

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: P598264

Luminaire Tested: **PMM-SA1B-835-U-SL3**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-18)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA1B-835-U-SL3
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4097 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

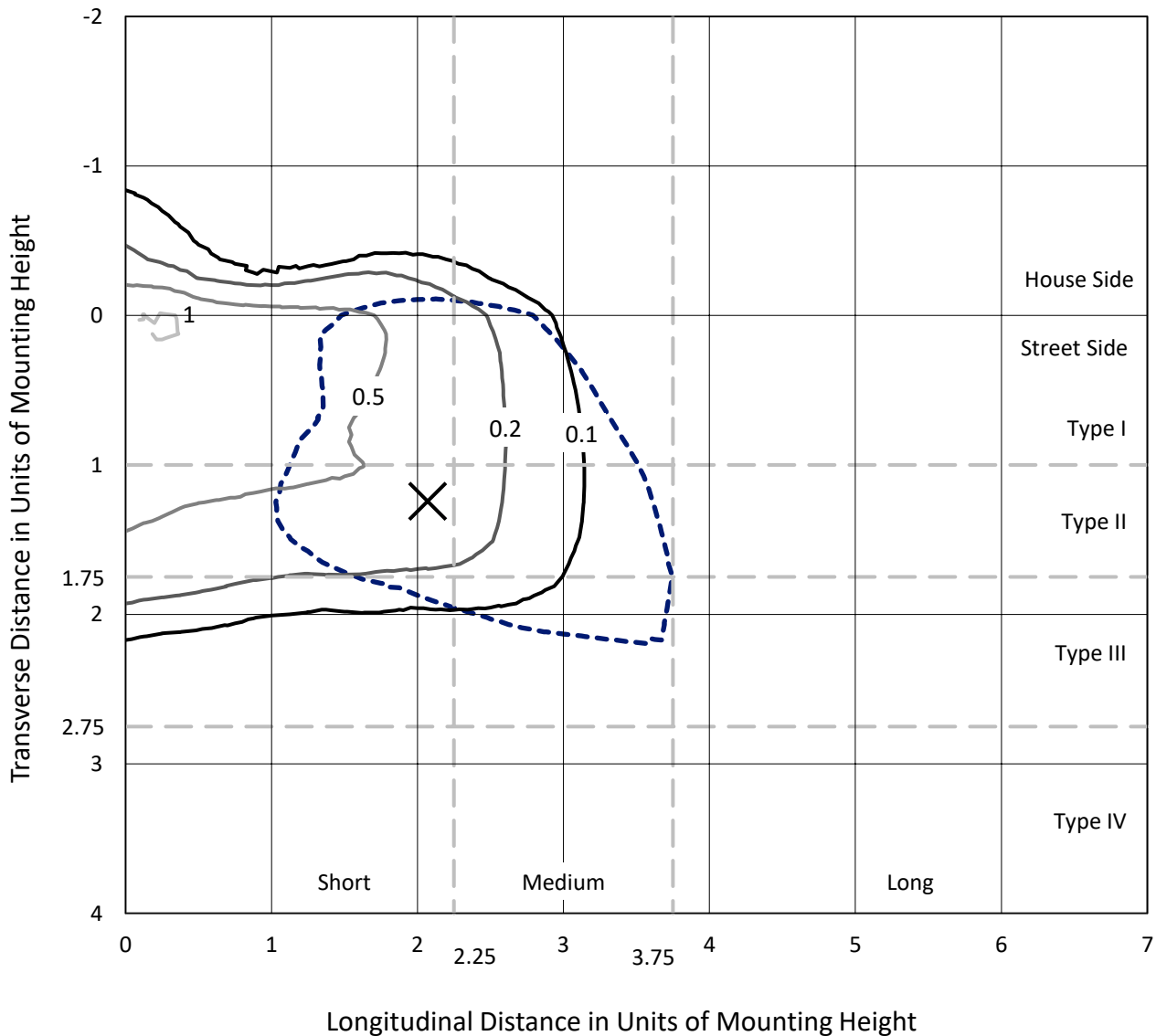
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

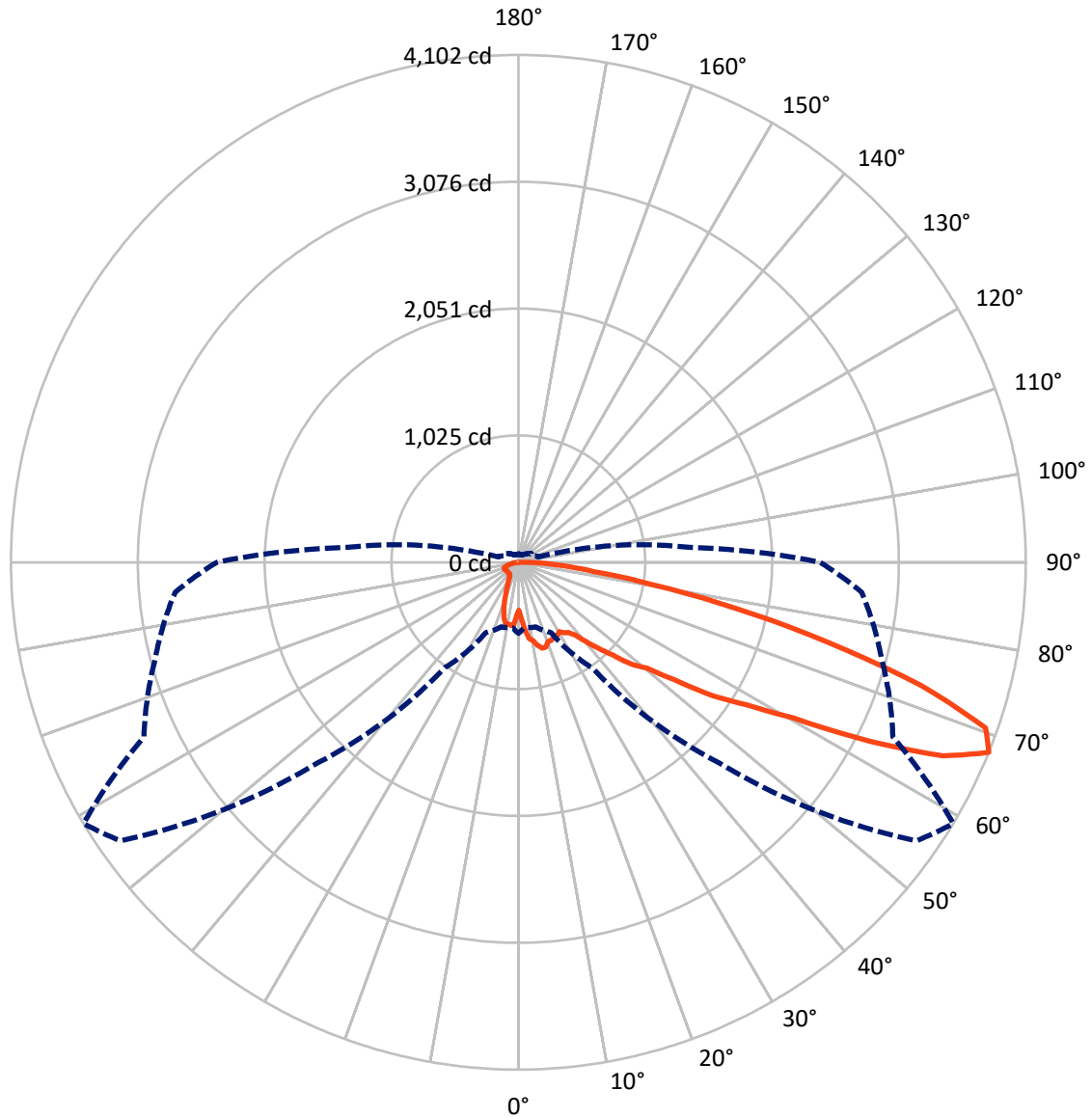
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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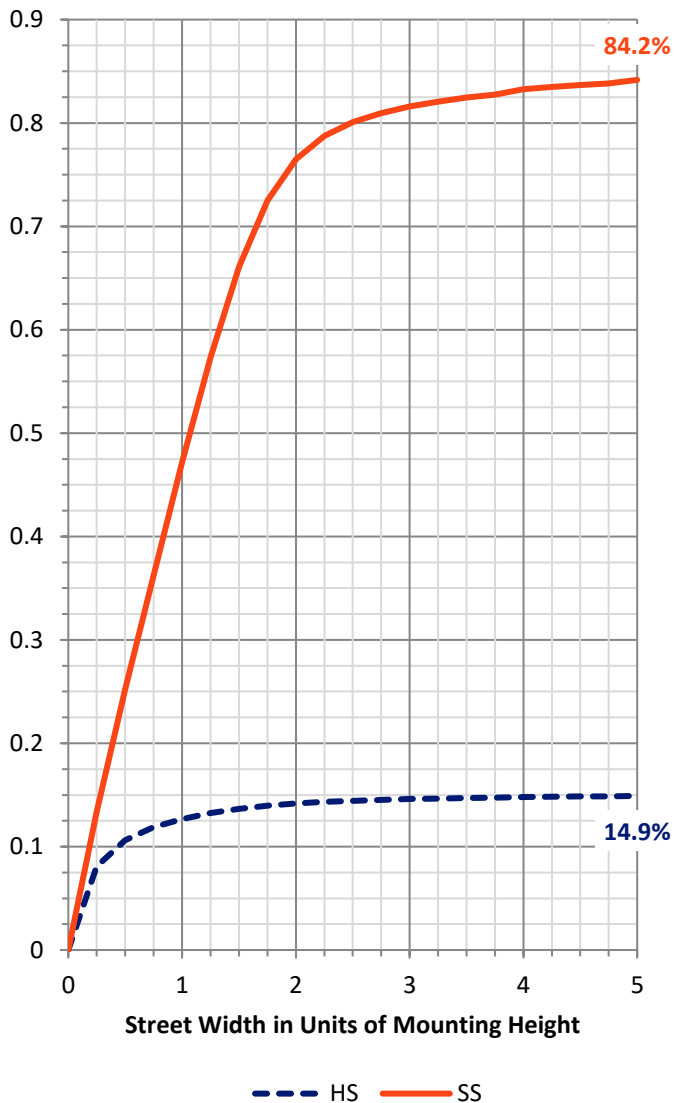
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 616.7 | 0.0 | 616.7 |
| | % Fixture | 15.1 | 0.0 | 15.1 |
| Street Side | Lumens | 3480.3 | 0.0 | 3480.3 |
| | % Fixture | 84.9 | 0.0 | 84.9 |
| Total | Lumens | 4097.0 | 0.0 | 4097.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 50.6 | 1.2 |
| 10°-20° | 149.8 | 3.7 |
| 20°-30° | 214.0 | 5.2 |
| 30°-40° | 315.3 | 7.7 |
| 40°-50° | 532.7 | 13.0 |
| 50°-60° | 927.0 | 22.6 |
| 60°-70° | 1181.3 | 28.8 |
| 70°-80° | 625.5 | 15.3 |
| 80°-90° | 100.6 | 2.5 |
| 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° | 4097.0 | 100.0 |
| 0°-180° | 4097.0 | 100.0 |



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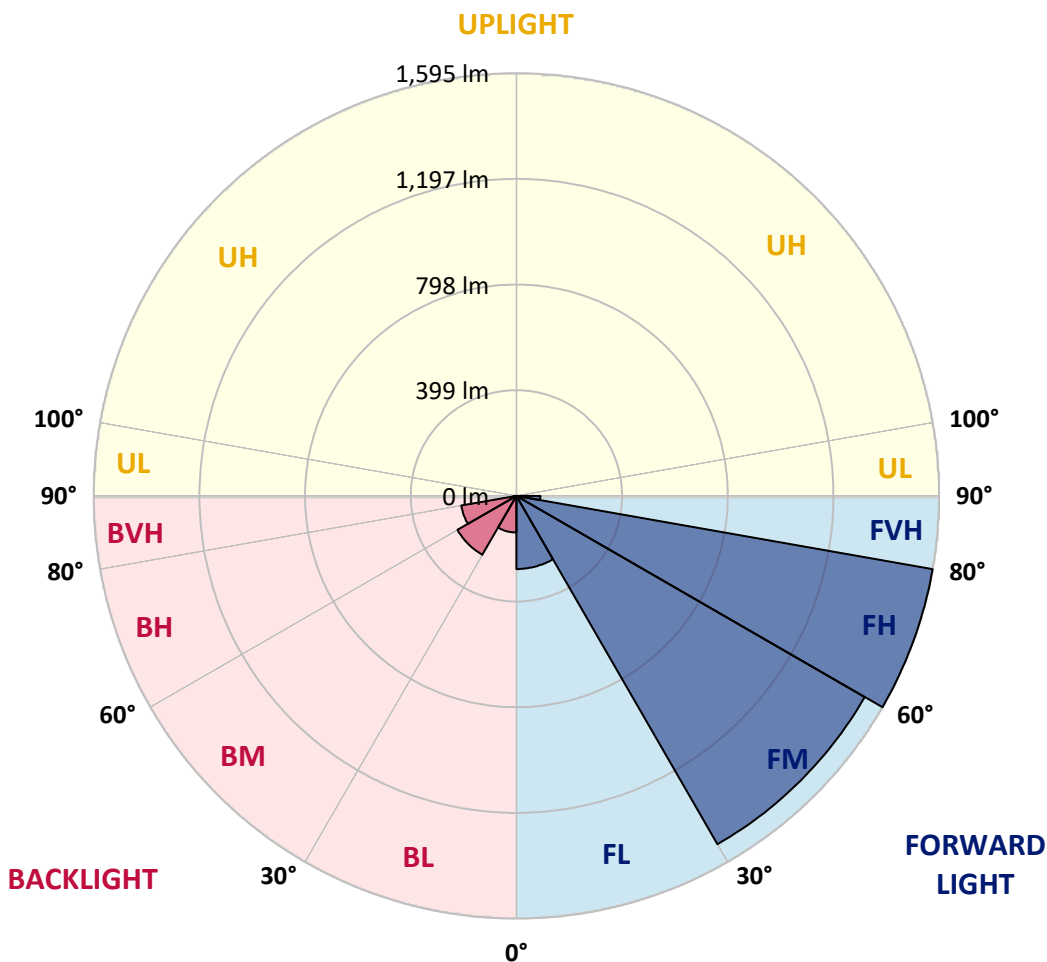
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 276.1 | 6.7 | | | |
| FM (30°-60°) | 1518.3 | 37.1 | | | |
| FH (60°-80°) | 1595.5 | 38.9 | | | G1/1800 |
| FVH (80°-90°) | 90.4 | 2.2 | | | G1/100 |
| BL (0°-30°) | 138.3 | 3.4 | B1/500 | | |
| BM (30°-60°) | 256.8 | 6.3 | B1/1000 | | |
| BH (60°-80°) | 211.4 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 10.2 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 387.7 | 387.7 | 387.7 | 387.7 | 387.7 | 387.7 | 387.7 | 387.7 | 387.7 | 387.7 | 387.7 |
| 2.5° | 484.0 | 461.5 | 437.5 | 444.3 | 458.0 | 464.2 | 457.5 | 450.9 | 442.4 | 432.3 | 466.7 |
| 5° | 587.0 | 553.5 | 548.6 | 548.5 | 543.6 | 524.1 | 549.1 | 547.4 | 557.5 | 567.9 | 594.6 |
| 7.5° | 616.3 | 603.8 | 590.3 | 596.7 | 572.2 | 571.2 | 610.1 | 621.2 | 640.6 | 634.2 | 670.2 |
| 10° | 601.2 | 587.2 | 594.3 | 591.7 | 593.9 | 619.6 | 643.4 | 644.1 | 664.9 | 685.4 | 662.3 |
| 12.5° | 574.7 | 575.7 | 604.0 | 603.0 | 639.4 | 687.2 | 694.3 | 688.7 | 722.8 | 708.9 | 728.7 |
| 15° | 593.6 | 606.3 | 599.1 | 605.2 | 619.6 | 680.4 | 700.2 | 720.3 | 752.6 | 765.1 | 745.3 |
| 17.5° | 623.8 | 630.6 | 598.6 | 595.3 | 625.0 | 653.8 | 703.0 | 720.2 | 725.2 | 814.3 | 786.3 |
| 20° | 611.0 | 624.7 | 593.4 | 553.3 | 602.6 | 640.8 | 689.3 | 684.0 | 708.5 | 818.1 | 794.8 |
| 22.5° | 647.4 | 624.7 | 584.9 | 556.4 | 573.8 | 608.9 | 650.0 | 684.2 | 713.2 | 795.7 | 807.1 |
| 25° | 654.4 | 643.6 | 606.4 | 578.1 | 572.2 | 584.7 | 643.4 | 665.8 | 714.8 | 826.2 | 800.5 |
| 27.5° | 696.7 | 680.6 | 604.9 | 605.7 | 576.4 | 554.4 | 622.6 | 669.6 | 732.5 | 807.3 | 816.7 |
| 30° | 749.3 | 737.0 | 642.0 | 645.5 | 604.9 | 564.3 | 636.8 | 651.1 | 742.7 | 836.8 | 837.0 |
| 32.5° | 788.7 | 810.4 | 715.1 | 667.9 | 653.5 | 623.1 | 614.9 | 679.0 | 730.7 | 890.3 | 871.7 |
| 35° | 859.7 | 876.6 | 771.4 | 733.5 | 684.7 | 650.5 | 674.3 | 697.4 | 780.6 | 960.6 | 923.3 |
| 37.5° | 991.2 | 971.7 | 875.9 | 816.3 | 798.1 | 748.8 | 762.0 | 745.9 | 834.7 | 1039.6 | 1024.3 |
| 40° | 1067.2 | 1050.4 | 949.5 | 916.5 | 844.3 | 850.5 | 834.1 | 845.9 | 907.1 | 1123.6 | 1118.8 |
| 42.5° | 1142.2 | 1119.6 | 1034.4 | 1011.5 | 939.4 | 908.9 | 911.8 | 950.0 | 1018.8 | 1259.4 | 1243.3 |
| 45° | 1216.4 | 1158.5 | 1121.2 | 1127.3 | 1092.6 | 1029.9 | 1034.2 | 1070.2 | 1140.7 | 1414.6 | 1377.5 |
| 47.5° | 1273.1 | 1225.4 | 1196.2 | 1188.7 | 1171.6 | 1255.4 | 1217.9 | 1232.5 | 1263.6 | 1552.8 | 1538.8 |
| 50° | 1380.6 | 1324.9 | 1286.8 | 1276.1 | 1334.4 | 1451.1 | 1374.7 | 1343.3 | 1409.4 | 1731.5 | 1724.2 |
| 52.5° | 1552.6 | 1483.2 | 1419.8 | 1419.1 | 1503.5 | 1579.2 | 1633.0 | 1578.9 | 1603.2 | 1914.5 | 1935.3 |
| 55° | 1702.8 | 1622.4 | 1565.5 | 1596.9 | 1717.1 | 1763.4 | 1946.2 | 1903.9 | 1883.4 | 2099.2 | 2158.7 |
| 57.5° | 1758.9 | 1665.0 | 1627.8 | 1674.2 | 1851.3 | 2089.5 | 2282.7 | 2171.2 | 2151.3 | 2308.2 | 2433.1 |
| 60° | 1635.8 | 1536.5 | 1538.8 | 1626.1 | 1932.9 | 2328.9 | 2650.6 | 2556.0 | 2439.0 | 2568.5 | 2690.4 |
| 62.5° | 1285.1 | 1195.3 | 1253.9 | 1386.7 | 1864.5 | 2561.5 | 3143.7 | 3183.6 | 2767.6 | 2784.3 | 2833.1 |
| 65° | 873.5 | 811.3 | 864.1 | 994.1 | 1512.2 | 2688.4 | 3613.3 | 3773.4 | 3066.9 | 2925.6 | 2894.7 |
| 67.5° | 574.8 | 530.9 | 541.2 | 627.6 | 1041.0 | 2291.9 | 3927.4 | 4101.8 | 3340.5 | 3041.6 | 2786.0 |
| 70° | 445.2 | 409.7 | 405.2 | 450.5 | 617.4 | 1592.2 | 3741.2 | 4006.5 | 3507.2 | 2932.9 | 2428.4 |
| 72.5° | 349.3 | 322.4 | 324.8 | 368.4 | 478.1 | 883.4 | 2895.0 | 3407.0 | 3256.2 | 2529.4 | 1865.7 |
| 75° | 272.4 | 250.4 | 262.7 | 312.5 | 442.2 | 549.0 | 1997.5 | 2585.8 | 2517.4 | 1873.0 | 1064.1 |
| 77.5° | 197.7 | 183.5 | 201.0 | 266.2 | 415.6 | 471.0 | 1243.4 | 1804.0 | 1612.7 | 961.7 | 365.1 |
| 80° | 129.7 | 121.7 | 136.1 | 217.0 | 376.9 | 453.3 | 768.4 | 1105.4 | 796.9 | 270.1 | 138.2 |
| 82.5° | 76.4 | 72.9 | 84.9 | 146.9 | 303.0 | 424.8 | 512.5 | 614.3 | 326.1 | 114.2 | 73.4 |
| 85° | 40.1 | 37.5 | 50.3 | 84.4 | 208.9 | 387.9 | 403.5 | 367.7 | 157.5 | 49.7 | 35.1 |
| 87.5° | 13.4 | 13.0 | 21.4 | 32.6 | 79.0 | 205.9 | 215.3 | 174.7 | 64.9 | 14.4 | 7.6 |
| 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° | 387.7 | 387.7 | 387.7 | 387.7 | 387.7 | 387.7 | 387.7 | 387.7 | 387.7 | 387.7 | 387.7 |
| 2.5° | 471.4 | 464.4 | 424.5 | 430.0 | 435.3 | 432.7 | 431.1 | 413.0 | 411.3 | 437.0 | 434.9 |
| 5° | 593.9 | 565.1 | 531.1 | 529.5 | 507.1 | 484.2 | 488.7 | 481.4 | 483.5 | 494.1 | 495.2 |
| 7.5° | 658.7 | 622.8 | 590.3 | 537.5 | 492.7 | 456.4 | 462.2 | 460.4 | 455.7 | 479.7 | 486.1 |
| 10° | 657.5 | 625.5 | 588.9 | 525.0 | 494.8 | 465.3 | 429.9 | 396.4 | 386.5 | 374.7 | 375.7 |
| 12.5° | 700.9 | 672.6 | 592.7 | 527.6 | 486.6 | 435.8 | 369.5 | 332.8 | 297.8 | 297.1 | 288.2 |
| 15° | 714.4 | 693.6 | 600.9 | 512.7 | 429.5 | 356.6 | 288.0 | 248.3 | 222.9 | 217.9 | 210.4 |
| 17.5° | 748.6 | 716.0 | 576.1 | 464.4 | 363.2 | 278.8 | 216.5 | 188.7 | 186.6 | 190.1 | 186.3 |
| 20° | 750.9 | 697.9 | 531.3 | 393.1 | 291.8 | 211.3 | 176.6 | 162.7 | 170.1 | 178.7 | 178.3 |
| 22.5° | 749.0 | 675.2 | 492.5 | 332.3 | 219.3 | 169.8 | 154.7 | 151.6 | 158.5 | 171.2 | 172.7 |
| 25° | 729.5 | 667.7 | 444.1 | 272.9 | 178.0 | 145.5 | 141.3 | 143.2 | 151.9 | 166.8 | 166.8 |
| 27.5° | 749.8 | 637.3 | 383.3 | 222.1 | 149.7 | 129.5 | 132.5 | 137.3 | 143.8 | 160.8 | 163.9 |
| 30° | 743.2 | 647.4 | 334.4 | 178.8 | 131.9 | 118.4 | 125.0 | 129.9 | 137.2 | 154.9 | 156.4 |
| 32.5° | 761.0 | 620.5 | 293.2 | 150.4 | 120.3 | 114.1 | 115.6 | 122.2 | 131.8 | 145.7 | 148.4 |
| 35° | 788.0 | 630.4 | 246.0 | 135.2 | 114.6 | 109.0 | 112.0 | 117.2 | 126.7 | 140.3 | 142.5 |
| 37.5° | 874.5 | 629.9 | 213.4 | 126.9 | 113.5 | 108.0 | 109.4 | 113.0 | 124.1 | 136.5 | 141.7 |
| 40° | 930.1 | 666.0 | 183.7 | 125.0 | 112.3 | 107.5 | 106.3 | 110.2 | 119.1 | 133.7 | 137.3 |
| 42.5° | 1034.4 | 688.0 | 170.8 | 124.3 | 112.2 | 104.5 | 103.3 | 108.0 | 116.7 | 130.2 | 135.8 |
| 45° | 1144.6 | 719.5 | 160.6 | 124.0 | 111.6 | 104.0 | 100.3 | 106.3 | 113.5 | 126.6 | 133.0 |
| 47.5° | 1274.3 | 786.0 | 154.9 | 122.7 | 110.6 | 104.7 | 99.3 | 102.3 | 110.4 | 123.4 | 129.9 |
| 50° | 1444.1 | 874.0 | 156.1 | 121.0 | 112.2 | 104.9 | 97.7 | 99.1 | 106.6 | 119.3 | 125.9 |
| 52.5° | 1650.6 | 1010.3 | 163.9 | 121.7 | 113.2 | 104.0 | 97.1 | 96.4 | 102.8 | 113.9 | 120.5 |
| 55° | 1899.4 | 1203.7 | 187.3 | 125.0 | 113.2 | 103.8 | 96.0 | 92.9 | 97.7 | 106.8 | 113.2 |
| 57.5° | 2199.5 | 1427.6 | 233.2 | 126.6 | 112.3 | 102.8 | 93.8 | 88.2 | 91.1 | 98.6 | 104.7 |
| 60° | 2457.4 | 1608.4 | 280.4 | 127.6 | 114.1 | 100.3 | 89.2 | 82.3 | 84.2 | 89.9 | 95.3 |
| 62.5° | 2588.8 | 1659.1 | 294.6 | 126.7 | 118.8 | 98.8 | 83.9 | 76.0 | 76.2 | 81.1 | 85.9 |
| 65° | 2613.4 | 1591.5 | 237.5 | 125.9 | 124.8 | 98.6 | 80.0 | 70.7 | 69.4 | 72.9 | 77.1 |
| 67.5° | 2437.7 | 1381.5 | 171.4 | 124.0 | 125.5 | 97.6 | 77.4 | 66.3 | 63.2 | 65.6 | 69.1 |
| 70° | 2069.8 | 1112.5 | 143.9 | 120.1 | 117.2 | 92.4 | 72.9 | 61.8 | 57.6 | 59.4 | 62.0 |
| 72.5° | 1543.1 | 823.1 | 125.5 | 112.0 | 102.1 | 79.0 | 66.0 | 56.8 | 52.4 | 53.6 | 55.6 |
| 75° | 857.3 | 439.1 | 105.0 | 97.4 | 83.3 | 63.9 | 56.3 | 50.3 | 46.5 | 47.0 | 49.1 |
| 77.5° | 284.7 | 162.0 | 77.1 | 77.3 | 63.0 | 49.3 | 46.4 | 43.1 | 40.1 | 40.3 | 42.0 |
| 80° | 129.0 | 89.6 | 55.2 | 55.6 | 43.9 | 35.8 | 35.6 | 34.5 | 32.6 | 32.1 | 33.3 |
| 82.5° | 74.8 | 54.3 | 37.8 | 36.1 | 28.3 | 23.3 | 25.9 | 25.3 | 24.8 | 22.9 | 23.3 |
| 85° | 36.8 | 29.2 | 19.8 | 18.8 | 15.6 | 11.6 | 13.9 | 14.4 | 13.9 | 11.8 | 11.6 |
| 87.5° | 9.0 | 9.5 | 4.9 | 4.5 | 2.6 | 1.2 | 2.1 | 2.1 | 2.6 | 1.7 | 0.9 |
| 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)