

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: P483204

Luminaire Tested: **IFLD-S-SA6C-735-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483204  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-735-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

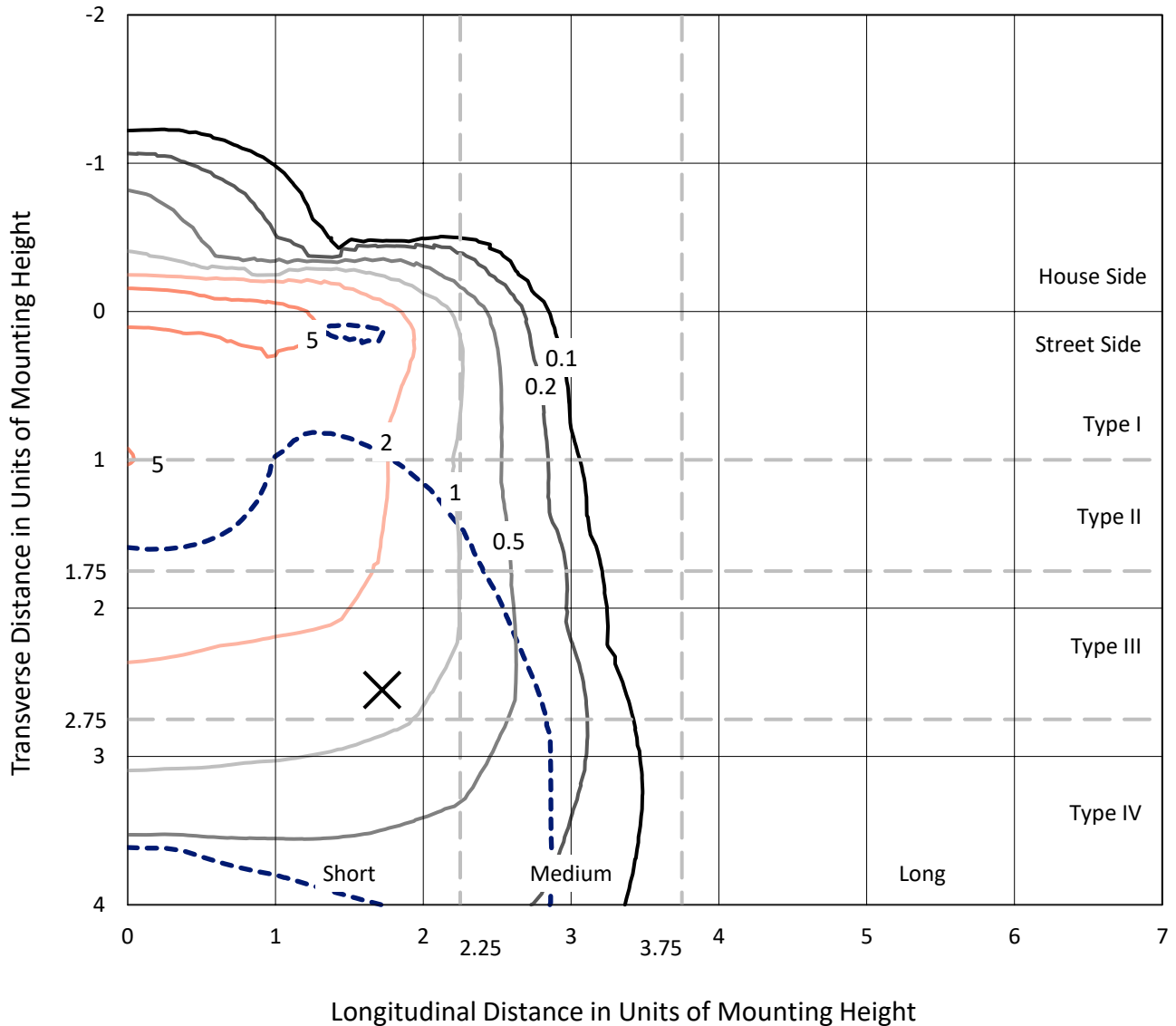
Lumens per Lamp: N/A  
Luminaire Lumens: 29634 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5  
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

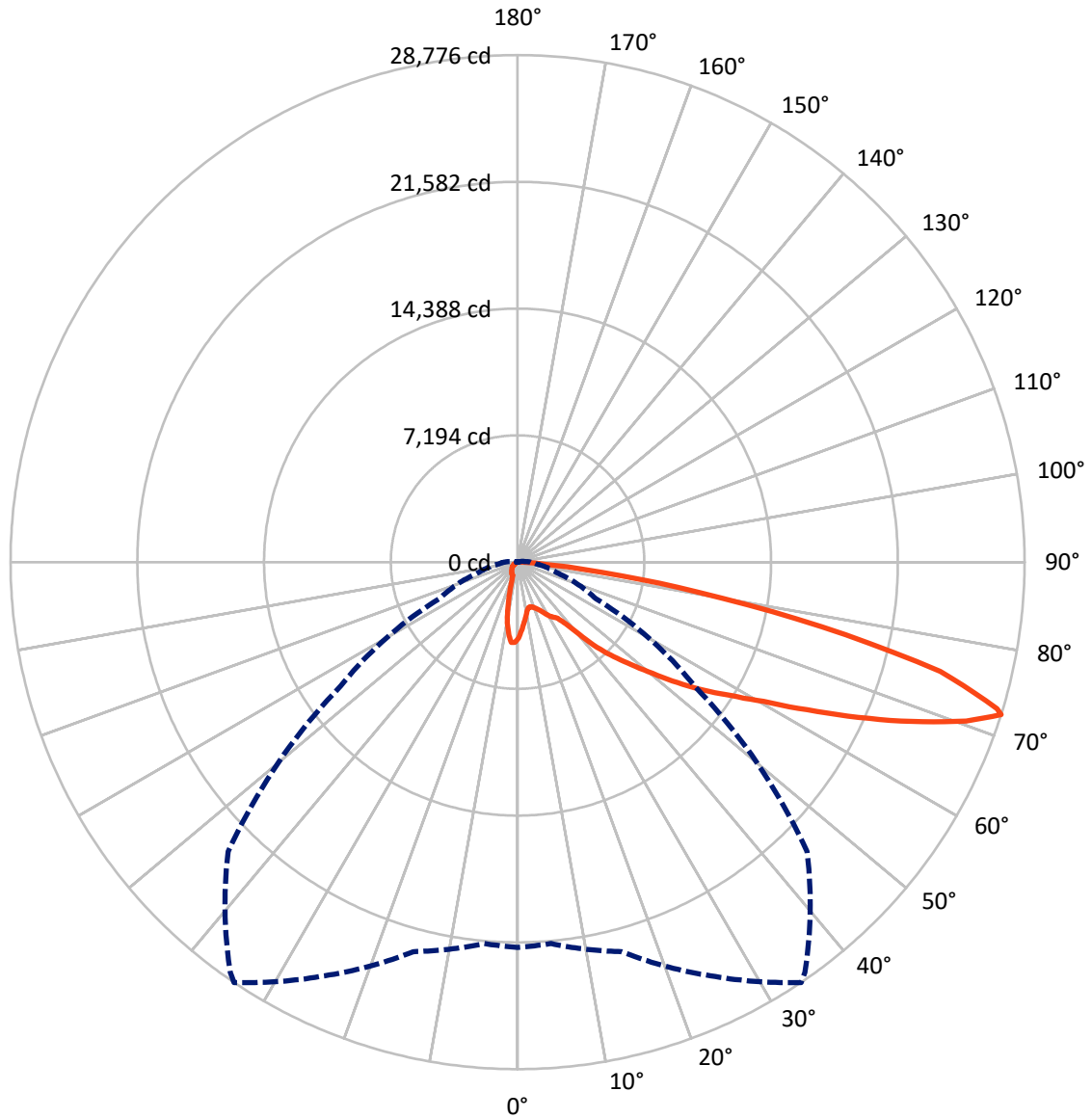
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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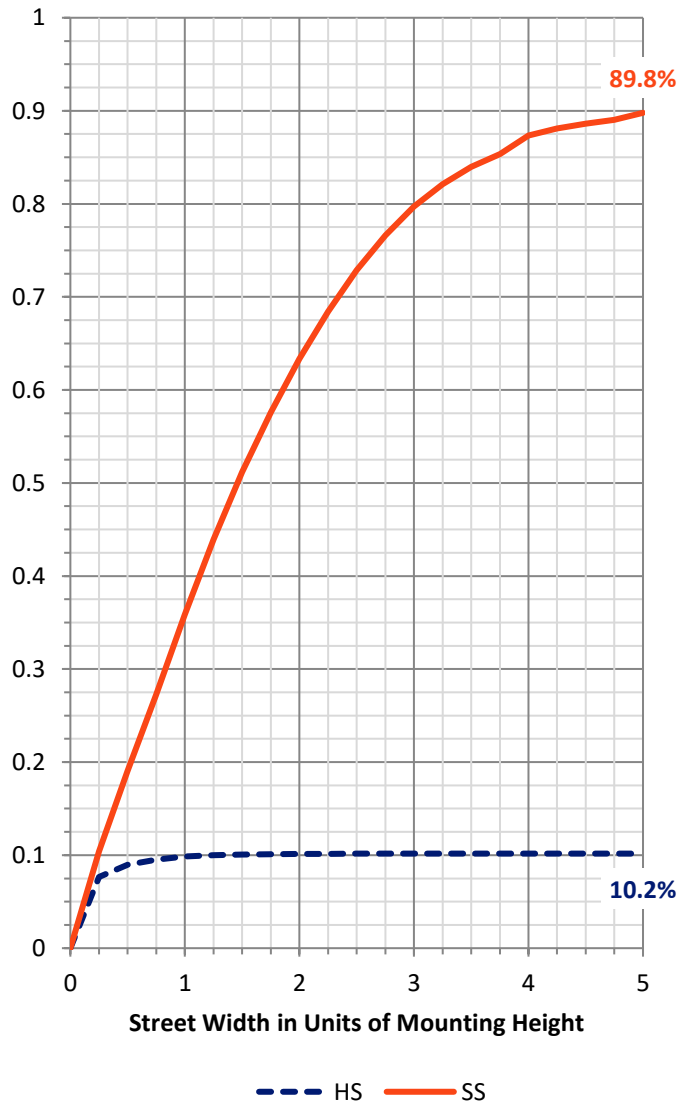
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3033.8   | 0.0    | 3033.8  |
|                    | % Fixture | 10.2     | 0.0    | 10.2    |
| <b>Street Side</b> | Lumens    | 26600.2  | 0.0    | 26600.2 |
|                    | % Fixture | 89.8     | 0.0    | 89.8    |
| <b>Total</b>       | Lumens    | 29634.0  | 0.0    | 29634.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 376.4   | 1.3       |
| 10°-20°   | 852.1   | 2.9       |
| 20°-30°   | 1286.1  | 4.3       |
| 30°-40°   | 2087.1  | 7.0       |
| 40°-50°   | 3924.7  | 13.2      |
| 50°-60°   | 6416.9  | 21.7      |
| 60°-70°   | 8530.4  | 28.8      |
| 70°-80°   | 5712.7  | 19.3      |
| 80°-90°   | 447.7   | 1.5       |
| 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°    | 29634.0 | 100.0     |
| 0°-180°   | 29634.0 | 100.0     |

**Coefficient of Utilization**



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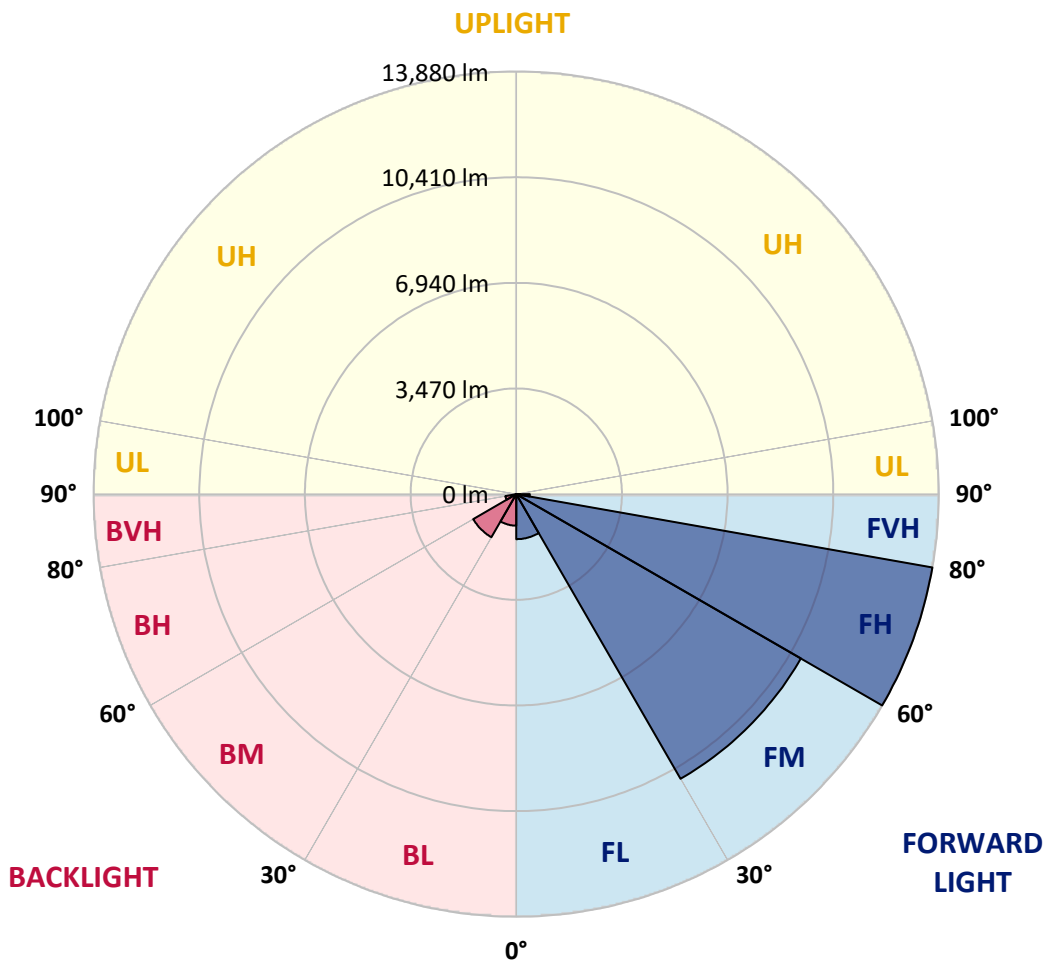
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 1479.4  | 5.0       |                         |      |        |
| FM (30°-60°)   | 10795.6 | 36.4      |                         |      |        |
| FH (60°-80°)   | 13880.3 | 46.8      |                         |      | G5     |
| FVH (80°-90°)  | 444.9   | 1.5       |                         |      | G3/500 |
| BL (0°-30°)    | 1035.1  | 3.5       | B3/2500                 |      |        |
| BM (30°-60°)   | 1633.1  | 5.5       | B2/2500                 |      |        |
| BH (60°-80°)   | 362.8   | 1.2       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 2.8     | 0.0       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 34°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4335.5  | 4335.5  | 4335.5  | 4335.5  | 4335.5  | 4335.5  | 4335.5  | 4335.5  | 4335.5  | 4335.5  | 4335.5  |
| 2.5°  | 3834.2  | 3825.7  | 3851.4  | 3894.2  | 3937.1  | 3919.9  | 4001.3  | 4087.0  | 4147.0  | 4228.4  | 4326.9  |
| 5°    | 3350.1  | 3371.6  | 3397.3  | 3482.9  | 3538.6  | 3551.5  | 3701.4  | 3812.8  | 3997.0  | 4185.5  | 4361.2  |
| 7.5°  | 2908.9  | 2934.6  | 2986.0  | 3080.2  | 3195.9  | 3225.9  | 3375.8  | 3598.6  | 3838.5  | 4087.0  | 4374.0  |
| 10°   | 2587.6  | 2613.3  | 2669.0  | 2729.0  | 2883.2  | 2883.2  | 3088.8  | 3397.3  | 3710.0  | 4001.3  | 4378.3  |
| 12.5° | 2519.0  | 2531.9  | 2527.6  | 2574.7  | 2673.3  | 2694.7  | 2896.0  | 3234.5  | 3598.6  | 3971.3  | 4446.9  |
| 15°   | 2600.4  | 2609.0  | 2566.2  | 2540.5  | 2626.1  | 2647.6  | 2836.1  | 3135.9  | 3525.8  | 3988.5  | 4558.2  |
| 17.5° | 2763.2  | 2733.2  | 2647.6  | 2609.0  | 2681.8  | 2694.7  | 2870.3  | 3131.7  | 3517.2  | 4035.6  | 4686.8  |
| 20°   | 2857.5  | 2891.7  | 2741.8  | 2669.0  | 2771.8  | 2788.9  | 2977.4  | 3200.2  | 3560.1  | 4117.0  | 4866.7  |
| 22.5° | 3024.6  | 3041.7  | 2840.3  | 2793.2  | 2891.7  | 2891.7  | 3105.9  | 3337.3  | 3662.9  | 4249.8  | 5080.9  |
| 25°   | 3260.2  | 3238.8  | 3003.1  | 2956.0  | 3050.3  | 3088.8  | 3303.0  | 3555.8  | 3821.4  | 4374.0  | 5278.0  |
| 27.5° | 3444.4  | 3457.2  | 3264.5  | 3140.2  | 3298.7  | 3324.4  | 3555.8  | 3791.4  | 3941.3  | 4476.8  | 5517.9  |
| 30°   | 3718.6  | 3692.9  | 3487.2  | 3345.9  | 3542.9  | 3547.2  | 3770.0  | 4014.2  | 4172.7  | 4661.1  | 5877.7  |
| 32.5° | 4044.2  | 3992.7  | 3757.1  | 3555.8  | 3714.3  | 3752.8  | 3979.9  | 4335.5  | 4532.5  | 5008.1  | 6434.7  |
| 35°   | 4733.9  | 4609.7  | 4224.1  | 3911.4  | 3924.2  | 3941.3  | 4292.6  | 4802.4  | 5029.5  | 5449.3  | 7180.1  |
| 37.5° | 5740.6  | 5689.2  | 5252.3  | 4656.8  | 4429.7  | 4378.3  | 4772.4  | 5419.3  | 5702.1  | 6032.0  | 8148.3  |
| 40°   | 6738.8  | 6666.0  | 6259.0  | 5809.2  | 5397.9  | 5295.1  | 5492.2  | 6237.6  | 6494.6  | 6841.7  | 9142.2  |
| 42.5° | 7848.4  | 7719.9  | 7240.1  | 6875.9  | 6618.9  | 6507.5  | 6430.4  | 7265.8  | 7557.1  | 7792.7  | 10114.7 |
| 45°   | 8970.8  | 8760.9  | 8066.9  | 7788.4  | 7651.3  | 7591.4  | 7582.8  | 8559.6  | 8735.2  | 8782.3  | 11194.3 |
| 47.5° | 9956.2  | 9729.1  | 9099.4  | 8786.6  | 8683.8  | 8666.7  | 9146.5  | 10050.4 | 9913.3  | 9789.1  | 12398.1 |
| 50°   | 10714.4 | 10568.8 | 10114.7 | 10003.3 | 9926.2  | 9896.2  | 11018.6 | 11584.1 | 10950.1 | 10731.6 | 13456.3 |
| 52.5° | 11888.3 | 11562.7 | 11048.6 | 11087.2 | 11357.1 | 11361.3 | 12916.5 | 13040.7 | 11811.2 | 11378.5 | 14454.4 |
| 55°   | 12826.5 | 12612.3 | 12192.5 | 12136.8 | 12847.9 | 12925.0 | 14617.2 | 14146.0 | 12291.0 | 11995.4 | 14822.9 |
| 57.5° | 13931.8 | 13833.2 | 13529.1 | 13537.6 | 14283.1 | 14445.9 | 16129.5 | 15079.9 | 12689.4 | 12393.8 | 14878.6 |
| 60°   | 15529.7 | 15247.0 | 15088.5 | 15161.3 | 16039.5 | 16198.1 | 17594.7 | 15752.5 | 12882.2 | 12655.1 | 14741.5 |
| 62.5° | 17294.8 | 16964.9 | 16793.5 | 17166.3 | 18447.2 | 18472.9 | 18708.5 | 16348.0 | 12762.2 | 12723.7 | 13859.0 |
| 65°   | 19419.7 | 19094.1 | 18957.0 | 19706.7 | 21227.5 | 21133.3 | 20272.2 | 16600.8 | 12381.0 | 12033.9 | 11541.3 |
| 67.5° | 21536.0 | 21338.9 | 21056.2 | 22251.4 | 24145.0 | 24145.0 | 21895.9 | 16506.5 | 11382.8 | 9660.6  | 7548.5  |
| 70°   | 22538.5 | 22675.6 | 23125.4 | 25001.8 | 27011.0 | 26805.4 | 23498.1 | 15422.6 | 8473.9  | 5188.0  | 2968.9  |
| 72°   | 21870.2 | 21728.8 | 22889.8 | 25901.5 | 28776.1 | 28437.6 | 23228.2 | 12261.0 | 4896.7  | 2274.8  | 1032.5  |
| 72.5° | 20722.0 | 20854.8 | 22452.8 | 25777.2 | 28446.2 | 28724.7 | 22568.5 | 11309.9 | 4027.0  | 1812.2  | 779.7   |
| 75°   | 12706.5 | 12933.6 | 16759.3 | 21887.3 | 24787.6 | 24474.9 | 17457.6 | 5389.4  | 1546.5  | 771.1   | 278.5   |
| 77.5° | 4639.6  | 4828.1  | 8131.2  | 13773.3 | 17628.9 | 17431.9 | 10101.8 | 1915.0  | 839.7   | 574.1   | 141.4   |
| 80°   | 1208.1  | 1306.6  | 2763.2  | 6353.3  | 10367.4 | 10380.3 | 4228.4  | 766.8   | 569.8   | 471.2   | 85.7    |
| 82.5° | 239.9   | 265.6   | 848.2   | 2471.9  | 4845.3  | 4781.0  | 1336.6  | 411.3   | 428.4   | 385.6   | 60.0    |
| 85°   | 30.0    | 38.6    | 179.9   | 839.7   | 1568.0  | 1405.2  | 329.9   | 205.6   | 317.0   | 299.9   | 38.6    |
| 87.5° | 4.3     | 4.3     | 42.8    | 192.8   | 329.9   | 321.3   | 68.5    | 64.3    | 141.4   | 184.2   | 21.4    |
| 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°    | 4335.5  | 4335.5 | 4335.5 | 4335.5 | 4335.5 | 4335.5 | 4335.5 | 4335.5 | 4335.5 | 4335.5 | 4335.5 |
| 2.5°  | 4382.6  | 4399.7 | 4459.7 | 4511.1 | 4571.1 | 4588.2 | 4562.5 | 4605.4 | 4545.4 | 4579.7 | 4588.2 |
| 5°    | 4391.2  | 4489.7 | 4601.1 | 4673.9 | 4656.8 | 4613.9 | 4579.7 | 4464.0 | 4382.6 | 4352.6 | 4416.9 |
| 7.5°  | 4451.1  | 4562.5 | 4682.5 | 4682.5 | 4588.2 | 4365.5 | 4151.3 | 3945.6 | 3774.3 | 3688.6 | 3761.4 |
| 10°   | 4528.3  | 4643.9 | 4768.2 | 4605.4 | 4254.1 | 3847.1 | 3542.9 | 3157.4 | 2896.0 | 2758.9 | 2771.8 |
| 12.5° | 4631.1  | 4793.9 | 4836.7 | 4459.7 | 3877.1 | 3273.0 | 2720.4 | 2184.9 | 1936.4 | 1739.3 | 1743.6 |
| 15°   | 4763.9  | 4922.4 | 4793.9 | 4142.7 | 3397.3 | 2506.2 | 1842.1 | 1332.3 | 1135.3 | 1032.5 | 1032.5 |
| 17.5° | 4939.5  | 5059.5 | 4781.0 | 3851.4 | 2750.4 | 1713.6 | 1131.0 | 899.7  | 856.8  | 839.7  | 839.7  |
| 20°   | 5145.2  | 5235.1 | 4656.8 | 3397.3 | 2043.5 | 1101.0 | 831.1  | 805.4  | 809.7  | 801.1  | 801.1  |
| 22.5° | 5376.5  | 5406.5 | 4515.4 | 2870.3 | 1383.8 | 814.0  | 775.4  | 779.7  | 784.0  | 775.4  | 779.7  |
| 25°   | 5620.7  | 5539.3 | 4309.8 | 2253.4 | 921.1  | 741.1  | 749.7  | 758.3  | 762.6  | 766.8  | 766.8  |
| 27.5° | 5894.9  | 5732.1 | 4022.7 | 1649.4 | 719.7  | 698.3  | 724.0  | 749.7  | 754.0  | 754.0  | 749.7  |
| 30°   | 6297.6  | 6027.7 | 3744.3 | 1118.1 | 634.0  | 651.2  | 694.0  | 724.0  | 745.4  | 745.4  | 741.1  |
| 32.5° | 6807.4  | 6336.1 | 3354.4 | 762.6  | 586.9  | 595.5  | 629.8  | 689.7  | 736.9  | 741.1  | 728.3  |
| 35°   | 7514.3  | 6708.8 | 2947.4 | 608.3  | 552.6  | 556.9  | 578.3  | 625.5  | 706.9  | 732.6  | 728.3  |
| 37.5° | 8259.7  | 7133.0 | 2441.9 | 548.4  | 526.9  | 522.7  | 535.5  | 574.1  | 646.9  | 711.2  | 715.4  |
| 40°   | 9052.2  | 7578.5 | 1910.7 | 518.4  | 505.5  | 497.0  | 501.2  | 518.4  | 574.1  | 655.5  | 672.6  |
| 42.5° | 9797.7  | 7981.2 | 1435.2 | 488.4  | 484.1  | 475.5  | 475.5  | 479.8  | 509.8  | 565.5  | 574.1  |
| 45°   | 10603.1 | 8311.1 | 1092.4 | 467.0  | 454.1  | 458.4  | 441.3  | 432.7  | 454.1  | 458.4  | 454.1  |
| 47.5° | 11357.1 | 8641.0 | 873.9  | 441.3  | 428.4  | 428.4  | 407.0  | 389.9  | 389.9  | 351.3  | 347.0  |
| 50°   | 12063.9 | 8820.9 | 698.3  | 407.0  | 402.7  | 398.4  | 368.4  | 338.4  | 312.7  | 265.6  | 257.0  |
| 52.5° | 12650.8 | 8812.3 | 539.8  | 364.1  | 377.0  | 364.1  | 317.0  | 274.2  | 235.6  | 192.8  | 184.2  |
| 55°   | 12826.5 | 8401.1 | 407.0  | 299.9  | 321.3  | 304.2  | 252.8  | 214.2  | 171.4  | 137.1  | 132.8  |
| 57.5° | 12676.6 | 7775.6 | 308.5  | 231.3  | 248.5  | 231.3  | 192.8  | 158.5  | 120.0  | 94.2   | 85.7   |
| 60°   | 12175.3 | 7043.0 | 239.9  | 179.9  | 188.5  | 175.6  | 145.7  | 120.0  | 85.7   | 60.0   | 51.4   |
| 62.5° | 11224.3 | 6126.2 | 184.2  | 141.4  | 137.1  | 137.1  | 111.4  | 90.0   | 60.0   | 34.3   | 30.0   |
| 65°   | 9210.7  | 4776.7 | 141.4  | 98.5   | 98.5   | 98.5   | 85.7   | 64.3   | 38.6   | 17.1   | 8.6    |
| 67.5° | 5783.5  | 2780.4 | 115.7  | 77.1   | 72.8   | 72.8   | 60.0   | 42.8   | 21.4   | 4.3    | 0.0    |
| 70°   | 2176.3  | 1019.6 | 90.0   | 60.0   | 55.7   | 55.7   | 42.8   | 25.7   | 12.9   | 0.0    | 0.0    |
| 72°   | 749.7   | 389.9  | 72.8   | 42.8   | 42.8   | 38.6   | 30.0   | 21.4   | 8.6    | 0.0    | 0.0    |
| 72.5° | 616.9   | 312.7  | 68.5   | 42.8   | 38.6   | 38.6   | 30.0   | 21.4   | 8.6    | 0.0    | 0.0    |
| 75°   | 222.8   | 128.5  | 47.1   | 30.0   | 25.7   | 25.7   | 21.4   | 12.9   | 4.3    | 0.0    | 0.0    |
| 77.5° | 111.4   | 81.4   | 38.6   | 25.7   | 21.4   | 12.9   | 12.9   | 8.6    | 4.3    | 0.0    | 0.0    |
| 80°   | 68.5    | 51.4   | 21.4   | 17.1   | 12.9   | 8.6    | 4.3    | 4.3    | 0.0    | 0.0    | 0.0    |
| 82.5° | 47.1    | 30.0   | 12.9   | 12.9   | 8.6    | 4.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 30.0    | 12.9   | 8.6    | 8.6    | 4.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 12.9    | 8.6    | 4.3    | 0.0    | 0.0    | 0.0    | 0.0    | 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)