

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: P598146

Luminaire Tested: **PMM-SA3D-827-U-T4W**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P598146  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-14)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA3D-827-U-T4W  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14836 lumens  
Efficiency: N/A  
Efficacy: 77.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

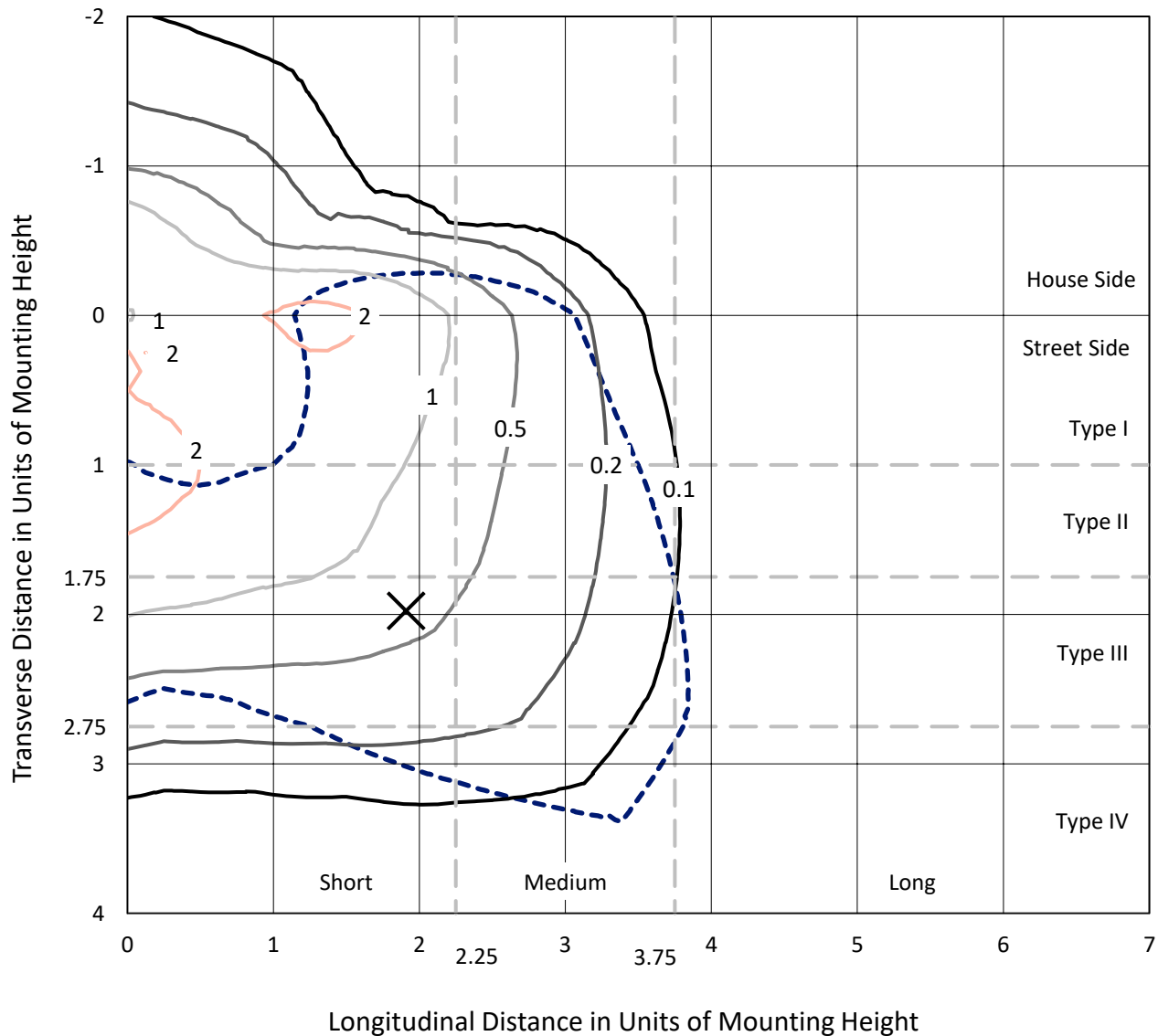
Input Watts (W): 192  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

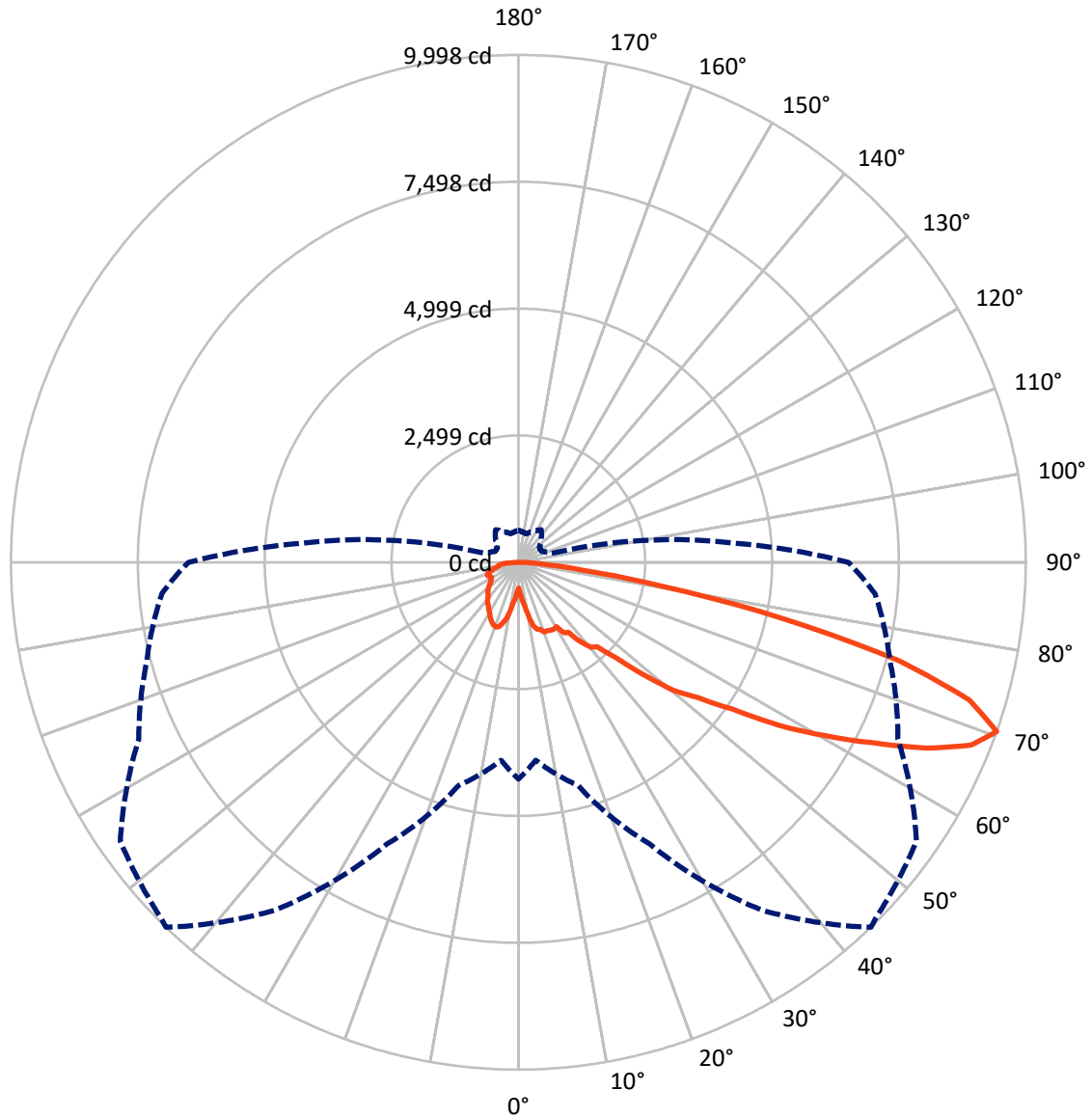
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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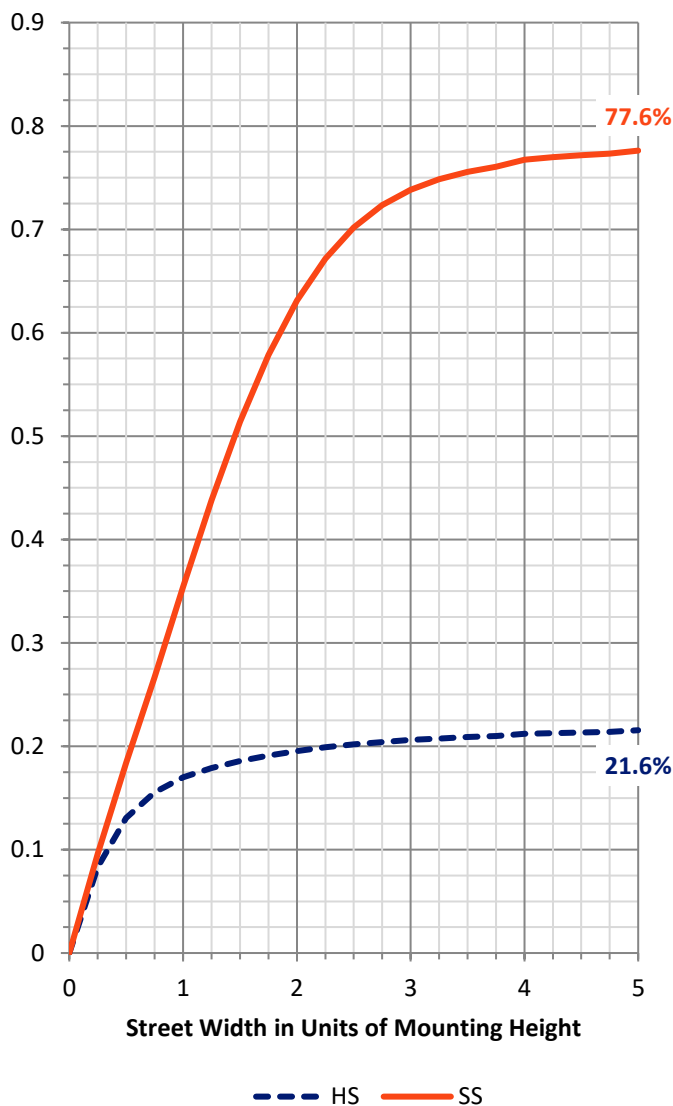
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3273.4   | 0.0    | 3273.4  |
|                    | % Fixture | 22.1     | 0.0    | 22.1    |
| <b>Street Side</b> | Lumens    | 11562.6  | 0.0    | 11562.6 |
|                    | % Fixture | 77.9     | 0.0    | 77.9    |
| <b>Total</b>       | Lumens    | 14836.0  | 0.0    | 14836.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 79.1    | 0.5       |
| 10°-20°   | 364.1   | 2.5       |
| 20°-30°   | 680.4   | 4.6       |
| 30°-40°   | 1092.2  | 7.4       |
| 40°-50°   | 1843.5  | 12.4      |
| 50°-60°   | 3285.0  | 22.1      |
| 60°-70°   | 4493.5  | 30.3      |
| 70°-80°   | 2642.4  | 17.8      |
| 80°-90°   | 355.8   | 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°    | 14836.0 | 100.0     |
| 0°-180°   | 14836.0 | 100.0     |

**Coefficient of Utilization**



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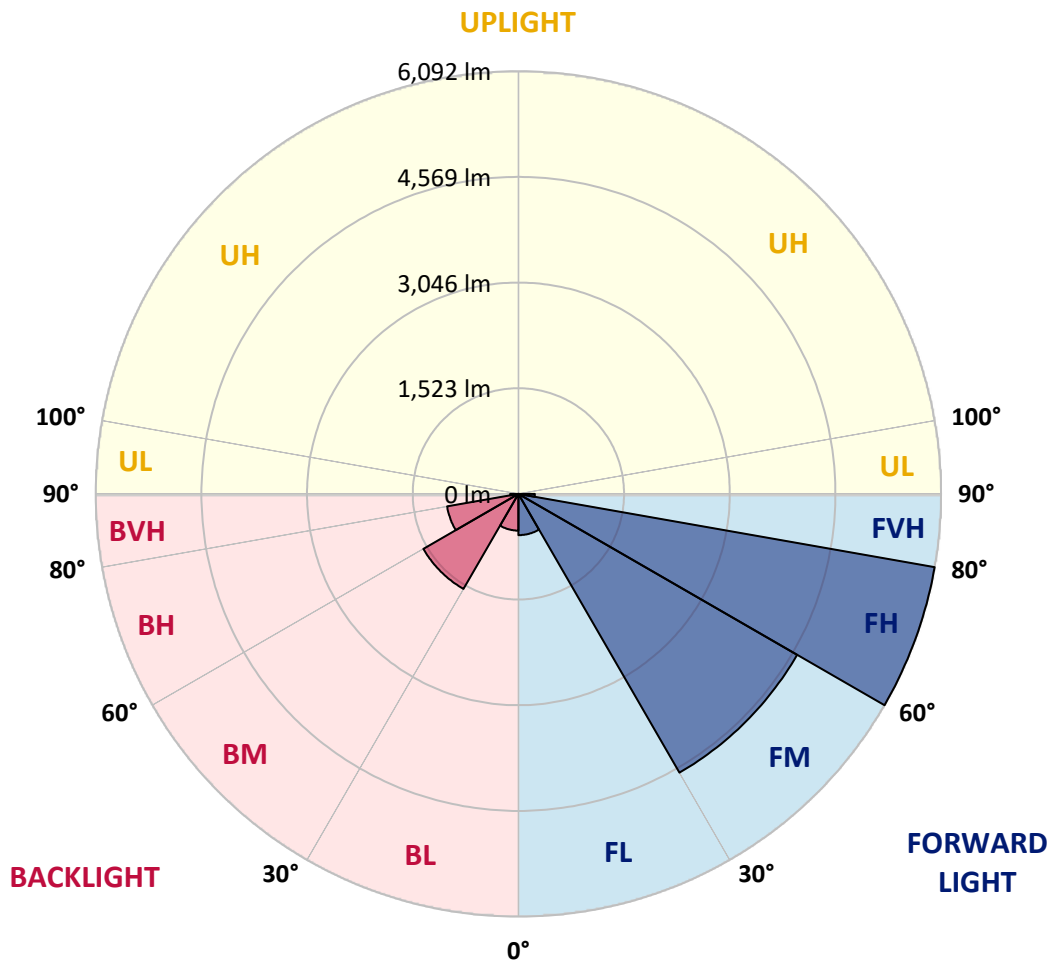
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 594.5  | 4.0       |                         |      |         |
| FM (30°-60°)   | 4638.8 | 31.3      |                         |      |         |
| FH (60°-80°)   | 6092.1 | 41.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 237.1  | 1.6       |                         |      | G3/500  |
| BL (0°-30°)    | 529.1  | 3.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 1581.9 | 10.7      | B2/2500                 |      |         |
| BH (60°-80°)   | 1043.8 | 7.0       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 118.7  | 0.8       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 44°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 504.3  | 504.3  | 504.3  | 504.3  | 504.3  | 504.3  | 504.3  | 504.3  | 504.3  | 504.3  | 504.3  |
| 2.5°  | 612.0  | 599.8  | 570.6  | 580.3  | 592.5  | 597.4  | 596.2  | 594.9  | 576.1  | 569.4  | 602.8  |
| 5°    | 831.6  | 804.8  | 783.5  | 775.0  | 747.0  | 725.1  | 711.7  | 747.0  | 741.5  | 750.7  | 773.8  |
| 7.5°  | 1038.4 | 1021.4 | 973.3  | 956.3  | 899.1  | 861.4  | 857.1  | 885.1  | 892.4  | 877.8  | 917.3  |
| 10°   | 1171.6 | 1142.4 | 1132.7 | 1091.9 | 1052.4 | 1046.3 | 1042.7 | 1029.9 | 1012.2 | 1011.0 | 975.7  |
| 12.5° | 1275.0 | 1290.2 | 1298.1 | 1251.3 | 1252.5 | 1274.4 | 1262.9 | 1211.2 | 1181.4 | 1129.0 | 1133.3 |
| 15°   | 1460.6 | 1482.5 | 1419.8 | 1390.0 | 1332.8 | 1365.7 | 1361.4 | 1318.2 | 1314.0 | 1279.9 | 1240.4 |
| 17.5° | 1622.4 | 1632.1 | 1527.5 | 1459.4 | 1439.9 | 1392.4 | 1405.2 | 1406.4 | 1350.5 | 1411.3 | 1376.0 |
| 20°   | 1635.8 | 1670.4 | 1550.0 | 1414.3 | 1472.7 | 1466.7 | 1468.5 | 1456.3 | 1382.7 | 1483.1 | 1469.7 |
| 22.5° | 1701.5 | 1648.5 | 1540.3 | 1441.1 | 1456.3 | 1465.4 | 1474.0 | 1459.4 | 1455.1 | 1511.1 | 1551.8 |
| 25°   | 1689.3 | 1672.3 | 1562.8 | 1478.8 | 1480.6 | 1482.5 | 1486.7 | 1530.5 | 1525.7 | 1601.7 | 1623.0 |
| 27.5° | 1803.1 | 1776.9 | 1569.5 | 1548.8 | 1501.3 | 1491.0 | 1461.8 | 1553.0 | 1624.2 | 1622.4 | 1739.8 |
| 30°   | 2019.6 | 1992.8 | 1725.2 | 1665.0 | 1579.2 | 1473.3 | 1529.3 | 1651.0 | 1706.9 | 1725.8 | 1874.8 |
| 32.5° | 2357.8 | 2401.6 | 2031.8 | 1789.1 | 1682.6 | 1659.5 | 1653.4 | 1641.2 | 1779.9 | 1873.0 | 2008.7 |
| 35°   | 2843.3 | 2808.6 | 2393.1 | 2054.9 | 1791.5 | 1692.3 | 1705.7 | 1779.9 | 1944.8 | 2005.0 | 2130.3 |
| 37.5° | 3399.3 | 3327.5 | 2856.1 | 2356.0 | 2105.4 | 1981.3 | 1936.9 | 2008.7 | 2045.2 | 2092.6 | 2348.7 |
| 40°   | 3964.4 | 3789.2 | 3310.5 | 2752.0 | 2294.0 | 2200.3 | 2161.4 | 2073.1 | 2158.9 | 2255.0 | 2580.5 |
| 42.5° | 4510.1 | 4374.4 | 3805.0 | 3224.7 | 2611.5 | 2277.5 | 2256.2 | 2169.9 | 2435.7 | 2537.3 | 2915.1 |
| 45°   | 5081.9 | 4767.4 | 4311.8 | 3758.2 | 3075.7 | 2656.5 | 2624.9 | 2469.8 | 2810.4 | 3022.1 | 3387.1 |
| 47.5° | 5466.3 | 5175.0 | 4775.9 | 4191.3 | 3464.4 | 3290.4 | 3230.2 | 2964.9 | 3274.0 | 3548.9 | 4116.5 |
| 50°   | 5830.1 | 5530.2 | 5111.1 | 4665.2 | 4168.2 | 3968.1 | 3839.7 | 3398.1 | 3851.3 | 4299.0 | 5051.5 |
| 52.5° | 6350.8 | 6082.6 | 5500.4 | 5142.7 | 4924.3 | 4432.2 | 4336.7 | 4094.0 | 4526.5 | 5130.5 | 6073.4 |
| 55°   | 6907.4 | 6541.8 | 6014.4 | 5816.1 | 5727.9 | 5097.7 | 5019.8 | 4865.3 | 5425.6 | 5981.6 | 7066.8 |
| 57.5° | 7153.2 | 6771.8 | 6481.0 | 6362.4 | 6355.1 | 6064.9 | 5975.5 | 5867.8 | 6344.8 | 6711.6 | 8001.8 |
| 60°   | 7348.5 | 6939.1 | 6822.9 | 6889.2 | 7130.1 | 6939.1 | 6822.9 | 6728.0 | 7093.0 | 7433.0 | 8764.6 |
| 62.5° | 7312.6 | 6902.0 | 6961.6 | 7163.5 | 7778.6 | 7834.5 | 7745.1 | 7515.2 | 7834.5 | 8024.3 | 9202.0 |
| 65°   | 6733.5 | 6353.9 | 6701.2 | 7180.6 | 8381.4 | 8828.5 | 8823.6 | 8222.0 | 8332.7 | 8332.7 | 9155.8 |
| 67.5° | 5718.8 | 5325.8 | 5894.6 | 7030.3 | 8798.1 | 9616.3 | 9617.5 | 8971.5 | 8378.4 | 8301.7 | 8440.4 |
| 70°   | 4270.4 | 3914.5 | 4553.9 | 6122.7 | 8368.0 | 9997.7 | 9942.3 | 9576.1 | 8253.0 | 7583.3 | 7050.4 |
| 72.5° | 2550.7 | 2320.7 | 2909.0 | 4457.1 | 7138.0 | 9296.3 | 9443.5 | 8879.6 | 7555.3 | 6306.4 | 5039.9 |
| 75°   | 1158.2 | 1058.5 | 1366.9 | 2560.4 | 5095.9 | 7754.2 | 7914.2 | 7493.9 | 6001.1 | 4535.6 | 2912.6 |
| 77.5° | 495.8  | 469.0  | 596.8  | 1135.7 | 2809.8 | 5302.7 | 5630.6 | 5355.6 | 4066.0 | 2635.8 | 1288.4 |
| 80°   | 318.8  | 301.7  | 366.8  | 546.3  | 1304.8 | 2865.2 | 3147.4 | 3044.6 | 2071.3 | 1025.0 | 453.8  |
| 82.5° | 190.4  | 184.9  | 245.2  | 343.1  | 711.7  | 1261.0 | 1421.0 | 1458.7 | 860.2  | 459.9  | 259.8  |
| 85°   | 104.0  | 105.2  | 134.4  | 208.0  | 427.0  | 490.9  | 525.6  | 571.8  | 405.1  | 266.4  | 125.9  |
| 87.5° | 34.7   | 40.1   | 54.1   | 84.6   | 152.1  | 138.7  | 139.3  | 161.8  | 170.9  | 110.7  | 40.1   |
| 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°    | 504.3  | 504.3  | 504.3  | 504.3  | 504.3  | 504.3  | 504.3  | 504.3  | 504.3  | 504.3  | 504.3  |
| 2.5°  | 608.3  | 597.4  | 569.4  | 571.2  | 581.6  | 584.0  | 587.0  | 569.4  | 565.7  | 599.2  | 602.2  |
| 5°    | 777.4  | 741.5  | 725.1  | 719.6  | 703.8  | 698.3  | 727.5  | 740.9  | 754.3  | 780.5  | 793.2  |
| 7.5°  | 913.1  | 872.9  | 843.1  | 815.8  | 792.6  | 779.3  | 828.5  | 866.2  | 889.4  | 942.9  | 967.2  |
| 10°   | 975.1  | 940.5  | 929.5  | 907.6  | 925.3  | 965.4  | 974.5  | 975.7  | 1026.8 | 1025.6 | 1036.0 |
| 12.5° | 1098.6 | 1076.1 | 1040.2 | 1048.1 | 1094.4 | 1135.7 | 1124.2 | 1141.8 | 1160.1 | 1203.9 | 1183.8 |
| 15°   | 1211.2 | 1205.1 | 1171.6 | 1177.1 | 1186.2 | 1237.9 | 1244.6 | 1262.3 | 1290.2 | 1324.9 | 1301.2 |
| 17.5° | 1349.9 | 1347.4 | 1265.9 | 1258.6 | 1279.9 | 1330.4 | 1314.6 | 1283.5 | 1376.0 | 1413.1 | 1403.4 |
| 20°   | 1444.1 | 1425.9 | 1321.3 | 1290.2 | 1344.4 | 1351.1 | 1332.8 | 1283.5 | 1363.8 | 1444.8 | 1466.7 |
| 22.5° | 1522.6 | 1501.3 | 1393.7 | 1332.8 | 1321.9 | 1324.9 | 1324.9 | 1315.8 | 1355.3 | 1421.6 | 1421.0 |
| 25°   | 1585.9 | 1606.0 | 1469.1 | 1410.7 | 1352.3 | 1279.3 | 1270.2 | 1278.1 | 1300.6 | 1428.3 | 1424.1 |
| 27.5° | 1744.7 | 1689.3 | 1494.6 | 1450.8 | 1331.0 | 1216.0 | 1241.0 | 1253.1 | 1260.4 | 1400.3 | 1423.5 |
| 30°   | 1848.1 | 1865.1 | 1585.9 | 1474.6 | 1300.0 | 1145.5 | 1154.0 | 1189.3 | 1231.8 | 1397.3 | 1404.0 |
| 32.5° | 1987.4 | 1950.9 | 1728.2 | 1435.0 | 1217.2 | 1102.9 | 1087.1 | 1134.5 | 1197.8 | 1348.0 | 1366.3 |
| 35°   | 2116.9 | 2160.1 | 1788.5 | 1427.7 | 1159.5 | 1039.0 | 1056.0 | 1072.5 | 1138.2 | 1293.3 | 1314.6 |
| 37.5° | 2421.1 | 2322.6 | 1957.6 | 1392.4 | 1111.4 | 1006.8 | 988.5  | 1013.5 | 1069.4 | 1189.3 | 1238.5 |
| 40°   | 2652.3 | 2658.3 | 1994.1 | 1348.0 | 1019.5 | 960.5  | 921.6  | 946.5  | 970.3  | 1065.8 | 1087.1 |
| 42.5° | 3086.0 | 2953.4 | 2083.5 | 1250.7 | 961.7  | 891.2  | 869.3  | 880.2  | 883.9  | 924.0  | 959.3  |
| 45°   | 3637.7 | 3326.9 | 2118.8 | 1119.9 | 885.7  | 862.6  | 818.2  | 812.7  | 792.6  | 798.1  | 829.1  |
| 47.5° | 4401.2 | 3909.7 | 2093.2 | 980.6  | 818.2  | 825.5  | 761.6  | 736.7  | 708.7  | 715.4  | 744.6  |
| 50°   | 5388.5 | 4654.2 | 2091.4 | 862.6  | 772.0  | 776.8  | 724.5  | 679.5  | 651.5  | 665.5  | 691.0  |
| 52.5° | 6496.2 | 5401.3 | 2099.9 | 781.7  | 721.5  | 719.0  | 700.2  | 645.4  | 622.9  | 637.5  | 666.7  |
| 55°   | 7555.9 | 6043.6 | 2163.2 | 730.6  | 669.1  | 673.4  | 680.7  | 634.5  | 609.5  | 622.9  | 653.3  |
| 57.5° | 8478.1 | 6551.0 | 2139.5 | 676.4  | 620.5  | 640.0  | 659.4  | 619.3  | 600.4  | 619.9  | 650.3  |
| 60°   | 9122.9 | 6786.4 | 1952.1 | 624.7  | 584.6  | 611.4  | 649.1  | 617.4  | 615.0  | 657.0  | 693.5  |
| 62.5° | 9358.4 | 6699.4 | 1587.1 | 584.0  | 563.3  | 607.7  | 672.8  | 657.6  | 660.0  | 711.7  | 762.2  |
| 65°   | 9014.7 | 6241.9 | 1183.8 | 557.8  | 546.9  | 625.4  | 727.5  | 681.3  | 647.9  | 690.4  | 736.7  |
| 67.5° | 8037.1 | 5428.6 | 865.0  | 535.3  | 528.0  | 653.3  | 778.0  | 678.9  | 616.8  | 660.0  | 697.7  |
| 70°   | 6502.3 | 4285.0 | 669.8  | 506.7  | 503.1  | 634.5  | 782.9  | 660.6  | 583.4  | 611.4  | 632.7  |
| 72.5° | 4455.3 | 2933.9 | 554.8  | 479.4  | 459.9  | 562.1  | 743.4  | 619.9  | 543.2  | 559.7  | 577.3  |
| 75°   | 2489.8 | 1646.7 | 466.6  | 445.3  | 402.7  | 500.6  | 697.1  | 595.5  | 513.4  | 518.3  | 542.6  |
| 77.5° | 1117.5 | 712.3  | 396.0  | 400.3  | 351.0  | 442.9  | 636.9  | 556.6  | 467.8  | 456.8  | 481.2  |
| 80°   | 422.8  | 347.3  | 321.2  | 338.2  | 295.0  | 383.8  | 574.3  | 521.3  | 419.7  | 405.7  | 419.7  |
| 82.5° | 245.2  | 210.5  | 238.5  | 260.4  | 234.2  | 352.8  | 548.1  | 489.1  | 369.9  | 334.6  | 346.7  |
| 85°   | 113.8  | 108.9  | 143.0  | 169.1  | 163.6  | 275.0  | 469.0  | 368.0  | 263.4  | 222.6  | 246.4  |
| 87.5° | 29.8   | 33.5   | 50.5   | 59.6   | 60.8   | 94.3   | 180.7  | 136.9  | 102.8  | 77.9   | 74.8   |
| 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)