

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: P483088

Luminaire Tested: **IFLD-S-SA6D-722-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483088  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-722-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

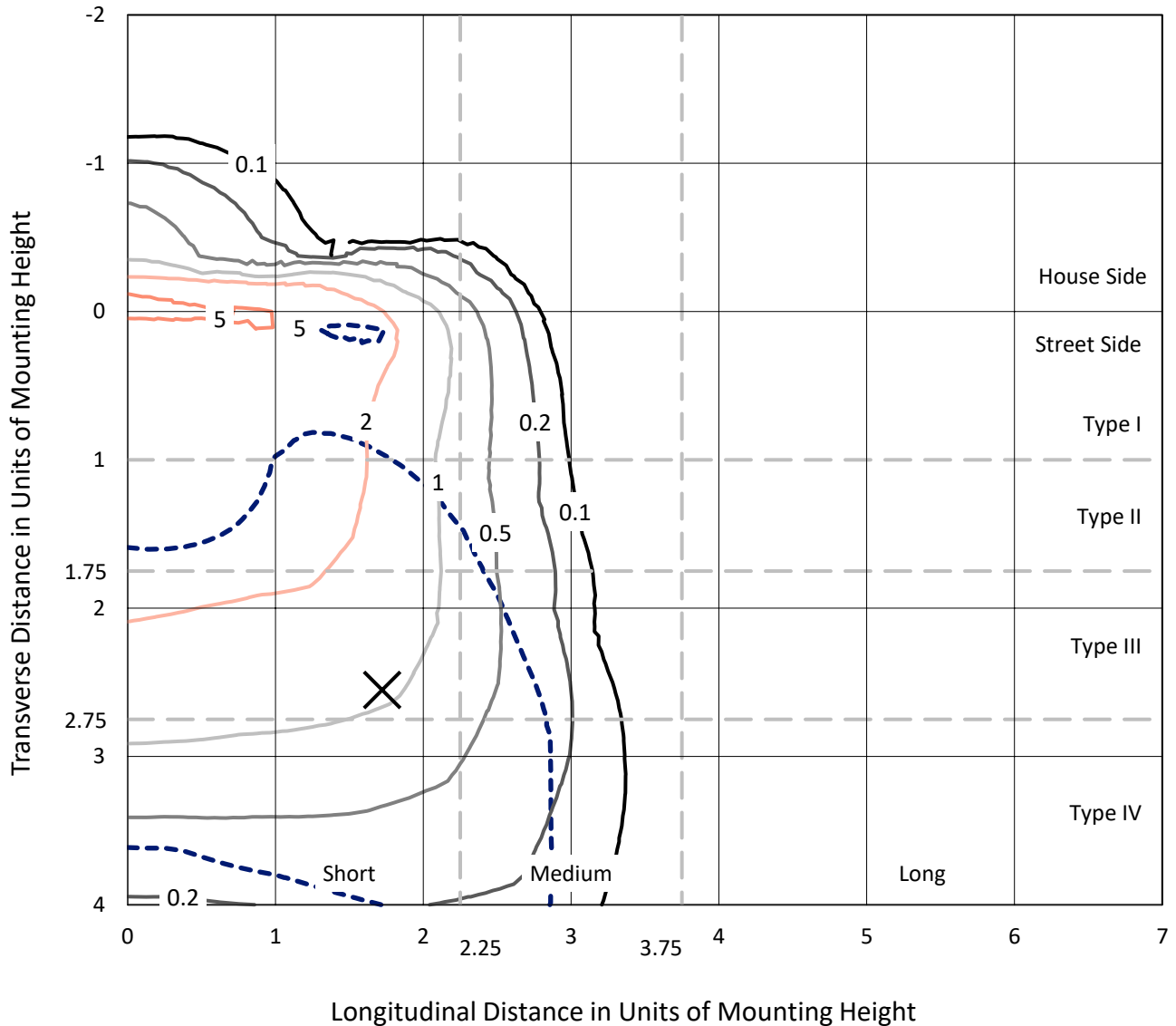
Lumens per Lamp: N/A  
Luminaire Lumens: 24352.7 lumens  
Efficiency: N/A  
Efficacy: 66.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 368.2  
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

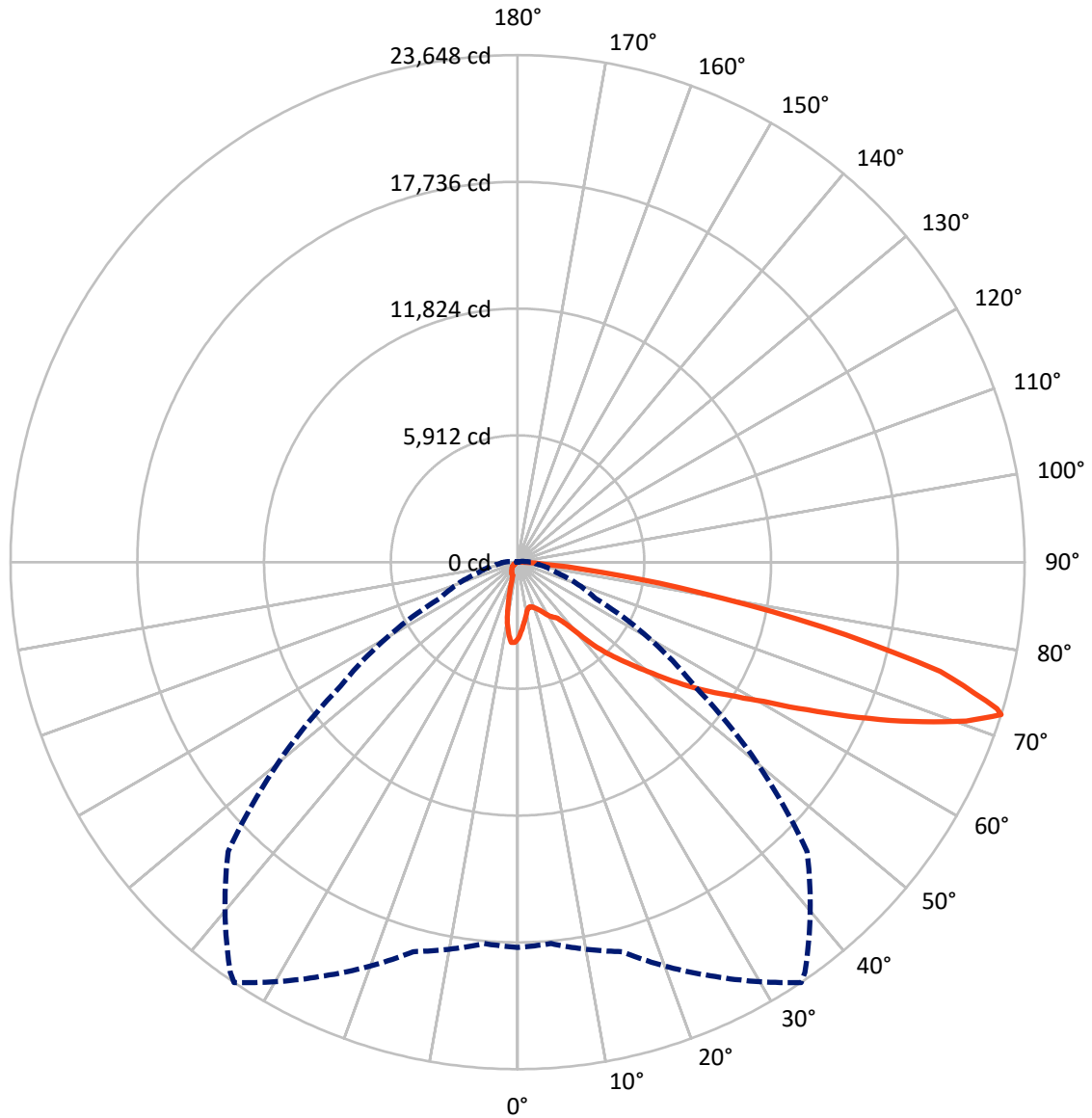
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2493.1   | 0.0    | 2493.1  |
|                    | % Fixture | 10.2     | 0.0    | 10.2    |
| <b>Street Side</b> | Lumens    | 21859.5  | 0.0    | 21859.5 |
|                    | % Fixture | 89.8     | 0.0    | 89.8    |
| <b>Total</b>       | Lumens    | 24352.7  | 0.0    | 24352.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 309.3   | 1.3       |
| 10°-20°   | 700.2   | 2.9       |
| 20°-30°   | 1056.9  | 4.3       |
| 30°-40°   | 1715.1  | 7.0       |
| 40°-50°   | 3225.2  | 13.2      |
| 50°-60°   | 5273.3  | 21.7      |
| 60°-70°   | 7010.1  | 28.8      |
| 70°-80°   | 4694.6  | 19.3      |
| 80°-90°   | 367.9   | 1.5       |
| 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°    | 24352.7 | 100.0     |
| 0°-180°   | 24352.7 | 100.0     |



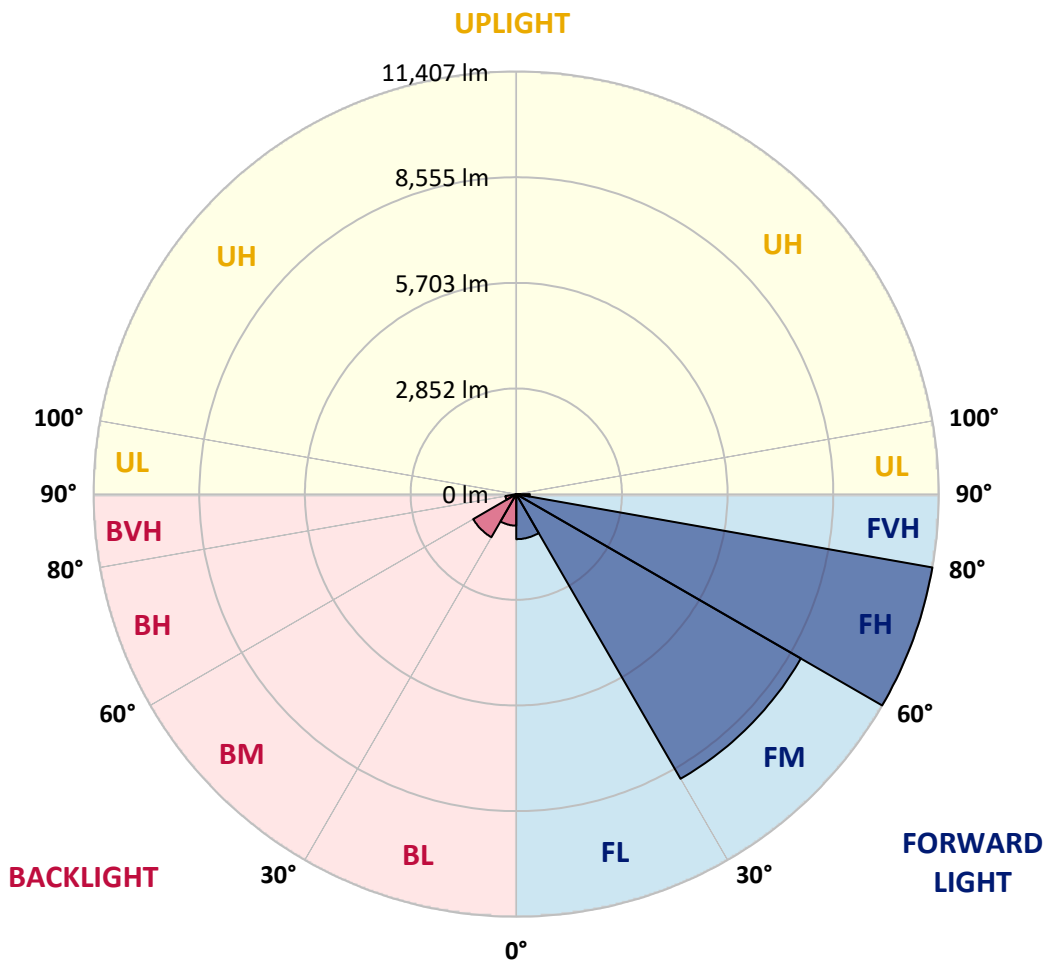
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1215.7  | 5.0       |                         |      |          |
| FM   | (30°-60°)   | 8871.6  | 36.4      |                         |      |          |
| FH   | (60°-80°)   | 11406.6 | 46.8      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 365.6   | 1.5       |                         |      | G3/500   |
| BL   | (0°-30°)    | 850.7   | 3.5       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1342.0  | 5.5       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 298.1   | 1.2       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 2.3     | 0.0       |                         |      | G0/10    |
| 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°     | 34°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3562.8  | 3562.8  | 3562.8  | 3562.8  | 3562.8  | 3562.8  | 3562.8  | 3562.8  | 3562.8  | 3562.8  | 3562.8  |
| 2.5°  | 3150.9  | 3143.9  | 3165.0  | 3200.2  | 3235.4  | 3221.3  | 3288.2  | 3358.6  | 3407.9  | 3474.8  | 3555.8  |
| 5°    | 2753.1  | 2770.7  | 2791.8  | 2862.2  | 2908.0  | 2918.5  | 3041.8  | 3133.3  | 3284.7  | 3439.6  | 3583.9  |
| 7.5°  | 2390.5  | 2411.6  | 2453.8  | 2531.3  | 2626.3  | 2651.0  | 2774.2  | 2957.3  | 3154.4  | 3358.6  | 3594.5  |
| 10°   | 2126.4  | 2147.5  | 2193.3  | 2242.6  | 2369.3  | 2369.3  | 2538.3  | 2791.8  | 3048.8  | 3288.2  | 3598.0  |
| 12.5° | 2070.1  | 2080.7  | 2077.1  | 2115.9  | 2196.8  | 2214.4  | 2379.9  | 2658.0  | 2957.3  | 3263.6  | 3654.3  |
| 15°   | 2137.0  | 2144.0  | 2108.8  | 2087.7  | 2158.1  | 2175.7  | 2330.6  | 2577.1  | 2897.4  | 3277.6  | 3745.9  |
| 17.5° | 2270.8  | 2246.1  | 2175.7  | 2144.0  | 2203.9  | 2214.4  | 2358.8  | 2573.5  | 2890.4  | 3316.4  | 3851.5  |
| 20°   | 2348.2  | 2376.4  | 2253.2  | 2193.3  | 2277.8  | 2291.9  | 2446.8  | 2629.9  | 2925.6  | 3383.3  | 3999.4  |
| 22.5° | 2485.5  | 2499.6  | 2334.1  | 2295.4  | 2376.4  | 2376.4  | 2552.4  | 2742.5  | 3010.1  | 3492.4  | 4175.4  |
| 25°   | 2679.2  | 2661.5  | 2467.9  | 2429.2  | 2506.6  | 2538.3  | 2714.4  | 2922.1  | 3140.3  | 3594.5  | 4337.3  |
| 27.5° | 2830.5  | 2841.1  | 2682.7  | 2580.6  | 2710.8  | 2732.0  | 2922.1  | 3115.7  | 3238.9  | 3679.0  | 4534.5  |
| 30°   | 3055.9  | 3034.7  | 2865.7  | 2749.6  | 2911.5  | 2915.0  | 3098.1  | 3298.8  | 3429.0  | 3830.4  | 4830.2  |
| 32.5° | 3323.4  | 3281.2  | 3087.5  | 2922.1  | 3052.3  | 3084.0  | 3270.6  | 3562.8  | 3724.8  | 4115.5  | 5287.9  |
| 35°   | 3890.2  | 3788.1  | 3471.3  | 3214.3  | 3224.8  | 3238.9  | 3527.6  | 3946.6  | 4133.1  | 4478.2  | 5900.5  |
| 37.5° | 4717.6  | 4675.3  | 4316.2  | 3826.9  | 3640.3  | 3598.0  | 3921.9  | 4453.5  | 4685.9  | 4957.0  | 6696.1  |
| 40°   | 5537.9  | 5478.0  | 5143.5  | 4773.9  | 4435.9  | 4351.4  | 4513.4  | 5125.9  | 5337.2  | 5622.3  | 7512.9  |
| 42.5° | 6449.7  | 6344.1  | 5949.8  | 5650.5  | 5439.3  | 5347.7  | 5284.4  | 5970.9  | 6210.3  | 6403.9  | 8312.1  |
| 45°   | 7372.1  | 7199.6  | 6629.2  | 6400.4  | 6287.7  | 6238.4  | 6231.4  | 7034.1  | 7178.4  | 7217.2  | 9199.2  |
| 47.5° | 8181.8  | 7995.2  | 7477.7  | 7220.7  | 7136.2  | 7122.1  | 7516.4  | 8259.2  | 8146.6  | 8044.5  | 10188.5 |
| 50°   | 8804.9  | 8685.2  | 8312.1  | 8220.5  | 8157.2  | 8132.5  | 9054.9  | 9519.6  | 8998.6  | 8819.0  | 11058.1 |
| 52.5° | 9769.6  | 9502.0  | 9079.5  | 9111.2  | 9333.0  | 9336.5  | 10614.5 | 10716.6 | 9706.2  | 9350.6  | 11878.4 |
| 55°   | 10540.6 | 10364.5 | 10019.5 | 9973.8  | 10558.2 | 10621.5 | 12012.2 | 11624.9 | 10100.5 | 9857.6  | 12181.2 |
| 57.5° | 11448.9 | 11367.9 | 11117.9 | 11125.0 | 11737.6 | 11871.3 | 13254.9 | 12392.4 | 10427.9 | 10185.0 | 12226.9 |
| 60°   | 12762.1 | 12529.7 | 12399.4 | 12459.3 | 13181.0 | 13311.3 | 14459.0 | 12945.1 | 10586.3 | 10399.8 | 12114.3 |
| 62.5° | 14212.5 | 13941.4 | 13800.6 | 14106.9 | 15159.6 | 15180.7 | 15374.3 | 13434.5 | 10487.8 | 10456.1 | 11389.0 |
| 65°   | 15958.7 | 15691.2 | 15578.5 | 16194.6 | 17444.4 | 17367.0 | 16659.3 | 13642.2 | 10174.4 | 9889.3  | 9484.4  |
| 67.5° | 17697.9 | 17535.9 | 17303.6 | 18285.8 | 19841.9 | 19841.9 | 17993.6 | 13564.7 | 9354.1  | 7938.9  | 6203.2  |
| 70°   | 18521.7 | 18634.4 | 19004.0 | 20546.0 | 22197.2 | 22028.2 | 19310.3 | 12674.0 | 6963.7  | 4263.4  | 2439.8  |
| 72°   | 17972.5 | 17856.3 | 18810.4 | 21285.3 | 23647.6 | 23369.5 | 19088.5 | 10075.9 | 4024.0  | 1869.4  | 848.5   |
| 72.5° | 17029.0 | 17138.1 | 18451.3 | 21183.2 | 23376.6 | 23605.4 | 18546.3 | 9294.3  | 3309.3  | 1489.2  | 640.7   |
| 75°   | 10442.0 | 10628.6 | 13772.5 | 17986.6 | 20370.0 | 20113.0 | 14346.3 | 4428.9  | 1270.9  | 633.7   | 228.8   |
| 77.5° | 3812.8  | 3967.7  | 6682.0  | 11318.6 | 14487.1 | 14325.2 | 8301.5  | 1573.7  | 690.0   | 471.8   | 116.2   |
| 80°   | 992.8   | 1073.8  | 2270.8  | 5221.0  | 8519.8  | 8530.3  | 3474.8  | 630.2   | 468.2   | 387.3   | 70.4    |
| 82.5° | 197.2   | 218.3   | 697.1   | 2031.4  | 3981.8  | 3929.0  | 1098.4  | 338.0   | 352.1   | 316.9   | 49.3    |
| 85°   | 24.6    | 31.7    | 147.9   | 690.0   | 1288.5  | 1154.7  | 271.1   | 169.0   | 260.5   | 246.4   | 31.7    |
| 87.5° | 3.5     | 3.5     | 35.2    | 158.4   | 271.1   | 264.0   | 56.3    | 52.8    | 116.2   | 151.4   | 17.6    |
| 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°    | 3562.8  | 3562.8 | 3562.8 | 3562.8 | 3562.8 | 3562.8 | 3562.8 | 3562.8 | 3562.8 | 3562.8 | 3562.8 |
| 2.5°  | 3601.5  | 3615.6 | 3664.9 | 3707.2 | 3756.4 | 3770.5 | 3749.4 | 3784.6 | 3735.3 | 3763.5 | 3770.5 |
| 5°    | 3608.6  | 3689.6 | 3781.1 | 3840.9 | 3826.9 | 3791.6 | 3763.5 | 3668.4 | 3601.5 | 3576.9 | 3629.7 |
| 7.5°  | 3657.9  | 3749.4 | 3848.0 | 3848.0 | 3770.5 | 3587.5 | 3411.4 | 3242.4 | 3101.6 | 3031.2 | 3091.1 |
| 10°   | 3721.2  | 3816.3 | 3918.4 | 3784.6 | 3495.9 | 3161.5 | 2911.5 | 2594.7 | 2379.9 | 2267.2 | 2277.8 |
| 12.5° | 3805.7  | 3939.5 | 3974.7 | 3664.9 | 3186.1 | 2689.7 | 2235.6 | 1795.5 | 1591.3 | 1429.3 | 1432.9 |
| 15°   | 3914.9  | 4045.1 | 3939.5 | 3404.4 | 2791.8 | 2059.5 | 1513.8 | 1094.9 | 932.9  | 848.5  | 848.5  |
| 17.5° | 4059.2  | 4157.8 | 3929.0 | 3165.0 | 2260.2 | 1408.2 | 929.4  | 739.3  | 704.1  | 690.0  | 690.0  |
| 20°   | 4228.2  | 4302.1 | 3826.9 | 2791.8 | 1679.3 | 904.8  | 683.0  | 661.9  | 665.4  | 658.3  | 658.3  |
| 22.5° | 4418.3  | 4443.0 | 3710.7 | 2358.8 | 1137.1 | 668.9  | 637.2  | 640.7  | 644.3  | 637.2  | 640.7  |
| 25°   | 4619.0  | 4552.1 | 3541.7 | 1851.8 | 756.9  | 609.1  | 616.1  | 623.1  | 626.7  | 630.2  | 630.2  |
| 27.5° | 4844.3  | 4710.5 | 3305.8 | 1355.4 | 591.5  | 573.9  | 595.0  | 616.1  | 619.6  | 619.6  | 616.1  |
| 30°   | 5175.2  | 4953.4 | 3077.0 | 918.9  | 521.0  | 535.1  | 570.3  | 595.0  | 612.6  | 612.6  | 609.1  |
| 32.5° | 5594.2  | 5206.9 | 2756.6 | 626.7  | 482.3  | 489.4  | 517.5  | 566.8  | 605.5  | 609.1  | 598.5  |
| 35°   | 6175.1  | 5513.2 | 2422.1 | 499.9  | 454.2  | 457.7  | 475.3  | 514.0  | 580.9  | 602.0  | 598.5  |
| 37.5° | 6787.7  | 5861.7 | 2006.7 | 450.6  | 433.0  | 429.5  | 440.1  | 471.8  | 531.6  | 584.4  | 587.9  |
| 40°   | 7439.0  | 6227.9 | 1570.2 | 426.0  | 415.4  | 408.4  | 411.9  | 426.0  | 471.8  | 538.6  | 552.7  |
| 42.5° | 8051.5  | 6558.8 | 1179.4 | 401.3  | 397.8  | 390.8  | 390.8  | 394.3  | 418.9  | 464.7  | 471.8  |
| 45°   | 8713.4  | 6829.9 | 897.7  | 383.7  | 373.2  | 376.7  | 362.6  | 355.6  | 373.2  | 376.7  | 373.2  |
| 47.5° | 9333.0  | 7101.0 | 718.2  | 362.6  | 352.1  | 352.1  | 334.5  | 320.4  | 320.4  | 288.7  | 285.2  |
| 50°   | 9913.9  | 7248.8 | 573.9  | 334.5  | 330.9  | 327.4  | 302.8  | 278.1  | 257.0  | 218.3  | 211.2  |
| 52.5° | 10396.2 | 7241.8 | 443.6  | 299.2  | 309.8  | 299.2  | 260.5  | 225.3  | 193.6  | 158.4  | 151.4  |
| 55°   | 10540.6 | 6903.8 | 334.5  | 246.4  | 264.0  | 250.0  | 207.7  | 176.0  | 140.8  | 112.7  | 109.1  |
| 57.5° | 10417.4 | 6389.8 | 253.5  | 190.1  | 204.2  | 190.1  | 158.4  | 130.3  | 98.6   | 77.5   | 70.4   |
| 60°   | 10005.4 | 5787.8 | 197.2  | 147.9  | 154.9  | 144.3  | 119.7  | 98.6   | 70.4   | 49.3   | 42.2   |
| 62.5° | 9223.9  | 5034.4 | 151.4  | 116.2  | 112.7  | 112.7  | 91.5   | 73.9   | 49.3   | 28.2   | 24.6   |
| 65°   | 7569.2  | 3925.4 | 116.2  | 81.0   | 81.0   | 81.0   | 70.4   | 52.8   | 31.7   | 14.1   | 7.0    |
| 67.5° | 4752.8  | 2284.8 | 95.1   | 63.4   | 59.8   | 59.8   | 49.3   | 35.2   | 17.6   | 3.5    | 0.0    |
| 70°   | 1788.4  | 837.9  | 73.9   | 49.3   | 45.8   | 45.8   | 35.2   | 21.1   | 10.6   | 0.0    | 0.0    |
| 72°   | 616.1   | 320.4  | 59.8   | 35.2   | 35.2   | 31.7   | 24.6   | 17.6   | 7.0    | 0.0    | 0.0    |
| 72.5° | 507.0   | 257.0  | 56.3   | 35.2   | 31.7   | 31.7   | 24.6   | 17.6   | 7.0    | 0.0    | 0.0    |
| 75°   | 183.1   | 105.6  | 38.7   | 24.6   | 21.1   | 21.1   | 17.6   | 10.6   | 3.5    | 0.0    | 0.0    |
| 77.5° | 91.5    | 66.9   | 31.7   | 21.1   | 17.6   | 10.6   | 10.6   | 7.0    | 3.5    | 0.0    | 0.0    |
| 80°   | 56.3    | 42.2   | 17.6   | 14.1   | 10.6   | 7.0    | 3.5    | 3.5    | 0.0    | 0.0    | 0.0    |
| 82.5° | 38.7    | 24.6   | 10.6   | 10.6   | 7.0    | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 24.6    | 10.6   | 7.0    | 7.0    | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 10.6    | 7.0    | 3.5    | 0.0    | 0.0    | 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)