

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: P478015

Luminaire Tested: **IFLD-S-SA6A-722-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478015
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-722-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

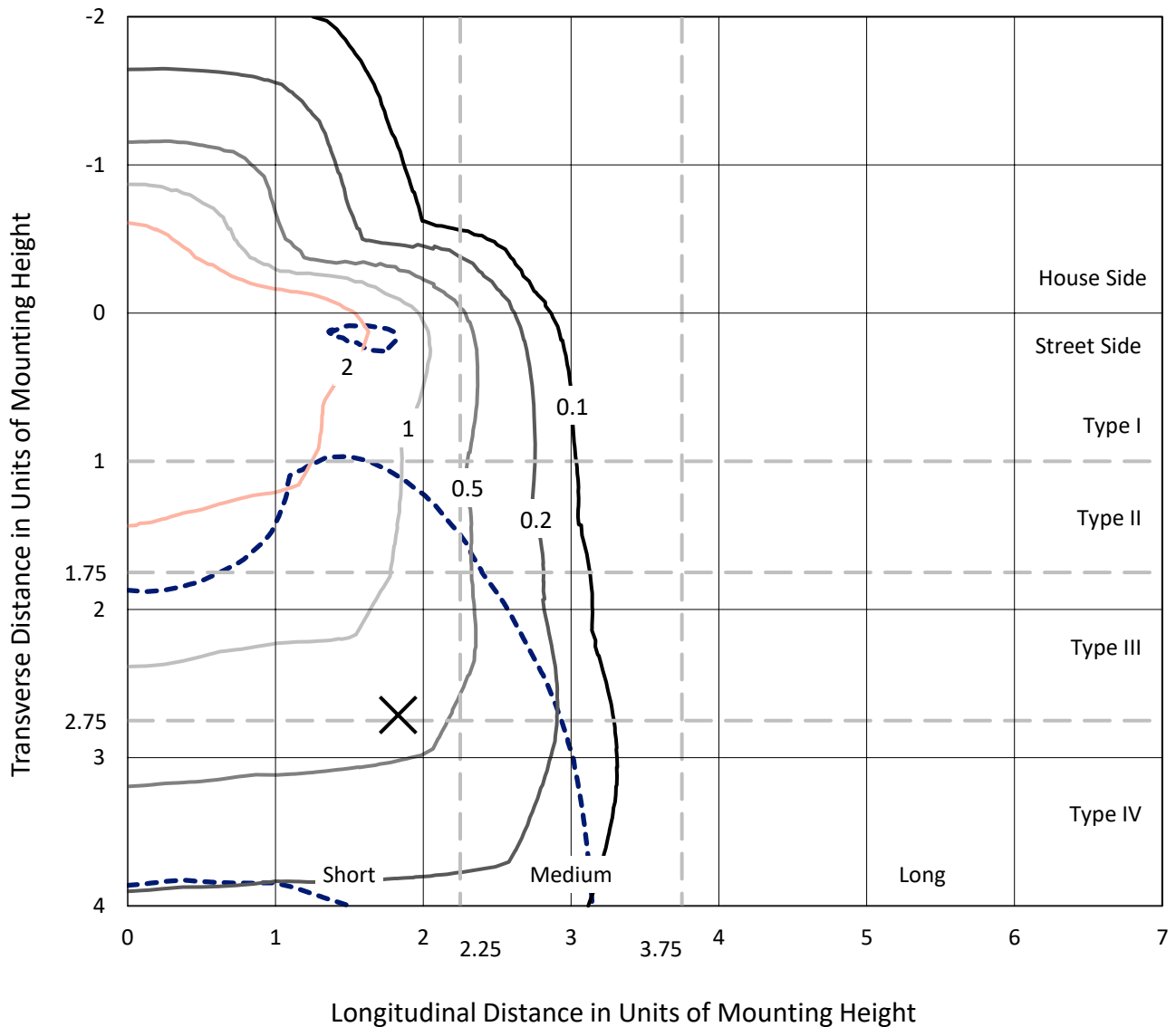
Lumens per Lamp: N/A
Luminaire Lumens: 20367.7 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6
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

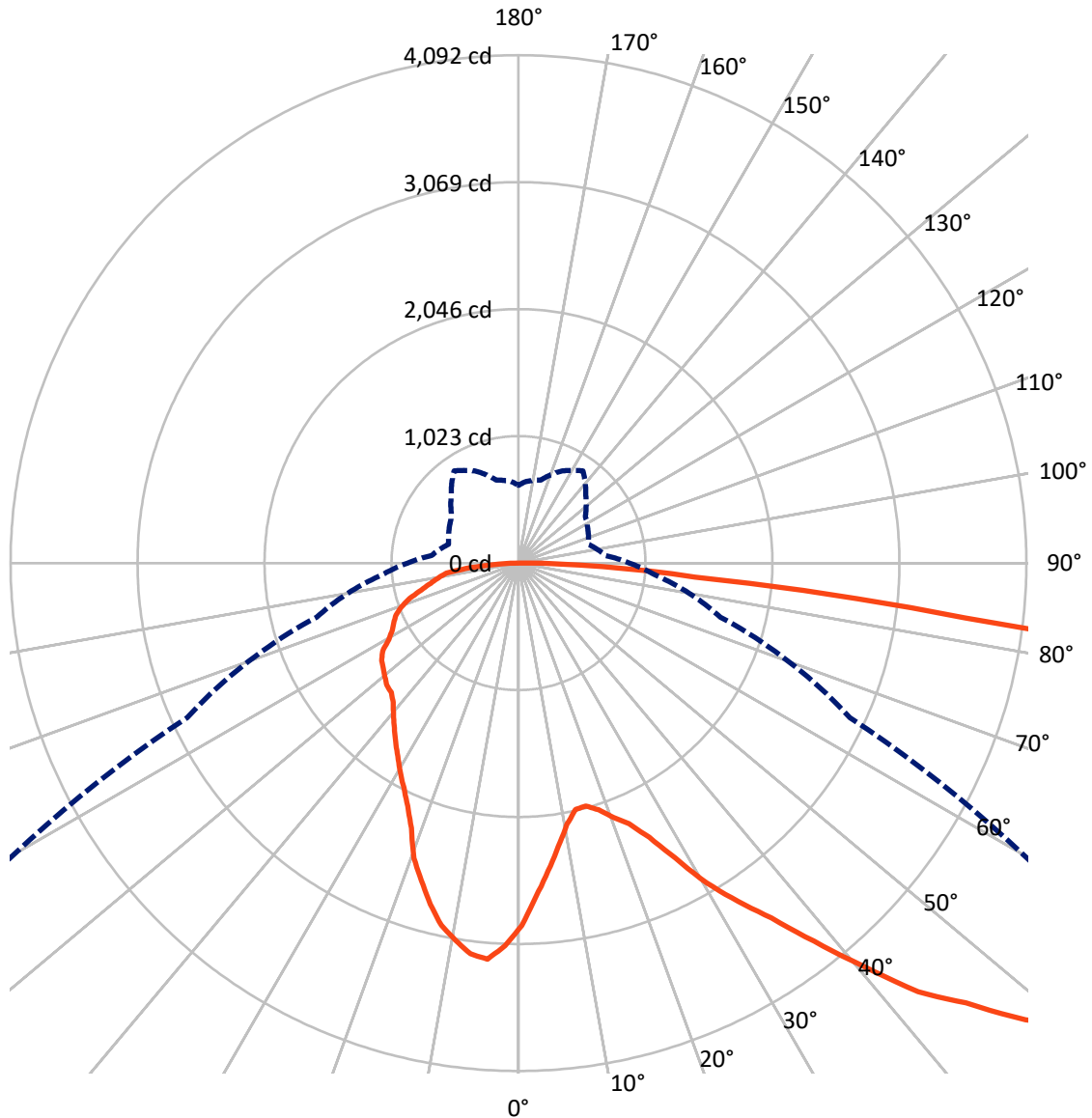
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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 |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4399.7 | 0.0 | 4399.7 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 15968.0 | 0.0 | 15968.0 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 20367.7 | 0.0 | 20367.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 269.5 | 1.3 |
| 10°-20° | 754.2 | 3.7 |
| 20°-30° | 1241.4 | 6.1 |
| 30°-40° | 1856.4 | 9.1 |
| 40°-50° | 2752.1 | 13.5 |
| 50°-60° | 3966.0 | 19.5 |
| 60°-70° | 5061.2 | 24.8 |
| 70°-80° | 3938.5 | 19.3 |
| 80°-90° | 528.4 | 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° | 20367.7 | 100.0 |
| 0°-180° | 20367.7 | 100.0 |

Coefficient of Utilization



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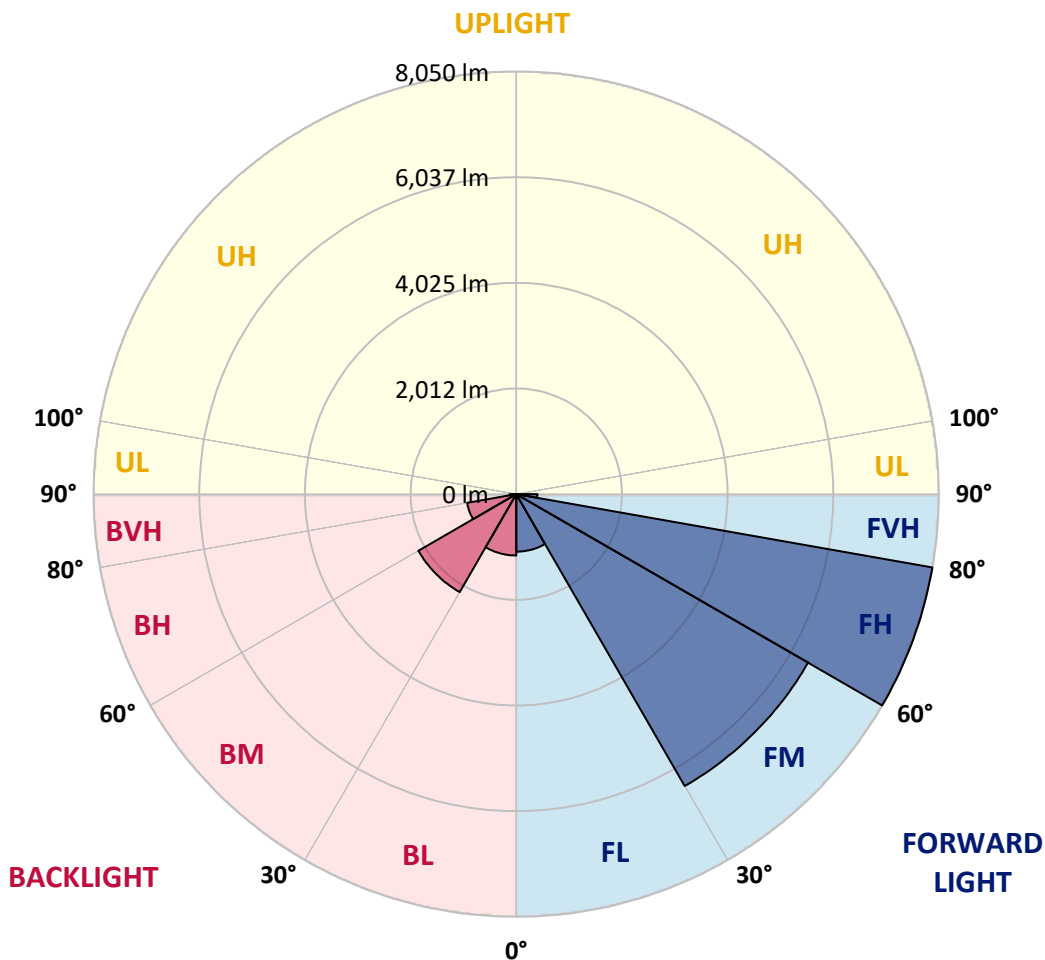
CATALOG NUMBER: IFLD-S-SA6A-722-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1096.1 | 5.4 | | | |
| FM (30°-60°) | 6420.0 | 31.5 | | | |
| FH (60°-80°) | 8049.7 | 39.5 | | | G4/12000 |
| FVH (80°-90°) | 402.2 | 2.0 | | | G3/500 |
| BL (0°-30°) | 1169.0 | 5.7 | B3/2500 | | |
| BM (30°-60°) | 2154.5 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 950.0 | 4.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 126.2 | 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° | 2920.0 | 2920.0 | 2920.0 | 2920.0 | 2920.0 | 2920.0 | 2920.0 | 2920.0 | 2920.0 | 2920.0 | 2920.0 |
| 2.5° | 2616.4 | 2625.0 | 2653.0 | 2659.5 | 2689.6 | 2672.4 | 2709.0 | 2773.6 | 2810.2 | 2864.0 | 2928.6 |
| 5° | 2409.7 | 2373.1 | 2390.3 | 2457.0 | 2491.5 | 2500.1 | 2538.9 | 2648.7 | 2717.6 | 2797.3 | 2917.9 |
| 7.5° | 2166.3 | 2159.9 | 2194.3 | 2237.4 | 2306.3 | 2312.8 | 2398.9 | 2495.8 | 2637.9 | 2814.5 | 2956.6 |
| 10° | 2000.5 | 2028.5 | 2047.9 | 2093.1 | 2140.5 | 2140.5 | 2250.3 | 2418.3 | 2579.8 | 2749.9 | 2965.3 |
| 12.5° | 1991.9 | 1974.7 | 1979.0 | 2002.7 | 2037.1 | 2080.2 | 2183.6 | 2334.3 | 2538.9 | 2737.0 | 3001.9 |
| 15° | 2019.9 | 2026.4 | 1987.6 | 2017.7 | 2030.7 | 2045.7 | 2159.9 | 2330.0 | 2513.0 | 2782.2 | 3064.3 |
| 17.5° | 2168.5 | 2131.9 | 2071.6 | 2043.6 | 2088.8 | 2088.8 | 2166.3 | 2299.8 | 2517.3 | 2805.9 | 3154.8 |
| 20° | 2284.8 | 2284.8 | 2185.7 | 2155.6 | 2187.9 | 2181.4 | 2235.2 | 2334.3 | 2538.9 | 2853.3 | 3256.0 |
| 22.5° | 2480.7 | 2508.7 | 2345.1 | 2282.6 | 2280.5 | 2297.7 | 2345.1 | 2429.1 | 2599.2 | 2920.0 | 3352.9 |
| 25° | 2762.8 | 2769.3 | 2579.8 | 2515.2 | 2446.3 | 2474.3 | 2482.9 | 2566.9 | 2653.0 | 2997.6 | 3462.7 |
| 27.5° | 3077.2 | 3072.9 | 2898.5 | 2737.0 | 2691.8 | 2698.2 | 2650.9 | 2706.8 | 2732.7 | 3021.2 | 3619.9 |
| 30° | 3426.1 | 3387.3 | 3256.0 | 3027.7 | 2991.1 | 2950.2 | 2846.8 | 2844.7 | 2898.5 | 3154.8 | 3837.4 |
| 32.5° | 3654.3 | 3604.8 | 3514.4 | 3350.7 | 3249.5 | 3253.8 | 3090.1 | 3088.0 | 3040.6 | 3301.2 | 4026.9 |
| 35° | 3878.3 | 3802.9 | 3779.2 | 3611.3 | 3510.1 | 3520.8 | 3389.5 | 3372.2 | 3286.1 | 3523.0 | 4339.1 |
| 37.5° | 4147.5 | 4080.7 | 4117.3 | 3990.3 | 3865.4 | 3813.7 | 3753.4 | 3731.9 | 3619.9 | 3835.2 | 4765.5 |
| 40° | 4444.6 | 4423.1 | 4399.4 | 4337.0 | 4261.6 | 4265.9 | 4201.3 | 4179.8 | 4014.0 | 4212.1 | 5174.7 |
| 42.5° | 4845.2 | 4763.4 | 4640.6 | 4681.5 | 4720.3 | 4761.2 | 4739.7 | 4683.7 | 4511.4 | 4595.4 | 5631.2 |
| 45° | 5217.7 | 5110.1 | 4883.9 | 4896.9 | 5056.2 | 5088.5 | 5349.1 | 5342.6 | 4995.9 | 5082.1 | 6150.2 |
| 47.5° | 5469.7 | 5420.1 | 5284.5 | 5269.4 | 5497.7 | 5495.5 | 5965.0 | 5965.0 | 5506.3 | 5566.6 | 6707.9 |
| 50° | 5844.4 | 5715.2 | 5657.0 | 5732.4 | 5848.7 | 5928.3 | 6593.8 | 6634.7 | 6008.0 | 6072.6 | 7437.9 |
| 52.5° | 6283.7 | 6122.2 | 5975.7 | 6169.5 | 6376.3 | 6427.9 | 7216.1 | 7198.9 | 6393.5 | 6660.5 | 8292.8 |
| 55° | 6647.6 | 6565.8 | 6464.5 | 6576.5 | 6914.6 | 6979.2 | 7840.6 | 7681.2 | 6778.9 | 7147.2 | 8704.1 |
| 57.5° | 7071.8 | 7121.3 | 7142.9 | 7114.9 | 7517.6 | 7618.8 | 8553.4 | 8096.8 | 7110.6 | 7474.5 | 8945.3 |
| 60° | 7711.4 | 7741.5 | 7769.5 | 7836.3 | 8262.6 | 8404.8 | 9117.6 | 8618.0 | 7319.5 | 7664.0 | 8964.7 |
| 62.5° | 8684.7 | 8568.4 | 8630.9 | 8861.3 | 9203.7 | 9365.2 | 9948.8 | 8984.0 | 7478.8 | 7778.1 | 8331.6 |
| 65° | 9798.0 | 9640.8 | 9576.2 | 9873.4 | 10760.6 | 10631.4 | 10986.7 | 9257.5 | 7248.4 | 7351.8 | 7065.4 |
| 67.5° | 10926.4 | 10943.7 | 10777.8 | 11374.3 | 12461.8 | 12461.8 | 11951.4 | 9388.9 | 6623.9 | 5958.5 | 4955.0 |
| 70° | 11822.2 | 11876.1 | 11966.5 | 13122.9 | 14845.6 | 15106.2 | 13146.6 | 8850.5 | 5351.2 | 3966.6 | 2709.0 |
| 72.5° | 11809.3 | 11647.8 | 12110.8 | 14240.5 | 17012.0 | 16794.5 | 13396.4 | 6998.6 | 3339.9 | 1942.4 | 1242.5 |
| 73° | 11544.5 | 11408.8 | 11914.8 | 14229.8 | 17100.3 | 16895.7 | 13213.3 | 6451.6 | 2945.9 | 1684.0 | 1104.7 |
| 75° | 9427.6 | 9182.2 | 10043.5 | 12888.2 | 15821.1 | 15978.3 | 11225.7 | 4207.8 | 1615.1 | 1037.9 | 777.4 |
| 77.5° | 4298.2 | 4405.9 | 5527.8 | 8646.0 | 12192.6 | 12377.8 | 7379.7 | 1819.6 | 885.1 | 727.9 | 572.8 |
| 80° | 1380.3 | 1449.2 | 2151.3 | 4298.2 | 7642.5 | 7976.2 | 3411.0 | 826.9 | 631.0 | 557.7 | 428.5 |
| 82.5° | 527.6 | 525.4 | 902.3 | 1787.3 | 3622.0 | 3835.2 | 1246.8 | 503.9 | 469.4 | 411.3 | 303.6 |
| 85° | 185.2 | 193.8 | 340.2 | 706.3 | 1425.6 | 1492.3 | 432.8 | 279.9 | 325.2 | 275.6 | 174.4 |
| 87.5° | 64.6 | 66.8 | 120.6 | 256.3 | 491.0 | 519.0 | 120.6 | 112.0 | 161.5 | 159.4 | 88.3 |
| 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° | 2920.0 | 2920.0 | 2920.0 | 2920.0 | 2920.0 | 2920.0 | 2920.0 | 2920.0 | 2920.0 | 2920.0 | 2920.0 |
| 2.5° | 2950.2 | 2969.6 | 2976.0 | 3053.5 | 3053.5 | 3053.5 | 3083.7 | 3083.7 | 3075.1 | 3053.5 | 3105.2 |
| 5° | 2963.1 | 2997.6 | 3064.3 | 3131.1 | 3148.3 | 3163.4 | 3204.3 | 3169.8 | 3182.7 | 3161.2 | 3180.6 |
| 7.5° | 2999.7 | 3047.1 | 3172.0 | 3212.9 | 3184.9 | 3217.2 | 3174.1 | 3150.4 | 3126.8 | 3135.4 | 3105.2 |
| 10° | 3062.2 | 3122.5 | 3180.6 | 3256.0 | 3202.1 | 3169.8 | 3081.5 | 3060.0 | 2984.6 | 2958.8 | 2982.5 |
| 12.5° | 3139.7 | 3212.9 | 3312.0 | 3284.0 | 3180.6 | 3088.0 | 2993.2 | 2902.8 | 2857.6 | 2793.0 | 2810.2 |
| 15° | 3217.2 | 3301.2 | 3316.3 | 3268.9 | 3139.7 | 3023.4 | 2851.1 | 2724.1 | 2678.8 | 2620.7 | 2650.9 |
| 17.5° | 3301.2 | 3380.9 | 3355.0 | 3232.3 | 3057.8 | 2881.3 | 2685.3 | 2560.4 | 2465.7 | 2429.1 | 2429.1 |
| 20° | 3426.1 | 3464.8 | 3423.9 | 3172.0 | 2958.8 | 2726.2 | 2536.7 | 2394.6 | 2299.8 | 2284.8 | 2261.1 |
| 22.5° | 3523.0 | 3585.4 | 3402.4 | 3083.7 | 2814.5 | 2523.8 | 2306.3 | 2252.5 | 2224.5 | 2200.8 | 2170.6 |
| 25° | 3647.9 | 3645.7 | 3363.6 | 3001.9 | 2566.9 | 2282.6 | 2151.3 | 2147.0 | 2134.0 | 2125.4 | 2166.3 |
| 27.5° | 3766.3 | 3716.8 | 3318.4 | 2799.4 | 2310.6 | 2099.6 | 2028.5 | 2075.9 | 2095.3 | 2082.4 | 2099.6 |
| 30° | 3953.7 | 3871.8 | 3253.8 | 2584.1 | 2084.5 | 1914.4 | 1927.3 | 1991.9 | 2024.2 | 2043.6 | 2017.7 |
| 32.5° | 4151.8 | 4026.9 | 3120.3 | 2360.1 | 1884.2 | 1798.1 | 1828.2 | 1895.0 | 1933.8 | 1955.3 | 1979.0 |
| 35° | 4438.2 | 4147.5 | 2984.6 | 2067.3 | 1740.0 | 1727.0 | 1744.3 | 1780.9 | 1836.9 | 1851.9 | 1858.4 |
| 37.5° | 4791.3 | 4330.5 | 2801.6 | 1832.6 | 1628.0 | 1643.1 | 1660.3 | 1673.2 | 1675.4 | 1703.4 | 1692.6 |
| 40° | 5144.5 | 4485.6 | 2534.6 | 1608.6 | 1511.7 | 1593.5 | 1584.9 | 1561.2 | 1541.8 | 1516.0 | 1509.5 |
| 42.5° | 5454.6 | 4621.2 | 2237.4 | 1419.1 | 1408.3 | 1541.8 | 1513.9 | 1453.6 | 1408.3 | 1389.0 | 1356.7 |
| 45° | 5803.5 | 4812.9 | 1938.1 | 1300.7 | 1328.7 | 1479.4 | 1470.8 | 1378.2 | 1320.0 | 1251.1 | 1242.5 |
| 47.5° | 6255.7 | 5013.1 | 1651.7 | 1177.9 | 1253.3 | 1455.7 | 1460.0 | 1341.6 | 1257.6 | 1165.0 | 1152.1 |
| 50° | 6834.9 | 5301.7 | 1434.2 | 1126.2 | 1208.1 | 1421.3 | 1427.7 | 1292.0 | 1182.2 | 1087.5 | 1078.9 |
| 52.5° | 7390.5 | 5596.7 | 1253.3 | 1046.6 | 1177.9 | 1380.3 | 1395.4 | 1246.8 | 1119.8 | 1001.3 | 1007.8 |
| 55° | 7670.5 | 5489.1 | 1098.2 | 988.4 | 1109.0 | 1313.6 | 1369.6 | 1214.5 | 1025.0 | 943.2 | 941.0 |
| 57.5° | 7732.9 | 5224.2 | 975.5 | 928.1 | 1050.9 | 1242.5 | 1326.5 | 1117.6 | 982.0 | 913.0 | 904.4 |
| 60° | 7528.3 | 4761.2 | 878.6 | 863.5 | 977.6 | 1169.3 | 1227.4 | 1065.9 | 938.9 | 882.9 | 870.0 |
| 62.5° | 7024.4 | 4281.0 | 811.8 | 833.4 | 915.2 | 1089.6 | 1165.0 | 1029.3 | 898.0 | 859.2 | 831.2 |
| 65° | 5760.4 | 3520.8 | 758.0 | 775.2 | 850.6 | 1012.1 | 1126.2 | 988.4 | 861.4 | 824.8 | 822.6 |
| 67.5° | 3990.3 | 2426.9 | 714.9 | 747.2 | 798.9 | 956.1 | 1087.5 | 943.2 | 814.0 | 801.1 | 783.8 |
| 70° | 2043.6 | 1294.2 | 658.9 | 684.8 | 742.9 | 885.1 | 1018.6 | 895.8 | 764.5 | 762.3 | 740.8 |
| 72.5° | 1035.8 | 758.0 | 594.3 | 633.1 | 674.0 | 792.5 | 932.4 | 833.4 | 702.0 | 678.3 | 643.9 |
| 73° | 895.8 | 702.0 | 583.6 | 618.0 | 656.8 | 766.6 | 906.6 | 818.3 | 693.4 | 658.9 | 626.6 |
| 75° | 652.5 | 553.4 | 523.3 | 557.7 | 587.9 | 691.2 | 820.5 | 749.4 | 637.4 | 600.8 | 570.7 |
| 77.5° | 488.8 | 426.4 | 435.0 | 473.8 | 499.6 | 596.5 | 730.0 | 678.3 | 577.1 | 527.6 | 514.7 |
| 80° | 359.6 | 325.2 | 359.6 | 396.2 | 415.6 | 525.4 | 665.4 | 587.9 | 486.7 | 430.7 | 419.9 |
| 82.5° | 256.3 | 236.9 | 277.8 | 301.5 | 310.1 | 435.0 | 598.6 | 469.4 | 368.2 | 295.0 | 271.3 |
| 85° | 146.4 | 144.3 | 187.3 | 185.2 | 191.7 | 254.1 | 394.1 | 312.2 | 236.9 | 180.9 | 176.6 |
| 87.5° | 64.6 | 71.1 | 94.8 | 75.4 | 79.7 | 120.6 | 168.0 | 116.3 | 96.9 | 53.8 | 40.9 |
| 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)