

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: P481574

Luminaire Tested: **IFLD-L-SA7A-727-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481574  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-727-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

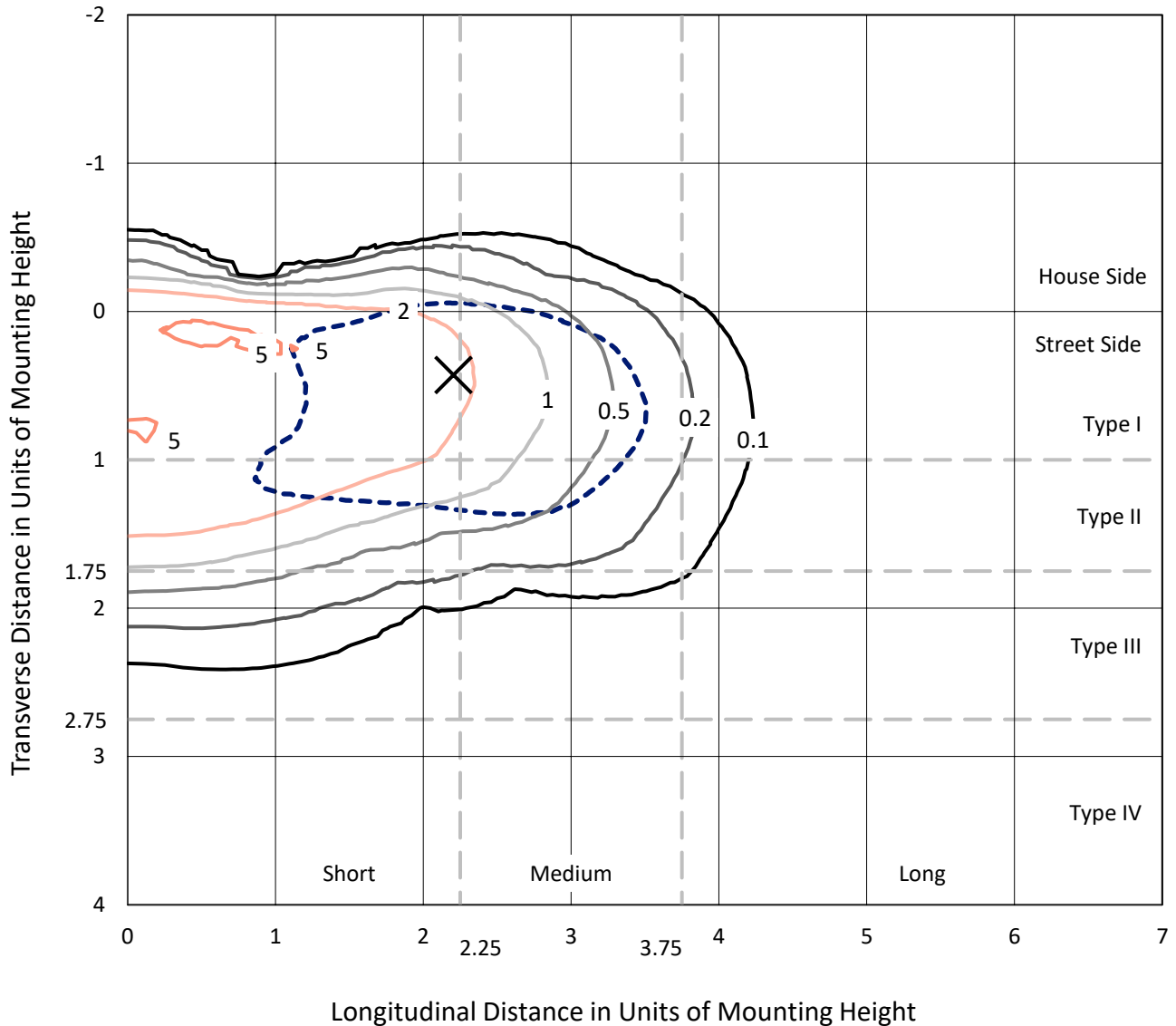
Lumens per Lamp: N/A  
Luminaire Lumens: 18850.8 lumens  
Efficiency: N/A  
Efficacy: 86.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 217.6  
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

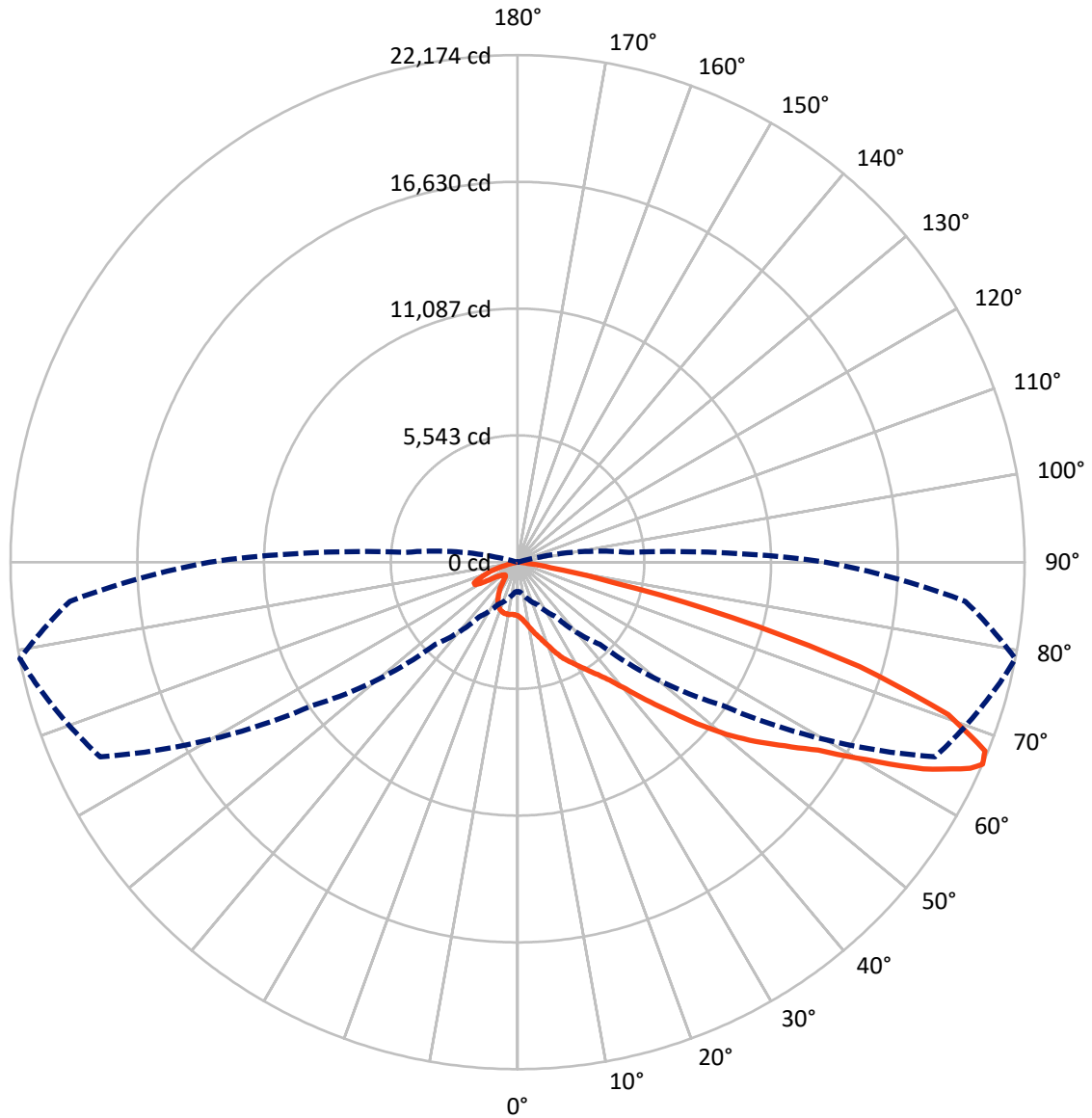
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1415.4   | 0.0    | 1415.4  |
|                    | % Fixture | 7.5      | 0.0    | 7.5     |
| <b>Street Side</b> | Lumens    | 17435.4  | 0.0    | 17435.4 |
|                    | % Fixture | 92.5     | 0.0    | 92.5    |
| <b>Total</b>       | Lumens    | 18850.8  | 0.0    | 18850.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 221.8   | 1.2       |
| 10°-20°   | 610.4   | 3.2       |
| 20°-30°   | 1014.1  | 5.4       |
| 30°-40°   | 1741.8  | 9.2       |
| 40°-50°   | 3155.4  | 16.7      |
| 50°-60°   | 4987.8  | 26.5      |
| 60°-70°   | 5075.5  | 26.9      |
| 70°-80°   | 1935.5  | 10.3      |
| 80°-90°   | 108.5   | 0.6       |
| 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°    | 18850.8 | 100.0     |
| 0°-180°   | 18850.8 | 100.0     |

**Coefficient of Utilization**



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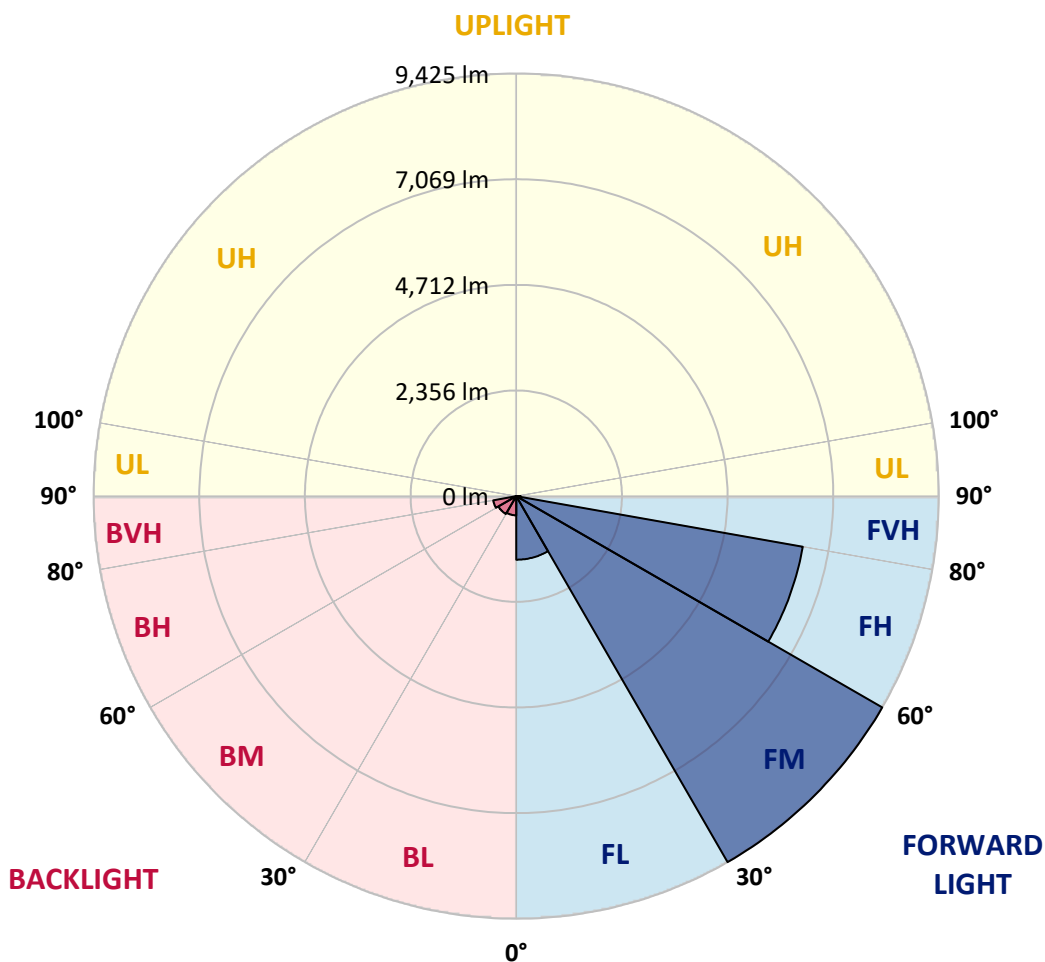
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1418.2 | 7.5       |                         |      |         |
| FM (30°-60°)   | 9425.0 | 50.0      |                         |      |         |
| FH (60°-80°)   | 6489.2 | 34.4      |                         |      | G3/7500 |
| FVH (80°-90°)  | 103.0  | 0.5       |                         |      | G2/225  |
| BL (0°-30°)    | 428.1  | 2.3       | B1/500                  |      |         |
| BM (30°-60°)   | 460.0  | 2.4       | B1/1000                 |      |         |
| BH (60°-80°)   | 521.8  | 2.8       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 5.5    | 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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 65°     | 75°     | 79°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2345.3 | 2345.3 | 2345.3 | 2345.3 | 2345.3  | 2345.3  | 2345.3  | 2345.3  | 2345.3  | 2345.3  | 2345.3  |
| 2.5°  | 2656.2 | 2653.3 | 2641.7 | 2621.3 | 2595.2  | 2586.5  | 2548.7  | 2496.4  | 2467.3  | 2435.4  | 2420.8  |
| 5°    | 2839.3 | 2824.8 | 2859.7 | 2845.1 | 2850.9  | 2781.2  | 2734.7  | 2696.9  | 2586.5  | 2542.9  | 2473.1  |
| 7.5°  | 2880.0 | 2894.5 | 2891.6 | 2914.9 | 2938.1  | 2964.3  | 2932.3  | 2877.1  | 2766.7  | 2702.7  | 2627.2  |
| 10°   | 2880.0 | 2874.2 | 2897.4 | 2929.4 | 2996.2  | 3054.4  | 3141.6  | 3068.9  | 2984.6  | 2909.1  | 2772.5  |
| 12.5° | 2827.7 | 2819.0 | 2842.2 | 2909.1 | 3028.2  | 3147.4  | 3243.3  | 3313.0  | 3193.9  | 3132.8  | 2955.6  |
| 15°   | 2667.8 | 2659.1 | 2755.0 | 2874.2 | 3031.1  | 3225.8  | 3426.4  | 3539.7  | 3458.3  | 3362.4  | 3164.8  |
| 17.5° | 2470.2 | 2481.9 | 2583.6 | 2781.2 | 3031.1  | 3263.6  | 3519.3  | 3766.4  | 3754.7  | 3632.7  | 3426.4  |
| 20°   | 2403.4 | 2412.1 | 2513.8 | 2656.2 | 2941.0  | 3289.8  | 3664.7  | 4013.4  | 4083.1  | 3937.8  | 3667.6  |
| 22.5° | 2531.3 | 2522.5 | 2531.3 | 2618.4 | 2880.0  | 3266.5  | 3760.6  | 4295.3  | 4420.3  | 4306.9  | 3984.3  |
| 25°   | 2967.2 | 2961.4 | 2888.7 | 2755.0 | 2845.1  | 3214.2  | 3810.0  | 4481.3  | 4769.0  | 4664.4  | 4240.1  |
| 27.5° | 3606.5 | 3583.3 | 3469.9 | 3191.0 | 3007.9  | 3246.2  | 3891.3  | 4661.5  | 5074.1  | 4955.0  | 4469.7  |
| 30°   | 4292.4 | 4237.2 | 4089.0 | 3740.2 | 3429.3  | 3365.3  | 3937.8  | 4795.2  | 5414.2  | 5263.0  | 4670.2  |
| 32.5° | 4766.1 | 4838.7 | 4792.2 | 4437.7 | 3961.1  | 3641.4  | 4013.4  | 4963.7  | 5728.0  | 5629.2  | 5013.1  |
| 35°   | 5498.4 | 5582.7 | 5388.0 | 5074.1 | 4594.6  | 4080.2  | 4173.2  | 5100.3  | 6210.4  | 6044.8  | 5332.8  |
| 37.5° | 6422.6 | 6486.5 | 6347.0 | 5751.3 | 5245.6  | 4620.8  | 4501.6  | 5385.1  | 6626.0  | 6547.6  | 5742.6  |
| 40°   | 6887.6 | 7195.6 | 6998.0 | 6460.4 | 5916.9  | 5376.4  | 5045.1  | 5719.3  | 7349.7  | 7285.7  | 6309.3  |
| 42.5° | 7529.8 | 7683.9 | 7582.2 | 7184.0 | 6617.3  | 6184.3  | 5716.4  | 6370.3  | 8227.3  | 8227.3  | 7076.5  |
| 45°   | 8209.9 | 8215.7 | 8209.9 | 7884.4 | 7381.6  | 7157.9  | 6623.1  | 7186.9  | 9171.8  | 9276.4  | 7994.8  |
| 47.5° | 8767.9 | 8942.2 | 8927.7 | 8733.0 | 8343.6  | 8259.3  | 7529.8  | 8116.9  | 10357.5 | 10540.6 | 8889.9  |
| 50°   | 9055.6 | 9250.3 | 9308.4 | 9410.1 | 9392.7  | 9570.0  | 8520.8  | 9195.1  | 11380.5 | 11830.9 | 10040.8 |
| 52.5° | 8977.1 | 8991.6 | 9349.1 | 9750.1 | 10389.5 | 10886.4 | 9715.3  | 10418.6 | 12577.8 | 13022.5 | 10930.0 |
| 55°   | 8334.8 | 8279.6 | 9014.9 | 9474.1 | 10796.4 | 11691.4 | 11368.9 | 11944.3 | 13510.7 | 14187.8 | 11848.4 |
| 57.5° | 6925.4 | 6939.9 | 7619.9 | 8552.8 | 10494.1 | 12011.1 | 13135.8 | 13937.9 | 14818.5 | 15501.4 | 13138.7 |
| 60°   | 4780.6 | 4763.2 | 5524.6 | 6602.8 | 8718.5  | 11415.4 | 14153.0 | 16521.5 | 16568.0 | 17535.7 | 15454.9 |
| 62.5° | 2688.2 | 2694.0 | 3272.3 | 4193.6 | 6100.0  | 9328.7  | 14103.6 | 19264.9 | 19067.3 | 19915.9 | 18087.9 |
| 65°   | 1522.8 | 1560.6 | 1958.7 | 2484.8 | 3653.0  | 6262.8  | 12130.3 | 20357.6 | 20994.0 | 21749.6 | 19686.3 |
| 66°   | 1287.4 | 1313.6 | 1653.6 | 2051.7 | 2914.9  | 5080.0  | 10918.4 | 20145.4 | 21598.5 | 22173.9 | 19654.3 |
| 67.5° | 996.8  | 1031.7 | 1316.5 | 1627.4 | 2138.9  | 3516.4  | 8788.2  | 19090.5 | 21709.0 | 22046.1 | 19099.2 |
| 70°   | 682.9  | 706.2  | 924.2  | 1235.1 | 1461.8  | 1798.9  | 5254.3  | 15783.3 | 19697.9 | 19982.7 | 16599.9 |
| 72.5° | 479.5  | 491.1  | 648.1  | 935.8  | 1124.7  | 1028.8  | 2606.8  | 11229.4 | 15074.2 | 15629.3 | 12912.0 |
| 75°   | 345.8  | 357.5  | 444.6  | 671.3  | 877.7   | 674.2   | 1194.4  | 7172.4  | 9244.5  | 9680.4  | 7776.9  |
| 77.5° | 249.9  | 264.5  | 302.2  | 433.0  | 636.4   | 473.7   | 587.0   | 3746.0  | 4359.2  | 4283.7  | 3345.0  |
| 80°   | 151.1  | 165.7  | 223.8  | 279.0  | 465.0   | 334.2   | 322.6   | 1563.5  | 1546.1  | 1467.6  | 1052.0  |
| 82.5° | 69.7   | 81.4   | 119.2  | 188.9  | 325.5   | 232.5   | 154.0   | 558.0   | 488.2   | 447.5   | 296.4   |
| 85°   | 20.3   | 26.2   | 69.7   | 142.4  | 165.7   | 113.3   | 93.0    | 191.8   | 200.5   | 171.5   | 98.8    |
| 87.5° | 0.0    | 2.9    | 32.0   | 34.9   | 49.4    | 37.8    | 34.9    | 49.4    | 93.0    | 75.6    | 32.0    |
| 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°    | 2345.3  | 2345.3 | 2345.3 | 2345.3 | 2345.3 | 2345.3 | 2345.3 | 2345.3 | 2345.3 | 2345.3 | 2345.3 |
| 2.5°  | 2368.5  | 2348.2 | 2298.8 | 2223.2 | 2156.4 | 2121.5 | 2072.1 | 2028.5 | 2005.2 | 2002.3 | 1999.4 |
| 5°    | 2426.6  | 2371.4 | 2252.3 | 2115.7 | 2014.0 | 1903.5 | 1828.0 | 1772.8 | 1720.4 | 1671.0 | 1700.1 |
| 7.5°  | 2505.1  | 2417.9 | 2223.2 | 2045.9 | 1825.1 | 1682.7 | 1549.0 | 1470.5 | 1424.0 | 1380.4 | 1374.6 |
| 10°   | 2627.2  | 2516.7 | 2202.9 | 1883.2 | 1630.4 | 1421.1 | 1284.5 | 1171.2 | 1107.2 | 1031.7 | 1060.7 |
| 12.5° | 2792.8  | 2595.2 | 2127.3 | 1735.0 | 1409.5 | 1188.6 | 993.9  | 810.8  | 709.1  | 630.6  | 633.5  |
| 15°   | 2958.5  | 2699.8 | 2057.6 | 1554.8 | 1209.0 | 918.3  | 633.5  | 508.6  | 479.5  | 462.1  | 467.9  |
| 17.5° | 3121.2  | 2784.1 | 1950.0 | 1371.7 | 979.4  | 584.1  | 462.1  | 435.9  | 421.4  | 404.0  | 404.0  |
| 20°   | 3318.8  | 2839.3 | 1816.3 | 1203.1 | 674.2  | 433.0  | 395.2  | 377.8  | 354.6  | 331.3  | 334.2  |
| 22.5° | 3510.6  | 2885.8 | 1662.3 | 988.1  | 453.4  | 374.9  | 331.3  | 308.1  | 287.7  | 264.5  | 264.5  |
| 25°   | 3702.4  | 2900.3 | 1461.8 | 709.1  | 366.2  | 299.3  | 258.6  | 226.7  | 206.3  | 186.0  | 188.9  |
| 27.5° | 3833.2  | 2810.2 | 1272.9 | 453.4  | 293.5  | 226.7  | 180.2  | 154.0  | 136.6  | 116.2  | 116.2  |
| 30°   | 3908.8  | 2644.6 | 1069.5 | 319.7  | 220.9  | 154.0  | 107.5  | 81.4   | 63.9   | 49.4   | 46.5   |
| 32.5° | 3984.3  | 2510.9 | 839.9  | 244.1  | 145.3  | 81.4   | 40.7   | 14.5   | 0.0    | 0.0    | 0.0    |
| 35°   | 4135.5  | 2359.8 | 563.8  | 136.6  | 49.4   | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 37.5° | 4231.4  | 2150.6 | 258.6  | 20.3   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 40°   | 4472.6  | 2045.9 | 63.9   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 42.5° | 4864.9  | 1973.3 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 45°   | 5295.0  | 1944.2 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 47.5° | 5867.5  | 2022.7 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 50°   | 6472.0  | 2234.8 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 52.5° | 7134.6  | 2435.4 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 55°   | 7712.9  | 2676.6 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 8776.6  | 3246.2 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 10685.9 | 4365.0 | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 12836.5 | 5196.2 | 32.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 13624.0 | 5175.9 | 55.2   | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 66°   | 13484.5 | 4891.1 | 55.2   | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 12760.9 | 4344.7 | 49.4   | 5.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 10959.1 | 3589.1 | 49.4   | 8.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 8355.2  | 2795.7 | 46.5   | 11.6   | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 5042.2  | 1487.9 | 37.8   | 14.5   | 5.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 2008.2  | 523.1  | 29.1   | 11.6   | 5.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 543.5   | 156.9  | 17.4   | 11.6   | 8.7    | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 142.4   | 58.1   | 14.5   | 11.6   | 5.8    | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 55.2    | 23.2   | 11.6   | 8.7    | 8.7    | 5.8    | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 17.4    | 8.7    | 8.7    | 5.8    | 5.8    | 2.9    | 2.9    | 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)