

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: P479069

Luminaire Tested: **IFLD-S-SA6B-827-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479069  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-827-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ  
distribution lens  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

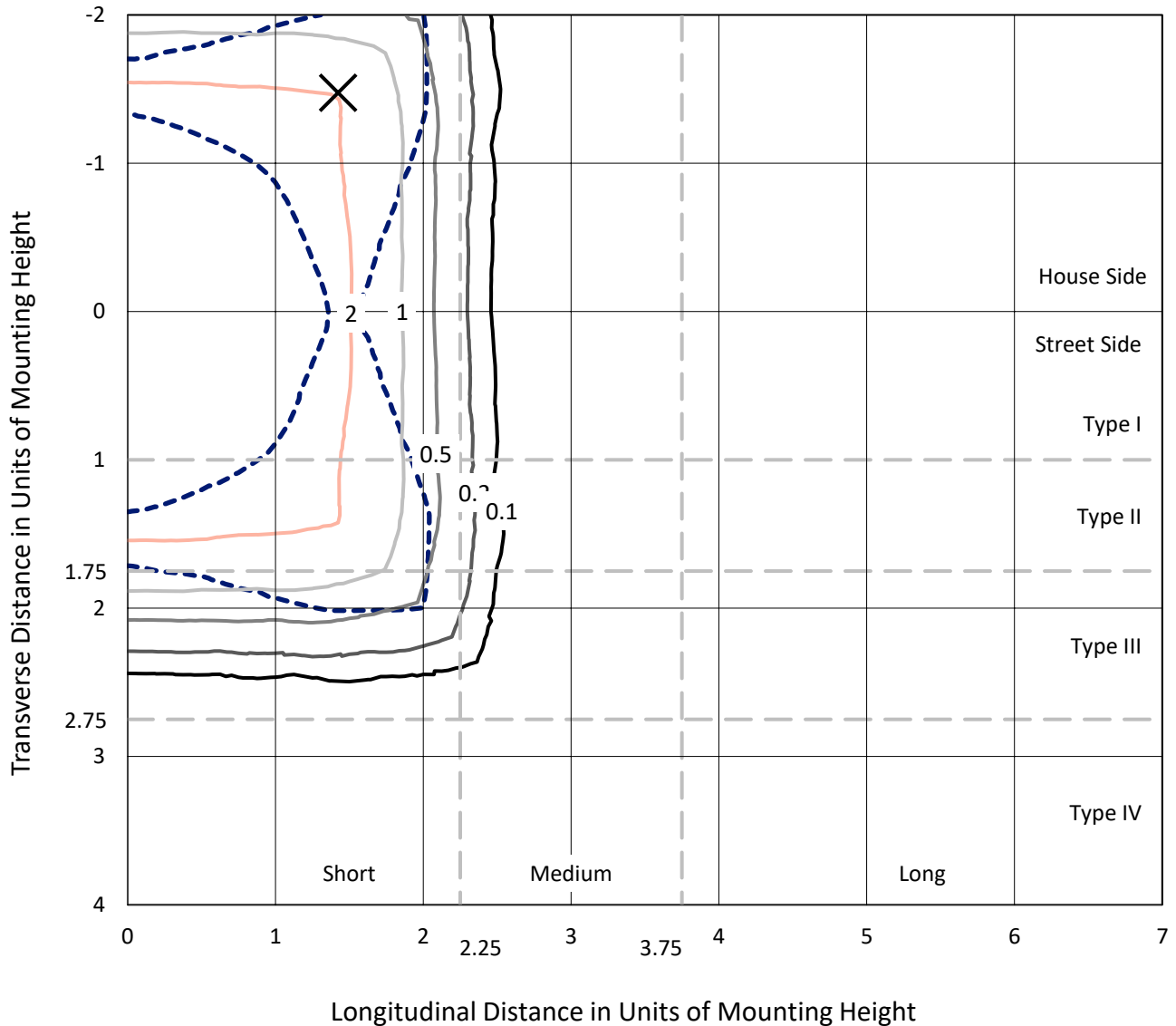
Lumens per Lamp: N/A  
Luminaire Lumens: 24472.9 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 244.9  
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

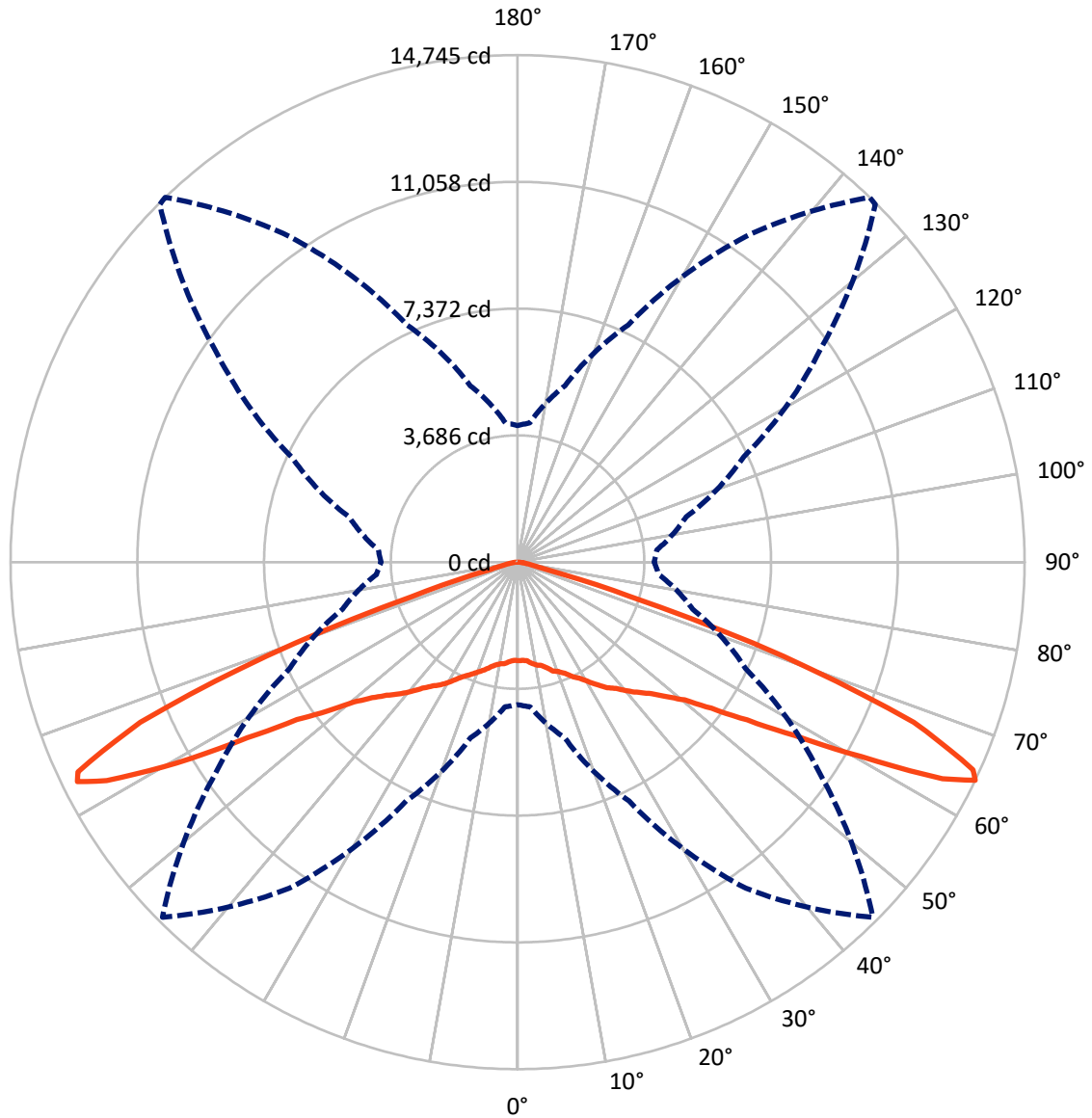
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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    | 12248.1  | 0.0    | 12248.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 12224.8  | 0.0    | 12224.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 24472.9  | 0.0    | 24472.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 281.5   | 1.2       |
| 10°-20°   | 907.4   | 3.7       |
| 20°-30°   | 1705.4  | 7.0       |
| 30°-40°   | 2812.4  | 11.5      |
| 40°-50°   | 4398.4  | 18.0      |
| 50°-60°   | 7106.8  | 29.0      |
| 60°-70°   | 6399.2  | 26.1      |
| 70°-80°   | 758.0   | 3.1       |
| 80°-90°   | 103.8   | 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°    | 24472.9 | 100.0     |
| 0°-180°   | 24472.9 | 100.0     |

**Coefficient of Utilization**



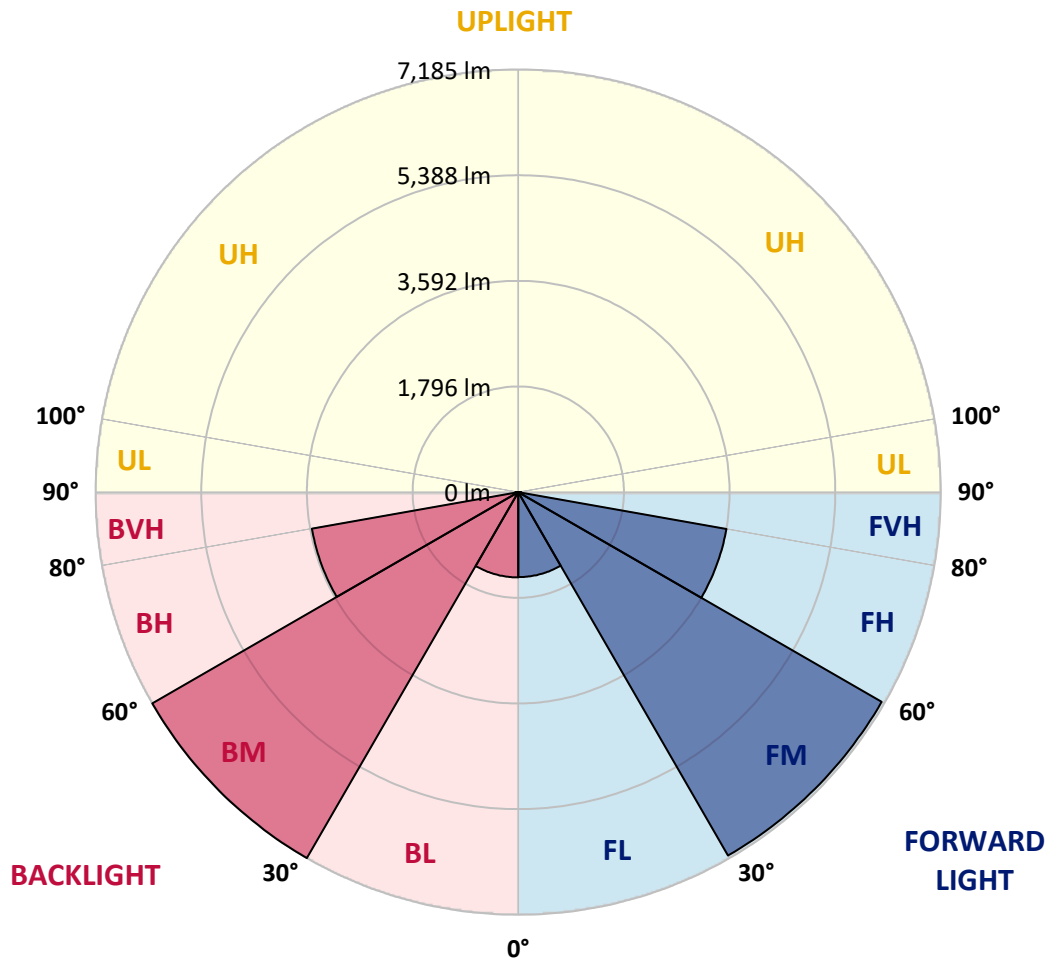
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1444.4 | 5.9       |                         |      |         |
| FM (30°-60°)   | 7133.1 | 29.1      |                         |      |         |
| FH (60°-80°)   | 3594.1 | 14.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 53.2   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 1449.9 | 5.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 7184.6 | 29.4      | B4/8500                 |      |         |
| BH (60°-80°)   | 3563.1 | 14.6      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 50.5   | 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°    | 2865.3 | 2865.3 | 2865.3 | 2865.3 | 2865.3  | 2865.3  | 2865.3  | 2865.3 | 2865.3 | 2865.3 | 2865.3 |
| 2.5°  | 2831.6 | 2837.2 | 2887.7 | 2868.1 | 2884.9  | 2854.1  | 2876.5  | 2924.2 | 2868.1 | 2910.2 | 2924.2 |
| 5°    | 2862.5 | 2870.9 | 2870.9 | 2890.5 | 2901.8  | 2896.1  | 2910.2  | 2890.5 | 2943.9 | 2921.4 | 2955.1 |
| 7.5°  | 2974.7 | 2960.7 | 2938.2 | 2955.1 | 2957.9  | 2971.9  | 2986.0  | 3011.2 | 3002.8 | 2983.1 | 3016.8 |
| 10°   | 2994.4 | 2983.1 | 3016.8 | 3019.6 | 3005.6  | 2994.4  | 3008.4  | 3008.4 | 3033.7 | 3039.3 | 3039.3 |
| 12.5° | 3028.0 | 3039.3 | 3036.5 | 3058.9 | 3061.7  | 3053.3  | 3075.8  | 3117.9 | 3106.6 | 3115.0 | 3095.4 |
| 15°   | 3157.1 | 3143.1 | 3140.3 | 3162.8 | 3199.2  | 3145.9  | 3185.2  | 3182.4 | 3171.2 | 3188.0 | 3143.1 |
| 17.5° | 3269.4 | 3224.5 | 3244.1 | 3280.6 | 3266.6  | 3277.8  | 3328.3  | 3283.4 | 3294.7 | 3275.0 | 3261.0 |
| 20°   | 3367.6 | 3331.1 | 3333.9 | 3348.0 | 3348.0  | 3381.6  | 3401.3  | 3384.5 | 3373.2 | 3370.4 | 3376.0 |
| 22.5° | 3477.1 | 3435.0 | 3437.8 | 3496.7 | 3516.4  | 3505.1  | 3491.1  | 3519.2 | 3524.8 | 3502.3 | 3527.6 |
| 25°   | 3558.4 | 3603.3 | 3617.4 | 3645.4 | 3603.3  | 3634.2  | 3623.0  | 3676.3 | 3710.0 | 3665.1 | 3696.0 |
| 27.5° | 3771.7 | 3752.1 | 3788.6 | 3785.8 | 3819.4  | 3788.6  | 3808.2  | 3825.0 | 3839.1 | 3841.9 | 3827.9 |
| 30°   | 3962.6 | 3971.0 | 3934.5 | 4032.7 | 3954.1  | 4004.7  | 4038.3  | 4046.8 | 4063.6 | 4063.6 | 4021.5 |
| 32.5° | 4164.6 | 4147.8 | 4206.7 | 4184.3 | 4170.2  | 4209.5  | 4173.0  | 4288.1 | 4220.7 | 4260.0 | 4212.3 |
| 35°   | 4391.9 | 4391.9 | 4414.4 | 4476.1 | 4391.9  | 4366.7  | 4434.0  | 4481.7 | 4481.7 | 4411.6 | 4428.4 |
| 37.5° | 4647.3 | 4624.9 | 4652.9 | 4731.5 | 4667.0  | 4582.8  | 4706.2  | 4725.9 | 4711.9 | 4692.2 | 4658.5 |
| 40°   | 4826.9 | 4821.3 | 4877.4 | 4981.3 | 4888.7  | 4871.8  | 4894.3  | 4947.6 | 4964.4 | 4984.1 | 4939.2 |
| 42.5° | 5130.0 | 5155.3 | 5318.0 | 5292.8 | 5217.0  | 5158.1  | 5152.5  | 5351.7 | 5304.0 | 5253.5 | 5228.2 |
| 45°   | 5579.0 | 5556.6 | 5640.8 | 5643.6 | 5545.3  | 5416.2  | 5444.3  | 5626.7 | 5708.1 | 5595.9 | 5637.9 |
| 47.5° | 5935.4 | 5946.6 | 6005.6 | 6126.3 | 5898.9  | 5764.2  | 5868.1  | 6162.7 | 6137.5 | 6095.4 | 6134.7 |
| 50°   | 6412.5 | 6463.0 | 6648.2 | 6606.1 | 6404.1  | 6238.5  | 6465.8  | 6743.6 | 6774.5 | 6620.2 | 6592.1 |
| 52.5° | 7072.0 | 7150.6 | 7251.6 | 7285.3 | 7091.6  | 7032.7  | 7046.7  | 7391.9 | 7316.1 | 7167.4 | 7072.0 |
| 55°   | 7650.1 | 7686.6 | 7871.8 | 8149.6 | 8135.6  | 7852.2  | 8014.9  | 8144.0 | 7835.3 | 7529.4 | 7554.7 |
| 57.5° | 7897.1 | 7913.9 | 8430.3 | 8985.9 | 9317.1  | 9381.6  | 9196.4  | 8761.4 | 8026.1 | 7436.8 | 7400.3 |
| 60°   | 7282.5 | 7442.4 | 8065.4 | 9319.9 | 10832.5 | 11579.0 | 10347.0 | 8831.6 | 7579.9 | 6864.3 | 6811.0 |
| 62.5° | 5820.4 | 5828.8 | 6754.9 | 8657.6 | 11775.4 | 13731.5 | 10787.6 | 8172.1 | 6390.0 | 5579.0 | 5365.7 |
| 64°   | 4145.0 | 4223.6 | 5287.2 | 7664.1 | 11579.0 | 14607.0 | 10734.3 | 7310.5 | 5267.5 | 4116.9 | 3968.2 |
| 65°   | 2974.7 | 3084.2 | 4111.3 | 6653.8 | 11118.7 | 14503.2 | 10574.3 | 6569.7 | 4260.0 | 3143.1 | 2991.6 |
| 67.5° | 1094.5 | 1139.4 | 1613.6 | 3328.3 | 7984.1  | 12359.1 | 8379.7  | 3611.8 | 1871.8 | 1333.0 | 1198.3 |
| 70°   | 507.9  | 510.8  | 597.8  | 1100.1 | 3491.1  | 8264.7  | 3999.0  | 1355.5 | 704.4  | 558.5  | 519.2  |
| 72.5° | 373.2  | 381.7  | 418.1  | 507.9  | 1027.1  | 3499.5  | 1313.4  | 555.7  | 412.5  | 364.8  | 356.4  |
| 75°   | 303.1  | 308.7  | 319.9  | 367.6  | 474.3   | 937.3   | 533.2   | 384.5  | 328.3  | 294.7  | 283.4  |
| 77.5° | 232.9  | 232.9  | 258.2  | 280.6  | 314.3   | 437.8   | 353.6   | 305.9  | 266.6  | 232.9  | 224.5  |
| 80°   | 168.4  | 171.2  | 202.1  | 218.9  | 213.3   | 289.1   | 255.4   | 252.6  | 218.9  | 182.4  | 168.4  |
| 82.5° | 98.2   | 106.6  | 145.9  | 157.2  | 151.5   | 171.2   | 185.2   | 196.4  | 171.2  | 126.3  | 115.1  |
| 85°   | 56.1   | 58.9   | 84.2   | 87.0   | 87.0    | 81.4    | 106.6   | 117.9  | 115.1  | 78.6   | 70.2   |
| 87.5° | 16.8   | 16.8   | 22.5   | 22.5   | 25.3    | 28.1    | 42.1    | 50.5   | 56.1   | 39.3   | 36.5   |
| 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°    | 2865.3 | 2865.3 | 2865.3 | 2865.3  | 2865.3  | 2865.3  | 2865.3  | 2865.3 | 2865.3 | 2865.3 | 2865.3 |
| 2.5°  | 2910.2 | 2868.1 | 2870.9 | 2882.1  | 2845.6  | 2859.7  | 2901.8  | 2870.9 | 2862.5 | 2845.6 | 2837.2 |
| 5°    | 2896.1 | 2941.1 | 2924.2 | 2929.8  | 2921.4  | 2882.1  | 2876.5  | 2901.8 | 2915.8 | 2890.5 | 2941.1 |
| 7.5°  | 2994.4 | 2974.7 | 2952.3 | 2960.7  | 2941.1  | 2974.7  | 2997.2  | 2946.7 | 2971.9 | 2957.9 | 2929.8 |
| 10°   | 3050.5 | 3014.0 | 3030.9 | 3025.2  | 3011.2  | 3044.9  | 3022.4  | 3016.8 | 2994.4 | 2963.5 | 3008.4 |
| 12.5° | 3070.1 | 3112.2 | 3140.3 | 3092.6  | 3101.0  | 3084.2  | 3070.1  | 3070.1 | 3044.9 | 3036.5 | 3044.9 |
| 15°   | 3157.1 | 3193.6 | 3182.4 | 3218.9  | 3171.2  | 3188.0  | 3204.8  | 3162.8 | 3185.2 | 3123.5 | 3171.2 |
| 17.5° | 3317.1 | 3286.2 | 3325.5 | 3277.8  | 3294.7  | 3328.3  | 3275.0  | 3275.0 | 3291.8 | 3258.2 | 3216.1 |
| 20°   | 3418.1 | 3404.1 | 3390.1 | 3392.9  | 3364.8  | 3395.7  | 3378.8  | 3370.4 | 3345.2 | 3356.4 | 3378.8 |
| 22.5° | 3513.5 | 3493.9 | 3499.5 | 3507.9  | 3527.6  | 3513.5  | 3505.1  | 3513.5 | 3451.8 | 3507.9 | 3429.4 |
| 25°   | 3631.4 | 3684.7 | 3667.9 | 3704.4  | 3648.2  | 3684.7  | 3681.9  | 3628.6 | 3662.3 | 3639.8 | 3623.0 |
| 27.5° | 3827.9 | 3799.8 | 3825.0 | 3780.1  | 3819.4  | 3822.2  | 3788.6  | 3878.4 | 3839.1 | 3833.5 | 3822.2 |
| 30°   | 4080.4 | 4060.8 | 4043.9 | 4018.7  | 4049.6  | 4024.3  | 4052.4  | 4060.8 | 4024.3 | 3996.2 | 3942.9 |
| 32.5° | 4223.6 | 4276.9 | 4296.5 | 4234.8  | 4237.6  | 4251.6  | 4226.4  | 4201.1 | 4223.6 | 4232.0 | 4223.6 |
| 35°   | 4425.6 | 4476.1 | 4487.3 | 4439.6  | 4414.4  | 4484.5  | 4434.0  | 4518.2 | 4445.3 | 4448.1 | 4372.3 |
| 37.5° | 4661.3 | 4675.4 | 4770.8 | 4717.5  | 4695.0  | 4661.3  | 4753.9  | 4742.7 | 4759.6 | 4624.9 | 4692.2 |
| 40°   | 4927.9 | 4978.5 | 5031.8 | 4897.1  | 4894.3  | 4925.1  | 4919.5  | 4984.1 | 4953.2 | 4933.6 | 4885.8 |
| 42.5° | 5219.8 | 5326.4 | 5334.9 | 5245.1  | 5188.9  | 5183.3  | 5211.4  | 5354.5 | 5357.3 | 5228.2 | 5172.1 |
| 45°   | 5607.1 | 5724.9 | 5694.1 | 5520.1  | 5458.3  | 5449.9  | 5587.4  | 5649.2 | 5702.5 | 5652.0 | 5604.3 |
| 47.5° | 6089.8 | 6168.3 | 6145.9 | 5985.9  | 5786.7  | 5842.8  | 5977.5  | 6171.2 | 6115.0 | 6047.7 | 5991.5 |
| 50°   | 6606.1 | 6698.7 | 6651.0 | 6491.1  | 6300.2  | 6300.2  | 6465.8  | 6712.8 | 6695.9 | 6564.0 | 6513.5 |
| 52.5° | 7178.6 | 7313.3 | 7422.8 | 7195.5  | 7035.5  | 7060.8  | 7321.8  | 7411.6 | 7369.5 | 7276.9 | 7234.8 |
| 55°   | 7605.2 | 7863.4 | 8087.9 | 8099.1  | 8107.5  | 8104.7  | 8172.1  | 8261.9 | 7961.6 | 7812.9 | 7661.3 |
| 57.5° | 7501.4 | 7989.7 | 8758.6 | 9280.6  | 9434.9  | 9516.3  | 9493.9  | 9078.5 | 8368.5 | 7880.2 | 7930.7 |
| 60°   | 6760.5 | 7557.5 | 8797.9 | 10473.3 | 11595.8 | 11483.6 | 11073.8 | 9432.1 | 8144.0 | 7319.0 | 7215.1 |
| 62.5° | 5393.8 | 6353.6 | 8138.4 | 10810.0 | 13902.6 | 13869.0 | 11724.9 | 8615.5 | 6785.7 | 5741.8 | 5677.2 |
| 64°   | 4063.6 | 5073.9 | 7260.0 | 10723.0 | 14710.9 | 14744.5 | 11559.3 | 7610.8 | 5309.6 | 4063.6 | 3965.4 |
| 65°   | 3109.4 | 4046.8 | 6398.5 | 10543.4 | 14536.9 | 14556.5 | 11099.1 | 6572.5 | 4035.5 | 2884.9 | 2778.3 |
| 67.5° | 1237.6 | 1723.1 | 3471.4 | 7995.3  | 12482.6 | 12429.3 | 7919.5  | 3179.6 | 1543.5 | 1004.7 | 985.0  |
| 70°   | 527.6  | 656.7  | 1218.0 | 3788.6  | 8357.3  | 8202.9  | 3409.7  | 1032.7 | 572.5  | 479.9  | 477.1  |
| 72.5° | 362.0  | 401.3  | 522.0  | 1170.2  | 3474.3  | 3392.9  | 971.0   | 479.9  | 390.1  | 359.2  | 359.2  |
| 75°   | 291.9  | 319.9  | 378.9  | 491.1   | 920.5   | 886.8   | 457.4   | 353.6  | 311.5  | 289.1  | 286.2  |
| 77.5° | 227.3  | 255.4  | 297.5  | 339.6   | 421.0   | 418.1   | 305.9   | 266.6  | 241.3  | 224.5  | 218.9  |
| 80°   | 179.6  | 207.7  | 235.7  | 241.3   | 275.0   | 269.4   | 207.7   | 210.5  | 196.4  | 162.8  | 160.0  |
| 82.5° | 123.5  | 168.4  | 188.0  | 171.2   | 162.8   | 162.8   | 148.7   | 148.7  | 137.5  | 101.0  | 92.6   |
| 85°   | 75.8   | 112.3  | 117.9  | 101.0   | 75.8    | 75.8    | 81.4    | 78.6   | 73.0   | 53.3   | 50.5   |
| 87.5° | 39.3   | 53.3   | 47.7   | 39.3    | 25.3    | 25.3    | 22.5    | 16.8   | 16.8   | 14.0   | 14.0   |
| 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)