

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: P479013

Luminaire Tested: **IFLD-S-SA2E-760-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479013  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-760-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ  
distribution lens  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

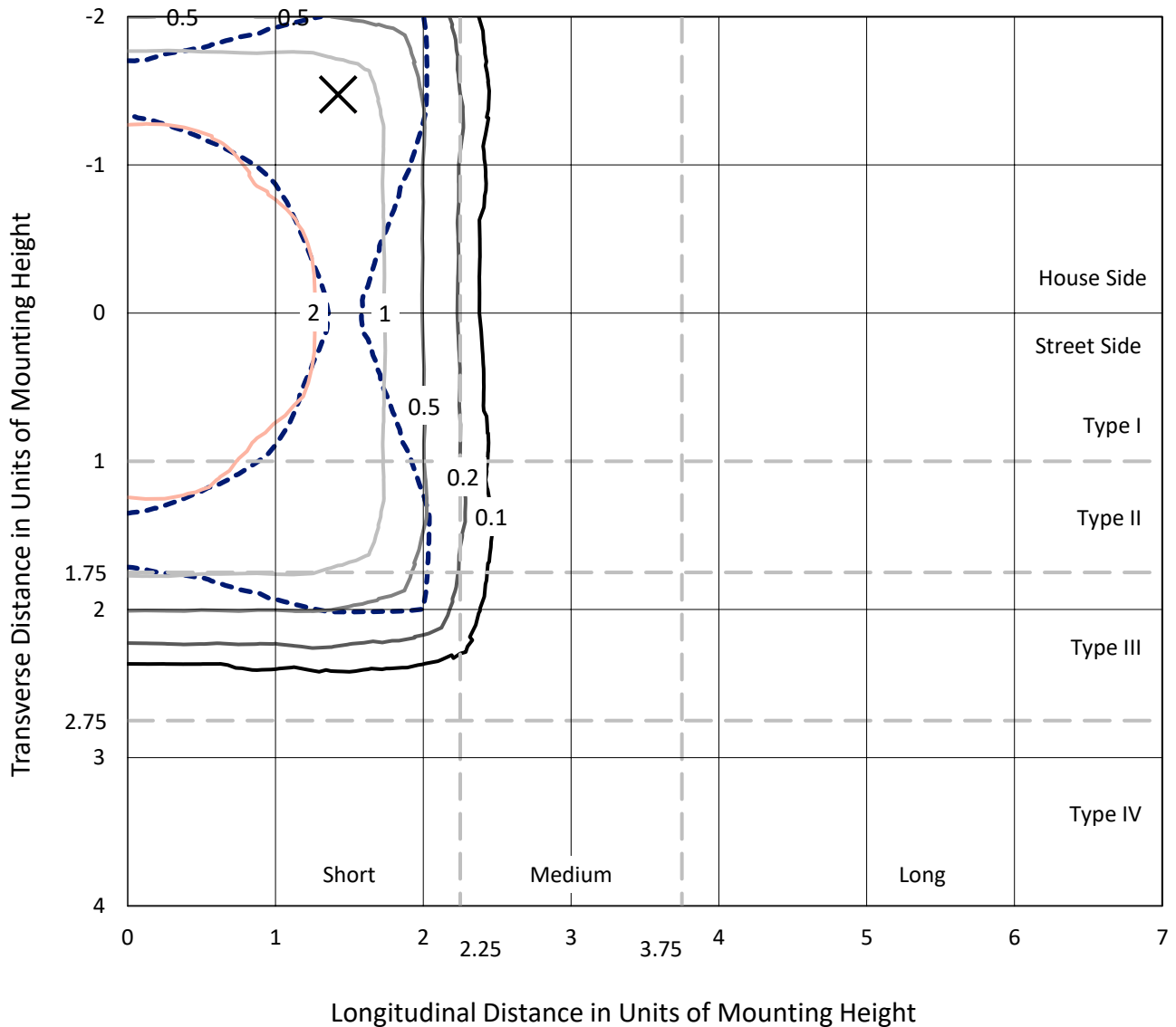
Lumens per Lamp: N/A  
Luminaire Lumens: 18465.2 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 156.2  
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

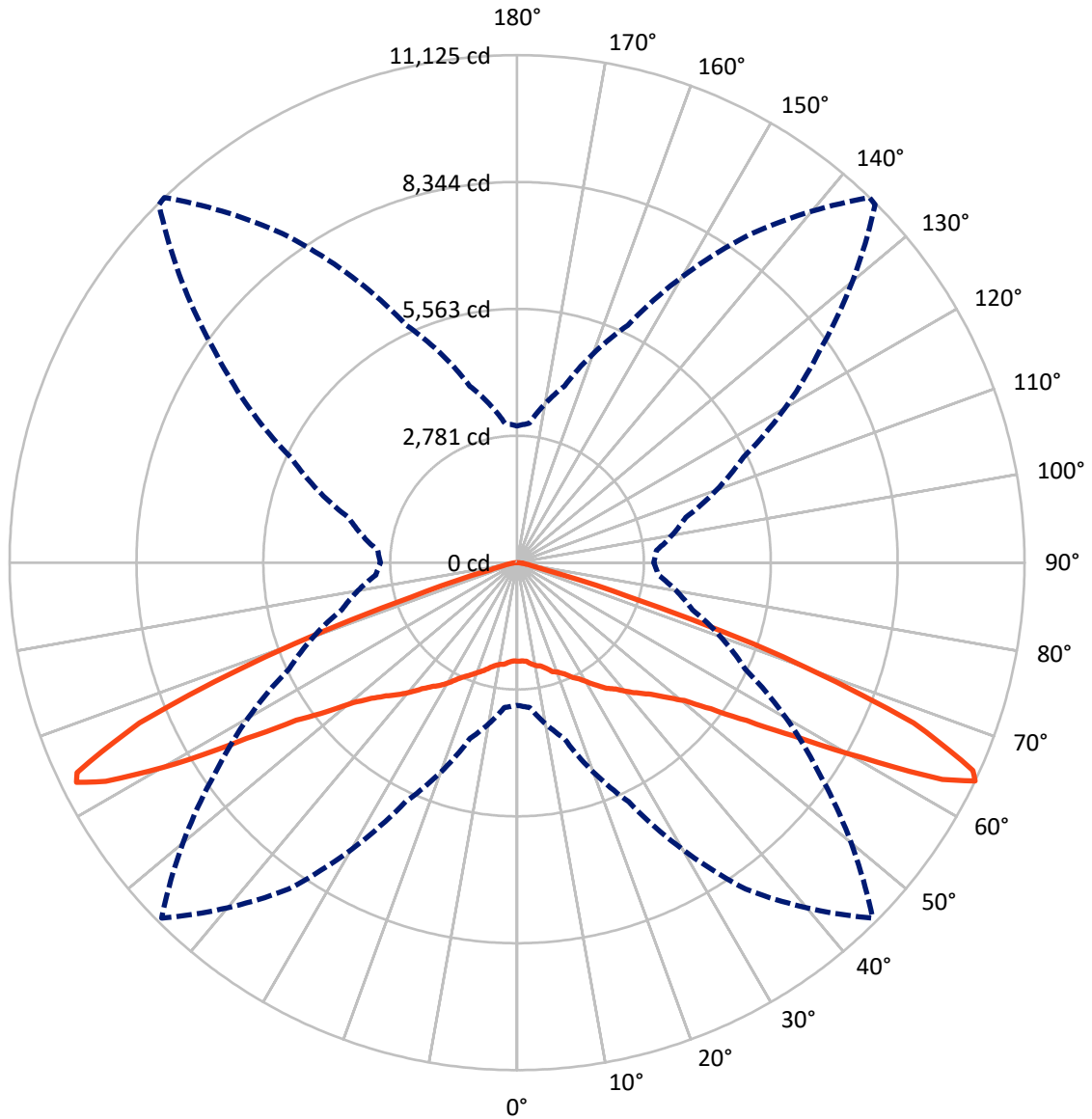
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9241.4   | 0.0    | 9241.4  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 9223.8   | 0.0    | 9223.8  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 18465.2  | 0.0    | 18465.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 212.4   | 1.2       |
| 10°-20°   | 684.6   | 3.7       |
| 20°-30°   | 1286.7  | 7.0       |
| 30°-40°   | 2122.0  | 11.5      |
| 40°-50°   | 3318.7  | 18.0      |
| 50°-60°   | 5362.2  | 29.0      |
| 60°-70°   | 4828.3  | 26.1      |
| 70°-80°   | 571.9   | 3.1       |
| 80°-90°   | 78.3    | 0.4       |
| 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°    | 18465.2 | 100.0     |
| 0°-180°   | 18465.2 | 100.0     |

**Coefficient of Utilization**



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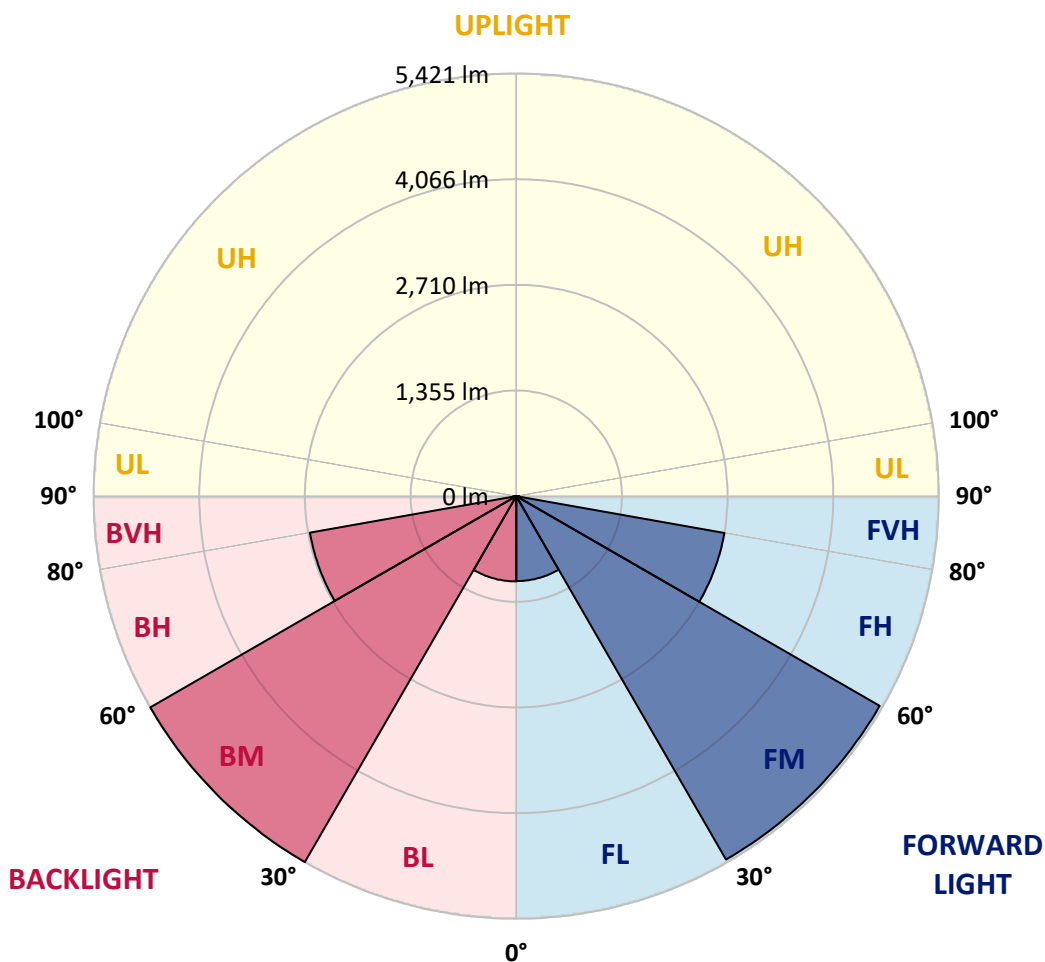
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1089.8 | 5.9       |                         |      |         |
| FM (30°-60°)   | 5382.0 | 29.1      |                         |      |         |
| FH (60°-80°)   | 2711.8 | 14.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 40.2   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 1094.0 | 5.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 5420.9 | 29.4      | B4/8500                 |      |         |
| BH (60°-80°)   | 2688.4 | 14.6      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 38.1   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 0°    | 2161.9 | 2161.9 | 2161.9 | 2161.9 | 2161.9 | 2161.9  | 2161.9 | 2161.9 | 2161.9 | 2161.9 | 2161.9 |
| 2.5°  | 2136.5 | 2140.7 | 2178.8 | 2164.0 | 2176.7 | 2153.4  | 2170.4 | 2206.4 | 2164.0 | 2195.8 | 2206.4 |
| 5°    | 2159.8 | 2166.1 | 2166.1 | 2181.0 | 2189.4 | 2185.2  | 2195.8 | 2181.0 | 2221.2 | 2204.2 | 2229.7 |
| 7.5°  | 2244.5 | 2233.9 | 2217.0 | 2229.7 | 2231.8 | 2242.4  | 2252.9 | 2272.0 | 2265.7 | 2250.8 | 2276.2 |
| 10°   | 2259.3 | 2250.8 | 2276.2 | 2278.4 | 2267.8 | 2259.3  | 2269.9 | 2269.9 | 2288.9 | 2293.2 | 2293.2 |
| 12.5° | 2284.7 | 2293.2 | 2291.1 | 2308.0 | 2310.1 | 2303.8  | 2320.7 | 2352.5 | 2344.0 | 2350.3 | 2335.5 |
| 15°   | 2382.1 | 2371.5 | 2369.4 | 2386.3 | 2413.9 | 2373.6  | 2403.3 | 2401.2 | 2392.7 | 2405.4 | 2371.5 |
| 17.5° | 2466.8 | 2432.9 | 2447.8 | 2475.3 | 2464.7 | 2473.2  | 2511.3 | 2477.4 | 2485.9 | 2471.0 | 2460.5 |
| 20°   | 2540.9 | 2513.4 | 2515.5 | 2526.1 | 2526.1 | 2551.5  | 2566.3 | 2553.6 | 2545.2 | 2543.0 | 2547.3 |
| 22.5° | 2623.5 | 2591.7 | 2593.9 | 2638.3 | 2653.1 | 2644.7  | 2634.1 | 2655.3 | 2659.5 | 2642.6 | 2661.6 |
| 25°   | 2684.9 | 2718.8 | 2729.4 | 2750.5 | 2718.8 | 2742.1  | 2733.6 | 2773.8 | 2799.2 | 2765.4 | 2788.7 |
| 27.5° | 2845.8 | 2831.0 | 2858.5 | 2856.4 | 2881.8 | 2858.5  | 2873.4 | 2886.1 | 2896.6 | 2898.8 | 2888.2 |
| 30°   | 2989.8 | 2996.2 | 2968.6 | 3042.7 | 2983.5 | 3021.6  | 3047.0 | 3053.3 | 3066.0 | 3066.0 | 3034.3 |
| 32.5° | 3142.3 | 3129.6 | 3174.0 | 3157.1 | 3146.5 | 3176.1  | 3148.6 | 3235.4 | 3184.6 | 3214.3 | 3178.3 |
| 35°   | 3313.8 | 3313.8 | 3330.7 | 3377.3 | 3313.8 | 3294.7  | 3345.5 | 3381.5 | 3381.5 | 3328.6 | 3341.3 |
| 37.5° | 3506.5 | 3489.5 | 3510.7 | 3570.0 | 3521.3 | 3457.8  | 3550.9 | 3565.8 | 3555.2 | 3540.3 | 3514.9 |
| 40°   | 3642.0 | 3637.7 | 3680.1 | 3758.4 | 3688.6 | 3675.9  | 3692.8 | 3733.0 | 3745.7 | 3760.6 | 3726.7 |
| 42.5° | 3870.7 | 3889.7 | 4012.5 | 3993.5 | 3936.3 | 3891.8  | 3887.6 | 4037.9 | 4001.9 | 3963.8 | 3944.8 |
| 45°   | 4209.5 | 4192.5 | 4256.0 | 4258.2 | 4184.0 | 4086.6  | 4107.8 | 4245.4 | 4306.9 | 4222.2 | 4253.9 |
| 47.5° | 4478.4 | 4486.8 | 4531.3 | 4622.4 | 4450.8 | 4349.2  | 4427.5 | 4649.9 | 4630.8 | 4599.1 | 4628.7 |
| 50°   | 4838.3 | 4876.4 | 5016.2 | 4984.4 | 4832.0 | 4707.0  | 4878.6 | 5088.2 | 5111.5 | 4995.0 | 4973.8 |
| 52.5° | 5335.9 | 5395.2 | 5471.4 | 5496.9 | 5350.7 | 5306.3  | 5316.9 | 5577.3 | 5520.1 | 5407.9 | 5335.9 |
| 55°   | 5772.1 | 5799.6 | 5939.4 | 6149.0 | 6138.4 | 5924.6  | 6047.4 | 6144.8 | 5911.9 | 5681.1 | 5700.1 |
| 57.5° | 5958.5 | 5971.2 | 6360.8 | 6780.0 | 7029.9 | 7078.6  | 6938.8 | 6610.6 | 6055.9 | 5611.2 | 5583.7 |
| 60°   | 5494.7 | 5615.4 | 6085.5 | 7032.0 | 8173.3 | 8736.5  | 7807.0 | 6663.6 | 5719.2 | 5179.2 | 5139.0 |
| 62.5° | 4391.6 | 4397.9 | 5096.7 | 6532.3 | 8884.7 | 10360.6 | 8139.4 | 6166.0 | 4821.4 | 4209.5 | 4048.5 |
| 64°   | 3127.4 | 3186.7 | 3989.2 | 5782.7 | 8736.5 | 11021.2 | 8099.2 | 5515.9 | 3974.4 | 3106.3 | 2994.0 |
| 65°   | 2244.5 | 2327.1 | 3102.0 | 5020.4 | 8389.3 | 10942.9 | 7978.5 | 4956.9 | 3214.3 | 2371.5 | 2257.2 |
| 67.5° | 825.8  | 859.7  | 1217.5 | 2511.3 | 6024.1 | 9325.2  | 6322.6 | 2725.1 | 1412.3 | 1005.8 | 904.1  |
| 70°   | 383.3  | 385.4  | 451.0  | 830.0  | 2634.1 | 6235.8  | 3017.3 | 1022.7 | 531.5  | 421.4  | 391.7  |
| 72.5° | 281.6  | 288.0  | 315.5  | 383.3  | 775.0  | 2640.4  | 991.0  | 419.3  | 311.3  | 275.3  | 268.9  |
| 75°   | 228.7  | 232.9  | 241.4  | 277.4  | 357.8  | 707.2   | 402.3  | 290.1  | 247.7  | 222.3  | 213.9  |
| 77.5° | 175.7  | 175.7  | 194.8  | 211.7  | 237.2  | 330.3   | 266.8  | 230.8  | 201.2  | 175.7  | 169.4  |
| 80°   | 127.0  | 129.2  | 152.5  | 165.2  | 160.9  | 218.1   | 192.7  | 190.6  | 165.2  | 137.6  | 127.0  |
| 82.5° | 74.1   | 80.5   | 110.1  | 118.6  | 114.3  | 129.2   | 139.8  | 148.2  | 129.2  | 95.3   | 86.8   |
| 85°   | 42.3   | 44.5   | 63.5   | 65.6   | 65.6   | 61.4    | 80.5   | 88.9   | 86.8   | 59.3   | 52.9   |
| 87.5° | 12.7   | 12.7   | 16.9   | 16.9   | 19.1   | 21.2    | 31.8   | 38.1   | 42.3   | 29.6   | 27.5   |
| 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°    | 136°    | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 0°    | 2161.9 | 2161.9 | 2161.9 | 2161.9 | 2161.9  | 2161.9  | 2161.9 | 2161.9 | 2161.9 | 2161.9 | 2161.9 |
| 2.5°  | 2195.8 | 2164.0 | 2166.1 | 2174.6 | 2147.1  | 2157.7  | 2189.4 | 2166.1 | 2159.8 | 2147.1 | 2140.7 |
| 5°    | 2185.2 | 2219.1 | 2206.4 | 2210.6 | 2204.2  | 2174.6  | 2170.4 | 2189.4 | 2200.0 | 2181.0 | 2219.1 |
| 7.5°  | 2259.3 | 2244.5 | 2227.5 | 2233.9 | 2219.1  | 2244.5  | 2261.4 | 2223.3 | 2242.4 | 2231.8 | 2210.6 |
| 10°   | 2301.6 | 2274.1 | 2286.8 | 2282.6 | 2272.0  | 2297.4  | 2280.5 | 2276.2 | 2259.3 | 2236.0 | 2269.9 |
| 12.5° | 2316.5 | 2348.2 | 2369.4 | 2333.4 | 2339.8  | 2327.1  | 2316.5 | 2316.5 | 2297.4 | 2291.1 | 2297.4 |
| 15°   | 2382.1 | 2409.6 | 2401.2 | 2428.7 | 2392.7  | 2405.4  | 2418.1 | 2386.3 | 2403.3 | 2356.7 | 2392.7 |
| 17.5° | 2502.8 | 2479.5 | 2509.2 | 2473.2 | 2485.9  | 2511.3  | 2471.0 | 2471.0 | 2483.7 | 2458.3 | 2426.6 |
| 20°   | 2579.0 | 2568.4 | 2557.9 | 2560.0 | 2538.8  | 2562.1  | 2549.4 | 2543.0 | 2524.0 | 2532.4 | 2549.4 |
| 22.5° | 2651.0 | 2636.2 | 2640.4 | 2646.8 | 2661.6  | 2651.0  | 2644.7 | 2651.0 | 2604.4 | 2646.8 | 2587.5 |
| 25°   | 2740.0 | 2780.2 | 2767.5 | 2795.0 | 2752.7  | 2780.2  | 2778.1 | 2737.8 | 2763.2 | 2746.3 | 2733.6 |
| 27.5° | 2888.2 | 2867.0 | 2886.1 | 2852.2 | 2881.8  | 2883.9  | 2858.5 | 2926.3 | 2896.6 | 2892.4 | 2883.9 |
| 30°   | 3078.7 | 3063.9 | 3051.2 | 3032.2 | 3055.5  | 3036.4  | 3057.6 | 3063.9 | 3036.4 | 3015.2 | 2975.0 |
| 32.5° | 3186.7 | 3227.0 | 3241.8 | 3195.2 | 3197.3  | 3207.9  | 3188.9 | 3169.8 | 3186.7 | 3193.1 | 3186.7 |
| 35°   | 3339.2 | 3377.3 | 3385.8 | 3349.8 | 3330.7  | 3383.7  | 3345.5 | 3409.1 | 3354.0 | 3356.1 | 3299.0 |
| 37.5° | 3517.1 | 3527.6 | 3599.6 | 3559.4 | 3542.5  | 3517.1  | 3586.9 | 3578.5 | 3591.2 | 3489.5 | 3540.3 |
| 40°   | 3718.2 | 3756.3 | 3796.6 | 3694.9 | 3692.8  | 3716.1  | 3711.9 | 3760.6 | 3737.3 | 3722.4 | 3686.4 |
| 42.5° | 3938.4 | 4018.9 | 4025.2 | 3957.5 | 3915.1  | 3910.9  | 3932.1 | 4040.1 | 4042.2 | 3944.8 | 3902.4 |
| 45°   | 4230.6 | 4319.6 | 4296.3 | 4165.0 | 4118.4  | 4112.1  | 4215.8 | 4262.4 | 4302.6 | 4264.5 | 4228.5 |
| 47.5° | 4594.8 | 4654.1 | 4637.2 | 4516.5 | 4366.1  | 4408.5  | 4510.1 | 4656.2 | 4613.9 | 4563.1 | 4520.7 |
| 50°   | 4984.4 | 5054.3 | 5018.3 | 4897.6 | 4753.6  | 4753.6  | 4878.6 | 5064.9 | 5052.2 | 4952.7 | 4914.6 |
| 52.5° | 5416.4 | 5518.0 | 5600.6 | 5429.1 | 5308.4  | 5327.5  | 5524.4 | 5592.1 | 5560.4 | 5490.5 | 5458.7 |
| 55°   | 5738.2 | 5933.0 | 6102.4 | 6110.9 | 6117.3  | 6115.1  | 6166.0 | 6233.7 | 6007.2 | 5894.9 | 5780.6 |
| 57.5° | 5659.9 | 6028.3 | 6608.5 | 7002.3 | 7118.8  | 7180.2  | 7163.3 | 6849.9 | 6314.2 | 5945.7 | 5983.9 |
| 60°   | 5100.9 | 5702.2 | 6638.1 | 7902.3 | 8749.2  | 8664.5  | 8355.4 | 7116.7 | 6144.8 | 5522.3 | 5443.9 |
| 62.5° | 4069.7 | 4793.9 | 6140.5 | 8156.3 | 10489.8 | 10464.3 | 8846.6 | 6500.5 | 5119.9 | 4332.3 | 4283.6 |
| 64°   | 3066.0 | 3828.3 | 5477.8 | 8090.7 | 11099.6 | 11125.0 | 8721.7 | 5742.5 | 4006.2 | 3066.0 | 2991.9 |
| 65°   | 2346.1 | 3053.3 | 4827.7 | 7955.2 | 10968.3 | 10983.1 | 8374.4 | 4959.0 | 3044.9 | 2176.7 | 2096.3 |
| 67.5° | 933.8  | 1300.1 | 2619.3 | 6032.6 | 9418.3  | 9378.1  | 5975.4 | 2399.0 | 1164.6 | 758.0  | 743.2  |
| 70°   | 398.1  | 495.5  | 919.0  | 2858.5 | 6305.7  | 6189.3  | 2572.7 | 779.2  | 432.0  | 362.1  | 360.0  |
| 72.5° | 273.1  | 302.8  | 393.8  | 883.0  | 2621.4  | 2560.0  | 732.6  | 362.1  | 294.3  | 271.0  | 271.0  |
| 75°   | 220.2  | 241.4  | 285.9  | 370.6  | 694.5   | 669.1   | 345.1  | 266.8  | 235.0  | 218.1  | 216.0  |
| 77.5° | 171.5  | 192.7  | 224.4  | 256.2  | 317.6   | 315.5   | 230.8  | 201.2  | 182.1  | 169.4  | 165.2  |
| 80°   | 135.5  | 156.7  | 177.9  | 182.1  | 207.5   | 203.3   | 156.7  | 158.8  | 148.2  | 122.8  | 120.7  |
| 82.5° | 93.2   | 127.0  | 141.9  | 129.2  | 122.8   | 122.8   | 112.2  | 112.2  | 103.8  | 76.2   | 69.9   |
| 85°   | 57.2   | 84.7   | 88.9   | 76.2   | 57.2    | 57.2    | 61.4   | 59.3   | 55.1   | 40.2   | 38.1   |
| 87.5° | 29.6   | 40.2   | 36.0   | 29.6   | 19.1    | 19.1    | 16.9   | 12.7   | 12.7   | 10.6   | 10.6   |
| 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)