

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: P478385

Luminaire Tested: **IFLD-S-SA2A-722-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478385
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-722-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

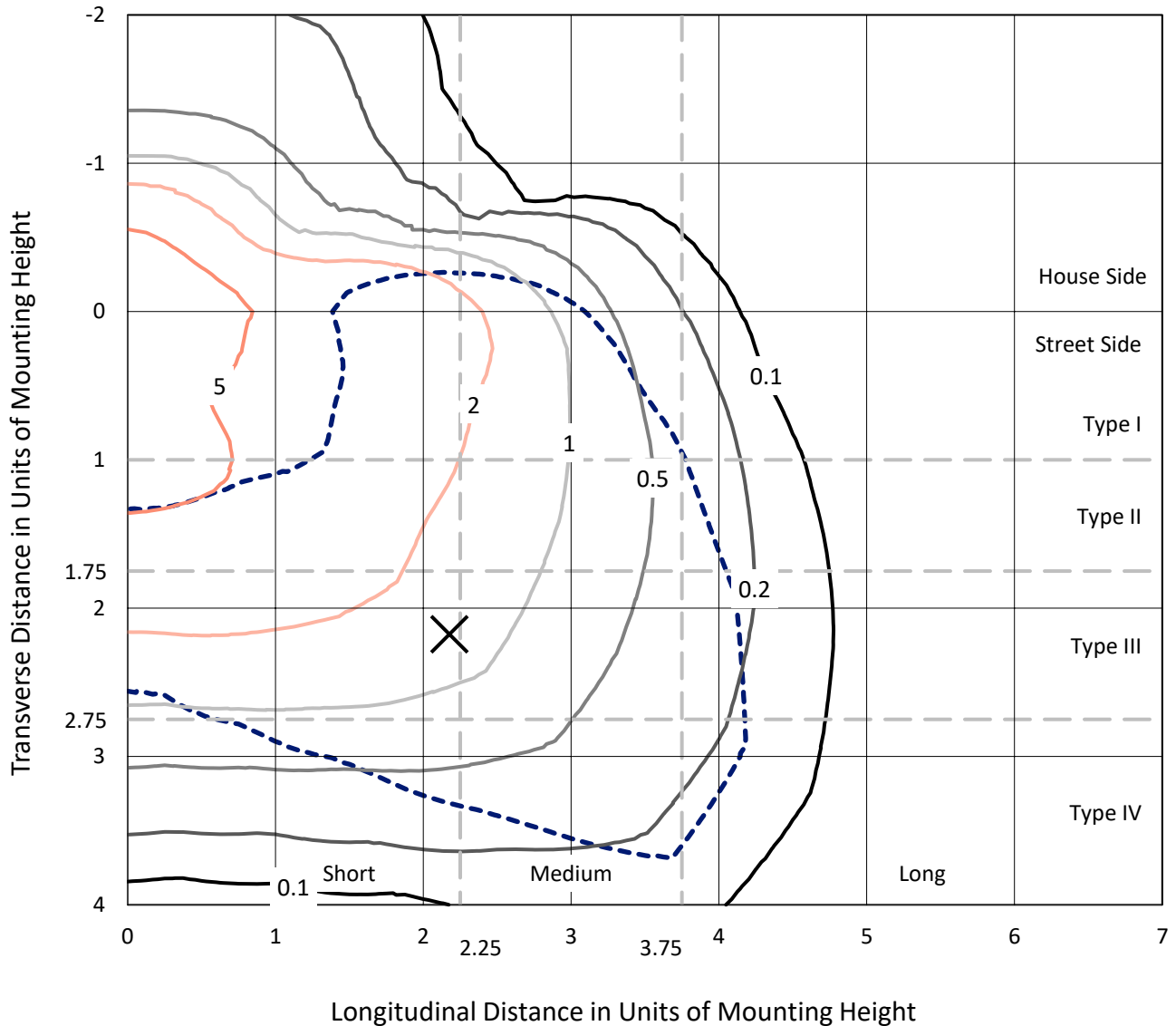
Lumens per Lamp: N/A
Luminaire Lumens: 6873.8 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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

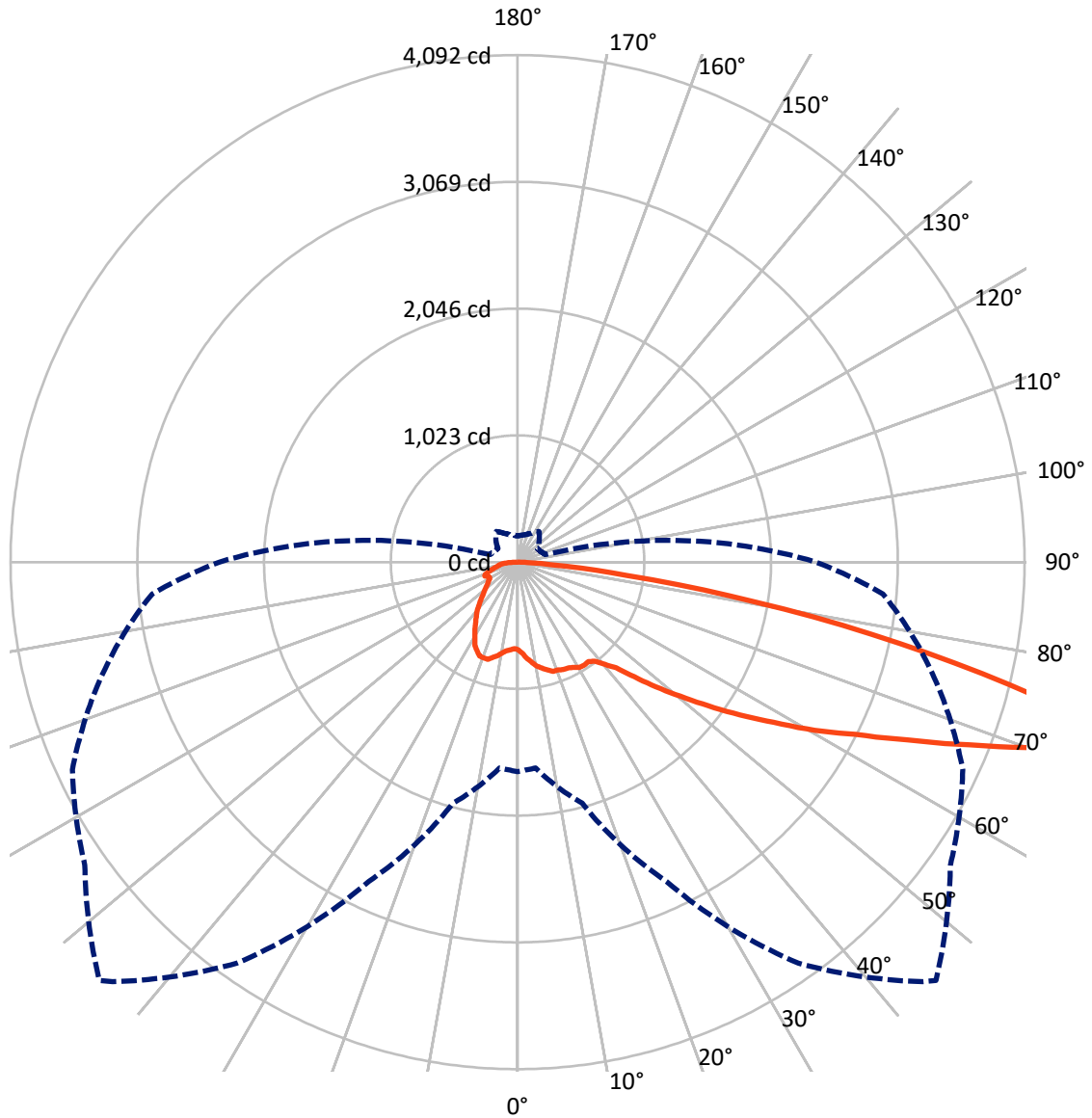
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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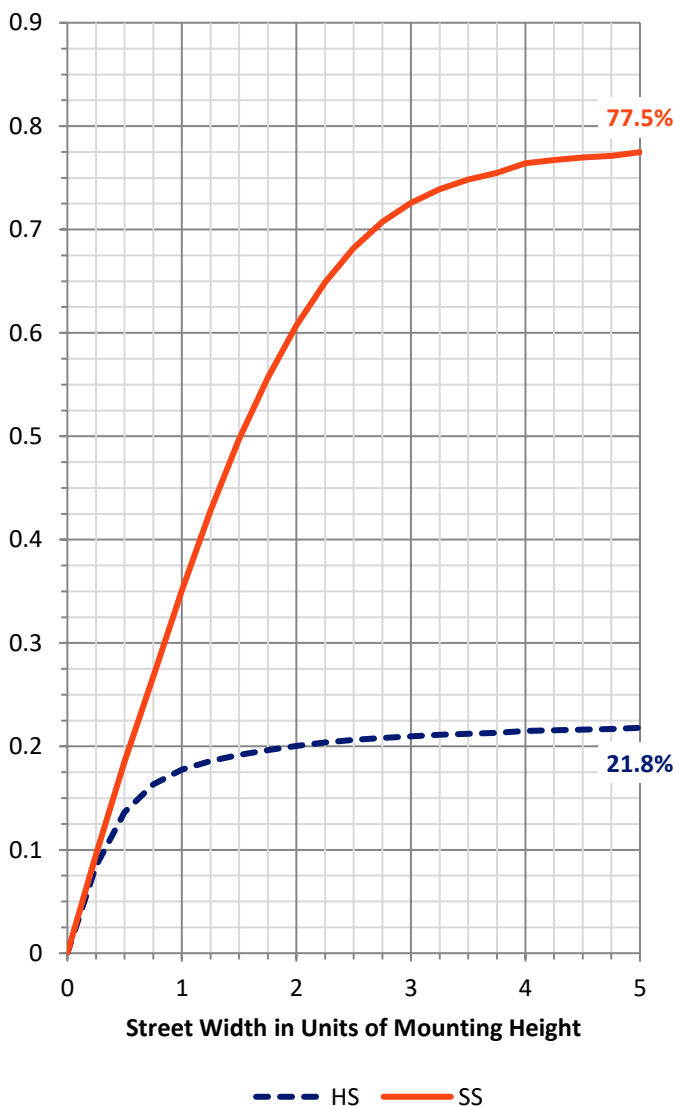
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1530.1 | 0.0 | 1530.1 |
| | % Fixture | 22.3 | 0.0 | 22.3 |
| Street Side | Lumens | 5343.6 | 0.0 | 5343.6 |
| | % Fixture | 77.7 | 0.0 | 77.7 |
| Total | Lumens | 6873.8 | 0.0 | 6873.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 72.4 | 1.1 |
| 10°-20° | 241.0 | 3.5 |
| 20°-30° | 407.0 | 5.9 |
| 30°-40° | 563.2 | 8.2 |
| 40°-50° | 805.6 | 11.7 |
| 50°-60° | 1299.3 | 18.9 |
| 60°-70° | 1916.3 | 27.9 |
| 70°-80° | 1391.6 | 20.2 |
| 80°-90° | 177.4 | 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° | 6873.8 | 100.0 |
| 0°-180° | 6873.8 | 100.0 |

Coefficient of Utilization



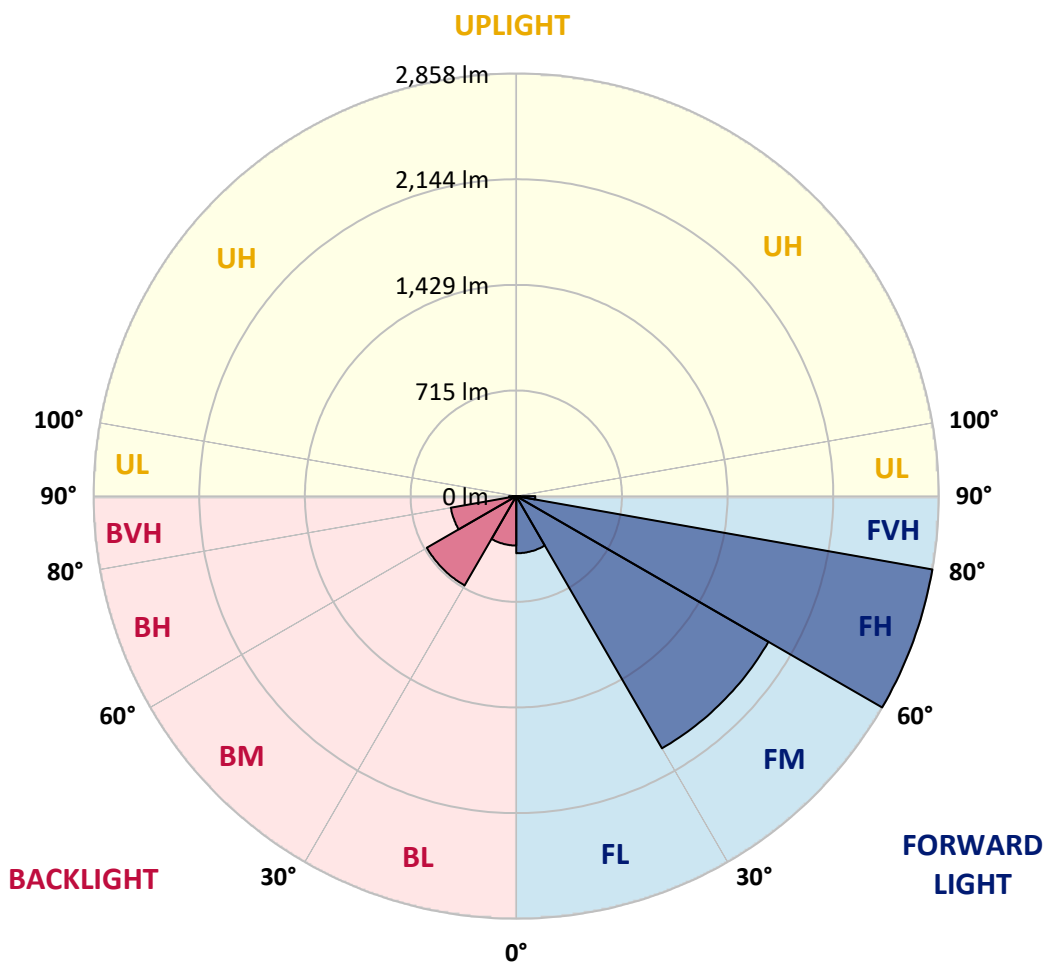
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 386.3 | 5.6 | | | |
| FM (30°-60°) | 1969.8 | 28.7 | | | |
| FH (60°-80°) | 2858.4 | 41.6 | | | G2/5000 |
| FVH (80°-90°) | 129.1 | 1.9 | | | G2/225 |
| BL (0°-30°) | 334.1 | 4.9 | B1/500 | | |
| BM (30°-60°) | 698.3 | 10.2 | B1/1000 | | |
| BH (60°-80°) | 449.5 | 6.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 48.3 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 707.9 | 707.9 | 707.9 | 707.9 | 707.9 | 707.9 | 707.9 | 707.9 | 707.9 | 707.9 | 707.9 |
| 2.5° | 745.7 | 750.1 | 745.7 | 744.9 | 737.5 | 732.3 | 736.8 | 730.1 | 722.7 | 719.7 | 713.1 |
| 5° | 813.9 | 814.6 | 806.5 | 807.2 | 791.6 | 775.3 | 778.3 | 758.3 | 736.8 | 728.6 | 715.3 |
| 7.5° | 883.5 | 875.4 | 863.5 | 859.8 | 835.4 | 817.6 | 815.4 | 797.6 | 764.2 | 745.7 | 727.1 |
| 10° | 928.8 | 931.7 | 912.5 | 896.1 | 875.4 | 853.9 | 853.2 | 819.8 | 800.5 | 773.1 | 749.4 |
| 12.5° | 968.8 | 969.5 | 953.2 | 927.3 | 901.3 | 874.6 | 878.4 | 863.5 | 830.9 | 805.0 | 781.3 |
| 15° | 999.9 | 995.5 | 977.7 | 954.0 | 926.5 | 905.8 | 903.6 | 891.0 | 863.5 | 842.0 | 802.8 |
| 17.5° | 1008.8 | 1006.6 | 988.8 | 963.6 | 936.9 | 921.3 | 927.3 | 906.5 | 895.4 | 876.1 | 838.3 |
| 20° | 991.8 | 986.6 | 983.6 | 955.4 | 936.2 | 934.7 | 929.5 | 933.9 | 915.4 | 897.6 | 870.2 |
| 22.5° | 960.6 | 958.4 | 956.9 | 934.7 | 925.8 | 932.5 | 941.4 | 948.0 | 945.1 | 928.0 | 896.9 |
| 25° | 928.8 | 939.1 | 929.5 | 919.1 | 931.7 | 948.8 | 946.5 | 968.0 | 968.0 | 962.9 | 936.9 |
| 27.5° | 951.0 | 944.3 | 936.9 | 931.7 | 936.2 | 962.9 | 961.4 | 987.3 | 997.0 | 987.3 | 957.7 |
| 30° | 1006.6 | 999.9 | 978.4 | 955.4 | 949.5 | 978.4 | 985.8 | 1008.8 | 1013.3 | 989.5 | 964.3 |
| 32.5° | 1111.1 | 1107.4 | 1073.3 | 1005.8 | 969.5 | 985.8 | 989.5 | 1015.5 | 1011.8 | 997.0 | 986.6 |
| 35° | 1266.0 | 1253.4 | 1206.0 | 1091.8 | 1011.8 | 995.5 | 985.8 | 1006.6 | 1020.7 | 1013.3 | 1003.6 |
| 37.5° | 1435.8 | 1421.7 | 1363.1 | 1218.6 | 1088.1 | 1021.4 | 1014.0 | 1031.0 | 1047.4 | 1043.6 | 1023.6 |
| 40° | 1598.1 | 1598.1 | 1545.5 | 1377.2 | 1201.5 | 1084.4 | 1085.9 | 1066.6 | 1081.5 | 1074.8 | 1078.5 |
| 42.5° | 1758.2 | 1752.3 | 1730.8 | 1563.3 | 1323.1 | 1189.7 | 1166.0 | 1117.8 | 1144.5 | 1142.2 | 1147.4 |
| 45° | 1920.5 | 1916.1 | 1910.1 | 1736.7 | 1497.3 | 1332.0 | 1319.4 | 1232.7 | 1257.1 | 1246.7 | 1269.0 |
| 47.5° | 2050.2 | 2055.4 | 2055.4 | 1930.2 | 1683.3 | 1521.7 | 1503.2 | 1366.1 | 1412.8 | 1418.0 | 1423.2 |
| 50° | 2160.7 | 2162.9 | 2160.7 | 2114.7 | 1890.9 | 1738.9 | 1701.1 | 1561.8 | 1608.5 | 1649.2 | 1696.7 |
| 52.5° | 2313.4 | 2316.3 | 2306.0 | 2288.2 | 2172.5 | 1967.2 | 1925.0 | 1770.1 | 1865.7 | 1908.7 | 1993.9 |
| 55° | 2501.6 | 2479.4 | 2460.1 | 2473.5 | 2443.1 | 2218.5 | 2174.8 | 1985.0 | 2128.8 | 2185.9 | 2356.4 |
| 57.5° | 2536.5 | 2555.8 | 2604.7 | 2710.7 | 2754.4 | 2463.1 | 2437.9 | 2248.9 | 2426.0 | 2475.7 | 2760.3 |
| 60° | 2659.5 | 2627.7 | 2747.7 | 2977.5 | 3026.4 | 2781.8 | 2755.9 | 2538.0 | 2721.8 | 2773.7 | 3133.2 |
| 62.5° | 2740.3 | 2738.8 | 2916.7 | 3189.5 | 3300.7 | 3112.4 | 3059.8 | 2913.8 | 3041.3 | 3091.7 | 3539.4 |
| 65° | 2716.6 | 2738.1 | 3053.9 | 3314.0 | 3529.7 | 3488.2 | 3457.8 | 3236.9 | 3405.2 | 3400.8 | 3804.0 |
| 67.5° | 2500.2 | 2560.9 | 2967.1 | 3403.7 | 3870.7 | 3946.3 | 3936.7 | 3691.3 | 3701.0 | 3606.8 | 3921.8 |
| 70° | 2200.0 | 2179.2 | 2600.2 | 3310.3 | 4041.2 | 4489.6 | 4487.4 | 4029.3 | 3967.1 | 3652.0 | 3583.8 |
| 72° | 1690.0 | 1667.0 | 2013.2 | 2842.6 | 3951.5 | 4706.8 | 4773.5 | 4263.5 | 3964.1 | 3464.5 | 2960.5 |
| 72.5° | 1534.3 | 1514.3 | 1859.0 | 2675.8 | 3852.2 | 4763.1 | 4732.0 | 4272.4 | 3933.0 | 3376.3 | 2765.5 |
| 75° | 706.4 | 683.4 | 928.8 | 1638.1 | 3004.9 | 4220.6 | 4326.5 | 3998.2 | 3434.9 | 2687.7 | 1656.6 |
| 77.5° | 210.5 | 203.8 | 298.7 | 661.2 | 1746.3 | 3109.5 | 3150.2 | 3016.8 | 2397.9 | 1472.1 | 614.5 |
| 80° | 117.1 | 117.9 | 154.2 | 247.6 | 767.9 | 1797.5 | 1944.2 | 1863.4 | 1176.3 | 486.2 | 204.6 |
| 82.5° | 65.2 | 68.9 | 96.4 | 146.8 | 352.8 | 825.0 | 888.0 | 856.1 | 425.5 | 228.3 | 111.9 |
| 85° | 34.1 | 35.6 | 50.4 | 78.6 | 200.1 | 260.9 | 268.3 | 287.6 | 220.9 | 155.7 | 60.0 |
| 87.5° | 13.3 | 13.3 | 18.5 | 32.6 | 74.1 | 80.8 | 72.6 | 88.2 | 126.8 | 100.8 | 29.6 |
| 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° | 707.9 | 707.9 | 707.9 | 707.9 | 707.9 | 707.9 | 707.9 | 707.9 | 707.9 | 707.9 | 707.9 |
| 2.5° | 719.0 | 713.1 | 712.3 | 702.7 | 705.6 | 697.5 | 698.2 | 696.8 | 697.5 | 696.0 | 692.3 |
| 5° | 715.3 | 710.8 | 698.2 | 706.4 | 699.0 | 709.4 | 717.5 | 714.5 | 716.8 | 716.0 | 716.8 |
| 7.5° | 720.5 | 714.5 | 713.1 | 708.6 | 715.3 | 719.7 | 726.4 | 744.9 | 743.5 | 745.7 | 750.1 |
| 10° | 736.0 | 729.4 | 724.9 | 731.6 | 727.9 | 742.0 | 749.4 | 759.0 | 776.1 | 776.8 | 767.9 |
| 12.5° | 766.4 | 762.0 | 753.1 | 754.6 | 767.2 | 771.6 | 776.1 | 782.0 | 793.1 | 790.9 | 799.0 |
| 15° | 801.3 | 791.6 | 786.4 | 785.0 | 787.9 | 793.1 | 792.4 | 798.3 | 804.2 | 809.4 | 807.2 |
| 17.5° | 826.5 | 813.9 | 815.4 | 822.8 | 822.0 | 820.5 | 810.9 | 807.9 | 810.9 | 813.9 | 812.4 |
| 20° | 852.4 | 853.9 | 842.8 | 836.1 | 833.1 | 818.3 | 810.9 | 802.0 | 793.1 | 797.6 | 804.2 |
| 22.5° | 885.0 | 878.4 | 862.0 | 842.0 | 827.2 | 818.3 | 795.3 | 779.8 | 779.8 | 784.2 | 782.0 |
| 25° | 922.1 | 908.0 | 879.8 | 843.5 | 825.0 | 787.2 | 770.9 | 768.7 | 762.7 | 769.4 | 772.4 |
| 27.5° | 951.0 | 938.4 | 899.9 | 838.3 | 787.2 | 756.8 | 747.2 | 744.2 | 753.8 | 754.6 | 766.4 |
| 30° | 962.9 | 959.1 | 902.8 | 825.0 | 748.6 | 699.7 | 693.8 | 707.1 | 717.5 | 733.1 | 733.8 |
| 32.5° | 978.4 | 979.9 | 907.3 | 793.9 | 698.2 | 649.3 | 640.4 | 656.7 | 686.4 | 699.0 | 708.6 |
| 35° | 1004.4 | 1011.8 | 903.6 | 755.3 | 644.9 | 598.2 | 596.7 | 601.1 | 630.0 | 652.3 | 664.9 |
| 37.5° | 1049.6 | 1048.1 | 902.8 | 709.4 | 602.6 | 553.7 | 541.8 | 543.3 | 562.6 | 581.1 | 578.9 |
| 40° | 1110.4 | 1104.4 | 900.6 | 649.3 | 547.8 | 515.9 | 495.9 | 488.5 | 487.0 | 481.8 | 483.3 |
| 42.5° | 1193.4 | 1181.5 | 899.9 | 588.5 | 498.1 | 464.0 | 449.9 | 430.7 | 416.6 | 389.9 | 391.4 |
| 45° | 1309.0 | 1288.3 | 880.6 | 531.5 | 449.2 | 421.0 | 399.5 | 385.4 | 355.0 | 321.7 | 321.7 |
| 47.5° | 1487.6 | 1420.2 | 881.3 | 468.5 | 401.7 | 378.8 | 363.9 | 339.5 | 306.9 | 280.2 | 277.2 |
| 50° | 1750.8 | 1596.6 | 856.1 | 418.8 | 363.2 | 347.6 | 332.1 | 303.9 | 272.8 | 254.2 | 256.5 |
| 52.5° | 2090.3 | 1859.7 | 855.4 | 374.3 | 332.8 | 321.7 | 304.6 | 279.4 | 256.5 | 244.6 | 240.2 |
| 55° | 2495.0 | 2208.1 | 882.1 | 338.0 | 301.7 | 295.8 | 288.3 | 267.6 | 245.3 | 235.0 | 234.2 |
| 57.5° | 2909.3 | 2548.3 | 925.1 | 312.1 | 275.0 | 279.4 | 274.3 | 257.9 | 240.2 | 228.3 | 226.8 |
| 60° | 3277.7 | 2818.1 | 838.3 | 280.9 | 251.3 | 260.9 | 268.3 | 254.2 | 244.6 | 243.9 | 238.7 |
| 62.5° | 3555.7 | 2933.8 | 637.5 | 257.2 | 238.7 | 256.5 | 276.5 | 285.4 | 280.9 | 286.9 | 287.6 |
| 65° | 3657.2 | 2864.1 | 438.8 | 244.6 | 229.0 | 266.8 | 311.3 | 308.4 | 282.4 | 271.3 | 277.2 |
| 67.5° | 3514.9 | 2581.7 | 325.4 | 229.8 | 222.4 | 288.3 | 331.3 | 294.3 | 255.0 | 253.5 | 249.1 |
| 70° | 3022.7 | 2188.1 | 265.4 | 214.2 | 211.3 | 276.5 | 322.4 | 272.8 | 240.2 | 230.5 | 226.1 |
| 72° | 2408.3 | 1704.1 | 232.7 | 203.1 | 193.5 | 246.8 | 301.7 | 255.7 | 227.6 | 215.7 | 210.5 |
| 72.5° | 2198.5 | 1579.6 | 228.3 | 197.9 | 189.8 | 240.2 | 291.3 | 250.5 | 224.6 | 214.2 | 206.1 |
| 75° | 1206.0 | 808.7 | 200.9 | 181.6 | 160.1 | 207.5 | 269.8 | 235.0 | 212.0 | 197.2 | 195.7 |
| 77.5° | 448.4 | 313.5 | 173.4 | 160.8 | 138.6 | 179.4 | 245.3 | 223.1 | 192.7 | 174.2 | 170.5 |
| 80° | 172.0 | 165.3 | 141.6 | 135.6 | 116.4 | 157.1 | 226.1 | 200.1 | 163.8 | 145.3 | 139.4 |
| 82.5° | 104.5 | 96.4 | 107.5 | 106.0 | 88.9 | 143.1 | 212.7 | 187.5 | 145.3 | 117.9 | 114.1 |
| 85° | 57.1 | 57.1 | 74.9 | 71.9 | 62.3 | 114.1 | 160.8 | 124.5 | 91.9 | 75.6 | 77.1 |
| 87.5° | 25.2 | 29.6 | 40.0 | 37.8 | 34.1 | 64.5 | 78.6 | 66.0 | 46.0 | 31.1 | 33.4 |
| 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)