

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: P597439

Luminaire Tested: **PMM-SA3D-722-U-T4FT-HSS**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P597439  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-13)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA3D-722-U-T4FT-HSS  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10957 lumens  
Efficiency: N/A  
Efficacy: 57.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

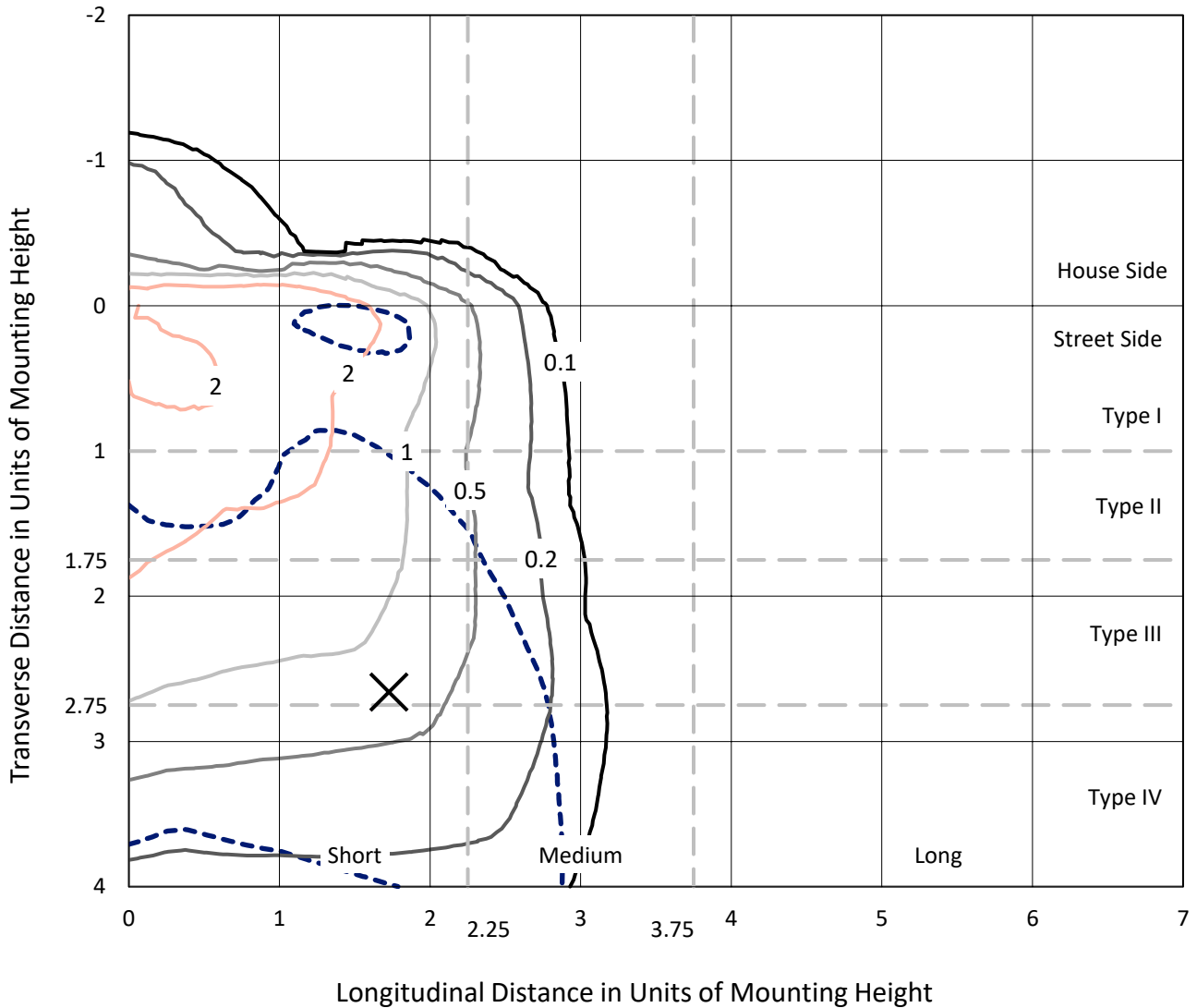
Input Watts (W): 192  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

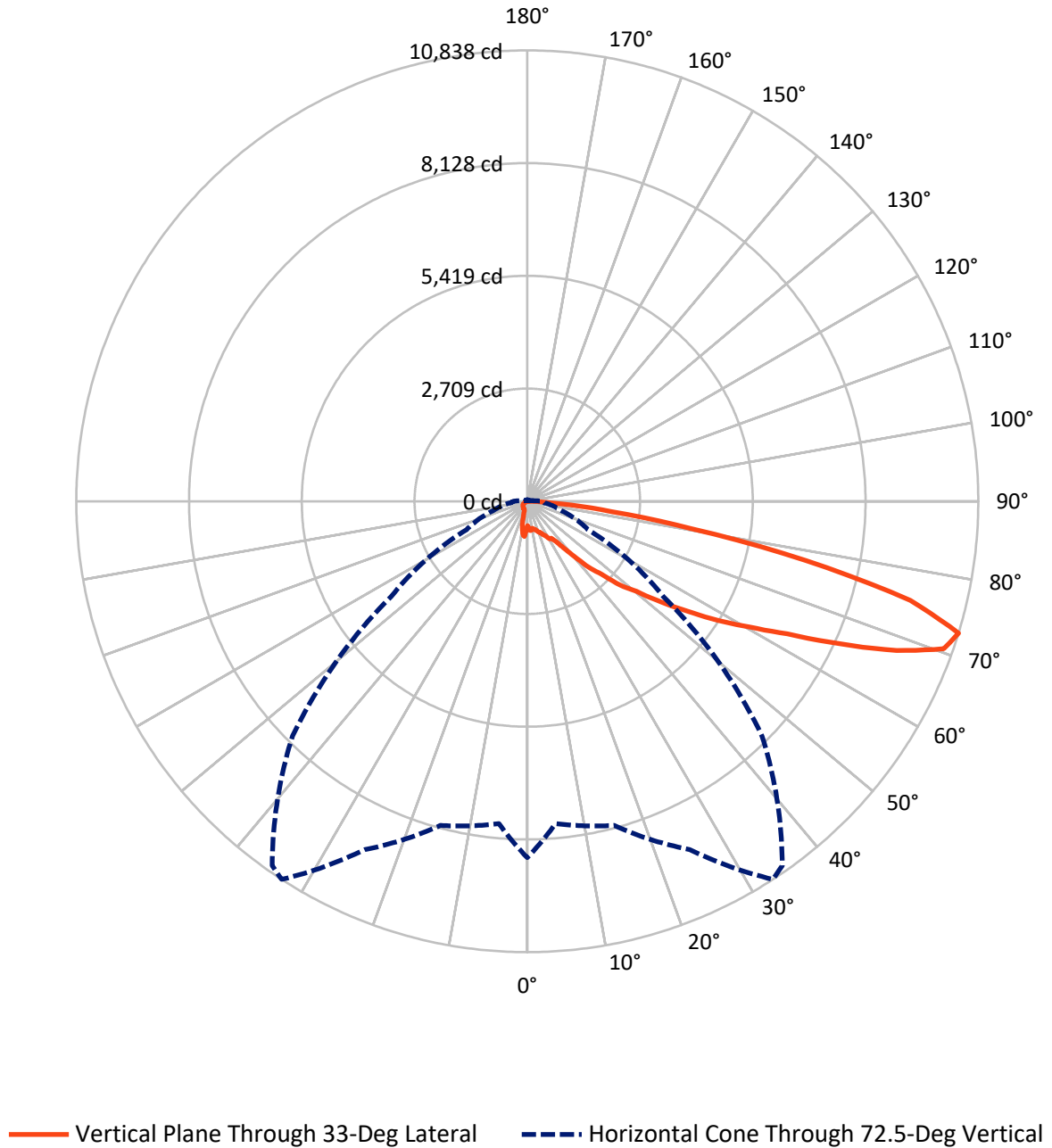
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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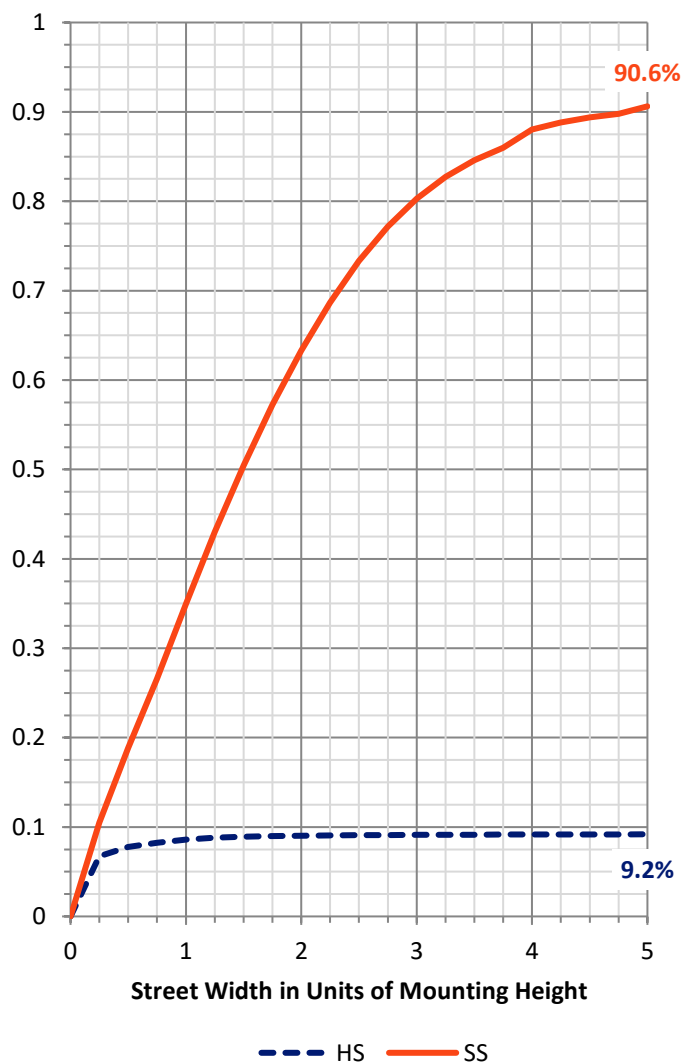
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1013.1   | 0.0    | 1013.1  |
|                    | % Fixture | 9.2      | 0.0    | 9.2     |
| <b>Street Side</b> | Lumens    | 9943.9   | 0.0    | 9943.9  |
|                    | % Fixture | 90.8     | 0.0    | 90.8    |
| <b>Total</b>       | Lumens    | 10957.0  | 0.0    | 10957.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 75.4    | 0.7       |
| 10°-20°   | 224.8   | 2.1       |
| 20°-30°   | 381.2   | 3.5       |
| 30°-40°   | 697.6   | 6.4       |
| 40°-50°   | 1472.4  | 13.4      |
| 50°-60°   | 2463.4  | 22.5      |
| 60°-70°   | 3297.4  | 30.1      |
| 70°-80°   | 2153.9  | 19.7      |
| 80°-90°   | 191.0   | 1.7       |
| 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°    | 10957.0 | 100.0     |
| 0°-180°   | 10957.0 | 100.0     |

**Coefficient of Utilization**



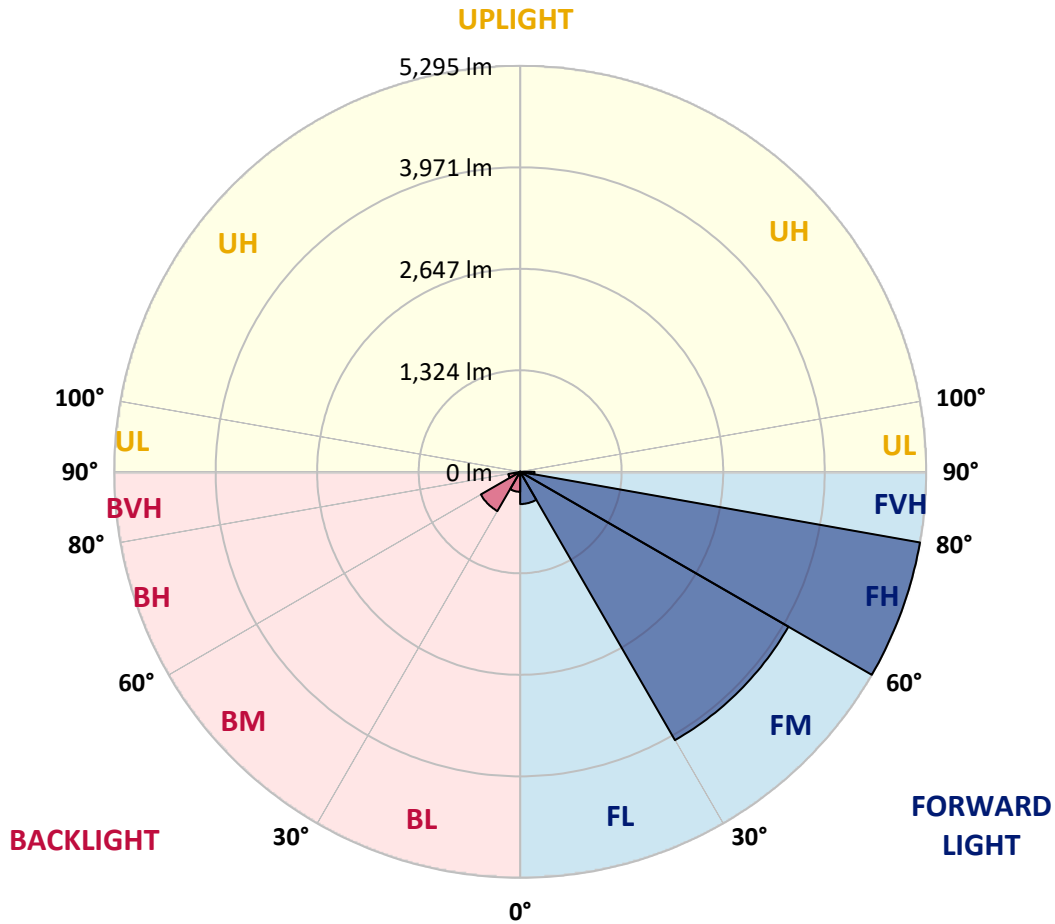
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 CATALOG NUMBER: PMM-SA3D-722-U-T4FT-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 420.6  | 3.8       |                         |      |         |
| FM (30°-60°)   | 4041.1 | 36.9      |                         |      |         |
| FH (60°-80°)   | 5294.9 | 48.3      |                         |      | G3/7500 |
| FVH (80°-90°)  | 187.3  | 1.7       |                         |      | G2/225  |
| BL (0°-30°)    | 260.8  | 2.4       | B1/500                  |      |         |
| BM (30°-60°)   | 592.3  | 5.4       | B1/1000                 |      |         |
| BH (60°-80°)   | 156.4  | 1.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 3.7    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type IV Short





REPORT NUMBER: P597439

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 33°     | 35°     | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 0°    | 582.8  | 582.8  | 582.8  | 582.8  | 582.8   | 582.8   | 582.8  | 582.8  | 582.8  | 582.8  | 582.8  |
| 2.5°  | 694.7  | 668.0  | 629.0  | 631.5  | 638.1   | 643.6   | 658.2  | 652.1  | 640.6  | 640.0  | 694.7  |
| 5°    | 736.1  | 706.3  | 703.8  | 707.5  | 705.7   | 715.4   | 703.2  | 742.8  | 776.2  | 816.4  | 880.9  |
| 7.5°  | 716.0  | 702.0  | 684.4  | 702.6  | 702.0   | 697.2   | 705.1  | 785.4  | 866.3  | 917.4  | 1023.8 |
| 10°   | 658.2  | 642.4  | 655.8  | 661.9  | 657.6   | 678.9   | 731.8  | 797.5  | 894.3  | 1001.3 | 1053.0 |
| 12.5° | 641.8  | 651.5  | 656.4  | 656.4  | 697.2   | 708.1   | 789.0  | 851.1  | 966.0  | 1050.6 | 1200.9 |
| 15°   | 705.7  | 724.5  | 691.1  | 683.8  | 696.5   | 702.6   | 792.7  | 867.5  | 1014.7 | 1169.2 | 1295.1 |
| 17.5° | 807.3  | 806.0  | 754.3  | 725.7  | 745.8   | 760.4   | 810.3  | 897.9  | 984.3  | 1262.3 | 1444.8 |
| 20°   | 877.2  | 878.4  | 785.4  | 725.7  | 792.1   | 800.6   | 855.9  | 925.9  | 994.0  | 1309.1 | 1542.7 |
| 22.5° | 967.3  | 935.0  | 832.2  | 774.4  | 819.4   | 827.3   | 888.2  | 943.5  | 1043.9 | 1303.7 | 1668.1 |
| 25°   | 1040.9 | 1020.2 | 890.6  | 850.5  | 890.6   | 879.7   | 935.0  | 1018.4 | 1097.4 | 1390.7 | 1741.7 |
| 27.5° | 1155.2 | 1119.9 | 932.0  | 939.3  | 936.8   | 944.7   | 957.5  | 1085.3 | 1191.7 | 1394.9 | 1912.0 |
| 30°   | 1261.7 | 1241.0 | 1024.4 | 1024.4 | 1048.2  | 1033.0  | 1042.1 | 1196.6 | 1283.0 | 1493.5 | 2103.6 |
| 32.5° | 1371.8 | 1373.0 | 1133.3 | 1075.5 | 1056.7  | 1119.3  | 1180.8 | 1250.7 | 1393.1 | 1662.6 | 2396.8 |
| 35°   | 1663.2 | 1638.9 | 1342.0 | 1197.8 | 1182.6  | 1179.0  | 1277.5 | 1466.7 | 1588.4 | 1882.8 | 2791.7 |
| 37.5° | 2250.2 | 2165.7 | 1790.9 | 1475.2 | 1418.0  | 1398.6  | 1510.5 | 1704.6 | 1825.6 | 2206.4 | 3444.4 |
| 40°   | 2852.5 | 2697.4 | 2281.3 | 1925.4 | 1739.8  | 1655.9  | 1786.1 | 1950.9 | 2166.3 | 2564.1 | 4048.5 |
| 42.5° | 3381.1 | 3189.5 | 2650.5 | 2410.8 | 2169.3  | 2132.8  | 2010.5 | 2278.8 | 2652.9 | 3084.9 | 4640.4 |
| 45°   | 3896.4 | 3519.2 | 2979.0 | 2789.2 | 2496.0  | 2516.7  | 2475.3 | 2707.7 | 3158.5 | 3655.5 | 5165.4 |
| 47.5° | 4251.0 | 3912.2 | 3381.7 | 3135.4 | 3018.0  | 2896.9  | 3225.4 | 3466.9 | 3608.6 | 4018.1 | 5619.2 |
| 50°   | 4633.1 | 4290.0 | 3727.9 | 3555.7 | 3401.2  | 3523.5  | 3949.9 | 3982.2 | 3970.6 | 4356.3 | 5928.2 |
| 52.5° | 5126.4 | 4721.9 | 4125.1 | 3930.5 | 4018.1  | 4139.7  | 4631.9 | 4637.9 | 4292.4 | 4641.0 | 6150.9 |
| 55°   | 5582.7 | 5134.3 | 4654.4 | 4470.7 | 4653.8  | 4756.6  | 5302.2 | 5102.1 | 4479.8 | 4834.4 | 6260.4 |
| 57.5° | 6225.7 | 5706.8 | 5358.2 | 5034.6 | 5405.7  | 5307.1  | 5891.7 | 5594.3 | 4690.3 | 4962.8 | 6220.2 |
| 60°   | 7038.4 | 6427.7 | 6078.5 | 5736.0 | 6133.8  | 6200.8  | 6467.2 | 5840.0 | 4771.8 | 5004.8 | 5978.7 |
| 62.5° | 7865.2 | 7250.7 | 6791.5 | 6559.1 | 7010.5  | 7230.7  | 7000.1 | 5962.3 | 4673.8 | 4922.6 | 5431.8 |
| 65°   | 8890.8 | 8104.2 | 7567.7 | 7431.4 | 8267.9  | 8591.5  | 7630.3 | 5992.1 | 4484.6 | 4470.7 | 4367.2 |
| 67.5° | 9593.4 | 8827.6 | 8335.4 | 8563.5 | 9574.0  | 9600.1  | 8196.1 | 6001.2 | 3847.7 | 3500.4 | 2866.5 |
| 70°   | 9760.1 | 8940.1 | 8719.9 | 9391.5 | 10616.1 | 10286.9 | 8378.6 | 5538.9 | 2853.7 | 2077.5 | 1310.4 |
| 72.5° | 8567.8 | 7778.2 | 8064.7 | 9235.1 | 10837.5 | 10686.6 | 7975.3 | 3996.2 | 1606.6 | 831.0  | 402.1  |
| 75°   | 5255.4 | 4777.9 | 6049.9 | 7829.9 | 9513.1  | 9415.8  | 6222.1 | 2064.7 | 647.3  | 332.2  | 150.3  |
| 77.5° | 2285.5 | 2122.5 | 3157.3 | 5195.2 | 6835.9  | 6748.9  | 3645.8 | 760.4  | 334.6  | 233.6  | 76.0   |
| 80°   | 756.2  | 733.7  | 1196.0 | 2460.1 | 4004.1  | 3927.4  | 1536.0 | 316.3  | 238.5  | 187.4  | 42.6   |
| 82.5° | 179.5  | 178.2  | 417.3  | 1132.1 | 2039.7  | 1975.9  | 471.5  | 174.6  | 172.8  | 147.8  | 22.5   |
| 85°   | 45.0   | 46.2   | 115.6  | 462.9  | 828.6   | 730.6   | 122.9  | 87.0   | 121.7  | 100.4  | 11.6   |
| 87.5° | 0.0    | 0.0    | 29.8   | 66.3   | 125.3   | 78.5    | 13.4   | 23.1   | 34.1   | 35.9   | 6.1    |
| 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°    | 582.8  | 582.8  | 582.8  | 582.8  | 582.8 | 582.8 | 582.8 | 582.8 | 582.8 | 582.8 | 582.8 |
| 2.5°  | 706.9  | 700.2  | 645.4  | 658.8  | 679.5 | 677.7 | 691.1 | 680.7 | 671.6 | 716.6 | 712.4 |
| 5°    | 899.1  | 862.6  | 845.6  | 869.3  | 856.5 | 826.7 | 851.7 | 847.4 | 840.1 | 855.3 | 866.9 |
| 7.5°  | 1043.3 | 1009.8 | 994.6  | 944.7  | 872.4 | 815.2 | 824.3 | 803.0 | 782.9 | 806.7 | 831.0 |
| 10°   | 1090.7 | 1072.5 | 1070.7 | 973.3  | 905.2 | 822.5 | 724.5 | 640.0 | 617.5 | 587.7 | 601.0 |
| 12.5° | 1219.7 | 1230.7 | 1161.9 | 1048.2 | 916.8 | 758.0 | 584.0 | 464.2 | 415.5 | 383.9 | 385.7 |
| 15°   | 1325.6 | 1363.9 | 1264.1 | 1059.7 | 806.7 | 577.9 | 388.7 | 281.1 | 250.6 | 242.7 | 240.3 |
| 17.5° | 1483.1 | 1520.2 | 1295.8 | 977.6  | 650.3 | 391.8 | 250.0 | 219.0 | 220.8 | 226.3 | 225.1 |
| 20°   | 1599.9 | 1594.4 | 1268.4 | 832.2  | 479.4 | 256.7 | 209.3 | 205.0 | 214.7 | 230.6 | 226.9 |
| 22.5° | 1712.5 | 1674.7 | 1251.3 | 697.8  | 310.3 | 206.2 | 202.0 | 201.4 | 210.5 | 225.7 | 230.0 |
| 25°   | 1792.8 | 1798.8 | 1222.8 | 546.3  | 225.7 | 191.6 | 195.3 | 200.8 | 209.9 | 226.3 | 223.9 |
| 27.5° | 2022.7 | 1852.4 | 1103.5 | 396.6  | 190.4 | 183.7 | 192.8 | 203.8 | 206.8 | 227.5 | 228.1 |
| 30°   | 2171.8 | 2054.3 | 1025.7 | 267.1  | 175.8 | 169.7 | 188.0 | 202.6 | 206.2 | 233.0 | 234.8 |
| 32.5° | 2431.5 | 2141.3 | 935.6  | 198.3  | 163.6 | 165.5 | 177.0 | 196.5 | 213.5 | 242.1 | 243.3 |
| 35°   | 2754.5 | 2420.6 | 772.6  | 178.2  | 159.4 | 156.3 | 161.8 | 184.3 | 212.3 | 243.3 | 249.4 |
| 37.5° | 3369.6 | 2587.9 | 612.6  | 172.8  | 159.4 | 153.9 | 159.4 | 172.8 | 208.7 | 255.5 | 268.3 |
| 40°   | 3781.4 | 2928.5 | 441.7  | 171.6  | 156.3 | 151.5 | 153.3 | 166.7 | 198.3 | 248.2 | 267.1 |
| 42.5° | 4288.8 | 3072.1 | 325.5  | 168.5  | 153.3 | 146.0 | 147.2 | 164.3 | 188.0 | 233.0 | 247.0 |
| 45°   | 4704.3 | 3176.7 | 256.1  | 167.3  | 146.0 | 143.6 | 146.0 | 162.4 | 178.2 | 200.1 | 212.9 |
| 47.5° | 5020.0 | 3298.4 | 205.6  | 159.4  | 144.2 | 143.6 | 140.5 | 152.1 | 161.8 | 167.3 | 175.8 |
| 50°   | 5251.1 | 3271.0 | 170.3  | 147.2  | 138.1 | 141.7 | 136.3 | 138.1 | 140.5 | 137.5 | 147.2 |
| 52.5° | 5392.9 | 3172.5 | 141.7  | 132.6  | 130.8 | 133.8 | 127.1 | 121.7 | 117.4 | 115.0 | 121.1 |
| 55°   | 5444.6 | 2974.8 | 120.5  | 113.8  | 118.0 | 119.2 | 113.8 | 104.0 | 96.7  | 93.1  | 97.9  |
| 57.5° | 5346.7 | 2673.6 | 104.6  | 94.3   | 104.0 | 104.0 | 96.7  | 86.4  | 77.9  | 71.8  | 76.7  |
| 60°   | 5098.5 | 2340.9 | 93.1   | 78.5   | 88.8  | 89.4  | 80.9  | 70.0  | 63.3  | 57.2  | 60.2  |
| 62.5° | 4636.1 | 1978.3 | 81.5   | 68.1   | 76.7  | 77.3  | 66.9  | 56.6  | 51.7  | 45.0  | 47.5  |
| 65°   | 3711.5 | 1512.9 | 69.4   | 60.2   | 66.3  | 64.5  | 55.4  | 48.1  | 42.0  | 35.9  | 37.1  |
| 67.5° | 2409.0 | 933.8  | 60.2   | 54.8   | 56.0  | 54.1  | 46.8  | 42.0  | 35.3  | 30.4  | 31.0  |
| 70°   | 1078.6 | 402.1  | 52.9   | 49.3   | 48.7  | 45.6  | 39.5  | 38.9  | 34.7  | 30.4  | 30.4  |
| 72.5° | 332.8  | 151.5  | 45.6   | 44.4   | 42.0  | 38.3  | 34.7  | 37.1  | 34.1  | 29.2  | 28.6  |
| 75°   | 131.4  | 69.4   | 37.7   | 37.7   | 36.5  | 31.6  | 31.0  | 33.5  | 31.6  | 26.8  | 25.6  |
| 77.5° | 68.7   | 43.8   | 31.0   | 32.2   | 31.6  | 24.3  | 28.0  | 30.4  | 29.2  | 22.5  | 18.9  |
| 80°   | 40.8   | 26.8   | 23.1   | 26.2   | 25.6  | 17.0  | 21.3  | 19.5  | 14.0  | 6.7   | 1.8   |
| 82.5° | 22.5   | 12.2   | 10.3   | 15.2   | 15.2  | 6.1   | 11.0  | 9.7   | 5.5   | 0.0   | 0.0   |
| 85°   | 11.0   | 8.5    | 7.9    | 8.5    | 6.1   | 1.8   | 5.5   | 5.5   | 3.0   | 0.0   | 0.0   |
| 87.5° | 5.5    | 4.9    | 3.7    | 3.0    | 2.4   | 0.0   | 1.8   | 2.4   | 0.0   | 0.0   | 0.0   |
| 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)