

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: P479252

Luminaire Tested: **IFLD-S-SA3E-730-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479252  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-730-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (48) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

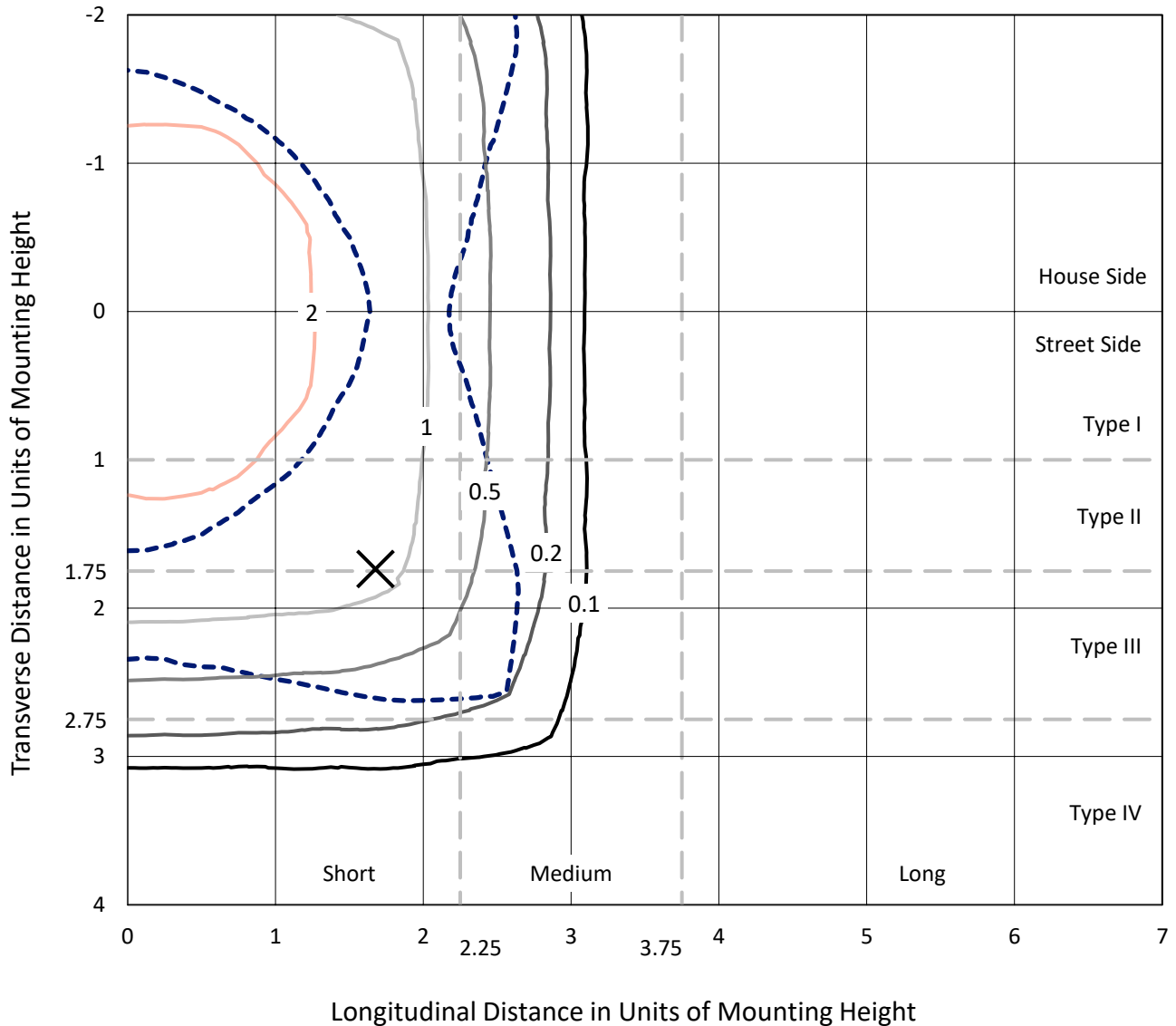
Lumens per Lamp: N/A  
Luminaire Lumens: 24793 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 232.1  
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

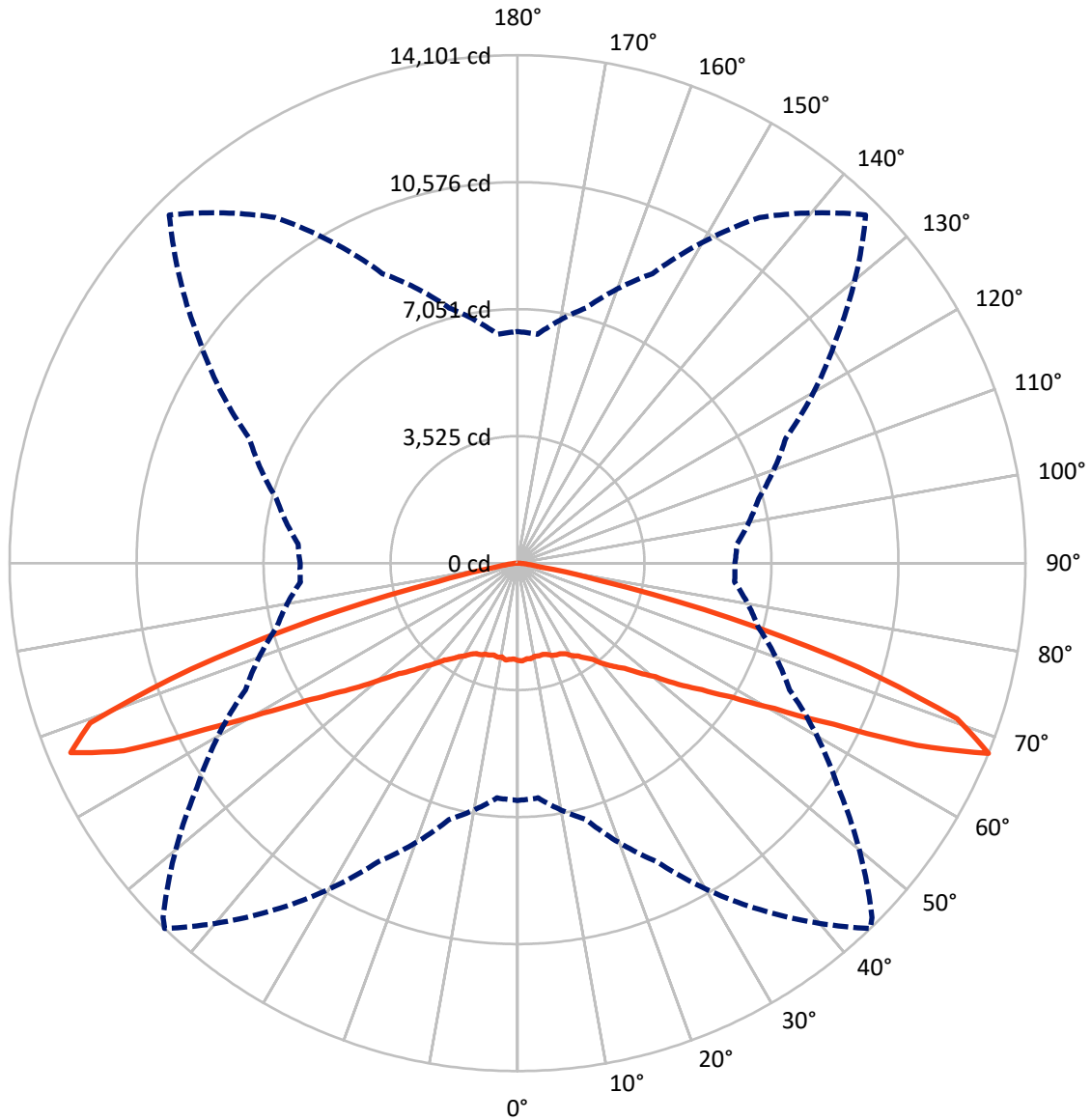
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12364.8  | 0.0    | 12364.8 |
|                    | % Fixture | 49.9     | 0.0    | 49.9    |
| <b>Street Side</b> | Lumens    | 12428.3  | 0.0    | 12428.3 |
|                    | % Fixture | 50.1     | 0.0    | 50.1    |
| <b>Total</b>       | Lumens    | 24793.0  | 0.0    | 24793.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 256.3   | 1.0       |
| 10°-20°   | 748.7   | 3.0       |
| 20°-30°   | 1273.2  | 5.1       |
| 30°-40°   | 2018.7  | 8.1       |
| 40°-50°   | 3291.7  | 13.3      |
| 50°-60°   | 5621.8  | 22.7      |
| 60°-70°   | 8550.7  | 34.5      |
| 70°-80°   | 2882.1  | 11.6      |
| 80°-90°   | 149.6   | 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°    | 24793.0 | 100.0     |
| 0°-180°   | 24793.0 | 100.0     |

**Coefficient of Utilization**



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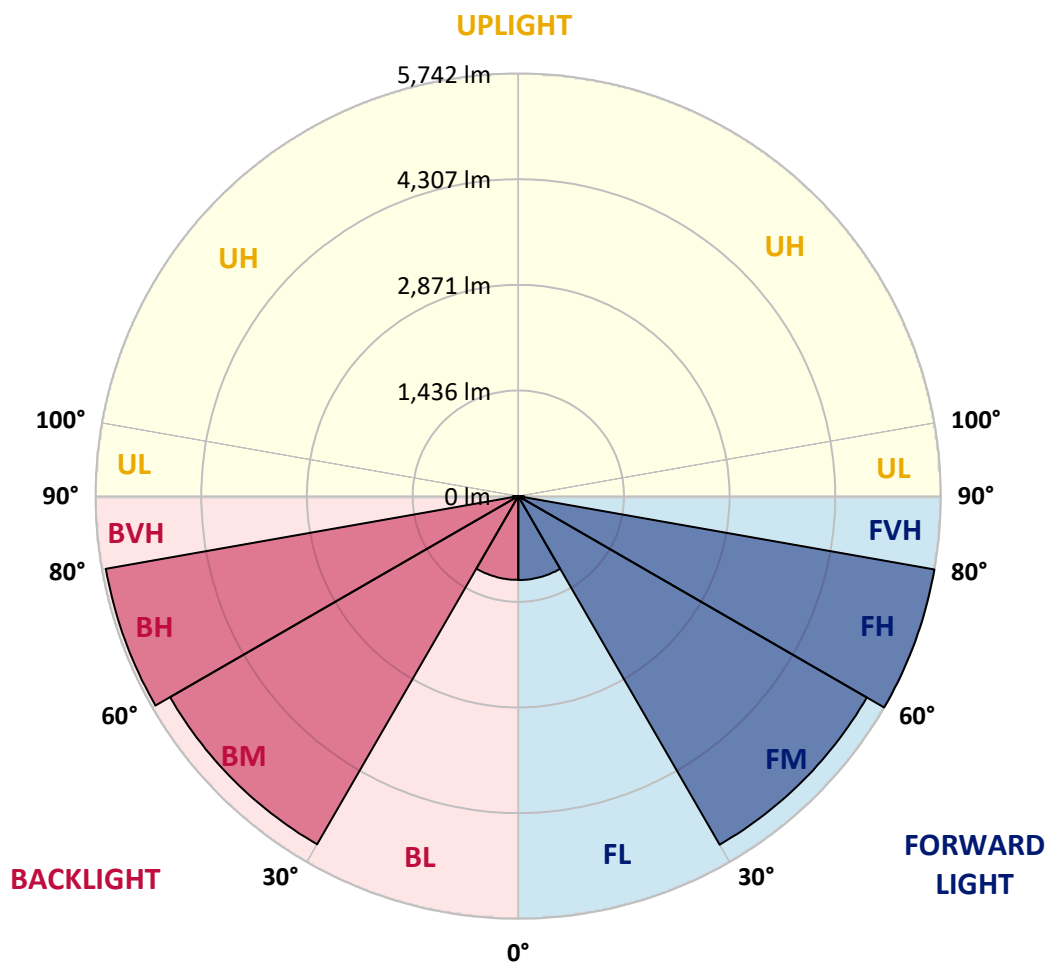
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1140.3 | 4.6       |                         |      |         |
| FM (30°-60°)   | 5469.1 | 22.1      |                         |      |         |
| FH (60°-80°)   | 5742.3 | 23.2      |                         |      | G3/7500 |
| FVH (80°-90°)  | 76.5   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 1137.9 | 4.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 5463.2 | 22.0      | B4/8500                 |      |         |
| BH (60°-80°)   | 5690.6 | 23.0      | B5                      |      | G3/7500 |
| BVH (80°-90°)  | 73.1   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 44°     | 45°     | 55°     | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|
| 0°    | 2708.2 | 2708.2 | 2708.2 | 2708.2 | 2708.2  | 2708.2  | 2708.2  | 2708.2  | 2708.2 | 2708.2 | 2708.2 |
| 2.5°  | 2646.0 | 2677.1 | 2699.7 | 2696.9 | 2705.4  | 2713.9  | 2702.6  | 2719.5  | 2708.2 | 2728.0 | 2739.3 |
| 5°    | 2696.9 | 2688.4 | 2691.2 | 2674.3 | 2713.9  | 2668.6  | 2668.6  | 2691.2  | 2719.5 | 2685.6 | 2705.4 |
| 7.5°  | 2665.8 | 2660.1 | 2646.0 | 2671.4 | 2679.9  | 2679.9  | 2702.6  | 2660.1  | 2708.2 | 2719.5 | 2722.4 |
| 10°   | 2631.8 | 2600.7 | 2643.1 | 2668.6 | 2674.3  | 2629.0  | 2648.8  | 2660.1  | 2646.0 | 2660.1 | 2668.6 |
| 12.5° | 2603.5 | 2620.5 | 2620.5 | 2620.5 | 2612.0  | 2643.1  | 2662.9  | 2660.1  | 2631.8 | 2657.3 | 2612.0 |
| 15°   | 2600.7 | 2592.2 | 2617.7 | 2640.3 | 2626.1  | 2631.8  | 2640.3  | 2665.8  | 2612.0 | 2623.3 | 2623.3 |
| 17.5° | 2597.8 | 2609.2 | 2617.7 | 2614.8 | 2662.9  | 2662.9  | 2654.4  | 2637.5  | 2679.9 | 2657.3 | 2626.1 |
| 20°   | 2609.2 | 2600.7 | 2623.3 | 2631.8 | 2665.8  | 2733.7  | 2708.2  | 2694.1  | 2671.4 | 2643.1 | 2643.1 |
| 22.5° | 2623.3 | 2617.7 | 2648.8 | 2685.6 | 2750.7  | 2767.6  | 2764.8  | 2747.8  | 2708.2 | 2674.3 | 2668.6 |
| 25°   | 2674.3 | 2623.3 | 2657.3 | 2728.0 | 2750.7  | 2784.6  | 2807.3  | 2784.6  | 2730.8 | 2739.3 | 2688.4 |
| 27.5° | 2750.7 | 2742.2 | 2787.4 | 2835.6 | 2815.7  | 2846.9  | 2827.1  | 2844.0  | 2846.9 | 2804.4 | 2753.5 |
| 30°   | 2841.2 | 2815.7 | 2844.0 | 2937.4 | 2945.9  | 2979.9  | 2945.9  | 2900.6  | 2914.8 | 2878.0 | 2852.5 |
| 32.5° | 2971.4 | 2962.9 | 3016.7 | 3078.9 | 3090.2  | 3073.3  | 3056.3  | 3081.8  | 3022.3 | 2994.0 | 2948.8 |
| 35°   | 3056.3 | 3093.1 | 3158.2 | 3206.3 | 3243.1  | 3226.1  | 3234.6  | 3209.1  | 3223.3 | 3163.8 | 3144.0 |
| 37.5° | 3308.1 | 3294.0 | 3308.1 | 3390.2 | 3398.7  | 3390.2  | 3398.7  | 3427.0  | 3407.2 | 3356.3 | 3305.3 |
| 40°   | 3545.9 | 3523.2 | 3557.2 | 3650.6 | 3644.9  | 3673.2  | 3616.6  | 3647.7  | 3647.7 | 3551.5 | 3531.7 |
| 42.5° | 3724.1 | 3800.6 | 3840.2 | 3916.6 | 3944.9  | 3919.4  | 3908.1  | 3913.7  | 3976.0 | 3862.8 | 3820.4 |
| 45°   | 4092.0 | 4089.2 | 4208.1 | 4250.5 | 4171.3  | 4165.6  | 4143.0  | 4210.9  | 4253.3 | 4188.2 | 4171.3 |
| 47.5° | 4491.0 | 4510.9 | 4578.8 | 4595.8 | 4643.9  | 4556.1  | 4556.1  | 4564.6  | 4714.6 | 4561.8 | 4482.6 |
| 50°   | 4850.4 | 4875.9 | 5011.7 | 5144.8 | 5054.2  | 4960.8  | 4997.6  | 5042.9  | 5124.9 | 4980.6 | 4912.7 |
| 52.5° | 5286.2 | 5424.9 | 5515.5 | 5586.2 | 5651.3  | 5586.2  | 5501.3  | 5552.3  | 5713.6 | 5521.1 | 5436.2 |
| 55°   | 5914.5 | 6024.8 | 6109.7 | 6239.9 | 6293.7  | 6206.0  | 6197.5  | 6191.8  | 6282.4 | 6078.6 | 5962.6 |
| 57.5° | 6616.3 | 6571.0 | 6706.9 | 6907.8 | 7103.0  | 7018.1  | 6992.7  | 6998.3  | 7021.0 | 6732.3 | 6644.6 |
| 60°   | 7487.9 | 7538.8 | 7700.1 | 7875.6 | 8082.2  | 8201.0  | 8034.1  | 7937.9  | 7957.7 | 7564.3 | 7428.5 |
| 62.5° | 7986.0 | 8099.2 | 8464.2 | 9067.0 | 9483.0  | 9853.7  | 9879.2  | 9253.8  | 8834.9 | 8070.9 | 7493.6 |
| 65°   | 7745.4 | 7728.4 | 8416.1 | 9531.1 | 11107.3 | 12185.5 | 12024.2 | 10507.4 | 9044.3 | 7830.3 | 7054.9 |
| 67.5° | 6588.0 | 6542.7 | 7374.7 | 9143.4 | 11746.9 | 14101.4 | 13917.4 | 10861.1 | 8336.9 | 6927.6 | 6050.3 |
| 70°   | 4244.8 | 4233.5 | 5136.3 | 6970.0 | 10487.6 | 12946.8 | 13014.7 | 9865.0  | 6786.1 | 5074.0 | 4205.2 |
| 72.5° | 1542.3 | 1635.7 | 2159.2 | 3746.8 | 7122.8  | 9904.6  | 9947.1  | 7304.0  | 3902.4 | 2346.0 | 1729.1 |
| 75°   | 568.8  | 585.8  | 682.0  | 1216.9 | 3245.9  | 6081.4  | 6239.9  | 3543.0  | 1386.6 | 764.1  | 622.6  |
| 77.5° | 328.3  | 331.1  | 365.1  | 452.8  | 962.2   | 2374.3  | 2470.5  | 1075.4  | 537.7  | 407.5  | 376.4  |
| 80°   | 223.6  | 220.7  | 257.5  | 294.3  | 384.9   | 673.5   | 716.0   | 450.0   | 339.6  | 283.0  | 237.7  |
| 82.5° | 130.2  | 138.7  | 189.6  | 209.4  | 234.9   | 297.1   | 302.8   | 280.2   | 254.7  | 209.4  | 155.6  |
| 85°   | 79.2   | 65.1   | 104.7  | 116.0  | 135.8   | 133.0   | 133.0   | 152.8   | 164.1  | 147.2  | 87.7   |
| 87.5° | 19.8   | 19.8   | 25.5   | 28.3   | 36.8    | 28.3    | 31.1    | 59.4    | 79.2   | 73.6   | 45.3   |
| 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°    | 2708.2 | 2708.2 | 2708.2 | 2708.2 | 2708.2  | 2708.2  | 2708.2  | 2708.2 | 2708.2 | 2708.2 | 2708.2 |
| 2.5°  | 2713.9 | 2705.4 | 2711.0 | 2742.2 | 2722.4  | 2662.9  | 2677.1  | 2708.2 | 2682.7 | 2668.6 | 2665.8 |
| 5°    | 2702.6 | 2719.5 | 2699.7 | 2705.4 | 2725.2  | 2677.1  | 2685.6  | 2725.2 | 2708.2 | 2713.9 | 2682.7 |
| 7.5°  | 2705.4 | 2713.9 | 2696.9 | 2671.4 | 2671.4  | 2711.0  | 2688.4  | 2694.1 | 2668.6 | 2711.0 | 2654.4 |
| 10°   | 2688.4 | 2665.8 | 2646.0 | 2660.1 | 2654.4  | 2643.1  | 2634.6  | 2651.6 | 2626.1 | 2662.9 | 2623.3 |
| 12.5° | 2637.5 | 2643.1 | 2637.5 | 2631.8 | 2643.1  | 2671.4  | 2626.1  | 2631.8 | 2592.2 | 2597.8 | 2617.7 |
| 15°   | 2617.7 | 2634.6 | 2629.0 | 2660.1 | 2674.3  | 2631.8  | 2665.8  | 2631.8 | 2600.7 | 2583.7 | 2614.8 |
| 17.5° | 2626.1 | 2651.6 | 2643.1 | 2665.8 | 2640.3  | 2671.4  | 2677.1  | 2662.9 | 2626.1 | 2612.0 | 2626.1 |
| 20°   | 2634.6 | 2626.1 | 2637.5 | 2677.1 | 2713.9  | 2682.7  | 2682.7  | 2674.3 | 2640.3 | 2620.5 | 2620.5 |
| 22.5° | 2654.4 | 2640.3 | 2657.3 | 2688.4 | 2699.7  | 2747.8  | 2705.4  | 2685.6 | 2629.0 | 2578.0 | 2626.1 |
| 25°   | 2694.1 | 2702.6 | 2713.9 | 2702.6 | 2764.8  | 2759.1  | 2753.5  | 2739.3 | 2651.6 | 2654.4 | 2646.0 |
| 27.5° | 2770.5 | 2722.4 | 2736.5 | 2804.4 | 2812.9  | 2835.6  | 2807.3  | 2832.7 | 2739.3 | 2742.2 | 2685.6 |
| 30°   | 2863.9 | 2812.9 | 2858.2 | 2917.6 | 2914.8  | 2957.2  | 2943.1  | 2948.8 | 2883.7 | 2846.9 | 2770.5 |
| 32.5° | 2965.7 | 2960.1 | 2988.4 | 3025.2 | 3039.3  | 3061.9  | 3059.1  | 3059.1 | 3019.5 | 2923.3 | 2937.4 |
| 35°   | 3078.9 | 3118.5 | 3152.5 | 3192.1 | 3197.8  | 3226.1  | 3186.5  | 3192.1 | 3152.5 | 3081.8 | 3104.4 |
| 37.5° | 3302.5 | 3299.7 | 3336.4 | 3384.6 | 3390.2  | 3367.6  | 3398.7  | 3384.6 | 3330.8 | 3282.7 | 3245.9 |
| 40°   | 3562.8 | 3506.2 | 3540.2 | 3653.4 | 3661.9  | 3622.3  | 3619.4  | 3616.6 | 3577.0 | 3472.3 | 3449.6 |
| 42.5° | 3789.2 | 3862.8 | 3857.1 | 3893.9 | 3868.5  | 3848.7  | 3919.4  | 3879.8 | 3848.7 | 3738.3 | 3718.5 |
| 45°   | 4080.7 | 4103.3 | 4176.9 | 4295.8 | 4174.1  | 4174.1  | 4222.2  | 4191.1 | 4174.1 | 4092.0 | 4015.6 |
| 47.5° | 4442.9 | 4462.7 | 4609.9 | 4618.4 | 4539.2  | 4485.4  | 4635.4  | 4641.0 | 4570.3 | 4508.0 | 4414.6 |
| 50°   | 4867.4 | 4875.9 | 5008.9 | 5144.8 | 5057.0  | 4955.1  | 5108.0  | 5167.4 | 5008.9 | 4924.0 | 4808.0 |
| 52.5° | 5334.4 | 5308.9 | 5419.3 | 5673.9 | 5589.0  | 5557.9  | 5722.0  | 5736.2 | 5521.1 | 5388.1 | 5419.3 |
| 55°   | 5872.0 | 5838.1 | 6138.0 | 6310.7 | 6256.9  | 6200.3  | 6273.9  | 6307.8 | 6135.2 | 5917.3 | 5993.7 |
| 57.5° | 6568.2 | 6585.2 | 6735.2 | 6904.9 | 6992.7  | 7006.8  | 7040.8  | 7006.8 | 6831.4 | 6610.6 | 6539.9 |
| 60°   | 7264.3 | 7315.3 | 7606.8 | 7926.5 | 7954.8  | 8203.9  | 8158.6  | 7988.8 | 7739.8 | 7425.6 | 7439.8 |
| 62.5° | 7521.9 | 7479.4 | 7949.2 | 8730.2 | 9395.3  | 9850.9  | 9649.9  | 9047.2 | 8469.9 | 7898.2 | 7940.7 |
| 65°   | 7004.0 | 7108.7 | 7748.3 | 8970.8 | 10414.0 | 12216.7 | 11147.0 | 9480.2 | 8314.2 | 7575.6 | 7493.6 |
| 67.5° | 6036.2 | 6115.4 | 6927.6 | 8218.0 | 10779.1 | 13671.2 | 11712.9 | 8868.9 | 7332.3 | 6375.8 | 6426.7 |
| 70°   | 4205.2 | 4244.8 | 5040.0 | 6732.3 | 9774.5  | 12901.5 | 10566.8 | 6811.6 | 5062.7 | 4035.4 | 4092.0 |
| 72.5° | 1692.3 | 1788.5 | 2312.0 | 4055.2 | 7216.2  | 9802.8  | 7114.4  | 3574.2 | 2099.8 | 1562.1 | 1417.8 |
| 75°   | 625.4  | 628.2  | 738.6  | 1395.1 | 3427.0  | 6160.7  | 3209.1  | 1148.9 | 670.7  | 549.0  | 523.5  |
| 77.5° | 362.2  | 359.4  | 384.9  | 503.7  | 993.3   | 2405.4  | 911.2   | 450.0  | 365.1  | 328.3  | 314.1  |
| 80°   | 226.4  | 223.6  | 263.2  | 333.9  | 435.8   | 659.4   | 384.9   | 280.2  | 246.2  | 212.2  | 212.2  |
| 82.5° | 144.3  | 147.2  | 206.6  | 246.2  | 266.0   | 291.5   | 223.6   | 198.1  | 183.9  | 121.7  | 118.9  |
| 85°   | 93.4   | 84.9   | 144.3  | 164.1  | 147.2   | 130.2   | 124.5   | 104.7  | 96.2   | 59.4   | 65.1   |
| 87.5° | 42.4   | 45.3   | 73.6   | 82.1   | 53.8    | 31.1    | 31.1    | 22.6   | 22.6   | 14.1   | 14.1   |
| 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)