

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: P483182

Luminaire Tested: **IFLD-S-SA2A-735-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483182
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-735-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

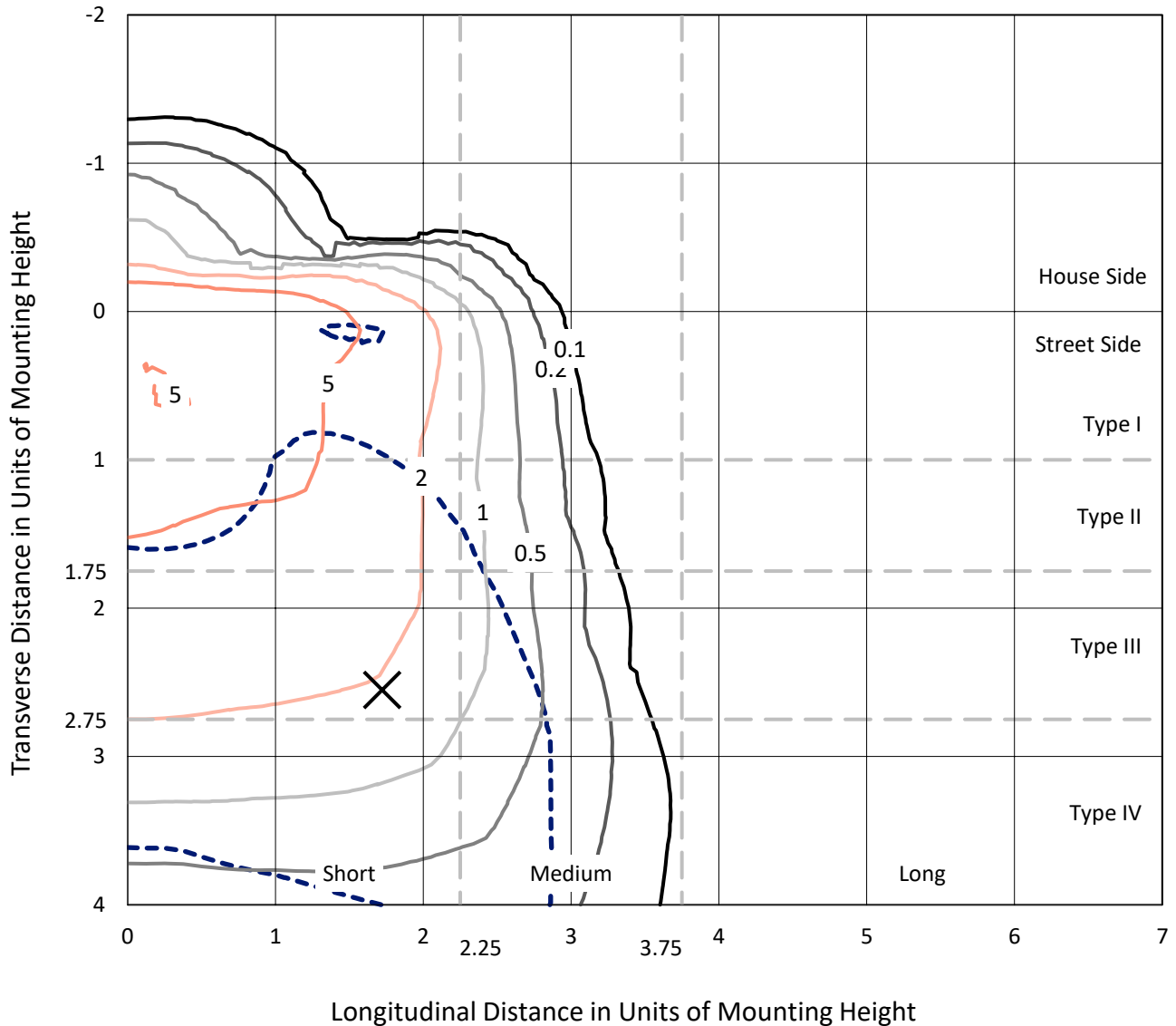
Lumens per Lamp: N/A
Luminaire Lumens: 6584.3 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

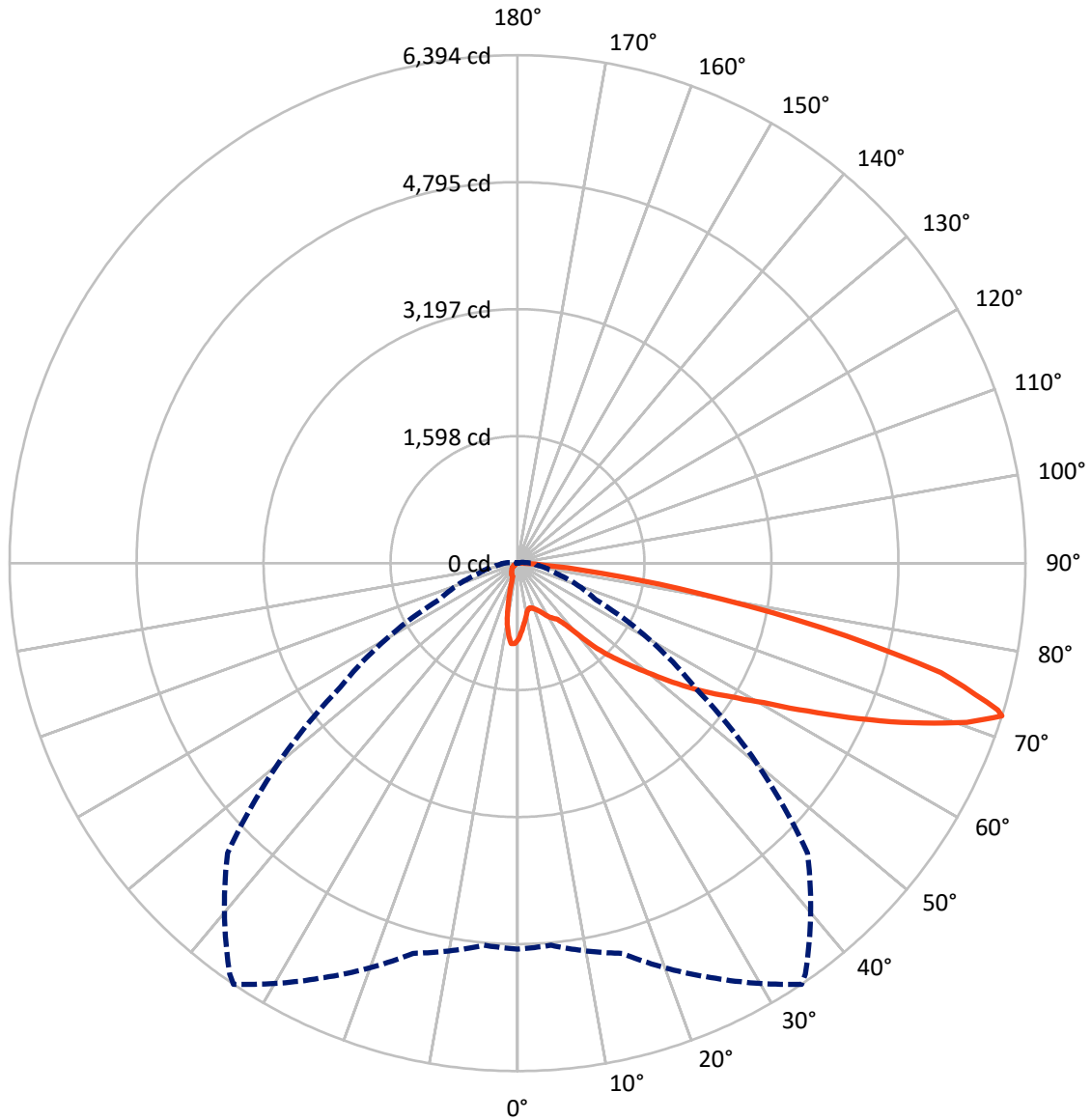
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 674.1 | 0.0 | 674.1 |
| | % Fixture | 10.2 | 0.0 | 10.2 |
| Street Side | Lumens | 5910.2 | 0.0 | 5910.2 |
| | % Fixture | 89.8 | 0.0 | 89.8 |
| Total | Lumens | 6584.3 | 0.0 | 6584.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 83.6 | 1.3 |
| 10°-20° | 189.3 | 2.9 |
| 20°-30° | 285.8 | 4.3 |
| 30°-40° | 463.7 | 7.0 |
| 40°-50° | 872.0 | 13.2 |
| 50°-60° | 1425.7 | 21.7 |
| 60°-70° | 1895.3 | 28.8 |
| 70°-80° | 1269.3 | 19.3 |
| 80°-90° | 99.5 | 1.5 |
| 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° | 6584.3 | 100.0 |
| 0°-180° | 6584.3 | 100.0 |

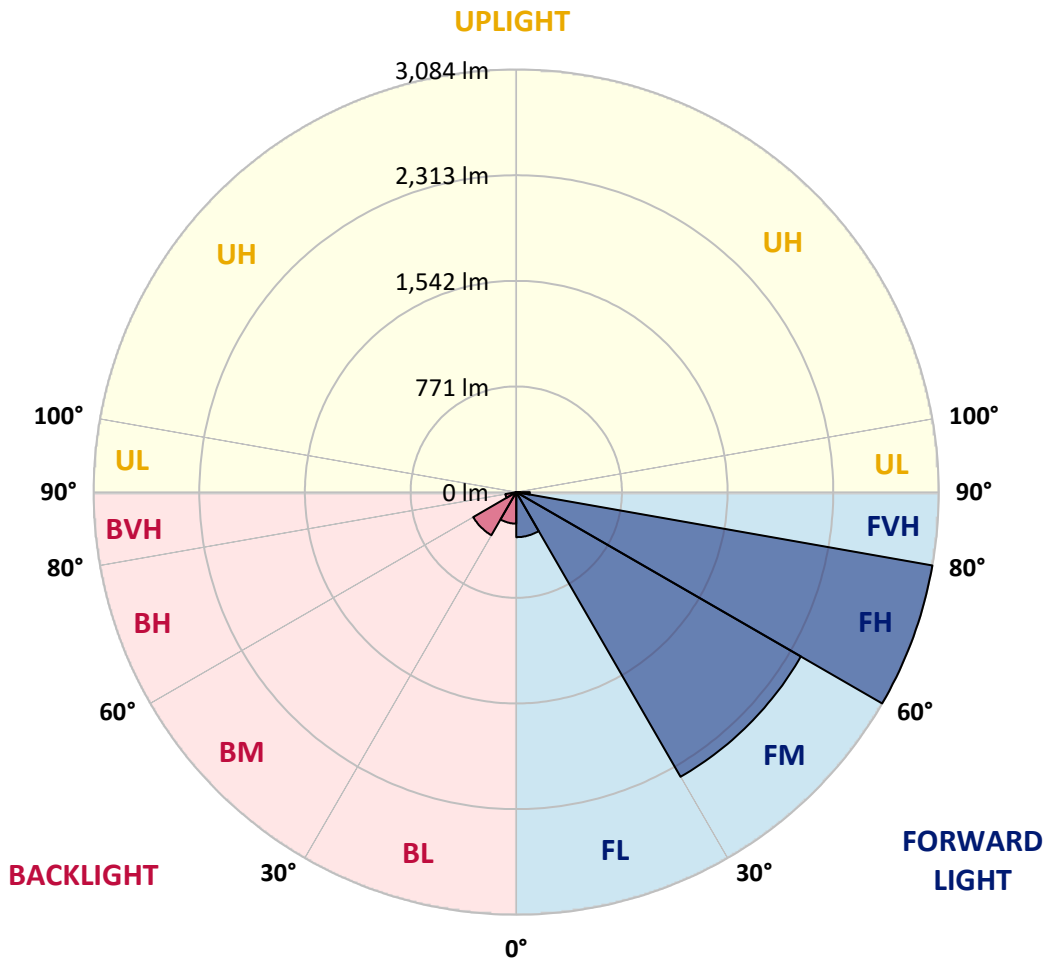


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 328.7 | 5.0 | | | |
| FM (30°-60°) | 2398.6 | 36.4 | | | |
| FH (60°-80°) | 3084.0 | 46.8 | | | G2/5000 |
| FVH (80°-90°) | 98.8 | 1.5 | | | G1/100 |
| BL (0°-30°) | 230.0 | 3.5 | B1/500 | | |
| BM (30°-60°) | 362.8 | 5.5 | B1/1000 | | |
| BH (60°-80°) | 80.6 | 1.2 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.6 | 0.0 | | | G0/10 |
| 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° | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 |
| 2.5° | 851.9 | 850.0 | 855.7 | 865.2 | 874.8 | 871.0 | 889.0 | 908.1 | 921.4 | 939.5 | 961.4 |
| 5° | 744.4 | 749.1 | 754.8 | 773.9 | 786.2 | 789.1 | 822.4 | 847.2 | 888.1 | 930.0 | 969.0 |
| 7.5° | 646.3 | 652.0 | 663.4 | 684.4 | 710.1 | 716.7 | 750.1 | 799.6 | 852.9 | 908.1 | 971.8 |
| 10° | 574.9 | 580.6 | 593.0 | 606.3 | 640.6 | 640.6 | 686.3 | 754.8 | 824.3 | 889.0 | 972.8 |
| 12.5° | 559.7 | 562.5 | 561.6 | 572.1 | 594.0 | 598.7 | 643.5 | 718.7 | 799.6 | 882.4 | 988.0 |
| 15° | 577.8 | 579.7 | 570.2 | 564.5 | 583.5 | 588.2 | 630.1 | 696.8 | 783.4 | 886.2 | 1012.8 |
| 17.5° | 613.9 | 607.3 | 588.2 | 579.7 | 595.9 | 598.7 | 637.7 | 695.8 | 781.5 | 896.7 | 1041.3 |
| 20° | 634.9 | 642.5 | 609.2 | 593.0 | 615.9 | 619.7 | 661.5 | 711.0 | 791.0 | 914.7 | 1081.3 |
| 22.5° | 672.0 | 675.8 | 631.1 | 620.6 | 642.5 | 642.5 | 690.1 | 741.5 | 813.8 | 944.2 | 1128.9 |
| 25° | 724.4 | 719.6 | 667.3 | 656.8 | 677.7 | 686.3 | 733.9 | 790.0 | 849.1 | 971.8 | 1172.7 |
| 27.5° | 765.3 | 768.1 | 725.3 | 697.7 | 732.9 | 738.6 | 790.0 | 842.4 | 875.7 | 994.7 | 1226.0 |
| 30° | 826.2 | 820.5 | 774.8 | 743.4 | 787.2 | 788.1 | 837.6 | 891.9 | 927.1 | 1035.6 | 1305.9 |
| 32.5° | 898.6 | 887.1 | 834.8 | 790.0 | 825.3 | 833.8 | 884.3 | 963.3 | 1007.1 | 1112.7 | 1429.7 |
| 35° | 1051.8 | 1024.2 | 938.5 | 869.0 | 871.9 | 875.7 | 953.8 | 1067.0 | 1117.5 | 1210.8 | 1595.3 |
| 37.5° | 1275.5 | 1264.1 | 1167.0 | 1034.7 | 984.2 | 972.8 | 1060.4 | 1204.1 | 1266.9 | 1340.2 | 1810.4 |
| 40° | 1497.3 | 1481.1 | 1390.7 | 1290.7 | 1199.3 | 1176.5 | 1220.3 | 1385.9 | 1443.0 | 1520.1 | 2031.3 |
| 42.5° | 1743.8 | 1715.2 | 1608.6 | 1527.7 | 1470.6 | 1445.9 | 1428.7 | 1614.4 | 1679.1 | 1731.4 | 2247.3 |
| 45° | 1993.2 | 1946.5 | 1792.3 | 1730.5 | 1700.0 | 1686.7 | 1684.8 | 1901.8 | 1940.8 | 1951.3 | 2487.2 |
| 47.5° | 2212.1 | 2161.7 | 2021.7 | 1952.3 | 1929.4 | 1925.6 | 2032.2 | 2233.1 | 2202.6 | 2175.0 | 2754.7 |
| 50° | 2380.6 | 2348.2 | 2247.3 | 2222.6 | 2205.5 | 2198.8 | 2448.2 | 2573.8 | 2432.9 | 2384.4 | 2989.8 |
| 52.5° | 2641.4 | 2569.1 | 2454.8 | 2463.4 | 2523.4 | 2524.3 | 2869.9 | 2897.5 | 2624.3 | 2528.1 | 3211.6 |
| 55° | 2849.9 | 2802.3 | 2709.0 | 2696.6 | 2854.6 | 2871.8 | 3247.7 | 3143.0 | 2730.9 | 2665.2 | 3293.4 |
| 57.5° | 3095.4 | 3073.5 | 3006.0 | 3007.9 | 3173.5 | 3209.7 | 3583.7 | 3350.5 | 2819.4 | 2753.7 | 3305.8 |
| 60° | 3450.5 | 3387.7 | 3352.4 | 3368.6 | 3563.8 | 3599.0 | 3909.3 | 3500.0 | 2862.2 | 2811.8 | 3275.3 |
| 62.5° | 3842.7 | 3769.4 | 3731.3 | 3814.1 | 4098.7 | 4104.4 | 4156.8 | 3632.3 | 2835.6 | 2827.0 | 3079.3 |
| 65° | 4314.8 | 4242.4 | 4212.0 | 4378.5 | 4716.5 | 4695.5 | 4504.2 | 3688.5 | 2750.9 | 2673.8 | 2564.3 |
| 67.5° | 4785.0 | 4741.2 | 4678.4 | 4944.0 | 5364.7 | 5364.7 | 4864.9 | 3667.5 | 2529.1 | 2146.4 | 1677.2 |
| 70° | 5007.7 | 5038.2 | 5138.1 | 5555.0 | 6001.5 | 5955.8 | 5220.9 | 3426.7 | 1882.8 | 1152.7 | 659.6 |
| 72° | 4859.2 | 4827.8 | 5085.8 | 5754.9 | 6393.6 | 6318.4 | 5161.0 | 2724.2 | 1088.0 | 505.4 | 229.4 |
| 72.5° | 4604.1 | 4633.6 | 4988.7 | 5727.3 | 6320.3 | 6382.2 | 5014.4 | 2512.9 | 894.7 | 402.6 | 173.2 |
| 75° | 2823.2 | 2873.7 | 3723.7 | 4863.0 | 5507.5 | 5438.0 | 3878.8 | 1197.4 | 343.6 | 171.3 | 61.9 |
| 77.5° | 1030.9 | 1072.7 | 1806.6 | 3060.2 | 3916.9 | 3873.1 | 2244.5 | 425.5 | 186.6 | 127.5 | 31.4 |
| 80° | 268.4 | 290.3 | 613.9 | 1411.6 | 2303.5 | 2306.4 | 939.5 | 170.4 | 126.6 | 104.7 | 19.0 |
| 82.5° | 53.3 | 59.0 | 188.5 | 549.2 | 1076.6 | 1062.3 | 297.0 | 91.4 | 95.2 | 85.7 | 13.3 |
| 85° | 6.7 | 8.6 | 40.0 | 186.6 | 348.4 | 312.2 | 73.3 | 45.7 | 70.4 | 66.6 | 8.6 |
| 87.5° | 1.0 | 1.0 | 9.5 | 42.8 | 73.3 | 71.4 | 15.2 | 14.3 | 31.4 | 40.9 | 4.8 |
| 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° | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 |
| 2.5° | 973.8 | 977.6 | 990.9 | 1002.3 | 1015.6 | 1019.4 | 1013.7 | 1023.2 | 1009.9 | 1017.5 | 1019.4 |
| 5° | 975.7 | 997.5 | 1022.3 | 1038.5 | 1034.7 | 1025.2 | 1017.5 | 991.8 | 973.8 | 967.1 | 981.4 |
| 7.5° | 989.0 | 1013.7 | 1040.4 | 1040.4 | 1019.4 | 969.9 | 922.4 | 876.7 | 838.6 | 819.5 | 835.7 |
| 10° | 1006.1 | 1031.8 | 1059.4 | 1023.2 | 945.2 | 854.8 | 787.2 | 701.5 | 643.5 | 613.0 | 615.9 |
| 12.5° | 1029.0 | 1065.1 | 1074.6 | 990.9 | 861.4 | 727.2 | 604.4 | 485.4 | 430.2 | 386.5 | 387.4 |
| 15° | 1058.5 | 1093.7 | 1065.1 | 920.4 | 754.8 | 556.8 | 409.3 | 296.0 | 252.2 | 229.4 | 229.4 |
| 17.5° | 1097.5 | 1124.1 | 1062.3 | 855.7 | 611.1 | 380.7 | 251.3 | 199.9 | 190.4 | 186.6 | 186.6 |
| 20° | 1143.2 | 1163.2 | 1034.7 | 754.8 | 454.0 | 244.6 | 184.7 | 178.9 | 179.9 | 178.0 | 178.0 |
| 22.5° | 1194.6 | 1201.2 | 1003.3 | 637.7 | 307.5 | 180.9 | 172.3 | 173.2 | 174.2 | 172.3 | 173.2 |
| 25° | 1248.8 | 1230.8 | 957.6 | 500.7 | 204.6 | 164.7 | 166.6 | 168.5 | 169.4 | 170.4 | 170.4 |
| 27.5° | 1309.8 | 1273.6 | 893.8 | 366.5 | 159.9 | 155.2 | 160.9 | 166.6 | 167.5 | 167.5 | 166.6 |
| 30° | 1399.2 | 1339.3 | 831.9 | 248.4 | 140.9 | 144.7 | 154.2 | 160.9 | 165.6 | 165.6 | 164.7 |
| 32.5° | 1512.5 | 1407.8 | 745.3 | 169.4 | 130.4 | 132.3 | 139.9 | 153.2 | 163.7 | 164.7 | 161.8 |
| 35° | 1669.6 | 1490.6 | 654.9 | 135.2 | 122.8 | 123.7 | 128.5 | 139.0 | 157.1 | 162.8 | 161.8 |
| 37.5° | 1835.2 | 1584.8 | 542.6 | 121.8 | 117.1 | 116.1 | 119.0 | 127.5 | 143.7 | 158.0 | 159.0 |
| 40° | 2011.3 | 1683.8 | 424.5 | 115.2 | 112.3 | 110.4 | 111.4 | 115.2 | 127.5 | 145.6 | 149.4 |
| 42.5° | 2176.9 | 1773.3 | 318.9 | 108.5 | 107.6 | 105.7 | 105.7 | 106.6 | 113.3 | 125.6 | 127.5 |
| 45° | 2355.8 | 1846.6 | 242.7 | 103.8 | 100.9 | 101.8 | 98.0 | 96.1 | 100.9 | 101.8 | 100.9 |
| 47.5° | 2523.4 | 1919.9 | 194.2 | 98.0 | 95.2 | 95.2 | 90.4 | 86.6 | 86.6 | 78.1 | 77.1 |
| 50° | 2680.4 | 1959.9 | 155.2 | 90.4 | 89.5 | 88.5 | 81.9 | 75.2 | 69.5 | 59.0 | 57.1 |
| 52.5° | 2810.8 | 1958.0 | 119.9 | 80.9 | 83.8 | 80.9 | 70.4 | 60.9 | 52.4 | 42.8 | 40.9 |
| 55° | 2849.9 | 1866.6 | 90.4 | 66.6 | 71.4 | 67.6 | 56.2 | 47.6 | 38.1 | 30.5 | 29.5 |
| 57.5° | 2816.5 | 1727.6 | 68.5 | 51.4 | 55.2 | 51.4 | 42.8 | 35.2 | 26.7 | 20.9 | 19.0 |
| 60° | 2705.2 | 1564.9 | 53.3 | 40.0 | 41.9 | 39.0 | 32.4 | 26.7 | 19.0 | 13.3 | 11.4 |
| 62.5° | 2493.9 | 1361.2 | 40.9 | 31.4 | 30.5 | 30.5 | 24.7 | 20.0 | 13.3 | 7.6 | 6.7 |
| 65° | 2046.5 | 1061.3 | 31.4 | 21.9 | 21.9 | 21.9 | 19.0 | 14.3 | 8.6 | 3.8 | 1.9 |
| 67.5° | 1285.0 | 617.8 | 25.7 | 17.1 | 16.2 | 16.2 | 13.3 | 9.5 | 4.8 | 1.0 | 0.0 |
| 70° | 483.5 | 226.5 | 20.0 | 13.3 | 12.4 | 12.4 | 9.5 | 5.7 | 2.9 | 0.0 | 0.0 |
| 72° | 166.6 | 86.6 | 16.2 | 9.5 | 9.5 | 8.6 | 6.7 | 4.8 | 1.9 | 0.0 | 0.0 |
| 72.5° | 137.1 | 69.5 | 15.2 | 9.5 | 8.6 | 8.6 | 6.7 | 4.8 | 1.9 | 0.0 | 0.0 |
| 75° | 49.5 | 28.6 | 10.5 | 6.7 | 5.7 | 5.7 | 4.8 | 2.9 | 1.0 | 0.0 | 0.0 |
| 77.5° | 24.7 | 18.1 | 8.6 | 5.7 | 4.8 | 2.9 | 2.9 | 1.9 | 1.0 | 0.0 | 0.0 |
| 80° | 15.2 | 11.4 | 4.8 | 3.8 | 2.9 | 1.9 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 10.5 | 6.7 | 2.9 | 2.9 | 1.9 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 6.7 | 2.9 | 1.9 | 1.9 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.9 | 1.9 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)