

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: P367412

Luminaire Tested: **PMM-SA2C-727-U-T4W**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P367412  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA2C-727-U-T4W  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10461 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

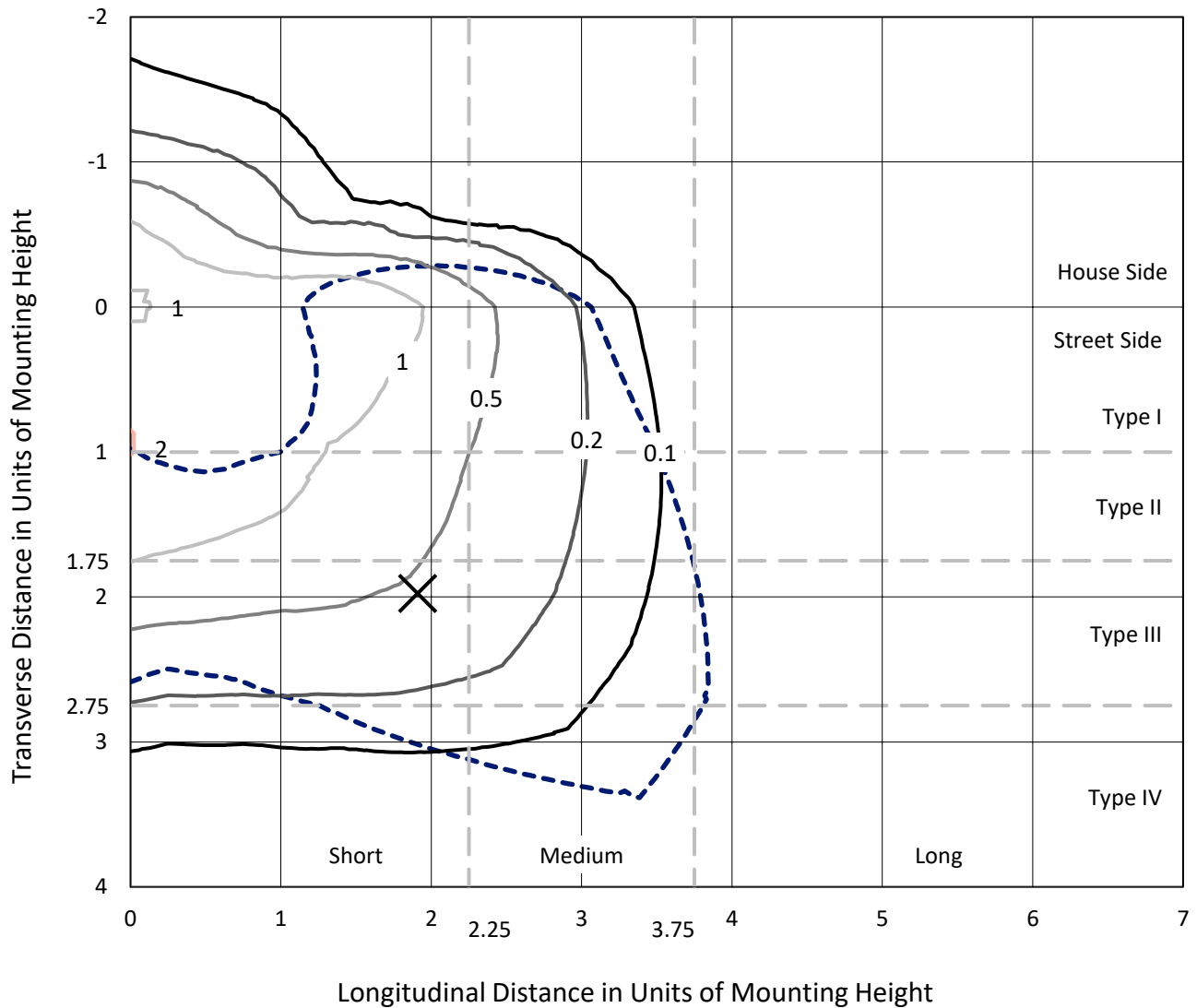
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

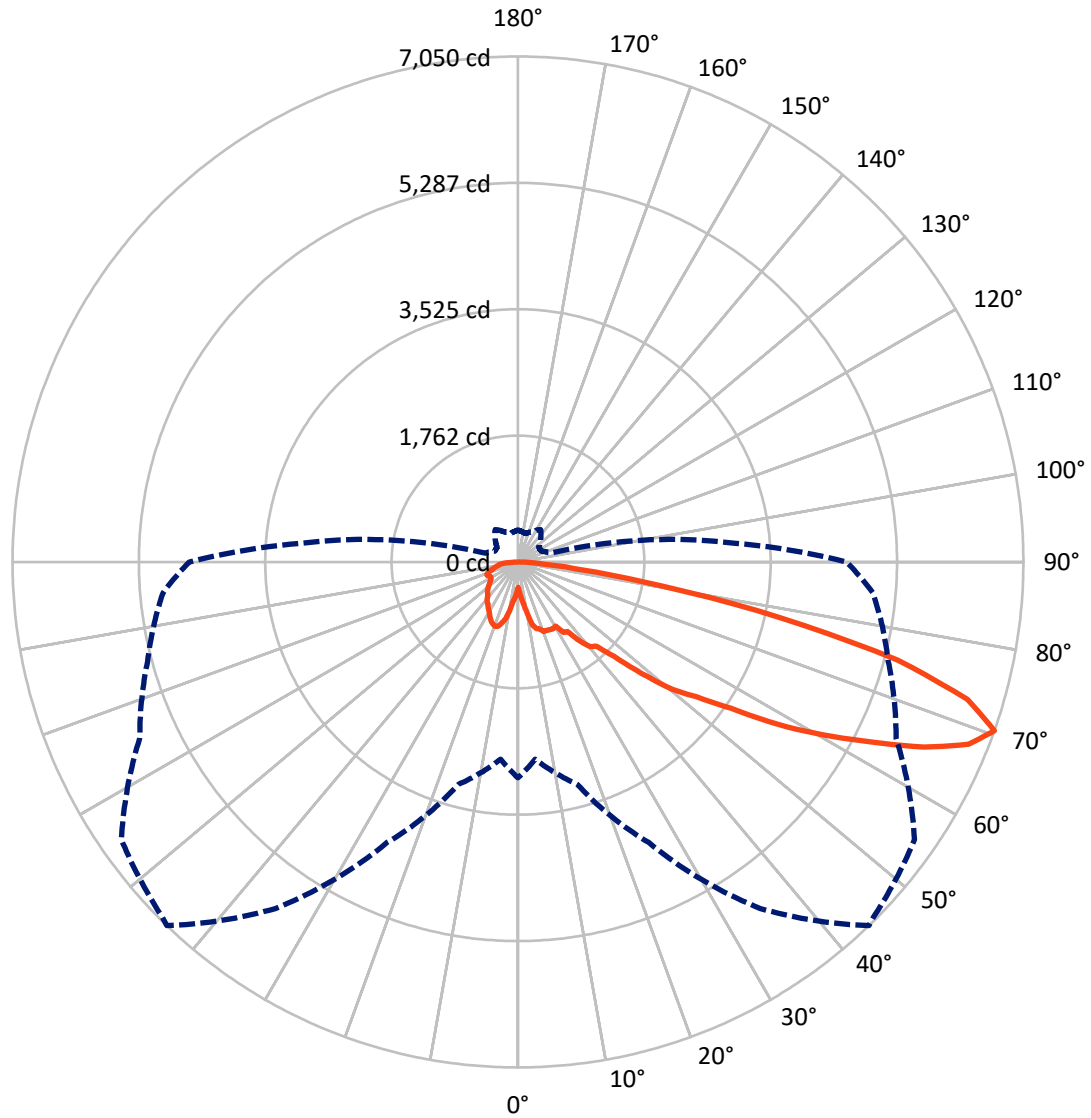
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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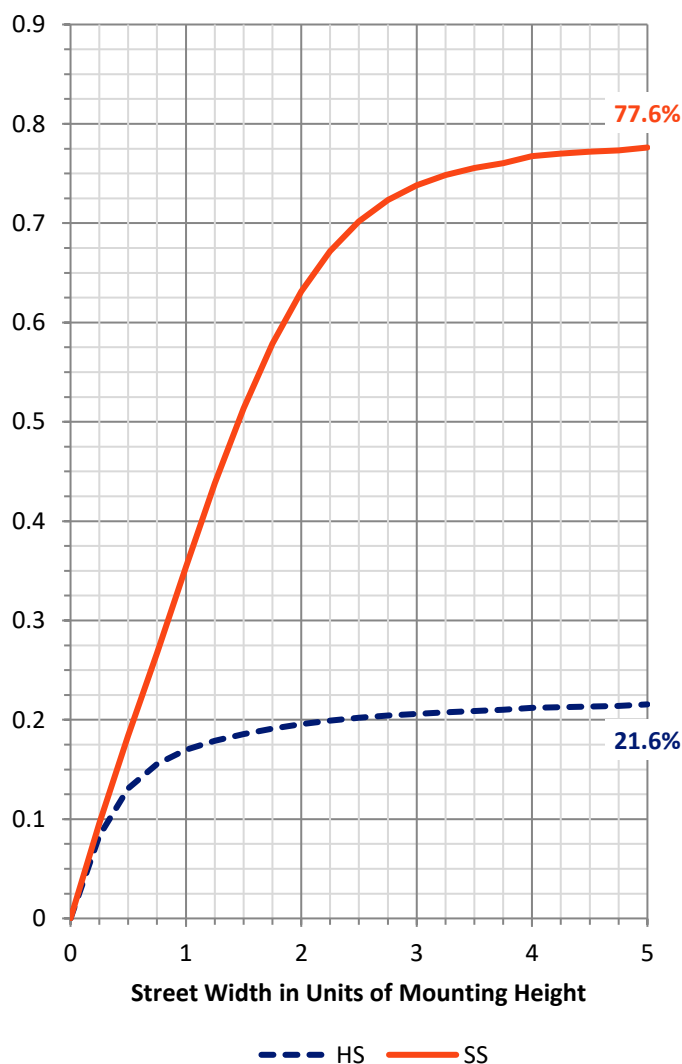
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2308.1   | 0.0    | 2308.1  |
|                    | % Fixture | 22.1     | 0.0    | 22.1    |
| <b>Street Side</b> | Lumens    | 8152.9   | 0.0    | 8152.9  |
|                    | % Fixture | 77.9     | 0.0    | 77.9    |
| <b>Total</b>       | Lumens    | 10461.0  | 0.0    | 10461.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 55.7    | 0.5       |
| 10°-20°   | 256.7   | 2.5       |
| 20°-30°   | 479.8   | 4.6       |
| 30°-40°   | 770.1   | 7.4       |
| 40°-50°   | 1299.8  | 12.4      |
| 50°-60°   | 2316.3  | 22.1      |
| 60°-70°   | 3168.4  | 30.3      |
| 70°-80°   | 1863.2  | 17.8      |
| 80°-90°   | 250.9   | 2.4       |
| 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°    | 10461.0 | 100.0     |
| 0°-180°   | 10461.0 | 100.0     |

**Coefficient of Utilization**

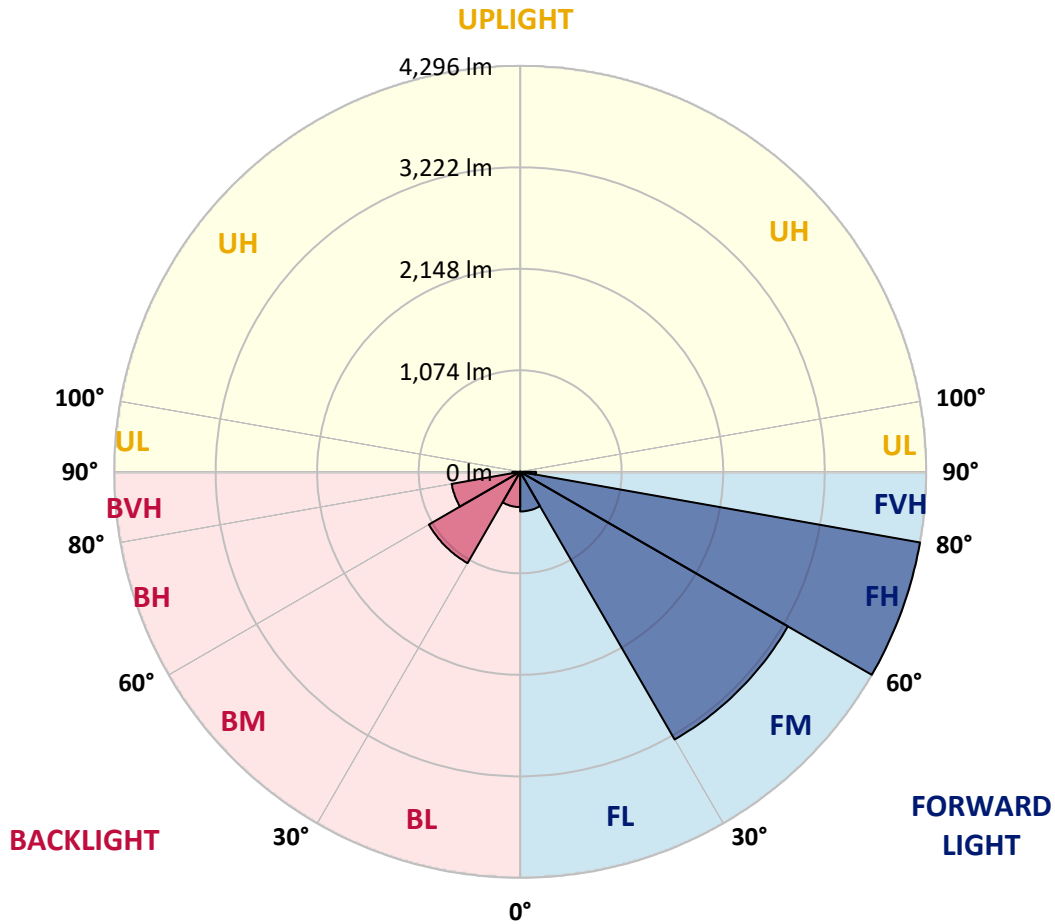


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 419.2  | 4.0       |                         |      |         |
| FM (30°-60°)   | 3270.9 | 31.3      |                         |      |         |
| FH (60°-80°)   | 4295.6 | 41.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 167.2  | 1.6       |                         |      | G2/225  |
| BL (0°-30°)    | 373.0  | 3.6       | B1/500                  |      |         |
| BM (30°-60°)   | 1115.4 | 10.7      | B2/2500                 |      |         |
| BH (60°-80°)   | 736.0  | 7.0       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 83.7   | 0.8       |                         |      | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 44°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 355.6  | 355.6  | 355.6  | 355.6  | 355.6  | 355.6  | 355.6  | 355.6  | 355.6  | 355.6  | 355.6  |
| 2.5°  | 431.5  | 422.9  | 402.3  | 409.2  | 417.8  | 421.2  | 420.4  | 419.5  | 406.2  | 401.5  | 425.1  |
| 5°    | 586.3  | 567.5  | 552.5  | 546.5  | 526.7  | 511.3  | 501.8  | 526.7  | 522.9  | 529.3  | 545.6  |
| 7.5°  | 732.2  | 720.2  | 686.3  | 674.3  | 634.0  | 607.4  | 604.4  | 624.1  | 629.2  | 618.9  | 646.8  |
| 10°   | 826.1  | 805.5  | 798.7  | 769.9  | 742.0  | 737.8  | 735.2  | 726.2  | 713.7  | 712.9  | 688.0  |
| 12.5° | 899.0  | 909.8  | 915.3  | 882.3  | 883.2  | 898.6  | 890.5  | 854.0  | 833.0  | 796.1  | 799.1  |
| 15°   | 1029.9 | 1045.3 | 1001.1 | 980.1  | 939.8  | 962.9  | 959.9  | 929.5  | 926.5  | 902.5  | 874.6  |
| 17.5° | 1144.0 | 1150.8 | 1077.0 | 1029.0 | 1015.3 | 981.8  | 990.8  | 991.7  | 952.2  | 995.1  | 970.2  |
| 20°   | 1153.4 | 1177.8 | 1092.9 | 997.3  | 1038.4 | 1034.2 | 1035.4 | 1026.9 | 975.0  | 1045.7 | 1036.3 |
| 22.5° | 1199.7 | 1162.4 | 1086.1 | 1016.1 | 1026.9 | 1033.3 | 1039.3 | 1029.0 | 1026.0 | 1065.5 | 1094.2 |
| 25°   | 1191.1 | 1179.1 | 1101.9 | 1042.7 | 1044.0 | 1045.3 | 1048.3 | 1079.2 | 1075.8 | 1129.4 | 1144.4 |
| 27.5° | 1271.3 | 1252.9 | 1106.6 | 1092.1 | 1058.6 | 1051.3 | 1030.7 | 1095.1 | 1145.2 | 1144.0 | 1226.7 |
| 30°   | 1424.0 | 1405.2 | 1216.4 | 1174.0 | 1113.5 | 1038.9 | 1078.3 | 1164.1 | 1203.6 | 1216.9 | 1322.0 |
| 32.5° | 1662.5 | 1693.4 | 1432.6 | 1261.5 | 1186.4 | 1170.1 | 1165.8 | 1157.3 | 1255.0 | 1320.7 | 1416.3 |
| 35°   | 2004.8 | 1980.4 | 1687.4 | 1448.9 | 1263.2 | 1193.3 | 1202.7 | 1255.0 | 1371.3 | 1413.8 | 1502.1 |
| 37.5° | 2396.9 | 2346.2 | 2013.8 | 1661.2 | 1484.5 | 1397.0 | 1365.7 | 1416.3 | 1442.1 | 1475.5 | 1656.1 |
| 40°   | 2795.3 | 2671.8 | 2334.2 | 1940.5 | 1617.5 | 1551.4 | 1524.0 | 1461.8 | 1522.3 | 1590.0 | 1819.5 |
| 42.5° | 3180.1 | 3084.4 | 2683.0 | 2273.8 | 1841.4 | 1605.9 | 1590.9 | 1530.0 | 1717.4 | 1789.1 | 2055.4 |
| 45°   | 3583.3 | 3361.5 | 3040.3 | 2649.9 | 2168.7 | 1873.1 | 1850.8 | 1741.5 | 1981.7 | 2130.9 | 2388.3 |
| 47.5° | 3854.4 | 3648.9 | 3367.5 | 2955.3 | 2442.8 | 2320.1 | 2277.6 | 2090.6 | 2308.5 | 2502.4 | 2902.6 |
| 50°   | 4110.9 | 3899.4 | 3603.9 | 3289.5 | 2939.0 | 2797.9 | 2707.4 | 2396.0 | 2715.6 | 3031.3 | 3561.8 |
| 52.5° | 4478.0 | 4288.9 | 3878.4 | 3626.2 | 3472.2 | 3125.2 | 3057.8 | 2886.7 | 3191.7 | 3617.6 | 4282.4 |
| 55°   | 4870.5 | 4612.7 | 4240.8 | 4101.0 | 4038.8 | 3594.4 | 3539.5 | 3430.6 | 3825.6 | 4217.7 | 4982.9 |
| 57.5° | 5043.8 | 4774.9 | 4569.8 | 4486.2 | 4481.0 | 4276.4 | 4213.4 | 4137.5 | 4473.7 | 4732.4 | 5642.1 |
| 60°   | 5181.5 | 4892.8 | 4810.9 | 4857.6 | 5027.5 | 4892.8 | 4810.9 | 4744.0 | 5001.3 | 5241.1 | 6180.0 |
| 62.5° | 5156.2 | 4866.6 | 4908.7 | 5051.1 | 5484.7 | 5524.2 | 5461.1 | 5299.0 | 5524.2 | 5658.0 | 6488.4 |
| 65°   | 4747.8 | 4480.2 | 4725.1 | 5063.1 | 5909.8 | 6225.1 | 6221.6 | 5797.4 | 5875.5 | 5875.5 | 6455.8 |
| 67.5° | 4032.4 | 3755.3 | 4156.3 | 4957.1 | 6203.6 | 6780.5 | 6781.4 | 6325.9 | 5907.7 | 5853.6 | 5951.4 |
| 70°   | 3011.1 | 2760.2 | 3211.0 | 4317.2 | 5900.4 | 7049.5 | 7010.4 | 6752.2 | 5819.3 | 5347.0 | 4971.3 |
| 72.5° | 1798.5 | 1636.4 | 2051.1 | 3142.8 | 5033.1 | 6554.9 | 6658.7 | 6261.1 | 5327.3 | 4446.7 | 3553.7 |
| 75°   | 816.7  | 746.3  | 963.8  | 1805.4 | 3593.1 | 5467.6 | 5580.4 | 5284.0 | 4231.4 | 3198.1 | 2053.7 |
| 77.5° | 349.6  | 330.7  | 420.8  | 800.8  | 1981.2 | 3739.0 | 3970.2 | 3776.3 | 2867.0 | 1858.6 | 908.5  |
| 80°   | 224.8  | 212.7  | 258.6  | 385.2  | 920.1  | 2020.3 | 2219.3 | 2146.8 | 1460.5 | 722.7  | 320.0  |
| 82.5° | 134.3  | 130.4  | 172.9  | 241.9  | 501.8  | 889.2  | 1002.0 | 1028.6 | 606.5  | 324.3  | 183.2  |
| 85°   | 73.3   | 74.2   | 94.8   | 146.7  | 301.1  | 346.1  | 370.6  | 403.2  | 285.7  | 187.9  | 88.8   |
| 87.5° | 24.4   | 28.3   | 38.2   | 59.6   | 107.2  | 97.8   | 98.2   | 114.1  | 120.5  | 78.1   | 28.3   |
| 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°    | 355.6  | 355.6  | 355.6  | 355.6  | 355.6 | 355.6 | 355.6 | 355.6 | 355.6 | 355.6  | 355.6  |
| 2.5°  | 428.9  | 421.2  | 401.5  | 402.8  | 410.1 | 411.8 | 413.9 | 401.5 | 398.9 | 422.5  | 424.6  |
| 5°    | 548.2  | 522.9  | 511.3  | 507.4  | 496.3 | 492.4 | 513.0 | 522.4 | 531.9 | 550.3  | 559.3  |
| 7.5°  | 643.8  | 615.5  | 594.5  | 575.2  | 558.9 | 549.5 | 584.2 | 610.8 | 627.1 | 664.8  | 682.0  |
| 10°   | 687.6  | 663.1  | 655.4  | 640.0  | 652.4 | 680.7 | 687.1 | 688.0 | 724.0 | 723.2  | 730.5  |
| 12.5° | 774.6  | 758.8  | 733.5  | 739.0  | 771.6 | 800.8 | 792.7 | 805.1 | 818.0 | 848.9  | 834.7  |
| 15°   | 854.0  | 849.7  | 826.1  | 830.0  | 836.4 | 872.9 | 877.6 | 890.0 | 909.8 | 934.2  | 917.5  |
| 17.5° | 951.8  | 950.1  | 892.6  | 887.5  | 902.5 | 938.1 | 926.9 | 905.0 | 970.2 | 996.4  | 989.5  |
| 20°   | 1018.3 | 1005.4 | 931.6  | 909.8  | 947.9 | 952.7 | 939.8 | 905.0 | 961.7 | 1018.7 | 1034.2 |
| 22.5° | 1073.6 | 1058.6 | 982.7  | 939.8  | 932.1 | 934.2 | 934.2 | 927.8 | 955.7 | 1002.4 | 1002.0 |
| 25°   | 1118.2 | 1132.4 | 1035.9 | 994.7  | 953.5 | 902.0 | 895.6 | 901.2 | 917.1 | 1007.1 | 1004.1 |
| 27.5° | 1230.2 | 1191.1 | 1053.9 | 1023.0 | 938.5 | 857.4 | 875.0 | 883.6 | 888.7 | 987.4  | 1003.7 |
| 30°   | 1303.1 | 1315.1 | 1118.2 | 1039.7 | 916.6 | 807.7 | 813.7 | 838.6 | 868.6 | 985.3  | 990.0  |
| 32.5° | 1401.3 | 1375.6 | 1218.6 | 1011.8 | 858.3 | 777.7 | 766.5 | 800.0 | 844.6 | 950.5  | 963.4  |
| 35°   | 1492.7 | 1523.1 | 1261.1 | 1006.7 | 817.5 | 732.6 | 744.6 | 756.2 | 802.5 | 911.9  | 926.9  |
| 37.5° | 1707.1 | 1637.7 | 1380.3 | 981.8  | 783.7 | 709.9 | 697.0 | 714.6 | 754.1 | 838.6  | 873.3  |
| 40°   | 1870.1 | 1874.4 | 1406.0 | 950.5  | 718.9 | 677.3 | 649.8 | 667.4 | 684.1 | 751.5  | 766.5  |
| 42.5° | 2176.0 | 2082.5 | 1469.1 | 881.9  | 678.1 | 628.4 | 612.9 | 620.7 | 623.2 | 651.5  | 676.4  |
| 45°   | 2565.0 | 2345.8 | 1494.0 | 789.7  | 624.5 | 608.2 | 576.9 | 573.1 | 558.9 | 562.8  | 584.6  |
| 47.5° | 3103.3 | 2756.7 | 1475.9 | 691.4  | 576.9 | 582.1 | 537.0 | 519.4 | 499.7 | 504.4  | 525.0  |
| 50°   | 3799.5 | 3281.7 | 1474.7 | 608.2  | 544.3 | 547.7 | 510.9 | 479.1 | 459.4 | 469.2  | 487.3  |
| 52.5° | 4580.5 | 3808.5 | 1480.7 | 551.2  | 508.7 | 507.0 | 493.7 | 455.1 | 439.2 | 449.5  | 470.1  |
| 55°   | 5327.7 | 4261.4 | 1525.3 | 515.1  | 471.8 | 474.8 | 480.0 | 447.4 | 429.8 | 439.2  | 460.7  |
| 57.5° | 5978.0 | 4619.2 | 1508.5 | 477.0  | 437.5 | 451.2 | 465.0 | 436.7 | 423.4 | 437.1  | 458.5  |
| 60°   | 6432.7 | 4785.1 | 1376.4 | 440.5  | 412.2 | 431.1 | 457.7 | 435.4 | 433.6 | 463.2  | 489.0  |
| 62.5° | 6598.7 | 4723.8 | 1119.1 | 411.8  | 397.2 | 428.5 | 474.4 | 463.7 | 465.4 | 501.8  | 537.4  |
| 65°   | 6356.3 | 4401.3 | 834.7  | 393.3  | 385.6 | 440.9 | 513.0 | 480.4 | 456.8 | 486.8  | 519.4  |
| 67.5° | 5667.0 | 3827.8 | 609.9  | 377.5  | 372.3 | 460.7 | 548.6 | 478.7 | 434.9 | 465.4  | 492.0  |
| 70°   | 4584.8 | 3021.4 | 472.3  | 357.3  | 354.7 | 447.4 | 552.0 | 465.8 | 411.3 | 431.1  | 446.1  |
| 72.5° | 3141.5 | 2068.7 | 391.2  | 338.0  | 324.3 | 396.3 | 524.2 | 437.1 | 383.0 | 394.6  | 407.1  |
| 75°   | 1755.6 | 1161.1 | 329.0  | 314.0  | 284.0 | 353.0 | 491.6 | 419.9 | 362.0 | 365.4  | 382.6  |
| 77.5° | 787.9  | 502.3  | 279.2  | 282.2  | 247.5 | 312.3 | 449.1 | 392.5 | 329.8 | 322.1  | 339.3  |
| 80°   | 298.1  | 244.9  | 226.5  | 238.5  | 208.0 | 270.7 | 404.9 | 367.6 | 296.0 | 286.1  | 296.0  |
| 82.5° | 172.9  | 148.4  | 168.1  | 183.6  | 165.1 | 248.8 | 386.5 | 344.9 | 260.8 | 235.9  | 244.5  |
| 85°   | 80.2   | 76.8   | 100.8  | 119.2  | 115.4 | 193.9 | 330.7 | 259.5 | 185.7 | 157.0  | 173.7  |
| 87.5° | 21.0   | 23.6   | 35.6   | 42.0   | 42.9  | 66.5  | 127.4 | 96.5  | 72.5  | 54.9   | 52.8   |
| 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)