

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: P481258

Luminaire Tested: **IFLD-M-SA4B-735-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481258  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-735-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

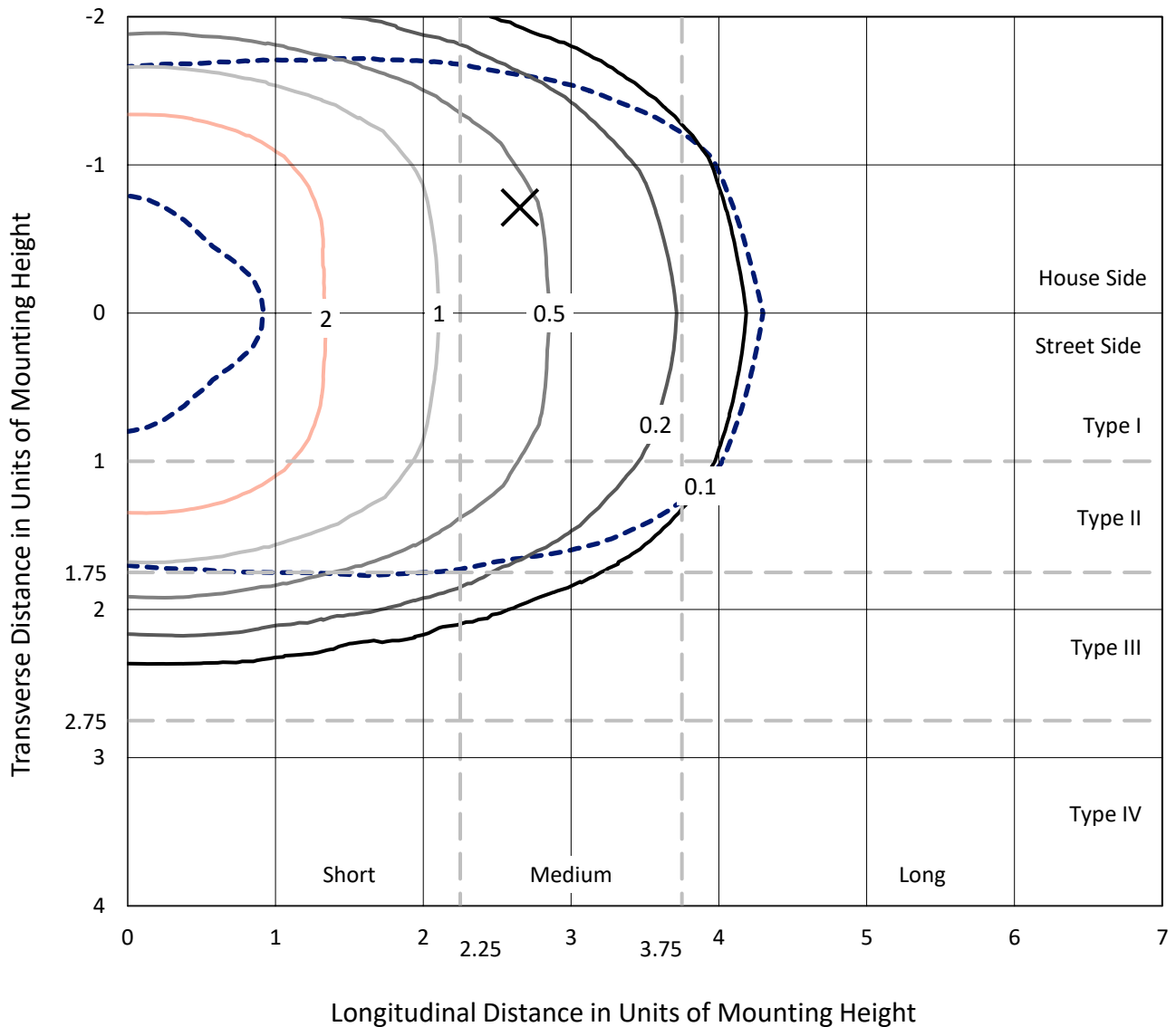
Lumens per Lamp: N/A  
Luminaire Lumens: 23203 lumens  
Efficiency: N/A  
Efficacy: 139.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

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

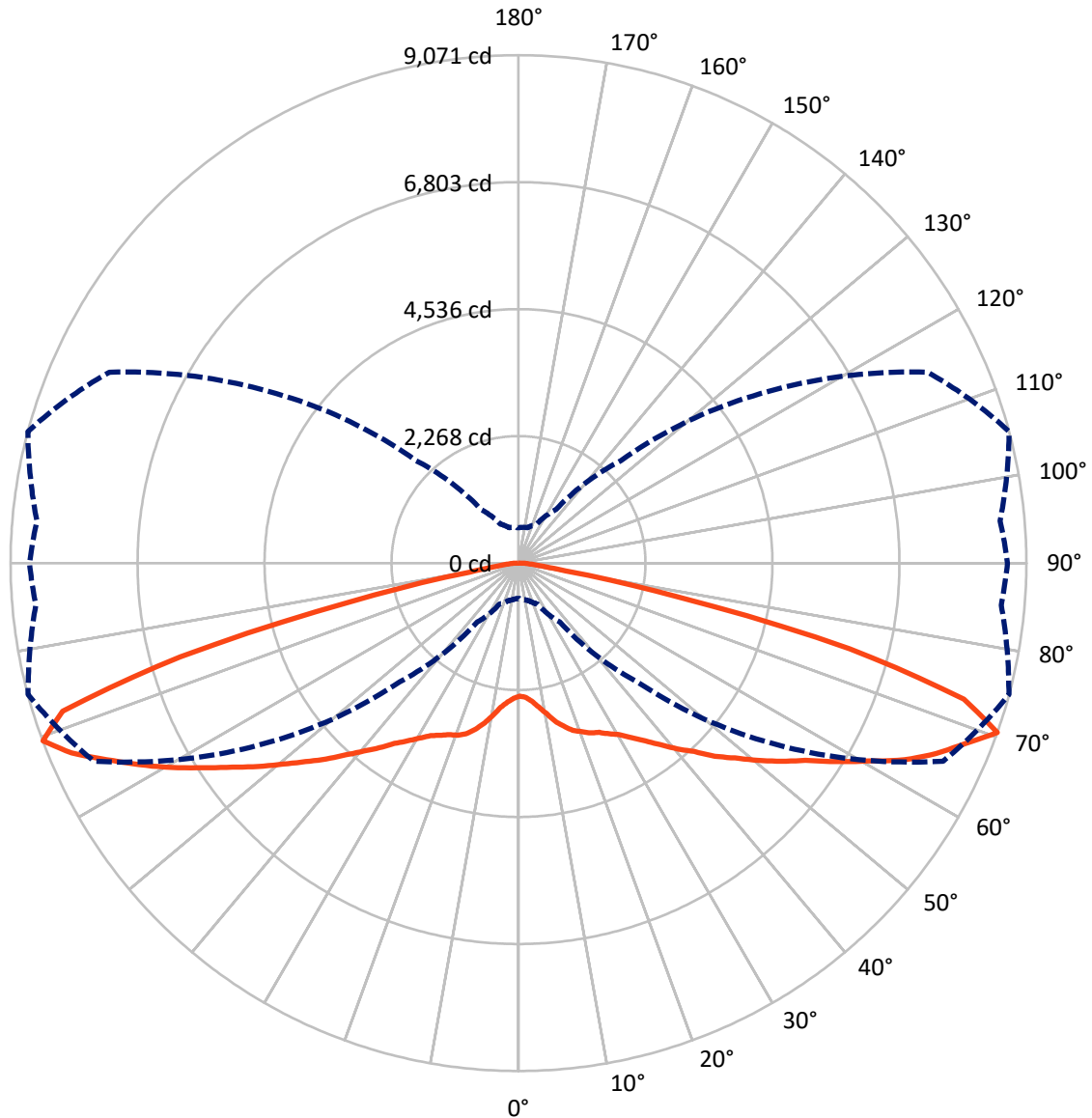
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11519.0  | 0.0    | 11519.0 |
|                    | % Fixture | 49.6     | 0.0    | 49.6    |
| <b>Street Side</b> | Lumens    | 11684.0  | 0.0    | 11684.0 |
|                    | % Fixture | 50.4     | 0.0    | 50.4    |
| <b>Total</b>       | Lumens    | 23203.0  | 0.0    | 23203.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 236.5   | 1.0       |
| 10°-20°   | 805.2   | 3.5       |
| 20°-30°   | 1559.2  | 6.7       |
| 30°-40°   | 2637.2  | 11.4      |
| 40°-50°   | 4207.2  | 18.1      |
| 50°-60°   | 5758.7  | 24.8      |
| 60°-70°   | 5427.9  | 23.4      |
| 70°-80°   | 2391.2  | 10.3      |
| 80°-90°   | 179.9   | 0.8       |
| 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°    | 23203.0 | 100.0     |
| 0°-180°   | 23203.0 | 100.0     |

**Coefficient of Utilization**



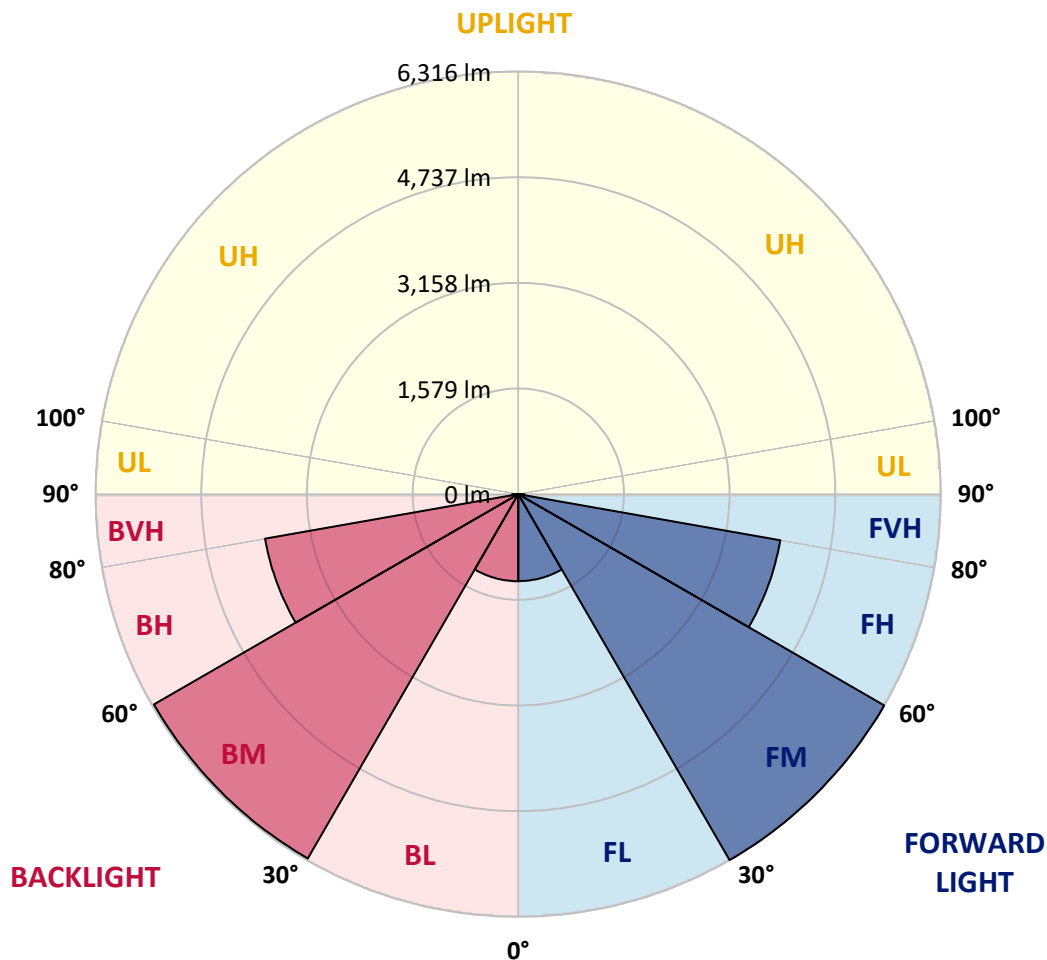
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1299.7 | 5.6       |                         |      |         |
| FM (30°-60°)   | 6315.6 | 27.2      |                         |      |         |
| FH (60°-80°)   | 3976.7 | 17.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 91.9   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 1301.2 | 5.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 6287.4 | 27.1      | B4/8500                 |      |         |
| BH (60°-80°)   | 3842.4 | 16.6      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 88.0   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2376.0 | 2376.0 | 2376.0 | 2376.0 | 2376.0 | 2376.0 | 2376.0 | 2376.0 | 2376.0 | 2376.0 | 2376.0 |
| 2.5°  | 2361.0 | 2361.0 | 2358.5 | 2371.0 | 2383.5 | 2388.5 | 2398.5 | 2401.0 | 2416.0 | 2403.5 | 2428.5 |
| 5°    | 2353.5 | 2350.9 | 2371.0 | 2401.0 | 2401.0 | 2433.5 | 2453.5 | 2481.0 | 2488.5 | 2503.5 | 2508.5 |
| 7.5°  | 2406.0 | 2401.0 | 2391.0 | 2423.5 | 2451.0 | 2501.0 | 2528.5 | 2576.0 | 2593.5 | 2613.6 | 2636.1 |
| 10°   | 2438.5 | 2438.5 | 2428.5 | 2486.0 | 2511.0 | 2578.5 | 2638.6 | 2686.1 | 2753.6 | 2776.1 | 2778.6 |
| 12.5° | 2443.5 | 2451.0 | 2481.0 | 2556.0 | 2626.1 | 2713.6 | 2758.6 | 2848.7 | 2916.2 | 2958.7 | 2973.7 |
| 15°   | 2518.5 | 2503.5 | 2536.0 | 2638.6 | 2741.1 | 2818.6 | 2898.7 | 2963.7 | 3061.2 | 3116.3 | 3151.3 |
| 17.5° | 2586.0 | 2571.0 | 2631.1 | 2753.6 | 2858.7 | 2978.7 | 3048.7 | 3118.8 | 3188.8 | 3238.8 | 3241.3 |
| 20°   | 2693.6 | 2706.1 | 2758.6 | 2891.2 | 3028.7 | 3133.8 | 3213.8 | 3226.3 | 3261.3 | 3333.8 | 3321.3 |
| 22.5° | 2826.1 | 2816.1 | 2926.2 | 3071.2 | 3221.3 | 3308.8 | 3353.9 | 3321.3 | 3303.8 | 3381.4 | 3398.9 |
| 25°   | 2958.7 | 2988.7 | 3088.7 | 3223.8 | 3403.9 | 3521.4 | 3533.9 | 3443.9 | 3378.9 | 3406.4 | 3398.9 |
| 27.5° | 3161.3 | 3166.3 | 3271.3 | 3431.4 | 3614.0 | 3716.5 | 3709.0 | 3581.4 | 3456.4 | 3458.9 | 3463.9 |
| 30°   | 3421.4 | 3396.4 | 3511.4 | 3656.5 | 3836.5 | 3929.1 | 3941.6 | 3759.0 | 3591.5 | 3541.4 | 3553.9 |
| 32.5° | 3671.5 | 3701.5 | 3801.5 | 3966.6 | 4099.2 | 4151.7 | 4124.2 | 3961.6 | 3744.0 | 3676.5 | 3684.0 |
| 35°   | 3991.6 | 3986.6 | 4124.2 | 4264.2 | 4364.3 | 4374.3 | 4351.8 | 4114.2 | 3909.1 | 3821.5 | 3786.5 |
| 37.5° | 4334.3 | 4379.3 | 4469.3 | 4584.4 | 4689.4 | 4694.4 | 4571.8 | 4381.8 | 4129.2 | 3984.1 | 4026.6 |
| 40°   | 4716.9 | 4766.9 | 4832.0 | 4999.5 | 5077.1 | 4997.0 | 4872.0 | 4614.4 | 4351.8 | 4224.2 | 4244.2 |
| 42.5° | 5054.5 | 5077.1 | 5209.6 | 5407.2 | 5444.7 | 5409.7 | 5224.6 | 4912.0 | 4606.9 | 4466.8 | 4476.8 |
| 45°   | 5364.7 | 5394.7 | 5567.2 | 5744.8 | 5832.4 | 5772.3 | 5557.2 | 5259.6 | 4904.5 | 4784.4 | 4736.9 |
| 47.5° | 5649.8 | 5709.8 | 5877.4 | 6059.9 | 6195.0 | 6200.0 | 5934.9 | 5574.8 | 5199.6 | 5042.0 | 5039.5 |
| 50°   | 5842.4 | 5929.9 | 6095.0 | 6302.5 | 6500.1 | 6577.7 | 6312.5 | 5924.9 | 5522.2 | 5354.7 | 5337.2 |
| 52.5° | 5947.4 | 6037.4 | 6202.5 | 6525.1 | 6745.2 | 6865.3 | 6740.2 | 6252.5 | 5899.9 | 5724.8 | 5697.3 |
| 55°   | 5819.9 | 5879.9 | 6150.0 | 6602.7 | 6942.8 | 7140.4 | 7057.9 | 6705.2 | 6275.0 | 6132.5 | 6157.5 |
| 57.5° | 5277.1 | 5402.2 | 5734.8 | 6300.0 | 6937.8 | 7423.0 | 7415.5 | 7132.9 | 6707.7 | 6572.7 | 6577.7 |
| 60°   | 4344.3 | 4449.3 | 4859.5 | 5649.8 | 6657.7 | 7538.0 | 7803.2 | 7548.0 | 7192.9 | 7035.3 | 7030.3 |
| 62.5° | 3066.2 | 3198.8 | 3674.0 | 4536.8 | 5832.4 | 7378.0 | 8248.3 | 8070.8 | 7668.1 | 7553.1 | 7595.6 |
| 65°   | 1715.7 | 1795.7 | 2235.9 | 3016.2 | 4444.3 | 6497.6 | 8328.4 | 8613.5 | 8150.8 | 7975.7 | 7983.2 |
| 67.5° | 917.9  | 947.9  | 1153.0 | 1583.1 | 2718.6 | 5009.5 | 7520.5 | 8926.1 | 8673.5 | 8370.9 | 8323.4 |
| 70°   | 630.3  | 640.3  | 692.8  | 810.3  | 1285.5 | 2996.2 | 5672.3 | 8368.4 | 9066.2 | 8653.5 | 8733.5 |
| 72.5° | 532.7  | 527.7  | 540.2  | 552.7  | 672.8  | 1340.5 | 3328.8 | 6440.1 | 8558.5 | 8403.4 | 8373.4 |
| 75°   | 462.7  | 460.2  | 465.2  | 452.7  | 467.7  | 590.2  | 1473.1 | 4014.1 | 6265.0 | 6992.8 | 7105.4 |
| 77.5° | 382.7  | 385.2  | 387.7  | 375.2  | 370.1  | 390.2  | 592.7  | 1763.2 | 3083.7 | 3403.9 | 3671.5 |
| 80°   | 290.1  | 295.1  | 315.1  | 302.6  | 282.6  | 285.1  | 350.1  | 590.2  | 885.4  | 802.8  | 827.8  |
| 82.5° | 197.6  | 200.1  | 242.6  | 227.6  | 212.6  | 192.6  | 225.1  | 305.1  | 345.1  | 262.6  | 230.1  |
| 85°   | 140.1  | 137.6  | 157.6  | 145.1  | 135.1  | 97.5   | 135.1  | 172.6  | 207.6  | 130.1  | 117.5  |
| 87.5° | 32.5   | 32.5   | 65.0   | 52.5   | 50.0   | 40.0   | 52.5   | 67.5   | 90.0   | 57.5   | 52.5   |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2376.0 | 2376.0 | 2376.0 | 2376.0 | 2376.0 | 2376.0 | 2376.0 | 2376.0 | 2376.0 | 2376.0 |
| 2.5°  | 2421.0 | 2398.5 | 2398.5 | 2393.5 | 2373.5 | 2368.5 | 2350.9 | 2356.0 | 2343.4 | 2330.9 |
| 5°    | 2506.0 | 2476.0 | 2476.0 | 2433.5 | 2393.5 | 2388.5 | 2368.5 | 2368.5 | 2348.4 | 2353.5 |
| 7.5°  | 2623.6 | 2596.0 | 2551.0 | 2513.5 | 2458.5 | 2436.0 | 2398.5 | 2393.5 | 2388.5 | 2378.5 |
| 10°   | 2763.6 | 2728.6 | 2683.6 | 2606.1 | 2561.0 | 2518.5 | 2481.0 | 2428.5 | 2416.0 | 2418.5 |
| 12.5° | 2953.7 | 2898.7 | 2801.1 | 2733.6 | 2676.1 | 2621.1 | 2566.0 | 2488.5 | 2471.0 | 2478.5 |
| 15°   | 3088.7 | 3018.7 | 2921.2 | 2896.2 | 2818.6 | 2751.1 | 2661.1 | 2573.5 | 2543.5 | 2536.0 |
| 17.5° | 3198.8 | 3141.3 | 3083.7 | 3046.2 | 2983.7 | 2901.2 | 2776.1 | 2676.1 | 2608.6 | 2601.1 |
| 20°   | 3288.8 | 3213.8 | 3201.3 | 3223.8 | 3146.3 | 3091.2 | 2938.7 | 2816.1 | 2726.1 | 2688.6 |
| 22.5° | 3343.9 | 3296.3 | 3331.3 | 3351.4 | 3346.4 | 3253.8 | 3096.3 | 2953.7 | 2841.1 | 2806.1 |
| 25°   | 3403.9 | 3348.9 | 3473.9 | 3541.4 | 3558.9 | 3406.4 | 3283.8 | 3096.3 | 2986.2 | 2963.7 |
| 27.5° | 3433.9 | 3453.9 | 3599.0 | 3741.5 | 3729.0 | 3611.5 | 3446.4 | 3278.8 | 3191.3 | 3151.3 |
| 30°   | 3521.4 | 3553.9 | 3774.0 | 3934.1 | 3936.6 | 3821.5 | 3696.5 | 3506.4 | 3408.9 | 3391.4 |
| 32.5° | 3679.0 | 3719.0 | 3954.1 | 4124.2 | 4154.2 | 4066.6 | 3941.6 | 3824.0 | 3724.0 | 3684.0 |
| 35°   | 3799.0 | 3901.6 | 4166.7 | 4321.7 | 4401.8 | 4349.3 | 4279.2 | 4156.7 | 4051.6 | 4016.6 |
| 37.5° | 3971.6 | 4114.2 | 4369.3 | 4579.3 | 4669.4 | 4664.4 | 4611.9 | 4479.3 | 4391.8 | 4361.8 |
| 40°   | 4219.2 | 4361.8 | 4594.4 | 4872.0 | 5039.5 | 5032.0 | 5002.0 | 4899.5 | 4769.4 | 4754.4 |
| 42.5° | 4481.8 | 4599.4 | 4902.0 | 5219.6 | 5459.7 | 5434.7 | 5354.7 | 5234.6 | 5144.6 | 5124.6 |
| 45°   | 4736.9 | 4919.5 | 5199.6 | 5607.3 | 5787.3 | 5849.9 | 5754.8 | 5549.7 | 5447.2 | 5434.7 |
| 47.5° | 5057.0 | 5202.1 | 5552.2 | 5917.4 | 6185.0 | 6195.0 | 6032.4 | 5842.4 | 5654.8 | 5694.8 |
| 50°   | 5342.2 | 5534.7 | 5889.9 | 6290.0 | 6610.2 | 6495.1 | 6287.5 | 6049.9 | 5914.9 | 5862.4 |
| 52.5° | 5647.3 | 5882.4 | 6295.0 | 6702.7 | 6880.3 | 6765.2 | 6427.6 | 6162.5 | 5957.4 | 5934.9 |
| 55°   | 6092.5 | 6215.0 | 6755.2 | 7067.9 | 7125.4 | 6882.8 | 6385.1 | 6009.9 | 5744.8 | 5679.8 |
| 57.5° | 6545.1 | 6687.7 | 7160.4 | 7430.5 | 7370.5 | 6817.8 | 6110.0 | 5529.7 | 5182.1 | 5089.6 |
| 60°   | 7002.8 | 7177.9 | 7575.6 | 7823.2 | 7513.0 | 6370.1 | 5332.2 | 4584.4 | 4179.2 | 4096.7 |
| 62.5° | 7513.0 | 7740.6 | 8095.8 | 8183.3 | 7090.4 | 5484.7 | 4231.7 | 3308.8 | 2898.7 | 2761.1 |
| 65°   | 7965.7 | 8198.3 | 8636.0 | 8108.3 | 6192.5 | 4091.7 | 2736.1 | 1890.8 | 1588.1 | 1478.1 |
| 67.5° | 8338.4 | 8601.0 | 8816.1 | 7175.4 | 4534.3 | 2396.0 | 1425.6 | 995.4  | 882.9  | 842.8  |
| 70°   | 8633.5 | 9071.2 | 8065.8 | 5274.6 | 2591.0 | 1168.0 | 770.3  | 655.3  | 640.3  | 630.3  |
| 72.5° | 8375.9 | 8318.4 | 6022.4 | 3043.7 | 1135.5 | 642.8  | 557.7  | 540.2  | 537.7  | 540.2  |
| 75°   | 6850.3 | 6110.0 | 3601.5 | 1323.0 | 570.2  | 465.2  | 462.7  | 455.2  | 467.7  | 467.7  |
| 77.5° | 3323.8 | 2906.2 | 1505.6 | 567.7  | 375.2  | 365.1  | 377.7  | 377.7  | 377.7  | 377.7  |
| 80°   | 770.3  | 852.8  | 537.7  | 345.1  | 272.6  | 272.6  | 300.1  | 302.6  | 290.1  | 285.1  |
| 82.5° | 262.6  | 350.1  | 295.1  | 217.6  | 180.1  | 202.6  | 227.6  | 232.6  | 192.6  | 195.1  |
| 85°   | 130.1  | 205.1  | 160.1  | 125.1  | 92.5   | 125.1  | 147.6  | 155.1  | 132.6  | 127.6  |
| 87.5° | 60.0   | 90.0   | 60.0   | 42.5   | 32.5   | 45.0   | 42.5   | 35.0   | 20.0   | 20.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)