

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: P367849

Luminaire Tested: **PMM-SA3B-740-U-T4FT-HSS**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P367849  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA3B-740-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: 11008 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

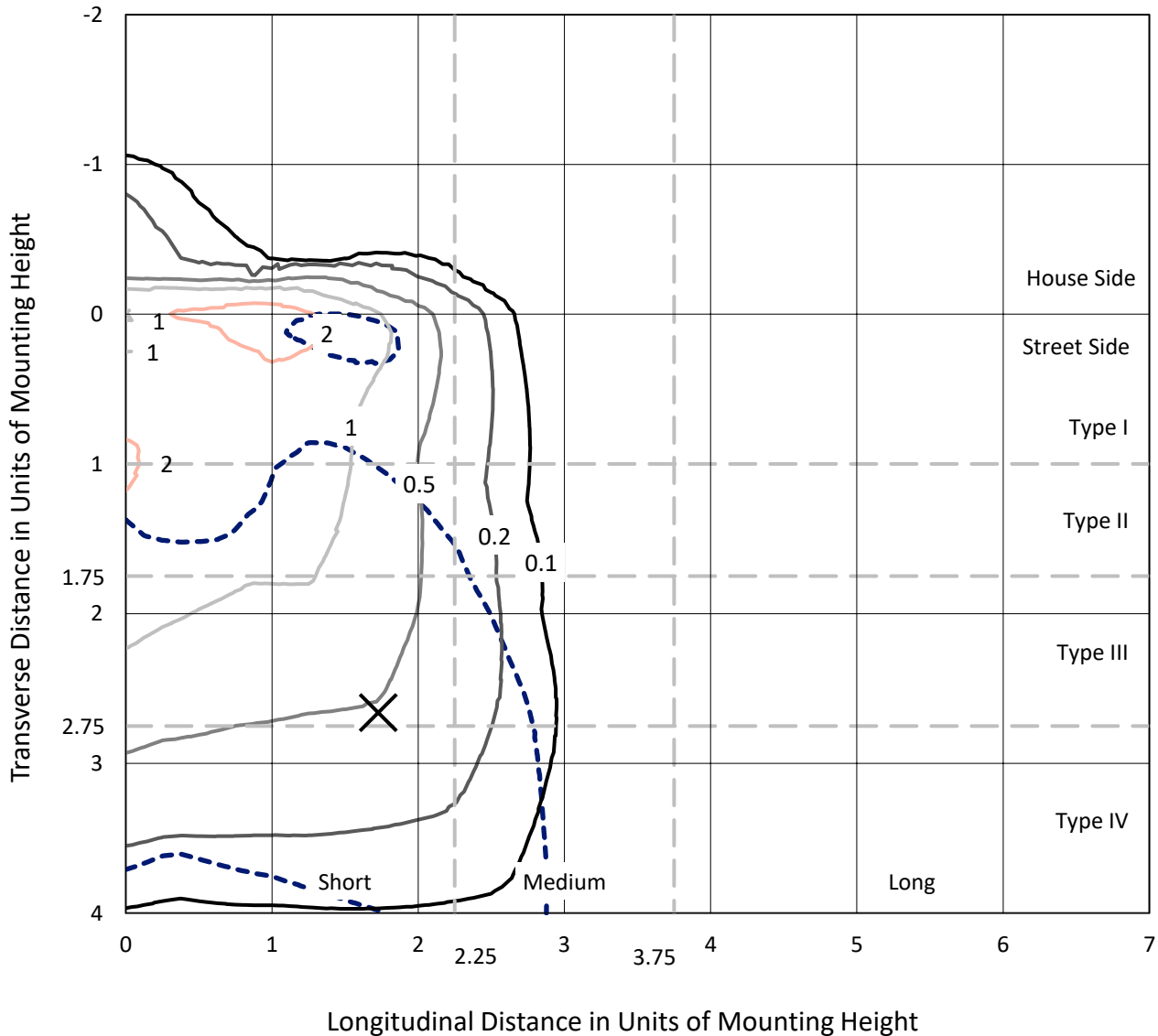
Input Watts (W): 126  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

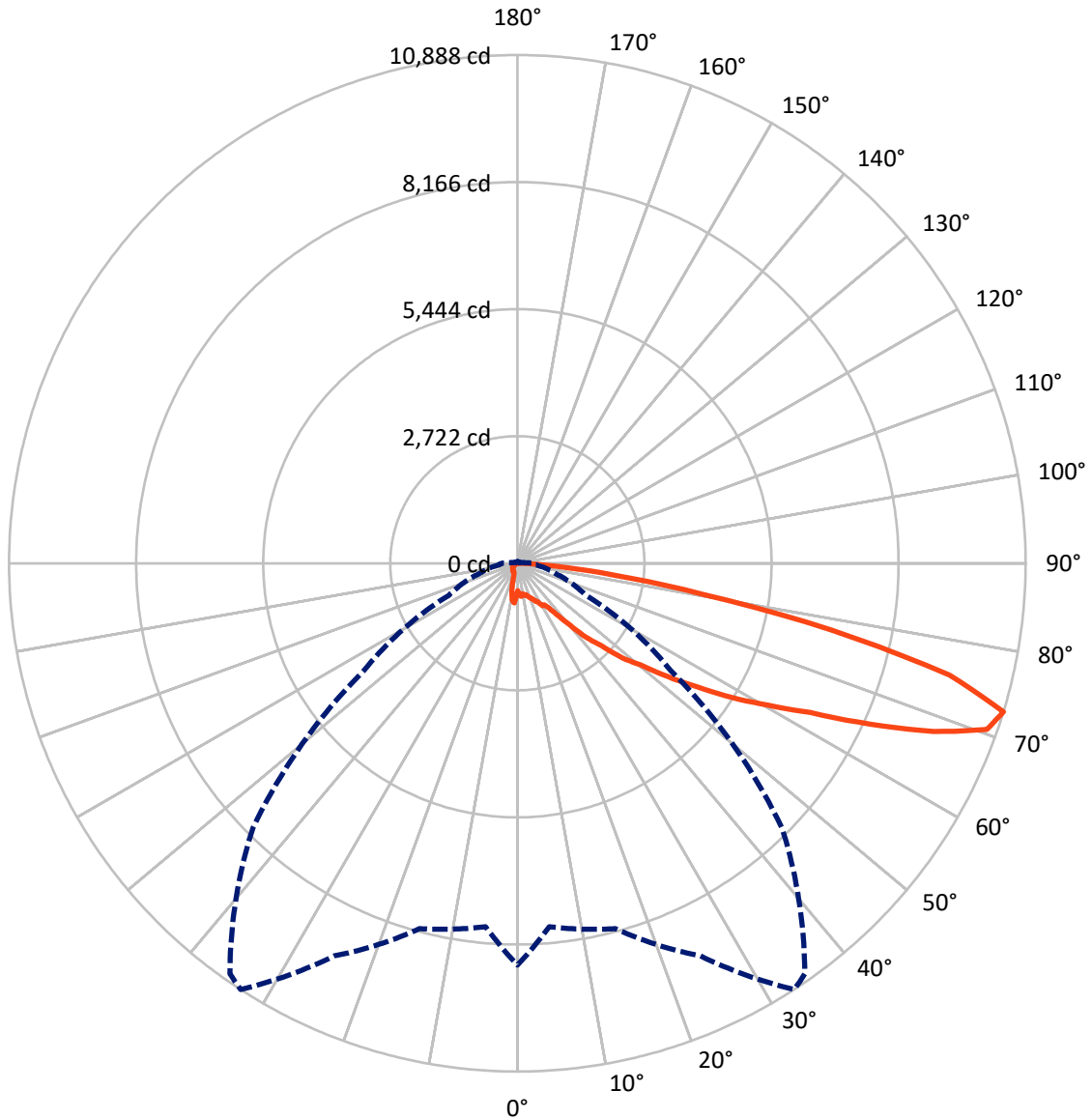
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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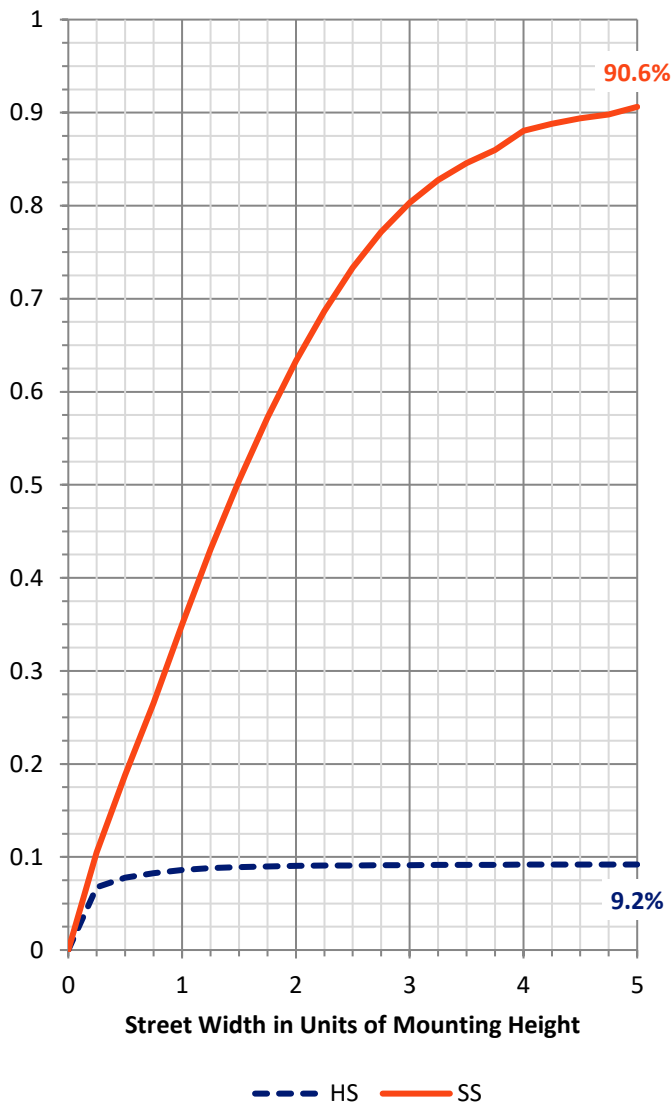
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1017.8   | 0.0    | 1017.8  |
|                    | % Fixture | 9.2      | 0.0    | 9.2     |
| <b>Street Side</b> | Lumens    | 9990.2   | 0.0    | 9990.2  |
|                    | % Fixture | 90.8     | 0.0    | 90.8    |
| <b>Total</b>       | Lumens    | 11008.0  | 0.0    | 11008.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 75.8    | 0.7       |
| 10°-20°   | 225.8   | 2.1       |
| 20°-30°   | 383.0   | 3.5       |
| 30°-40°   | 700.9   | 6.4       |
| 40°-50°   | 1479.2  | 13.4      |
| 50°-60°   | 2474.9  | 22.5      |
| 60°-70°   | 3312.7  | 30.1      |
| 70°-80°   | 2163.9  | 19.7      |
| 80°-90°   | 191.8   | 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°    | 11008.0 | 100.0     |
| 0°-180°   | 11008.0 | 100.0     |



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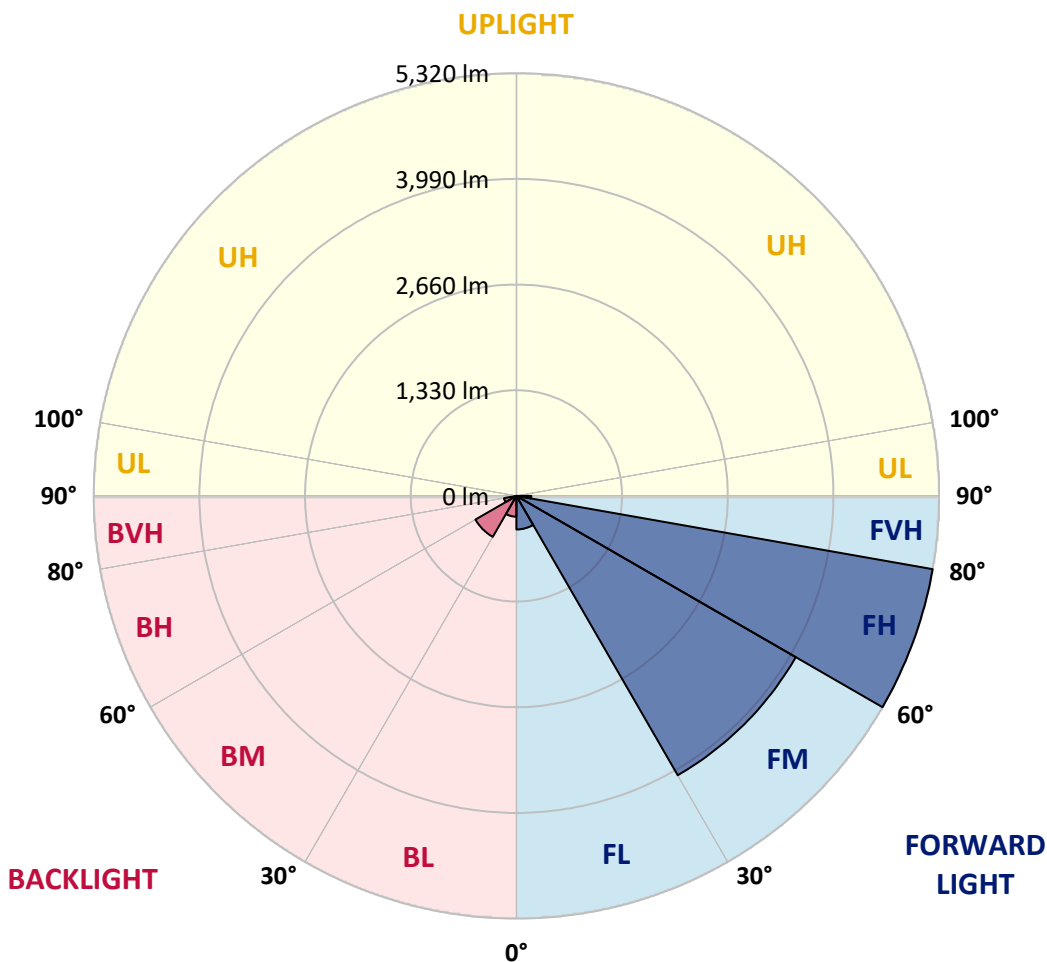
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 422.6  | 3.8       |                         |      |         |
| FM (30°-60°)   | 4059.9 | 36.9      |                         |      |         |
| FH (60°-80°)   | 5319.5 | 48.3      |                         |      | G3/7500 |
| FVH (80°-90°)  | 188.1  | 1.7       |                         |      | G2/225  |
| BL (0°-30°)    | 262.0  | 2.4       | B1/500                  |      |         |
| BM (30°-60°)   | 595.0  | 5.4       | B1/1000                 |      |         |
| BH (60°-80°)   | 157.1  | 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





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 33°     | 35°     | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 0°    | 585.5  | 585.5  | 585.5  | 585.5  | 585.5   | 585.5   | 585.5  | 585.5  | 585.5  | 585.5  | 585.5  |
| 2.5°  | 698.0  | 671.1  | 631.9  | 634.4  | 641.1   | 646.6   | 661.3  | 655.2  | 643.6  | 642.9  | 698.0  |
| 5°    | 739.5  | 709.6  | 707.1  | 710.8  | 709.0   | 718.7   | 706.5  | 746.2  | 779.8  | 820.2  | 885.0  |
| 7.5°  | 719.3  | 705.3  | 687.6  | 705.9  | 705.3   | 700.4   | 708.3  | 789.0  | 870.3  | 921.6  | 1028.6 |
| 10°   | 661.3  | 645.4  | 658.8  | 664.9  | 660.7   | 682.1   | 735.2  | 801.2  | 898.4  | 1006.0 | 1057.9 |
| 12.5° | 644.8  | 654.6  | 659.4  | 659.4  | 700.4   | 711.4   | 792.7  | 855.0  | 970.5  | 1055.5 | 1206.4 |
| 15°   | 709.0  | 727.9  | 694.3  | 687.0  | 699.8   | 705.9   | 796.4  | 871.5  | 1019.4 | 1174.7 | 1301.2 |
| 17.5° | 811.0  | 809.8  | 757.8  | 729.1  | 749.3   | 764.0   | 814.1  | 902.1  | 988.9  | 1268.2 | 1451.5 |
| 20°   | 881.3  | 882.5  | 789.0  | 729.1  | 795.7   | 804.3   | 859.9  | 930.2  | 998.6  | 1315.2 | 1549.9 |
| 22.5° | 971.8  | 939.4  | 836.1  | 778.0  | 823.2   | 831.2   | 892.3  | 947.9  | 1048.8 | 1309.7 | 1675.8 |
| 25°   | 1045.7 | 1024.9 | 894.7  | 854.4  | 894.7   | 883.7   | 939.4  | 1023.1 | 1102.5 | 1397.1 | 1749.8 |
| 27.5° | 1160.6 | 1125.2 | 936.3  | 943.6  | 941.2   | 949.1   | 962.0  | 1090.3 | 1197.3 | 1401.4 | 1920.9 |
| 30°   | 1267.6 | 1246.8 | 1029.2 | 1029.2 | 1053.0  | 1037.8  | 1046.9 | 1202.2 | 1289.0 | 1500.4 | 2113.4 |
| 32.5° | 1378.2 | 1379.4 | 1138.6 | 1080.5 | 1061.6  | 1124.5  | 1186.3 | 1256.6 | 1399.6 | 1670.3 | 2408.0 |
| 35°   | 1670.9 | 1646.5 | 1348.2 | 1203.4 | 1188.1  | 1184.4  | 1283.5 | 1473.5 | 1595.8 | 1891.6 | 2804.6 |
| 37.5° | 2260.7 | 2175.8 | 1799.3 | 1482.1 | 1424.6  | 1405.1  | 1517.5 | 1712.5 | 1834.1 | 2216.7 | 3460.4 |
| 40°   | 2865.8 | 2709.9 | 2291.9 | 1934.3 | 1747.9  | 1663.6  | 1794.4 | 1960.0 | 2176.4 | 2576.1 | 4067.3 |
| 42.5° | 3396.9 | 3204.3 | 2662.9 | 2422.1 | 2179.4  | 2142.8  | 2019.9 | 2289.4 | 2665.3 | 3099.2 | 4662.0 |
| 45°   | 3914.5 | 3535.6 | 2992.9 | 2802.2 | 2507.6  | 2528.4  | 2486.8 | 2720.3 | 3173.2 | 3672.5 | 5189.4 |
| 47.5° | 4270.8 | 3930.4 | 3397.5 | 3150.0 | 3032.0  | 2910.4  | 3240.4 | 3483.0 | 3625.4 | 4036.8 | 5645.3 |
| 50°   | 4654.6 | 4309.9 | 3745.2 | 3572.3 | 3417.0  | 3539.9  | 3968.3 | 4000.7 | 3989.1 | 4376.6 | 5955.8 |
| 52.5° | 5150.3 | 4743.9 | 4144.3 | 3948.7 | 4036.8  | 4159.0  | 4653.4 | 4659.5 | 4312.4 | 4662.6 | 6179.5 |
| 55°   | 5608.7 | 5158.2 | 4676.0 | 4491.5 | 4675.4  | 4778.7  | 5326.9 | 5125.9 | 4500.6 | 4856.9 | 6289.5 |
| 57.5° | 6254.7 | 5733.4 | 5383.2 | 5058.0 | 5430.8  | 5331.8  | 5919.1 | 5620.3 | 4712.1 | 4985.9 | 6249.2 |
| 60°   | 7071.2 | 6457.6 | 6106.8 | 5762.7 | 6162.4  | 6229.6  | 6497.3 | 5867.2 | 4794.0 | 5028.1 | 6006.5 |
| 62.5° | 7901.8 | 7284.5 | 6823.1 | 6589.6 | 7043.1  | 7264.3  | 7032.7 | 5990.0 | 4695.6 | 4945.6 | 5457.1 |
| 65°   | 8932.2 | 8142.0 | 7602.9 | 7466.0 | 8306.4  | 8631.5  | 7665.9 | 6020.0 | 4505.5 | 4491.5 | 4387.6 |
| 67.5° | 9638.1 | 8868.6 | 8374.2 | 8603.4 | 9618.5  | 9644.8  | 8234.2 | 6029.2 | 3865.6 | 3516.7 | 2879.8 |
| 70°   | 9805.6 | 8981.7 | 8760.5 | 9435.2 | 10665.5 | 10334.8 | 8417.6 | 5564.7 | 2867.0 | 2087.1 | 1316.5 |
| 72.5° | 8607.7 | 7814.4 | 8102.2 | 9278.1 | 10887.9 | 10736.4 | 8012.4 | 4014.8 | 1614.1 | 834.9  | 404.0  |
| 75°   | 5279.9 | 4800.1 | 6078.1 | 7866.3 | 9557.4  | 9459.6  | 6251.0 | 2074.3 | 650.3  | 333.7  | 151.0  |
| 77.5° | 2296.2 | 2132.4 | 3172.0 | 5219.4 | 6867.7  | 6780.3  | 3662.7 | 764.0  | 336.1  | 234.7  | 76.4   |
| 80°   | 759.7  | 737.1  | 1201.6 | 2471.6 | 4022.7  | 3945.7  | 1543.2 | 317.8  | 239.6  | 188.2  | 42.8   |
| 82.5° | 180.3  | 179.1  | 419.3  | 1137.4 | 2049.2  | 1985.1  | 473.7  | 175.4  | 173.6  | 148.5  | 22.6   |
| 85°   | 45.2   | 46.4   | 116.1  | 465.1  | 832.4   | 734.0   | 123.5  | 87.4   | 122.2  | 100.8  | 11.6   |
| 87.5° | 0.0    | 0.0    | 29.9   | 66.6   | 125.9   | 78.8    | 13.4   | 23.2   | 34.2   | 36.1   | 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°    | 585.5  | 585.5  | 585.5  | 585.5  | 585.5 | 585.5 | 585.5 | 585.5 | 585.5 | 585.5 | 585.5 |
| 2.5°  | 710.2  | 703.5  | 648.4  | 661.9  | 682.7 | 680.8 | 694.3 | 683.9 | 674.7 | 720.0 | 715.7 |
| 5°    | 903.3  | 866.6  | 849.5  | 873.4  | 860.5 | 830.6 | 855.6 | 851.4 | 844.0 | 859.3 | 870.9 |
| 7.5°  | 1048.2 | 1014.5 | 999.3  | 949.1  | 876.4 | 819.0 | 828.1 | 806.7 | 786.6 | 810.4 | 834.9 |
| 10°   | 1095.8 | 1077.5 | 1075.7 | 977.9  | 909.4 | 826.3 | 727.9 | 642.9 | 620.3 | 590.4 | 603.8 |
| 12.5° | 1225.4 | 1236.4 | 1167.3 | 1053.0 | 921.0 | 761.5 | 586.7 | 466.3 | 417.4 | 385.6 | 387.5 |
| 15°   | 1331.7 | 1370.2 | 1270.0 | 1064.7 | 810.4 | 580.6 | 390.5 | 282.4 | 251.8 | 243.9 | 241.4 |
| 17.5° | 1490.0 | 1527.3 | 1301.8 | 982.1  | 653.3 | 393.6 | 251.2 | 220.0 | 221.9 | 227.4 | 226.1 |
| 20°   | 1607.4 | 1601.9 | 1274.3 | 836.1  | 481.6 | 257.9 | 210.2 | 206.0 | 215.7 | 231.6 | 228.0 |
| 22.5° | 1720.4 | 1682.5 | 1257.2 | 701.0  | 311.7 | 207.2 | 202.9 | 202.3 | 211.5 | 226.7 | 231.0 |
| 25°   | 1801.1 | 1807.2 | 1228.4 | 548.8  | 226.7 | 192.5 | 196.2 | 201.7 | 210.9 | 227.4 | 224.9 |
| 27.5° | 2032.1 | 1861.0 | 1108.7 | 398.5  | 191.3 | 184.6 | 193.7 | 204.7 | 207.8 | 228.6 | 229.2 |
| 30°   | 2181.9 | 2063.9 | 1030.4 | 268.3  | 176.6 | 170.5 | 188.9 | 203.5 | 207.2 | 234.1 | 235.9 |
| 32.5° | 2442.8 | 2151.3 | 940.0  | 199.2  | 164.4 | 166.2 | 177.8 | 197.4 | 214.5 | 243.2 | 244.5 |
| 35°   | 2767.4 | 2431.8 | 776.2  | 179.1  | 160.1 | 157.1 | 162.6 | 185.2 | 213.3 | 244.5 | 250.6 |
| 37.5° | 3385.3 | 2599.9 | 615.4  | 173.6  | 160.1 | 154.6 | 160.1 | 173.6 | 209.6 | 256.7 | 269.5 |
| 40°   | 3799.0 | 2942.2 | 443.7  | 172.3  | 157.1 | 152.2 | 154.0 | 167.5 | 199.2 | 249.4 | 268.3 |
| 42.5° | 4308.7 | 3086.4 | 327.0  | 169.3  | 154.0 | 146.7 | 147.9 | 165.0 | 188.9 | 234.1 | 248.1 |
| 45°   | 4726.2 | 3191.5 | 257.3  | 168.1  | 146.7 | 144.2 | 146.7 | 163.2 | 179.1 | 201.1 | 213.9 |
| 47.5° | 5043.3 | 3313.7 | 206.6  | 160.1  | 144.8 | 144.2 | 141.2 | 152.8 | 162.6 | 168.1 | 176.6 |
| 50°   | 5275.6 | 3286.2 | 171.1  | 147.9  | 138.7 | 142.4 | 136.9 | 138.7 | 141.2 | 138.1 | 147.9 |
| 52.5° | 5418.0 | 3187.2 | 142.4  | 133.2  | 131.4 | 134.5 | 127.7 | 122.2 | 118.0 | 115.5 | 121.6 |
| 55°   | 5469.9 | 2988.6 | 121.0  | 114.3  | 118.6 | 119.8 | 114.3 | 104.5 | 97.2  | 93.5  | 98.4  |
| 57.5° | 5371.5 | 2686.1 | 105.1  | 94.7   | 104.5 | 104.5 | 97.2  | 86.8  | 78.2  | 72.1  | 77.0  |
| 60°   | 5122.2 | 2351.8 | 93.5   | 78.8   | 89.2  | 89.8  | 81.3  | 70.3  | 63.6  | 57.4  | 60.5  |
| 62.5° | 4657.7 | 1987.5 | 81.9   | 68.5   | 77.0  | 77.6  | 67.2  | 56.8  | 51.9  | 45.2  | 47.7  |
| 65°   | 3728.7 | 1520.0 | 69.7   | 60.5   | 66.6  | 64.8  | 55.6  | 48.3  | 42.2  | 36.1  | 37.3  |
| 67.5° | 2420.2 | 938.1  | 60.5   | 55.0   | 56.2  | 54.4  | 47.1  | 42.2  | 35.4  | 30.6  | 31.2  |
| 70°   | 1083.6 | 404.0  | 53.2   | 49.5   | 48.9  | 45.8  | 39.7  | 39.1  | 34.8  | 30.6  | 30.6  |
| 72.5° | 334.3  | 152.2  | 45.8   | 44.6   | 42.2  | 38.5  | 34.8  | 37.3  | 34.2  | 29.3  | 28.7  |
| 75°   | 132.0  | 69.7   | 37.9   | 37.9   | 36.7  | 31.8  | 31.2  | 33.6  | 31.8  | 26.9  | 25.7  |
| 77.5° | 69.1   | 44.0   | 31.2   | 32.4   | 31.8  | 24.4  | 28.1  | 30.6  | 29.3  | 22.6  | 18.9  |
| 80°   | 40.9   | 26.9   | 23.2   | 26.3   | 25.7  | 17.1  | 21.4  | 19.6  | 14.1  | 6.7   | 1.8   |
| 82.5° | 22.6   | 12.2   | 10.4   | 15.3   | 15.3  | 6.1   | 11.0  | 9.8   | 5.5   | 0.0   | 0.0   |
| 85°   | 11.0   | 8.6    | 7.9    | 8.6    | 6.1   | 1.8   | 5.5   | 5.5   | 3.1   | 0.0   | 0.0   |
| 87.5° | 5.5    | 4.9    | 3.7    | 3.1    | 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)