

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: P598344

Luminaire Tested: **PMM-SA2A-835-U-T4W**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-14)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA2A-835-U-T4W
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6644 lumens
Efficiency: N/A
Efficacy: 100.7 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): 66
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

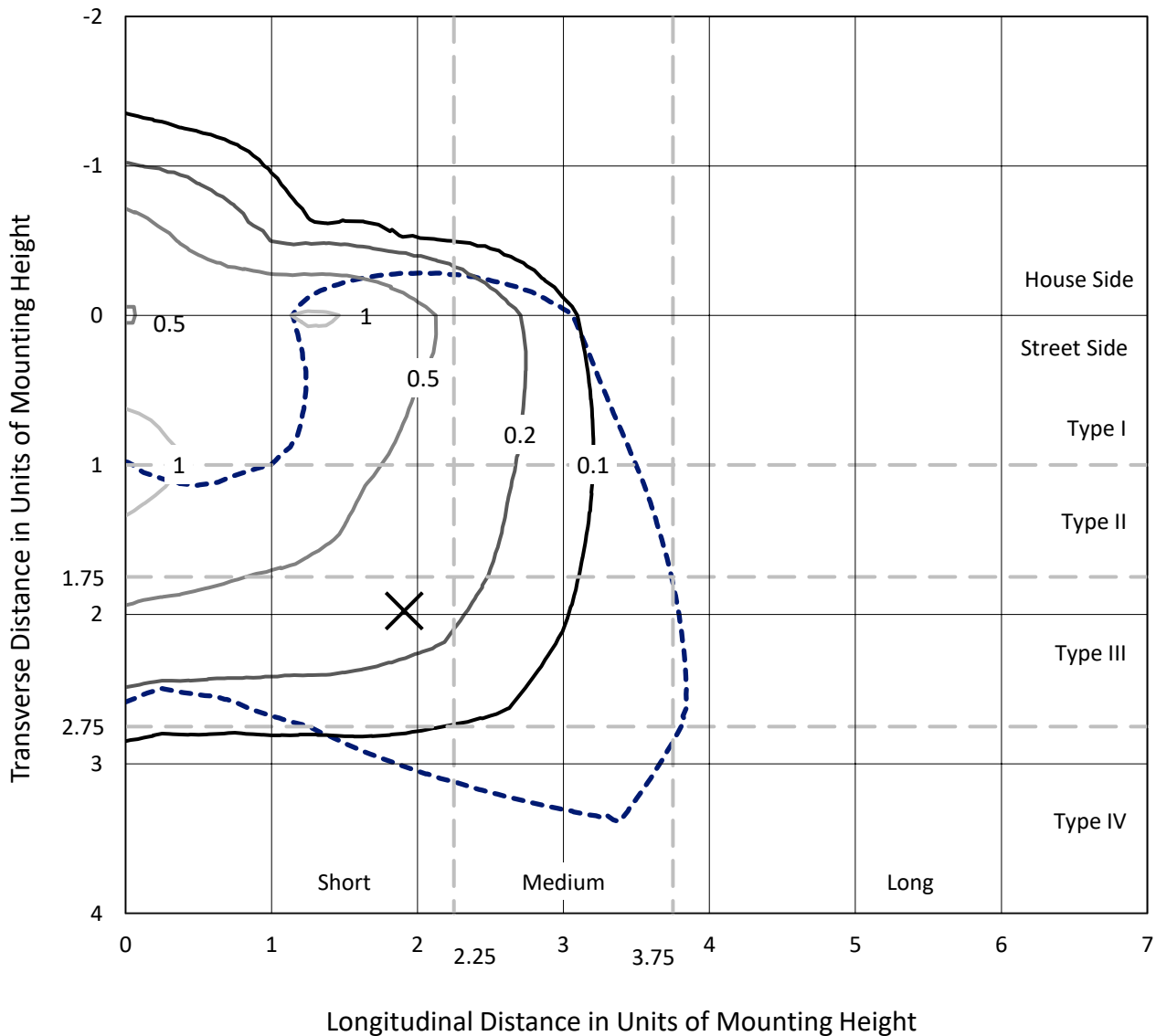


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Iso-Footcandle Lines of Horizontal Illumination

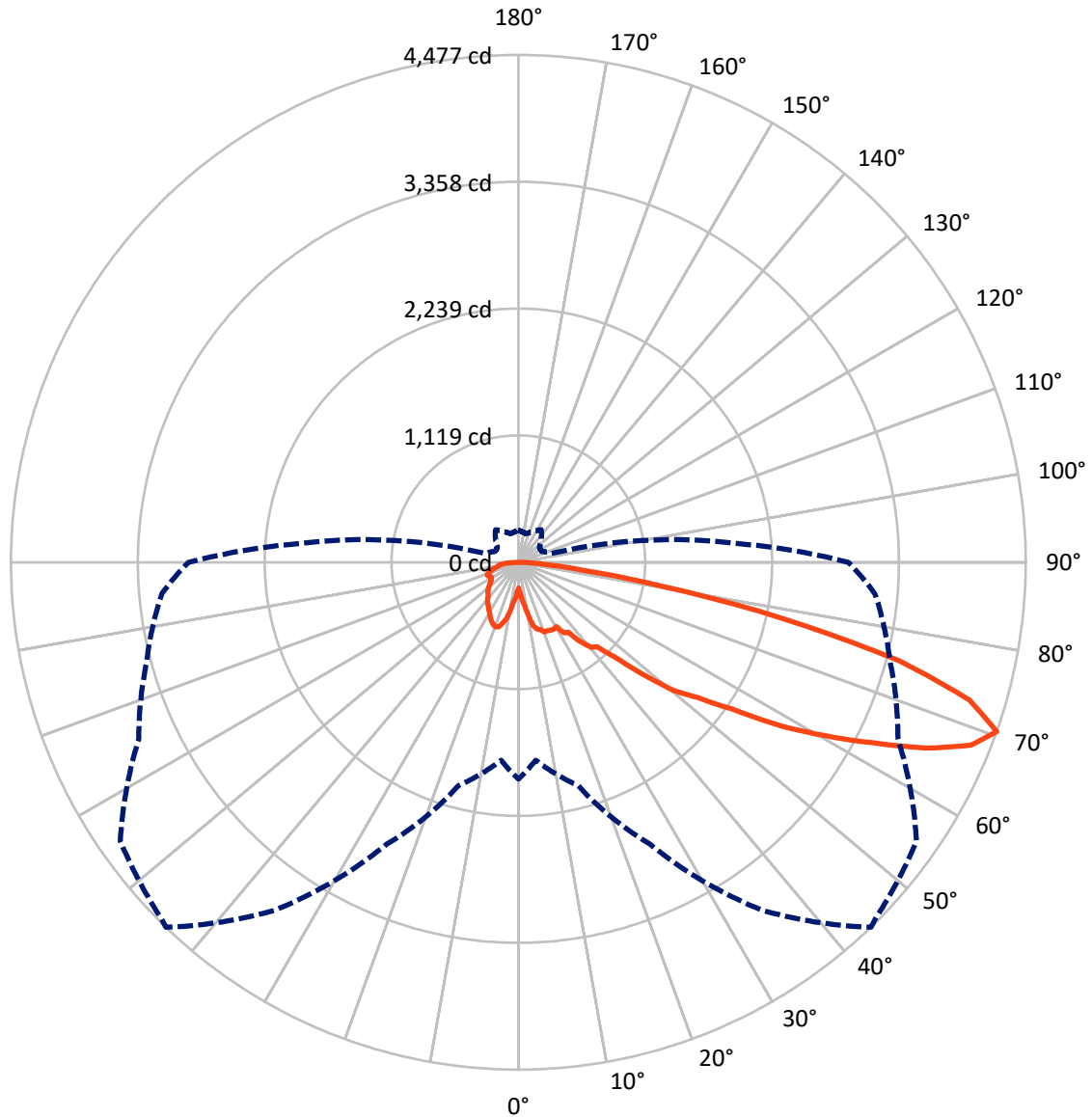
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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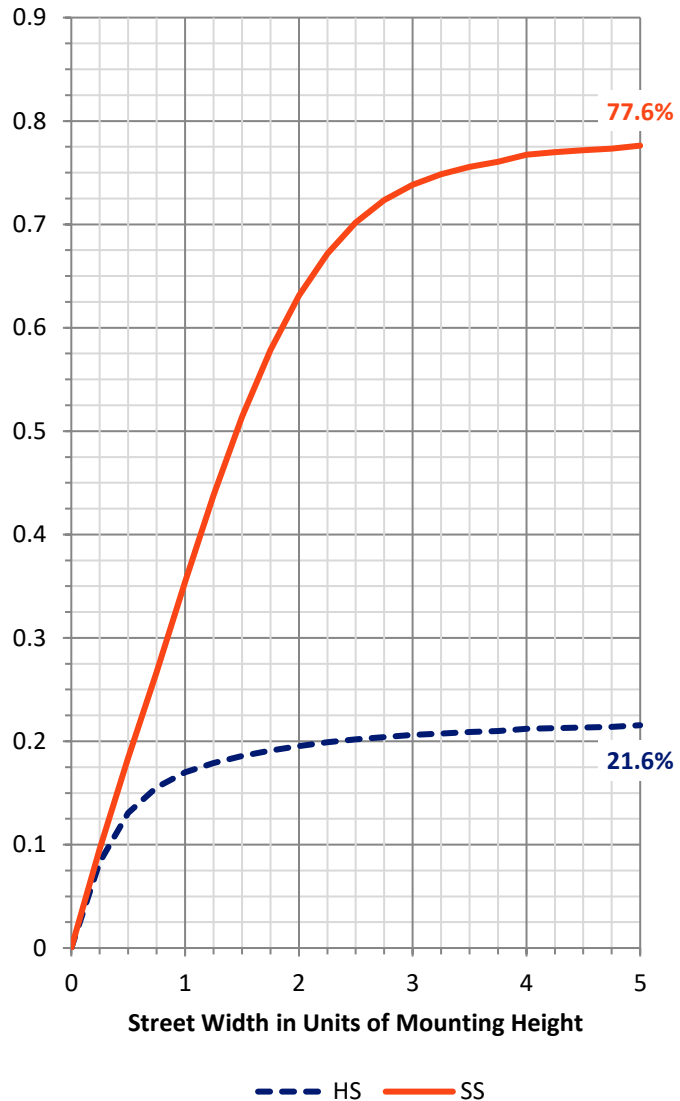
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1465.9 | 0.0 | 1465.9 |
| | % Fixture | 22.1 | 0.0 | 22.1 |
| Street Side | Lumens | 5178.1 | 0.0 | 5178.1 |
| | % Fixture | 77.9 | 0.0 | 77.9 |
| Total | Lumens | 6644.0 | 0.0 | 6644.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 35.4 | 0.5 |
| 10°-20° | 163.1 | 2.5 |
| 20°-30° | 304.7 | 4.6 |
| 30°-40° | 489.1 | 7.4 |
| 40°-50° | 825.6 | 12.4 |
| 50°-60° | 1471.1 | 22.1 |
| 60°-70° | 2012.3 | 30.3 |
| 70°-80° | 1183.4 | 17.8 |
| 80°-90° | 159.3 | 2.4 |
| 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° | 6644.0 | 100.0 |
| 0°-180° | 6644.0 | 100.0 |

Coefficient of Utilization



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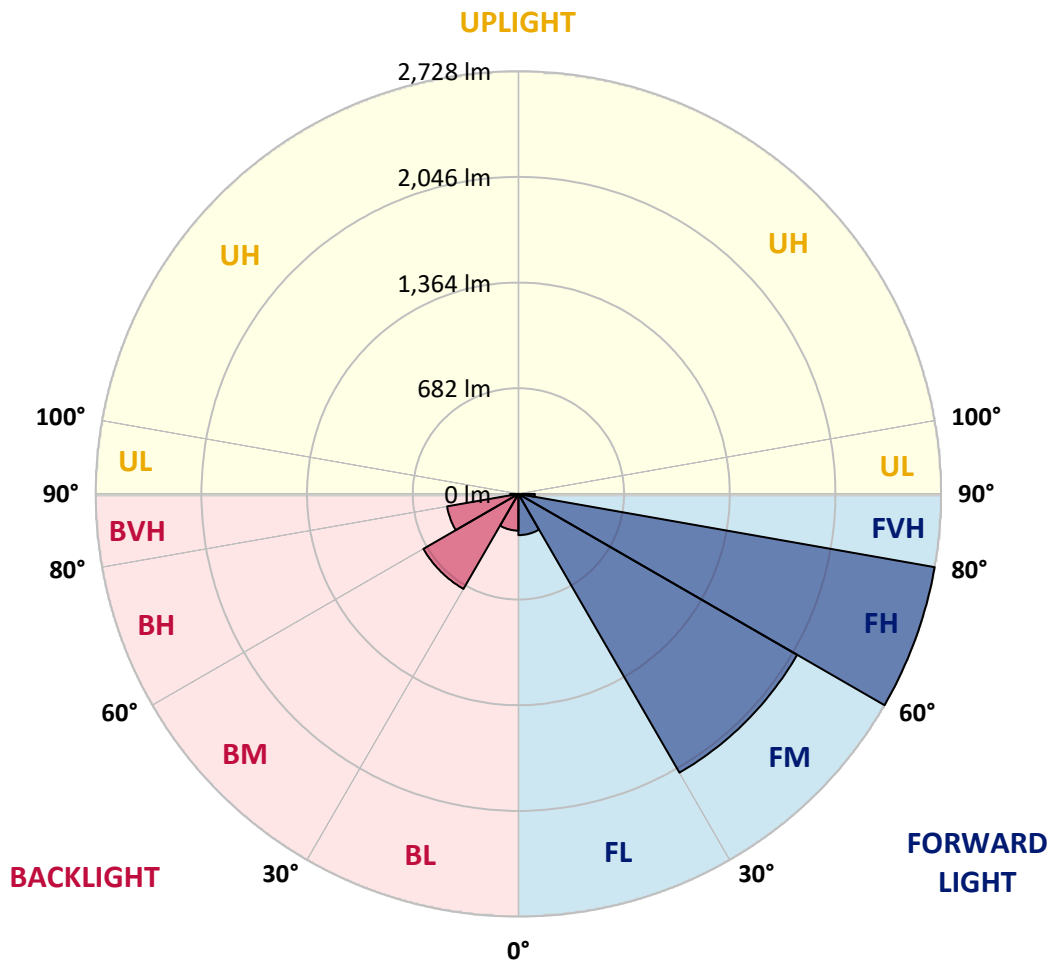
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 266.3 | 4.0 | | | |
| FM (30°-60°) | 2077.4 | 31.3 | | | |
| FH (60°-80°) | 2728.2 | 41.1 | | | G2/5000 |
| FVH (80°-90°) | 106.2 | 1.6 | | | G2/225 |
| BL (0°-30°) | 236.9 | 3.6 | B1/500 | | |
| BM (30°-60°) | 708.4 | 10.7 | B1/1000 | | |
| BH (60°-80°) | 467.5 | 7.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 53.1 | 0.8 | | | 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° | 225.8 | 225.8 | 225.8 | 225.8 | 225.8 | 225.8 | 225.8 | 225.8 | 225.8 | 225.8 | 225.8 |
| 2.5° | 274.1 | 268.6 | 255.5 | 259.9 | 265.3 | 267.5 | 267.0 | 266.4 | 258.0 | 255.0 | 270.0 |
| 5° | 372.4 | 360.4 | 350.9 | 347.1 | 334.5 | 324.7 | 318.7 | 334.5 | 332.1 | 336.2 | 346.5 |
| 7.5° | 465.0 | 457.4 | 435.9 | 428.2 | 402.6 | 385.8 | 383.8 | 396.4 | 399.6 | 393.1 | 410.8 |
| 10° | 524.7 | 511.6 | 507.3 | 489.0 | 471.3 | 468.6 | 466.9 | 461.2 | 453.3 | 452.8 | 437.0 |
| 12.5° | 571.0 | 577.8 | 581.3 | 560.4 | 560.9 | 570.7 | 565.5 | 542.4 | 529.0 | 505.6 | 507.5 |
| 15° | 654.1 | 663.9 | 635.8 | 622.5 | 596.9 | 611.6 | 609.7 | 590.3 | 588.4 | 573.2 | 555.5 |
| 17.5° | 726.6 | 730.9 | 684.1 | 653.5 | 644.8 | 623.6 | 629.3 | 629.8 | 604.8 | 632.0 | 616.2 |
| 20° | 732.5 | 748.1 | 694.1 | 633.4 | 659.5 | 656.8 | 657.6 | 652.2 | 619.2 | 664.2 | 658.2 |
| 22.5° | 762.0 | 738.3 | 689.8 | 645.4 | 652.2 | 656.3 | 660.1 | 653.5 | 651.6 | 676.7 | 695.0 |
| 25° | 756.5 | 748.9 | 699.9 | 662.3 | 663.1 | 663.9 | 665.8 | 685.4 | 683.2 | 717.3 | 726.8 |
| 27.5° | 807.5 | 795.7 | 702.9 | 693.6 | 672.3 | 667.7 | 654.6 | 695.5 | 727.4 | 726.6 | 779.1 |
| 30° | 904.4 | 892.5 | 772.6 | 745.6 | 707.2 | 659.8 | 684.9 | 739.4 | 764.4 | 772.9 | 839.6 |
| 32.5° | 1055.9 | 1075.5 | 909.9 | 801.2 | 753.5 | 743.2 | 740.4 | 735.0 | 797.1 | 838.8 | 899.5 |
| 35° | 1273.3 | 1257.8 | 1071.7 | 920.2 | 802.3 | 757.9 | 763.9 | 797.1 | 870.9 | 897.9 | 954.0 |
| 37.5° | 1522.3 | 1490.2 | 1279.0 | 1055.1 | 942.9 | 887.3 | 867.4 | 899.5 | 915.9 | 937.1 | 1051.8 |
| 40° | 1775.4 | 1696.9 | 1482.5 | 1232.4 | 1027.3 | 985.4 | 967.9 | 928.4 | 966.8 | 1009.9 | 1155.6 |
| 42.5° | 2019.7 | 1959.0 | 1704.0 | 1444.1 | 1169.5 | 1020.0 | 1010.4 | 971.7 | 1090.8 | 1136.3 | 1305.4 |
| 45° | 2275.8 | 2135.0 | 1930.9 | 1683.0 | 1377.4 | 1189.7 | 1175.5 | 1106.0 | 1258.6 | 1353.4 | 1516.8 |
| 47.5° | 2448.0 | 2317.5 | 2138.8 | 1877.0 | 1551.4 | 1473.5 | 1446.6 | 1327.8 | 1466.2 | 1589.3 | 1843.5 |
| 50° | 2610.9 | 2476.6 | 2288.9 | 2089.2 | 1866.6 | 1777.0 | 1719.5 | 1521.8 | 1724.7 | 1925.2 | 2262.2 |
| 52.5° | 2844.1 | 2724.0 | 2463.2 | 2303.1 | 2205.3 | 1984.9 | 1942.1 | 1833.4 | 2027.1 | 2297.6 | 2719.9 |
| 55° | 3093.4 | 2929.6 | 2693.4 | 2604.6 | 2565.1 | 2282.9 | 2248.0 | 2178.8 | 2429.7 | 2678.7 | 3164.7 |
| 57.5° | 3203.4 | 3032.6 | 2902.4 | 2849.3 | 2846.0 | 2716.1 | 2676.0 | 2627.8 | 2841.4 | 3005.6 | 3583.4 |
| 60° | 3290.9 | 3107.5 | 3055.5 | 3085.2 | 3193.1 | 3107.5 | 3055.5 | 3013.0 | 3176.4 | 3328.7 | 3925.1 |
| 62.5° | 3274.8 | 3090.9 | 3117.6 | 3208.0 | 3483.5 | 3508.5 | 3468.5 | 3365.5 | 3508.5 | 3593.5 | 4120.9 |
| 65° | 3015.4 | 2845.5 | 3001.0 | 3215.7 | 3753.4 | 3953.7 | 3951.5 | 3682.1 | 3731.6 | 3731.6 | 4100.2 |
| 67.5° | 2561.0 | 2385.1 | 2639.8 | 3148.4 | 3940.0 | 4306.5 | 4307.0 | 4017.7 | 3752.1 | 3717.8 | 3779.9 |
| 70° | 1912.4 | 1753.0 | 2039.4 | 2741.9 | 3747.4 | 4477.3 | 4452.5 | 4288.5 | 3696.0 | 3396.0 | 3157.4 |
| 72.5° | 1142.3 | 1039.3 | 1302.7 | 1996.0 | 3196.6 | 4163.2 | 4229.1 | 3976.6 | 3383.5 | 2824.2 | 2257.0 |
| 75° | 518.7 | 474.0 | 612.1 | 1146.6 | 2282.1 | 3472.6 | 3544.2 | 3356.0 | 2687.4 | 2031.2 | 1304.4 |
| 77.5° | 222.0 | 210.0 | 267.2 | 508.6 | 1258.3 | 2374.7 | 2521.5 | 2398.4 | 1820.9 | 1180.4 | 577.0 |
| 80° | 142.7 | 135.1 | 164.3 | 244.6 | 584.3 | 1283.1 | 1409.5 | 1363.5 | 927.6 | 459.0 | 203.2 |
| 82.5° | 85.3 | 82.8 | 109.8 | 153.6 | 318.7 | 564.7 | 636.4 | 653.3 | 385.2 | 206.0 | 116.3 |
| 85° | 46.6 | 47.1 | 60.2 | 93.2 | 191.2 | 219.8 | 235.4 | 256.1 | 181.4 | 119.3 | 56.4 |
| 87.5° | 15.5 | 18.0 | 24.2 | 37.9 | 68.1 | 62.1 | 62.4 | 72.5 | 76.6 | 49.6 | 18.0 |
| 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° | 225.8 | 225.8 | 225.8 | 225.8 | 225.8 | 225.8 | 225.8 | 225.8 | 225.8 | 225.8 | 225.8 |
| 2.5° | 272.4 | 267.5 | 255.0 | 255.8 | 260.4 | 261.5 | 262.9 | 255.0 | 253.4 | 268.3 | 269.7 |
| 5° | 348.2 | 332.1 | 324.7 | 322.3 | 315.2 | 312.7 | 325.8 | 331.8 | 337.8 | 349.5 | 355.2 |
| 7.5° | 408.9 | 390.9 | 377.6 | 365.3 | 355.0 | 349.0 | 371.0 | 387.9 | 398.3 | 422.3 | 433.2 |
| 10° | 436.7 | 421.2 | 416.3 | 406.5 | 414.4 | 432.3 | 436.4 | 437.0 | 459.8 | 459.3 | 463.9 |
| 12.5° | 492.0 | 481.9 | 465.8 | 469.4 | 490.1 | 508.6 | 503.4 | 511.3 | 519.5 | 539.1 | 530.1 |
| 15° | 542.4 | 539.7 | 524.7 | 527.1 | 531.2 | 554.4 | 557.4 | 565.3 | 577.8 | 593.3 | 582.7 |
| 17.5° | 604.5 | 603.4 | 566.9 | 563.6 | 573.2 | 595.8 | 588.7 | 574.8 | 616.2 | 632.8 | 628.5 |
| 20° | 646.7 | 638.6 | 591.7 | 577.8 | 602.1 | 605.1 | 596.9 | 574.8 | 610.8 | 647.0 | 656.8 |
| 22.5° | 681.9 | 672.3 | 624.1 | 596.9 | 592.0 | 593.3 | 593.3 | 589.3 | 607.0 | 636.7 | 636.4 |
| 25° | 710.2 | 719.2 | 657.9 | 631.7 | 605.6 | 572.9 | 568.8 | 572.4 | 582.4 | 639.6 | 637.7 |
| 27.5° | 781.3 | 756.5 | 669.3 | 649.7 | 596.1 | 544.6 | 555.7 | 561.2 | 564.5 | 627.1 | 637.5 |
| 30° | 827.6 | 835.2 | 710.2 | 660.4 | 582.2 | 513.0 | 516.8 | 532.6 | 551.7 | 625.8 | 628.8 |
| 32.5° | 890.0 | 873.7 | 774.0 | 642.6 | 545.1 | 493.9 | 486.8 | 508.1 | 536.4 | 603.7 | 611.9 |
| 35° | 948.0 | 967.4 | 800.9 | 639.4 | 519.2 | 465.3 | 472.9 | 480.3 | 509.7 | 579.2 | 588.7 |
| 37.5° | 1084.2 | 1040.1 | 876.7 | 623.6 | 497.7 | 450.9 | 442.7 | 453.9 | 478.9 | 532.6 | 554.7 |
| 40° | 1187.8 | 1190.5 | 893.0 | 603.7 | 456.6 | 430.2 | 412.7 | 423.9 | 434.5 | 477.3 | 486.8 |
| 42.5° | 1382.0 | 1322.6 | 933.0 | 560.1 | 430.7 | 399.1 | 389.3 | 394.2 | 395.8 | 413.8 | 429.6 |
| 45° | 1629.1 | 1489.9 | 948.8 | 501.5 | 396.6 | 386.3 | 366.4 | 364.0 | 355.0 | 357.4 | 371.3 |
| 47.5° | 1971.0 | 1750.9 | 937.4 | 439.1 | 366.4 | 369.7 | 341.1 | 329.9 | 317.4 | 320.4 | 333.4 |
| 50° | 2413.1 | 2084.3 | 936.6 | 386.3 | 345.7 | 347.9 | 324.5 | 304.3 | 291.8 | 298.0 | 309.5 |
| 52.5° | 2909.2 | 2418.8 | 940.4 | 350.1 | 323.1 | 322.0 | 313.6 | 289.0 | 279.0 | 285.5 | 298.6 |
| 55° | 3383.8 | 2706.5 | 968.7 | 327.2 | 299.7 | 301.6 | 304.8 | 284.1 | 273.0 | 279.0 | 292.6 |
| 57.5° | 3796.8 | 2933.7 | 958.1 | 302.9 | 277.9 | 286.6 | 295.3 | 277.3 | 268.9 | 277.6 | 291.2 |
| 60° | 4085.5 | 3039.1 | 874.2 | 279.8 | 261.8 | 273.8 | 290.7 | 276.5 | 275.4 | 294.2 | 310.6 |
| 62.5° | 4190.9 | 3000.2 | 710.8 | 261.5 | 252.3 | 272.2 | 301.3 | 294.5 | 295.6 | 318.7 | 341.3 |
| 65° | 4037.0 | 2795.3 | 530.1 | 249.8 | 244.9 | 280.1 | 325.8 | 305.1 | 290.1 | 309.2 | 329.9 |
| 67.5° | 3599.2 | 2431.1 | 387.4 | 239.7 | 236.5 | 292.6 | 348.4 | 304.0 | 276.2 | 295.6 | 312.5 |
| 70° | 2911.9 | 1918.9 | 299.9 | 226.9 | 225.3 | 284.1 | 350.6 | 295.9 | 261.3 | 273.8 | 283.3 |
| 72.5° | 1995.2 | 1313.9 | 248.4 | 214.7 | 206.0 | 251.7 | 332.9 | 277.6 | 243.3 | 250.6 | 258.5 |
| 75° | 1115.0 | 737.4 | 208.9 | 199.4 | 180.3 | 224.2 | 312.2 | 266.7 | 229.9 | 232.1 | 243.0 |
| 77.5° | 500.4 | 319.0 | 177.3 | 179.3 | 157.2 | 198.3 | 285.2 | 249.3 | 209.5 | 204.6 | 215.5 |
| 80° | 189.3 | 155.6 | 143.8 | 151.5 | 132.1 | 171.9 | 257.2 | 233.5 | 188.0 | 181.7 | 188.0 |
| 82.5° | 109.8 | 94.3 | 106.8 | 116.6 | 104.9 | 158.0 | 245.5 | 219.0 | 165.6 | 149.8 | 155.3 |
| 85° | 50.9 | 48.8 | 64.0 | 75.7 | 73.3 | 123.1 | 210.0 | 164.8 | 118.0 | 99.7 | 110.3 |
| 87.5° | 13.3 | 15.0 | 22.6 | 26.7 | 27.2 | 42.2 | 80.9 | 61.3 | 46.0 | 34.9 | 33.5 |
| 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)