

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: P477995

Luminaire Tested: **IFLD-S-SA2A-722-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477995
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-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

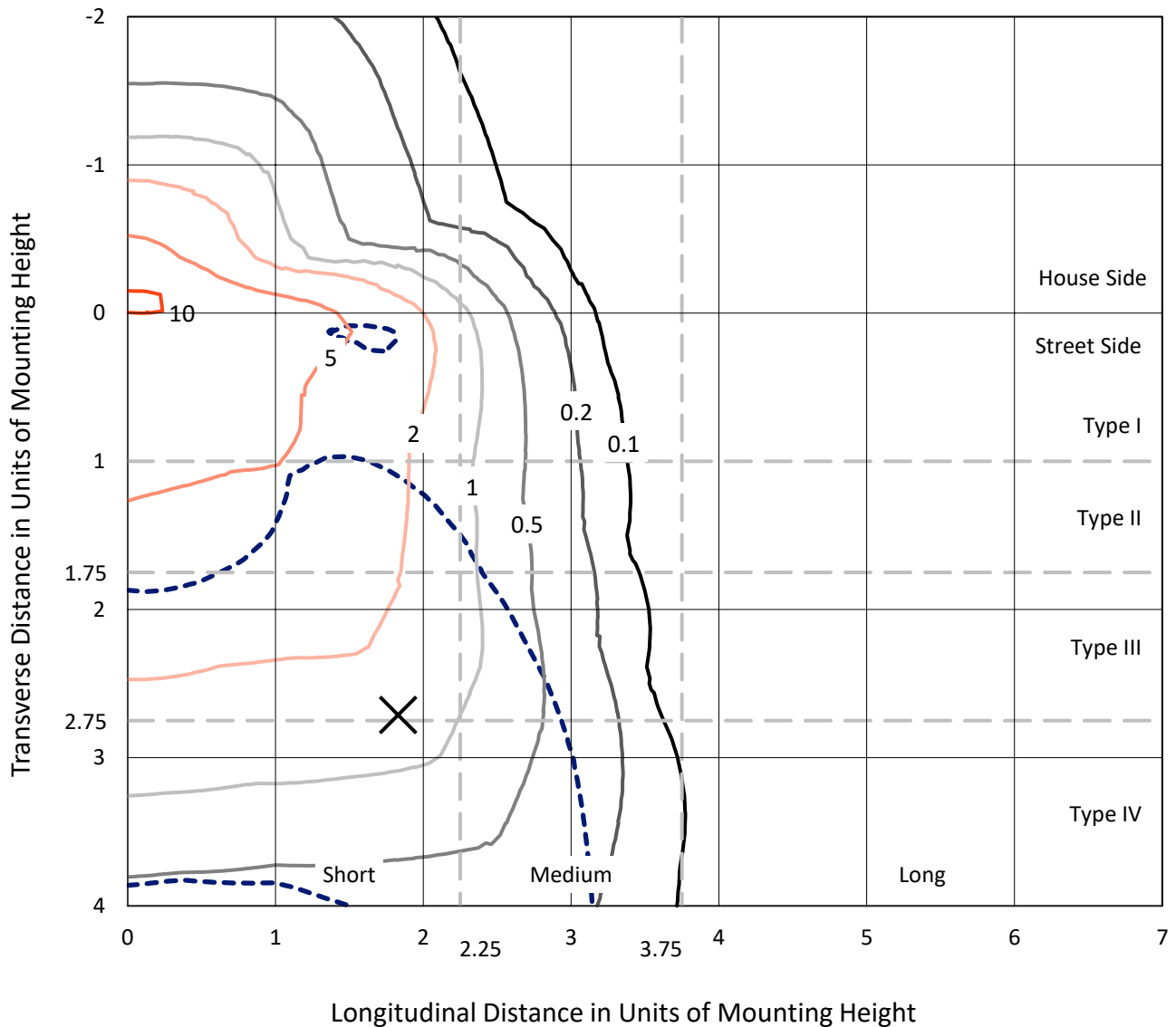
Lumens per Lamp: N/A
Luminaire Lumens: 6967 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

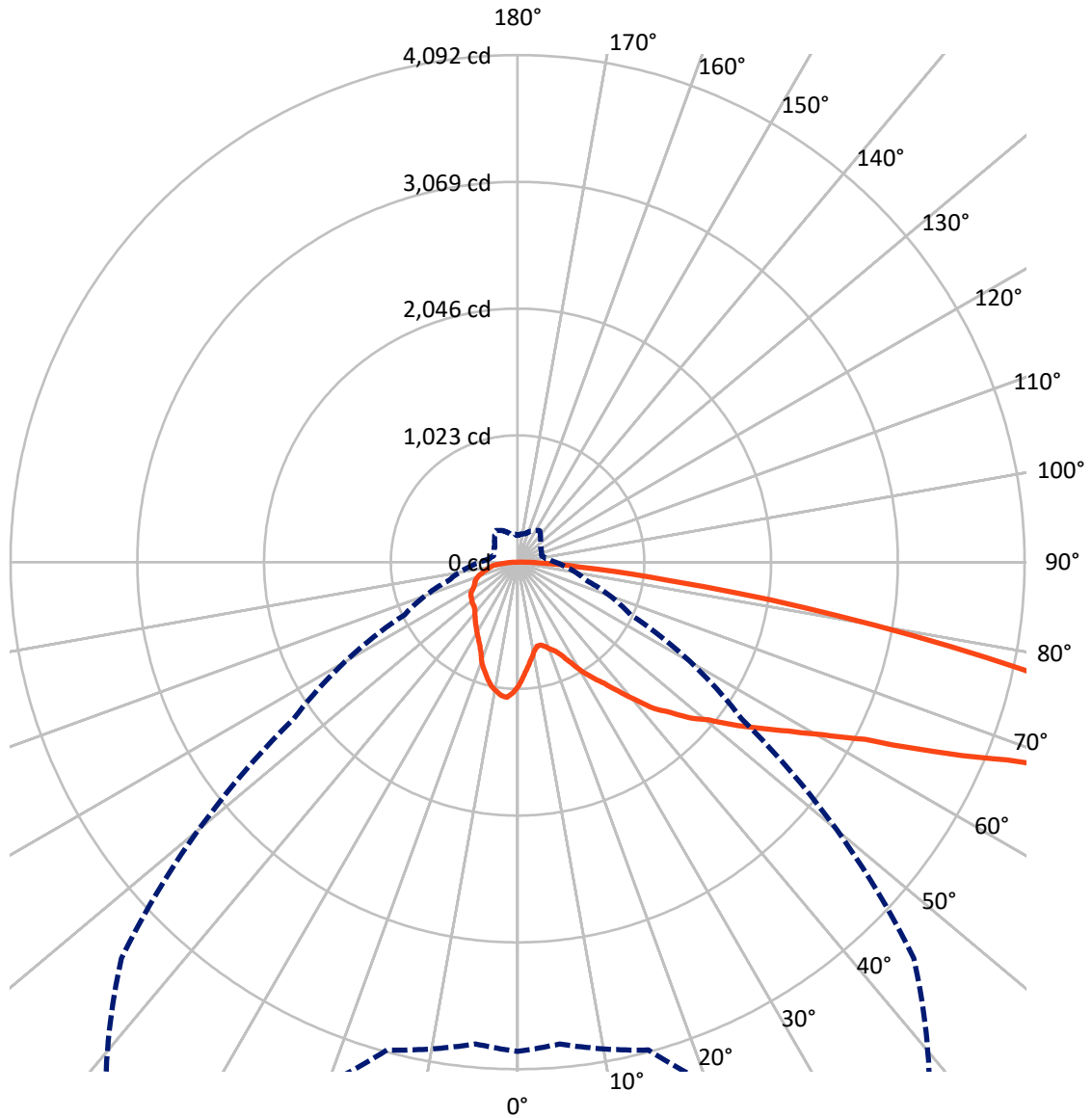
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 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 |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1505.0 | 0.0 | 1505.0 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 5462.0 | 0.0 | 5462.0 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 6967.0 | 0.0 | 6967.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 92.2 | 1.3 |
| 10°-20° | 258.0 | 3.7 |
| 20°-30° | 424.6 | 6.1 |
| 30°-40° | 635.0 | 9.1 |
| 40°-50° | 941.4 | 13.5 |
| 50°-60° | 1356.6 | 19.5 |
| 60°-70° | 1731.2 | 24.8 |
| 70°-80° | 1347.2 | 19.3 |
| 80°-90° | 180.7 | 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° | 6967.0 | 100.0 |
| 0°-180° | 6967.0 | 100.0 |

Coefficient of Utilization



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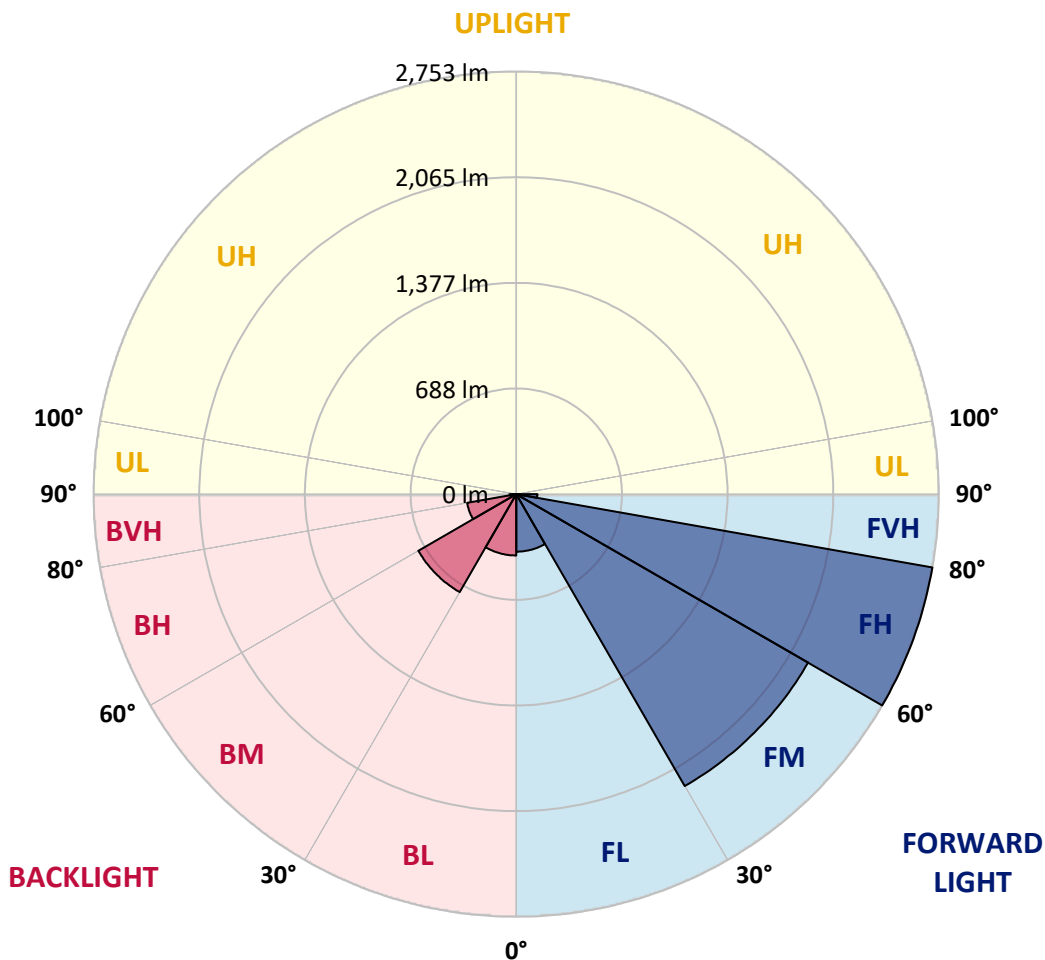
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 374.9 | 5.4 | | | |
| FM (30°-60°) | 2196.0 | 31.5 | | | |
| FH (60°-80°) | 2753.5 | 39.5 | | | G2/5000 |
| FVH (80°-90°) | 137.6 | 2.0 | | | G2/225 |
| BL (0°-30°) | 399.9 | 5.7 | B1/500 | | |
| BM (30°-60°) | 737.0 | 10.6 | B1/1000 | | |
| BH (60°-80°) | 325.0 | 4.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 43.2 | 0.6 | | | 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° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 998.8 | 998.8 | 998.8 | 998.8 | 998.8 | 998.8 | 998.8 | 998.8 | 998.8 | 998.8 | 998.8 |
| 2.5° | 895.0 | 897.9 | 907.5 | 909.7 | 920.0 | 914.1 | 926.6 | 948.7 | 961.3 | 979.7 | 1001.8 |
| 5° | 824.3 | 811.7 | 817.6 | 840.5 | 852.2 | 855.2 | 868.5 | 906.0 | 929.6 | 956.8 | 998.1 |
| 7.5° | 741.0 | 738.8 | 750.6 | 765.3 | 788.9 | 791.1 | 820.6 | 853.7 | 902.3 | 962.7 | 1011.4 |
| 10° | 684.3 | 693.9 | 700.5 | 716.0 | 732.2 | 732.2 | 769.7 | 827.2 | 882.4 | 940.6 | 1014.3 |
| 12.5° | 681.4 | 675.5 | 676.9 | 685.0 | 696.8 | 711.6 | 746.9 | 798.5 | 868.5 | 936.2 | 1026.8 |
| 15° | 690.9 | 693.1 | 679.9 | 690.2 | 694.6 | 699.8 | 738.8 | 797.0 | 859.6 | 951.7 | 1048.2 |
| 17.5° | 741.8 | 729.2 | 708.6 | 699.0 | 714.5 | 714.5 | 741.0 | 786.7 | 861.1 | 959.8 | 1079.1 |
| 20° | 781.5 | 781.5 | 747.6 | 737.3 | 748.4 | 746.2 | 764.6 | 798.5 | 868.5 | 976.0 | 1113.7 |
| 22.5° | 848.6 | 858.1 | 802.2 | 780.8 | 780.1 | 786.0 | 802.2 | 830.9 | 889.1 | 998.8 | 1146.9 |
| 25° | 945.1 | 947.3 | 882.4 | 860.3 | 836.8 | 846.4 | 849.3 | 878.0 | 907.5 | 1025.3 | 1184.5 |
| 27.5° | 1052.6 | 1051.1 | 991.5 | 936.2 | 920.8 | 923.0 | 906.8 | 925.9 | 934.7 | 1033.4 | 1238.2 |
| 30° | 1171.9 | 1158.7 | 1113.7 | 1035.7 | 1023.1 | 1009.1 | 973.8 | 973.0 | 991.5 | 1079.1 | 1312.6 |
| 32.5° | 1250.0 | 1233.1 | 1202.1 | 1146.1 | 1111.5 | 1113.0 | 1057.0 | 1056.3 | 1040.1 | 1129.2 | 1377.4 |
| 35° | 1326.6 | 1300.8 | 1292.7 | 1235.3 | 1200.7 | 1204.3 | 1159.4 | 1153.5 | 1124.1 | 1205.1 | 1484.2 |
| 37.5° | 1418.7 | 1395.9 | 1408.4 | 1364.9 | 1322.2 | 1304.5 | 1283.9 | 1276.5 | 1238.2 | 1311.9 | 1630.1 |
| 40° | 1520.3 | 1513.0 | 1504.9 | 1483.5 | 1457.7 | 1459.2 | 1437.1 | 1429.7 | 1373.0 | 1440.8 | 1770.0 |
| 42.5° | 1657.4 | 1629.4 | 1587.4 | 1601.4 | 1614.6 | 1628.6 | 1621.3 | 1602.1 | 1543.2 | 1571.9 | 1926.2 |
| 45° | 1784.8 | 1748.0 | 1670.6 | 1675.0 | 1729.5 | 1740.6 | 1829.7 | 1827.5 | 1708.9 | 1738.4 | 2103.7 |
| 47.5° | 1871.0 | 1854.0 | 1807.6 | 1802.5 | 1880.5 | 1879.8 | 2040.4 | 2040.4 | 1883.5 | 1904.1 | 2294.5 |
| 50° | 1999.1 | 1954.9 | 1935.0 | 1960.8 | 2000.6 | 2027.9 | 2255.5 | 2269.5 | 2055.1 | 2077.2 | 2544.2 |
| 52.5° | 2149.4 | 2094.2 | 2044.1 | 2110.4 | 2181.1 | 2198.8 | 2468.3 | 2462.5 | 2187.0 | 2278.3 | 2836.6 |
| 55° | 2273.9 | 2245.9 | 2211.3 | 2249.6 | 2365.2 | 2387.3 | 2682.0 | 2627.5 | 2318.8 | 2444.8 | 2977.3 |
| 57.5° | 2419.0 | 2435.9 | 2443.3 | 2433.7 | 2571.5 | 2606.1 | 2925.8 | 2769.6 | 2432.3 | 2556.7 | 3059.8 |
| 60° | 2637.8 | 2648.1 | 2657.7 | 2680.5 | 2826.3 | 2874.9 | 3118.8 | 2947.9 | 2503.7 | 2621.6 | 3066.5 |
| 62.5° | 2970.7 | 2930.9 | 2952.3 | 3031.1 | 3148.2 | 3203.5 | 3403.1 | 3073.1 | 2558.2 | 2660.6 | 2849.9 |
| 65° | 3351.5 | 3297.8 | 3275.7 | 3377.3 | 3680.8 | 3636.6 | 3758.1 | 3166.6 | 2479.4 | 2514.8 | 2416.8 |
| 67.5° | 3737.5 | 3743.4 | 3686.7 | 3890.7 | 4262.7 | 4262.7 | 4088.1 | 3211.6 | 2265.8 | 2038.2 | 1694.9 |
| 70° | 4043.9 | 4062.3 | 4093.3 | 4488.8 | 5078.1 | 5167.2 | 4496.9 | 3027.4 | 1830.5 | 1356.8 | 926.6 |
| 72.5° | 4039.5 | 3984.3 | 4142.6 | 4871.1 | 5819.1 | 5744.7 | 4582.4 | 2394.0 | 1142.5 | 664.4 | 425.0 |
| 73° | 3948.9 | 3902.5 | 4075.6 | 4867.5 | 5849.3 | 5779.4 | 4519.8 | 2206.9 | 1007.7 | 576.0 | 377.9 |
| 75° | 3224.8 | 3140.9 | 3435.5 | 4408.6 | 5411.8 | 5465.6 | 3839.9 | 1439.3 | 552.5 | 355.0 | 265.9 |
| 77.5° | 1470.3 | 1507.1 | 1890.9 | 2957.4 | 4170.6 | 4234.0 | 2524.3 | 622.4 | 302.7 | 249.0 | 195.9 |
| 80° | 472.2 | 495.7 | 735.9 | 1470.3 | 2614.2 | 2728.4 | 1166.8 | 282.9 | 215.8 | 190.8 | 146.6 |
| 82.5° | 180.5 | 179.7 | 308.6 | 611.4 | 1239.0 | 1311.9 | 426.5 | 172.4 | 160.6 | 140.7 | 103.9 |
| 85° | 63.3 | 66.3 | 116.4 | 241.6 | 487.6 | 510.5 | 148.1 | 95.8 | 111.2 | 94.3 | 59.7 |
| 87.5° | 22.1 | 22.8 | 41.2 | 87.7 | 167.9 | 177.5 | 41.2 | 38.3 | 55.2 | 54.5 | 30.2 |
| 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° | 998.8 | 998.8 | 998.8 | 998.8 | 998.8 | 998.8 | 998.8 | 998.8 | 998.8 | 998.8 | 998.8 |
| 2.5° | 1009.1 | 1015.8 | 1018.0 | 1044.5 | 1044.5 | 1044.5 | 1054.8 | 1054.8 | 1051.9 | 1044.5 | 1062.2 |
| 5° | 1013.6 | 1025.3 | 1048.2 | 1071.0 | 1076.9 | 1082.1 | 1096.1 | 1084.3 | 1088.7 | 1081.3 | 1088.0 |
| 7.5° | 1026.1 | 1042.3 | 1085.0 | 1099.0 | 1089.4 | 1100.5 | 1085.7 | 1077.6 | 1069.5 | 1072.5 | 1062.2 |
| 10° | 1047.4 | 1068.1 | 1088.0 | 1113.7 | 1095.3 | 1084.3 | 1054.1 | 1046.7 | 1020.9 | 1012.1 | 1020.2 |
| 12.5° | 1074.0 | 1099.0 | 1132.9 | 1123.3 | 1088.0 | 1056.3 | 1023.9 | 992.9 | 977.5 | 955.4 | 961.3 |
| 15° | 1100.5 | 1129.2 | 1134.4 | 1118.2 | 1074.0 | 1034.2 | 975.3 | 931.8 | 916.3 | 896.4 | 906.8 |
| 17.5° | 1129.2 | 1156.5 | 1147.6 | 1105.6 | 1046.0 | 985.6 | 918.5 | 875.8 | 843.4 | 830.9 | 830.9 |
| 20° | 1171.9 | 1185.2 | 1171.2 | 1085.0 | 1012.1 | 932.5 | 867.7 | 819.1 | 786.7 | 781.5 | 773.4 |
| 22.5° | 1205.1 | 1226.4 | 1163.8 | 1054.8 | 962.7 | 863.3 | 788.9 | 770.5 | 760.9 | 752.8 | 742.5 |
| 25° | 1247.8 | 1247.1 | 1150.6 | 1026.8 | 878.0 | 780.8 | 735.9 | 734.4 | 730.0 | 727.0 | 741.0 |
| 27.5° | 1288.3 | 1271.4 | 1135.1 | 957.6 | 790.4 | 718.2 | 693.9 | 710.1 | 716.7 | 712.3 | 718.2 |
| 30° | 1352.4 | 1324.4 | 1113.0 | 883.9 | 713.0 | 654.8 | 659.3 | 681.4 | 692.4 | 699.0 | 690.2 |
| 32.5° | 1420.2 | 1377.4 | 1067.3 | 807.3 | 644.5 | 615.1 | 625.4 | 648.2 | 661.5 | 668.8 | 676.9 |
| 35° | 1518.1 | 1418.7 | 1020.9 | 707.1 | 595.2 | 590.8 | 596.6 | 609.2 | 628.3 | 633.5 | 635.7 |
| 37.5° | 1638.9 | 1481.3 | 958.3 | 626.8 | 556.9 | 562.0 | 567.9 | 572.3 | 573.1 | 582.7 | 579.0 |
| 40° | 1759.7 | 1534.3 | 867.0 | 550.2 | 517.1 | 545.1 | 542.1 | 534.0 | 527.4 | 518.6 | 516.4 |
| 42.5° | 1865.8 | 1580.7 | 765.3 | 485.4 | 481.7 | 527.4 | 517.8 | 497.2 | 481.7 | 475.1 | 464.1 |
| 45° | 1985.1 | 1646.3 | 662.9 | 444.9 | 454.5 | 506.0 | 503.1 | 471.4 | 451.5 | 428.0 | 425.0 |
| 47.5° | 2139.8 | 1714.8 | 565.0 | 402.9 | 428.7 | 497.9 | 499.4 | 458.9 | 430.2 | 398.5 | 394.1 |
| 50° | 2338.0 | 1813.5 | 490.6 | 385.2 | 413.2 | 486.2 | 488.4 | 442.0 | 404.4 | 372.0 | 369.0 |
| 52.5° | 2528.0 | 1914.4 | 428.7 | 358.0 | 402.9 | 472.2 | 477.3 | 426.5 | 383.0 | 342.5 | 344.7 |
| 55° | 2623.8 | 1877.6 | 375.7 | 338.1 | 379.3 | 449.3 | 468.5 | 415.4 | 350.6 | 322.6 | 321.9 |
| 57.5° | 2645.1 | 1787.0 | 333.7 | 317.5 | 359.5 | 425.0 | 453.7 | 382.3 | 335.9 | 312.3 | 309.4 |
| 60° | 2575.2 | 1628.6 | 300.5 | 295.4 | 334.4 | 400.0 | 419.9 | 364.6 | 321.2 | 302.0 | 297.6 |
| 62.5° | 2402.8 | 1464.4 | 277.7 | 285.1 | 313.1 | 372.7 | 398.5 | 352.1 | 307.2 | 293.9 | 284.3 |
| 65° | 1970.4 | 1204.3 | 259.3 | 265.2 | 291.0 | 346.2 | 385.2 | 338.1 | 294.6 | 282.1 | 281.4 |
| 67.5° | 1364.9 | 830.1 | 244.6 | 255.6 | 273.3 | 327.1 | 372.0 | 322.6 | 278.4 | 274.0 | 268.1 |
| 70° | 699.0 | 442.7 | 225.4 | 234.2 | 254.1 | 302.7 | 348.4 | 306.4 | 261.5 | 260.8 | 253.4 |
| 72.5° | 354.3 | 259.3 | 203.3 | 216.6 | 230.6 | 271.1 | 318.9 | 285.1 | 240.1 | 232.0 | 220.2 |
| 73° | 306.4 | 240.1 | 199.6 | 211.4 | 224.7 | 262.2 | 310.1 | 279.9 | 237.2 | 225.4 | 214.4 |
| 75° | 223.2 | 189.3 | 179.0 | 190.8 | 201.1 | 236.4 | 280.6 | 256.3 | 218.0 | 205.5 | 195.2 |
| 77.5° | 167.2 | 145.8 | 148.8 | 162.1 | 170.9 | 204.0 | 249.7 | 232.0 | 197.4 | 180.5 | 176.0 |
| 80° | 123.0 | 111.2 | 123.0 | 135.5 | 142.2 | 179.7 | 227.6 | 201.1 | 166.5 | 147.3 | 143.6 |
| 82.5° | 87.7 | 81.0 | 95.0 | 103.1 | 106.1 | 148.8 | 204.8 | 160.6 | 126.0 | 100.9 | 92.8 |
| 85° | 50.1 | 49.4 | 64.1 | 63.3 | 65.6 | 86.9 | 134.8 | 106.8 | 81.0 | 61.9 | 60.4 |
| 87.5° | 22.1 | 24.3 | 32.4 | 25.8 | 27.3 | 41.2 | 57.5 | 39.8 | 33.1 | 18.4 | 14.0 |
| 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)