

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: P480751

Luminaire Tested: **IFLD-M-SA4B-722-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480751  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-722-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

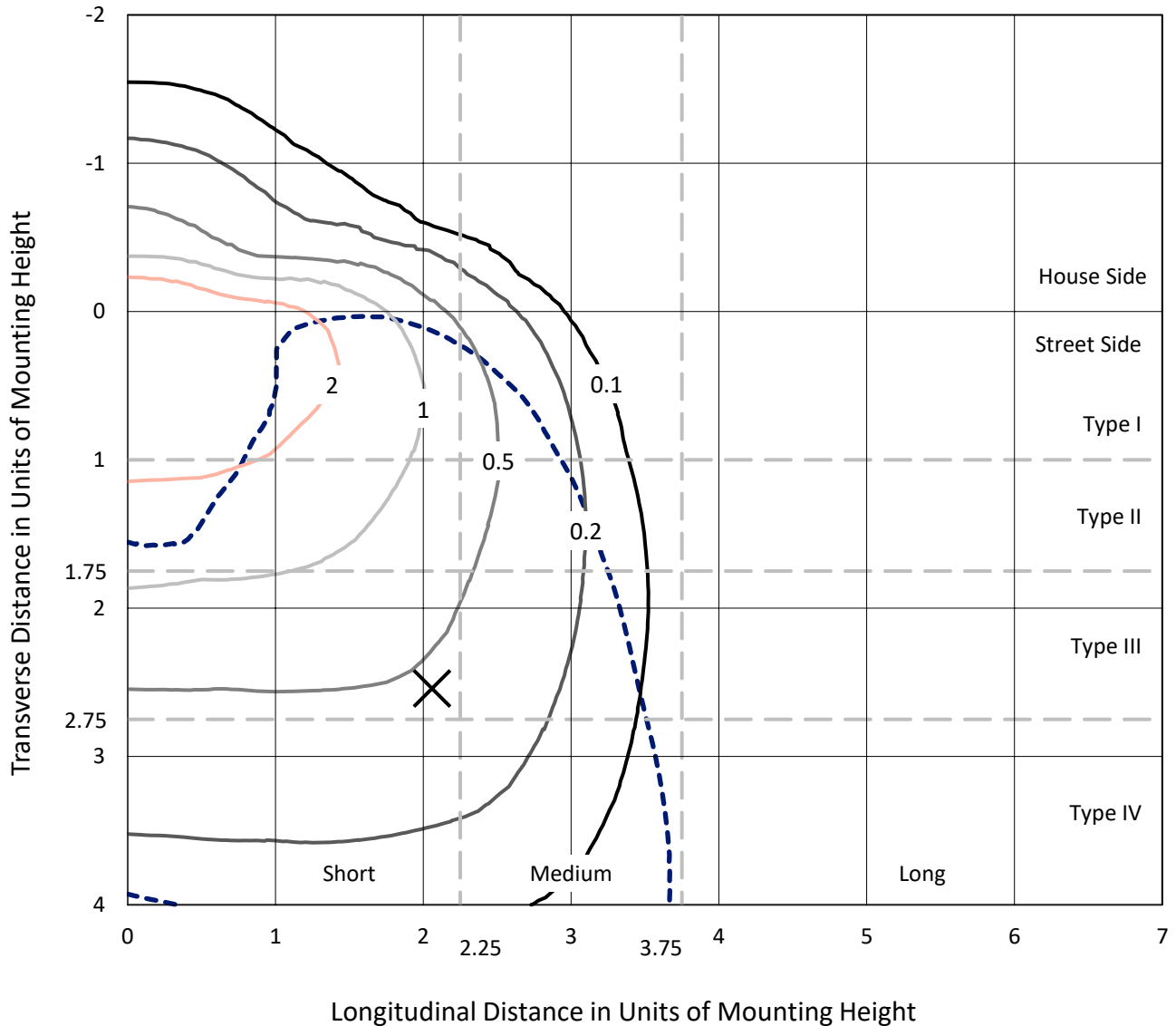
Lumens per Lamp: N/A  
Luminaire Lumens: 16273.1 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 166.1  
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

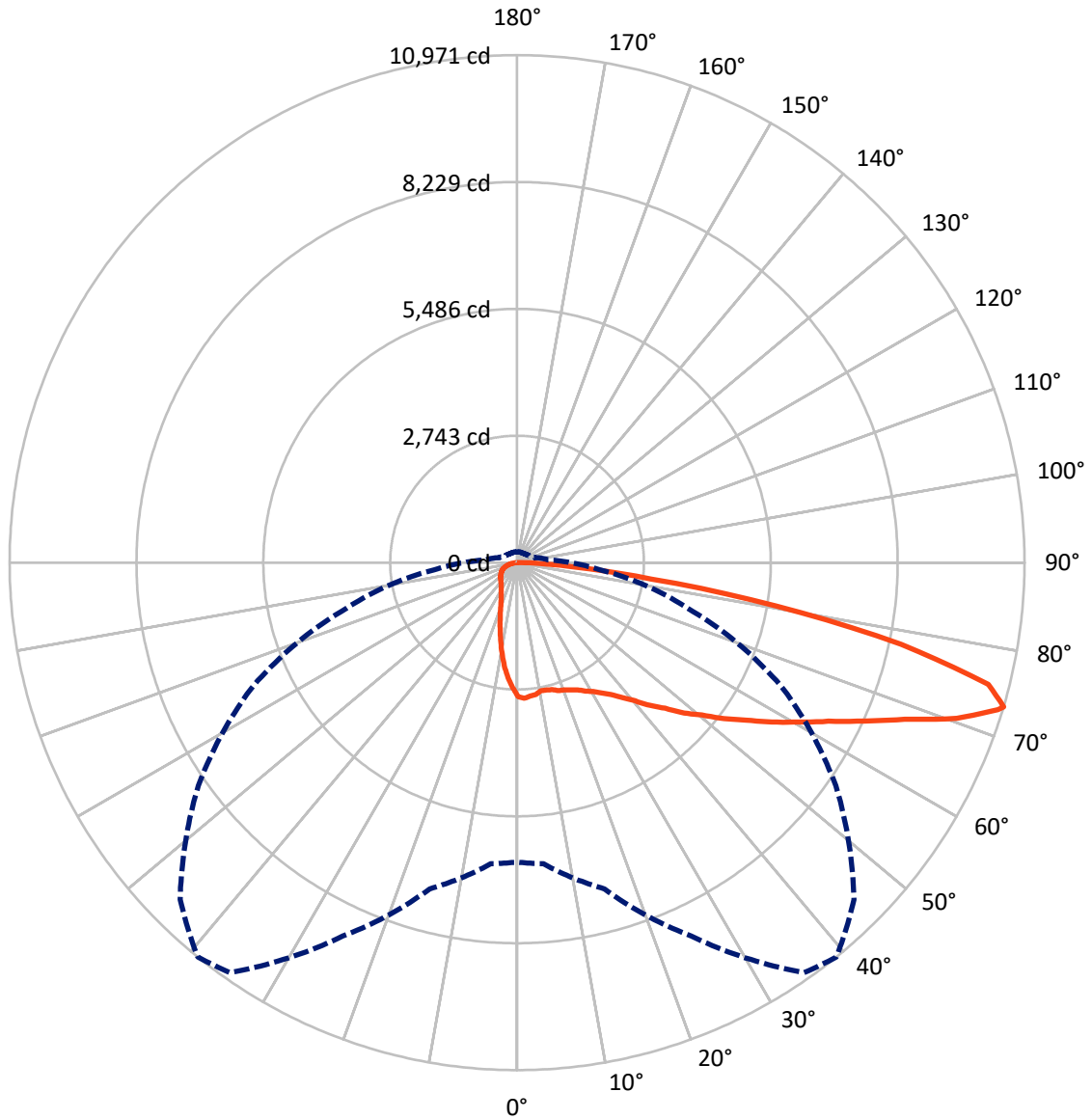
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2287.5   | 0.0    | 2287.5  |
|                    | % Fixture | 14.1     | 0.0    | 14.1    |
| <b>Street Side</b> | Lumens    | 13985.5  | 0.0    | 13985.5 |
|                    | % Fixture | 85.9     | 0.0    | 85.9    |
| <b>Total</b>       | Lumens    | 16273.1  | 0.0    | 16273.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 251.5   | 1.5       |
| 10°-20°   | 639.2   | 3.9       |
| 20°-30°   | 976.8   | 6.0       |
| 30°-40°   | 1424.2  | 8.8       |
| 40°-50°   | 2152.2  | 13.2      |
| 50°-60°   | 3116.5  | 19.2      |
| 60°-70°   | 3959.6  | 24.3      |
| 70°-80°   | 3209.9  | 19.7      |
| 80°-90°   | 543.1   | 3.3       |
| 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°    | 16273.1 | 100.0     |
| 0°-180°   | 16273.1 | 100.0     |

**Coefficient of Utilization**



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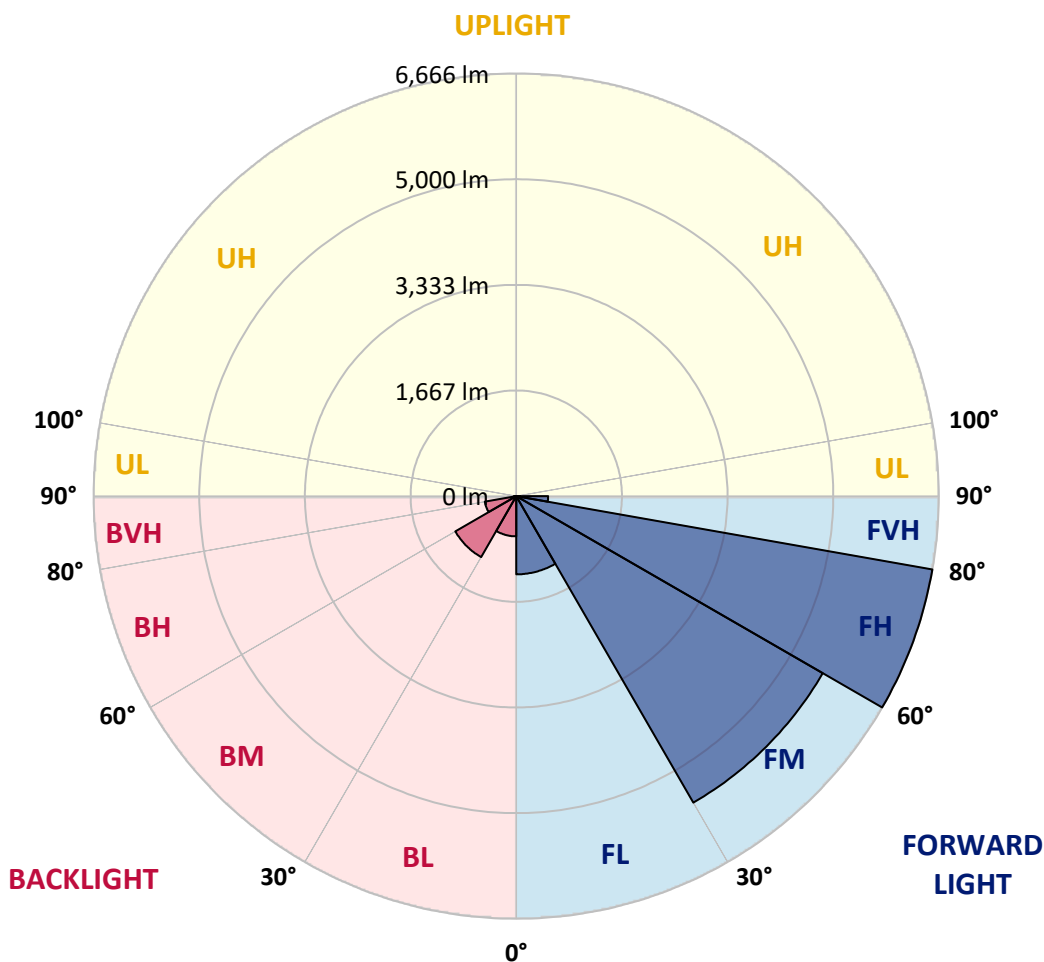
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1233.1 | 7.6       |                         |      |         |
| FM (30°-60°)   | 5582.7 | 34.3      |                         |      |         |
| FH (60°-80°)   | 6666.4 | 41.0      |                         |      | G3/7500 |
| FVH (80°-90°)  | 503.3  | 3.1       |                         |      | G4/750  |
| BL (0°-30°)    | 634.4  | 3.9       | B2/1000                 |      |         |
| BM (30°-60°)   | 1110.2 | 6.8       | B2/2500                 |      |         |
| BH (60°-80°)   | 503.1  | 3.1       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 39.8   | 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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 39°     | 45°     | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 2896.7 | 2896.7 | 2896.7 | 2896.7 | 2896.7  | 2896.7  | 2896.7  | 2896.7 | 2896.7 | 2896.7 | 2896.7 |
| 2.5°  | 2965.9 | 2934.9 | 2940.4 | 2929.5 | 2940.4  | 2936.8  | 2931.3  | 2904.0 | 2931.3 | 2904.0 | 2896.7 |
| 5°    | 2925.8 | 2925.8 | 2944.0 | 2916.7 | 2920.4  | 2902.2  | 2920.4  | 2900.3 | 2882.1 | 2836.6 | 2823.9 |
| 7.5°  | 2913.1 | 2911.3 | 2913.1 | 2874.9 | 2893.1  | 2882.1  | 2863.9  | 2842.1 | 2805.7 | 2776.5 | 2734.7 |
| 10°   | 2825.7 | 2843.9 | 2823.9 | 2834.8 | 2849.4  | 2816.6  | 2814.8  | 2809.3 | 2792.9 | 2754.7 | 2729.2 |
| 12.5° | 2778.4 | 2809.3 | 2820.2 | 2811.1 | 2823.9  | 2827.5  | 2816.6  | 2809.3 | 2789.3 | 2763.8 | 2691.0 |
| 15°   | 2798.4 | 2762.0 | 2792.9 | 2853.0 | 2840.3  | 2849.4  | 2851.2  | 2843.9 | 2834.8 | 2787.5 | 2740.1 |
| 17.5° | 2803.9 | 2782.0 | 2847.5 | 2860.3 | 2876.7  | 2909.4  | 2887.6  | 2885.8 | 2851.2 | 2818.4 | 2749.2 |
| 20°   | 2816.6 | 2807.5 | 2860.3 | 2927.7 | 2929.5  | 2934.9  | 2945.9  | 2918.6 | 2900.3 | 2843.9 | 2738.3 |
| 22.5° | 2863.9 | 2894.9 | 2944.0 | 2973.2 | 2989.6  | 2993.2  | 2993.2  | 2938.6 | 2918.6 | 2873.0 | 2789.3 |
| 25°   | 3005.9 | 2973.2 | 3042.4 | 3077.0 | 3053.3  | 3047.8  | 3035.1  | 2985.9 | 2964.1 | 2924.0 | 2813.0 |
| 27.5° | 3109.7 | 3107.9 | 3148.0 | 3195.3 | 3131.6  | 3144.3  | 3098.8  | 3084.2 | 3035.1 | 3013.2 | 2854.8 |
| 30°   | 3251.7 | 3291.8 | 3290.0 | 3304.5 | 3220.8  | 3235.4  | 3177.1  | 3149.8 | 3122.5 | 3135.2 | 2978.6 |
| 32.5° | 3433.8 | 3419.2 | 3442.9 | 3432.0 | 3348.2  | 3361.0  | 3291.8  | 3249.9 | 3259.0 | 3297.3 | 3148.0 |
| 35°   | 3550.3 | 3535.8 | 3544.9 | 3544.9 | 3519.4  | 3504.8  | 3475.7  | 3421.1 | 3464.8 | 3535.8 | 3337.3 |
| 37.5° | 3676.0 | 3694.2 | 3747.0 | 3736.0 | 3703.3  | 3703.3  | 3699.6  | 3661.4 | 3717.8 | 3892.6 | 3639.5 |
| 40°   | 3787.0 | 3836.2 | 3868.9 | 3890.8 | 3929.0  | 3929.0  | 3960.0  | 3938.1 | 4040.1 | 4320.5 | 4009.1 |
| 42.5° | 3903.5 | 3905.4 | 4083.8 | 4100.2 | 4185.7  | 4222.2  | 4245.8  | 4264.0 | 4455.2 | 4768.4 | 4404.2 |
| 45°   | 4052.8 | 4061.9 | 4218.5 | 4344.1 | 4477.1  | 4489.8  | 4579.0  | 4639.1 | 4874.0 | 5258.1 | 4833.9 |
| 47.5° | 4249.5 | 4238.5 | 4406.1 | 4606.3 | 4772.0  | 4859.4  | 4966.8  | 5032.4 | 5321.9 | 5789.8 | 5303.6 |
| 50°   | 4508.0 | 4475.2 | 4571.7 | 4886.7 | 5081.5  | 5178.0  | 5369.2  | 5478.4 | 5817.1 | 6297.7 | 5625.9 |
| 52.5° | 4823.0 | 4768.4 | 4844.8 | 5188.9 | 5407.4  | 5602.2  | 5784.3  | 5906.3 | 6259.5 | 6691.0 | 5864.4 |
| 55°   | 5156.2 | 5043.3 | 5065.1 | 5509.4 | 5824.4  | 6008.3  | 6257.7  | 6385.1 | 6745.6 | 7044.2 | 6102.9 |
| 57.5° | 5485.7 | 5414.7 | 5371.0 | 5817.1 | 6321.4  | 6498.0  | 6727.4  | 6893.1 | 7199.0 | 7357.4 | 6305.0 |
| 60°   | 5762.5 | 5744.3 | 5673.2 | 6294.1 | 6847.6  | 6998.7  | 7239.0  | 7341.0 | 7572.2 | 7646.9 | 6308.7 |
| 62.5° | 5990.0 | 5928.1 | 6041.0 | 6678.3 | 7382.9  | 7554.0  | 7818.0  | 7827.1 | 7991.0 | 7827.1 | 6123.0 |
| 65°   | 6168.5 | 6172.1 | 6352.4 | 7142.5 | 8001.9  | 8255.0  | 8468.0  | 8444.3 | 8338.7 | 7719.7 | 5684.2 |
| 67.5° | 6330.5 | 6399.7 | 6663.7 | 7652.3 | 8797.5  | 9036.0  | 9272.7  | 8959.6 | 8433.4 | 7217.2 | 4826.6 |
| 70°   | 6458.0 | 6527.1 | 7084.3 | 8273.2 | 9735.2  | 10084.8 | 10137.6 | 9163.5 | 7998.3 | 6113.9 | 3641.4 |
| 72.5° | 6443.4 | 6569.0 | 7322.8 | 8768.4 | 10567.2 | 10869.5 | 10443.4 | 8590.0 | 6663.7 | 4262.2 | 2124.7 |
| 73°   | 6474.3 | 6536.2 | 7302.8 | 8906.8 | 10820.3 | 10971.4 | 10301.4 | 8409.7 | 6285.0 | 3823.4 | 1797.0 |
| 75°   | 5877.2 | 6086.5 | 6940.4 | 8681.0 | 10549.0 | 10521.7 | 9485.8  | 7007.8 | 4468.0 | 2008.2 | 870.3  |
| 77.5° | 4347.8 | 4480.7 | 5469.3 | 7138.9 | 8659.2  | 8484.4  | 7155.3  | 4478.9 | 2121.1 | 744.7  | 469.7  |
| 80°   | 2124.7 | 2228.5 | 2898.5 | 4122.0 | 5662.3  | 5676.9  | 4440.6  | 2330.5 | 908.5  | 420.6  | 320.4  |
| 82.5° | 1061.5 | 1123.4 | 1392.8 | 1811.6 | 2785.6  | 2918.6  | 2252.2  | 1325.5 | 562.6  | 238.5  | 182.1  |
| 85°   | 693.7  | 737.4  | 857.5  | 886.7  | 1181.6  | 1247.2  | 1048.7  | 1034.1 | 366.0  | 129.3  | 147.5  |
| 87.5° | 460.6  | 467.9  | 526.2  | 447.9  | 473.4   | 455.2   | 506.1   | 651.8  | 107.4  | 54.6   | 40.1   |
| 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°    | 2896.7 | 2896.7 | 2896.7 | 2896.7 | 2896.7 | 2896.7 | 2896.7 | 2896.7 | 2896.7 | 2896.7 | 2896.7 |
| 2.5°  | 2887.6 | 2862.1 | 2834.8 | 2796.6 | 2769.3 | 2727.4 | 2689.1 | 2672.8 | 2669.1 | 2670.9 | 2652.7 |
| 5°    | 2813.0 | 2776.5 | 2721.9 | 2643.6 | 2598.1 | 2528.9 | 2470.7 | 2439.7 | 2406.9 | 2412.4 | 2397.8 |
| 7.5°  | 2709.2 | 2669.1 | 2585.4 | 2494.3 | 2381.5 | 2283.1 | 2228.5 | 2152.0 | 2108.3 | 2075.6 | 2093.8 |
| 10°   | 2676.4 | 2607.2 | 2481.6 | 2356.0 | 2181.2 | 2051.9 | 1926.3 | 1838.9 | 1778.8 | 1720.5 | 1746.0 |
| 12.5° | 2660.0 | 2590.8 | 2416.0 | 2230.3 | 2004.6 | 1807.9 | 1631.3 | 1523.9 | 1438.3 | 1387.4 | 1407.4 |
| 15°   | 2645.5 | 2559.9 | 2354.1 | 2092.0 | 1838.9 | 1580.4 | 1381.9 | 1239.9 | 1158.0 | 1108.8 | 1114.3 |
| 17.5° | 2665.5 | 2543.5 | 2263.1 | 1957.2 | 1656.8 | 1380.1 | 1159.8 | 1012.3 | 928.5  | 897.6  | 890.3  |
| 20°   | 2645.5 | 2525.3 | 2173.9 | 1822.5 | 1474.8 | 1188.9 | 977.7  | 855.7  | 797.5  | 772.0  | 766.5  |
| 22.5° | 2652.7 | 2481.6 | 2081.0 | 1673.2 | 1305.4 | 1028.7 | 855.7  | 762.9  | 717.3  | 704.6  | 708.2  |
| 25°   | 2687.3 | 2456.1 | 1988.2 | 1509.3 | 1137.9 | 910.3  | 777.4  | 706.4  | 673.7  | 660.9  | 664.5  |
| 27.5° | 2712.8 | 2477.9 | 1904.4 | 1354.6 | 995.9  | 804.7  | 711.9  | 664.5  | 642.7  | 633.6  | 631.8  |
| 30°   | 2776.5 | 2490.7 | 1822.5 | 1216.2 | 879.4  | 735.6  | 666.4  | 628.1  | 613.6  | 608.1  | 606.3  |
| 32.5° | 2871.2 | 2514.4 | 1727.8 | 1088.8 | 793.8  | 670.0  | 630.0  | 597.2  | 593.5  | 588.1  | 589.9  |
| 35°   | 3026.0 | 2596.3 | 1622.2 | 979.5  | 711.9  | 626.3  | 591.7  | 569.9  | 569.9  | 569.9  | 575.3  |
| 37.5° | 3248.1 | 2711.0 | 1527.6 | 875.7  | 659.1  | 588.1  | 558.9  | 551.7  | 548.0  | 553.5  | 557.1  |
| 40°   | 3533.9 | 2849.4 | 1451.1 | 793.8  | 613.6  | 562.6  | 537.1  | 533.5  | 531.6  | 529.8  | 533.5  |
| 42.5° | 3847.1 | 3026.0 | 1385.5 | 730.1  | 580.8  | 535.3  | 517.1  | 513.4  | 506.1  | 509.8  | 515.3  |
| 45°   | 4158.4 | 3244.5 | 1327.3 | 679.1  | 558.9  | 520.7  | 495.2  | 493.4  | 489.8  | 487.9  | 497.0  |
| 47.5° | 4504.4 | 3459.3 | 1309.1 | 648.2  | 542.6  | 498.9  | 480.7  | 478.8  | 467.9  | 466.1  | 473.4  |
| 50°   | 4773.8 | 3617.7 | 1329.1 | 633.6  | 518.9  | 482.5  | 469.7  | 460.6  | 451.5  | 442.4  | 442.4  |
| 52.5° | 4959.5 | 3726.9 | 1343.7 | 622.7  | 506.1  | 460.6  | 444.2  | 440.6  | 431.5  | 422.4  | 418.8  |
| 55°   | 5127.0 | 3792.5 | 1347.3 | 624.5  | 493.4  | 435.1  | 424.2  | 422.4  | 416.9  | 402.4  | 398.7  |
| 57.5° | 5183.5 | 3765.2 | 1274.5 | 608.1  | 486.1  | 418.8  | 404.2  | 407.8  | 400.6  | 387.8  | 386.0  |
| 60°   | 5178.0 | 3575.8 | 1108.8 | 586.3  | 469.7  | 400.6  | 382.3  | 393.3  | 393.3  | 378.7  | 376.9  |
| 62.5° | 4863.0 | 3138.9 | 906.7  | 544.4  | 451.5  | 382.3  | 362.3  | 378.7  | 384.2  | 375.1  | 373.2  |
| 65°   | 4209.4 | 2556.2 | 757.4  | 502.5  | 424.2  | 362.3  | 342.3  | 360.5  | 369.6  | 366.0  | 364.1  |
| 67.5° | 3483.0 | 1955.4 | 630.0  | 447.9  | 389.6  | 335.0  | 318.6  | 331.4  | 336.8  | 338.6  | 340.5  |
| 70°   | 2461.6 | 1301.8 | 526.2  | 387.8  | 342.3  | 305.9  | 287.7  | 289.5  | 287.7  | 293.1  | 293.1  |
| 72.5° | 1338.2 | 750.1  | 427.9  | 329.5  | 295.0  | 265.8  | 253.1  | 244.0  | 244.0  | 242.2  | 242.2  |
| 73°   | 1145.2 | 673.7  | 407.8  | 320.4  | 282.2  | 258.5  | 244.0  | 236.7  | 236.7  | 234.9  | 233.0  |
| 75°   | 642.7  | 493.4  | 349.6  | 274.9  | 244.0  | 225.8  | 214.8  | 203.9  | 202.1  | 202.1  | 202.1  |
| 77.5° | 422.4  | 384.2  | 278.6  | 220.3  | 196.6  | 180.2  | 176.6  | 165.7  | 165.7  | 165.7  | 163.9  |
| 80°   | 316.8  | 302.2  | 214.8  | 167.5  | 151.1  | 138.4  | 134.7  | 127.4  | 125.6  | 118.3  | 120.2  |
| 82.5° | 211.2  | 238.5  | 156.6  | 118.3  | 102.0  | 94.7   | 94.7   | 92.9   | 87.4   | 78.3   | 78.3   |
| 85°   | 167.5  | 194.8  | 112.9  | 72.8   | 60.1   | 51.0   | 52.8   | 51.0   | 49.2   | 40.1   | 38.2   |
| 87.5° | 31.0   | 78.3   | 32.8   | 20.0   | 14.6   | 9.1    | 9.1    | 5.5    | 3.6    | 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)