

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P366992

Luminaire Tested: **PMM-SA1C-830-U-T4FT**

Issue Date: 12/2/2019

Report Generated By 670245982

**Test Information**

Test Method: LM-79-08  
Report Number: P366992  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA1C-830-U-T4FT  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

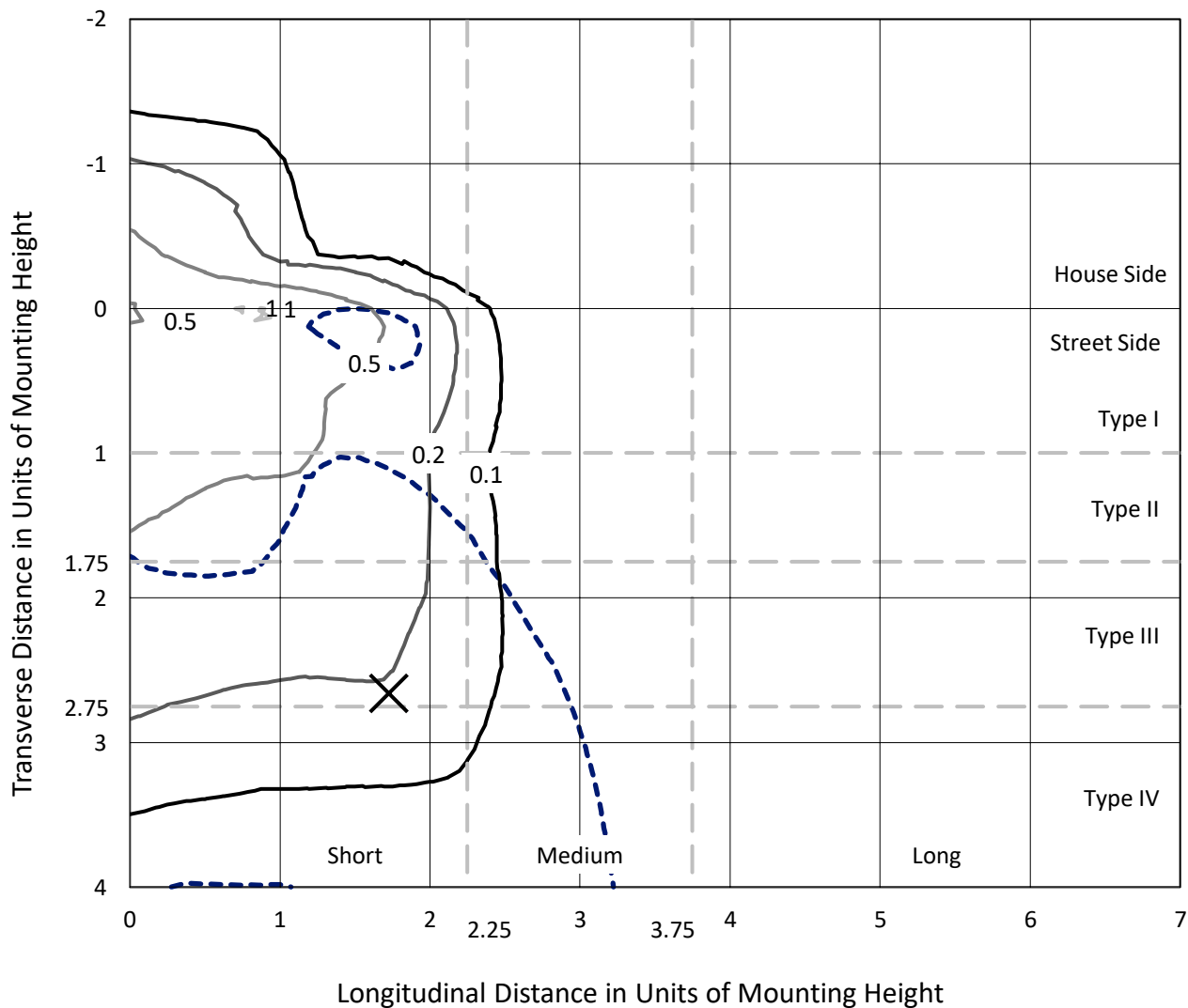
Lumens per Lamp: N/A  
Luminaire Lumens: 4996 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

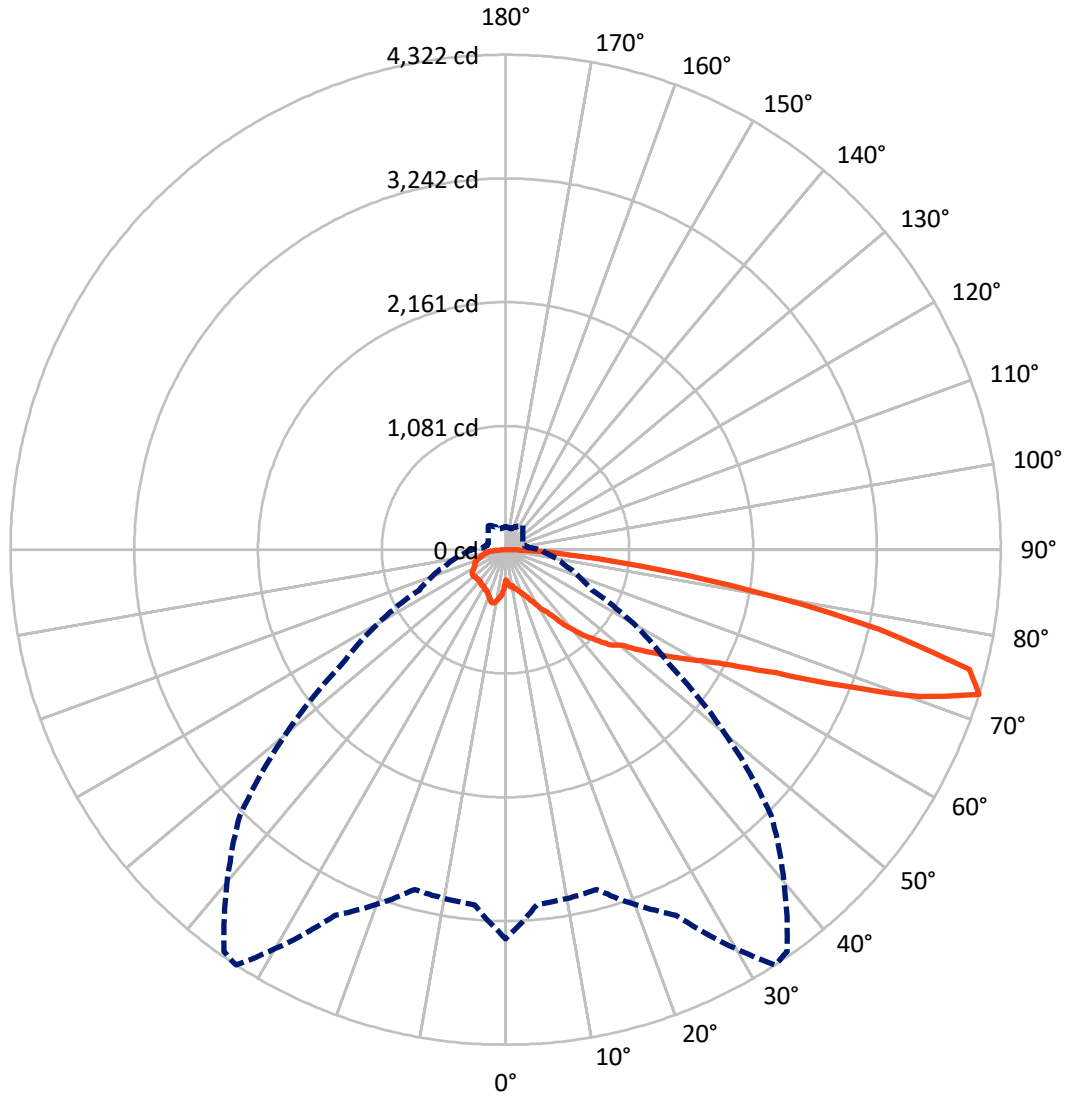
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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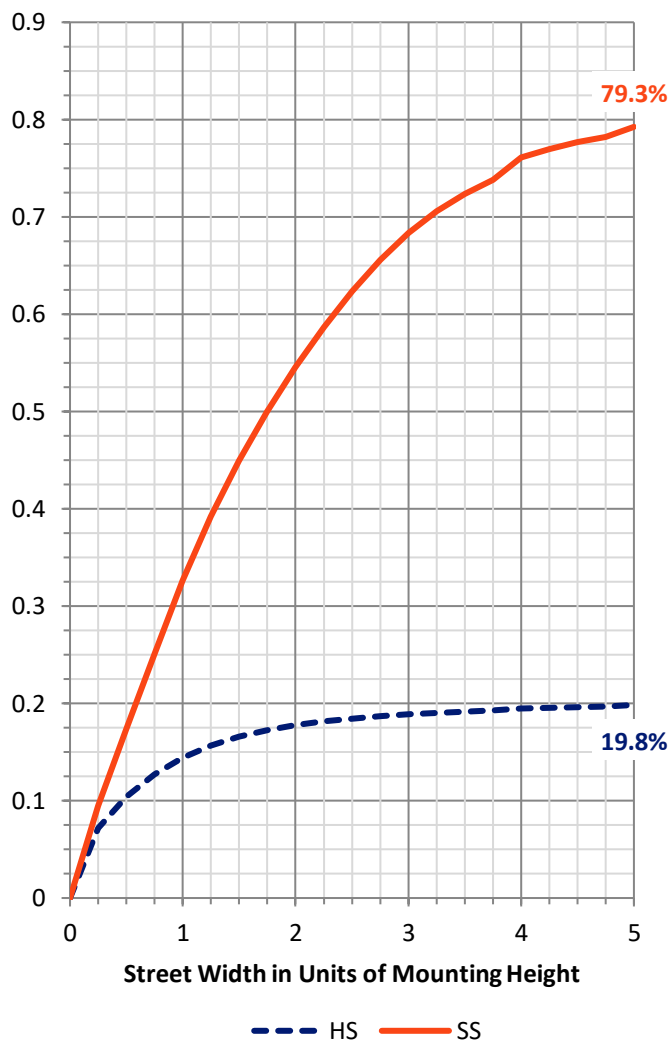
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1010.7   | 0.0    | 1010.7 |
|                    | % Fixture | 20.2     | 0.0    | 20.2   |
| <b>Street Side</b> | Lumens    | 3985.3   | 0.0    | 3985.3 |
|                    | % Fixture | 79.8     | 0.0    | 79.8   |
| <b>Total</b>       | Lumens    | 4996.0   | 0.0    | 4996.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 36.0   | 0.7       |
| 10°-20°   | 133.1  | 2.7       |
| 20°-30°   | 242.7  | 4.9       |
| 30°-40°   | 410.6  | 8.2       |
| 40°-50°   | 683.2  | 13.7      |
| 50°-60°   | 1002.6 | 20.1      |
| 60°-70°   | 1282.6 | 25.7      |
| 70°-80°   | 1043.5 | 20.9      |
| 80°-90°   | 161.6  | 3.2       |
| 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°    | 4996.0 | 100.0     |
| 0°-180°   | 4996.0 | 100.0     |

**Coefficient of Utilization**

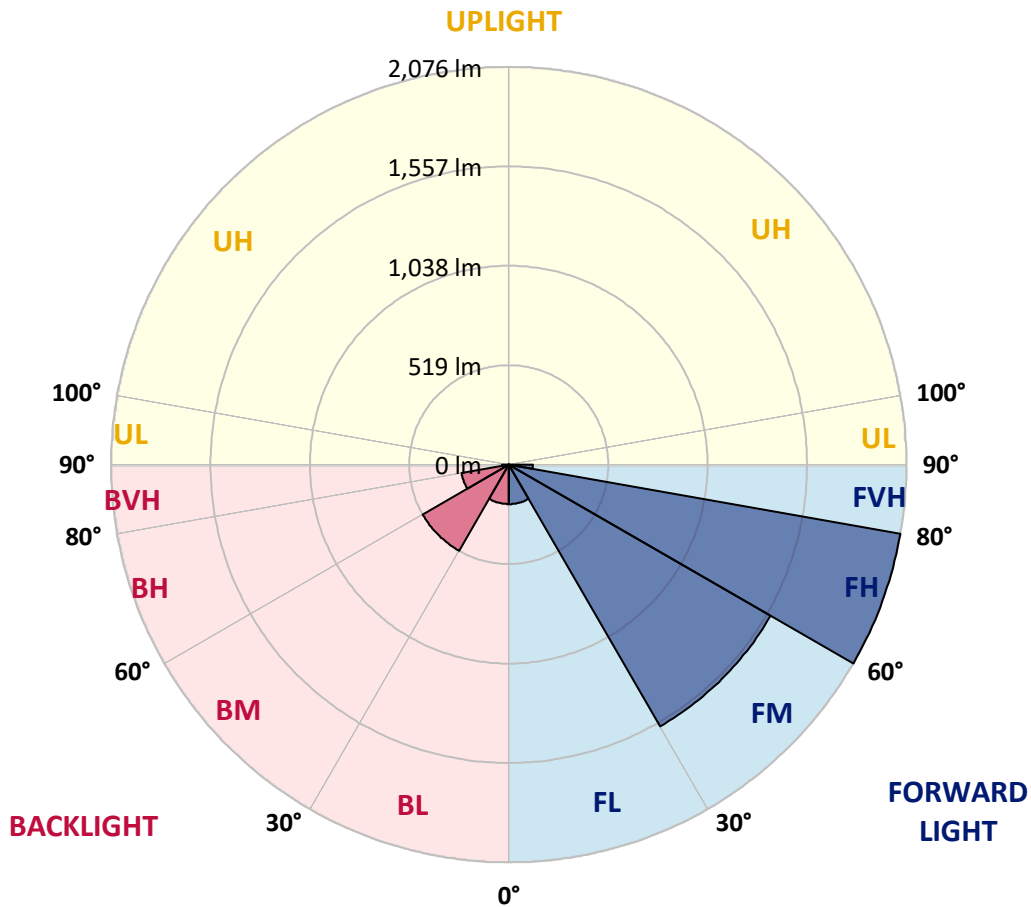


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 206.2  | 4.1       |                         |      |         |
| FM (30°-60°)   | 1577.3 | 31.6      |                         |      |         |
| FH (60°-80°)   | 2075.6 | 41.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 126.1  | 2.5       |                         |      | G2/225  |
| BL (0°-30°)    | 205.7  | 4.1       | B1/500                  |      |         |
| BM (30°-60°)   | 519.1  | 10.4      | B1/1000                 |      |         |
| BH (60°-80°)   | 250.4  | 5.0       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 35.5   | 0.7       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 33°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 262.0  | 262.0  | 262.0  | 262.0  | 262.0  | 262.0  | 262.0  | 262.0  | 262.0  | 262.0  | 262.0  |
| 2.5°  | 297.0  | 287.7  | 272.3  | 271.9  | 280.4  | 282.3  | 287.9  | 288.3  | 290.4  | 287.0  | 310.7  |
| 5°    | 327.7  | 317.7  | 311.7  | 313.8  | 309.8  | 314.6  | 314.6  | 328.3  | 346.5  | 367.7  | 397.7  |
| 7.5°  | 334.9  | 327.7  | 320.8  | 326.0  | 326.8  | 322.3  | 326.6  | 358.8  | 391.7  | 412.9  | 460.9  |
| 10°   | 320.4  | 313.2  | 318.3  | 320.0  | 319.8  | 330.2  | 352.7  | 378.4  | 415.1  | 454.1  | 480.0  |
| 12.5° | 317.7  | 322.9  | 325.4  | 328.3  | 348.0  | 351.1  | 385.3  | 411.8  | 448.7  | 482.9  | 550.3  |
| 15°   | 357.7  | 364.6  | 349.2  | 348.2  | 354.6  | 357.5  | 393.0  | 419.7  | 473.6  | 531.0  | 591.5  |
| 17.5° | 414.7  | 417.2  | 389.6  | 375.5  | 380.3  | 382.6  | 398.1  | 431.7  | 464.9  | 571.0  | 646.4  |
| 20°   | 469.8  | 471.5  | 419.7  | 388.2  | 405.0  | 407.5  | 422.0  | 441.2  | 467.4  | 593.4  | 683.5  |
| 22.5° | 527.7  | 517.1  | 460.3  | 420.5  | 430.3  | 430.9  | 439.4  | 450.0  | 487.1  | 589.8  | 728.7  |
| 25°   | 590.9  | 584.3  | 512.7  | 474.6  | 474.2  | 465.7  | 466.1  | 481.2  | 508.0  | 627.6  | 758.3  |
| 27.5° | 674.8  | 675.7  | 571.8  | 551.3  | 519.2  | 513.6  | 485.6  | 513.8  | 544.3  | 628.0  | 822.4  |
| 30°   | 783.6  | 763.5  | 654.1  | 620.9  | 589.2  | 577.4  | 539.5  | 563.5  | 576.8  | 663.8  | 892.0  |
| 32.5° | 872.1  | 866.3  | 739.9  | 689.7  | 637.9  | 651.6  | 609.7  | 588.6  | 612.4  | 725.6  | 997.5  |
| 35°   | 956.9  | 937.8  | 830.7  | 765.4  | 710.9  | 702.6  | 675.4  | 679.0  | 693.5  | 803.7  | 1135.3 |
| 37.5° | 1083.3 | 1073.0 | 959.2  | 854.7  | 829.2  | 795.4  | 778.2  | 789.2  | 777.8  | 903.8  | 1342.0 |
| 40°   | 1224.7 | 1164.6 | 1066.5 | 973.5  | 925.8  | 902.0  | 908.0  | 897.6  | 888.9  | 1016.2 | 1527.3 |
| 42.5° | 1360.0 | 1305.3 | 1137.8 | 1096.0 | 1033.8 | 1043.7 | 1010.8 | 1018.0 | 1042.7 | 1175.6 | 1698.7 |
| 45°   | 1507.4 | 1389.0 | 1213.5 | 1176.6 | 1132.0 | 1144.7 | 1171.0 | 1163.1 | 1203.5 | 1363.5 | 1860.1 |
| 47.5° | 1580.9 | 1468.4 | 1306.3 | 1246.2 | 1245.6 | 1219.3 | 1379.5 | 1396.9 | 1333.7 | 1502.8 | 2024.1 |
| 50°   | 1651.8 | 1541.2 | 1375.3 | 1334.7 | 1305.3 | 1361.7 | 1579.5 | 1539.5 | 1451.4 | 1662.6 | 2204.4 |
| 52.5° | 1750.5 | 1624.3 | 1454.5 | 1411.2 | 1447.7 | 1499.9 | 1739.1 | 1731.2 | 1566.9 | 1827.0 | 2361.1 |
| 55°   | 1825.7 | 1698.3 | 1573.7 | 1533.5 | 1603.1 | 1654.3 | 1901.6 | 1854.1 | 1665.7 | 1947.6 | 2460.3 |
| 57.5° | 1957.5 | 1826.7 | 1749.6 | 1660.3 | 1785.5 | 1784.7 | 2058.3 | 2021.6 | 1771.4 | 2046.6 | 2500.3 |
| 60°   | 2167.1 | 2013.5 | 1932.9 | 1829.9 | 1964.0 | 2011.8 | 2237.3 | 2131.6 | 1846.2 | 2109.2 | 2428.2 |
| 62.5° | 2461.2 | 2278.8 | 2148.0 | 2046.0 | 2209.5 | 2296.2 | 2458.5 | 2211.8 | 1851.0 | 2091.4 | 2238.6 |
| 65°   | 2824.9 | 2603.1 | 2431.7 | 2324.0 | 2593.8 | 2717.5 | 2725.8 | 2261.4 | 1807.1 | 1907.2 | 1839.8 |
| 67.5° | 3179.7 | 2930.4 | 2751.5 | 2772.0 | 3166.0 | 3224.7 | 3015.6 | 2302.8 | 1571.0 | 1531.4 | 1277.5 |
| 70°   | 3413.3 | 3143.0 | 3023.9 | 3241.5 | 3840.0 | 3779.9 | 3250.4 | 2193.6 | 1237.1 | 992.8  | 719.4  |
| 72.5° | 3395.7 | 3112.8 | 3069.9 | 3520.4 | 4322.1 | 4284.6 | 3279.0 | 1744.5 | 828.6  | 542.8  | 358.8  |
| 75°   | 2766.4 | 2546.5 | 2644.0 | 3332.7 | 4183.2 | 4181.4 | 2846.9 | 1079.8 | 425.1  | 278.8  | 226.7  |
| 77.5° | 1529.5 | 1444.2 | 1730.4 | 2523.3 | 3330.8 | 3347.8 | 1923.5 | 489.7  | 229.2  | 197.5  | 170.8  |
| 80°   | 535.8  | 527.9  | 749.8  | 1361.7 | 2191.1 | 2195.2 | 894.5  | 224.0  | 166.6  | 149.4  | 125.4  |
| 82.5° | 195.9  | 194.2  | 310.9  | 632.5  | 1206.4 | 1203.7 | 339.3  | 139.5  | 123.5  | 105.7  | 82.7   |
| 85°   | 78.1   | 76.5   | 142.2  | 280.8  | 554.2  | 545.3  | 131.8  | 79.2   | 80.8   | 63.0   | 40.6   |
| 87.5° | 21.6   | 22.4   | 48.3   | 87.9   | 169.7  | 157.3  | 33.2   | 26.7   | 32.7   | 25.7   | 12.8   |
| 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°    | 262.0  | 262.0  | 262.0 | 262.0 | 262.0 | 262.0 | 262.0 | 262.0 | 262.0 | 262.0 | 262.0 |
| 2.5°  | 314.8  | 316.9  | 296.4 | 303.6 | 313.0 | 317.9 | 320.4 | 309.8 | 313.4 | 328.3 | 327.7 |
| 5°    | 403.9  | 395.7  | 387.8 | 395.9 | 390.5 | 382.8 | 395.2 | 394.6 | 402.7 | 410.8 | 412.6 |
| 7.5°  | 470.5  | 459.7  | 456.0 | 437.7 | 419.5 | 401.0 | 417.0 | 426.9 | 429.0 | 449.1 | 457.6 |
| 10°   | 494.5  | 490.4  | 491.8 | 467.8 | 465.5 | 467.4 | 452.6 | 436.7 | 446.4 | 438.1 | 444.4 |
| 12.5° | 550.1  | 560.4  | 534.7 | 518.3 | 516.9 | 505.5 | 476.1 | 465.7 | 454.7 | 466.1 | 460.3 |
| 15°   | 594.6  | 613.9  | 586.3 | 557.5 | 525.0 | 507.4 | 482.3 | 466.5 | 459.3 | 461.8 | 454.7 |
| 17.5° | 659.9  | 677.9  | 607.9 | 563.7 | 530.2 | 504.3 | 465.9 | 432.3 | 450.2 | 451.6 | 443.5 |
| 20°   | 703.2  | 704.5  | 615.1 | 548.4 | 518.1 | 473.2 | 435.9 | 406.4 | 426.9 | 447.9 | 457.0 |
| 22.5° | 745.5  | 736.2  | 624.0 | 536.2 | 474.4 | 430.9 | 412.6 | 410.8 | 426.1 | 443.7 | 445.8 |
| 25°   | 777.2  | 778.7  | 629.2 | 531.6 | 448.7 | 389.4 | 389.4 | 402.9 | 416.4 | 458.2 | 456.2 |
| 27.5° | 854.1  | 797.5  | 609.1 | 510.7 | 413.1 | 365.2 | 389.6 | 407.7 | 414.1 | 459.5 | 464.0 |
| 30°   | 910.1  | 873.2  | 613.3 | 474.8 | 377.0 | 353.8 | 373.9 | 396.5 | 414.3 | 466.7 | 465.1 |
| 32.5° | 1003.9 | 904.7  | 623.0 | 424.5 | 350.1 | 349.4 | 367.3 | 391.1 | 412.4 | 458.9 | 461.4 |
| 35°   | 1107.8 | 997.5  | 595.9 | 386.1 | 343.6 | 346.9 | 370.0 | 379.5 | 404.6 | 455.8 | 458.0 |
| 37.5° | 1299.9 | 1046.0 | 578.7 | 356.5 | 339.5 | 349.0 | 357.7 | 372.4 | 397.7 | 440.2 | 455.1 |
| 40°   | 1412.7 | 1145.9 | 514.8 | 339.3 | 330.8 | 347.4 | 351.7 | 364.1 | 377.8 | 421.6 | 431.1 |
| 42.5° | 1561.0 | 1177.4 | 460.3 | 320.2 | 326.4 | 340.5 | 353.6 | 356.7 | 365.8 | 392.1 | 409.5 |
| 45°   | 1684.8 | 1201.0 | 402.5 | 304.9 | 311.7 | 355.7 | 356.5 | 355.0 | 353.4 | 363.1 | 377.4 |
| 47.5° | 1812.9 | 1264.5 | 349.2 | 287.9 | 306.1 | 368.1 | 357.9 | 344.7 | 337.8 | 339.1 | 352.3 |
| 50°   | 1954.2 | 1310.5 | 311.5 | 274.0 | 307.4 | 368.1 | 365.0 | 334.1 | 320.4 | 316.9 | 330.8 |
| 52.5° | 2078.6 | 1315.9 | 282.9 | 262.8 | 302.2 | 355.4 | 369.7 | 327.5 | 304.5 | 296.0 | 309.0 |
| 55°   | 2146.3 | 1247.7 | 262.2 | 252.6 | 288.9 | 344.0 | 367.3 | 323.7 | 285.2 | 278.8 | 290.4 |
| 57.5° | 2144.9 | 1134.5 | 244.6 | 238.6 | 273.8 | 328.1 | 353.4 | 303.4 | 273.4 | 269.6 | 281.0 |
| 60°   | 2067.6 | 1001.9 | 231.1 | 226.9 | 258.2 | 304.9 | 328.5 | 290.2 | 262.0 | 260.1 | 272.5 |
| 62.5° | 1892.2 | 864.9  | 218.0 | 214.7 | 243.7 | 288.5 | 316.7 | 275.4 | 250.2 | 249.9 | 261.8 |
| 65°   | 1549.6 | 694.3  | 205.8 | 205.0 | 230.3 | 272.3 | 305.5 | 263.0 | 237.9 | 242.1 | 254.1 |
| 67.5° | 1067.8 | 487.9  | 192.7 | 195.2 | 217.8 | 256.8 | 297.0 | 254.7 | 225.1 | 233.6 | 244.4 |
| 70°   | 585.9  | 301.8  | 178.2 | 183.2 | 202.1 | 238.8 | 283.7 | 241.2 | 208.3 | 221.3 | 228.8 |
| 72.5° | 298.0  | 201.2  | 160.2 | 168.1 | 182.8 | 212.2 | 258.9 | 221.8 | 190.3 | 195.2 | 199.2 |
| 75°   | 200.2  | 151.5  | 140.1 | 148.8 | 159.4 | 186.9 | 229.6 | 203.5 | 173.1 | 172.4 | 176.8 |
| 77.5° | 151.3  | 118.3  | 119.0 | 128.9 | 135.8 | 164.4 | 206.4 | 188.2 | 158.6 | 157.1 | 163.5 |
| 80°   | 110.7  | 89.7   | 95.8  | 106.1 | 112.3 | 147.6 | 191.3 | 171.2 | 138.9 | 133.1 | 138.4 |
| 82.5° | 73.4   | 63.6   | 70.9  | 81.2  | 86.2  | 123.3 | 173.7 | 145.3 | 113.2 | 98.4  | 99.3  |
| 85°   | 34.6   | 33.4   | 42.3  | 47.3  | 53.7  | 76.5  | 129.9 | 100.5 | 72.1  | 59.7  | 62.4  |
| 87.5° | 7.9    | 10.6   | 13.9  | 13.7  | 16.0  | 20.5  | 40.4  | 28.2  | 20.9  | 14.3  | 9.5   |
| 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)