

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: P367785

Luminaire Tested: **PMM-SA3A-830-U-T4W-HSS**

Issue Date: 12/2/2019

Report Generated By 670245982

**Test Information**

Test Method: LM-79-08  
Report Number: P367785  
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-SA3A-830-U-T4W-HSS  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

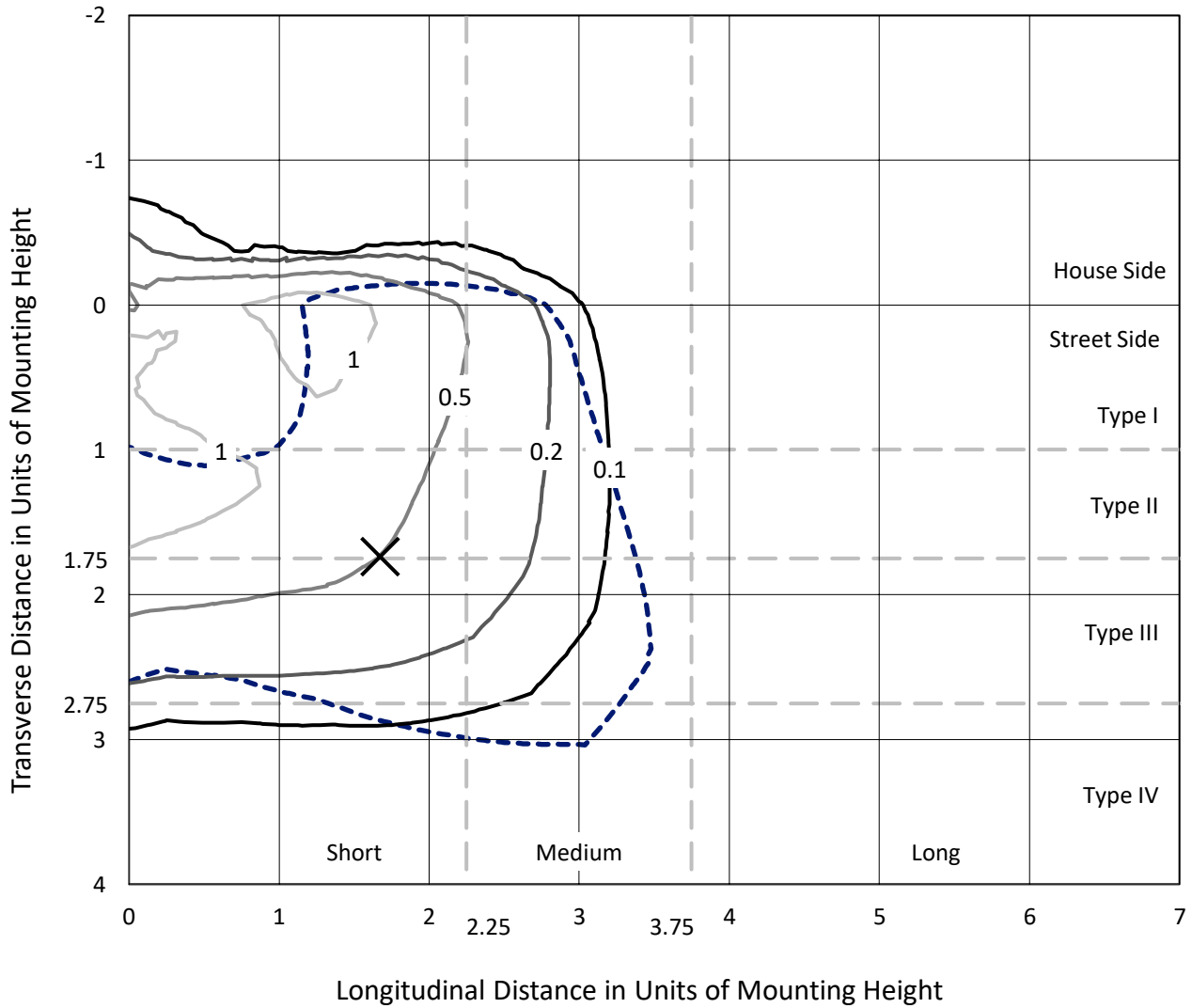
Lumens per Lamp: N/A  
Luminaire Lumens: 7027 lumens  
Efficiency: N/A  
Efficacy: 73.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

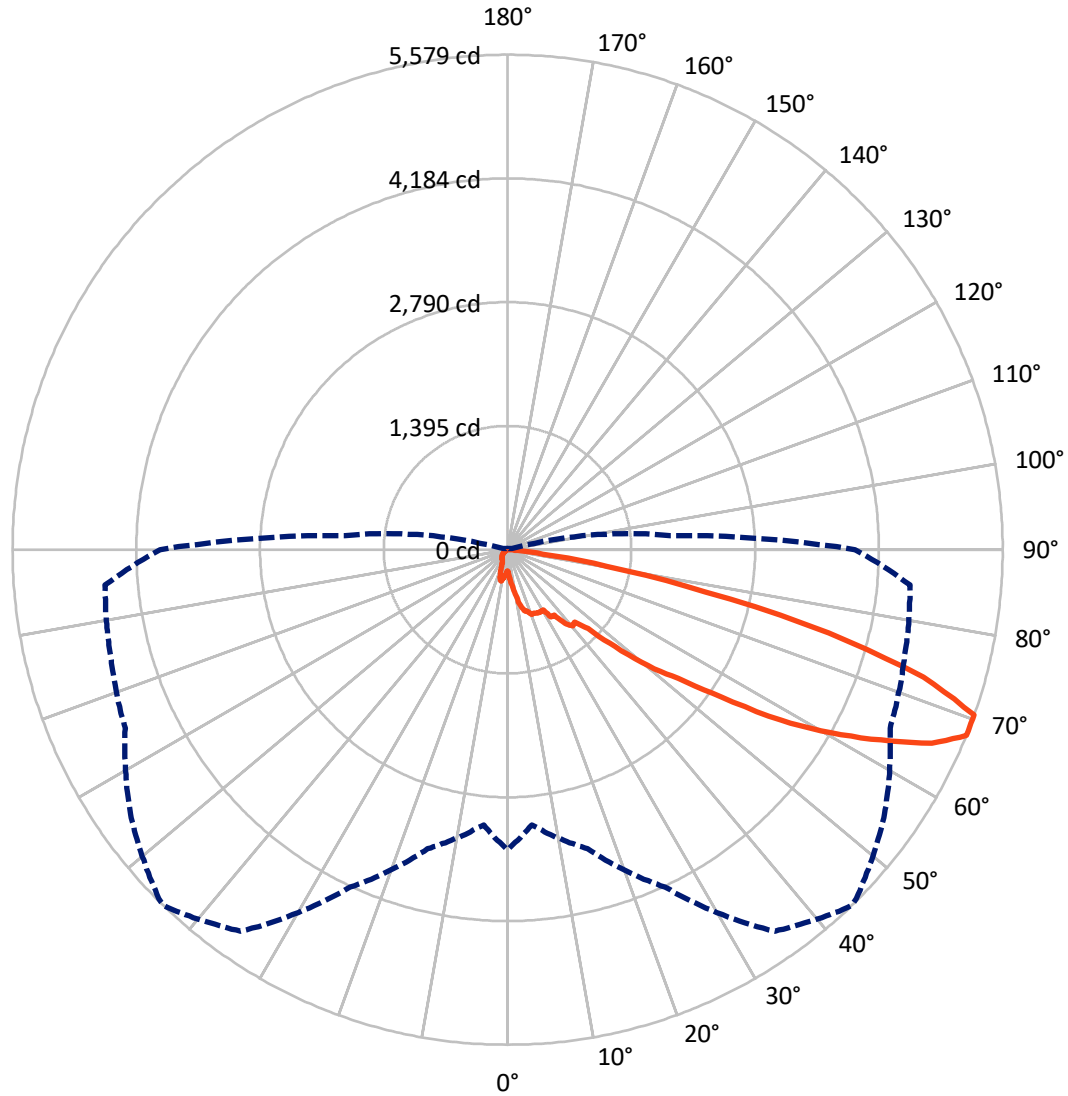
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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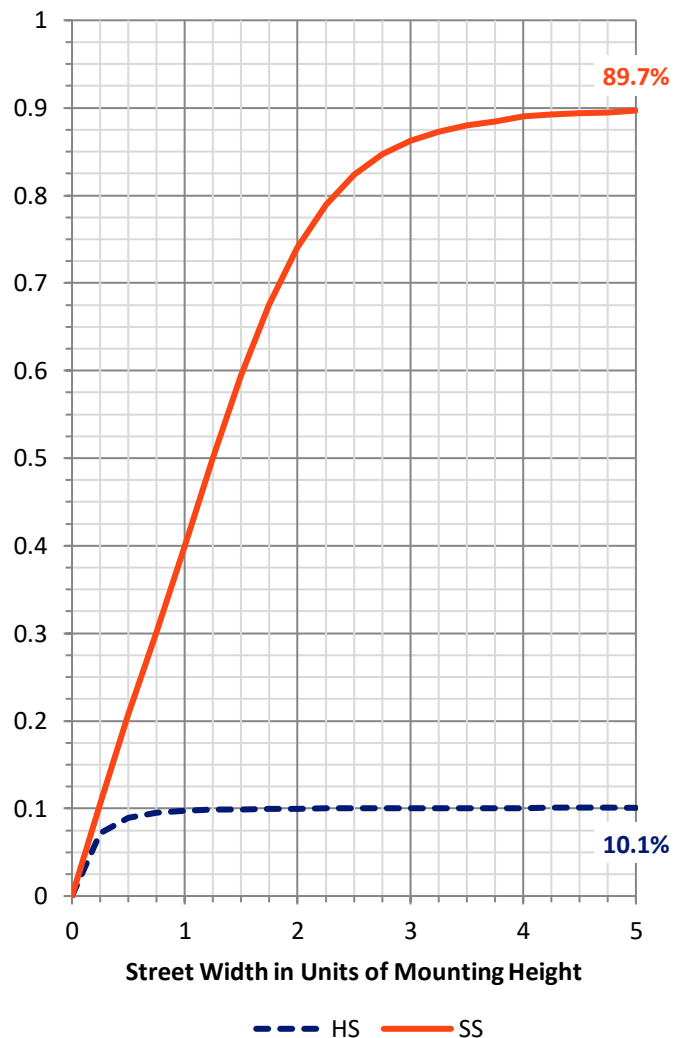
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 713.8    | 0.0    | 713.8  |
|                    | % Fixture | 10.2     | 0.0    | 10.2   |
| <b>Street Side</b> | Lumens    | 6313.2   | 0.0    | 6313.2 |
|                    | % Fixture | 89.8     | 0.0    | 89.8   |
| <b>Total</b>       | Lumens    | 7027.0   | 0.0    | 7027.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 35.1   | 0.5       |
| 10°-20°   | 146.9  | 2.1       |
| 20°-30°   | 260.3  | 3.7       |
| 30°-40°   | 423.0  | 6.0       |
| 40°-50°   | 846.5  | 12.0      |
| 50°-60°   | 1736.6 | 24.7      |
| 60°-70°   | 2385.6 | 33.9      |
| 70°-80°   | 1121.2 | 16.0      |
| 80°-90°   | 71.8   | 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°    | 7027.0 | 100.0     |
| 0°-180°   | 7027.0 | 100.0     |

**Coefficient of Utilization**

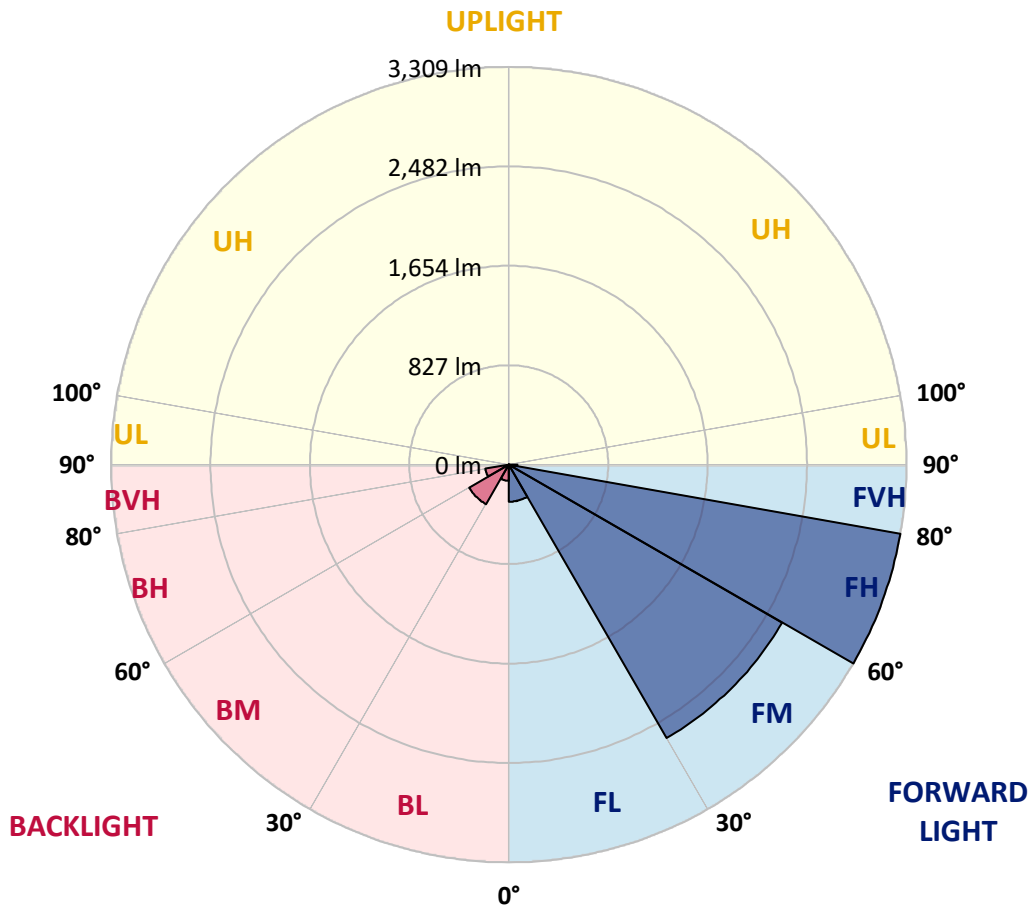


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 308.2  | 4.4       |                         |      |         |
| FM (30°-60°)   | 2625.9 | 37.4      |                         |      |         |
| FH (60°-80°)   | 3308.8 | 47.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 70.3   | 1.0       |                         |      | G1/100  |
| BL (0°-30°)    | 134.0  | 1.9       | B1/500                  |      |         |
| BM (30°-60°)   | 380.2  | 5.4       | B1/1000                 |      |         |
| BH (60°-80°)   | 198.1  | 2.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.5    | 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-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 44°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 236.8  | 236.8  | 236.8  | 236.8  | 236.8  | 236.8  | 236.8  | 236.8  | 236.8  | 236.8  | 236.8  |
| 2.5°  | 301.1  | 291.4  | 277.4  | 280.5  | 282.1  | 286.4  | 286.7  | 281.3  | 265.8  | 261.6  | 280.5  |
| 5°    | 422.0  | 398.3  | 394.1  | 385.2  | 367.3  | 357.6  | 355.3  | 365.0  | 352.6  | 348.7  | 353.8  |
| 7.5°  | 539.0  | 518.8  | 496.8  | 484.7  | 447.5  | 424.7  | 423.5  | 427.4  | 429.7  | 416.2  | 423.1  |
| 10°   | 616.9  | 594.8  | 590.1  | 561.9  | 529.7  | 524.3  | 521.9  | 507.2  | 495.2  | 485.1  | 451.4  |
| 12.5° | 687.4  | 687.0  | 695.5  | 654.9  | 649.8  | 655.2  | 653.3  | 600.6  | 588.6  | 546.4  | 536.7  |
| 15°   | 781.2  | 804.4  | 767.6  | 733.5  | 690.1  | 708.7  | 703.7  | 670.0  | 661.8  | 633.2  | 591.7  |
| 17.5° | 878.4  | 884.6  | 823.0  | 770.7  | 759.5  | 735.1  | 740.1  | 728.1  | 687.0  | 709.9  | 668.8  |
| 20°   | 880.8  | 894.3  | 828.4  | 742.0  | 776.5  | 775.4  | 775.7  | 764.1  | 709.9  | 763.3  | 725.8  |
| 22.5° | 913.3  | 880.0  | 818.8  | 763.7  | 769.9  | 775.7  | 781.9  | 767.6  | 756.0  | 769.2  | 776.1  |
| 25°   | 900.1  | 887.0  | 828.1  | 791.6  | 785.8  | 790.5  | 792.0  | 810.2  | 802.9  | 834.6  | 817.2  |
| 27.5° | 934.2  | 915.2  | 809.8  | 816.4  | 795.9  | 790.5  | 781.2  | 842.0  | 863.7  | 838.5  | 885.0  |
| 30°   | 992.7  | 990.0  | 841.2  | 850.9  | 835.0  | 787.4  | 812.2  | 891.6  | 918.7  | 903.2  | 959.8  |
| 32.5° | 1084.2 | 1093.5 | 933.1  | 870.3  | 878.4  | 899.7  | 890.4  | 891.6  | 960.2  | 994.7  | 1039.6 |
| 35°   | 1214.0 | 1209.0 | 1022.6 | 943.9  | 901.3  | 904.8  | 918.0  | 981.1  | 1069.8 | 1067.5 | 1115.2 |
| 37.5° | 1469.0 | 1413.9 | 1181.1 | 1019.1 | 1031.9 | 1049.3 | 1039.6 | 1124.5 | 1133.0 | 1136.1 | 1250.0 |
| 40°   | 1844.8 | 1771.6 | 1431.0 | 1177.6 | 1054.3 | 1131.5 | 1126.8 | 1147.7 | 1204.7 | 1226.0 | 1392.2 |
| 42.5° | 2340.0 | 2241.6 | 1870.8 | 1469.0 | 1162.8 | 1109.8 | 1138.4 | 1178.0 | 1369.4 | 1430.2 | 1612.3 |
| 45°   | 2887.2 | 2688.0 | 2309.4 | 1884.3 | 1434.9 | 1270.2 | 1291.9 | 1365.5 | 1630.9 | 1731.7 | 1932.8 |
| 47.5° | 3241.7 | 3066.6 | 2743.8 | 2252.5 | 1718.5 | 1632.1 | 1634.0 | 1649.9 | 1938.2 | 2125.0 | 2394.7 |
| 50°   | 3549.8 | 3363.4 | 3063.8 | 2637.2 | 2220.3 | 2056.8 | 2019.6 | 1946.3 | 2329.6 | 2584.9 | 2884.1 |
| 52.5° | 3984.5 | 3766.7 | 3383.9 | 3088.6 | 2792.6 | 2407.4 | 2394.3 | 2419.1 | 2791.1 | 3059.6 | 3385.8 |
| 55°   | 4376.6 | 4112.0 | 3746.6 | 3560.6 | 3445.1 | 2922.8 | 2934.0 | 2975.5 | 3383.5 | 3525.7 | 3832.2 |
| 57.5° | 4549.9 | 4263.1 | 4075.2 | 3991.5 | 3929.9 | 3626.9 | 3588.9 | 3564.1 | 3850.8 | 3905.1 | 4299.9 |
| 60°   | 4663.4 | 4390.6 | 4305.3 | 4324.7 | 4511.5 | 4189.9 | 4155.4 | 4011.2 | 4237.5 | 4282.1 | 4719.2 |
| 62.5° | 4591.7 | 4342.9 | 4361.1 | 4522.7 | 4937.3 | 4725.8 | 4626.2 | 4385.2 | 4553.7 | 4589.8 | 5020.3 |
| 65°   | 4140.3 | 3881.1 | 4115.1 | 4506.1 | 5262.0 | 5257.0 | 5210.9 | 4730.4 | 4728.9 | 4775.0 | 5043.5 |
| 67.5° | 3382.0 | 3110.0 | 3488.5 | 4193.8 | 5248.5 | 5579.0 | 5557.3 | 5188.4 | 4754.1 | 4630.8 | 4551.4 |
| 70°   | 2351.3 | 2115.3 | 2544.6 | 3463.3 | 4780.8 | 5576.7 | 5541.8 | 5496.1 | 4554.9 | 3986.1 | 3528.8 |
| 72.5° | 1221.7 | 1091.9 | 1491.8 | 2386.5 | 3810.9 | 4899.8 | 5014.8 | 4939.7 | 3889.2 | 2896.1 | 2078.1 |
| 75°   | 415.0  | 372.4  | 615.3  | 1266.7 | 2533.4 | 3741.6 | 3876.4 | 3800.1 | 2641.5 | 1553.8 | 821.9  |
| 77.5° | 160.8  | 149.6  | 220.5  | 514.2  | 1271.0 | 2280.0 | 2426.4 | 2348.5 | 1416.6 | 569.2  | 193.4  |
| 80°   | 91.4   | 88.3   | 121.7  | 231.7  | 560.3  | 1134.2 | 1237.2 | 1122.2 | 510.7  | 191.8  | 50.4   |
| 82.5° | 38.7   | 39.9   | 67.8   | 125.2  | 281.7  | 400.3  | 446.4  | 407.2  | 213.9  | 131.4  | 18.6   |
| 85°   | 8.5    | 10.5   | 32.2   | 69.7   | 118.2  | 114.3  | 119.7  | 132.9  | 131.4  | 96.5   | 8.1    |
| 87.5° | 0.0    | 0.0    | 10.1   | 19.0   | 28.3   | 18.6   | 14.7   | 26.0   | 40.3   | 38.7   | 3.5    |
| 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°    | 236.8  | 236.8  | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 | 236.8 |
| 2.5°  | 284.0  | 280.2  | 255.7 | 254.2 | 255.7 | 251.5 | 251.1 | 242.2 | 243.0 | 263.1 | 264.7 |
| 5°    | 353.8  | 334.4  | 313.5 | 306.9 | 300.7 | 286.7 | 294.5 | 294.5 | 294.5 | 307.3 | 311.2 |
| 7.5°  | 416.9  | 391.0  | 361.5 | 336.7 | 312.7 | 295.3 | 307.3 | 315.8 | 320.8 | 337.5 | 345.2 |
| 10°   | 445.6  | 420.0  | 393.7 | 358.4 | 339.8 | 333.2 | 319.3 | 311.9 | 320.8 | 317.4 | 321.6 |
| 12.5° | 506.8  | 483.6  | 438.2 | 401.8 | 387.9 | 365.4 | 324.3 | 295.7 | 276.7 | 273.6 | 272.8 |
| 15°   | 566.5  | 552.2  | 491.3 | 442.5 | 394.1 | 342.1 | 272.0 | 234.0 | 213.9 | 210.4 | 210.8 |
| 17.5° | 642.1  | 621.5  | 532.0 | 461.9 | 379.7 | 286.4 | 210.0 | 177.5 | 175.9 | 184.4 | 185.2 |
| 20°   | 692.4  | 658.7  | 552.6 | 446.0 | 332.5 | 216.6 | 164.3 | 156.5 | 168.9 | 184.4 | 182.9 |
| 22.5° | 740.5  | 704.1  | 579.7 | 432.0 | 257.7 | 164.3 | 151.1 | 151.9 | 162.4 | 179.0 | 183.3 |
| 25°   | 772.3  | 759.1  | 613.0 | 399.5 | 196.5 | 142.2 | 144.5 | 150.3 | 159.3 | 175.1 | 175.1 |
| 27.5° | 868.0  | 806.4  | 609.1 | 336.3 | 151.1 | 132.5 | 137.9 | 145.3 | 150.0 | 168.9 | 170.9 |
| 30°   | 926.1  | 905.9  | 629.3 | 272.0 | 132.5 | 120.1 | 130.6 | 137.2 | 140.3 | 162.0 | 162.7 |
| 32.5° | 997.4  | 952.8  | 653.7 | 200.7 | 123.2 | 119.3 | 117.0 | 122.1 | 131.0 | 150.0 | 151.1 |
| 35°   | 1084.2 | 1071.0 | 618.8 | 157.7 | 120.1 | 111.6 | 106.9 | 109.7 | 115.5 | 128.3 | 131.0 |
| 37.5° | 1261.3 | 1183.0 | 597.9 | 135.2 | 120.1 | 108.9 | 103.8 | 96.9  | 97.6  | 106.6 | 111.6 |
| 40°   | 1410.4 | 1386.4 | 539.4 | 131.4 | 114.7 | 105.0 | 92.6  | 84.1  | 78.3  | 81.0  | 82.9  |
| 42.5° | 1684.4 | 1573.2 | 463.8 | 129.4 | 109.7 | 94.9  | 78.7  | 69.7  | 60.8  | 61.6  | 64.7  |
| 45°   | 2016.9 | 1777.0 | 396.4 | 127.5 | 106.2 | 84.9  | 66.3  | 55.8  | 46.5  | 46.9  | 50.0  |
| 47.5° | 2460.9 | 2074.2 | 314.6 | 121.7 | 100.0 | 75.6  | 53.5  | 42.6  | 37.2  | 38.4  | 41.1  |
| 50°   | 2965.4 | 2335.0 | 248.8 | 112.8 | 92.6  | 66.6  | 43.4  | 34.5  | 32.5  | 33.7  | 36.8  |
| 52.5° | 3416.1 | 2527.2 | 205.4 | 104.6 | 82.1  | 54.2  | 36.4  | 30.6  | 29.8  | 30.6  | 32.9  |
| 55°   | 3816.7 | 2638.8 | 171.7 | 95.3  | 70.5  | 43.8  | 32.9  | 28.3  | 27.9  | 27.5  | 29.1  |
| 57.5° | 4192.6 | 2670.9 | 134.1 | 80.6  | 57.3  | 38.0  | 30.6  | 26.3  | 25.6  | 24.4  | 25.6  |
| 60°   | 4466.5 | 2615.9 | 98.4  | 64.7  | 46.9  | 34.5  | 28.7  | 23.6  | 22.5  | 20.5  | 21.3  |
| 62.5° | 4598.7 | 2465.2 | 74.4  | 51.9  | 39.9  | 31.4  | 25.6  | 20.5  | 19.0  | 16.7  | 17.0  |
| 65°   | 4473.1 | 2216.8 | 58.5  | 43.8  | 34.1  | 26.3  | 21.7  | 17.4  | 15.5  | 13.2  | 13.2  |
| 67.5° | 3917.1 | 1839.0 | 49.6  | 38.0  | 28.7  | 22.5  | 17.8  | 15.9  | 12.8  | 10.8  | 10.5  |
| 70°   | 2875.1 | 1322.9 | 42.6  | 33.3  | 24.8  | 19.4  | 15.1  | 14.3  | 12.4  | 10.5  | 9.7   |
| 72.5° | 1622.8 | 748.6  | 36.4  | 29.4  | 20.9  | 16.3  | 12.8  | 13.2  | 12.0  | 9.7   | 8.9   |
| 75°   | 619.2  | 252.3  | 30.2  | 24.4  | 17.0  | 12.4  | 10.8  | 10.8  | 10.8  | 8.1   | 7.0   |
| 77.5° | 153.4  | 64.3   | 24.0  | 19.8  | 13.6  | 8.1   | 8.9   | 9.3   | 9.3   | 7.0   | 5.0   |
| 80°   | 42.2   | 21.7   | 14.3  | 14.3  | 9.7   | 4.6   | 6.2   | 6.2   | 5.0   | 2.3   | 0.0   |
| 82.5° | 15.5   | 8.1    | 5.0   | 6.2   | 4.3   | 1.5   | 2.3   | 1.5   | 1.2   | 0.0   | 0.0   |
| 85°   | 6.6    | 4.3    | 3.1   | 3.5   | 1.9   | 0.0   | 0.4   | 0.8   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.7    | 1.9    | 1.5   | 1.5   | 0.8   | 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)