

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: P598080

Luminaire Tested: **PMM-SA3A-827-U-T4W**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598080
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-SA3A-827-U-T4W
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8743 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 96
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

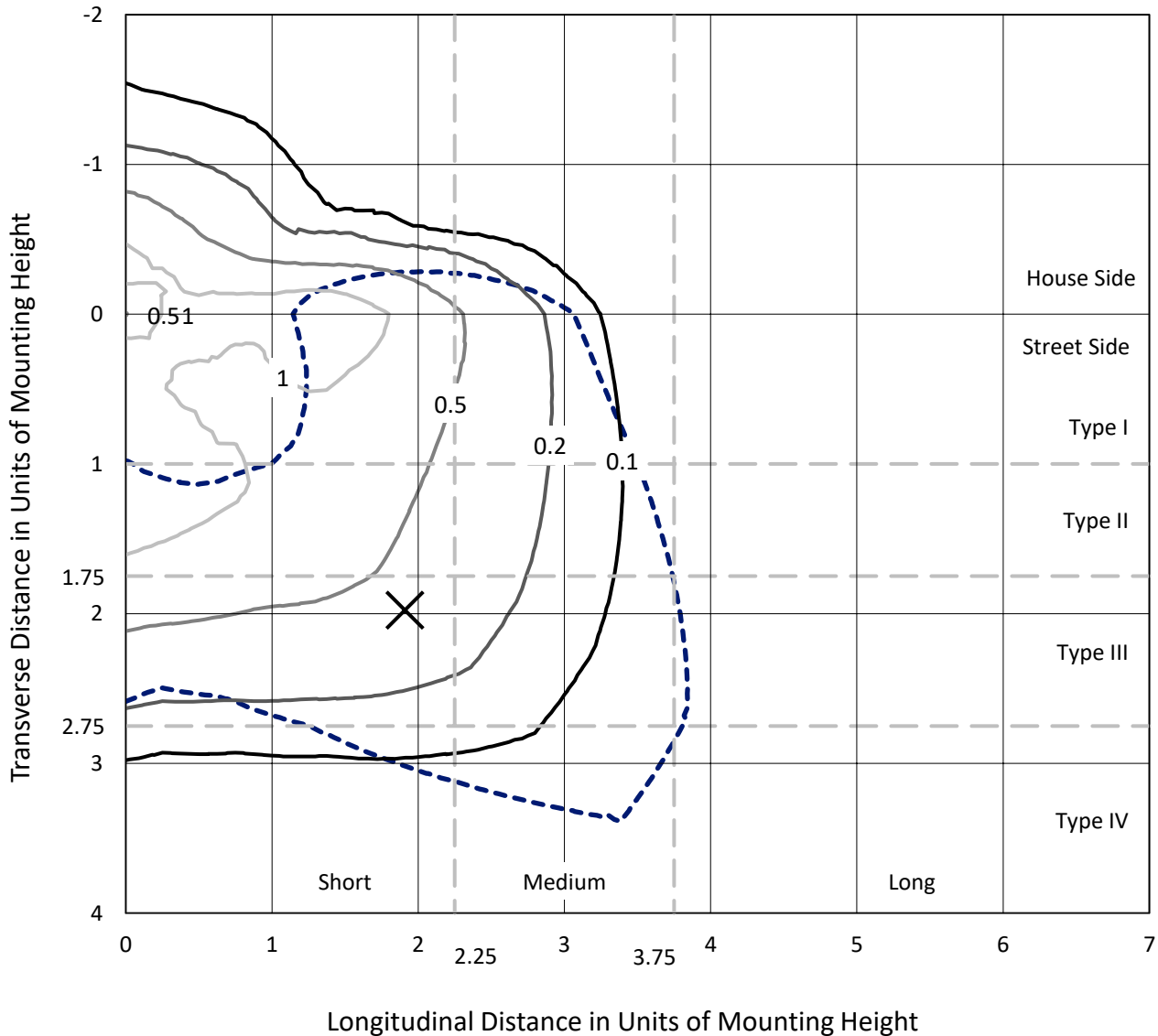


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Iso-Footcandle Lines of Horizontal Illumination

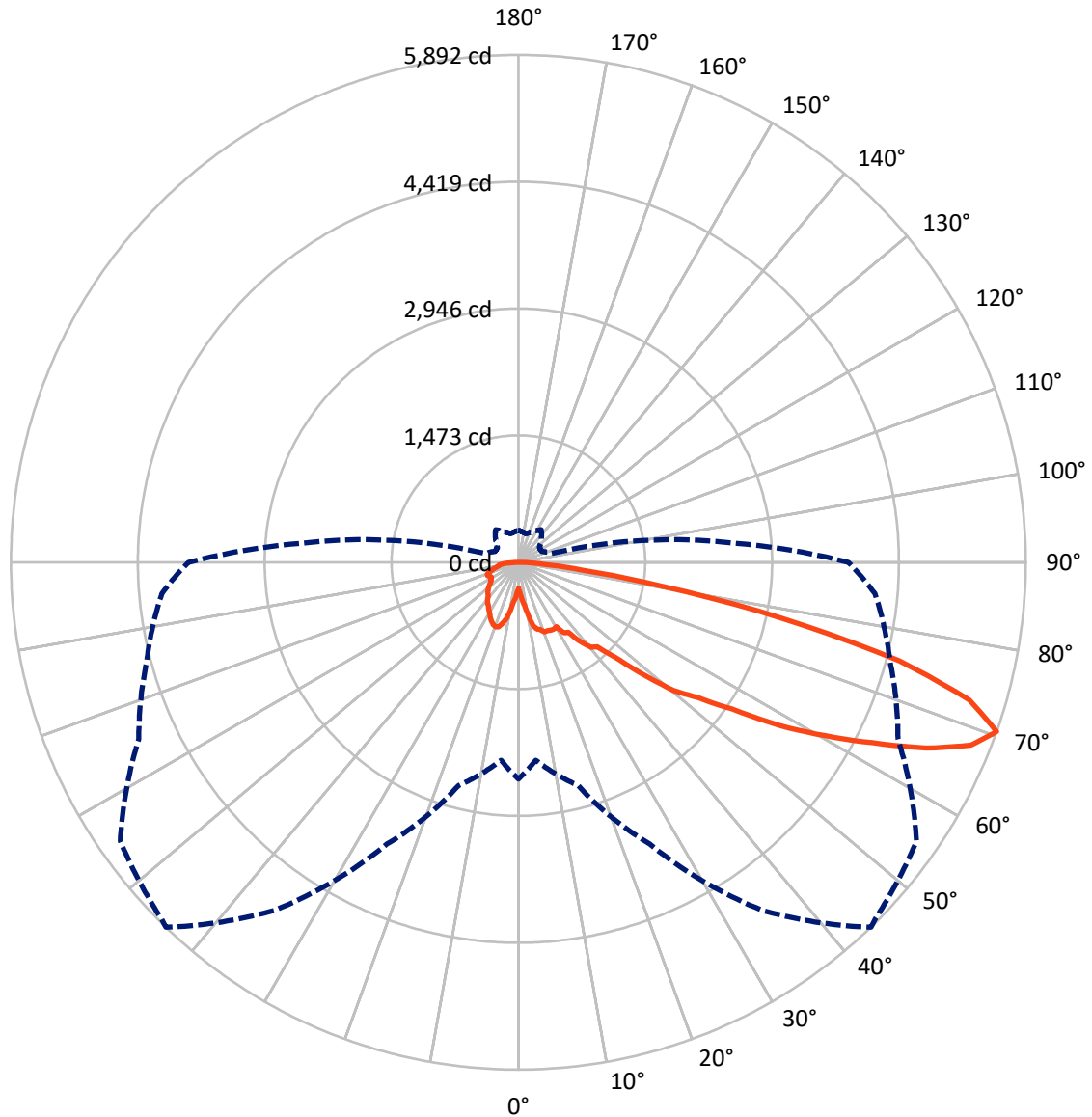
✕ Max cd
 - - - 1/2 Max cd



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 70-Deg Vertical

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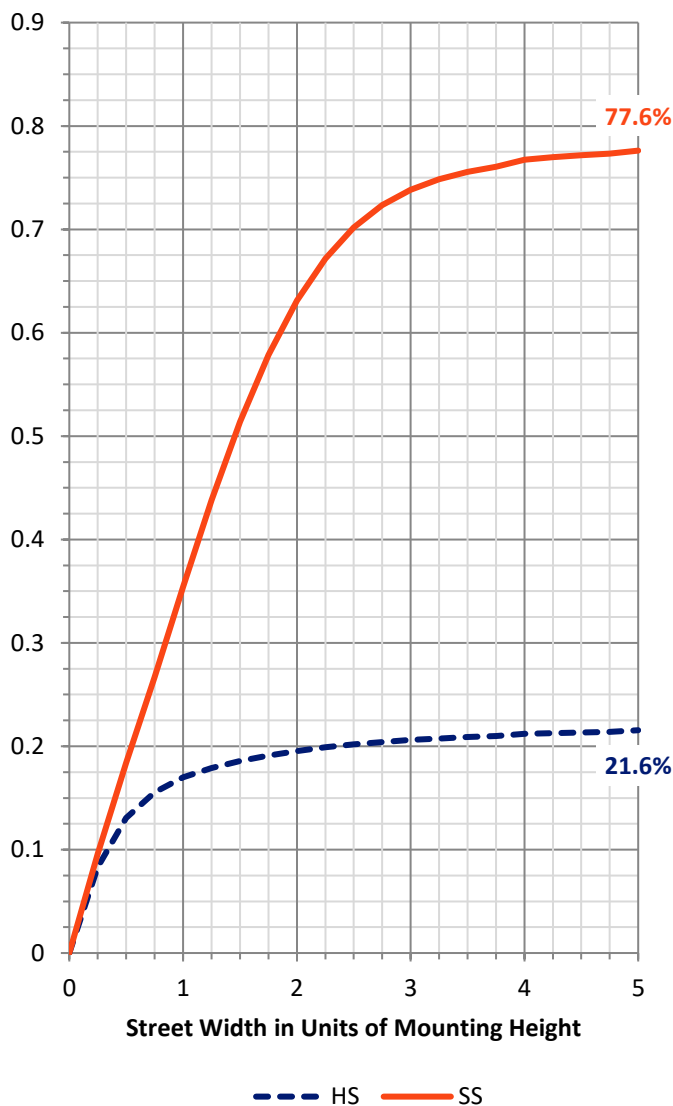
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1929.0 | 0.0 | 1929.0 |
| | % Fixture | 22.1 | 0.0 | 22.1 |
| Street Side | Lumens | 6813.9 | 0.0 | 6813.9 |
| | % Fixture | 77.9 | 0.0 | 77.9 |
| Total | Lumens | 8743.0 | 0.0 | 8743.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.6 | 0.5 |
| 10°-20° | 214.6 | 2.5 |
| 20°-30° | 401.0 | 4.6 |
| 30°-40° | 643.6 | 7.4 |
| 40°-50° | 1086.4 | 12.4 |
| 50°-60° | 1935.9 | 22.1 |
| 60°-70° | 2648.1 | 30.3 |
| 70°-80° | 1557.2 | 17.8 |
| 80°-90° | 209.7 | 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° | 8743.0 | 100.0 |
| 0°-180° | 8743.0 | 100.0 |

Coefficient of Utilization



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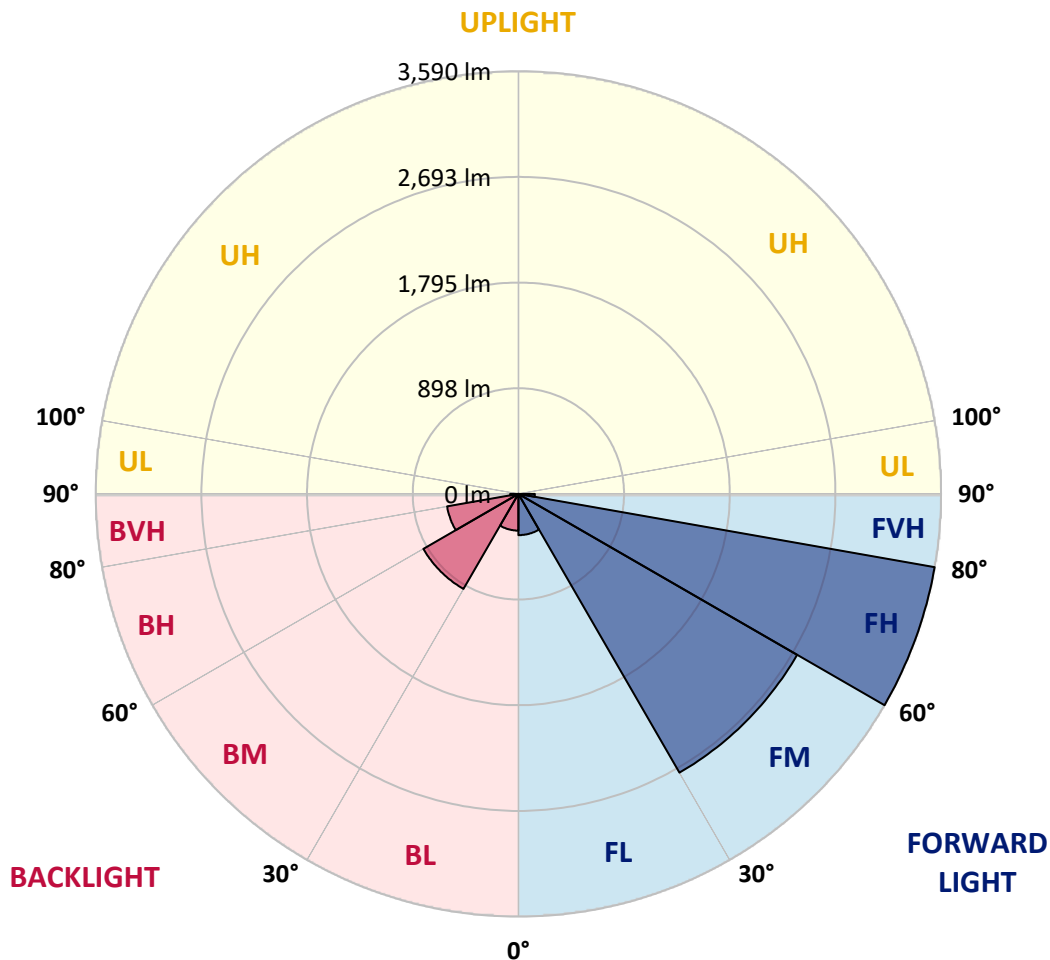
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 350.4 | 4.0 | | | |
| FM (30°-60°) | 2733.7 | 31.3 | | | |
| FH (60°-80°) | 3590.1 | 41.1 | | | G2/5000 |
| FVH (80°-90°) | 139.7 | 1.6 | | | G2/225 |
| BL (0°-30°) | 311.8 | 3.6 | B1/500 | | |
| BM (30°-60°) | 932.2 | 10.7 | B1/1000 | | |
| BH (60°-80°) | 615.1 | 7.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 69.9 | 0.8 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 297.2 | 297.2 | 297.2 | 297.2 | 297.2 | 297.2 | 297.2 | 297.2 | 297.2 | 297.2 | 297.2 |
| 2.5° | 360.6 | 353.5 | 336.3 | 342.0 | 349.2 | 352.0 | 351.3 | 350.6 | 339.5 | 335.5 | 355.3 |
| 5° | 490.1 | 474.3 | 461.7 | 456.7 | 440.2 | 427.3 | 419.4 | 440.2 | 437.0 | 442.4 | 456.0 |
| 7.5° | 611.9 | 601.9 | 573.6 | 563.5 | 529.8 | 507.6 | 505.1 | 521.6 | 525.9 | 517.3 | 540.6 |
| 10° | 690.4 | 673.2 | 667.5 | 643.5 | 620.2 | 616.6 | 614.4 | 606.9 | 596.5 | 595.8 | 575.0 |
| 12.5° | 751.4 | 760.4 | 765.0 | 737.4 | 738.1 | 751.0 | 744.2 | 713.7 | 696.2 | 665.4 | 667.9 |
| 15° | 860.7 | 873.6 | 836.7 | 819.1 | 785.4 | 804.8 | 802.3 | 776.8 | 774.3 | 754.3 | 731.0 |
| 17.5° | 956.1 | 961.8 | 900.2 | 860.0 | 848.5 | 820.6 | 828.1 | 828.8 | 795.8 | 831.7 | 810.9 |
| 20° | 964.0 | 984.4 | 913.4 | 833.5 | 867.9 | 864.3 | 865.4 | 858.2 | 814.8 | 874.0 | 866.1 |
| 22.5° | 1002.7 | 971.5 | 907.7 | 849.3 | 858.2 | 863.6 | 868.6 | 860.0 | 857.5 | 890.5 | 914.5 |
| 25° | 995.5 | 985.5 | 921.0 | 871.5 | 872.6 | 873.6 | 876.1 | 902.0 | 899.1 | 943.9 | 956.4 |
| 27.5° | 1062.6 | 1047.1 | 924.9 | 912.7 | 884.7 | 878.7 | 861.4 | 915.2 | 957.2 | 956.1 | 1025.3 |
| 30° | 1190.2 | 1174.4 | 1016.7 | 981.2 | 930.6 | 868.3 | 901.2 | 972.9 | 1005.9 | 1017.0 | 1104.9 |
| 32.5° | 1389.5 | 1415.3 | 1197.3 | 1054.3 | 991.6 | 978.0 | 974.4 | 967.2 | 1048.9 | 1103.8 | 1183.7 |
| 35° | 1675.6 | 1655.1 | 1410.3 | 1211.0 | 1055.7 | 997.3 | 1005.2 | 1048.9 | 1146.1 | 1181.6 | 1255.4 |
| 37.5° | 2003.2 | 1960.9 | 1683.1 | 1388.4 | 1240.7 | 1167.6 | 1141.4 | 1183.7 | 1205.2 | 1233.2 | 1384.1 |
| 40° | 2336.3 | 2233.0 | 1950.9 | 1621.8 | 1351.9 | 1296.6 | 1273.7 | 1221.7 | 1272.3 | 1328.9 | 1520.7 |
| 42.5° | 2657.8 | 2577.9 | 2242.3 | 1900.3 | 1539.0 | 1342.2 | 1329.6 | 1278.7 | 1435.4 | 1495.3 | 1717.9 |
| 45° | 2994.8 | 2809.5 | 2541.0 | 2214.7 | 1812.5 | 1565.5 | 1546.9 | 1455.5 | 1656.2 | 1781.0 | 1996.1 |
| 47.5° | 3221.4 | 3049.7 | 2814.5 | 2470.0 | 2041.6 | 1939.1 | 1903.6 | 1747.3 | 1929.4 | 2091.4 | 2425.9 |
| 50° | 3435.7 | 3259.0 | 3012.0 | 2749.2 | 2456.4 | 2338.4 | 2262.8 | 2002.5 | 2269.6 | 2533.4 | 2976.9 |
| 52.5° | 3742.6 | 3584.5 | 3241.4 | 3030.7 | 2902.0 | 2611.9 | 2555.7 | 2412.6 | 2667.5 | 3023.5 | 3579.1 |
| 55° | 4070.6 | 3855.2 | 3544.4 | 3427.5 | 3375.5 | 3004.1 | 2958.2 | 2867.2 | 3197.3 | 3525.0 | 4164.5 |
| 57.5° | 4215.5 | 3990.7 | 3819.3 | 3749.4 | 3745.1 | 3574.1 | 3521.4 | 3458.0 | 3739.0 | 3955.2 | 4715.5 |
| 60° | 4330.5 | 4089.3 | 4020.8 | 4059.9 | 4201.8 | 4089.3 | 4020.8 | 3964.9 | 4180.0 | 4380.4 | 5165.1 |
| 62.5° | 4309.4 | 4067.4 | 4102.5 | 4221.5 | 4584.0 | 4617.0 | 4564.3 | 4428.8 | 4617.0 | 4728.8 | 5422.8 |
| 65° | 3968.1 | 3744.4 | 3949.1 | 4231.6 | 4939.2 | 5202.7 | 5199.9 | 4845.3 | 4910.6 | 4910.6 | 5395.6 |
| 67.5° | 3370.1 | 3138.6 | 3473.7 | 4143.0 | 5184.8 | 5667.0 | 5667.7 | 5287.0 | 4937.4 | 4892.3 | 4974.0 |
| 70° | 2516.6 | 2306.9 | 2683.6 | 3608.2 | 4931.4 | 5891.7 | 5859.1 | 5643.3 | 4863.6 | 4468.9 | 4154.9 |
| 72.5° | 1503.1 | 1367.6 | 1714.3 | 2626.6 | 4206.5 | 5478.4 | 5565.2 | 5232.8 | 4452.4 | 3716.4 | 2970.1 |
| 75° | 682.6 | 623.8 | 805.5 | 1508.9 | 3003.0 | 4569.6 | 4663.9 | 4416.2 | 3536.5 | 2672.9 | 1716.4 |
| 77.5° | 292.2 | 276.4 | 351.7 | 669.3 | 1655.9 | 3124.9 | 3318.2 | 3156.1 | 2396.1 | 1553.3 | 759.3 |
| 80° | 187.8 | 177.8 | 216.2 | 321.9 | 769.0 | 1688.5 | 1854.8 | 1794.2 | 1220.6 | 604.1 | 267.4 |
| 82.5° | 112.2 | 109.0 | 144.5 | 202.2 | 419.4 | 743.1 | 837.4 | 859.7 | 506.9 | 271.0 | 153.1 |
| 85° | 61.3 | 62.0 | 79.2 | 122.6 | 251.7 | 289.3 | 309.7 | 337.0 | 238.8 | 157.0 | 74.2 |
| 87.5° | 20.4 | 23.7 | 31.9 | 49.8 | 89.6 | 81.7 | 82.1 | 95.4 | 100.7 | 65.2 | 23.7 |
| 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° | 297.2 | 297.2 | 297.2 | 297.2 | 297.2 | 297.2 | 297.2 | 297.2 | 297.2 | 297.2 | 297.2 |
| 2.5° | 358.5 | 352.0 | 335.5 | 336.6 | 342.7 | 344.1 | 345.9 | 335.5 | 333.4 | 353.1 | 354.9 |
| 5° | 458.1 | 437.0 | 427.3 | 424.1 | 414.8 | 411.5 | 428.8 | 436.6 | 444.5 | 459.9 | 467.5 |
| 7.5° | 538.1 | 514.4 | 496.9 | 480.7 | 467.1 | 459.2 | 488.3 | 510.5 | 524.1 | 555.7 | 570.0 |
| 10° | 574.7 | 554.2 | 547.8 | 534.9 | 545.3 | 568.9 | 574.3 | 575.0 | 605.1 | 604.4 | 610.5 |
| 12.5° | 647.4 | 634.2 | 613.0 | 617.7 | 644.9 | 669.3 | 662.5 | 672.9 | 683.6 | 709.4 | 697.6 |
| 15° | 713.7 | 710.2 | 690.4 | 693.7 | 699.1 | 729.5 | 733.5 | 743.9 | 760.4 | 780.8 | 766.8 |
| 17.5° | 795.5 | 794.0 | 746.0 | 741.7 | 754.3 | 784.0 | 774.7 | 756.4 | 810.9 | 832.8 | 827.0 |
| 20° | 851.0 | 840.3 | 778.6 | 760.4 | 792.3 | 796.2 | 785.4 | 756.4 | 803.7 | 851.4 | 864.3 |
| 22.5° | 897.3 | 884.7 | 821.3 | 785.4 | 779.0 | 780.8 | 780.8 | 775.4 | 798.7 | 837.8 | 837.4 |
| 25° | 934.6 | 946.4 | 865.7 | 831.3 | 796.9 | 753.9 | 748.5 | 753.2 | 766.4 | 841.7 | 839.2 |
| 27.5° | 1028.1 | 995.5 | 880.8 | 855.0 | 784.4 | 716.6 | 731.3 | 738.5 | 742.8 | 825.2 | 838.9 |
| 30° | 1089.1 | 1099.1 | 934.6 | 869.0 | 766.1 | 675.0 | 680.1 | 700.8 | 725.9 | 823.4 | 827.4 |
| 32.5° | 1171.2 | 1149.7 | 1018.5 | 845.7 | 717.3 | 649.9 | 640.6 | 668.6 | 705.9 | 794.4 | 805.2 |
| 35° | 1247.5 | 1273.0 | 1054.0 | 841.4 | 683.3 | 612.3 | 622.3 | 632.0 | 670.7 | 762.1 | 774.7 |
| 37.5° | 1426.8 | 1368.7 | 1153.6 | 820.6 | 655.0 | 593.3 | 582.5 | 597.2 | 630.2 | 700.8 | 729.9 |
| 40° | 1563.0 | 1566.6 | 1175.1 | 794.4 | 600.8 | 566.1 | 543.1 | 557.8 | 571.8 | 628.1 | 640.6 |
| 42.5° | 1818.6 | 1740.5 | 1227.8 | 737.1 | 566.8 | 525.2 | 512.3 | 518.7 | 520.9 | 544.5 | 565.3 |
| 45° | 2143.8 | 1960.6 | 1248.6 | 660.0 | 522.0 | 508.3 | 482.2 | 478.9 | 467.1 | 470.3 | 488.6 |
| 47.5° | 2593.7 | 2304.0 | 1233.6 | 577.9 | 482.2 | 486.5 | 448.8 | 434.1 | 417.6 | 421.6 | 438.8 |
| 50° | 3175.5 | 2742.8 | 1232.5 | 508.3 | 454.9 | 457.8 | 427.0 | 400.4 | 383.9 | 392.2 | 407.2 |
| 52.5° | 3828.3 | 3183.0 | 1237.5 | 460.7 | 425.2 | 423.7 | 412.6 | 380.4 | 367.1 | 375.7 | 392.9 |
| 55° | 4452.8 | 3561.6 | 1274.8 | 430.5 | 394.3 | 396.8 | 401.1 | 373.9 | 359.2 | 367.1 | 385.0 |
| 57.5° | 4996.2 | 3860.6 | 1260.8 | 398.6 | 365.7 | 377.1 | 388.6 | 364.9 | 353.8 | 365.3 | 383.2 |
| 60° | 5376.2 | 3999.3 | 1150.4 | 368.2 | 344.5 | 360.3 | 382.5 | 363.9 | 362.4 | 387.2 | 408.7 |
| 62.5° | 5515.0 | 3948.0 | 935.3 | 344.1 | 332.0 | 358.1 | 396.5 | 387.5 | 389.0 | 419.4 | 449.2 |
| 65° | 5312.4 | 3678.4 | 697.6 | 328.7 | 322.3 | 368.5 | 428.8 | 401.5 | 381.8 | 406.9 | 434.1 |
| 67.5° | 4736.3 | 3199.1 | 509.8 | 315.5 | 311.2 | 385.0 | 458.5 | 400.1 | 363.5 | 389.0 | 411.2 |
| 70° | 3831.9 | 2525.2 | 394.7 | 298.6 | 296.5 | 373.9 | 461.4 | 389.3 | 343.8 | 360.3 | 372.8 |
| 72.5° | 2625.6 | 1729.0 | 326.9 | 282.5 | 271.0 | 331.2 | 438.1 | 365.3 | 320.1 | 329.8 | 340.2 |
| 75° | 1467.3 | 970.4 | 275.0 | 262.4 | 237.3 | 295.0 | 410.8 | 351.0 | 302.6 | 305.4 | 319.8 |
| 77.5° | 658.5 | 419.8 | 233.4 | 235.9 | 206.8 | 261.0 | 375.3 | 328.0 | 275.7 | 269.2 | 283.6 |
| 80° | 249.1 | 204.7 | 189.3 | 199.3 | 173.9 | 226.2 | 338.4 | 307.2 | 247.4 | 239.1 | 247.4 |
| 82.5° | 144.5 | 124.0 | 140.5 | 153.4 | 138.0 | 207.9 | 323.0 | 288.2 | 218.0 | 197.2 | 204.3 |
| 85° | 67.0 | 64.2 | 84.2 | 99.7 | 96.4 | 162.0 | 276.4 | 216.9 | 155.2 | 131.2 | 145.2 |
| 87.5° | 17.6 | 19.7 | 29.8 | 35.1 | 35.8 | 55.6 | 106.5 | 80.7 | 60.6 | 45.9 | 44.1 |
| 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)