

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: P597986

Luminaire Tested: **PMM-SA2A-827-U-T2**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P597986  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-8)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA2A-827-U-T2  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5828 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

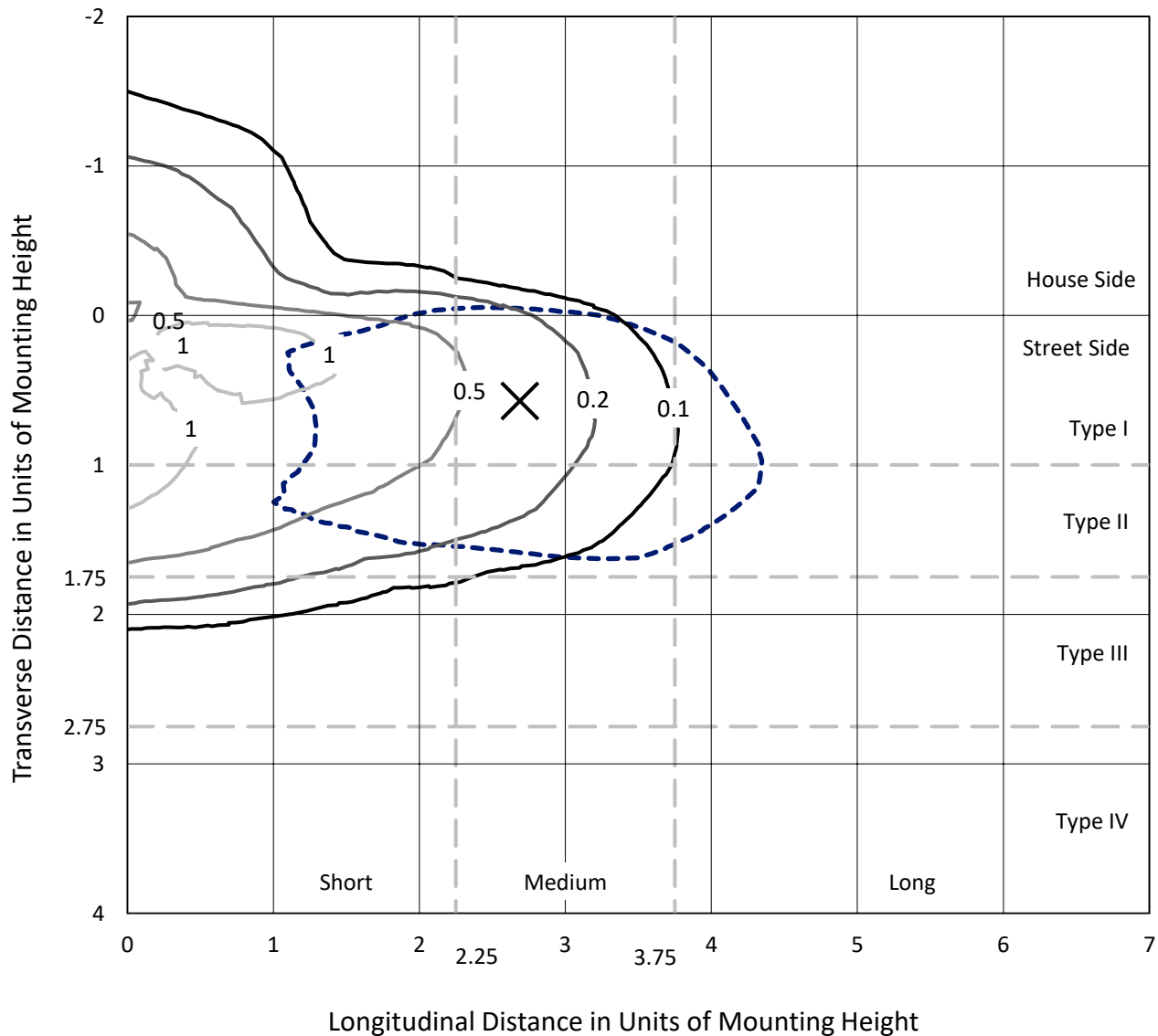
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

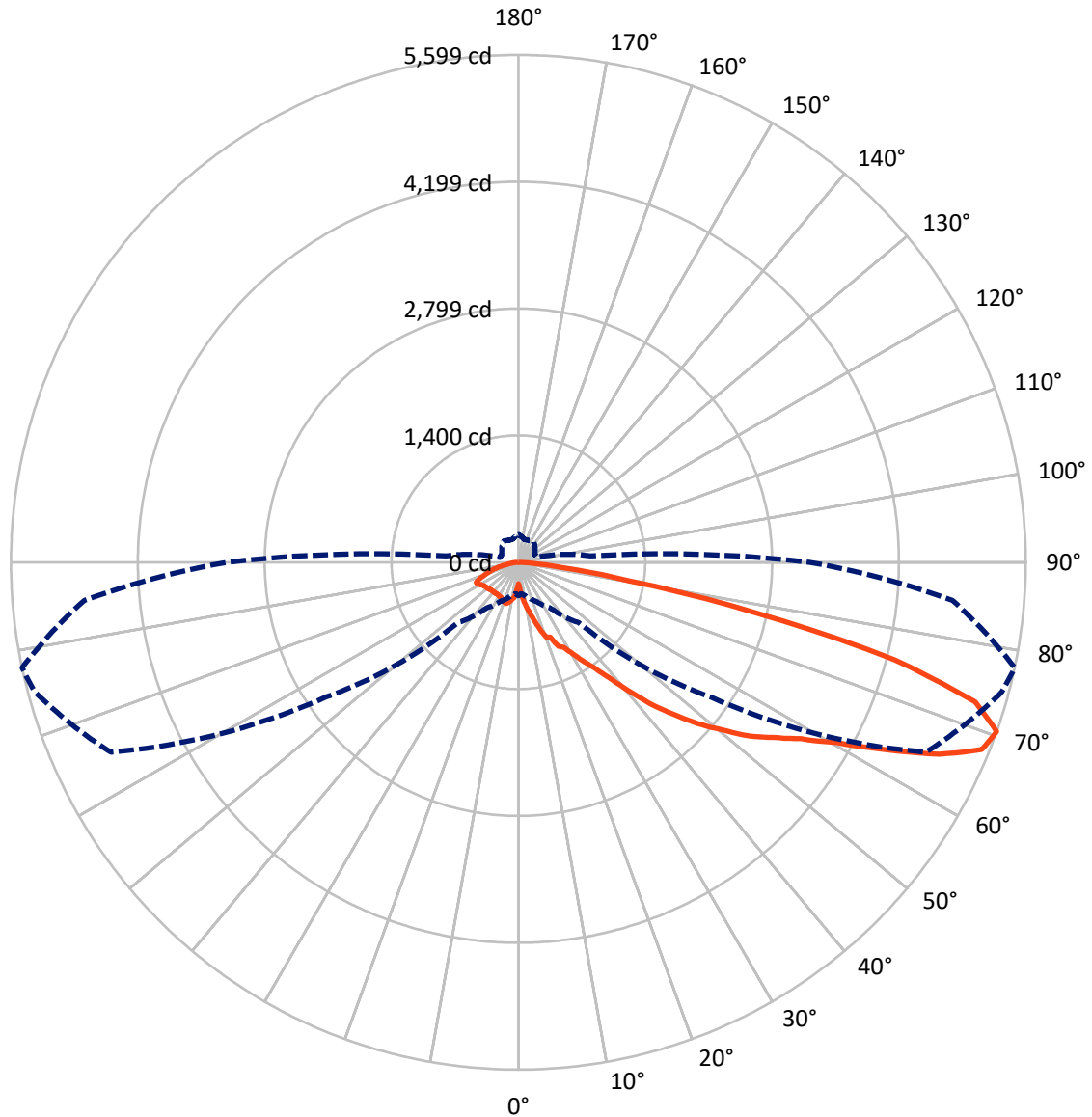
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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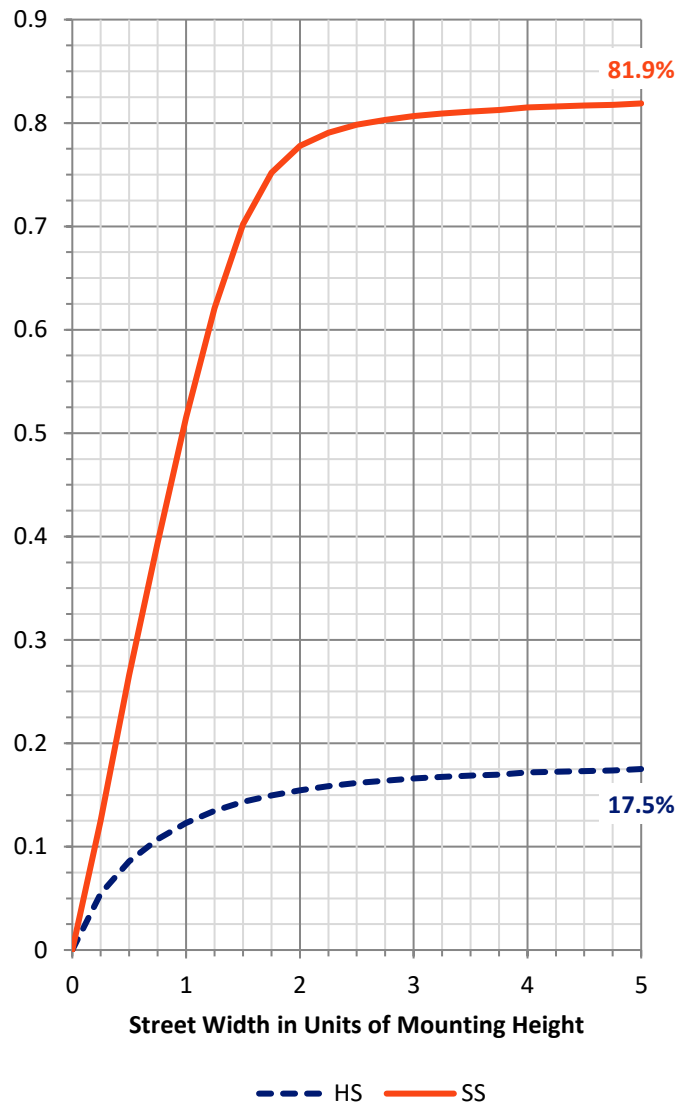
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1040.2   | 0.0    | 1040.2 |
|                    | % Fixture | 17.8     | 0.0    | 17.8   |
| <b>Street Side</b> | Lumens    | 4787.8   | 0.0    | 4787.8 |
|                    | % Fixture | 82.2     | 0.0    | 82.2   |
| <b>Total</b>       | Lumens    | 5828.0   | 0.0    | 5828.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 36.7   | 0.6       |
| 10°-20°   | 161.8  | 2.8       |
| 20°-30°   | 311.4  | 5.3       |
| 30°-40°   | 524.5  | 9.0       |
| 40°-50°   | 907.6  | 15.6      |
| 50°-60°   | 1370.3 | 23.5      |
| 60°-70°   | 1517.8 | 26.0      |
| 70°-80°   | 875.1  | 15.0      |
| 80°-90°   | 122.7  | 2.1       |
| 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°    | 5828.0 | 100.0     |
| 0°-180°   | 5828.0 | 100.0     |

**Coefficient of Utilization**



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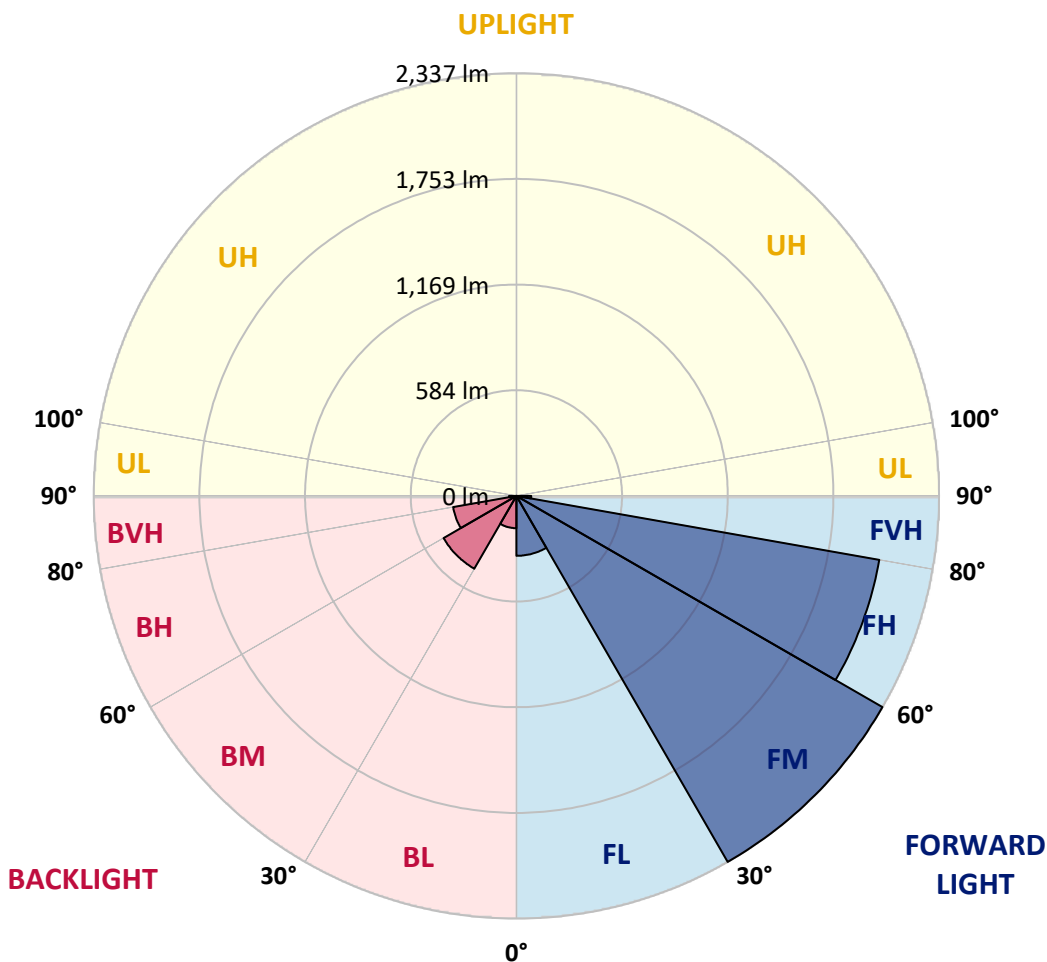
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 331.3  | 5.7       |                         |      |         |
| FM (30°-60°)   | 2337.2 | 40.1      |                         |      |         |
| FH (60°-80°)   | 2037.4 | 35.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 81.9   | 1.4       |                         |      | G1/100  |
| BL (0°-30°)    | 178.6  | 3.1       | B1/500                  |      |         |
| BM (30°-60°)   | 465.3  | 8.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 355.5  | 6.1       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 40.9   | 0.7       |                         |      | 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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 78°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 237.6  | 237.6  | 237.6  | 237.6  | 237.6  | 237.6  | 237.6  | 237.6  | 237.6  | 237.6  | 237.6  |
| 2.5°  | 305.9  | 294.9  | 278.4  | 285.2  | 293.5  | 294.5  | 291.8  | 276.7  | 271.6  | 283.0  | 286.4  |
| 5°    | 428.6  | 410.1  | 398.9  | 395.3  | 382.9  | 357.1  | 375.6  | 366.1  | 368.1  | 362.5  | 373.4  |
| 7.5°  | 531.8  | 519.4  | 502.9  | 498.3  | 469.9  | 449.7  | 462.3  | 458.2  | 438.3  | 430.5  | 442.9  |
| 10°   | 584.3  | 570.7  | 571.4  | 561.5  | 553.9  | 555.9  | 549.6  | 531.3  | 516.5  | 506.1  | 476.2  |
| 12.5° | 615.9  | 619.3  | 637.5  | 632.4  | 660.8  | 684.2  | 666.4  | 639.5  | 592.6  | 583.1  | 553.5  |
| 15°   | 691.0  | 703.6  | 686.6  | 694.4  | 706.5  | 751.2  | 743.9  | 738.1  | 688.5  | 670.1  | 615.4  |
| 17.5° | 768.2  | 770.7  | 744.9  | 740.8  | 769.9  | 792.5  | 820.9  | 788.1  | 794.2  | 781.3  | 692.9  |
| 20°   | 784.7  | 801.5  | 764.6  | 739.1  | 799.1  | 843.8  | 879.0  | 844.3  | 876.3  | 879.7  | 756.8  |
| 22.5° | 845.2  | 825.1  | 776.5  | 751.5  | 803.9  | 858.8  | 916.2  | 935.6  | 925.4  | 896.7  | 818.5  |
| 25°   | 887.3  | 876.6  | 827.0  | 799.3  | 819.2  | 869.8  | 970.4  | 1021.1 | 1030.1 | 1026.2 | 877.3  |
| 27.5° | 965.3  | 970.6  | 868.6  | 876.3  | 848.6  | 853.3  | 1002.9 | 1134.6 | 1078.5 | 1062.9 | 950.2  |
| 30°   | 1088.4 | 1064.6 | 950.2  | 956.5  | 910.6  | 902.8  | 1071.7 | 1232.5 | 1182.2 | 1163.5 | 1010.2 |
| 32.5° | 1217.0 | 1219.1 | 1080.2 | 1026.2 | 1001.7 | 993.9  | 1058.1 | 1283.8 | 1313.4 | 1289.1 | 1100.8 |
| 35°   | 1398.2 | 1385.6 | 1221.1 | 1150.2 | 1061.5 | 1047.9 | 1155.0 | 1432.5 | 1486.9 | 1418.9 | 1208.5 |
| 37.5° | 1674.2 | 1636.1 | 1444.6 | 1280.6 | 1215.0 | 1199.5 | 1293.5 | 1565.8 | 1688.3 | 1603.7 | 1384.4 |
| 40°   | 1895.8 | 1818.3 | 1644.3 | 1444.6 | 1333.6 | 1352.8 | 1391.9 | 1727.7 | 1897.2 | 1849.6 | 1547.1 |
| 42.5° | 2072.4 | 2003.7 | 1785.7 | 1645.3 | 1494.4 | 1470.6 | 1513.4 | 1928.1 | 2181.5 | 2134.8 | 1750.2 |
| 45°   | 2241.7 | 2101.8 | 1944.6 | 1818.3 | 1673.2 | 1702.1 | 1695.8 | 2132.7 | 2530.1 | 2386.5 | 1929.8 |
| 47.5° | 2408.9 | 2277.5 | 2113.0 | 1943.2 | 1797.1 | 1977.2 | 1909.9 | 2284.8 | 2765.3 | 2658.9 | 2118.8 |
| 50°   | 2623.7 | 2479.1 | 2291.8 | 2121.0 | 2033.5 | 2165.2 | 2052.2 | 2413.5 | 3028.7 | 2903.8 | 2297.1 |
| 52.5° | 2766.3 | 2625.6 | 2461.4 | 2339.4 | 2331.4 | 2280.6 | 2251.7 | 2576.5 | 3259.5 | 3183.7 | 2486.2 |
| 55°   | 2749.5 | 2614.0 | 2539.6 | 2553.0 | 2652.1 | 2480.8 | 2457.2 | 2817.8 | 3500.3 | 3412.5 | 2690.2 |
| 57.5° | 2539.4 | 2391.4 | 2407.2 | 2486.4 | 2752.7 | 2832.4 | 2792.3 | 3075.6 | 3715.0 | 3675.2 | 2942.7 |
| 60°   | 1978.1 | 1902.1 | 2030.6 | 2175.4 | 2618.1 | 2935.4 | 3217.2 | 3390.0 | 3979.4 | 4043.0 | 3339.2 |
| 62.5° | 1285.0 | 1183.4 | 1386.5 | 1632.4 | 2216.5 | 2867.4 | 3649.9 | 3986.2 | 4412.3 | 4556.9 | 3941.7 |
| 65°   | 665.7  | 649.4  | 791.5  | 1017.5 | 1543.0 | 2444.9 | 3802.5 | 4611.5 | 4938.6 | 5106.9 | 4517.3 |
| 67.5° | 484.0  | 453.8  | 519.7  | 652.6  | 941.9  | 1667.2 | 3513.4 | 5089.9 | 5361.1 | 5515.3 | 4851.8 |
| 70°   | 368.6  | 346.2  | 396.5  | 478.9  | 615.2  | 941.7  | 2593.5 | 4959.4 | 5524.1 | 5598.9 | 4807.4 |
| 72.5° | 276.0  | 256.8  | 300.8  | 377.6  | 474.0  | 530.1  | 1533.0 | 4077.8 | 5245.9 | 5271.4 | 4314.6 |
| 75°   | 220.4  | 205.5  | 224.5  | 298.1  | 386.3  | 360.8  | 814.4  | 2954.3 | 4262.2 | 4284.0 | 3295.7 |
| 77.5° | 180.8  | 168.1  | 175.9  | 223.5  | 300.5  | 271.4  | 404.0  | 1879.3 | 2706.0 | 2672.5 | 1854.2 |
| 80°   | 147.5  | 136.5  | 140.2  | 161.6  | 228.9  | 202.6  | 226.9  | 980.3  | 1290.8 | 1238.8 | 771.1  |
| 82.5° | 113.5  | 104.2  | 111.5  | 118.8  | 165.7  | 145.5  | 132.4  | 446.1  | 528.7  | 492.5  | 282.8  |
| 85°   | 76.0   | 67.5   | 96.9   | 89.2   | 108.4  | 89.4   | 72.4   | 177.6  | 197.0  | 183.7  | 99.4   |
| 87.5° | 20.9   | 19.7   | 32.6   | 44.5   | 44.5   | 33.8   | 26.5   | 43.0   | 54.9   | 48.1   | 23.3   |
| 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°    | 237.6  | 237.6  | 237.6 | 237.6 | 237.6 | 237.6 | 237.6 | 237.6 | 237.6 | 237.6 | 237.6 |
| 2.5°  | 287.9  | 282.6  | 268.5 | 267.3 | 270.7 | 271.1 | 269.0 | 263.8 | 261.2 | 275.8 | 273.6 |
| 5°    | 370.7  | 351.8  | 340.4 | 329.9 | 315.4 | 304.9 | 307.6 | 314.9 | 317.3 | 328.2 | 329.4 |
| 7.5°  | 435.1  | 410.1  | 385.1 | 351.6 | 329.4 | 315.4 | 326.0 | 333.8 | 339.9 | 355.4 | 361.8 |
| 10°   | 463.1  | 435.9  | 400.4 | 365.2 | 359.1 | 361.5 | 355.4 | 357.4 | 366.9 | 367.6 | 370.7 |
| 12.5° | 515.1  | 484.2  | 420.3 | 388.5 | 386.8 | 391.9 | 389.7 | 398.7 | 405.2 | 423.0 | 415.5 |
| 15°   | 564.9  | 525.5  | 435.4 | 402.8 | 395.8 | 406.0 | 417.9 | 432.9 | 447.0 | 463.8 | 455.3 |
| 17.5° | 625.4  | 566.1  | 436.1 | 396.3 | 397.5 | 419.3 | 431.7 | 440.0 | 482.0 | 505.1 | 493.4 |
| 20°   | 663.5  | 570.2  | 419.8 | 380.0 | 397.5 | 417.2 | 434.4 | 443.4 | 490.5 | 525.3 | 533.3 |
| 22.5° | 698.0  | 571.7  | 407.2 | 371.2 | 382.4 | 408.4 | 434.4 | 454.3 | 484.5 | 517.7 | 519.0 |
| 25°   | 717.0  | 570.5  | 390.9 | 372.0 | 382.2 | 395.0 | 418.1 | 436.3 | 458.7 | 505.1 | 506.3 |
| 27.5° | 765.6  | 554.7  | 374.9 | 374.9 | 380.2 | 380.7 | 410.1 | 420.8 | 424.0 | 466.2 | 473.8 |
| 30°   | 779.6  | 558.1  | 372.9 | 374.4 | 377.1 | 372.2 | 385.1 | 392.1 | 396.7 | 433.2 | 434.4 |
| 32.5° | 802.2  | 530.9  | 378.8 | 370.0 | 366.6 | 365.9 | 369.0 | 375.4 | 377.3 | 399.7 | 403.8 |
| 35°   | 829.7  | 519.9  | 380.7 | 368.8 | 362.0 | 358.4 | 367.8 | 360.1 | 366.1 | 392.4 | 395.3 |
| 37.5° | 919.1  | 504.9  | 390.7 | 368.8 | 360.1 | 355.9 | 351.3 | 355.0 | 376.6 | 401.8 | 417.4 |
| 40°   | 976.2  | 509.5  | 388.2 | 372.5 | 353.5 | 349.6 | 341.8 | 355.2 | 388.7 | 433.4 | 445.1 |
| 42.5° | 1076.3 | 512.1  | 391.2 | 370.7 | 355.7 | 340.6 | 345.7 | 360.3 | 395.5 | 421.0 | 439.0 |
| 45°   | 1179.8 | 520.4  | 389.2 | 365.6 | 350.8 | 357.9 | 350.8 | 363.9 | 380.7 | 381.4 | 395.0 |
| 47.5° | 1281.3 | 553.7  | 385.1 | 355.2 | 349.6 | 368.1 | 350.1 | 352.3 | 353.5 | 357.9 | 373.9 |
| 50°   | 1400.6 | 589.2  | 379.3 | 340.6 | 351.3 | 368.6 | 352.8 | 342.1 | 340.9 | 355.2 | 373.2 |
| 52.5° | 1536.2 | 629.3  | 371.7 | 326.5 | 341.4 | 363.9 | 362.0 | 342.8 | 332.4 | 346.2 | 364.2 |
| 55°   | 1695.8 | 674.9  | 363.0 | 312.4 | 330.4 | 364.4 | 367.1 | 337.7 | 332.6 | 347.7 | 366.9 |
| 57.5° | 1907.9 | 741.0  | 346.0 | 292.0 | 317.1 | 356.9 | 354.0 | 331.9 | 327.0 | 343.1 | 363.0 |
| 60°   | 2269.9 | 868.1  | 321.7 | 271.9 | 302.7 | 338.4 | 343.3 | 321.4 | 316.6 | 334.3 | 355.2 |
| 62.5° | 2754.6 | 1020.9 | 292.3 | 252.2 | 285.2 | 318.5 | 329.9 | 306.4 | 305.9 | 328.5 | 350.3 |
| 65°   | 3205.8 | 1107.6 | 261.9 | 234.2 | 267.3 | 300.0 | 314.9 | 292.3 | 293.2 | 321.7 | 343.5 |
| 67.5° | 3393.4 | 1005.6 | 234.7 | 218.2 | 246.6 | 278.9 | 302.5 | 281.3 | 278.2 | 312.4 | 332.6 |
| 70°   | 3217.2 | 798.8  | 211.1 | 201.2 | 223.3 | 256.1 | 285.2 | 266.8 | 259.5 | 290.6 | 306.4 |
| 72.5° | 2846.7 | 665.9  | 189.0 | 181.2 | 202.9 | 232.0 | 261.9 | 247.1 | 237.6 | 261.4 | 275.5 |
| 75°   | 2225.2 | 546.4  | 163.8 | 161.6 | 179.5 | 210.2 | 237.6 | 227.4 | 215.3 | 230.3 | 244.4 |
| 77.5° | 1267.0 | 345.7  | 137.5 | 139.0 | 151.8 | 184.2 | 208.5 | 200.4 | 188.0 | 194.4 | 210.6 |
| 80°   | 507.0  | 174.4  | 110.5 | 111.5 | 122.4 | 151.4 | 172.7 | 169.8 | 156.9 | 162.1 | 173.2 |
| 82.5° | 189.5  | 95.7   | 81.6  | 82.1  | 93.1  | 119.8 | 147.5 | 146.0 | 133.9 | 130.2 | 136.5 |
| 85°   | 75.3   | 47.4   | 50.0  | 52.2  | 62.7  | 86.2  | 118.3 | 105.0 | 90.6  | 79.4  | 83.3  |
| 87.5° | 18.0   | 15.1   | 17.5  | 18.5  | 20.4  | 27.0  | 43.2  | 34.7  | 35.7  | 28.7  | 21.4  |
| 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)