

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: P367344

Luminaire Tested: **PMM-SA2B-750-U-T4FT**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-12)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA2B-750-U-T4FT
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9984 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

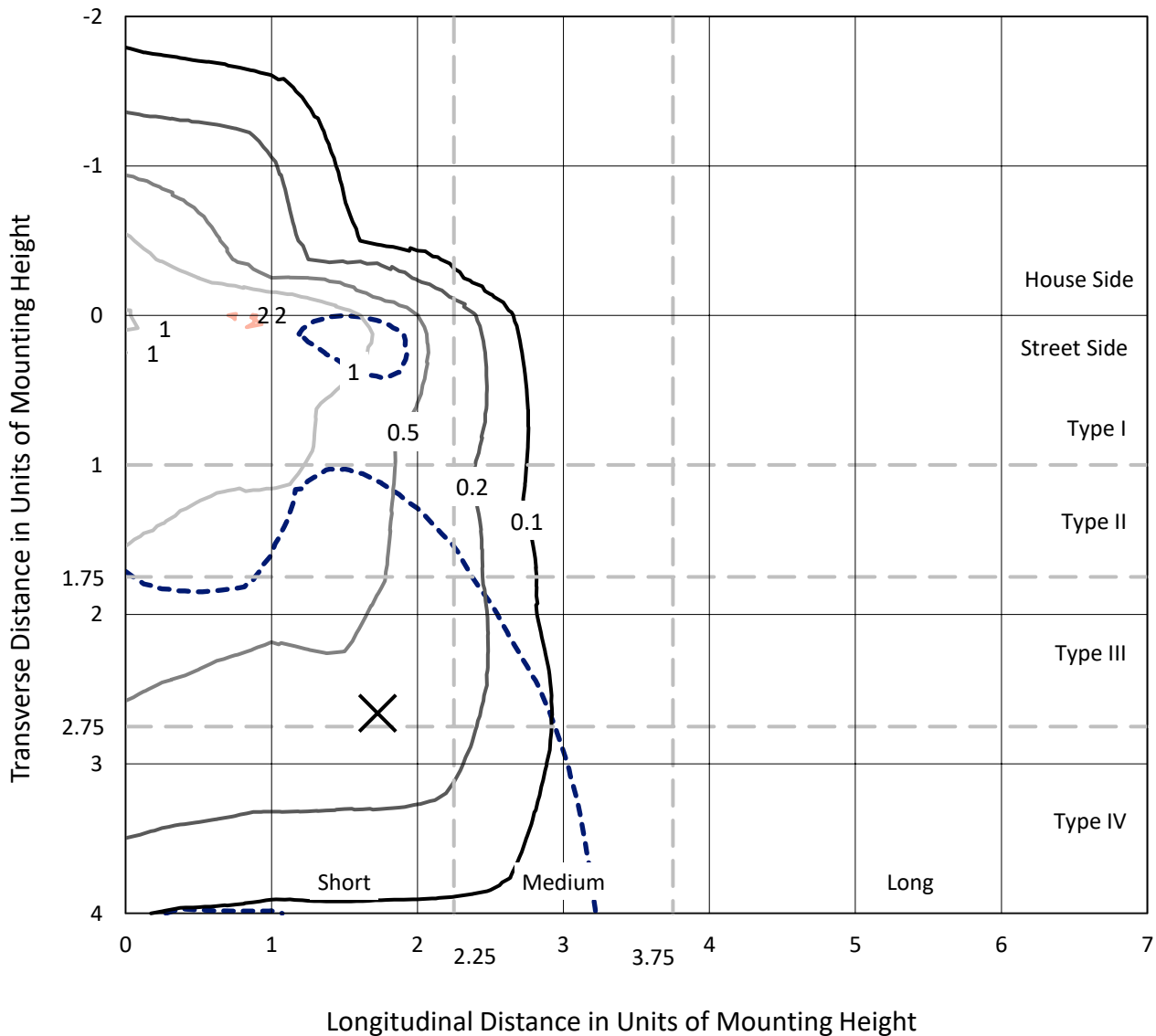
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

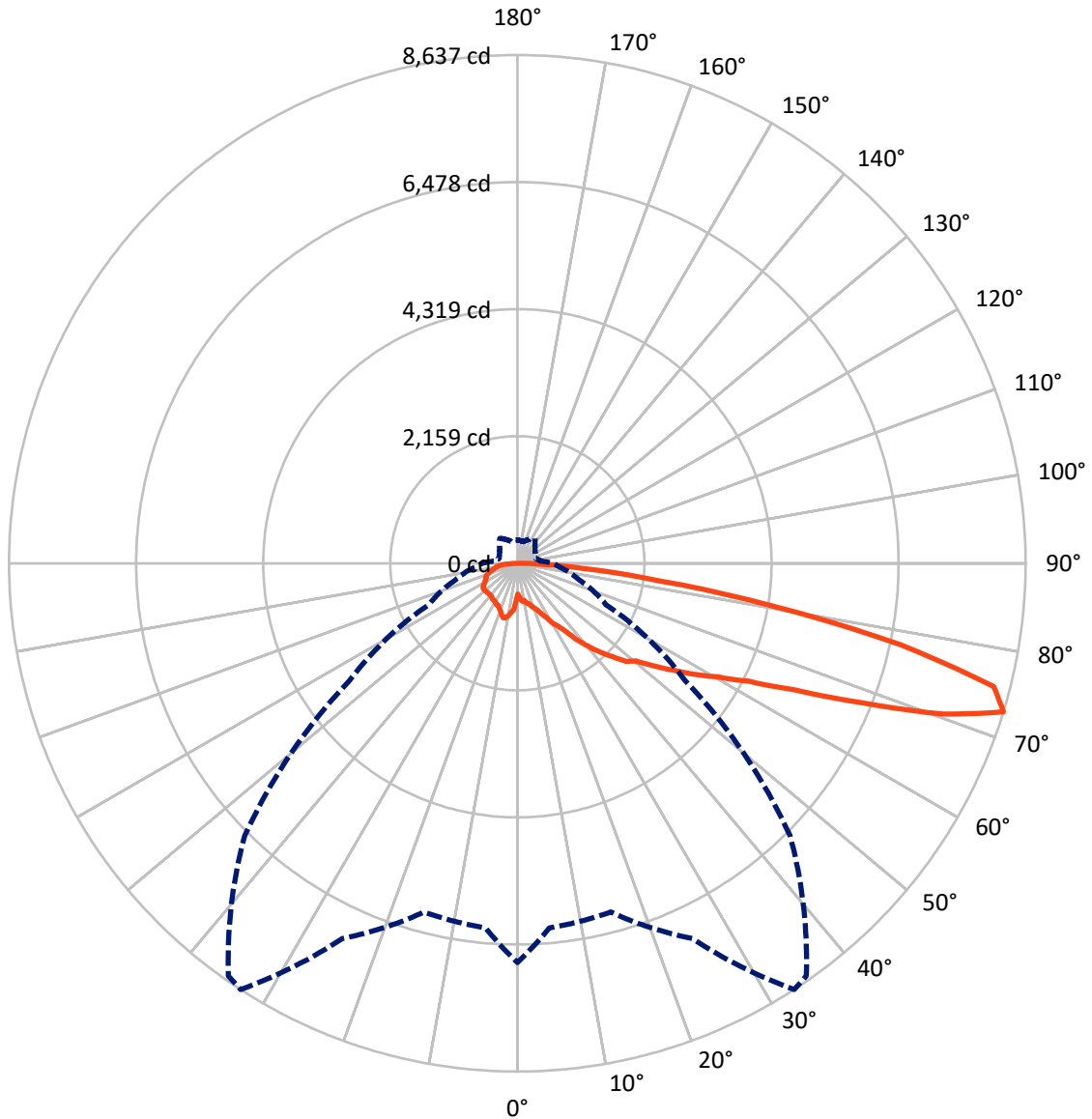
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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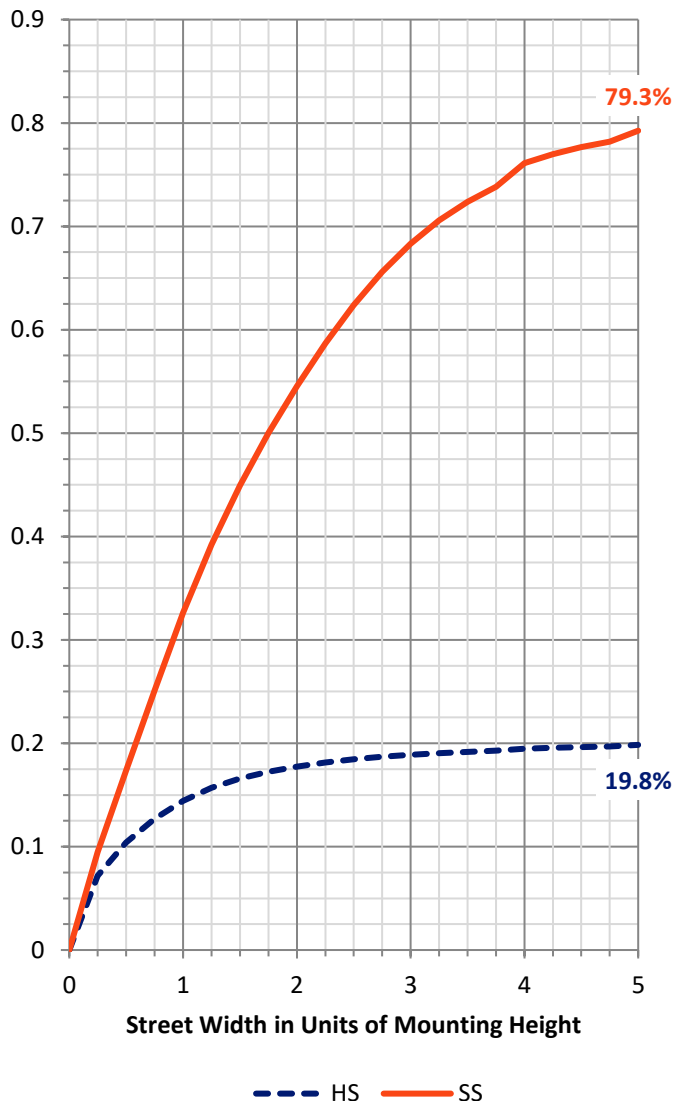
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2019.7 | 0.0 | 2019.7 |
| | % Fixture | 20.2 | 0.0 | 20.2 |
| Street Side | Lumens | 7964.3 | 0.0 | 7964.3 |
| | % Fixture | 79.8 | 0.0 | 79.8 |
| Total | Lumens | 9984.0 | 0.0 | 9984.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 72.0 | 0.7 |
| 10°-20° | 266.0 | 2.7 |
| 20°-30° | 485.1 | 4.9 |
| 30°-40° | 820.6 | 8.2 |
| 40°-50° | 1365.3 | 13.7 |
| 50°-60° | 2003.6 | 20.1 |
| 60°-70° | 2563.1 | 25.7 |
| 70°-80° | 2085.3 | 20.9 |
| 80°-90° | 323.0 | 3.2 |
| 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° | 9984.0 | 100.0 |
| 0°-180° | 9984.0 | 100.0 |



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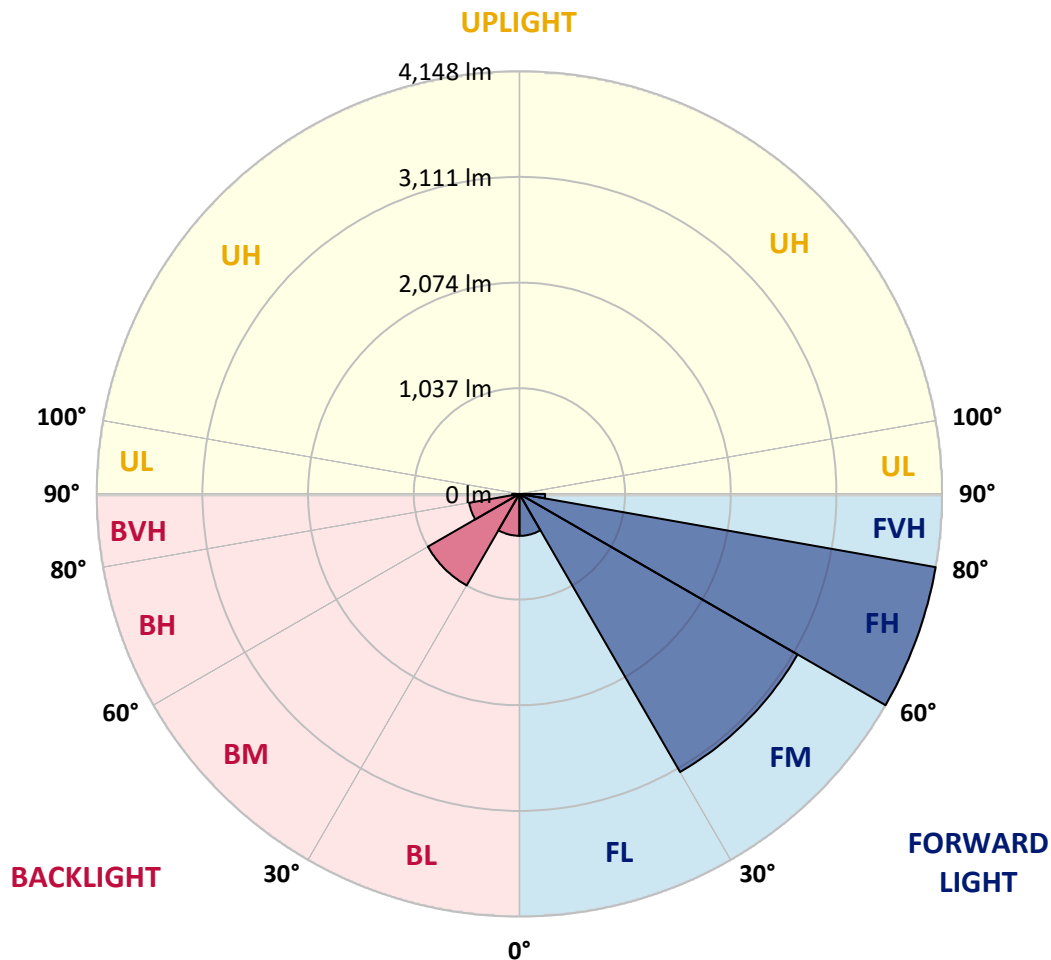
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 412.0 | 4.1 | | | |
| FM (30°-60°) | 3152.2 | 31.6 | | | |
| FH (60°-80°) | 4148.0 | 41.5 | | | G2/5000 |
| FVH (80°-90°) | 252.1 | 2.5 | | | G3/500 |
| BL (0°-30°) | 411.1 | 4.1 | B1/500 | | |
| BM (30°-60°) | 1037.3 | 10.4 | B2/2500 | | |
| BH (60°-80°) | 500.5 | 5.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 70.9 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 523.5 | 523.5 | 523.5 | 523.5 | 523.5 | 523.5 | 523.5 | 523.5 | 523.5 | 523.5 | 523.5 |
| 2.5° | 593.5 | 574.9 | 544.2 | 543.4 | 560.4 | 564.1 | 575.3 | 576.1 | 580.3 | 573.6 | 620.9 |
| 5° | 654.8 | 634.9 | 622.9 | 627.1 | 619.2 | 628.7 | 628.7 | 656.1 | 692.5 | 734.8 | 794.8 |
| 7.5° | 669.3 | 654.8 | 641.1 | 651.5 | 653.2 | 644.0 | 652.7 | 716.9 | 782.8 | 825.0 | 921.1 |
| 10° | 640.3 | 625.8 | 636.2 | 639.5 | 639.1 | 659.8 | 704.9 | 756.3 | 829.6 | 907.5 | 959.2 |
| 12.5° | 634.9 | 645.3 | 650.3 | 656.1 | 695.4 | 701.6 | 770.0 | 823.0 | 896.7 | 965.0 | 1099.6 |
| 15° | 714.9 | 728.5 | 697.9 | 695.8 | 708.7 | 714.5 | 785.3 | 838.7 | 946.4 | 1061.1 | 1182.1 |
| 17.5° | 828.8 | 833.7 | 778.7 | 750.5 | 760.0 | 764.6 | 795.6 | 862.7 | 929.0 | 1141.1 | 1291.8 |
| 20° | 938.9 | 942.3 | 838.7 | 775.8 | 809.3 | 814.3 | 843.3 | 881.8 | 934.0 | 1185.8 | 1366.0 |
| 22.5° | 1054.5 | 1033.4 | 919.9 | 840.4 | 859.8 | 861.1 | 878.1 | 899.2 | 973.3 | 1178.8 | 1456.3 |
| 25° | 1180.8 | 1167.6 | 1024.7 | 948.5 | 947.6 | 930.7 | 931.5 | 961.7 | 1015.2 | 1254.1 | 1515.5 |
| 27.5° | 1348.6 | 1350.2 | 1142.7 | 1101.7 | 1037.5 | 1026.3 | 970.4 | 1026.7 | 1087.6 | 1255.0 | 1643.5 |
| 30° | 1566.0 | 1525.8 | 1307.1 | 1240.9 | 1177.5 | 1153.9 | 1078.1 | 1126.2 | 1152.7 | 1326.6 | 1782.6 |
| 32.5° | 1742.9 | 1731.3 | 1478.6 | 1378.4 | 1274.8 | 1302.2 | 1218.5 | 1176.3 | 1223.9 | 1450.0 | 1993.4 |
| 35° | 1912.3 | 1874.2 | 1660.0 | 1529.6 | 1420.6 | 1404.1 | 1349.8 | 1356.8 | 1385.8 | 1606.2 | 2268.9 |
| 37.5° | 2164.9 | 2144.2 | 1916.8 | 1708.1 | 1657.1 | 1589.6 | 1555.2 | 1577.2 | 1554.4 | 1806.2 | 2681.8 |
| 40° | 2447.4 | 2327.3 | 2131.4 | 1945.4 | 1850.1 | 1802.5 | 1814.5 | 1793.8 | 1776.4 | 2030.7 | 3052.1 |
| 42.5° | 2717.8 | 2608.5 | 2273.8 | 2190.2 | 2065.9 | 2085.8 | 2020.0 | 2034.4 | 2083.7 | 2349.2 | 3394.6 |
| 45° | 3012.3 | 2775.8 | 2425.0 | 2351.3 | 2262.2 | 2287.5 | 2340.1 | 2324.4 | 2405.1 | 2724.9 | 3717.3 |
| 47.5° | 3159.4 | 2934.5 | 2610.6 | 2490.5 | 2489.2 | 2436.6 | 2756.8 | 2791.6 | 2665.2 | 3003.2 | 4044.9 |
| 50° | 3301.0 | 3079.8 | 2748.5 | 2667.3 | 2608.5 | 2721.2 | 3156.5 | 3076.5 | 2900.5 | 3322.5 | 4405.2 |
| 52.5° | 3498.2 | 3245.9 | 2906.7 | 2820.1 | 2893.0 | 2997.4 | 3475.4 | 3459.6 | 3131.2 | 3651.0 | 4718.3 |
| 55° | 3648.5 | 3393.8 | 3144.9 | 3064.5 | 3203.7 | 3306.0 | 3800.1 | 3705.2 | 3328.8 | 3892.0 | 4916.7 |
| 57.5° | 3911.9 | 3650.6 | 3496.5 | 3318.0 | 3568.2 | 3566.5 | 4113.2 | 4039.9 | 3540.0 | 4090.0 | 4996.7 |
| 60° | 4330.7 | 4023.7 | 3862.6 | 3656.8 | 3924.8 | 4020.4 | 4471.1 | 4259.8 | 3689.5 | 4215.1 | 4852.5 |
| 62.5° | 4918.4 | 4553.9 | 4292.5 | 4088.8 | 4415.6 | 4588.7 | 4913.0 | 4420.1 | 3699.0 | 4179.5 | 4473.5 |
| 65° | 5645.3 | 5202.1 | 4859.6 | 4644.2 | 5183.4 | 5430.7 | 5447.3 | 4519.1 | 3611.2 | 3811.3 | 3676.7 |
| 67.5° | 6354.3 | 5856.1 | 5498.6 | 5539.6 | 6327.0 | 6444.2 | 6026.3 | 4601.9 | 3139.5 | 3060.4 | 2553.0 |
| 70° | 6821.1 | 6281.0 | 6042.9 | 6477.8 | 7673.9 | 7553.8 | 6495.6 | 4383.7 | 2472.2 | 1983.9 | 1437.6 |
| 72.5° | 6785.9 | 6220.6 | 6134.8 | 7035.2 | 8637.3 | 8562.3 | 6552.7 | 3486.1 | 1655.9 | 1084.7 | 716.9 |
| 75° | 5528.5 | 5089.0 | 5283.7 | 6660.0 | 8359.8 | 8356.1 | 5689.2 | 2157.9 | 849.5 | 557.1 | 453.1 |
| 77.5° | 3056.6 | 2886.0 | 3458.0 | 5042.6 | 6656.3 | 6690.2 | 3844.0 | 978.7 | 458.1 | 394.7 | 341.3 |
| 80° | 1070.7 | 1054.9 | 1498.5 | 2721.2 | 4378.7 | 4387.0 | 1787.6 | 447.7 | 333.0 | 298.6 | 250.6 |
| 82.5° | 391.4 | 388.1 | 621.3 | 1264.1 | 2410.9 | 2405.6 | 678.0 | 278.7 | 246.9 | 211.2 | 165.3 |
| 85° | 156.1 | 152.8 | 284.1 | 561.2 | 1107.5 | 1089.7 | 263.4 | 158.2 | 161.5 | 125.9 | 81.2 |
| 87.5° | 43.1 | 44.7 | 96.5 | 175.6 | 339.2 | 314.4 | 66.3 | 53.4 | 65.4 | 51.4 | 25.7 |
| 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° | 523.5 | 523.5 | 523.5 | 523.5 | 523.5 | 523.5 | 523.5 | 523.5 | 523.5 | 523.5 | 523.5 |
| 2.5° | 629.1 | 633.3 | 592.3 | 606.8 | 625.4 | 635.4 | 640.3 | 619.2 | 626.2 | 656.1 | 654.8 |
| 5° | 807.2 | 790.7 | 774.9 | 791.1 | 780.3 | 765.0 | 789.8 | 788.6 | 804.7 | 820.9 | 824.6 |
| 7.5° | 940.2 | 918.6 | 911.2 | 874.7 | 838.3 | 801.4 | 833.3 | 853.2 | 857.4 | 897.5 | 914.5 |
| 10° | 988.2 | 979.9 | 982.8 | 934.8 | 930.2 | 934.0 | 904.6 | 872.7 | 892.1 | 875.6 | 888.0 |
| 12.5° | 1099.2 | 1119.9 | 1068.6 | 1035.9 | 1033.0 | 1010.2 | 951.4 | 930.7 | 908.7 | 931.5 | 919.9 |
| 15° | 1188.3 | 1226.8 | 1171.7 | 1114.1 | 1049.1 | 1013.9 | 963.8 | 932.3 | 917.8 | 922.8 | 908.7 |
| 17.5° | 1318.7 | 1354.8 | 1214.8 | 1126.6 | 1059.5 | 1007.7 | 931.1 | 864.0 | 899.6 | 902.5 | 886.3 |
| 20° | 1405.3 | 1407.8 | 1229.3 | 1095.9 | 1035.4 | 945.6 | 871.0 | 812.2 | 853.2 | 895.0 | 913.3 |
| 22.5° | 1489.8 | 1471.2 | 1247.1 | 1071.5 | 948.1 | 861.1 | 824.6 | 820.9 | 851.6 | 886.8 | 890.9 |
| 25° | 1553.2 | 1556.1 | 1257.4 | 1062.4 | 896.7 | 778.2 | 778.2 | 805.2 | 832.1 | 915.7 | 911.6 |
| 27.5° | 1706.8 | 1593.8 | 1217.3 | 1020.5 | 825.5 | 729.8 | 778.7 | 814.7 | 827.5 | 918.2 | 927.3 |
| 30° | 1818.7 | 1744.9 | 1225.6 | 948.9 | 753.4 | 707.0 | 747.2 | 792.3 | 827.9 | 932.7 | 929.4 |
| 32.5° | 2006.3 | 1807.9 | 1245.0 | 848.2 | 699.5 | 698.3 | 733.9 | 781.6 | 824.2 | 917.0 | 922.0 |
| 35° | 2213.8 | 1993.4 | 1190.8 | 771.6 | 686.7 | 693.3 | 739.3 | 758.4 | 808.5 | 910.8 | 915.3 |
| 37.5° | 2597.7 | 2090.4 | 1156.4 | 712.4 | 678.4 | 697.5 | 714.9 | 744.3 | 794.8 | 879.7 | 909.5 |
| 40° | 2823.0 | 2290.0 | 1028.8 | 678.0 | 661.0 | 694.2 | 702.9 | 727.7 | 755.0 | 842.4 | 861.5 |
| 42.5° | 3119.6 | 2353.0 | 919.9 | 639.9 | 652.3 | 680.5 | 706.6 | 712.8 | 731.0 | 783.6 | 818.4 |
| 45° | 3366.9 | 2400.2 | 804.3 | 609.3 | 622.9 | 710.7 | 712.4 | 709.5 | 706.2 | 725.6 | 754.2 |
| 47.5° | 3622.8 | 2526.9 | 697.9 | 575.3 | 611.7 | 735.6 | 715.3 | 688.8 | 675.1 | 677.6 | 704.1 |
| 50° | 3905.3 | 2618.9 | 622.5 | 547.5 | 614.2 | 735.6 | 729.4 | 667.7 | 640.3 | 633.3 | 661.0 |
| 52.5° | 4153.8 | 2629.6 | 565.4 | 525.2 | 603.9 | 710.3 | 738.9 | 654.4 | 608.4 | 591.4 | 617.5 |
| 55° | 4289.2 | 2493.4 | 523.9 | 504.9 | 577.4 | 687.5 | 733.9 | 646.9 | 569.9 | 557.1 | 580.3 |
| 57.5° | 4286.3 | 2267.2 | 488.7 | 476.7 | 547.1 | 655.6 | 706.2 | 606.4 | 546.3 | 538.8 | 561.6 |
| 60° | 4131.8 | 2002.1 | 461.8 | 453.5 | 516.1 | 609.3 | 656.5 | 579.9 | 523.5 | 519.8 | 544.6 |
| 62.5° | 3781.5 | 1728.4 | 435.7 | 429.1 | 487.1 | 576.5 | 632.9 | 550.4 | 499.9 | 499.5 | 523.1 |
| 65° | 3096.8 | 1387.5 | 411.3 | 409.6 | 460.2 | 544.2 | 610.5 | 525.6 | 475.5 | 483.8 | 507.8 |
| 67.5° | 2133.8 | 975.0 | 385.2 | 390.2 | 435.3 | 513.2 | 593.5 | 509.0 | 449.8 | 466.8 | 488.3 |
| 70° | 1170.9 | 603.0 | 356.2 | 366.1 | 403.8 | 477.1 | 567.0 | 482.1 | 416.2 | 442.3 | 457.3 |
| 72.5° | 595.6 | 402.2 | 320.2 | 335.9 | 365.3 | 424.1 | 517.3 | 443.2 | 380.2 | 390.2 | 398.0 |
| 75° | 400.1 | 302.8 | 280.0 | 297.4 | 318.5 | 373.6 | 458.9 | 406.7 | 345.8 | 344.6 | 353.3 |
| 77.5° | 302.4 | 236.5 | 237.7 | 257.6 | 271.3 | 328.4 | 412.5 | 376.1 | 316.8 | 313.9 | 326.8 |
| 80° | 221.2 | 179.3 | 191.4 | 212.1 | 224.5 | 294.9 | 382.3 | 342.1 | 277.5 | 265.9 | 276.7 |
| 82.5° | 146.6 | 127.2 | 141.6 | 162.4 | 172.3 | 246.4 | 347.1 | 290.3 | 226.1 | 196.7 | 198.4 |
| 85° | 69.2 | 66.7 | 84.5 | 94.4 | 107.3 | 152.8 | 259.7 | 200.9 | 144.1 | 119.3 | 124.7 |
| 87.5° | 15.7 | 21.1 | 27.7 | 27.3 | 31.9 | 41.0 | 80.8 | 56.3 | 41.8 | 28.6 | 19.1 |
| 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)