

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: P368269

Luminaire Tested: **PMM-SA4A-750-U-T4W-HSS**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P368269  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA4A-750-U-T4W-HSS  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11688 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

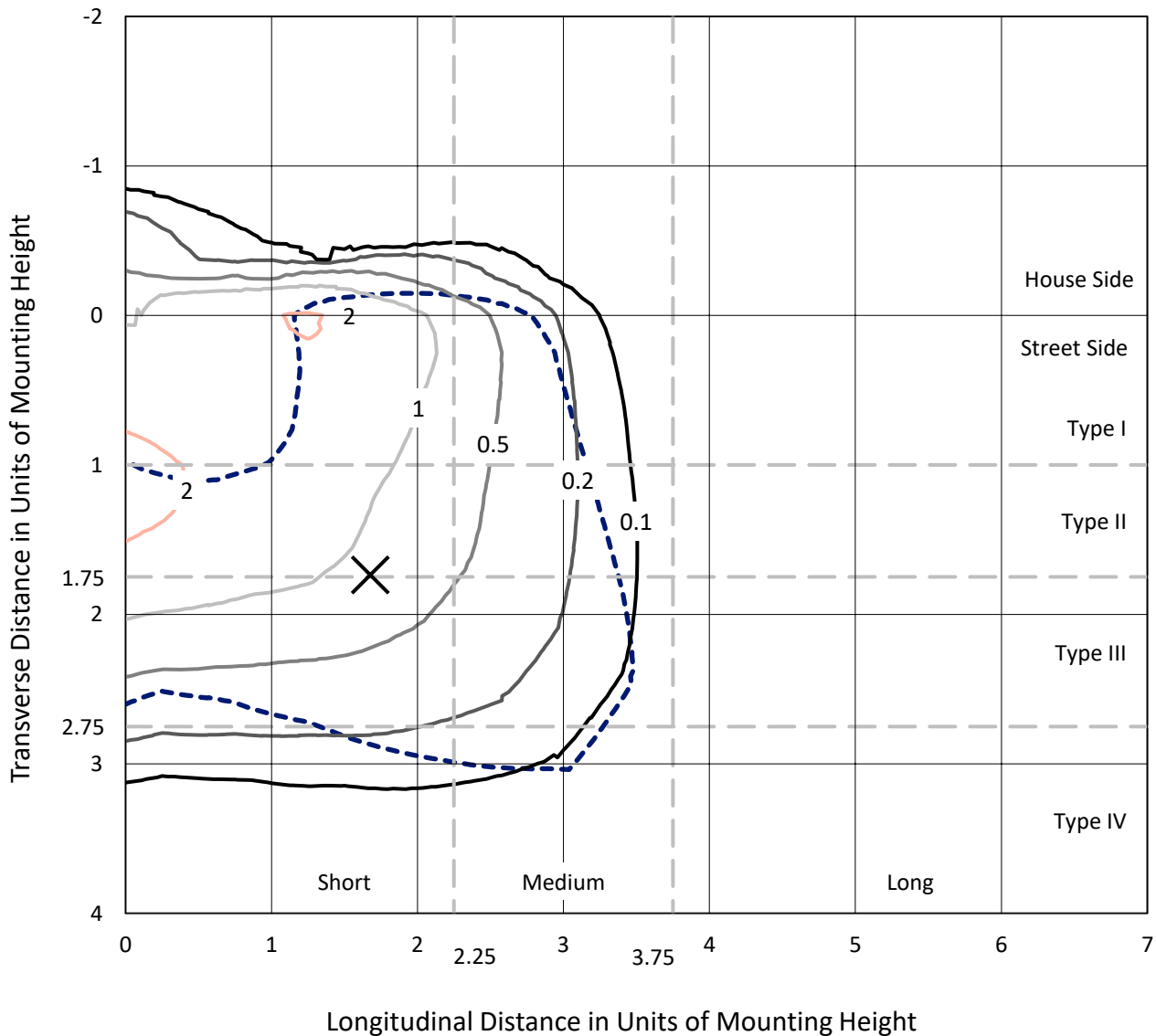
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

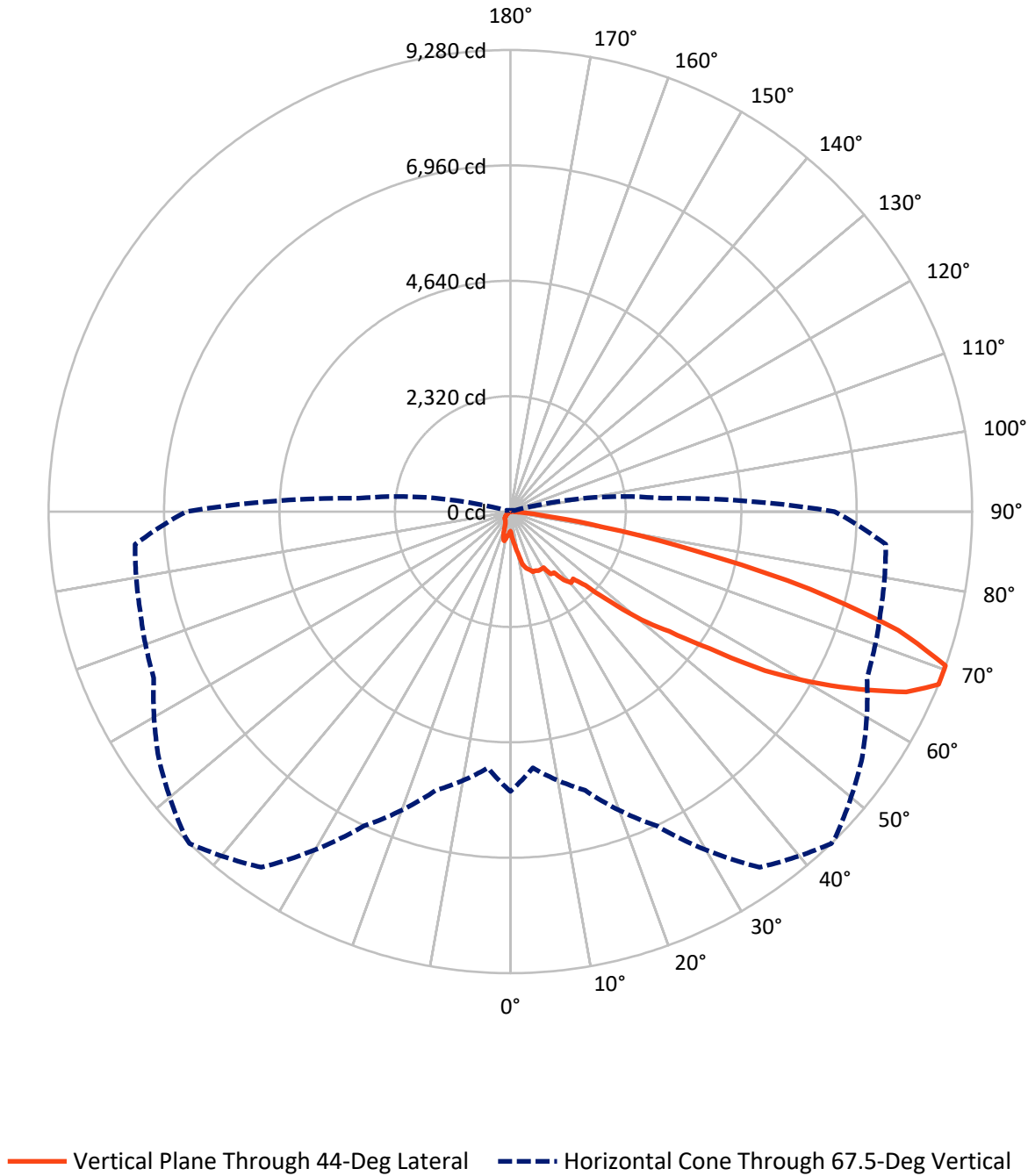
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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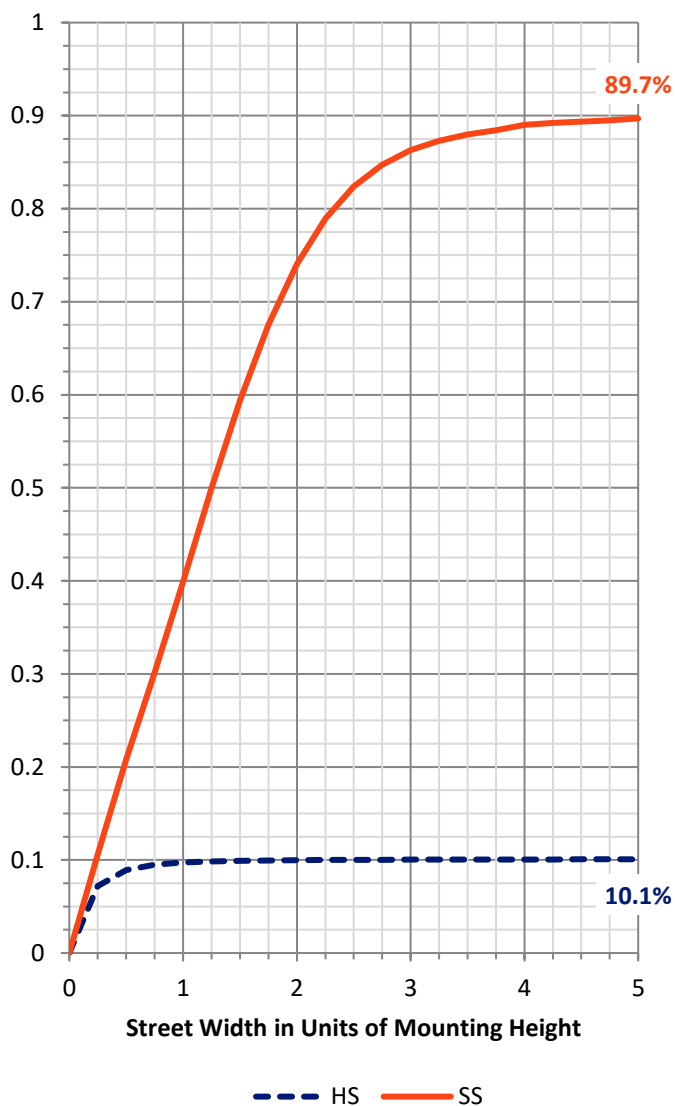
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1187.3   | 0.0    | 1187.3  |
|                    | % Fixture | 10.2     | 0.0    | 10.2    |
| <b>Street Side</b> | Lumens    | 10500.7  | 0.0    | 10500.7 |
|                    | % Fixture | 89.8     | 0.0    | 89.8    |
| <b>Total</b>       | Lumens    | 11688.0  | 0.0    | 11688.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 58.4    | 0.5       |
| 10°-20°   | 244.3   | 2.1       |
| 20°-30°   | 432.9   | 3.7       |
| 30°-40°   | 703.6   | 6.0       |
| 40°-50°   | 1408.0  | 12.0      |
| 50°-60°   | 2888.5  | 24.7      |
| 60°-70°   | 3967.9  | 33.9      |
| 70°-80°   | 1865.0  | 16.0      |
| 80°-90°   | 119.5   | 1.0       |
| 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°    | 11688.0 | 100.0     |
| 0°-180°   | 11688.0 | 100.0     |

**Coefficient of Utilization**



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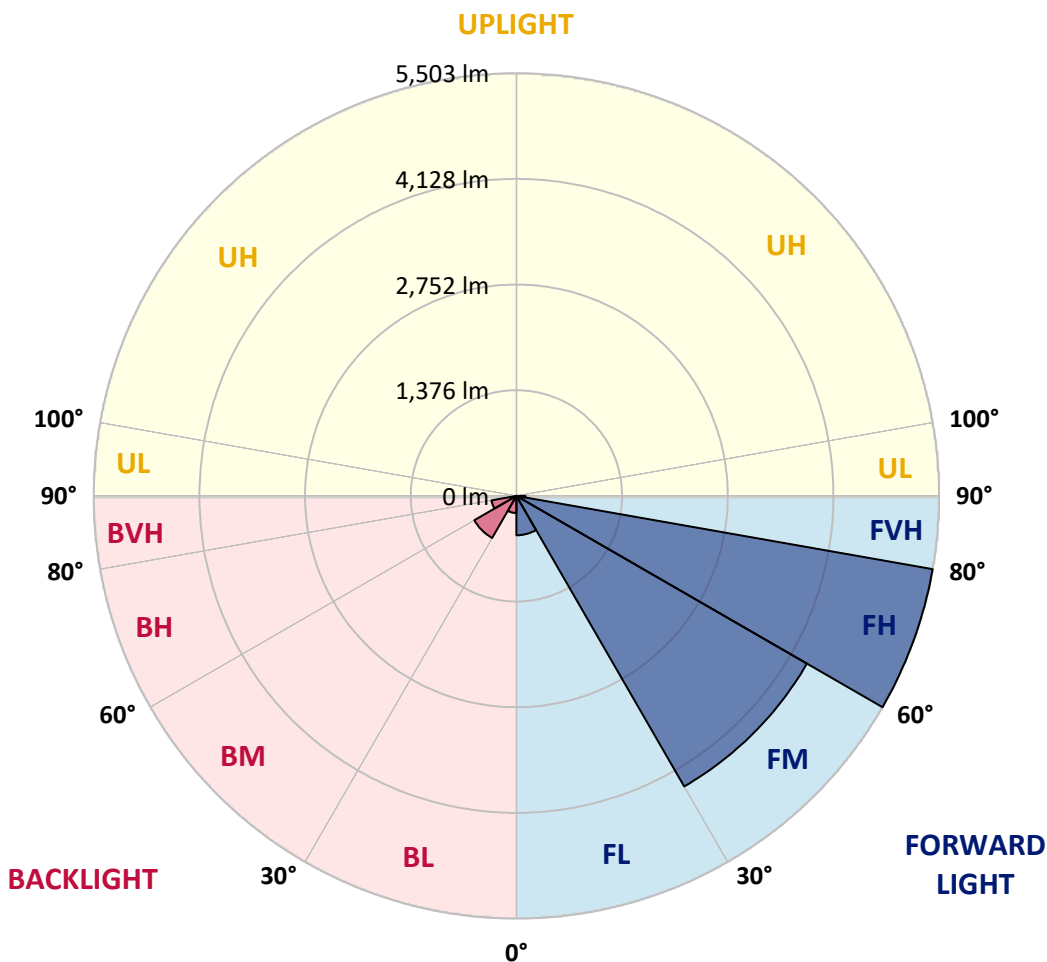
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 512.7  | 4.4       |                         |      |         |
| FM (30°-60°)   | 4367.6 | 37.4      |                         |      |         |
| FH (60°-80°)   | 5503.4 | 47.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 117.0  | 1.0       |                         |      | G2/225  |
| BL (0°-30°)    | 222.9  | 1.9       | B1/500                  |      |         |
| BM (30°-60°)   | 632.4  | 5.4       | B1/1000                 |      |         |
| BH (60°-80°)   | 329.5  | 2.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.4    | 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°    | 35°    | 44°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 393.8  | 393.8  | 393.8  | 393.8  | 393.8  | 393.8  | 393.8  | 393.8  | 393.8  | 393.8  | 393.8  |
| 2.5°  | 500.8  | 484.7  | 461.5  | 466.6  | 469.2  | 476.3  | 476.9  | 467.9  | 442.1  | 435.0  | 466.6  |
| 5°    | 701.9  | 662.5  | 655.5  | 640.6  | 611.0  | 594.9  | 591.0  | 607.1  | 586.5  | 580.1  | 588.4  |
| 7.5°  | 896.5  | 863.0  | 826.3  | 806.3  | 744.4  | 706.4  | 704.4  | 710.9  | 714.8  | 692.2  | 703.8  |
| 10°   | 1026.0 | 989.3  | 981.6  | 934.5  | 881.0  | 872.0  | 868.1  | 843.7  | 823.7  | 806.9  | 750.8  |
| 12.5° | 1143.3 | 1142.7 | 1156.9 | 1089.2 | 1080.8 | 1089.9 | 1086.6 | 999.0  | 979.0  | 908.8  | 892.6  |
| 15°   | 1299.3 | 1338.0 | 1276.8 | 1220.0 | 1147.9 | 1178.8 | 1170.4 | 1114.3 | 1100.8 | 1053.1 | 984.2  |
| 17.5° | 1461.1 | 1471.4 | 1368.9 | 1281.9 | 1263.2 | 1222.6 | 1231.0 | 1211.0 | 1142.7 | 1180.7 | 1112.4 |
| 20°   | 1465.0 | 1487.5 | 1377.9 | 1234.2 | 1291.6 | 1289.7 | 1290.3 | 1271.0 | 1180.7 | 1269.7 | 1207.2 |
| 22.5° | 1519.1 | 1463.7 | 1361.8 | 1270.3 | 1280.6 | 1290.3 | 1300.6 | 1276.8 | 1257.4 | 1279.3 | 1290.9 |
| 25°   | 1497.2 | 1475.3 | 1377.3 | 1316.7 | 1307.1 | 1314.8 | 1317.4 | 1347.7 | 1335.4 | 1388.3 | 1359.3 |
| 27.5° | 1553.9 | 1522.3 | 1347.0 | 1358.0 | 1323.8 | 1314.8 | 1299.3 | 1400.5 | 1436.6 | 1394.7 | 1472.0 |
| 30°   | 1651.2 | 1646.7 | 1399.2 | 1415.3 | 1388.9 | 1309.6 | 1350.9 | 1483.0 | 1528.1 | 1502.3 | 1596.4 |
| 32.5° | 1803.3 | 1818.8 | 1552.0 | 1447.6 | 1461.1 | 1496.5 | 1481.1 | 1483.0 | 1597.1 | 1654.4 | 1729.2 |
| 35°   | 2019.2 | 2010.9 | 1700.8 | 1570.0 | 1499.1 | 1504.9 | 1526.8 | 1631.9 | 1779.5 | 1775.6 | 1854.9 |
| 37.5° | 2443.3 | 2351.8 | 1964.4 | 1695.0 | 1716.3 | 1745.3 | 1729.2 | 1870.3 | 1884.5 | 1889.7 | 2079.2 |
| 40°   | 3068.5 | 2946.7 | 2380.2 | 1958.6 | 1753.7 | 1882.0 | 1874.2 | 1909.0 | 2003.8 | 2039.2 | 2315.7 |
| 42.5° | 3892.2 | 3728.5 | 3111.7 | 2443.3 | 1934.2 | 1845.9 | 1893.6 | 1959.3 | 2277.7 | 2378.9 | 2681.8 |
| 45°   | 4802.2 | 4470.9 | 3841.2 | 3134.2 | 2386.6 | 2112.7 | 2148.8 | 2271.2 | 2712.7 | 2880.3 | 3214.8 |
| 47.5° | 5391.9 | 5100.6 | 4563.7 | 3746.5 | 2858.4 | 2714.6 | 2717.9 | 2744.3 | 3223.8 | 3534.5 | 3983.0 |
| 50°   | 5904.3 | 5594.3 | 5096.1 | 4386.5 | 3693.0 | 3421.0 | 3359.2 | 3237.3 | 3874.8 | 4299.5 | 4797.0 |
| 52.5° | 6627.4 | 6265.2 | 5628.5 | 5137.3 | 4644.9 | 4004.3 | 3982.4 | 4023.6 | 4642.4 | 5089.0 | 5631.7 |
| 55°   | 7279.7 | 6839.5 | 6231.7 | 5922.3 | 5730.3 | 4861.5 | 4880.2 | 4949.1 | 5627.8 | 5864.3 | 6374.1 |
| 57.5° | 7567.8 | 7090.8 | 6778.2 | 6639.0 | 6536.6 | 6032.6 | 5969.4 | 5928.1 | 6405.1 | 6495.3 | 7152.1 |
| 60°   | 7756.6 | 7302.9 | 7161.1 | 7193.3 | 7504.0 | 6969.0 | 6911.7 | 6671.9 | 7048.3 | 7122.4 | 7849.4 |
| 62.5° | 7637.4 | 7223.6 | 7253.9 | 7522.6 | 8212.3 | 7860.4 | 7694.7 | 7293.8 | 7574.2 | 7634.1 | 8350.2 |
| 65°   | 6886.5 | 6455.3 | 6844.6 | 7494.9 | 8752.4 | 8744.0 | 8667.3 | 7868.1 | 7865.5 | 7942.2 | 8388.9 |
| 67.5° | 5625.2 | 5172.8 | 5802.5 | 6975.5 | 8729.8 | 9279.6 | 9243.5 | 8629.9 | 7907.4 | 7702.5 | 7570.3 |
| 70°   | 3910.8 | 3518.3 | 4232.5 | 5760.6 | 7951.9 | 9275.7 | 9217.7 | 9141.6 | 7576.1 | 6630.0 | 5869.5 |
| 72.5° | 2032.1 | 1816.2 | 2481.3 | 3969.5 | 6338.7 | 8149.7 | 8341.2 | 8216.1 | 6468.9 | 4817.0 | 3456.5 |
| 75°   | 690.3  | 619.4  | 1023.5 | 2106.9 | 4213.8 | 6223.3 | 6447.6 | 6320.6 | 4393.6 | 2584.5 | 1367.0 |
| 77.5° | 267.5  | 248.8  | 366.7  | 855.3  | 2114.0 | 3792.3 | 4035.9 | 3906.3 | 2356.3 | 946.8  | 321.6  |
| 80°   | 152.1  | 146.9  | 202.4  | 385.4  | 932.0  | 1886.5 | 2057.9 | 1866.5 | 849.5  | 319.0  | 83.8   |
| 82.5° | 64.5   | 66.4   | 112.8  | 208.2  | 468.6  | 665.8  | 742.5  | 677.4  | 355.8  | 218.5  | 30.9   |
| 85°   | 14.2   | 17.4   | 53.5   | 116.0  | 196.6  | 190.1  | 199.2  | 221.1  | 218.5  | 160.5  | 13.5   |
| 87.5° | 0.0    | 0.0    | 16.8   | 31.6   | 47.0   | 30.9   | 24.5   | 43.2   | 67.0   | 64.5   | 5.8    |
| 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°    | 393.8  | 393.8  | 393.8  | 393.8 | 393.8 | 393.8 | 393.8 | 393.8 | 393.8 | 393.8 | 393.8 |
| 2.5°  | 472.4  | 466.0  | 425.4  | 422.8 | 425.4 | 418.3 | 417.6 | 402.8 | 404.1 | 437.6 | 440.2 |
| 5°    | 588.4  | 556.2  | 521.4  | 510.4 | 500.1 | 476.9 | 489.8 | 489.8 | 489.8 | 511.1 | 517.5 |
| 7.5°  | 693.5  | 650.3  | 601.3  | 560.1 | 520.1 | 491.1 | 511.1 | 525.3 | 533.6 | 561.4 | 574.3 |
| 10°   | 741.2  | 698.6  | 654.8  | 596.2 | 565.2 | 554.3 | 531.1 | 518.8 | 533.6 | 527.8 | 534.9 |
| 12.5° | 843.0  | 804.3  | 728.9  | 668.4 | 645.1 | 607.8 | 539.4 | 491.8 | 460.2 | 455.0 | 453.7 |
| 15°   | 942.3  | 918.4  | 817.2  | 736.0 | 655.5 | 569.1 | 452.4 | 389.3 | 355.8 | 350.0 | 350.6 |
| 17.5° | 1067.9 | 1033.8 | 884.9  | 768.2 | 631.6 | 476.3 | 349.3 | 295.2 | 292.6 | 306.8 | 308.1 |
| 20°   | 1151.7 | 1095.7 | 919.1  | 741.8 | 553.0 | 360.3 | 273.3 | 260.4 | 281.0 | 306.8 | 304.2 |
| 22.5° | 1231.6 | 1171.1 | 964.2  | 718.6 | 428.6 | 273.3 | 251.4 | 252.6 | 270.0 | 297.8 | 304.9 |
| 25°   | 1284.5 | 1262.6 | 1019.6 | 664.5 | 326.8 | 236.5 | 240.4 | 250.1 | 264.9 | 291.3 | 291.3 |
| 27.5° | 1443.7 | 1341.2 | 1013.2 | 559.4 | 251.4 | 220.4 | 229.4 | 241.7 | 249.4 | 281.0 | 284.2 |
| 30°   | 1540.4 | 1506.8 | 1046.7 | 452.4 | 220.4 | 199.8 | 217.2 | 228.2 | 233.3 | 269.4 | 270.7 |
| 32.5° | 1659.0 | 1584.8 | 1087.3 | 333.9 | 205.0 | 198.5 | 194.6 | 203.0 | 217.8 | 249.4 | 251.4 |
| 35°   | 1803.3 | 1781.4 | 1029.3 | 262.3 | 199.8 | 185.6 | 177.9 | 182.4 | 192.1 | 213.3 | 217.8 |
| 37.5° | 2097.9 | 1967.7 | 994.5  | 224.9 | 199.8 | 181.1 | 172.7 | 161.1 | 162.4 | 177.2 | 185.6 |
| 40°   | 2346.0 | 2306.0 | 897.1  | 218.5 | 190.8 | 174.7 | 154.0 | 139.9 | 130.2 | 134.7 | 137.9 |
| 42.5° | 2801.7 | 2616.7 | 771.5  | 215.3 | 182.4 | 157.9 | 130.8 | 116.0 | 101.2 | 102.5 | 107.6 |
| 45°   | 3354.6 | 2955.7 | 659.3  | 212.0 | 176.6 | 141.1 | 110.2 | 92.8  | 77.3  | 78.0  | 83.1  |
| 47.5° | 4093.2 | 3450.0 | 523.3  | 202.4 | 166.3 | 125.7 | 88.9  | 70.9  | 61.9  | 63.8  | 68.3  |
| 50°   | 4932.4 | 3883.8 | 413.8  | 187.6 | 154.0 | 110.9 | 72.2  | 57.4  | 54.1  | 56.1  | 61.2  |
| 52.5° | 5681.9 | 4203.5 | 341.6  | 174.0 | 136.6 | 90.2  | 60.6  | 50.9  | 49.6  | 50.9  | 54.8  |
| 55°   | 6348.4 | 4389.1 | 285.5  | 158.5 | 117.3 | 72.8  | 54.8  | 47.0  | 46.4  | 45.8  | 48.3  |
| 57.5° | 6973.5 | 4442.6 | 223.0  | 134.1 | 95.4  | 63.2  | 50.9  | 43.8  | 42.5  | 40.6  | 42.5  |
| 60°   | 7429.2 | 4351.0 | 163.7  | 107.6 | 78.0  | 57.4  | 47.7  | 39.3  | 37.4  | 34.2  | 35.4  |
| 62.5° | 7649.0 | 4100.3 | 123.7  | 86.4  | 66.4  | 52.2  | 42.5  | 34.2  | 31.6  | 27.7  | 28.4  |
| 65°   | 7440.2 | 3687.2 | 97.3   | 72.8  | 56.7  | 43.8  | 36.1  | 29.0  | 25.8  | 21.9  | 21.9  |
| 67.5° | 6515.3 | 3058.8 | 82.5   | 63.2  | 47.7  | 37.4  | 29.6  | 26.4  | 21.3  | 18.0  | 17.4  |
| 70°   | 4782.2 | 2200.3 | 70.9   | 55.4  | 41.2  | 32.2  | 25.1  | 23.8  | 20.6  | 17.4  | 16.1  |
| 72.5° | 2699.2 | 1245.2 | 60.6   | 49.0  | 34.8  | 27.1  | 21.3  | 21.9  | 20.0  | 16.1  | 14.8  |
| 75°   | 1029.9 | 419.6  | 50.3   | 40.6  | 28.4  | 20.6  | 18.0  | 18.0  | 18.0  | 13.5  | 11.6  |
| 77.5° | 255.2  | 107.0  | 40.0   | 32.9  | 22.6  | 13.5  | 14.8  | 15.5  | 15.5  | 11.6  | 8.4   |
| 80°   | 70.3   | 36.1   | 23.8   | 23.8  | 16.1  | 7.7   | 10.3  | 10.3  | 8.4   | 3.9   | 0.0   |
| 82.5° | 25.8   | 13.5   | 8.4    | 10.3  | 7.1   | 2.6   | 3.9   | 2.6   | 1.9   | 0.0   | 0.0   |
| 85°   | 11.0   | 7.1    | 5.2    | 5.8   | 3.2   | 0.0   | 0.6   | 1.3   | 0.0   | 0.0   | 0.0   |
| 87.5° | 4.5    | 3.2    | 2.6    | 2.6   | 1.3   | 0.0   | 0.0   | 0.0   | 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)