

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: P366848

Luminaire Tested: **PMM-SA1B-830-U-SL3**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P366848  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA1B-830-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**

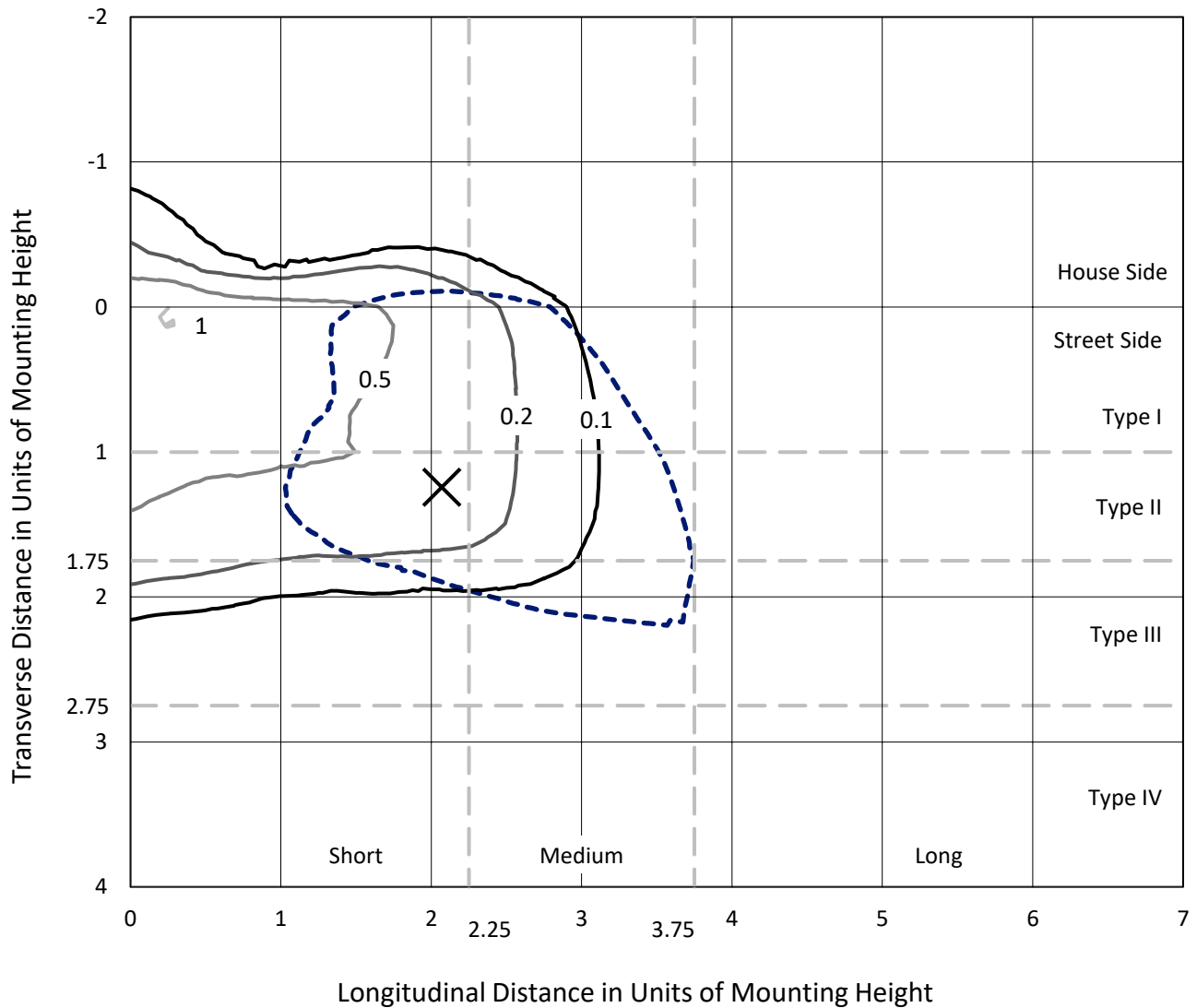
Lumens per Lamp: N/A  
Luminaire Lumens: 3949 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

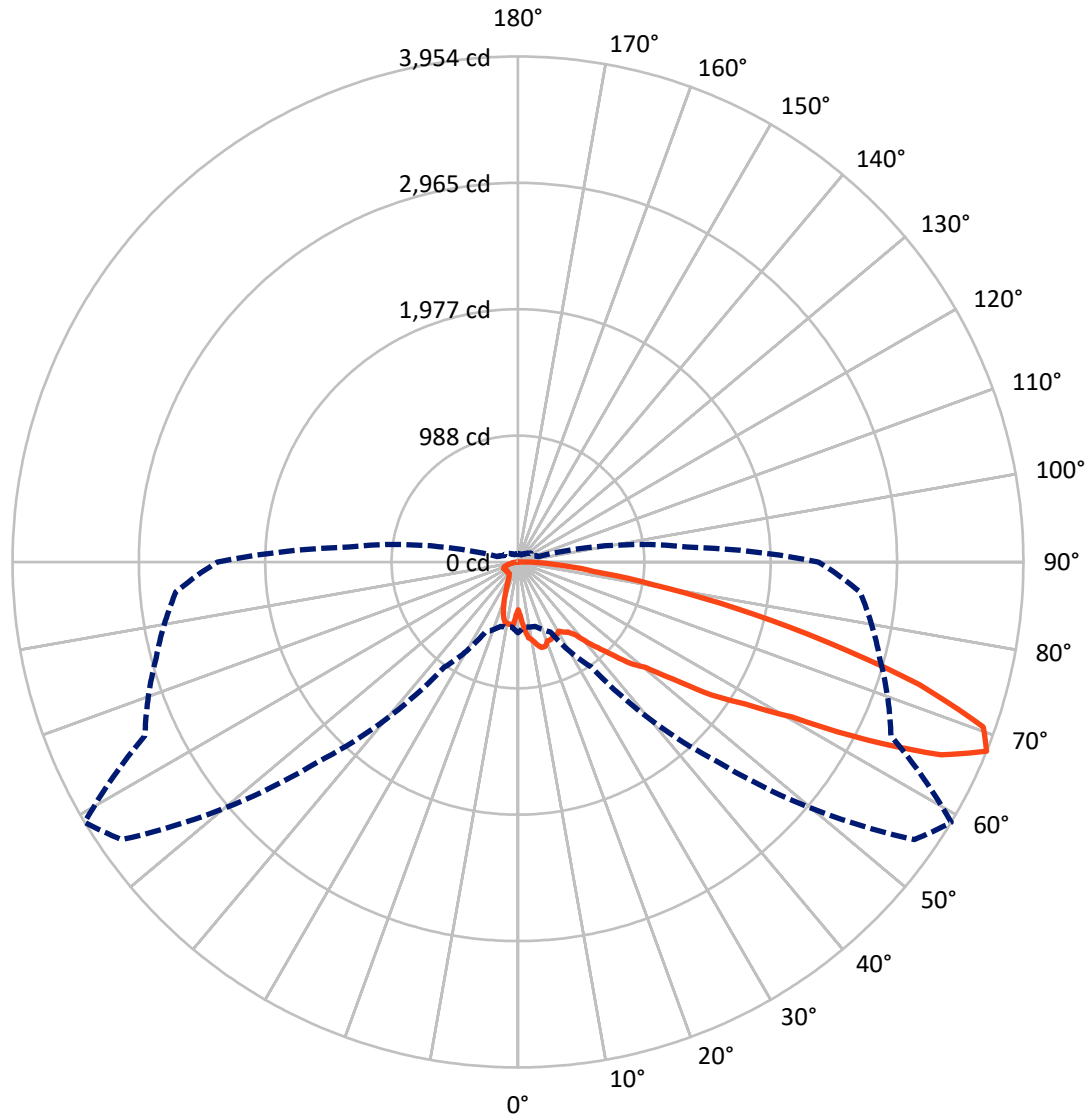
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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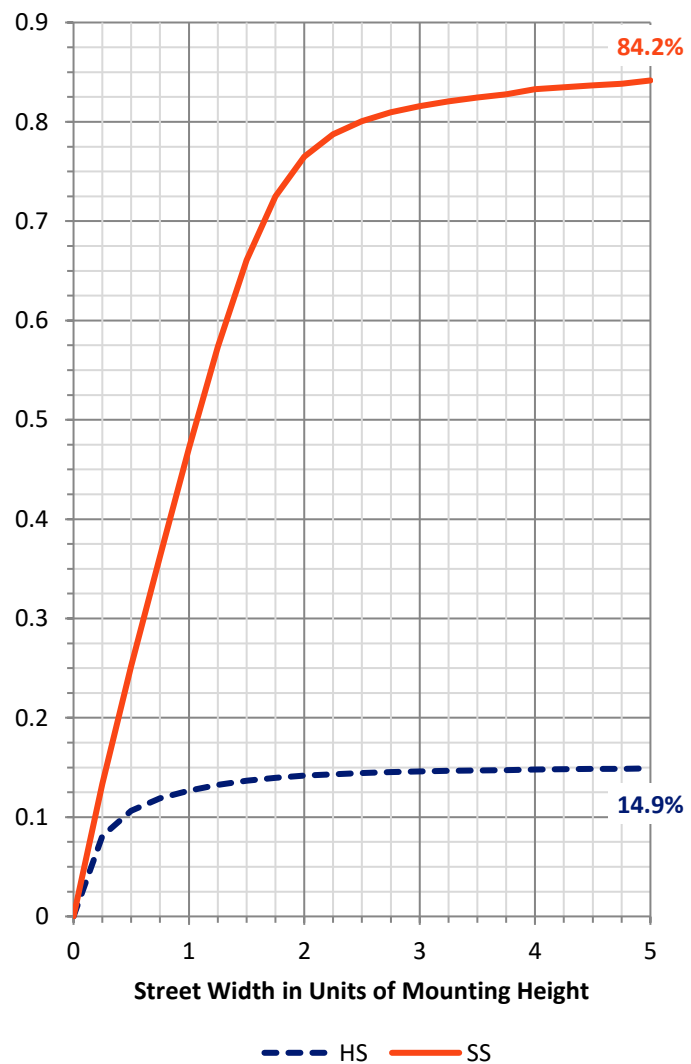
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 594.4    | 0.0    | 594.4  |
|                    | % Fixture | 15.1     | 0.0    | 15.1   |
| <b>Street Side</b> | Lumens    | 3354.6   | 0.0    | 3354.6 |
|                    | % Fixture | 84.9     | 0.0    | 84.9   |
| <b>Total</b>       | Lumens    | 3949.0   | 0.0    | 3949.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 48.8   | 1.2       |
| 10°-20°   | 144.4  | 3.7       |
| 20°-30°   | 206.2  | 5.2       |
| 30°-40°   | 303.9  | 7.7       |
| 40°-50°   | 513.5  | 13.0      |
| 50°-60°   | 893.6  | 22.6      |
| 60°-70°   | 1138.7 | 28.8      |
| 70°-80°   | 602.9  | 15.3      |
| 80°-90°   | 97.0   | 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°    | 3949.0 | 100.0     |
| 0°-180°   | 3949.0 | 100.0     |



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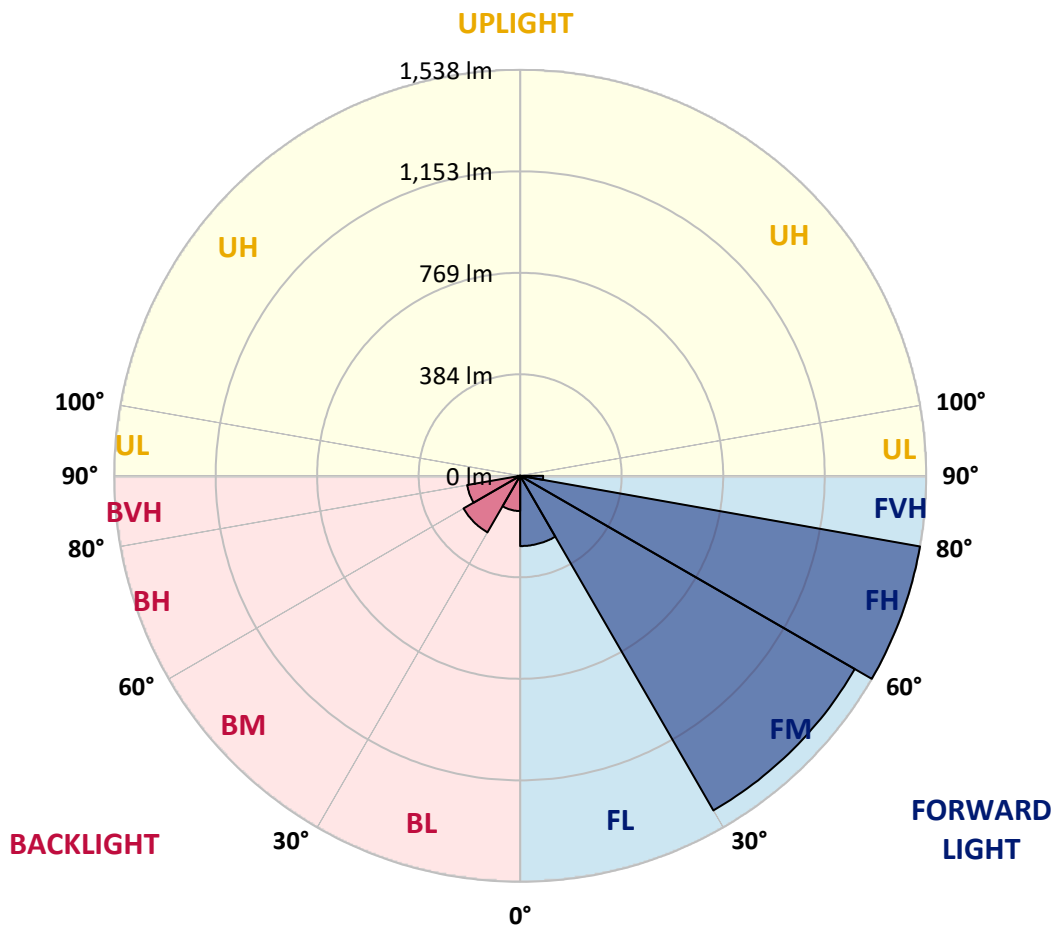
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 266.2  | 6.7       |                         |      |         |
| FM (30°-60°)   | 1463.4 | 37.1      |                         |      |         |
| FH (60°-80°)   | 1537.9 | 38.9      |                         |      | G1/1800 |
| FVH (80°-90°)  | 87.1   | 2.2       |                         |      | G1/100  |
| BL (0°-30°)    | 133.3  | 3.4       | B1/500                  |      |         |
| BM (30°-60°)   | 247.5  | 6.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 203.7  | 5.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 9.9    | 0.3       |                         |      | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 59°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 373.7  | 373.7  | 373.7  | 373.7  | 373.7  | 373.7  | 373.7  | 373.7  | 373.7  | 373.7  | 373.7  |
| 2.5°  | 466.6  | 444.8  | 421.7  | 428.2  | 441.5  | 447.5  | 441.0  | 434.6  | 426.4  | 416.7  | 449.8  |
| 5°    | 565.8  | 533.5  | 528.8  | 528.6  | 524.0  | 505.2  | 529.3  | 527.6  | 537.3  | 547.4  | 573.2  |
| 7.5°  | 594.1  | 582.0  | 569.0  | 575.2  | 551.6  | 550.6  | 588.0  | 598.8  | 617.5  | 611.3  | 645.9  |
| 10°   | 579.5  | 566.0  | 572.8  | 570.3  | 572.5  | 597.3  | 620.2  | 620.8  | 640.9  | 660.7  | 638.4  |
| 12.5° | 553.9  | 554.9  | 582.2  | 581.2  | 616.3  | 662.3  | 669.2  | 663.9  | 696.7  | 683.3  | 702.3  |
| 15°   | 572.1  | 584.4  | 577.5  | 583.4  | 597.3  | 655.8  | 674.9  | 694.3  | 725.4  | 737.5  | 718.4  |
| 17.5° | 601.3  | 607.8  | 577.0  | 573.8  | 602.4  | 630.2  | 677.6  | 694.1  | 699.0  | 784.8  | 757.9  |
| 20°   | 588.9  | 602.1  | 572.0  | 533.3  | 580.9  | 617.7  | 664.4  | 659.3  | 682.9  | 788.5  | 766.1  |
| 22.5° | 624.0  | 602.1  | 563.8  | 536.3  | 553.1  | 586.9  | 626.5  | 659.5  | 687.4  | 766.9  | 778.0  |
| 25°   | 630.7  | 620.3  | 584.5  | 557.3  | 551.6  | 563.6  | 620.2  | 641.8  | 689.0  | 796.4  | 771.6  |
| 27.5° | 671.6  | 656.0  | 583.0  | 583.9  | 555.6  | 534.3  | 600.1  | 645.4  | 706.0  | 778.2  | 787.2  |
| 30°   | 722.3  | 710.4  | 618.8  | 622.2  | 583.0  | 543.9  | 613.8  | 627.5  | 715.9  | 806.6  | 806.8  |
| 32.5° | 760.2  | 781.2  | 689.3  | 643.8  | 629.9  | 600.6  | 592.7  | 654.5  | 704.4  | 858.1  | 840.2  |
| 35°   | 828.7  | 844.9  | 743.5  | 707.0  | 660.0  | 627.0  | 650.0  | 672.2  | 752.4  | 925.9  | 889.9  |
| 37.5° | 955.4  | 936.6  | 844.3  | 786.9  | 769.3  | 721.8  | 734.5  | 718.9  | 804.6  | 1002.1 | 987.3  |
| 40°   | 1028.7 | 1012.4 | 915.2  | 883.4  | 813.8  | 819.8  | 803.9  | 815.3  | 874.4  | 1083.1 | 1078.4 |
| 42.5° | 1101.0 | 1079.2 | 997.0  | 974.9  | 905.5  | 876.0  | 878.9  | 915.7  | 982.0  | 1213.9 | 1198.4 |
| 45°   | 1172.4 | 1116.7 | 1080.7 | 1086.6 | 1053.1 | 992.7  | 996.9  | 1031.5 | 1099.5 | 1363.5 | 1327.7 |
| 47.5° | 1227.1 | 1181.1 | 1153.0 | 1145.8 | 1129.2 | 1210.1 | 1173.9 | 1188.0 | 1217.9 | 1496.7 | 1483.2 |
| 50°   | 1330.7 | 1277.0 | 1240.4 | 1230.0 | 1286.2 | 1398.7 | 1325.0 | 1294.7 | 1358.5 | 1668.9 | 1661.9 |
| 52.5° | 1496.6 | 1429.6 | 1368.5 | 1367.9 | 1449.2 | 1522.2 | 1574.0 | 1521.8 | 1545.3 | 1845.3 | 1865.4 |
| 55°   | 1641.3 | 1563.8 | 1508.9 | 1539.2 | 1655.0 | 1699.7 | 1875.9 | 1835.1 | 1815.3 | 2023.4 | 2080.8 |
| 57.5° | 1695.4 | 1604.8 | 1569.0 | 1613.7 | 1784.4 | 2014.0 | 2200.2 | 2092.8 | 2073.6 | 2224.8 | 2345.2 |
| 60°   | 1576.7 | 1481.0 | 1483.2 | 1567.3 | 1863.0 | 2244.8 | 2554.8 | 2463.6 | 2350.9 | 2475.7 | 2593.2 |
| 62.5° | 1238.7 | 1152.2 | 1208.6 | 1336.6 | 1797.1 | 2469.0 | 3030.1 | 3068.6 | 2667.6 | 2683.7 | 2730.7 |
| 65°   | 841.9  | 782.0  | 832.9  | 958.2  | 1457.6 | 2591.3 | 3482.8 | 3637.1 | 2956.1 | 2819.9 | 2790.1 |
| 67.5° | 554.1  | 511.7  | 521.6  | 604.9  | 1003.4 | 2209.1 | 3785.5 | 3953.7 | 3219.9 | 2931.7 | 2685.4 |
| 70°   | 429.1  | 394.9  | 390.6  | 434.3  | 595.1  | 1534.7 | 3606.1 | 3861.8 | 3380.5 | 2826.9 | 2340.6 |
| 72.5° | 336.7  | 310.8  | 313.1  | 355.1  | 460.9  | 851.4  | 2790.5 | 3284.0 | 3138.5 | 2438.0 | 1798.3 |
| 75°   | 262.6  | 241.3  | 253.2  | 301.2  | 426.2  | 529.1  | 1925.3 | 2492.4 | 2426.5 | 1805.3 | 1025.7 |
| 77.5° | 190.6  | 176.9  | 193.8  | 256.5  | 400.6  | 454.0  | 1198.5 | 1738.9 | 1554.5 | 926.9  | 351.9  |
| 80°   | 125.0  | 117.3  | 131.2  | 209.2  | 363.3  | 436.9  | 740.7  | 1065.5 | 768.1  | 260.4  | 133.2  |
| 82.5° | 73.6   | 70.3   | 81.8   | 141.6  | 292.0  | 409.5  | 494.0  | 592.1  | 314.3  | 110.1  | 70.8   |
| 85°   | 38.7   | 36.1   | 48.5   | 81.3   | 201.3  | 373.8  | 388.9  | 354.4  | 151.8  | 47.9   | 33.8   |
| 87.5° | 12.9   | 12.6   | 20.6   | 31.5   | 76.1   | 198.5  | 207.5  | 168.3  | 62.6   | 13.9   | 7.4    |
| 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°    | 373.7  | 373.7  | 373.7 | 373.7 | 373.7 | 373.7 | 373.7 | 373.7 | 373.7 | 373.7 | 373.7 |
| 2.5°  | 454.3  | 447.6  | 409.2 | 414.5 | 419.5 | 417.0 | 415.5 | 398.1 | 396.4 | 421.2 | 419.2 |
| 5°    | 572.5  | 544.7  | 511.9 | 510.4 | 488.8 | 466.7 | 471.1 | 464.0 | 466.1 | 476.3 | 477.3 |
| 7.5°  | 634.9  | 600.3  | 569.0 | 518.1 | 474.9 | 439.9 | 445.5 | 443.8 | 439.3 | 462.4 | 468.6 |
| 10°   | 633.7  | 602.9  | 567.6 | 506.0 | 476.9 | 448.5 | 414.3 | 382.0 | 372.5 | 361.1 | 362.1 |
| 12.5° | 675.6  | 648.3  | 571.3 | 508.6 | 469.1 | 420.0 | 356.1 | 320.8 | 287.0 | 286.3 | 277.8 |
| 15°   | 688.6  | 668.5  | 579.2 | 494.2 | 414.0 | 343.7 | 277.6 | 239.3 | 214.9 | 210.0 | 202.8 |
| 17.5° | 721.6  | 690.1  | 555.2 | 447.6 | 350.1 | 268.8 | 208.7 | 181.9 | 179.9 | 183.2 | 179.6 |
| 20°   | 723.8  | 672.7  | 512.1 | 378.9 | 281.3 | 203.7 | 170.2 | 156.8 | 164.0 | 172.2 | 171.9 |
| 22.5° | 721.9  | 650.8  | 474.8 | 320.3 | 211.4 | 163.7 | 149.1 | 146.1 | 152.8 | 165.0 | 166.5 |
| 25°   | 703.2  | 643.6  | 428.1 | 263.1 | 171.5 | 140.2 | 136.2 | 138.1 | 146.4 | 160.8 | 160.8 |
| 27.5° | 722.8  | 614.3  | 369.5 | 214.0 | 144.3 | 124.8 | 127.7 | 132.4 | 138.6 | 155.0 | 158.0 |
| 30°   | 716.4  | 624.0  | 322.3 | 172.4 | 127.2 | 114.1 | 120.5 | 125.2 | 132.2 | 149.3 | 150.8 |
| 32.5° | 733.5  | 598.1  | 282.6 | 144.9 | 116.0 | 109.9 | 111.5 | 117.8 | 127.0 | 140.4 | 143.1 |
| 35°   | 759.6  | 607.6  | 237.1 | 130.4 | 110.4 | 105.1 | 107.9 | 113.0 | 122.2 | 135.2 | 137.4 |
| 37.5° | 842.9  | 607.1  | 205.7 | 122.3 | 109.4 | 104.1 | 105.4 | 108.9 | 119.7 | 131.5 | 136.6 |
| 40°   | 896.5  | 641.9  | 177.1 | 120.5 | 108.3 | 103.6 | 102.4 | 106.3 | 114.8 | 128.9 | 132.4 |
| 42.5° | 997.0  | 663.2  | 164.7 | 119.8 | 108.1 | 100.7 | 99.6  | 104.1 | 112.5 | 125.5 | 130.9 |
| 45°   | 1103.3 | 693.5  | 154.8 | 119.5 | 107.6 | 100.2 | 96.7  | 102.4 | 109.4 | 122.0 | 128.2 |
| 47.5° | 1228.3 | 757.6  | 149.3 | 118.3 | 106.6 | 100.9 | 95.7  | 98.6  | 106.4 | 119.0 | 125.2 |
| 50°   | 1392.0 | 842.4  | 150.4 | 116.6 | 108.1 | 101.1 | 94.2  | 95.6  | 102.7 | 115.0 | 121.3 |
| 52.5° | 1590.9 | 973.8  | 158.0 | 117.3 | 109.1 | 100.2 | 93.5  | 92.9  | 99.1  | 109.8 | 116.1 |
| 55°   | 1830.7 | 1160.2 | 180.6 | 120.5 | 109.1 | 100.1 | 92.5  | 89.5  | 94.2  | 102.9 | 109.1 |
| 57.5° | 2120.1 | 1376.1 | 224.7 | 122.0 | 108.3 | 99.1  | 90.4  | 85.0  | 87.9  | 95.1  | 100.9 |
| 60°   | 2368.6 | 1550.3 | 270.3 | 123.0 | 109.9 | 96.7  | 86.0  | 79.3  | 81.2  | 86.7  | 91.9  |
| 62.5° | 2495.3 | 1599.1 | 284.0 | 122.2 | 114.5 | 95.2  | 80.8  | 73.3  | 73.5  | 78.1  | 82.8  |
| 65°   | 2519.0 | 1534.0 | 228.9 | 121.3 | 120.3 | 95.1  | 77.1  | 68.1  | 66.9  | 70.3  | 74.3  |
| 67.5° | 2349.7 | 1331.6 | 165.2 | 119.5 | 121.0 | 94.0  | 74.6  | 63.9  | 60.9  | 63.3  | 66.6  |
| 70°   | 1995.1 | 1072.3 | 138.7 | 115.8 | 113.0 | 89.0  | 70.3  | 59.6  | 55.6  | 57.2  | 59.7  |
| 72.5° | 1487.4 | 793.4  | 121.0 | 107.9 | 98.4  | 76.1  | 63.6  | 54.7  | 50.5  | 51.7  | 53.6  |
| 75°   | 826.3  | 423.2  | 101.2 | 93.9  | 80.3  | 61.6  | 54.2  | 48.5  | 44.8  | 45.4  | 47.4  |
| 77.5° | 274.4  | 156.1  | 74.3  | 74.5  | 60.7  | 47.5  | 44.7  | 41.5  | 38.7  | 38.8  | 40.5  |
| 80°   | 124.3  | 86.3   | 53.2  | 53.6  | 42.3  | 34.5  | 34.3  | 33.3  | 31.5  | 31.0  | 32.1  |
| 82.5° | 72.1   | 52.4   | 36.5  | 34.8  | 27.3  | 22.4  | 24.9  | 24.4  | 23.9  | 22.1  | 22.4  |
| 85°   | 35.5   | 28.1   | 19.1  | 18.1  | 15.1  | 11.2  | 13.4  | 13.9  | 13.4  | 11.4  | 11.2  |
| 87.5° | 8.7    | 9.2    | 4.7   | 4.4   | 2.5   | 1.2   | 2.0   | 2.0   | 2.5   | 1.7   | 0.8   |
| 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)