

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: P565299

Luminaire Tested: **IFLD-L-SA7A-AMB-U-T4W**

Issue Date: 09/02/2021

Test Information

Test Method: LM-79-08
Report Number: P565299
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/02/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-AMB-U-T4W
Description: STREETWORKS INFRASTRUCTURE FLOOD-- Middle Tier Light Square
Luminaire w/ T4W distribution lens
Light Source: (112) AMB CCT, -- CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

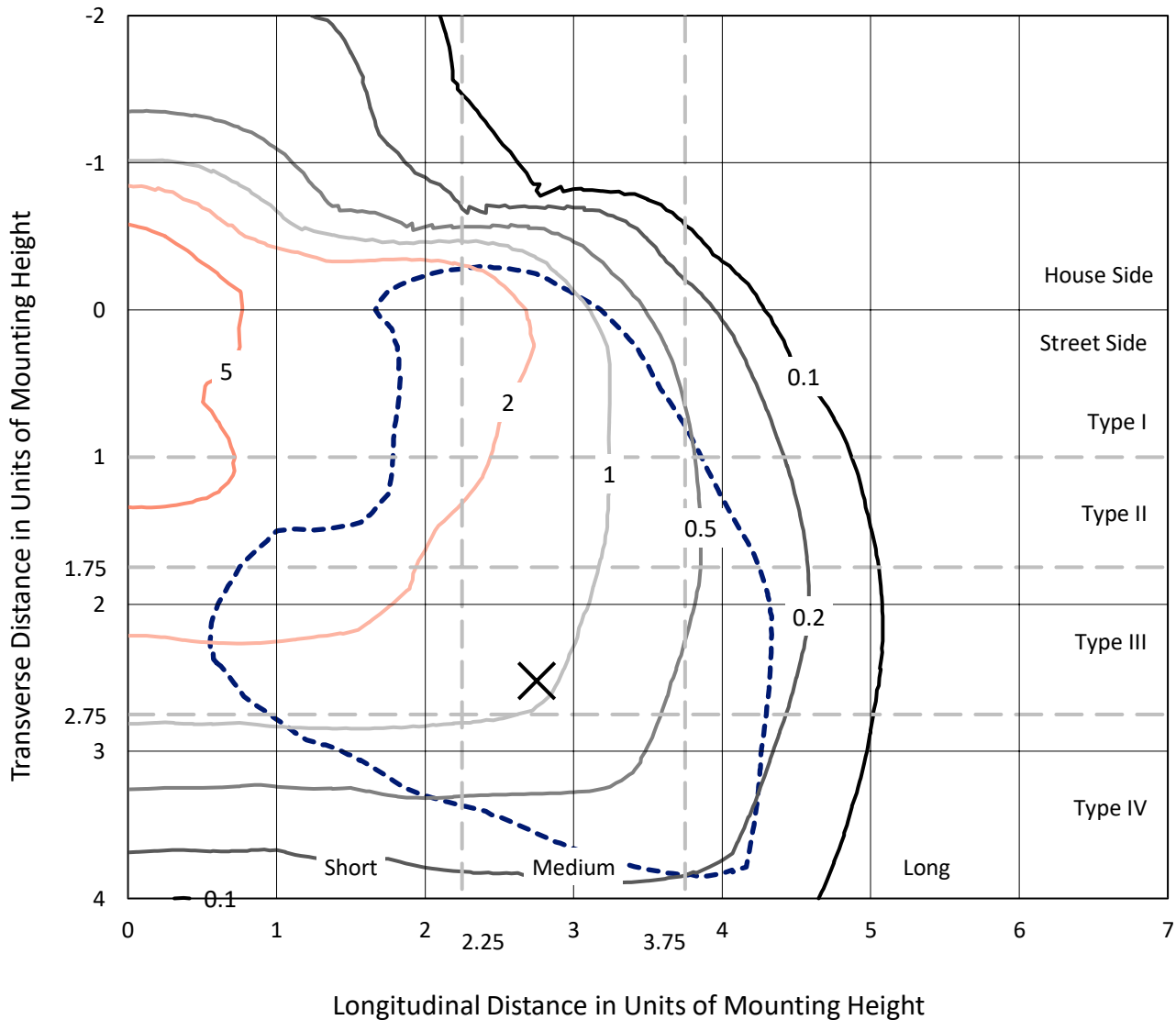
Lumens per Lamp: N/A
Luminaire Lumens: 7521.5 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 140.5
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

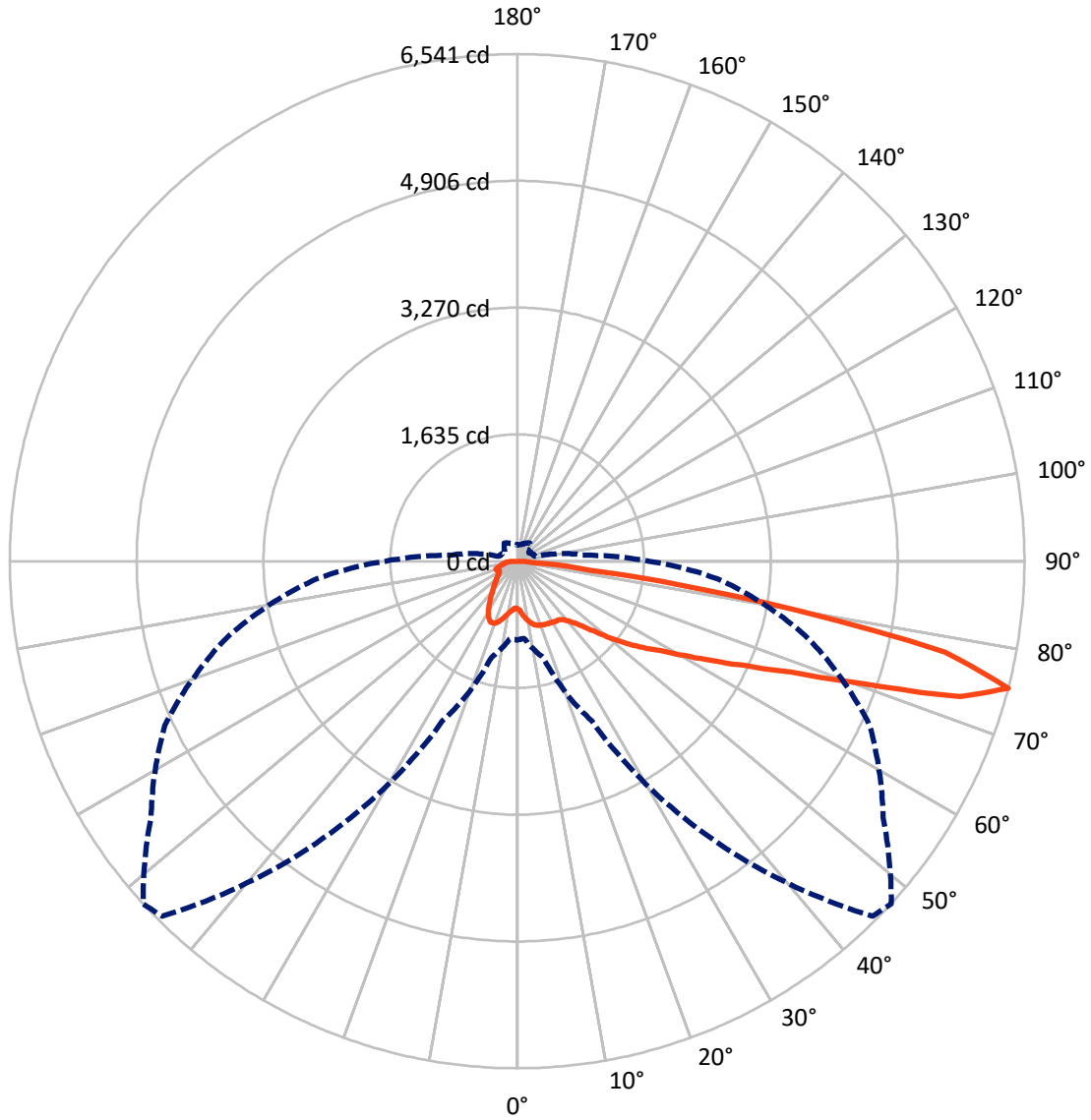
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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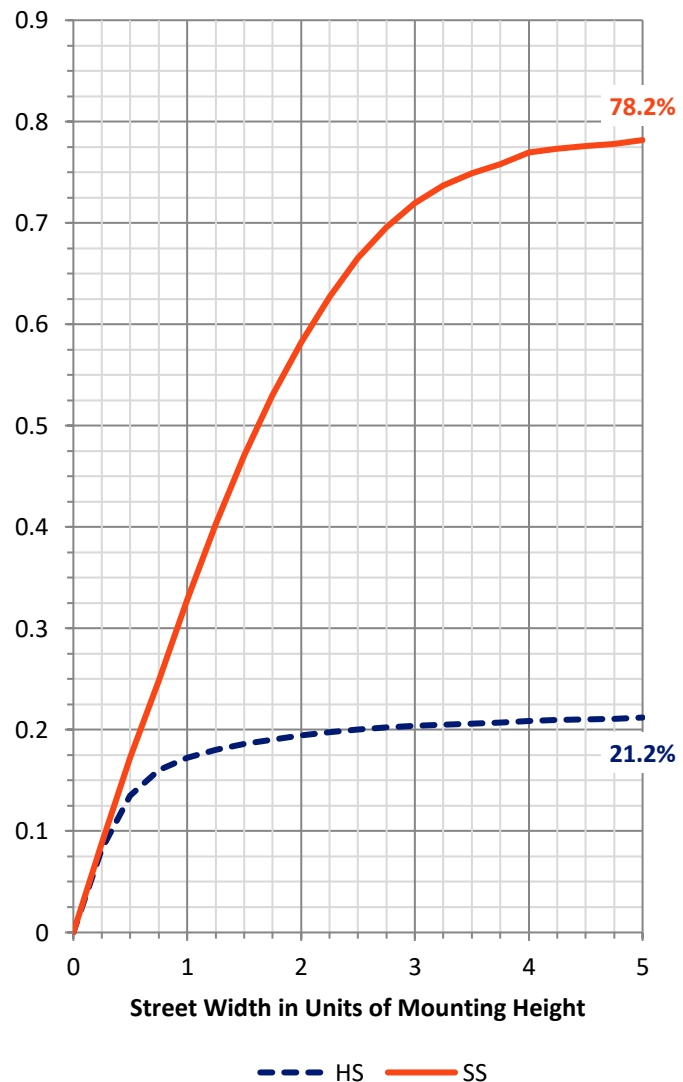
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1632.6 | 0.0 | 1632.6 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 5888.9 | 0.0 | 5888.9 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 7521.5 | 0.0 | 7521.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 65.2 | 0.9 |
| 10°-20° | 231.0 | 3.1 |
| 20°-30° | 395.8 | 5.3 |
| 30°-40° | 549.4 | 7.3 |
| 40°-50° | 797.5 | 10.6 |
| 50°-60° | 1261.1 | 16.8 |
| 60°-70° | 2112.3 | 28.1 |
| 70°-80° | 1891.2 | 25.1 |
| 80°-90° | 218.0 | 2.9 |
| 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° | 7521.5 | 100.0 |
| 0°-180° | 7521.5 | 100.0 |

Coefficient of Utilization

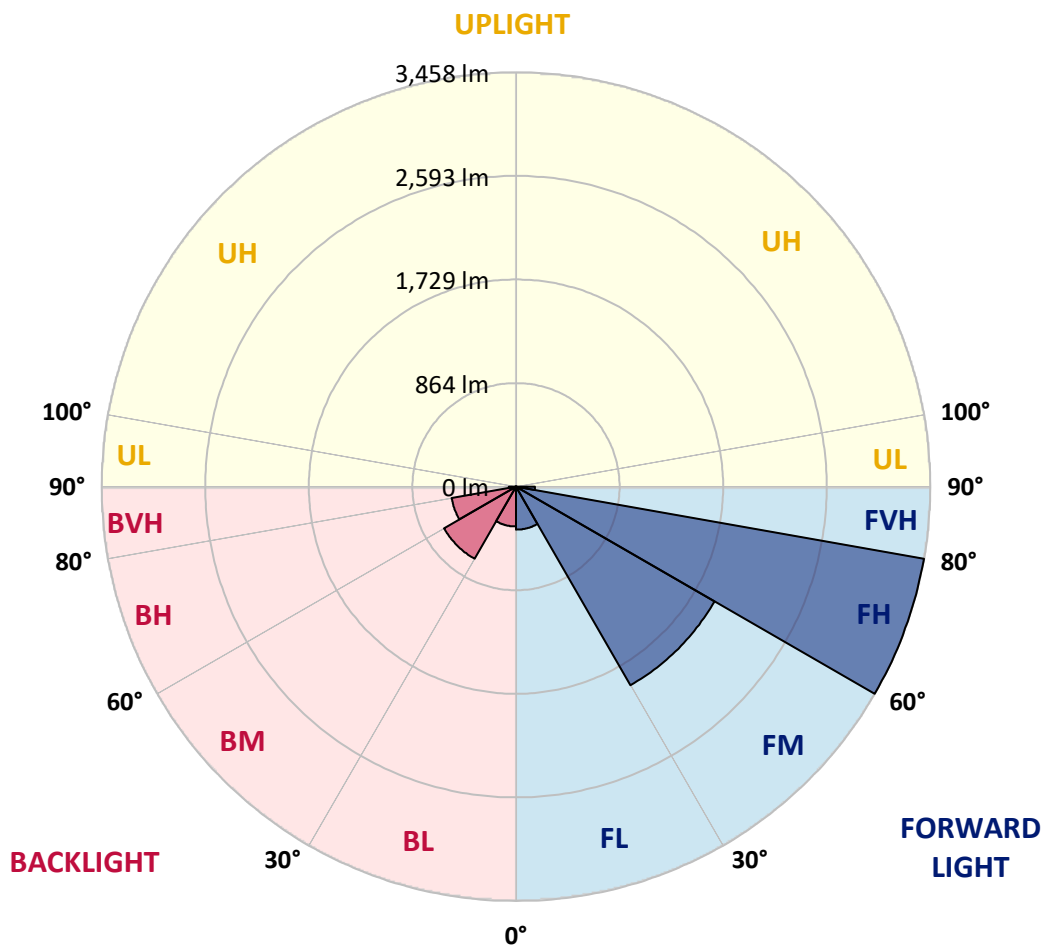


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 359.3 | 4.8 | | | |
| FM (30°-60°) | 1913.9 | 25.4 | | | |
| FH (60°-80°) | 3457.9 | 46.0 | | | G2/5000 |
| FVH (80°-90°) | 157.8 | 2.1 | | | G2/225 |
| BL (0°-30°) | 332.6 | 4.4 | B1/500 | | |
| BM (30°-60°) | 694.2 | 9.2 | B1/1000 | | |
| BH (60°-80°) | 545.6 | 7.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 60.1 | 0.8 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47.5° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 612.5 | 612.5 | 612.5 | 612.5 | 612.5 | 612.5 | 612.5 | 612.5 | 612.5 | 612.5 | 612.5 |
| 2.5° | 661.6 | 654.1 | 650.3 | 646.5 | 642.7 | 635.2 | 635.2 | 631.4 | 627.6 | 620.0 | 616.3 |
| 5° | 748.6 | 737.3 | 729.7 | 722.1 | 707.0 | 691.9 | 684.3 | 669.2 | 654.1 | 635.2 | 623.8 |
| 7.5° | 820.4 | 816.6 | 805.3 | 790.2 | 767.5 | 744.8 | 737.3 | 718.3 | 695.7 | 665.4 | 646.5 |
| 10° | 877.1 | 873.4 | 858.2 | 839.3 | 812.9 | 790.2 | 782.6 | 767.5 | 741.0 | 707.0 | 680.5 |
| 12.5° | 926.3 | 922.5 | 903.6 | 877.1 | 846.9 | 828.0 | 820.4 | 809.1 | 782.6 | 752.4 | 718.3 |
| 15° | 952.8 | 949.0 | 933.9 | 899.8 | 869.6 | 854.5 | 850.7 | 843.1 | 824.2 | 794.0 | 756.2 |
| 17.5° | 945.2 | 945.2 | 930.1 | 899.8 | 877.1 | 873.4 | 869.6 | 869.6 | 854.5 | 831.8 | 790.2 |
| 20° | 911.2 | 907.4 | 907.4 | 880.9 | 873.4 | 880.9 | 880.9 | 888.5 | 880.9 | 865.8 | 824.2 |
| 22.5° | 880.9 | 877.1 | 877.1 | 862.0 | 865.8 | 884.7 | 888.5 | 899.8 | 899.8 | 888.5 | 846.9 |
| 25° | 869.6 | 862.0 | 865.8 | 850.7 | 862.0 | 892.3 | 896.0 | 911.2 | 911.2 | 899.8 | 862.0 |
| 27.5° | 869.6 | 862.0 | 865.8 | 850.7 | 865.8 | 896.0 | 903.6 | 922.5 | 918.7 | 899.8 | 869.6 |
| 30° | 888.5 | 880.9 | 880.9 | 862.0 | 877.1 | 907.4 | 911.2 | 930.1 | 926.3 | 911.2 | 888.5 |
| 32.5° | 1020.8 | 1009.5 | 956.5 | 896.0 | 896.0 | 918.7 | 922.5 | 941.4 | 949.0 | 930.1 | 914.9 |
| 35° | 1228.8 | 1221.2 | 1141.8 | 1001.9 | 933.9 | 930.1 | 930.1 | 964.1 | 986.8 | 964.1 | 941.4 |
| 37.5° | 1497.2 | 1466.9 | 1364.9 | 1179.6 | 1028.4 | 960.3 | 956.5 | 994.3 | 1035.9 | 1013.2 | 975.4 |
| 40° | 1724.0 | 1701.3 | 1591.7 | 1387.5 | 1156.9 | 1028.4 | 1013.2 | 1039.7 | 1088.9 | 1062.4 | 1028.4 |
| 42.5° | 1901.7 | 1882.8 | 1818.6 | 1610.6 | 1315.7 | 1119.1 | 1088.9 | 1088.9 | 1145.6 | 1122.9 | 1085.1 |
| 45° | 2037.8 | 2034.1 | 2000.0 | 1814.8 | 1493.4 | 1255.2 | 1209.8 | 1160.7 | 1221.2 | 1209.8 | 1160.7 |
| 47.5° | 2105.9 | 2102.1 | 2136.1 | 1988.7 | 1690.0 | 1432.9 | 1361.1 | 1262.8 | 1327.1 | 1327.1 | 1277.9 |
| 50° | 2166.4 | 2177.7 | 2238.2 | 2173.9 | 1916.9 | 1644.6 | 1553.9 | 1398.9 | 1470.7 | 1497.2 | 1429.1 |
| 52.5° | 2264.7 | 2302.5 | 2359.2 | 2355.4 | 2189.1 | 1871.5 | 1758.1 | 1557.7 | 1659.8 | 1724.0 | 1659.8 |
| 55° | 2461.3 | 2457.5 | 2495.3 | 2563.4 | 2480.2 | 2105.9 | 1969.8 | 1761.8 | 1928.2 | 2034.1 | 1969.8 |
| 57.5° | 2582.3 | 2582.3 | 2661.7 | 2805.3 | 2820.5 | 2359.2 | 2181.5 | 2026.5 | 2272.2 | 2404.6 | 2385.7 |
| 60° | 2771.3 | 2771.3 | 2877.2 | 3073.8 | 3156.9 | 2635.2 | 2468.8 | 2347.9 | 2676.8 | 2831.8 | 2949.0 |
| 62.5° | 2873.4 | 2892.3 | 3070.0 | 3315.7 | 3421.6 | 2971.7 | 2820.5 | 2778.9 | 3138.0 | 3312.0 | 3637.1 |
| 65° | 2839.4 | 2873.4 | 3243.9 | 3516.1 | 3750.5 | 3376.2 | 3255.2 | 3232.6 | 3618.2 | 3799.7 | 4370.6 |
| 67.5° | 2892.3 | 2915.0 | 3330.9 | 3795.9 | 4151.3 | 3905.5 | 3811.0 | 3777.0 | 4136.2 | 4181.5 | 4911.2 |
| 70° | 2741.1 | 2748.6 | 3122.9 | 3973.6 | 4767.6 | 4854.5 | 4722.2 | 4540.7 | 4676.8 | 4484.0 | 5020.9 |
| 72.5° | 2177.7 | 2177.7 | 2518.0 | 3523.7 | 4971.7 | 6049.2 | 5973.6 | 5421.6 | 5107.8 | 4476.4 | 4208.0 |
| 75° | 1017.0 | 998.1 | 1281.7 | 2276.0 | 4366.8 | 6476.5 | 6540.7 | 5761.9 | 5013.3 | 3898.0 | 2589.8 |
| 77.5° | 264.7 | 260.9 | 385.6 | 843.1 | 2431.0 | 5368.7 | 5640.9 | 4691.9 | 3818.6 | 2313.8 | 960.3 |
| 80° | 139.9 | 139.9 | 181.5 | 264.7 | 843.1 | 2850.7 | 3191.0 | 2472.6 | 1727.8 | 824.2 | 302.5 |
| 82.5° | 68.1 | 71.8 | 117.2 | 166.4 | 378.1 | 782.6 | 949.0 | 828.0 | 525.5 | 321.4 | 185.3 |
| 85° | 30.2 | 34.0 | 60.5 | 98.3 | 223.1 | 170.1 | 181.5 | 242.0 | 302.5 | 230.6 | 102.1 |
| 87.5° | 11.3 | 11.3 | 18.9 | 30.2 | 79.4 | 56.7 | 56.7 | 98.3 | 173.9 | 143.7 | 41.6 |
| 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° | 612.5 | 612.5 | 612.5 | 612.5 | 612.5 | 612.5 | 612.5 | 612.5 | 612.5 | 612.5 | 612.5 |
| 2.5° | 616.3 | 612.5 | 608.7 | 608.7 | 604.9 | 604.9 | 604.9 | 608.7 | 608.7 | 608.7 | 608.7 |
| 5° | 620.0 | 616.3 | 612.5 | 612.5 | 616.3 | 623.8 | 627.6 | 635.2 | 639.0 | 642.7 | 646.5 |
| 7.5° | 642.7 | 635.2 | 631.4 | 631.4 | 639.0 | 650.3 | 657.9 | 669.2 | 680.5 | 688.1 | 691.9 |
| 10° | 673.0 | 665.4 | 657.9 | 665.4 | 673.0 | 684.3 | 699.4 | 710.8 | 722.1 | 729.7 | 737.3 |
| 12.5° | 707.0 | 695.7 | 691.9 | 699.4 | 714.6 | 729.7 | 744.8 | 756.2 | 767.5 | 778.8 | 782.6 |
| 15° | 741.0 | 733.5 | 729.7 | 741.0 | 759.9 | 778.8 | 794.0 | 805.3 | 812.9 | 824.2 | 824.2 |
| 17.5° | 778.8 | 771.3 | 767.5 | 782.6 | 805.3 | 820.4 | 831.8 | 835.6 | 835.6 | 843.1 | 843.1 |
| 20° | 809.1 | 801.5 | 801.5 | 820.4 | 839.3 | 850.7 | 846.9 | 843.1 | 835.6 | 843.1 | 843.1 |
| 22.5° | 835.6 | 828.0 | 828.0 | 846.9 | 862.0 | 858.2 | 843.1 | 831.8 | 824.2 | 831.8 | 831.8 |
| 25° | 850.7 | 850.7 | 858.2 | 865.8 | 858.2 | 846.9 | 828.0 | 820.4 | 809.1 | 812.9 | 816.6 |
| 27.5° | 862.0 | 869.6 | 880.9 | 869.6 | 831.8 | 805.3 | 790.2 | 790.2 | 782.6 | 786.4 | 797.7 |
| 30° | 888.5 | 896.0 | 899.8 | 858.2 | 786.4 | 744.8 | 725.9 | 737.3 | 752.4 | 756.2 | 767.5 |
| 32.5° | 918.7 | 933.9 | 918.7 | 831.8 | 729.7 | 673.0 | 654.1 | 680.5 | 714.6 | 729.7 | 748.6 |
| 35° | 952.8 | 979.2 | 933.9 | 801.5 | 673.0 | 597.4 | 589.8 | 612.5 | 642.7 | 669.2 | 691.9 |
| 37.5° | 1001.9 | 1035.9 | 956.5 | 759.9 | 604.9 | 536.9 | 521.7 | 529.3 | 540.7 | 555.8 | 567.1 |
| 40° | 1058.6 | 1100.2 | 975.4 | 703.2 | 529.3 | 483.9 | 461.3 | 442.4 | 434.8 | 427.2 | 434.8 |
| 42.5° | 1130.5 | 1183.4 | 994.3 | 639.0 | 483.9 | 442.4 | 404.5 | 381.9 | 366.7 | 344.1 | 344.1 |
| 45° | 1217.4 | 1281.7 | 1001.9 | 574.7 | 449.9 | 400.8 | 363.0 | 344.1 | 321.4 | 291.1 | 291.1 |
| 47.5° | 1338.4 | 1425.4 | 998.1 | 510.4 | 415.9 | 363.0 | 336.5 | 313.8 | 287.3 | 264.7 | 264.7 |
| 50° | 1516.1 | 1584.1 | 975.4 | 442.4 | 374.3 | 336.5 | 313.8 | 287.3 | 260.9 | 249.5 | 245.8 |
| 52.5° | 1788.3 | 1792.1 | 926.3 | 381.9 | 340.3 | 313.8 | 291.1 | 268.4 | 249.5 | 242.0 | 238.2 |
| 55° | 2219.3 | 2090.8 | 835.6 | 332.7 | 310.0 | 294.9 | 279.8 | 260.9 | 242.0 | 234.4 | 230.6 |
| 57.5° | 2775.1 | 2536.9 | 790.2 | 302.5 | 276.0 | 276.0 | 272.2 | 257.1 | 238.2 | 226.8 | 223.1 |
| 60° | 3569.0 | 3096.5 | 744.8 | 283.6 | 253.3 | 268.4 | 268.4 | 257.1 | 238.2 | 238.2 | 234.4 |
| 62.5° | 4329.0 | 3671.1 | 601.1 | 272.2 | 242.0 | 268.4 | 287.3 | 283.6 | 283.6 | 302.5 | 302.5 |
| 65° | 4941.5 | 4026.5 | 438.6 | 264.7 | 238.2 | 283.6 | 317.6 | 317.6 | 287.3 | 298.7 | 291.1 |
| 67.5° | 5100.3 | 4015.2 | 328.9 | 257.1 | 234.4 | 310.0 | 351.6 | 310.0 | 264.7 | 272.2 | 264.7 |
| 70° | 4555.8 | 3330.9 | 294.9 | 249.5 | 230.6 | 310.0 | 340.3 | 294.9 | 253.3 | 260.9 | 242.0 |
| 72.5° | 3304.4 | 2087.0 | 264.7 | 238.2 | 211.7 | 279.8 | 313.8 | 276.0 | 238.2 | 234.4 | 215.5 |
| 75° | 1705.1 | 873.4 | 238.2 | 219.3 | 185.3 | 238.2 | 287.3 | 257.1 | 223.1 | 215.5 | 207.9 |
| 77.5° | 555.8 | 336.5 | 215.5 | 200.4 | 162.6 | 211.7 | 264.7 | 238.2 | 204.2 | 189.0 | 185.3 |
| 80° | 242.0 | 226.8 | 185.3 | 177.7 | 139.9 | 181.5 | 245.8 | 219.3 | 181.5 | 162.6 | 158.8 |
| 82.5° | 170.1 | 155.0 | 147.5 | 143.7 | 117.2 | 177.7 | 245.8 | 215.5 | 170.1 | 166.4 | 136.1 |
| 85° | 94.5 | 90.7 | 102.1 | 94.5 | 83.2 | 147.5 | 185.3 | 147.5 | 105.9 | 87.0 | 87.0 |
| 87.5° | 34.0 | 41.6 | 49.2 | 45.4 | 41.6 | 75.6 | 98.3 | 83.2 | 56.7 | 45.4 | 45.4 |
| 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)