

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: P484393

Luminaire Tested: **IFLD-S-SA2C-740-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484393  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-740-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (32) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

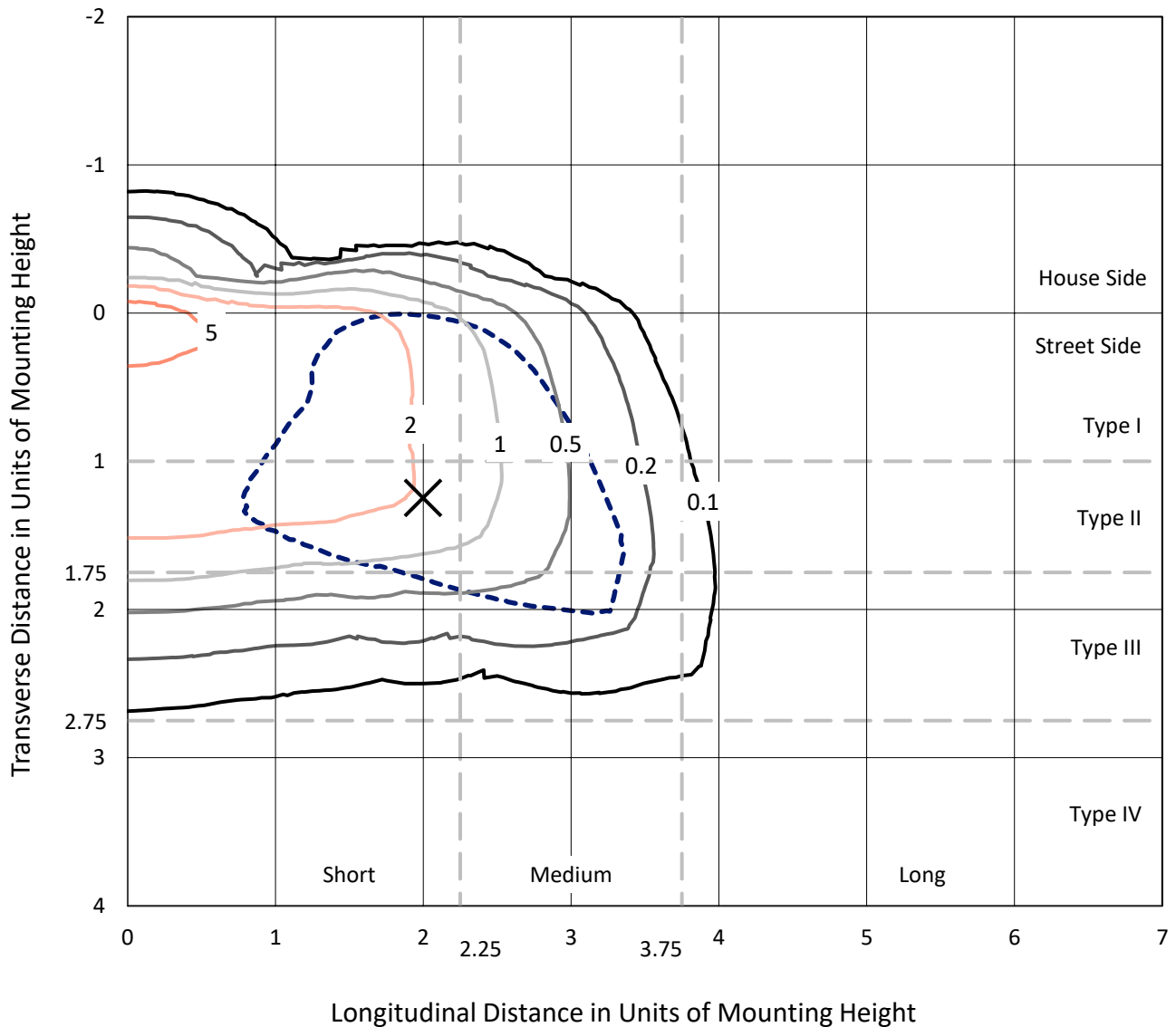
Lumens per Lamp: N/A  
Luminaire Lumens: 11886.6 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2  
Input Voltage (V): 120  
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

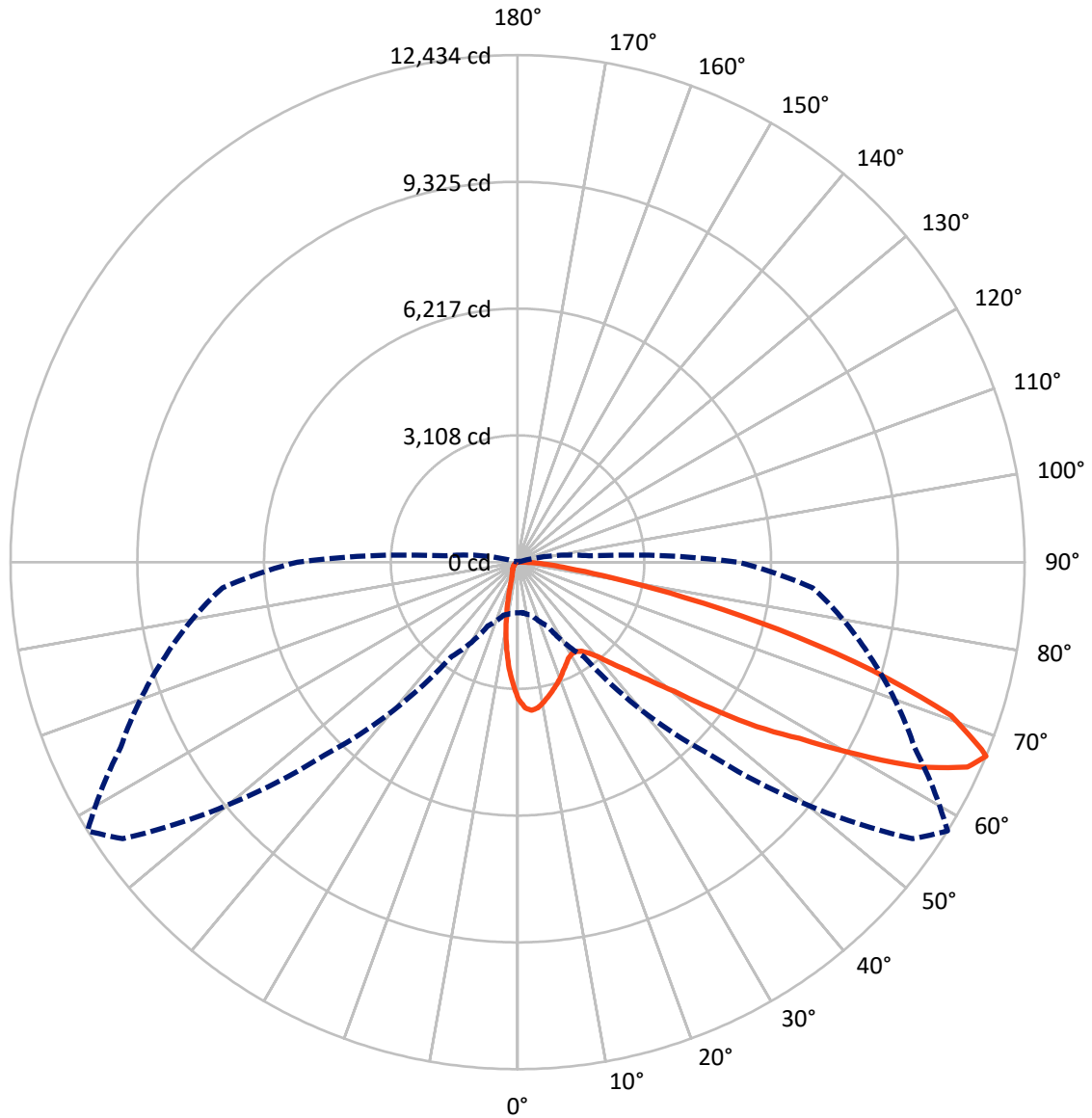
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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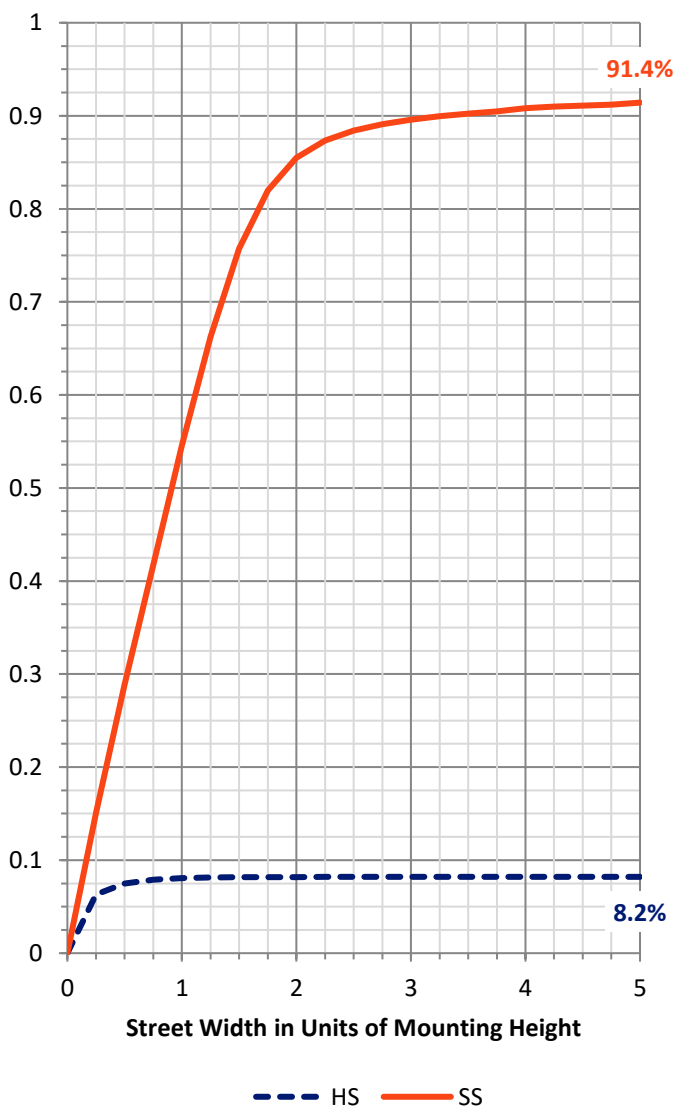
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 982.5    | 0.0    | 982.5   |
|                    | % Fixture | 8.3      | 0.0    | 8.3     |
| <b>Street Side</b> | Lumens    | 10904.1  | 0.0    | 10904.1 |
|                    | % Fixture | 91.7     | 0.0    | 91.7    |
| <b>Total</b>       | Lumens    | 11886.6  | 0.0    | 11886.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 267.2   | 2.2       |
| 10°-20°   | 554.2   | 4.7       |
| 20°-30°   | 735.4   | 6.2       |
| 30°-40°   | 1019.0  | 8.6       |
| 40°-50°   | 1662.6  | 14.0      |
| 50°-60°   | 2922.4  | 24.6      |
| 60°-70°   | 3236.8  | 27.2      |
| 70°-80°   | 1341.3  | 11.3      |
| 80°-90°   | 147.7   | 1.2       |
| 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°    | 11886.6 | 100.0     |
| 0°-180°   | 11886.6 | 100.0     |

**Coefficient of Utilization**



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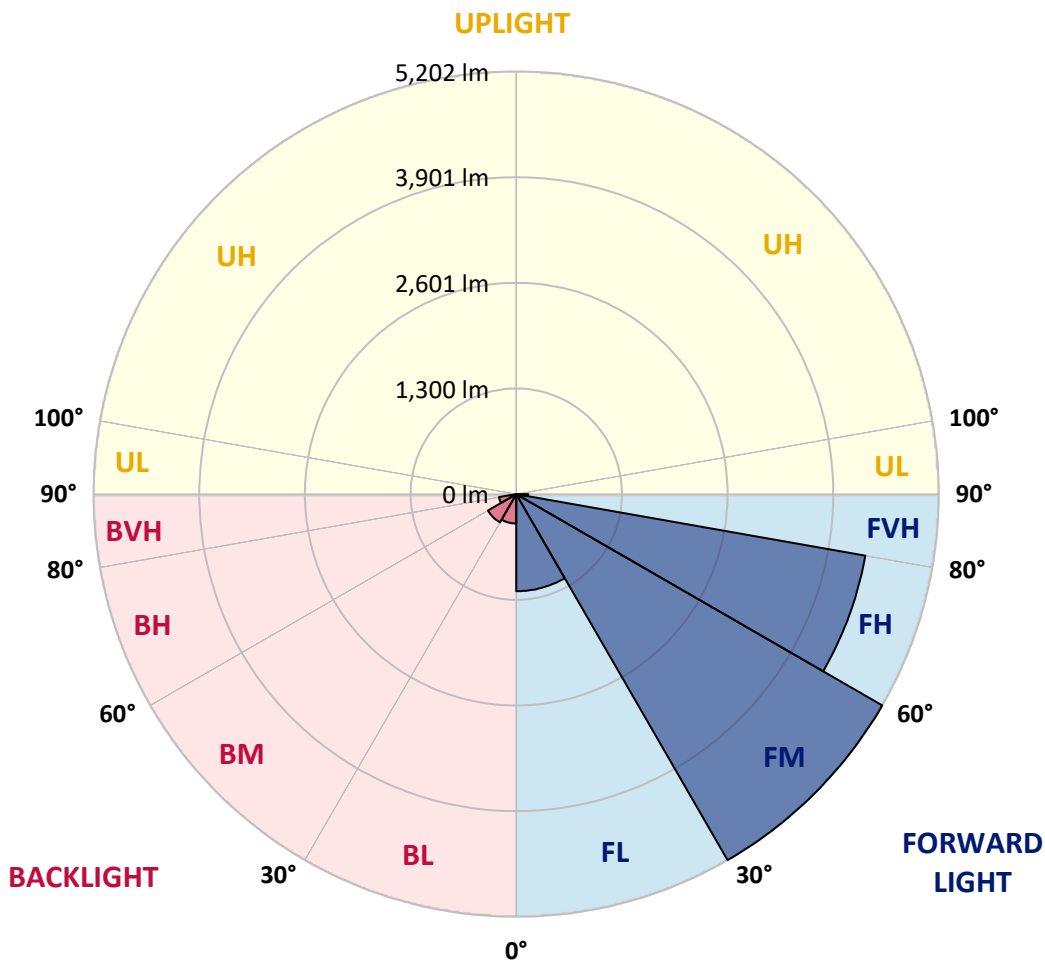
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1194.9 | 10.1      |                         |      |         |
| FM (30°-60°)   | 5201.8 | 43.8      |                         |      |         |
| FH (60°-80°)   | 4362.1 | 36.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 145.2  | 1.2       |                         |      | G2/225  |
| BL (0°-30°)    | 361.9  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 402.2  | 3.4       | B1/1000                 |      |         |
| BH (60°-80°)   | 216.0  | 1.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.4    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 58°     | 65°     | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
| 0°    | 3367.6 | 3367.6 | 3367.6 | 3367.6 | 3367.6 | 3367.6 | 3367.6  | 3367.6  | 3367.6  | 3367.6 | 3367.6 |
| 2.5°  | 3664.3 | 3676.9 | 3688.0 | 3667.5 | 3684.8 | 3659.6 | 3594.9  | 3580.7  | 3569.6  | 3473.4 | 3418.1 |
| 5°    | 3662.7 | 3648.5 | 3659.6 | 3669.1 | 3645.4 | 3664.3 | 3648.5  | 3650.1  | 3607.5  | 3520.7 | 3366.1 |
| 7.5°  | 3418.1 | 3411.8 | 3418.1 | 3463.9 | 3516.0 | 3557.0 | 3580.7  | 3604.3  | 3575.9  | 3446.5 | 3296.6 |
| 10°   | 3088.3 | 3119.9 | 3137.2 | 3219.3 | 3299.8 | 3375.5 | 3449.7  | 3493.9  | 3486.0  | 3433.9 | 3220.9 |
| 12.5° | 2857.9 | 2848.4 | 2911.6 | 2965.2 | 3045.7 | 3198.8 | 3328.2  | 3369.2  | 3416.6  | 3344.0 | 3121.5 |
| 15°   | 2644.9 | 2619.6 | 2657.5 | 2750.6 | 2887.9 | 3009.4 | 3190.9  | 3252.4  | 3312.4  | 3331.3 | 3067.8 |
| 17.5° | 2441.3 | 2453.9 | 2493.4 | 2577.0 | 2706.4 | 2876.9 | 3047.3  | 3135.7  | 3279.3  | 3254.0 | 2987.3 |
| 20°   | 2343.5 | 2370.3 | 2384.5 | 2427.1 | 2517.0 | 2687.5 | 2941.6  | 3012.6  | 3165.6  | 3252.4 | 2908.4 |
| 22.5° | 2348.2 | 2348.2 | 2315.1 | 2340.3 | 2422.4 | 2554.9 | 2797.9  | 2876.9  | 3119.9  | 3170.4 | 2837.4 |
| 25°   | 2398.7 | 2367.1 | 2368.7 | 2338.7 | 2373.4 | 2446.0 | 2668.5  | 2764.8  | 3026.8  | 3178.3 | 2799.5 |
| 27.5° | 2436.6 | 2430.3 | 2420.8 | 2412.9 | 2368.7 | 2379.8 | 2583.3  | 2662.2  | 2990.5  | 3168.8 | 2741.1 |
| 30°   | 2573.9 | 2545.5 | 2536.0 | 2518.6 | 2460.2 | 2406.6 | 2515.5  | 2614.9  | 2962.1  | 3190.9 | 2708.0 |
| 32.5° | 2689.1 | 2693.8 | 2701.7 | 2651.2 | 2600.7 | 2468.1 | 2534.4  | 2613.3  | 2941.6  | 3241.4 | 2741.1 |
| 35°   | 2834.2 | 2854.8 | 2857.9 | 2842.1 | 2788.5 | 2657.5 | 2613.3  | 2681.2  | 2976.3  | 3331.3 | 2744.3 |
| 37.5° | 3055.2 | 3033.1 | 3093.0 | 3099.4 | 3061.5 | 2887.9 | 2796.4  | 2823.2  | 3078.8  | 3474.9 | 2864.2 |
| 40°   | 3198.8 | 3225.6 | 3337.7 | 3407.1 | 3342.4 | 3184.6 | 3061.5  | 3056.8  | 3227.2  | 3700.6 | 3012.6 |
| 42.5° | 3358.2 | 3418.1 | 3541.2 | 3691.1 | 3683.3 | 3536.5 | 3411.8  | 3391.3  | 3490.7  | 4027.3 | 3247.7 |
| 45°   | 3575.9 | 3629.6 | 3801.6 | 4027.3 | 4150.4 | 4025.7 | 3837.9  | 3796.9  | 3811.1  | 4472.3 | 3648.5 |
| 47.5° | 3937.3 | 3923.1 | 4170.9 | 4393.4 | 4595.4 | 4499.1 | 4418.6  | 4298.7  | 4287.7  | 4996.2 | 4202.4 |
| 50°   | 4346.0 | 4342.9 | 4563.8 | 4816.3 | 5049.9 | 5237.7 | 5103.5  | 4972.5  | 4975.7  | 5707.9 | 4854.2 |
| 52.5° | 4734.3 | 4795.8 | 5034.1 | 5285.0 | 5685.8 | 5887.8 | 6017.2  | 5965.2  | 5714.2  | 6343.9 | 5551.7 |
| 55°   | 4939.4 | 4993.1 | 5229.8 | 5662.2 | 6295.0 | 6814.2 | 7164.5  | 7120.3  | 6635.9  | 7060.4 | 6239.8 |
| 57.5° | 4745.3 | 4781.6 | 5102.0 | 5668.5 | 6721.1 | 7879.4 | 8215.5  | 8160.3  | 7589.0  | 7608.0 | 7071.4 |
| 60°   | 3932.6 | 3989.4 | 4466.0 | 5130.4 | 6555.4 | 8700.0 | 9662.6  | 9579.0  | 8457.0  | 8300.7 | 7606.4 |
| 62.5° | 2723.8 | 2761.7 | 3153.0 | 3979.9 | 5769.5 | 8985.6 | 11029.2 | 11075.0 | 9372.3  | 8840.4 | 7765.8 |
| 65°   | 1764.3 | 1761.1 | 1985.2 | 2545.5 | 4088.8 | 8120.8 | 11837.2 | 12121.3 | 10256.0 | 8922.5 | 7716.8 |
| 67°   | 1246.7 | 1242.0 | 1347.7 | 1726.4 | 2831.1 | 6691.1 | 11823.0 | 12433.7 | 10735.7 | 8946.2 | 7263.9 |
| 67.5° | 1150.4 | 1145.7 | 1246.7 | 1587.6 | 2554.9 | 6222.4 | 11646.3 | 12272.8 | 10904.6 | 8913.0 | 7065.1 |
| 70°   | 893.2  | 880.6  | 918.4  | 1093.6 | 1488.1 | 4024.1 | 9967.2  | 11273.8 | 10554.2 | 8086.1 | 5641.7 |
| 72.5° | 645.4  | 659.6  | 719.6  | 897.9  | 1167.8 | 2165.1 | 7596.9  | 9116.6  | 8815.2  | 6094.6 | 3585.4 |
| 75°   | 449.8  | 462.4  | 558.6  | 732.2  | 1071.5 | 1313.0 | 5136.7  | 6612.2  | 6140.3  | 3364.5 | 1527.6 |
| 77.5° | 235.1  | 250.9  | 356.6  | 585.5  | 973.7  | 1016.3 | 3069.4  | 4193.0  | 3254.0  | 1197.8 | 421.3  |
| 80°   | 108.9  | 116.8  | 178.3  | 415.0  | 814.3  | 893.2  | 1789.5  | 2332.4  | 1301.9  | 268.3  | 145.2  |
| 82.5° | 47.3   | 52.1   | 82.1   | 238.3  | 577.6  | 781.2  | 1107.8  | 1223.0  | 471.8   | 86.8   | 90.0   |
| 85°   | 9.5    | 11.0   | 31.6   | 126.2  | 279.3  | 473.4  | 778.0   | 725.9   | 236.7   | 42.6   | 71.0   |
| 87.5° | 0.0    | 0.0    | 7.9    | 36.3   | 75.7   | 140.4  | 329.8   | 329.8   | 72.6    | 22.1   | 26.8   |
| 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°    | 3367.6 | 3367.6 | 3367.6 | 3367.6 | 3367.6 | 3367.6 | 3367.6 | 3367.6 | 3367.6 | 3367.6 | 3367.6 |
| 2.5°  | 3369.2 | 3312.4 | 3187.7 | 3072.5 | 2990.5 | 2897.4 | 2774.3 | 2719.0 | 2698.5 | 2670.1 | 2627.5 |
| 5°    | 3280.8 | 3211.4 | 2998.4 | 2783.7 | 2548.6 | 2370.3 | 2180.9 | 2070.4 | 1986.8 | 1934.7 | 1917.4 |
| 7.5°  | 3156.2 | 3014.1 | 2726.9 | 2382.9 | 2078.3 | 1813.2 | 1526.0 | 1331.9 | 1207.2 | 1156.7 | 1109.4 |
| 10°   | 3056.8 | 2872.1 | 2435.0 | 2007.3 | 1601.8 | 1213.5 | 890.0  | 719.6  | 590.2  | 541.3  | 535.0  |
| 12.5° | 2927.3 | 2706.4 | 2162.0 | 1623.9 | 1114.1 | 722.8  | 492.4  | 427.7  | 391.4  | 385.1  | 380.3  |
| 15°   | 2820.0 | 2556.5 | 1903.2 | 1257.7 | 721.2  | 451.3  | 383.5  | 367.7  | 358.2  | 355.1  | 356.6  |
| 17.5° | 2747.4 | 2395.5 | 1638.1 | 915.3  | 475.0  | 369.3  | 353.5  | 344.0  | 339.3  | 337.7  | 333.0  |
| 20°   | 2603.8 | 2259.8 | 1376.1 | 640.7  | 370.9  | 340.9  | 328.2  | 320.4  | 315.6  | 314.0  | 312.5  |
| 22.5° | 2521.8 | 2087.8 | 1114.1 | 446.6  | 329.8  | 309.3  | 299.8  | 293.5  | 285.6  | 280.9  | 279.3  |
| 25°   | 2439.7 | 1961.6 | 880.6  | 347.2  | 299.8  | 285.6  | 271.4  | 263.5  | 250.9  | 244.6  | 243.0  |
| 27.5° | 2343.5 | 1836.9 | 678.6  | 301.4  | 269.9  | 255.6  | 241.4  | 228.8  | 213.0  | 206.7  | 203.6  |
| 30°   | 2288.2 | 1715.4 | 511.3  | 269.9  | 247.8  | 228.8  | 211.5  | 195.7  | 178.3  | 167.3  | 164.1  |
| 32.5° | 2259.8 | 1604.9 | 383.5  | 246.2  | 224.1  | 203.6  | 181.5  | 162.5  | 146.8  | 137.3  | 135.7  |
| 35°   | 2225.1 | 1497.6 | 301.4  | 224.1  | 202.0  | 179.9  | 157.8  | 138.9  | 123.1  | 115.2  | 112.0  |
| 37.5° | 2261.4 | 1434.5 | 250.9  | 206.7  | 184.6  | 159.4  | 135.7  | 116.8  | 104.2  | 96.3   | 94.7   |
| 40°   | 2360.8 | 1382.4 | 217.8  | 190.9  | 167.3  | 140.4  | 118.4  | 99.4   | 88.4   | 82.1   | 78.9   |
| 42.5° | 2513.9 | 1382.4 | 197.3  | 175.2  | 151.5  | 123.1  | 101.0  | 86.8   | 75.7   | 69.4   | 67.9   |
| 45°   | 2791.6 | 1425.0 | 179.9  | 159.4  | 132.6  | 105.7  | 86.8   | 72.6   | 61.5   | 55.2   | 53.7   |
| 47.5° | 3181.4 | 1522.9 | 165.7  | 145.2  | 118.4  | 93.1   | 75.7   | 61.5   | 50.5   | 44.2   | 42.6   |
| 50°   | 3705.3 | 1745.4 | 151.5  | 127.8  | 105.7  | 80.5   | 63.1   | 48.9   | 39.5   | 33.1   | 31.6   |
| 52.5° | 4358.7 | 2061.0 | 137.3  | 118.4  | 90.0   | 67.9   | 50.5   | 39.5   | 30.0   | 25.2   | 23.7   |
| 55°   | 5049.9 | 2447.6 | 119.9  | 105.7  | 77.3   | 56.8   | 41.0   | 30.0   | 22.1   | 18.9   | 17.4   |
| 57.5° | 5745.8 | 2745.9 | 105.7  | 91.5   | 63.1   | 45.8   | 33.1   | 23.7   | 15.8   | 12.6   | 11.0   |
| 60°   | 6115.1 | 2774.3 | 91.5   | 75.7   | 50.5   | 36.3   | 25.2   | 17.4   | 11.0   | 7.9    | 6.3    |
| 62.5° | 6171.9 | 2521.8 | 78.9   | 61.5   | 41.0   | 28.4   | 17.4   | 12.6   | 6.3    | 3.2    | 3.2    |
| 65°   | 5879.9 | 2102.0 | 67.9   | 48.9   | 31.6   | 20.5   | 12.6   | 7.9    | 3.2    | 1.6    | 0.0    |
| 67°   | 5406.5 | 1761.1 | 58.4   | 41.0   | 25.2   | 15.8   | 9.5    | 4.7    | 1.6    | 0.0    | 0.0    |
| 67.5° | 5223.5 | 1666.5 | 55.2   | 37.9   | 23.7   | 14.2   | 7.9    | 4.7    | 1.6    | 0.0    | 0.0    |
| 70°   | 4054.1 | 1189.9 | 41.0   | 26.8   | 17.4   | 11.0   | 6.3    | 3.2    | 0.0    | 0.0    | 0.0    |
| 72.5° | 2483.9 | 695.9  | 31.6   | 18.9   | 12.6   | 7.9    | 4.7    | 1.6    | 0.0    | 0.0    | 0.0    |
| 75°   | 1041.5 | 239.9  | 26.8   | 14.2   | 9.5    | 4.7    | 3.2    | 1.6    | 0.0    | 0.0    | 0.0    |
| 77.5° | 271.4  | 90.0   | 18.9   | 9.5    | 6.3    | 4.7    | 3.2    | 1.6    | 0.0    | 0.0    | 0.0    |
| 80°   | 110.5  | 41.0   | 12.6   | 6.3    | 6.3    | 4.7    | 3.2    | 1.6    | 0.0    | 0.0    | 0.0    |
| 82.5° | 72.6   | 18.9   | 7.9    | 6.3    | 4.7    | 3.2    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 55.2   | 11.0   | 4.7    | 4.7    | 3.2    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 23.7   | 6.3    | 4.7    | 3.2    | 3.2    | 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    |

(END OF REPORT)