

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: P367345

Luminaire Tested: **PMM-SA2B-750-U-T4W-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-15)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA2B-750-U-T4W-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7509 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

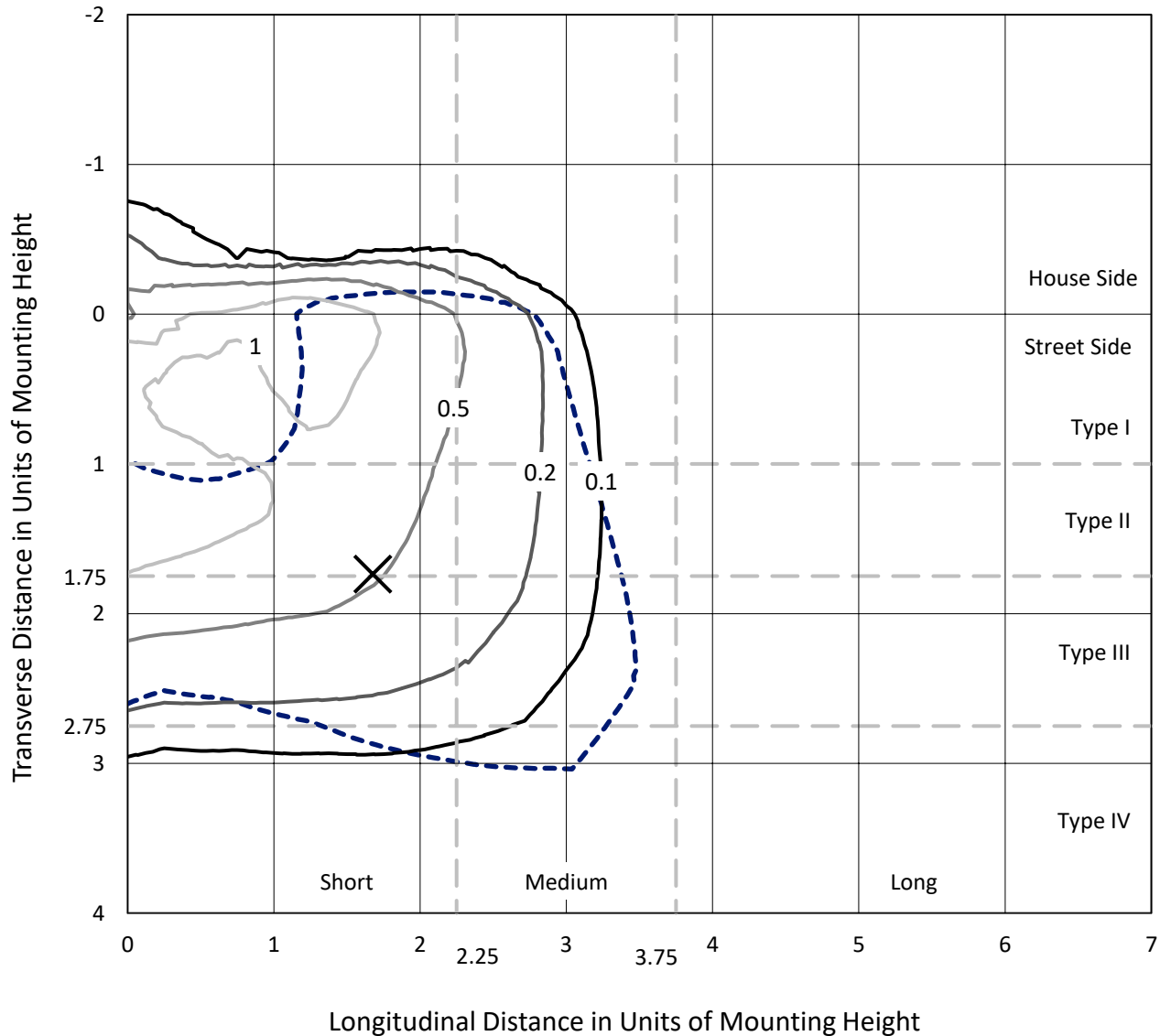
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

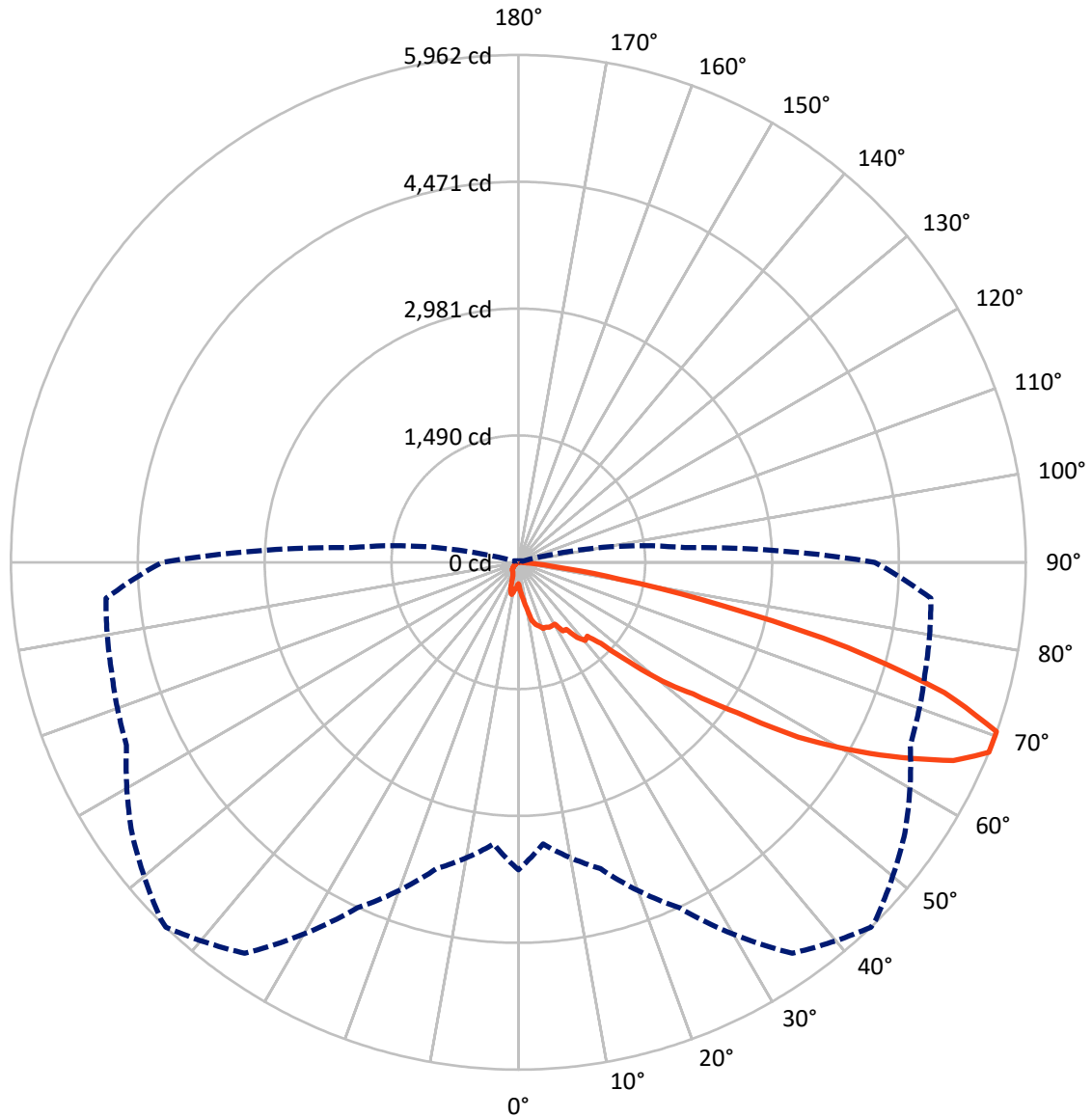
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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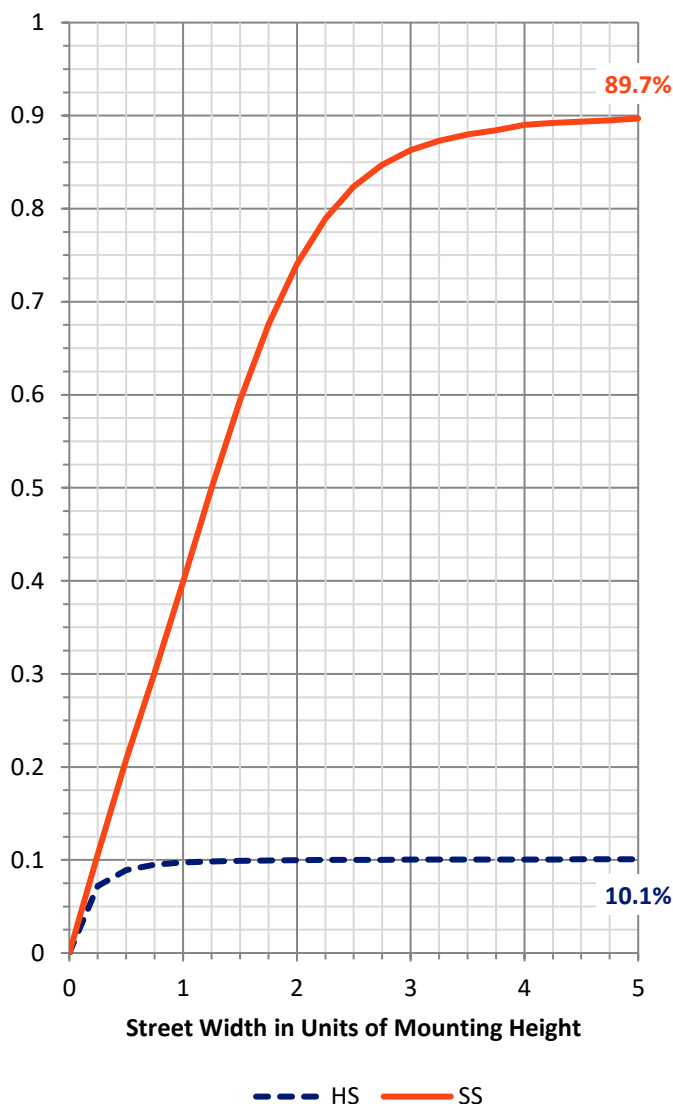
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 762.8 | 0.0 | 762.8 |
| | % Fixture | 10.2 | 0.0 | 10.2 |
| Street Side | Lumens | 6746.2 | 0.0 | 6746.2 |
| | % Fixture | 89.8 | 0.0 | 89.8 |
| Total | Lumens | 7509.0 | 0.0 | 7509.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 37.5 | 0.5 |
| 10°-20° | 157.0 | 2.1 |
| 20°-30° | 278.1 | 3.7 |
| 30°-40° | 452.0 | 6.0 |
| 40°-50° | 904.6 | 12.0 |
| 50°-60° | 1855.7 | 24.7 |
| 60°-70° | 2549.2 | 33.9 |
| 70°-80° | 1198.2 | 16.0 |
| 80°-90° | 76.7 | 1.0 |
| 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° | 7509.0 | 100.0 |
| 0°-180° | 7509.0 | 100.0 |

Coefficient of Utilization



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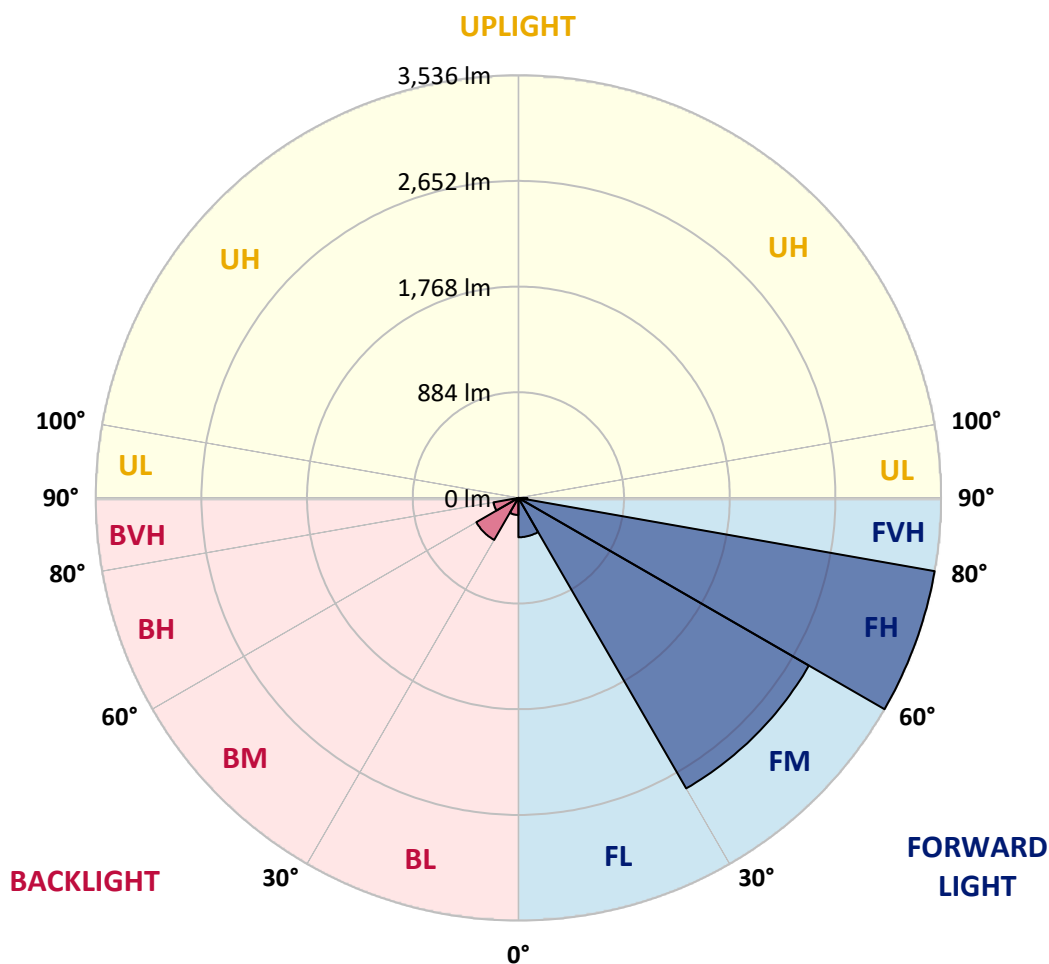
CATALOG NUMBER: PMM-SA2B-750-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 329.4 | 4.4 | | | |
| FM (30°-60°) | 2806.0 | 37.4 | | | |
| FH (60°-80°) | 3535.7 | 47.1 | | | G2/5000 |
| FVH (80°-90°) | 75.2 | 1.0 | | | G1/100 |
| BL (0°-30°) | 143.2 | 1.9 | B1/500 | | |
| BM (30°-60°) | 406.3 | 5.4 | B1/1000 | | |
| BH (60°-80°) | 211.7 | 2.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.6 | 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° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 253.0 | 253.0 | 253.0 | 253.0 | 253.0 | 253.0 | 253.0 | 253.0 | 253.0 | 253.0 | 253.0 |
| 2.5° | 321.7 | 311.4 | 296.5 | 299.8 | 301.4 | 306.0 | 306.4 | 300.6 | 284.0 | 279.5 | 299.8 |
| 5° | 450.9 | 425.7 | 421.1 | 411.6 | 392.5 | 382.2 | 379.7 | 390.0 | 376.8 | 372.7 | 378.0 |
| 7.5° | 576.0 | 554.4 | 530.8 | 518.0 | 478.2 | 453.8 | 452.6 | 456.7 | 459.2 | 444.7 | 452.2 |
| 10° | 659.2 | 635.6 | 630.6 | 600.4 | 566.0 | 560.2 | 557.7 | 542.0 | 529.2 | 518.4 | 482.4 |
| 12.5° | 734.5 | 734.1 | 743.2 | 699.8 | 694.4 | 700.2 | 698.1 | 641.8 | 629.0 | 583.8 | 573.5 |
| 15° | 834.8 | 859.6 | 820.3 | 783.8 | 737.4 | 757.3 | 751.9 | 715.9 | 707.2 | 676.6 | 632.3 |
| 17.5° | 938.7 | 945.3 | 879.5 | 823.6 | 811.6 | 785.5 | 790.9 | 778.0 | 734.1 | 758.6 | 714.7 |
| 20° | 941.2 | 955.7 | 885.3 | 792.9 | 829.8 | 828.5 | 829.0 | 816.5 | 758.6 | 815.7 | 775.5 |
| 22.5° | 975.9 | 940.3 | 874.9 | 816.1 | 822.7 | 829.0 | 835.6 | 820.3 | 807.8 | 821.9 | 829.4 |
| 25° | 961.9 | 947.8 | 884.9 | 845.9 | 839.7 | 844.7 | 846.3 | 865.8 | 857.9 | 891.9 | 873.3 |
| 27.5° | 998.3 | 978.0 | 865.4 | 872.4 | 850.5 | 844.7 | 834.8 | 899.8 | 922.9 | 896.0 | 945.7 |
| 30° | 1060.8 | 1057.9 | 898.9 | 909.3 | 892.3 | 841.4 | 867.9 | 952.8 | 981.7 | 965.2 | 1025.6 |
| 32.5° | 1158.6 | 1168.5 | 997.1 | 930.0 | 938.7 | 961.5 | 951.5 | 952.8 | 1026.1 | 1062.9 | 1110.9 |
| 35° | 1297.3 | 1291.9 | 1092.7 | 1008.7 | 963.1 | 966.8 | 980.9 | 1048.4 | 1143.2 | 1140.7 | 1191.7 |
| 37.5° | 1569.7 | 1510.9 | 1262.1 | 1089.0 | 1102.7 | 1121.3 | 1110.9 | 1201.6 | 1210.7 | 1214.0 | 1335.8 |
| 40° | 1971.4 | 1893.1 | 1529.1 | 1258.3 | 1126.7 | 1209.1 | 1204.1 | 1226.5 | 1287.3 | 1310.1 | 1487.7 |
| 42.5° | 2500.5 | 2395.4 | 1999.1 | 1569.7 | 1242.6 | 1185.9 | 1216.5 | 1258.8 | 1463.3 | 1528.3 | 1722.9 |
| 45° | 3085.2 | 2872.4 | 2467.8 | 2013.6 | 1533.3 | 1357.3 | 1380.5 | 1459.2 | 1742.8 | 1850.5 | 2065.4 |
| 47.5° | 3464.1 | 3276.9 | 2932.0 | 2407.0 | 1836.4 | 1744.0 | 1746.1 | 1763.1 | 2071.1 | 2270.7 | 2558.9 |
| 50° | 3793.2 | 3594.1 | 3274.0 | 2818.1 | 2372.6 | 2197.9 | 2158.1 | 2079.8 | 2489.4 | 2762.2 | 3081.9 |
| 52.5° | 4257.8 | 4025.1 | 3616.0 | 3300.5 | 2984.2 | 2572.6 | 2558.5 | 2585.0 | 2982.5 | 3269.4 | 3618.1 |
| 55° | 4676.9 | 4394.0 | 4003.6 | 3804.8 | 3681.4 | 3123.3 | 3135.3 | 3179.6 | 3615.6 | 3767.6 | 4095.1 |
| 57.5° | 4861.9 | 4555.5 | 4354.7 | 4265.3 | 4199.4 | 3875.6 | 3835.1 | 3808.6 | 4115.0 | 4172.9 | 4594.9 |
| 60° | 4983.3 | 4691.8 | 4600.7 | 4621.4 | 4820.9 | 4477.3 | 4440.4 | 4286.4 | 4528.2 | 4575.8 | 5042.9 |
| 62.5° | 4906.7 | 4640.8 | 4660.3 | 4833.0 | 5276.0 | 5049.9 | 4943.5 | 4686.0 | 4866.1 | 4904.6 | 5364.6 |
| 65° | 4424.3 | 4147.3 | 4397.4 | 4815.1 | 5623.0 | 5617.6 | 5568.3 | 5054.9 | 5053.2 | 5102.5 | 5389.5 |
| 67.5° | 3613.9 | 3323.3 | 3727.8 | 4481.4 | 5608.5 | 5961.7 | 5938.5 | 5544.3 | 5080.1 | 4948.5 | 4863.6 |
| 70° | 2512.5 | 2260.4 | 2719.2 | 3700.9 | 5108.7 | 5959.2 | 5921.9 | 5873.1 | 4867.3 | 4259.5 | 3770.9 |
| 72.5° | 1305.5 | 1166.8 | 1594.1 | 2550.2 | 4072.3 | 5235.8 | 5358.8 | 5278.5 | 4156.0 | 3094.7 | 2220.6 |
| 75° | 443.5 | 397.9 | 657.5 | 1353.6 | 2707.1 | 3998.2 | 4142.3 | 4060.7 | 2822.7 | 1660.4 | 878.2 |
| 77.5° | 171.8 | 159.8 | 235.6 | 549.5 | 1358.1 | 2436.4 | 2592.9 | 2509.6 | 1513.8 | 608.3 | 206.6 |
| 80° | 97.7 | 94.4 | 130.0 | 247.6 | 598.7 | 1212.0 | 1322.1 | 1199.1 | 545.7 | 205.0 | 53.8 |
| 82.5° | 41.4 | 42.6 | 72.5 | 133.7 | 301.0 | 427.7 | 477.0 | 435.2 | 228.6 | 140.4 | 19.9 |
| 85° | 9.1 | 11.2 | 34.4 | 74.5 | 126.3 | 122.1 | 127.9 | 142.0 | 140.4 | 103.1 | 8.7 |
| 87.5° | 0.0 | 0.0 | 10.8 | 20.3 | 30.2 | 19.9 | 15.7 | 27.7 | 43.1 | 41.4 | 3.7 |
| 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° | 253.0 | 253.0 | 253.0 | 253.0 | 253.0 | 253.0 | 253.0 | 253.0 | 253.0 | 253.0 | 253.0 |
| 2.5° | 303.5 | 299.4 | 273.3 | 271.6 | 273.3 | 268.7 | 268.3 | 258.8 | 259.6 | 281.1 | 282.8 |
| 5° | 378.0 | 357.3 | 335.0 | 327.9 | 321.3 | 306.4 | 314.7 | 314.7 | 314.7 | 328.4 | 332.5 |
| 7.5° | 445.5 | 417.8 | 386.3 | 359.8 | 334.1 | 315.5 | 328.4 | 337.5 | 342.8 | 360.6 | 368.9 |
| 10° | 476.2 | 448.8 | 420.7 | 383.0 | 363.1 | 356.1 | 341.2 | 333.3 | 342.8 | 339.1 | 343.7 |
| 12.5° | 541.6 | 516.8 | 468.3 | 429.4 | 414.5 | 390.5 | 346.6 | 315.9 | 295.6 | 292.3 | 291.5 |
| 15° | 605.4 | 590.0 | 525.0 | 472.9 | 421.1 | 365.6 | 290.7 | 250.1 | 228.6 | 224.8 | 225.3 |
| 17.5° | 686.1 | 664.2 | 568.5 | 493.6 | 405.8 | 306.0 | 224.4 | 189.6 | 188.0 | 197.1 | 197.9 |
| 20° | 739.9 | 703.9 | 590.5 | 476.6 | 355.3 | 231.5 | 175.6 | 167.3 | 180.5 | 197.1 | 195.4 |
| 22.5° | 791.3 | 752.4 | 619.4 | 461.7 | 275.4 | 175.6 | 161.5 | 162.3 | 173.5 | 191.3 | 195.9 |
| 25° | 825.2 | 811.2 | 655.0 | 426.9 | 209.9 | 152.0 | 154.4 | 160.7 | 170.2 | 187.2 | 187.2 |
| 27.5° | 927.5 | 861.7 | 650.9 | 359.4 | 161.5 | 141.6 | 147.4 | 155.3 | 160.2 | 180.5 | 182.6 |
| 30° | 989.6 | 968.1 | 672.4 | 290.7 | 141.6 | 128.4 | 139.5 | 146.6 | 149.9 | 173.1 | 173.9 |
| 32.5° | 1065.8 | 1018.2 | 698.5 | 214.5 | 131.7 | 127.5 | 125.0 | 130.4 | 140.0 | 160.2 | 161.5 |
| 35° | 1158.6 | 1144.5 | 661.3 | 168.5 | 128.4 | 119.3 | 114.3 | 117.2 | 123.4 | 137.1 | 140.0 |
| 37.5° | 1347.8 | 1264.1 | 638.9 | 144.5 | 128.4 | 116.4 | 111.0 | 103.5 | 104.3 | 113.9 | 119.3 |
| 40° | 1507.2 | 1481.5 | 576.4 | 140.4 | 122.6 | 112.2 | 99.0 | 89.9 | 83.6 | 86.5 | 88.6 |
| 42.5° | 1799.9 | 1681.1 | 495.6 | 138.3 | 117.2 | 101.4 | 84.1 | 74.5 | 65.0 | 65.8 | 69.1 |
| 45° | 2155.2 | 1898.9 | 423.6 | 136.2 | 113.5 | 90.7 | 70.8 | 59.6 | 49.7 | 50.1 | 53.4 |
| 47.5° | 2629.7 | 2216.5 | 336.2 | 130.0 | 106.8 | 80.7 | 57.1 | 45.5 | 39.8 | 41.0 | 43.9 |
| 50° | 3168.8 | 2495.1 | 265.8 | 120.5 | 99.0 | 71.2 | 46.4 | 36.9 | 34.8 | 36.0 | 39.3 |
| 52.5° | 3650.4 | 2700.5 | 219.5 | 111.8 | 87.8 | 58.0 | 38.9 | 32.7 | 31.9 | 32.7 | 35.2 |
| 55° | 4078.5 | 2819.8 | 183.4 | 101.9 | 75.4 | 46.8 | 35.2 | 30.2 | 29.8 | 29.4 | 31.1 |
| 57.5° | 4480.2 | 2854.1 | 143.3 | 86.1 | 61.3 | 40.6 | 32.7 | 28.2 | 27.3 | 26.1 | 27.3 |
| 60° | 4772.9 | 2795.3 | 105.2 | 69.1 | 50.1 | 36.9 | 30.6 | 25.3 | 24.0 | 21.9 | 22.8 |
| 62.5° | 4914.1 | 2634.3 | 79.5 | 55.5 | 42.6 | 33.5 | 27.3 | 21.9 | 20.3 | 17.8 | 18.2 |
| 65° | 4780.0 | 2368.9 | 62.5 | 46.8 | 36.4 | 28.2 | 23.2 | 18.6 | 16.6 | 14.1 | 14.1 |
| 67.5° | 4185.8 | 1965.1 | 53.0 | 40.6 | 30.6 | 24.0 | 19.0 | 17.0 | 13.7 | 11.6 | 11.2 |
| 70° | 3072.4 | 1413.6 | 45.5 | 35.6 | 26.5 | 20.7 | 16.1 | 15.3 | 13.3 | 11.2 | 10.4 |
| 72.5° | 1734.1 | 800.0 | 38.9 | 31.5 | 22.4 | 17.4 | 13.7 | 14.1 | 12.8 | 10.4 | 9.5 |
| 75° | 661.7 | 269.6 | 32.3 | 26.1 | 18.2 | 13.3 | 11.6 | 11.6 | 11.6 | 8.7 | 7.5 |
| 77.5° | 164.0 | 68.7 | 25.7 | 21.1 | 14.5 | 8.7 | 9.5 | 9.9 | 9.9 | 7.5 | 5.4 |
| 80° | 45.1 | 23.2 | 15.3 | 15.3 | 10.4 | 5.0 | 6.6 | 6.6 | 5.4 | 2.5 | 0.0 |
| 82.5° | 16.6 | 8.7 | 5.4 | 6.6 | 4.6 | 1.7 | 2.5 | 1.7 | 1.2 | 0.0 | 0.0 |
| 85° | 7.0 | 4.6 | 3.3 | 3.7 | 2.1 | 0.0 | 0.4 | 0.8 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.9 | 2.1 | 1.7 | 1.7 | 0.8 | 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)