

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: P367672

Luminaire Tested: **PMM-SA3A-727-U-T3**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P367672  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA3A-727-U-T3  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9796 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

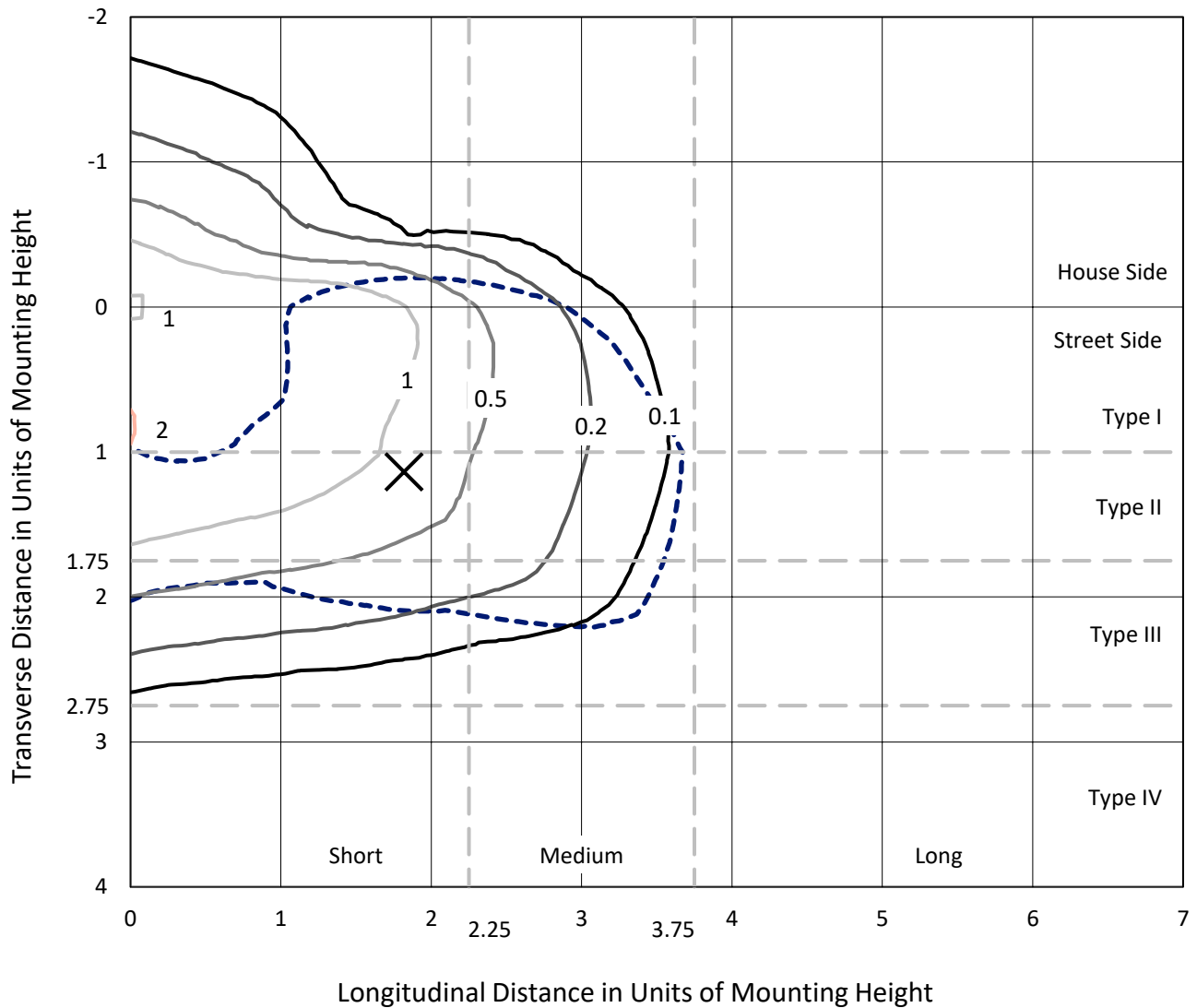
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

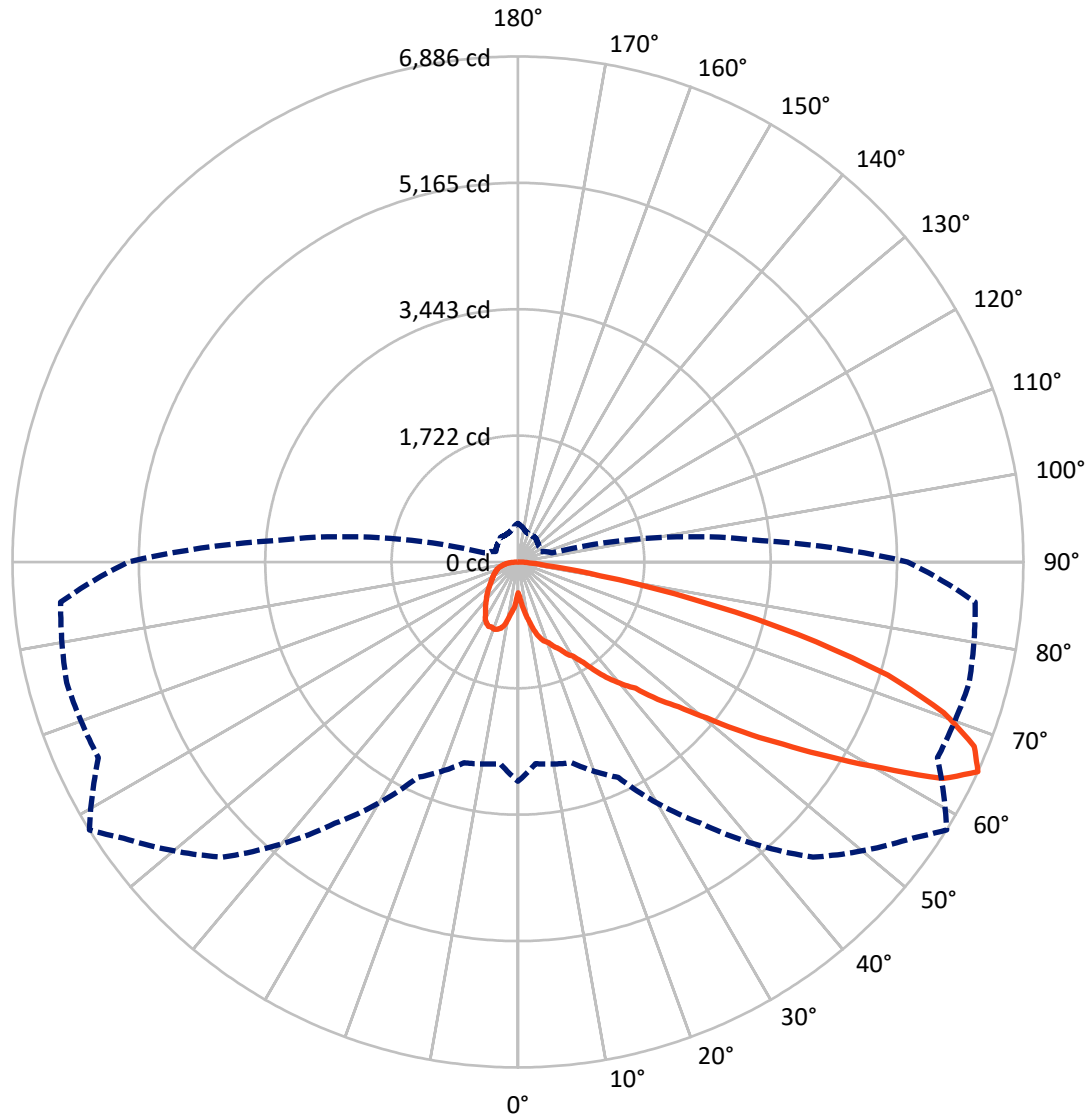
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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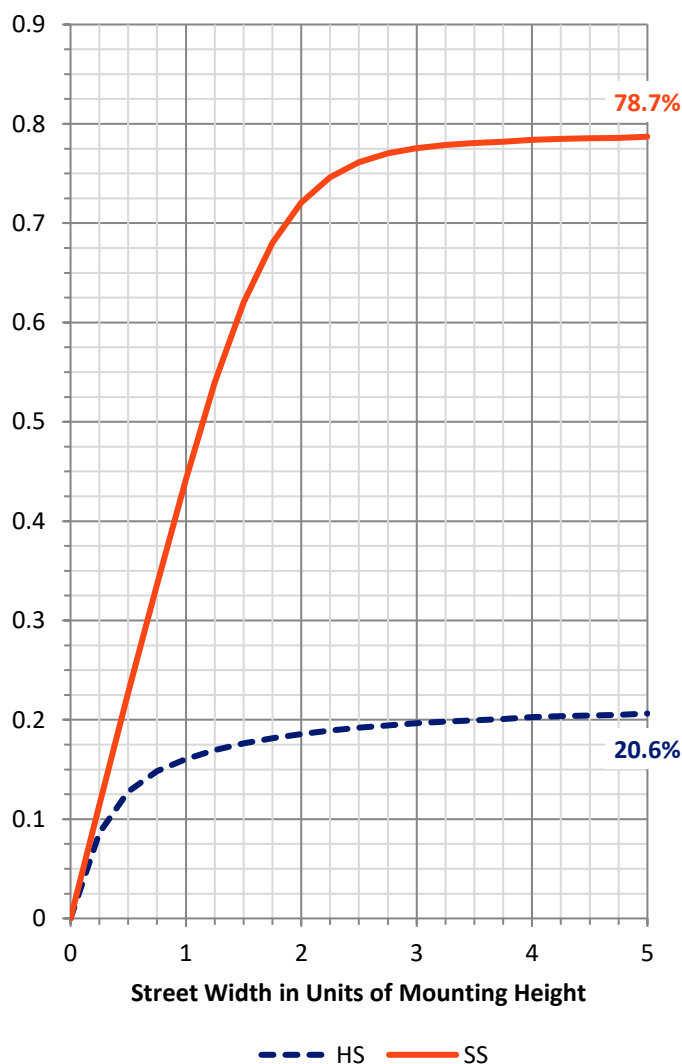
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2063.3   | 0.0    | 2063.3 |
|                    | % Fixture | 21.1     | 0.0    | 21.1   |
| <b>Street Side</b> | Lumens    | 7732.7   | 0.0    | 7732.7 |
|                    | % Fixture | 78.9     | 0.0    | 78.9   |
| <b>Total</b>       | Lumens    | 9796.0   | 0.0    | 9796.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 64.1   | 0.7       |
| 10°-20°   | 279.6  | 2.9       |
| 20°-30°   | 536.4  | 5.5       |
| 30°-40°   | 885.6  | 9.0       |
| 40°-50°   | 1472.1 | 15.0      |
| 50°-60°   | 2431.1 | 24.8      |
| 60°-70°   | 2727.2 | 27.8      |
| 70°-80°   | 1240.0 | 12.7      |
| 80°-90°   | 159.9  | 1.6       |
| 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°    | 9796.0 | 100.0     |
| 0°-180°   | 9796.0 | 100.0     |

**Coefficient of Utilization**



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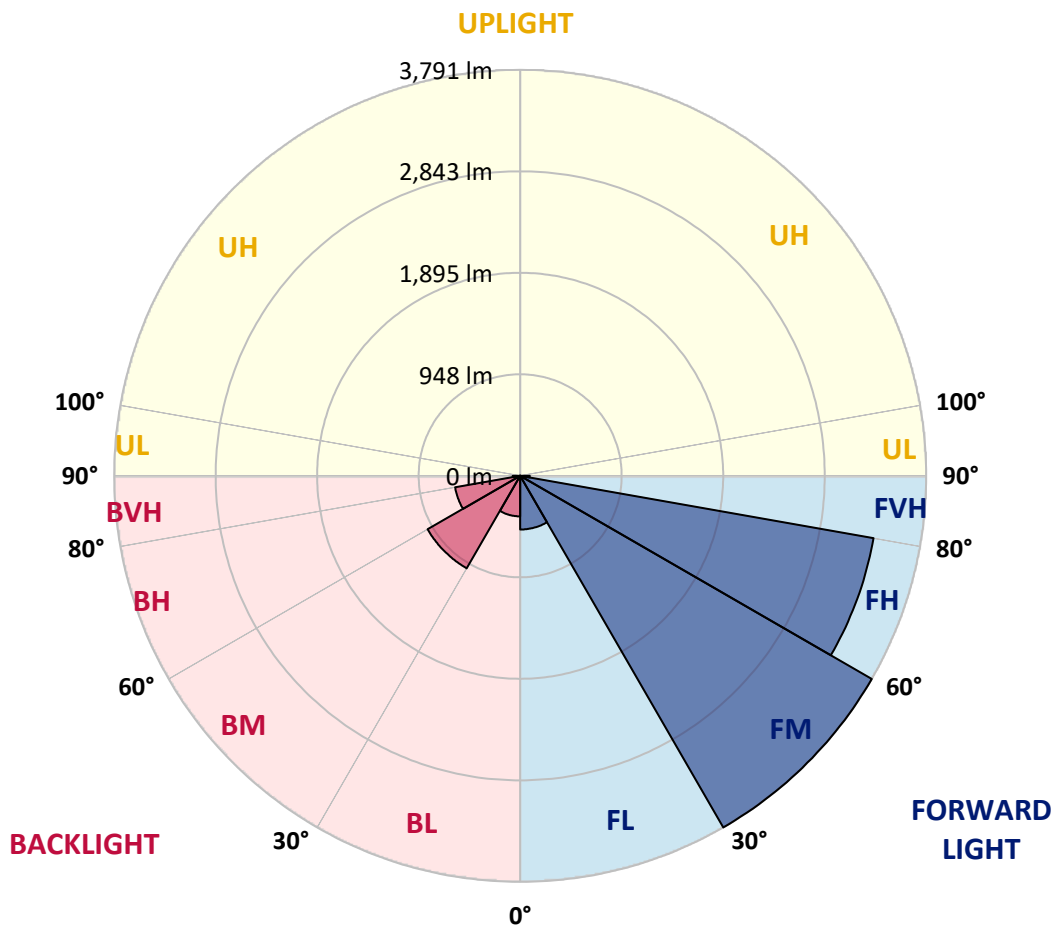
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 501.3  | 5.1       |                         |      |         |
| FM   | (30°-60°)   | 3790.9 | 38.7      |                         |      |         |
| FH   | (60°-80°)   | 3350.4 | 34.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 90.1   | 0.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 378.8  | 3.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 997.9  | 10.2      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 616.8  | 6.3       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 69.9   | 0.7       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 420.6  | 420.6  | 420.6  | 420.6  | 420.6  | 420.6  | 420.6  | 420.6  | 420.6  | 420.6  | 420.6  |
| 2.5°  | 502.2  | 487.1  | 461.8  | 467.9  | 482.6  | 490.8  | 485.9  | 479.3  | 470.8  | 469.1  | 506.7  |
| 5°    | 650.3  | 621.3  | 609.5  | 604.6  | 586.6  | 576.0  | 594.4  | 591.9  | 601.7  | 619.7  | 656.4  |
| 7.5°  | 758.4  | 738.0  | 718.4  | 716.4  | 681.7  | 669.4  | 693.9  | 707.0  | 724.5  | 724.9  | 774.7  |
| 10°   | 816.3  | 798.8  | 798.4  | 780.0  | 777.1  | 800.4  | 800.8  | 810.6  | 812.6  | 833.4  | 823.6  |
| 12.5° | 879.1  | 877.9  | 900.3  | 899.9  | 926.0  | 964.4  | 945.2  | 945.2  | 950.9  | 925.6  | 956.6  |
| 15°   | 1028.8 | 1041.9 | 999.9  | 1006.8 | 1006.8 | 1044.3 | 1043.1 | 1050.5 | 1068.0 | 1061.5 | 1047.6 |
| 17.5° | 1184.7 | 1192.8 | 1146.3 | 1103.1 | 1106.4 | 1098.2 | 1127.6 | 1130.4 | 1113.7 | 1189.6 | 1172.9 |
| 20°   | 1285.0 | 1316.9 | 1219.0 | 1164.7 | 1175.3 | 1184.7 | 1185.9 | 1168.4 | 1159.8 | 1276.5 | 1253.6 |
| 22.5° | 1409.1 | 1382.1 | 1292.4 | 1232.4 | 1248.3 | 1235.7 | 1233.2 | 1246.7 | 1258.5 | 1302.6 | 1339.7 |
| 25°   | 1491.9 | 1489.8 | 1382.1 | 1316.5 | 1298.9 | 1295.2 | 1320.1 | 1314.8 | 1343.0 | 1422.9 | 1399.7 |
| 27.5° | 1612.2 | 1649.7 | 1458.8 | 1475.1 | 1398.0 | 1316.9 | 1396.8 | 1420.9 | 1471.5 | 1458.4 | 1510.2 |
| 30°   | 1845.6 | 1817.4 | 1617.9 | 1613.4 | 1526.1 | 1458.0 | 1513.5 | 1493.1 | 1584.1 | 1581.2 | 1619.6 |
| 32.5° | 2036.1 | 2055.7 | 1804.8 | 1757.9 | 1693.0 | 1611.0 | 1574.3 | 1631.0 | 1679.9 | 1760.3 | 1781.9 |
| 35°   | 2237.6 | 2233.1 | 1996.1 | 1901.5 | 1794.2 | 1760.3 | 1805.6 | 1829.2 | 1933.3 | 2007.1 | 1955.7 |
| 37.5° | 2550.9 | 2515.4 | 2244.1 | 2065.0 | 1984.7 | 1972.4 | 2049.9 | 2015.7 | 2128.3 | 2145.8 | 2174.8 |
| 40°   | 2842.2 | 2735.3 | 2470.9 | 2265.7 | 2138.1 | 2183.8 | 2186.2 | 2190.7 | 2251.1 | 2298.8 | 2442.0 |
| 42.5° | 3119.2 | 3044.1 | 2701.4 | 2547.2 | 2359.2 | 2314.7 | 2342.4 | 2351.8 | 2504.4 | 2601.9 | 2800.2 |
| 45°   | 3497.8 | 3296.6 | 3032.7 | 2874.4 | 2663.9 | 2607.2 | 2587.6 | 2668.4 | 2815.7 | 3037.6 | 3207.7 |
| 47.5° | 3818.0 | 3636.5 | 3384.8 | 3176.3 | 2940.9 | 3102.9 | 2991.9 | 2946.6 | 3144.5 | 3419.4 | 3690.3 |
| 50°   | 4083.6 | 3883.7 | 3636.9 | 3516.5 | 3479.0 | 3623.4 | 3335.4 | 3340.7 | 3521.8 | 3909.8 | 4220.2 |
| 52.5° | 4289.2 | 4075.8 | 3857.2 | 3796.0 | 4005.7 | 4088.9 | 3880.8 | 3849.4 | 3981.6 | 4440.1 | 4813.0 |
| 55°   | 4481.3 | 4254.9 | 4086.0 | 4210.9 | 4564.1 | 4573.5 | 4558.8 | 4384.6 | 4543.7 | 5008.4 | 5426.5 |
| 57.5° | 4530.7 | 4286.7 | 4174.5 | 4353.6 | 4831.3 | 5203.0 | 5349.0 | 5007.2 | 5169.1 | 5525.3 | 5952.0 |
| 60°   | 4276.5 | 4067.7 | 4022.8 | 4265.9 | 4975.8 | 5519.1 | 5900.6 | 5696.2 | 5635.4 | 5940.1 | 6319.9 |
| 62.5° | 3756.0 | 3513.7 | 3550.0 | 3887.8 | 4823.6 | 5644.4 | 6336.3 | 6495.8 | 6127.8 | 6270.2 | 6480.7 |
| 65°   | 2989.5 | 2758.1 | 2831.6 | 3237.9 | 4345.9 | 5686.0 | 6559.0 | 6886.2 | 6305.7 | 6363.6 | 6253.0 |
| 67.5° | 2108.3 | 1898.2 | 1990.8 | 2516.2 | 3615.2 | 5153.2 | 6597.4 | 6704.2 | 6116.4 | 6097.2 | 5631.3 |
| 70°   | 1194.5 | 1062.7 | 1163.1 | 1601.2 | 2551.7 | 4105.2 | 6296.7 | 6156.0 | 5777.0 | 5505.3 | 4711.8 |
| 72.5° | 547.9  | 502.6  | 550.7  | 815.1  | 1469.0 | 2731.6 | 5140.6 | 5268.3 | 4977.8 | 4638.0 | 3584.6 |
| 75°   | 291.3  | 275.4  | 295.8  | 407.1  | 687.4  | 1486.2 | 3652.4 | 3939.6 | 3785.0 | 3517.7 | 2338.4 |
| 77.5° | 216.6  | 204.4  | 214.2  | 263.9  | 367.2  | 581.3  | 2075.2 | 2437.5 | 2496.2 | 2250.2 | 1298.5 |
| 80°   | 166.0  | 156.2  | 166.0  | 199.5  | 254.2  | 276.2  | 887.3  | 1136.1 | 1294.0 | 1045.6 | 516.1  |
| 82.5° | 123.2  | 116.7  | 131.8  | 149.7  | 178.7  | 172.6  | 314.9  | 392.0  | 505.4  | 345.5  | 201.1  |
| 85°   | 97.9   | 89.7   | 95.5   | 101.6  | 114.2  | 94.6   | 144.0  | 161.1  | 170.5  | 142.8  | 74.2   |
| 87.5° | 38.3   | 35.5   | 69.4   | 54.7   | 46.5   | 28.6   | 43.2   | 49.0   | 50.2   | 48.1   | 21.6   |
| 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°    | 420.6  | 420.6  | 420.6  | 420.6  | 420.6 | 420.6 | 420.6 | 420.6 | 420.6 | 420.6 | 420.6 |
| 2.5°  | 510.8  | 506.7  | 482.6  | 490.4  | 503.0 | 505.4 | 510.8 | 496.1 | 488.7 | 515.6 | 516.9 |
| 5°    | 659.7  | 637.6  | 626.2  | 627.4  | 619.3 | 606.6 | 625.8 | 638.4 | 643.3 | 663.3 | 670.7 |
| 7.5°  | 775.1  | 748.6  | 729.4  | 707.4  | 676.4 | 656.4 | 689.8 | 714.3 | 727.4 | 769.0 | 785.3 |
| 10°   | 826.5  | 805.3  | 801.2  | 773.5  | 772.7 | 772.2 | 770.6 | 762.0 | 790.2 | 786.1 | 797.5 |
| 12.5° | 932.6  | 928.1  | 889.3  | 878.3  | 879.5 | 878.3 | 844.0 | 842.4 | 842.8 | 880.4 | 866.9 |
| 15°   | 1031.3 | 1032.1 | 996.6  | 956.6  | 920.7 | 909.7 | 896.3 | 890.1 | 899.1 | 920.3 | 907.3 |
| 17.5° | 1153.3 | 1157.4 | 1055.8 | 992.5  | 945.2 | 944.0 | 911.8 | 873.8 | 928.5 | 941.5 | 927.3 |
| 20°   | 1232.0 | 1214.9 | 1090.0 | 984.0  | 970.5 | 933.8 | 893.8 | 841.6 | 888.9 | 920.7 | 929.7 |
| 22.5° | 1306.7 | 1276.9 | 1121.9 | 999.1  | 934.6 | 891.0 | 852.2 | 818.3 | 833.4 | 868.9 | 863.2 |
| 25°   | 1357.2 | 1349.1 | 1165.9 | 1035.4 | 933.4 | 836.3 | 784.1 | 762.5 | 770.2 | 825.3 | 820.0 |
| 27.5° | 1478.0 | 1389.9 | 1158.2 | 1044.8 | 894.2 | 761.6 | 735.5 | 712.3 | 704.5 | 764.1 | 780.4 |
| 30°   | 1558.8 | 1522.5 | 1210.0 | 1030.1 | 844.9 | 700.4 | 662.1 | 657.2 | 659.7 | 727.4 | 731.9 |
| 32.5° | 1695.8 | 1601.6 | 1294.8 | 973.8  | 773.1 | 655.2 | 611.1 | 613.1 | 624.2 | 673.5 | 683.7 |
| 35°   | 1838.6 | 1782.3 | 1306.3 | 933.4  | 714.7 | 607.0 | 589.1 | 574.8 | 580.9 | 624.2 | 626.2 |
| 37.5° | 2103.8 | 1909.2 | 1376.4 | 871.0  | 671.9 | 588.7 | 554.4 | 541.8 | 545.0 | 569.5 | 587.0 |
| 40°   | 2337.1 | 2164.2 | 1343.8 | 810.6  | 618.9 | 564.2 | 521.4 | 512.0 | 502.2 | 526.3 | 537.3 |
| 42.5° | 2711.2 | 2346.1 | 1332.8 | 744.1  | 594.0 | 531.1 | 501.8 | 476.9 | 467.5 | 487.9 | 507.9 |
| 45°   | 3085.3 | 2539.1 | 1272.8 | 676.8  | 558.9 | 528.7 | 473.2 | 449.6 | 452.0 | 470.4 | 490.8 |
| 47.5° | 3502.2 | 2798.1 | 1171.2 | 611.5  | 520.5 | 516.9 | 444.7 | 434.5 | 441.8 | 462.2 | 482.6 |
| 50°   | 3995.0 | 3073.1 | 1087.2 | 552.8  | 493.2 | 481.4 | 441.0 | 428.8 | 435.7 | 459.8 | 479.7 |
| 52.5° | 4533.9 | 3374.6 | 1026.0 | 498.5  | 462.2 | 453.2 | 445.9 | 434.1 | 442.2 | 463.0 | 483.8 |
| 55°   | 5069.6 | 3649.9 | 984.4  | 461.4  | 435.7 | 441.4 | 456.1 | 447.5 | 451.6 | 467.1 | 487.9 |
| 57.5° | 5466.9 | 3795.2 | 900.8  | 421.8  | 414.1 | 434.5 | 457.3 | 443.0 | 445.5 | 467.1 | 489.5 |
| 60°   | 5697.8 | 3822.9 | 763.3  | 389.6  | 396.9 | 420.6 | 444.7 | 426.3 | 424.7 | 460.2 | 488.3 |
| 62.5° | 5672.5 | 3661.8 | 605.4  | 360.2  | 377.4 | 399.8 | 425.5 | 407.9 | 412.4 | 461.0 | 490.8 |
| 65°   | 5310.3 | 3332.5 | 481.4  | 335.3  | 353.7 | 376.9 | 409.6 | 402.6 | 424.3 | 493.6 | 525.8 |
| 67.5° | 4673.9 | 2851.6 | 386.7  | 312.1  | 331.7 | 361.4 | 420.6 | 439.0 | 448.3 | 527.1 | 560.1 |
| 70°   | 3787.8 | 2215.6 | 322.3  | 291.7  | 314.1 | 368.8 | 452.4 | 448.7 | 441.0 | 511.2 | 537.3 |
| 72.5° | 2736.5 | 1518.8 | 283.5  | 271.7  | 292.5 | 346.8 | 453.2 | 433.6 | 423.9 | 466.7 | 485.5 |
| 75°   | 1712.2 | 906.1  | 247.6  | 246.4  | 259.5 | 310.9 | 432.8 | 415.3 | 388.8 | 410.0 | 434.5 |
| 77.5° | 977.9  | 463.8  | 208.5  | 219.5  | 227.2 | 269.7 | 387.6 | 371.6 | 348.0 | 357.0 | 381.0 |
| 80°   | 373.3  | 224.4  | 175.8  | 195.0  | 193.0 | 228.5 | 328.4 | 324.7 | 297.8 | 300.7 | 315.3 |
| 82.5° | 175.8  | 125.6  | 146.0  | 167.7  | 156.7 | 181.9 | 266.8 | 265.6 | 241.9 | 219.1 | 230.9 |
| 85°   | 65.3   | 66.9   | 106.9  | 127.7  | 108.9 | 117.5 | 193.0 | 187.7 | 164.8 | 139.1 | 153.8 |
| 87.5° | 14.7   | 24.1   | 52.6   | 66.5   | 37.9  | 36.3  | 77.9  | 67.7  | 65.3  | 38.8  | 40.8  |
| 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)