

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: P478299

Luminaire Tested: **IFLD-L-SA7B-827-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478299  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-827-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

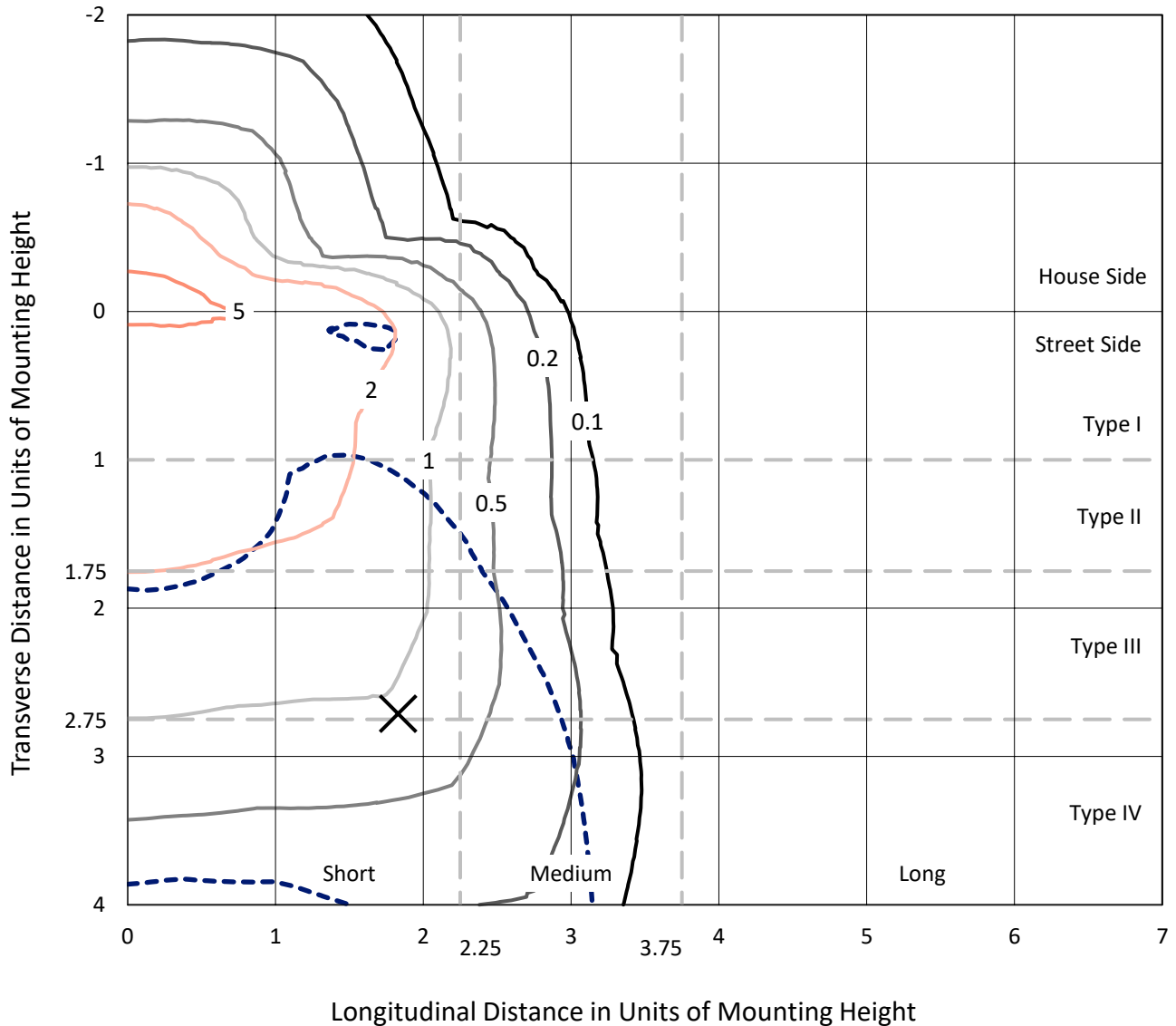
Lumens per Lamp: N/A  
Luminaire Lumens: 26819.6 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 281  
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

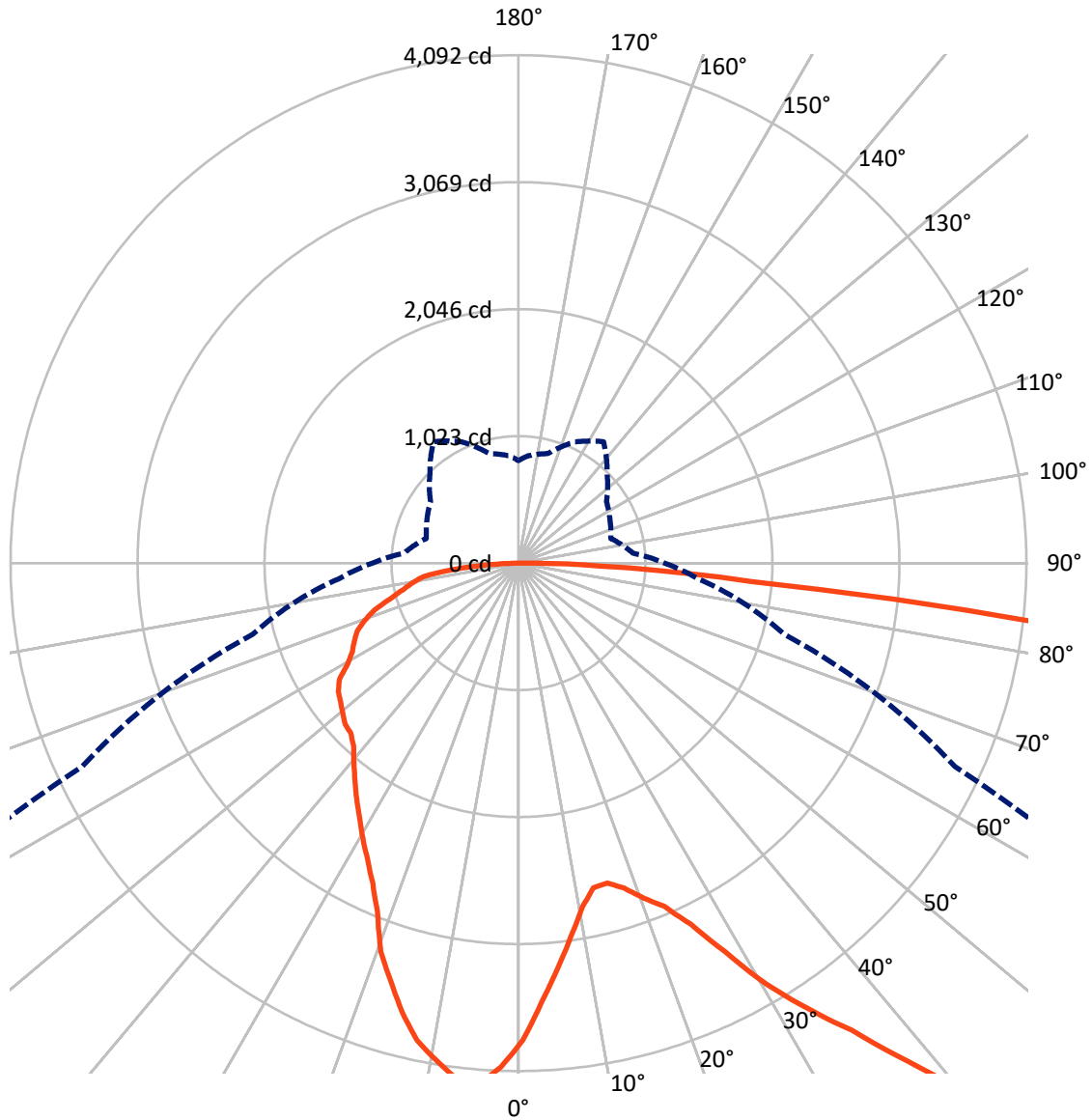
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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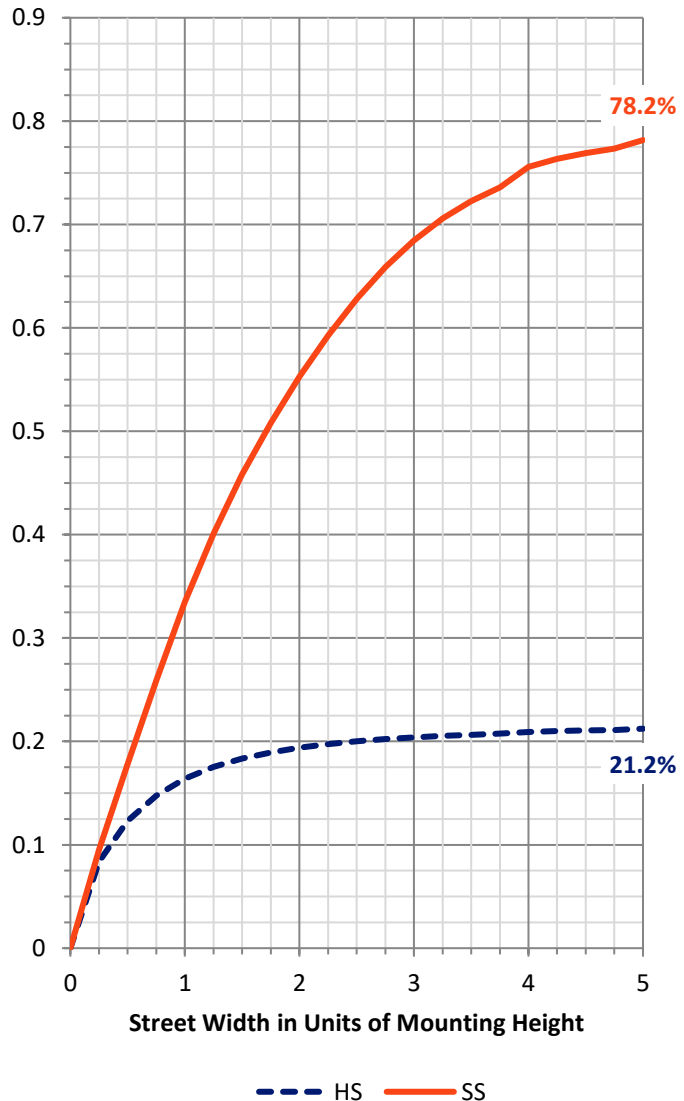
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5793.4   | 0.0    | 5793.4  |
|                    | % Fixture | 21.6     | 0.0    | 21.6    |
| <b>Street Side</b> | Lumens    | 21026.2  | 0.0    | 21026.2 |
|                    | % Fixture | 78.4     | 0.0    | 78.4    |
| <b>Total</b>       | Lumens    | 26819.6  | 0.0    | 26819.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 354.9   | 1.3       |
| 10°-20°   | 993.1   | 3.7       |
| 20°-30°   | 1634.6  | 6.1       |
| 30°-40°   | 2444.5  | 9.1       |
| 40°-50°   | 3623.9  | 13.5      |
| 50°-60°   | 5222.4  | 19.5      |
| 60°-70°   | 6664.5  | 24.8      |
| 70°-80°   | 5186.0  | 19.3      |
| 80°-90°   | 695.7   | 2.6       |
| 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°    | 26819.6 | 100.0     |
| 0°-180°   | 26819.6 | 100.0     |

**Coefficient of Utilization**



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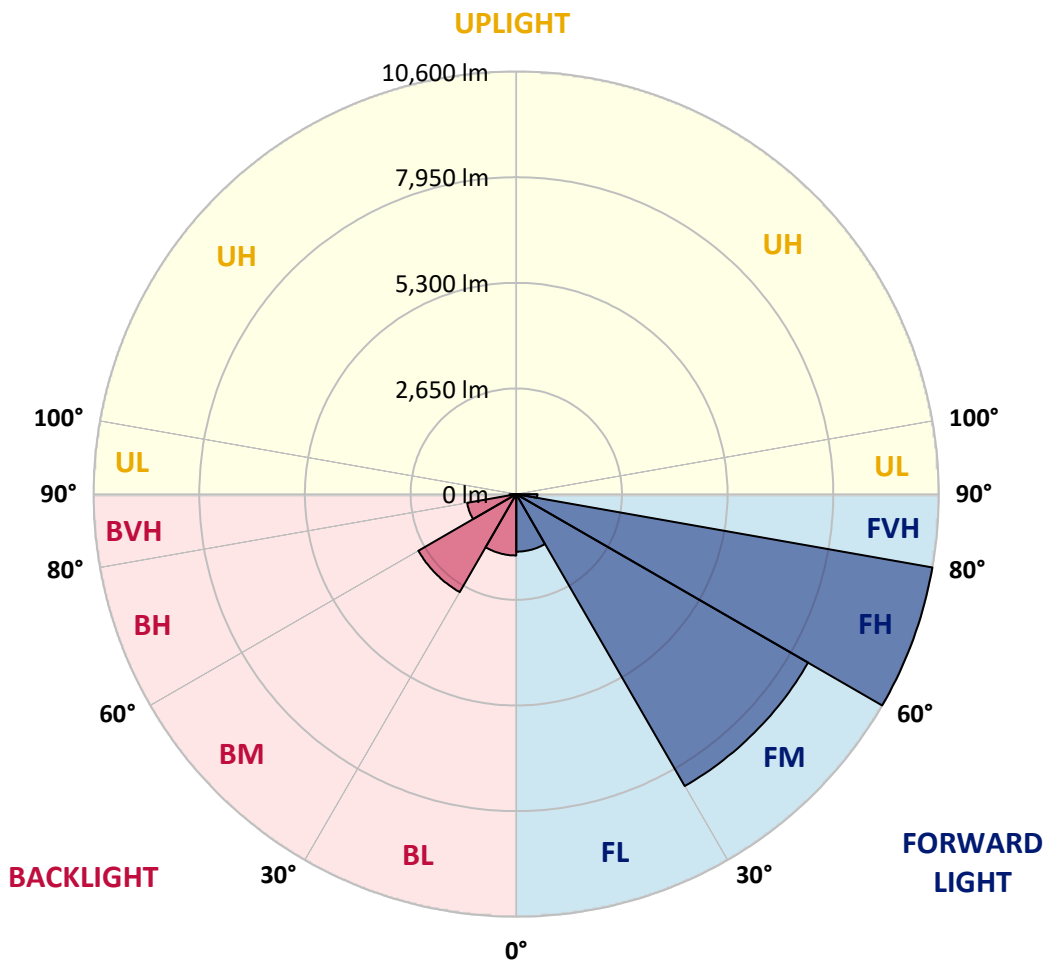
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1443.4  | 5.4       |                         |      |          |
| FM (30°-60°)   | 8453.7  | 31.5      |                         |      |          |
| FH (60°-80°)   | 10599.6 | 39.5      |                         |      | G4/12000 |
| FVH (80°-90°)  | 529.6   | 2.0       |                         |      | G4/750   |
| BL (0°-30°)    | 1539.3  | 5.7       | B3/2500                 |      |          |
| BM (30°-60°)   | 2837.0  | 10.6      | B3/5000                 |      |          |
| BH (60°-80°)   | 1250.9  | 4.7       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 166.2   | 0.6       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 34°     | 35°     | 45°     | 55°     | 65°    | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|
| 0°    | 3845.0  | 3845.0  | 3845.0  | 3845.0  | 3845.0  | 3845.0  | 3845.0  | 3845.0  | 3845.0 | 3845.0  | 3845.0  |
| 2.5°  | 3445.2  | 3456.5  | 3493.4  | 3501.9  | 3541.6  | 3518.9  | 3567.1  | 3652.2  | 3700.4 | 3771.3  | 3856.4  |
| 5°    | 3173.0  | 3124.8  | 3147.5  | 3235.4  | 3280.7  | 3292.1  | 3343.1  | 3487.7  | 3578.5 | 3683.4  | 3842.2  |
| 7.5°  | 2852.6  | 2844.1  | 2889.4  | 2946.1  | 3036.9  | 3045.4  | 3158.8  | 3286.4  | 3473.6 | 3706.1  | 3893.2  |
| 10°   | 2634.2  | 2671.1  | 2696.6  | 2756.2  | 2818.5  | 2818.5  | 2963.2  | 3184.3  | 3397.0 | 3621.0  | 3904.6  |
| 12.5° | 2622.9  | 2600.2  | 2605.9  | 2637.1  | 2682.4  | 2739.1  | 2875.2  | 3073.7  | 3343.1 | 3604.0  | 3952.8  |
| 15°   | 2659.7  | 2668.3  | 2617.2  | 2656.9  | 2673.9  | 2693.8  | 2844.1  | 3068.1  | 3309.1 | 3663.5  | 4035.0  |
| 17.5° | 2855.4  | 2807.2  | 2727.8  | 2690.9  | 2750.5  | 2750.5  | 2852.6  | 3028.4  | 3314.8 | 3694.7  | 4154.1  |
| 20°   | 3008.5  | 3008.5  | 2878.1  | 2838.4  | 2880.9  | 2872.4  | 2943.3  | 3073.7  | 3343.1 | 3757.1  | 4287.4  |
| 22.5° | 3266.6  | 3303.4  | 3087.9  | 3005.7  | 3002.8  | 3025.5  | 3087.9  | 3198.5  | 3422.5 | 3845.0  | 4415.0  |
| 25°   | 3638.0  | 3646.5  | 3397.0  | 3311.9  | 3221.2  | 3258.0  | 3269.4  | 3380.0  | 3493.4 | 3947.1  | 4559.6  |
| 27.5° | 4052.0  | 4046.3  | 3816.7  | 3604.0  | 3544.4  | 3552.9  | 3490.6  | 3564.3  | 3598.3 | 3978.3  | 4766.6  |
| 30°   | 4511.4  | 4460.3  | 4287.4  | 3986.8  | 3938.6  | 3884.7  | 3748.6  | 3745.8  | 3816.7 | 4154.1  | 5053.0  |
| 32.5° | 4811.9  | 4746.7  | 4627.6  | 4412.1  | 4278.8  | 4284.5  | 4069.0  | 4066.2  | 4003.8 | 4346.9  | 5302.5  |
| 35°   | 5106.8  | 5007.6  | 4976.4  | 4755.2  | 4622.0  | 4636.1  | 4463.2  | 4440.5  | 4327.1 | 4639.0  | 5713.6  |
| 37.5° | 5461.3  | 5373.4  | 5421.6  | 5254.3  | 5089.8  | 5021.8  | 4942.4  | 4914.0  | 4766.6 | 5050.1  | 6275.1  |
| 40°   | 5852.6  | 5824.2  | 5793.0  | 5710.8  | 5611.6  | 5617.2  | 5532.2  | 5503.8  | 5285.5 | 5546.3  | 6813.8  |
| 42.5° | 6380.0  | 6272.2  | 6110.6  | 6164.5  | 6215.5  | 6269.4  | 6241.1  | 6167.3  | 5940.5 | 6051.1  | 7415.0  |
| 45°   | 6870.5  | 6728.8  | 6431.0  | 6448.0  | 6657.9  | 6700.4  | 7043.5  | 7035.0  | 6578.5 | 6691.9  | 8098.3  |
| 47.5° | 7202.3  | 7137.1  | 6958.4  | 6938.6  | 7239.2  | 7236.3  | 7854.5  | 7854.5  | 7250.5 | 7329.9  | 8832.7  |
| 50°   | 7695.7  | 7525.6  | 7449.0  | 7548.2  | 7701.4  | 7806.3  | 8682.5  | 8736.3  | 7911.2 | 7996.3  | 9794.0  |
| 52.5° | 8274.1  | 8061.5  | 7868.7  | 8123.9  | 8396.1  | 8464.1  | 9501.9  | 9479.3  | 8418.8 | 8770.4  | 10919.7 |
| 55°   | 8753.3  | 8645.6  | 8512.3  | 8659.8  | 9105.0  | 9190.0  | 10324.2 | 10114.4 | 8926.3 | 9411.2  | 11461.3 |
| 57.5° | 9312.0  | 9377.2  | 9405.5  | 9368.7  | 9898.9  | 10032.2 | 11262.8 | 10661.7 | 9363.0 | 9842.2  | 11778.9 |
| 60°   | 10154.1 | 10193.8 | 10230.7 | 10318.6 | 10880.0 | 11067.2 | 12005.7 | 11347.9 | 9638.0 | 10091.7 | 11804.4 |
| 62.5° | 11435.8 | 11282.7 | 11364.9 | 11668.3 | 12119.2 | 12331.8 | 13100.3 | 11829.9 | 9847.9 | 10242.0 | 10970.8 |
| 65°   | 12901.8 | 12694.8 | 12609.7 | 13001.0 | 14169.3 | 13999.1 | 14467.0 | 12190.0 | 9544.5 | 9680.6  | 9303.4  |
| 67.5° | 14387.6 | 14410.3 | 14191.9 | 14977.4 | 16409.3 | 16409.3 | 15737.3 | 12363.0 | 8722.2 | 7846.0  | 6524.6  |
| 70°   | 15567.2 | 15638.1 | 15757.2 | 17279.9 | 19548.3 | 19891.4 | 17311.0 | 11654.1 | 7046.3 | 5223.1  | 3567.1  |
| 72.5° | 15550.2 | 15337.5 | 15947.1 | 18751.5 | 22400.9 | 22114.5 | 17640.0 | 9215.5  | 4397.9 | 2557.7  | 1636.1  |
| 73°   | 15201.4 | 15022.8 | 15689.1 | 18737.3 | 22517.1 | 22247.7 | 17398.9 | 8495.3  | 3879.0 | 2217.4  | 1454.6  |
| 75°   | 12414.0 | 12090.8 | 13225.0 | 16970.8 | 20832.8 | 21039.8 | 14781.7 | 5540.7  | 2126.7 | 1366.7  | 1023.6  |
| 77.5° | 5659.8  | 5801.5  | 7278.9  | 11384.7 | 16054.9 | 16298.8 | 9717.4  | 2396.0  | 1165.4 | 958.4   | 754.3   |
| 80°   | 1817.6  | 1908.3  | 2832.7  | 5659.8  | 10063.4 | 10502.9 | 4491.5  | 1088.9  | 830.8  | 734.4   | 564.3   |
| 82.5° | 694.7   | 691.9   | 1188.1  | 2353.5  | 4769.4  | 5050.1  | 1641.8  | 663.5   | 618.2  | 541.6   | 399.8   |
| 85°   | 243.9   | 255.2   | 448.0   | 930.1   | 1877.1  | 1965.0  | 569.9   | 368.6   | 428.2  | 363.0   | 229.7   |
| 87.5° | 85.1    | 87.9    | 158.8   | 337.4   | 646.5   | 683.4   | 158.8   | 147.4   | 212.7  | 209.8   | 116.3   |
| 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°    | 3845.0  | 3845.0 | 3845.0 | 3845.0 | 3845.0 | 3845.0 | 3845.0 | 3845.0 | 3845.0 | 3845.0 | 3845.0 |
| 2.5°  | 3884.7  | 3910.2 | 3918.7 | 4020.8 | 4020.8 | 4020.8 | 4060.5 | 4060.5 | 4049.2 | 4020.8 | 4088.9 |
| 5°    | 3901.7  | 3947.1 | 4035.0 | 4122.9 | 4145.6 | 4165.4 | 4219.3 | 4173.9 | 4190.9 | 4162.6 | 4188.1 |
| 7.5°  | 3949.9  | 4012.3 | 4176.8 | 4230.6 | 4193.8 | 4236.3 | 4179.6 | 4148.4 | 4117.2 | 4128.6 | 4088.9 |
| 10°   | 4032.2  | 4111.6 | 4188.1 | 4287.4 | 4216.5 | 4173.9 | 4057.7 | 4029.3 | 3930.1 | 3896.0 | 3927.2 |
| 12.5° | 4134.2  | 4230.6 | 4361.1 | 4324.2 | 4188.1 | 4066.2 | 3941.4 | 3822.3 | 3762.8 | 3677.7 | 3700.4 |
| 15°   | 4236.3  | 4346.9 | 4366.8 | 4304.4 | 4134.2 | 3981.1 | 3754.3 | 3587.0 | 3527.4 | 3450.9 | 3490.6 |
| 17.5° | 4346.9  | 4451.8 | 4417.8 | 4256.2 | 4026.5 | 3794.0 | 3535.9 | 3371.5 | 3246.7 | 3198.5 | 3198.5 |
| 20°   | 4511.4  | 4562.4 | 4508.5 | 4176.8 | 3896.0 | 3589.8 | 3340.3 | 3153.1 | 3028.4 | 3008.5 | 2977.3 |
| 22.5° | 4639.0  | 4721.2 | 4480.2 | 4060.5 | 3706.1 | 3323.3 | 3036.9 | 2966.0 | 2929.1 | 2897.9 | 2858.2 |
| 25°   | 4803.4  | 4800.6 | 4429.1 | 3952.8 | 3380.0 | 3005.7 | 2832.7 | 2827.0 | 2810.0 | 2798.7 | 2852.6 |
| 27.5° | 4959.4  | 4894.2 | 4369.6 | 3686.2 | 3042.5 | 2764.7 | 2671.1 | 2733.5 | 2759.0 | 2742.0 | 2764.7 |
| 30°   | 5206.1  | 5098.3 | 4284.5 | 3402.7 | 2744.8 | 2520.8 | 2537.8 | 2622.9 | 2665.4 | 2690.9 | 2656.9 |
| 32.5° | 5466.9  | 5302.5 | 4108.7 | 3107.8 | 2481.1 | 2367.7 | 2407.4 | 2495.3 | 2546.3 | 2574.7 | 2605.9 |
| 35°   | 5844.1  | 5461.3 | 3930.1 | 2722.1 | 2291.1 | 2274.1 | 2296.8 | 2345.0 | 2418.7 | 2438.6 | 2447.1 |
| 37.5° | 6309.1  | 5702.3 | 3689.1 | 2413.1 | 2143.7 | 2163.5 | 2186.2 | 2203.2 | 2206.1 | 2242.9 | 2228.7 |
| 40°   | 6774.1  | 5906.5 | 3337.4 | 2118.2 | 1990.6 | 2098.3 | 2087.0 | 2055.8 | 2030.3 | 1996.2 | 1987.7 |
| 42.5° | 7182.5  | 6085.1 | 2946.1 | 1868.6 | 1854.5 | 2030.3 | 1993.4 | 1914.0 | 1854.5 | 1828.9 | 1786.4 |
| 45°   | 7641.8  | 6337.5 | 2552.0 | 1712.7 | 1749.5 | 1948.0 | 1936.7 | 1814.8 | 1738.2 | 1647.5 | 1636.1 |
| 47.5° | 8237.3  | 6601.2 | 2174.9 | 1551.0 | 1650.3 | 1916.8 | 1922.5 | 1766.5 | 1656.0 | 1534.0 | 1517.0 |
| 50°   | 9000.0  | 6981.1 | 1888.5 | 1483.0 | 1590.7 | 1871.5 | 1880.0 | 1701.3 | 1556.7 | 1432.0 | 1420.6 |
| 52.5° | 9731.6  | 7369.6 | 1650.3 | 1378.1 | 1551.0 | 1817.6 | 1837.4 | 1641.8 | 1474.5 | 1318.5 | 1327.0 |
| 55°   | 10100.2 | 7227.8 | 1446.1 | 1301.5 | 1460.3 | 1729.7 | 1803.4 | 1599.3 | 1349.7 | 1242.0 | 1239.1 |
| 57.5° | 10182.5 | 6879.0 | 1284.5 | 1222.1 | 1383.7 | 1636.1 | 1746.7 | 1471.7 | 1293.0 | 1202.3 | 1190.9 |
| 60°   | 9913.1  | 6269.4 | 1156.9 | 1137.1 | 1287.3 | 1539.7 | 1616.3 | 1403.6 | 1236.3 | 1162.6 | 1145.6 |
| 62.5° | 9249.6  | 5637.1 | 1069.0 | 1097.4 | 1205.1 | 1434.8 | 1534.0 | 1355.4 | 1182.4 | 1131.4 | 1094.5 |
| 65°   | 7585.1  | 4636.1 | 998.1  | 1020.8 | 1120.0 | 1332.7 | 1483.0 | 1301.5 | 1134.2 | 1086.0 | 1083.2 |
| 67.5° | 5254.3  | 3195.7 | 941.4  | 983.9  | 1052.0 | 1259.0 | 1432.0 | 1242.0 | 1071.8 | 1054.8 | 1032.1 |
| 70°   | 2690.9  | 1704.2 | 867.7  | 901.7  | 978.3  | 1165.4 | 1341.2 | 1179.6 | 1006.6 | 1003.8 | 975.4  |
| 72.5° | 1363.9  | 998.1  | 782.6  | 833.7  | 887.5  | 1043.5 | 1227.8 | 1097.4 | 924.4  | 893.2  | 847.8  |
| 73°   | 1179.6  | 924.4  | 768.4  | 813.8  | 864.8  | 1009.5 | 1193.8 | 1077.5 | 913.0  | 867.7  | 825.1  |
| 75°   | 859.2   | 728.7  | 689.0  | 734.4  | 774.1  | 910.2  | 1080.3 | 986.8  | 839.3  | 791.1  | 751.4  |
| 77.5° | 643.7   | 561.4  | 572.8  | 623.8  | 657.8  | 785.4  | 961.3  | 893.2  | 759.9  | 694.7  | 677.7  |
| 80°   | 473.5   | 428.2  | 473.5  | 521.7  | 547.3  | 691.9  | 876.2  | 774.1  | 640.8  | 567.1  | 552.9  |
| 82.5° | 337.4   | 311.9  | 365.8  | 397.0  | 408.3  | 572.8  | 788.3  | 618.2  | 484.9  | 388.5  | 357.3  |
| 85°   | 192.8   | 190.0  | 246.7  | 243.9  | 252.4  | 334.6  | 518.9  | 411.2  | 311.9  | 238.2  | 232.5  |
| 87.5° | 85.1    | 93.6   | 124.8  | 99.2   | 104.9  | 158.8  | 221.2  | 153.1  | 127.6  | 70.9   | 53.9   |
| 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)