 3032.9 | 1676.5 | 556.7  | 674.2  | 852.3  | 899.5  | 734.8  | 619.0  | 534.6  | 550.5  | 567.2  |
| 52.5° | 3096.0 | 1565.3 | 543.0  | 665.0  | 856.9  | 884.0  | 723.5  | 621.1  | 534.6  | 565.1  | 581.0  |
| 55°   | 3170.8 | 1481.3 | 527.1  | 645.8  | 848.1  | 840.1  | 715.6  | 633.7  | 540.9  | 521.6  | 523.3  |
| 57.5° | 3267.3 | 1453.7 | 509.5  | 615.7  | 818.8  | 776.2  | 711.8  | 645.8  | 537.1  | 525.0  | 529.2  |
| 60°   | 3401.1 | 1483.0 | 502.4  | 576.4  | 773.3  | 726.0  | 712.2  | 639.5  | 510.8  | 489.9  | 490.3  |
| 62.5° | 3528.6 | 1515.6 | 502.0  | 551.7  | 717.3  | 681.3  | 702.6  | 619.0  | 497.4  | 485.3  | 489.9  |
| 65°   | 3570.4 | 1482.6 | 481.9  | 524.1  | 654.1  | 627.8  | 685.1  | 597.3  | 487.4  | 469.0  | 468.1  |
| 67.5° | 3514.4 | 1380.2 | 441.4  | 479.4  | 581.8  | 565.5  | 662.1  | 571.4  | 471.5  | 456.4  | 453.9  |
| 70°   | 3348.0 | 1151.5 | 391.2  | 420.5  | 499.5  | 495.3  | 625.7  | 541.3  | 450.2  | 437.2  | 426.3  |
| 72.5° | 2900.4 | 820.5  | 329.8  | 349.8  | 406.7  | 420.1  | 575.6  | 502.0  | 420.1  | 392.1  | 375.3  |
| 75°   | 2382.1 | 607.3  | 270.9  | 275.0  | 308.9  | 345.3  | 506.6  | 456.0  | 384.5  | 336.9  | 323.9  |
| 77.5° | 1458.7 | 371.6  | 215.7  | 217.3  | 221.5  | 275.4  | 417.1  | 404.6  | 339.4  | 280.9  | 271.7  |
| 80°   | 472.3  | 202.7  | 155.9  | 163.8  | 151.3  | 201.9  | 322.7  | 344.4  | 291.3  | 234.9  | 224.9  |
| 82.5° | 179.7  | 118.3  | 105.3  | 110.8  | 104.9  | 135.4  | 235.3  | 275.9  | 238.7  | 193.1  | 157.2  |
| 85°   | 86.9   | 66.9   | 62.3   | 69.8   | 64.8   | 69.4   | 150.5  | 203.1  | 181.0  | 125.8  | 117.0  |
| 87.5° | 30.9   | 29.7   | 23.8   | 32.2   | 27.6   | 24.7   | 46.0   | 102.4  | 119.5  | 86.5   | 77.3   |
| 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)