

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: P597975

Luminaire Tested: **PMM-SA2A-827-U-SL2-HSS**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P597975  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-17)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA2A-827-U-SL2-HSS  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS  
EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4789 lumens  
Efficiency: N/A  
Efficacy: 72.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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



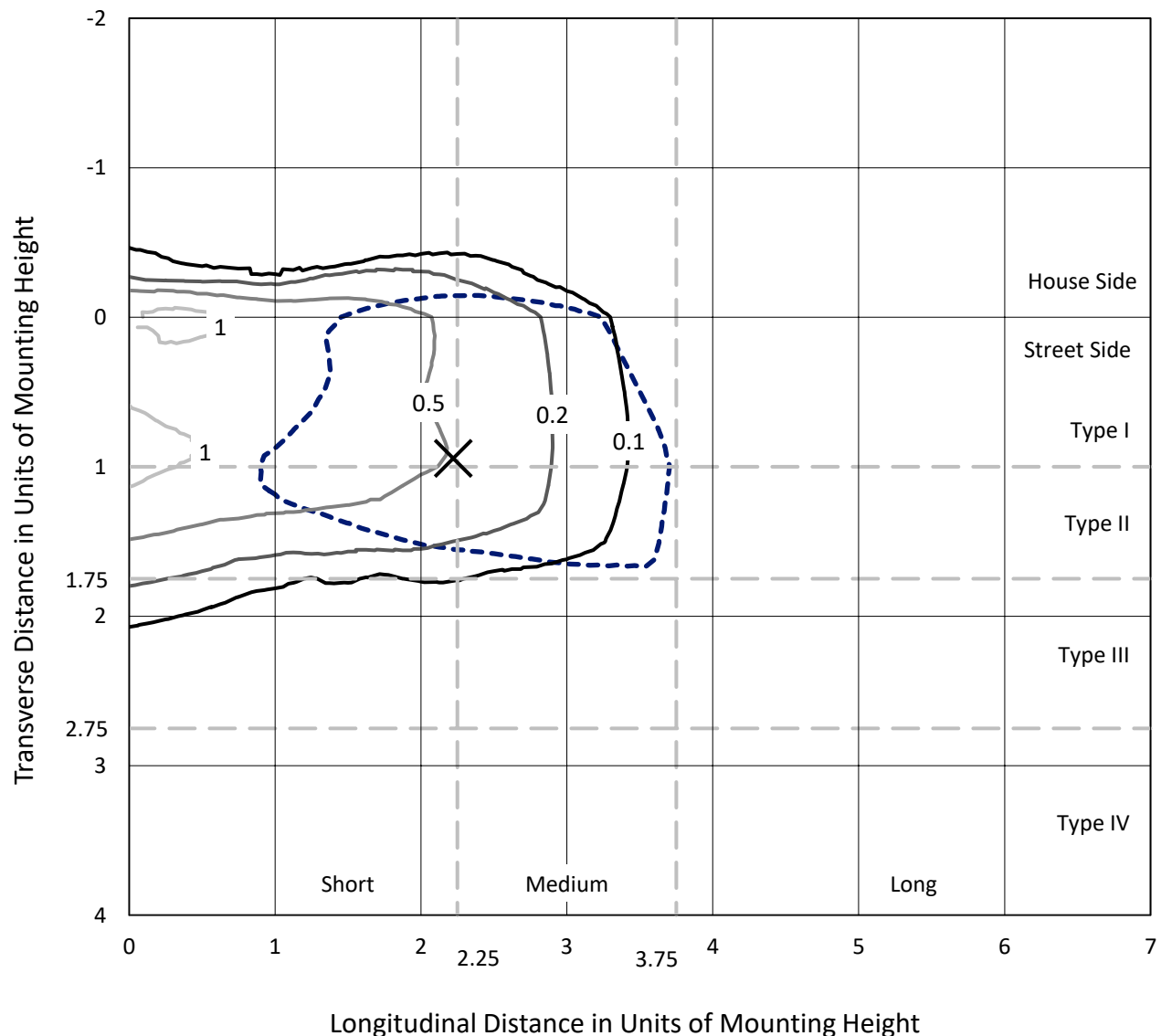
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



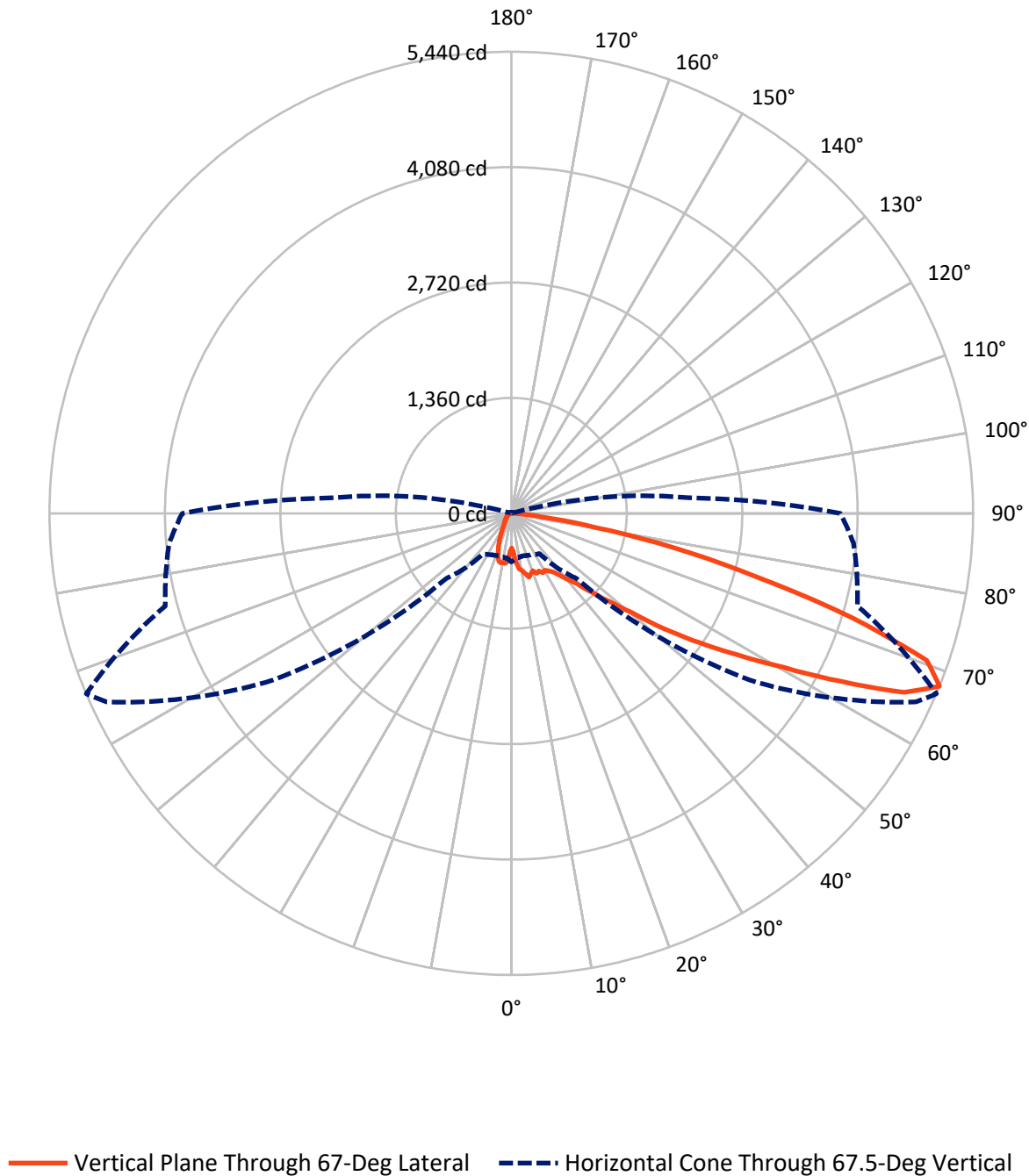
Based on 25 foot mounting height. Maximum calculated value = 1.3 fc

Type II - Short - N/A

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## Luminous Intensity Polar Plot



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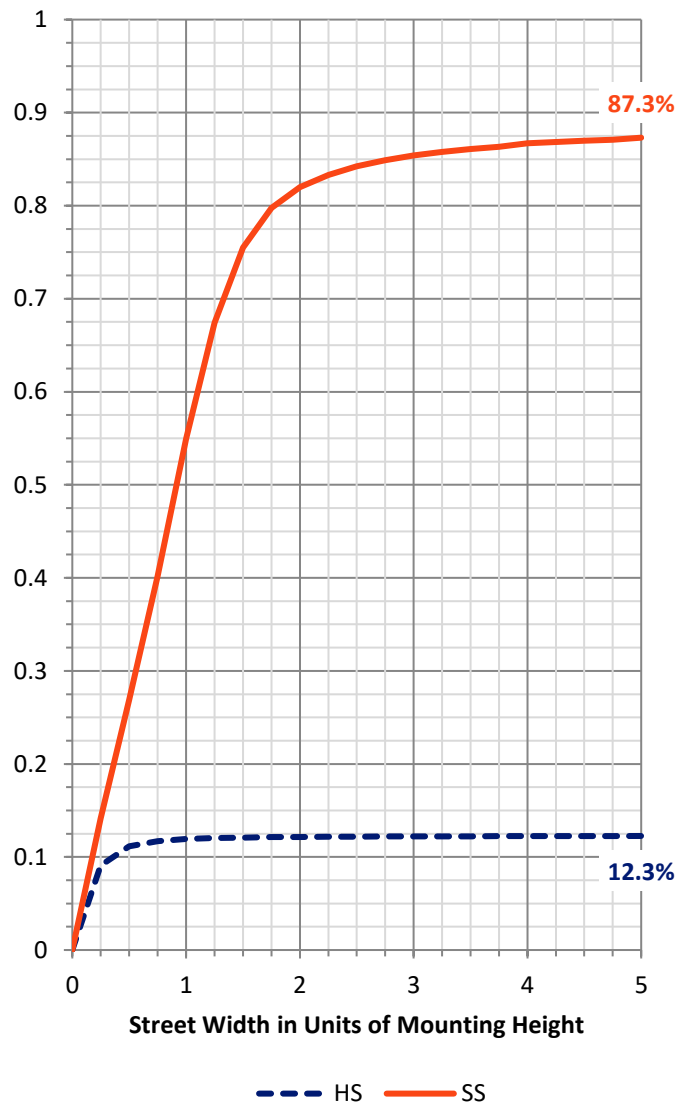
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 592.3    | 0.0    | 592.3  |
|                    | % Fixture | 12.4     | 0.0    | 12.4   |
| <b>Street Side</b> | Lumens    | 4196.7   | 0.0    | 4196.7 |
|                    | % Fixture | 87.6     | 0.0    | 87.6   |
| <b>Total</b>       | Lumens    | 4789.0   | 0.0    | 4789.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 51.2   | 1.1       |
| 10°-20°   | 151.5  | 3.2       |
| 20°-30°   | 237.4  | 5.0       |
| 30°-40°   | 382.8  | 8.0       |
| 40°-50°   | 703.4  | 14.7      |
| 50°-60°   | 1188.0 | 24.8      |
| 60°-70°   | 1313.4 | 27.4      |
| 70°-80°   | 687.4  | 14.4      |
| 80°-90°   | 73.8   | 1.5       |
| 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°    | 4789.0 | 100.0     |
| 0°-180°   | 4789.0 | 100.0     |

**Coefficient of Utilization**



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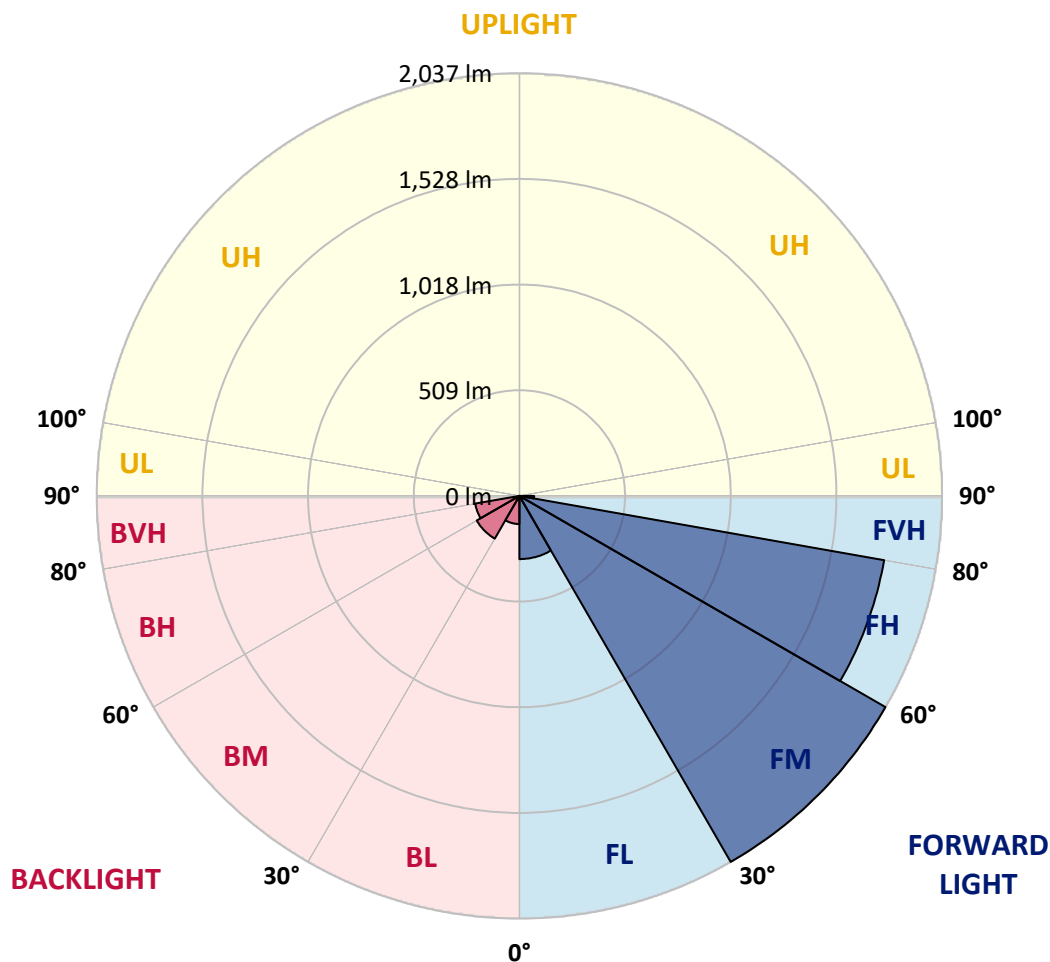
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 304.5  | 6.4       |                         |      |         |
| FM   | (30°-60°)   | 2036.8 | 42.5      |                         |      |         |
| FH   | (60°-80°)   | 1784.8 | 37.3      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 70.7   | 1.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 135.6  | 2.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 237.5  | 5.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 216.0  | 4.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 3.1    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 407.9  | 407.9  | 407.9  | 407.9  | 407.9  | 407.9  | 407.9  | 407.9  | 407.9  | 407.9  | 407.9  |
| 2.5°  | 481.5  | 465.2  | 437.5  | 445.5  | 461.6  | 474.9  | 468.6  | 456.2  | 456.5  | 443.8  | 489.3  |
| 5°    | 560.2  | 538.3  | 522.3  | 527.9  | 527.2  | 526.7  | 556.6  | 568.0  | 572.8  | 593.7  | 624.6  |
| 7.5°  | 582.8  | 575.0  | 558.3  | 563.4  | 546.6  | 547.8  | 600.3  | 649.9  | 657.6  | 670.5  | 725.4  |
| 10°   | 574.1  | 559.0  | 565.1  | 565.1  | 565.3  | 592.5  | 627.7  | 675.1  | 684.6  | 734.2  | 740.0  |
| 12.5° | 564.6  | 565.3  | 589.4  | 585.0  | 618.0  | 666.9  | 678.8  | 732.0  | 727.3  | 770.3  | 834.2  |
| 15°   | 599.8  | 618.3  | 602.7  | 608.8  | 612.0  | 669.3  | 688.5  | 759.2  | 779.6  | 834.0  | 875.5  |
| 17.5° | 660.3  | 662.7  | 630.4  | 621.7  | 644.5  | 660.8  | 699.4  | 733.4  | 747.0  | 889.9  | 948.7  |
| 20°   | 671.2  | 686.8  | 654.0  | 603.5  | 651.8  | 674.1  | 701.1  | 717.4  | 723.2  | 907.1  | 990.0  |
| 22.5° | 737.1  | 719.8  | 667.3  | 629.0  | 642.8  | 667.1  | 683.9  | 732.9  | 767.9  | 874.6  | 1029.6 |
| 25°   | 770.8  | 766.2  | 716.2  | 683.4  | 669.3  | 667.3  | 705.7  | 742.9  | 754.1  | 908.3  | 1039.3 |
| 27.5° | 851.7  | 841.3  | 744.4  | 740.2  | 693.8  | 653.0  | 706.5  | 773.3  | 794.2  | 876.5  | 1075.7 |
| 30°   | 961.8  | 957.9  | 828.9  | 826.2  | 752.4  | 679.0  | 745.8  | 792.0  | 779.3  | 892.8  | 1100.0 |
| 32.5° | 1072.6 | 1104.1 | 972.2  | 896.9  | 841.5  | 774.5  | 734.6  | 786.1  | 808.7  | 932.4  | 1144.7 |
| 35°   | 1206.4 | 1229.3 | 1094.9 | 1040.2 | 917.1  | 819.2  | 808.7  | 841.8  | 851.5  | 979.5  | 1195.5 |
| 37.5° | 1440.6 | 1406.1 | 1291.7 | 1198.6 | 1134.0 | 978.8  | 927.3  | 901.0  | 923.6  | 1043.4 | 1299.2 |
| 40°   | 1613.6 | 1591.7 | 1450.8 | 1395.2 | 1246.5 | 1155.6 | 1021.1 | 996.5  | 1021.8 | 1109.0 | 1371.4 |
| 42.5° | 1822.3 | 1776.8 | 1644.2 | 1606.5 | 1453.5 | 1278.3 | 1141.8 | 1150.3 | 1134.5 | 1238.5 | 1497.9 |
| 45°   | 2011.0 | 1908.5 | 1834.6 | 1843.2 | 1761.5 | 1524.9 | 1343.2 | 1339.1 | 1325.9 | 1426.0 | 1631.1 |
| 47.5° | 2138.1 | 2048.4 | 1976.5 | 1953.0 | 1943.2 | 1958.5 | 1634.2 | 1560.9 | 1551.1 | 1623.1 | 1840.7 |
| 50°   | 2206.3 | 2108.2 | 2019.3 | 2024.1 | 2221.4 | 2369.8 | 1934.5 | 1830.3 | 1833.9 | 1909.0 | 2127.4 |
| 52.5° | 2160.4 | 2049.4 | 1955.6 | 2046.7 | 2437.1 | 2644.1 | 2431.5 | 2182.3 | 2266.8 | 2247.6 | 2512.0 |
| 55°   | 1948.3 | 1851.9 | 1785.3 | 1948.3 | 2460.7 | 2939.3 | 3043.5 | 2712.1 | 2693.2 | 2649.5 | 2904.0 |
| 57.5° | 1591.5 | 1508.4 | 1467.3 | 1639.3 | 2202.9 | 3177.1 | 3658.1 | 3311.0 | 3149.4 | 2966.2 | 3229.6 |
| 60°   | 1185.8 | 1124.5 | 1081.8 | 1172.6 | 1735.8 | 2946.1 | 4060.7 | 3875.3 | 3688.2 | 3271.6 | 3522.1 |
| 62.5° | 878.2  | 828.4  | 783.0  | 791.2  | 1195.2 | 2533.8 | 4215.2 | 4473.2 | 4365.8 | 3594.0 | 3798.1 |
| 65°   | 700.9  | 655.4  | 623.6  | 605.4  | 740.2  | 1906.3 | 4000.2 | 4963.2 | 5087.1 | 3897.7 | 3997.3 |
| 67.5° | 572.4  | 534.0  | 518.2  | 539.1  | 580.6  | 1086.6 | 3425.9 | 5260.5 | 5440.3 | 4219.8 | 4046.3 |
| 70°   | 465.7  | 434.1  | 432.4  | 488.8  | 534.7  | 662.5  | 2520.0 | 5055.2 | 5190.6 | 4274.7 | 3752.1 |
| 72.5° | 324.6  | 310.7  | 332.8  | 412.7  | 529.8  | 551.7  | 1447.2 | 4183.3 | 4188.2 | 3775.5 | 3086.3 |
| 75°   | 183.7  | 181.5  | 216.5  | 329.2  | 516.0  | 546.1  | 806.8  | 2956.3 | 2958.5 | 2855.5 | 2138.1 |
| 77.5° | 101.1  | 94.5   | 126.1  | 222.5  | 443.1  | 533.5  | 520.4  | 2018.5 | 1966.8 | 1589.0 | 976.6  |
| 80°   | 46.6   | 44.0   | 68.3   | 142.6  | 324.1  | 504.6  | 417.1  | 1109.5 | 1000.4 | 517.7  | 238.3  |
| 82.5° | 19.2   | 18.2   | 31.3   | 91.6   | 204.8  | 406.4  | 351.5  | 492.2  | 395.0  | 98.4   | 73.6   |
| 85°   | 3.4    | 3.6    | 12.9   | 55.4   | 114.7  | 187.3  | 285.0  | 233.7  | 171.8  | 27.2   | 40.3   |
| 87.5° | 0.0    | 0.0    | 2.7    | 13.4   | 27.7   | 51.3   | 115.6  | 65.3   | 44.9   | 8.0    | 11.9   |
| 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°    | 407.9  | 407.9  | 407.9 | 407.9 | 407.9 | 407.9 | 407.9 | 407.9 | 407.9 | 407.9 | 407.9 |
| 2.5°  | 498.3  | 494.1  | 452.3 | 454.3 | 457.2 | 454.5 | 454.0 | 442.4 | 431.7 | 466.9 | 466.4 |
| 5°    | 630.2  | 600.8  | 571.9 | 560.7 | 536.6 | 505.1 | 505.3 | 495.3 | 485.1 | 499.5 | 499.5 |
| 7.5°  | 724.2  | 683.6  | 646.9 | 581.6 | 517.9 | 460.4 | 455.3 | 441.7 | 426.1 | 444.8 | 448.5 |
| 10°   | 746.1  | 710.8  | 663.5 | 567.5 | 507.2 | 451.1 | 389.4 | 338.7 | 315.1 | 304.2 | 302.2 |
| 12.5° | 813.3  | 787.1  | 681.2 | 575.0 | 488.3 | 393.3 | 292.3 | 232.0 | 190.9 | 187.8 | 183.4 |
| 15°   | 858.3  | 839.8  | 698.7 | 556.3 | 408.1 | 282.8 | 183.7 | 140.9 | 124.4 | 122.9 | 120.7 |
| 17.5° | 928.0  | 895.9  | 681.9 | 496.8 | 319.2 | 186.6 | 123.4 | 111.3 | 113.2 | 117.6 | 114.2 |
| 20°   | 956.4  | 893.8  | 645.5 | 410.6 | 224.2 | 125.1 | 107.1 | 100.6 | 105.7 | 109.8 | 107.9 |
| 22.5° | 985.6  | 900.1  | 613.2 | 338.4 | 146.5 | 103.5 | 95.5  | 92.1  | 92.6  | 96.7  | 96.9  |
| 25°   | 985.3  | 917.6  | 575.8 | 263.6 | 109.1 | 92.1  | 86.2  | 81.9  | 80.2  | 83.1  | 82.4  |
| 27.5° | 1033.2 | 897.4  | 507.5 | 195.6 | 96.0  | 82.4  | 76.8  | 71.4  | 65.3  | 68.3  | 68.3  |
| 30°   | 1033.4 | 930.2  | 459.9 | 140.4 | 87.9  | 73.4  | 68.5  | 60.2  | 53.2  | 55.6  | 55.9  |
| 32.5° | 1060.9 | 901.8  | 415.9 | 107.4 | 81.6  | 68.0  | 57.3  | 49.8  | 45.7  | 47.1  | 47.1  |
| 35°   | 1092.2 | 926.1  | 348.4 | 94.7  | 75.3  | 60.5  | 49.1  | 43.0  | 39.8  | 41.1  | 41.1  |
| 37.5° | 1195.7 | 921.0  | 301.5 | 88.2  | 71.2  | 54.7  | 44.7  | 37.9  | 36.4  | 37.2  | 38.1  |
| 40°   | 1233.1 | 957.2  | 237.8 | 84.3  | 64.4  | 49.3  | 39.4  | 34.3  | 32.3  | 32.8  | 33.0  |
| 42.5° | 1328.4 | 965.2  | 190.0 | 81.1  | 58.3  | 42.8  | 35.0  | 31.3  | 28.9  | 28.9  | 29.6  |
| 45°   | 1433.6 | 985.3  | 151.1 | 78.5  | 53.2  | 38.4  | 31.6  | 28.7  | 25.0  | 24.5  | 25.5  |
| 47.5° | 1585.9 | 1062.6 | 123.2 | 73.1  | 47.1  | 35.7  | 29.2  | 24.8  | 21.9  | 20.9  | 21.9  |
| 50°   | 1840.7 | 1193.8 | 108.8 | 66.6  | 42.8  | 33.5  | 25.8  | 21.1  | 18.9  | 17.7  | 18.5  |
| 52.5° | 2200.3 | 1420.4 | 101.3 | 60.5  | 38.9  | 30.1  | 23.1  | 18.5  | 16.3  | 15.3  | 15.8  |
| 55°   | 2599.7 | 1680.4 | 97.7  | 54.4  | 35.5  | 26.5  | 20.2  | 16.3  | 14.3  | 13.1  | 13.4  |
| 57.5° | 2968.9 | 1924.8 | 94.0  | 48.6  | 32.1  | 23.6  | 17.7  | 14.3  | 12.4  | 11.2  | 11.4  |
| 60°   | 3332.8 | 2119.9 | 85.3  | 41.8  | 28.9  | 21.1  | 15.5  | 12.4  | 11.2  | 9.7   | 9.7   |
| 62.5° | 3654.7 | 2236.5 | 72.6  | 36.2  | 26.0  | 18.7  | 13.8  | 11.2  | 10.2  | 8.7   | 8.7   |
| 65°   | 3873.8 | 2241.8 | 58.5  | 31.1  | 22.8  | 16.0  | 12.1  | 10.4  | 9.5   | 7.8   | 7.5   |
| 67.5° | 3877.0 | 2096.0 | 46.9  | 27.7  | 20.2  | 14.1  | 10.9  | 10.0  | 8.7   | 7.3   | 6.8   |
| 70°   | 3470.1 | 1731.6 | 39.1  | 24.3  | 17.5  | 12.4  | 9.5   | 9.5   | 8.5   | 7.0   | 6.3   |
| 72.5° | 2775.8 | 1323.3 | 32.8  | 21.1  | 15.5  | 10.7  | 8.7   | 9.0   | 8.3   | 7.0   | 6.3   |
| 75°   | 1865.7 | 758.9  | 27.2  | 18.0  | 13.6  | 9.0   | 8.5   | 8.7   | 8.5   | 7.0   | 6.1   |
| 77.5° | 859.3  | 241.7  | 21.1  | 14.8  | 11.7  | 7.5   | 8.3   | 8.3   | 7.8   | 6.3   | 5.3   |
| 80°   | 193.6  | 59.5   | 15.3  | 10.9  | 9.5   | 5.6   | 7.5   | 6.8   | 6.1   | 4.4   | 3.2   |
| 82.5° | 70.5   | 18.2   | 9.2   | 6.8   | 5.8   | 2.2   | 4.9   | 4.9   | 4.4   | 3.2   | 1.9   |
| 85°   | 40.3   | 9.5    | 5.1   | 4.4   | 3.2   | 1.0   | 2.7   | 2.9   | 2.4   | 2.2   | 1.0   |
| 87.5° | 13.1   | 2.2    | 2.4   | 2.7   | 2.4   | 0.5   | 1.0   | 1.0   | 0.7   | 0.5   | 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)