

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: P367143

Luminaire Tested: **PMM-SA2A-727-U-T3-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-11)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA2A-727-U-T3-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4909 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

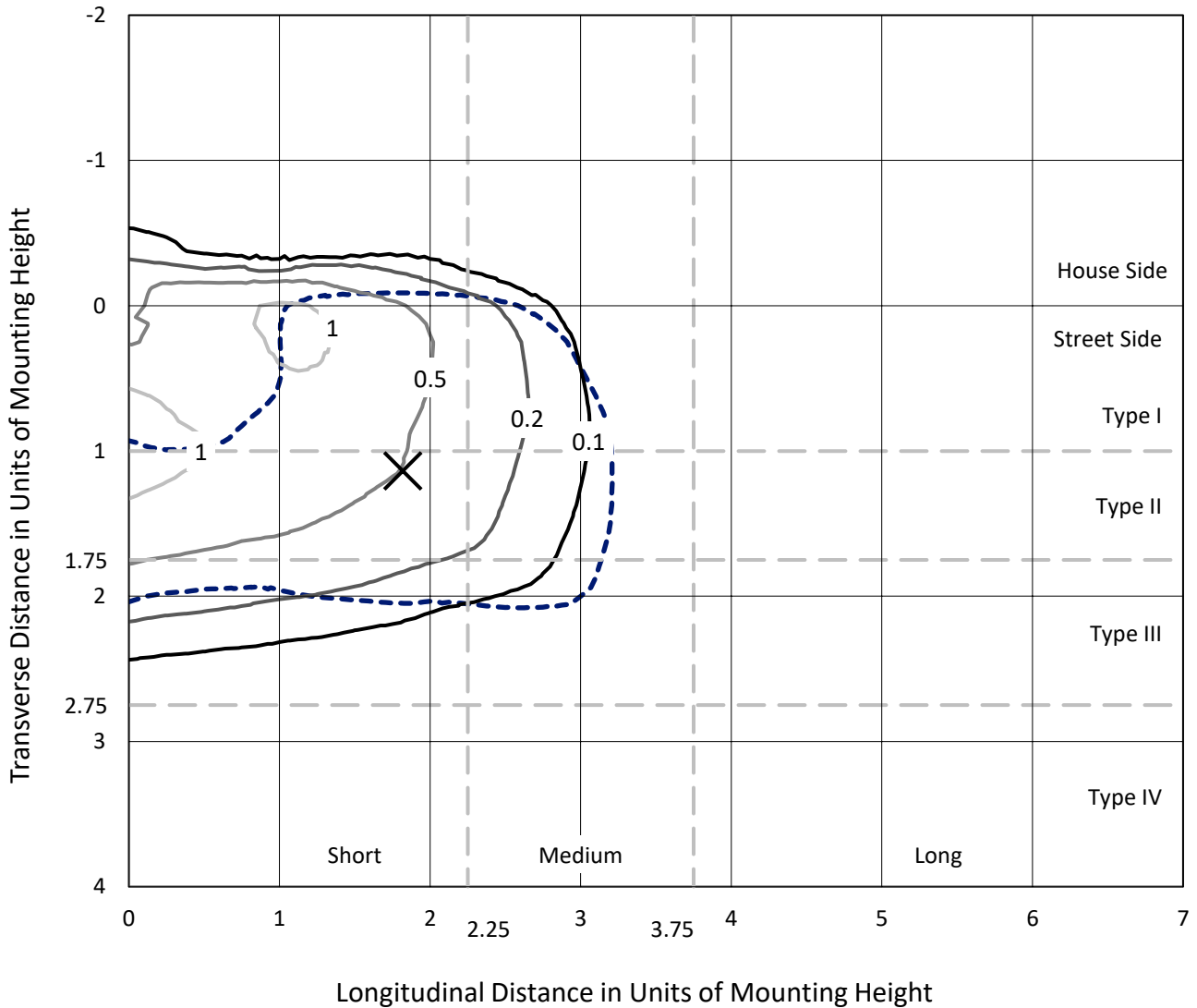
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

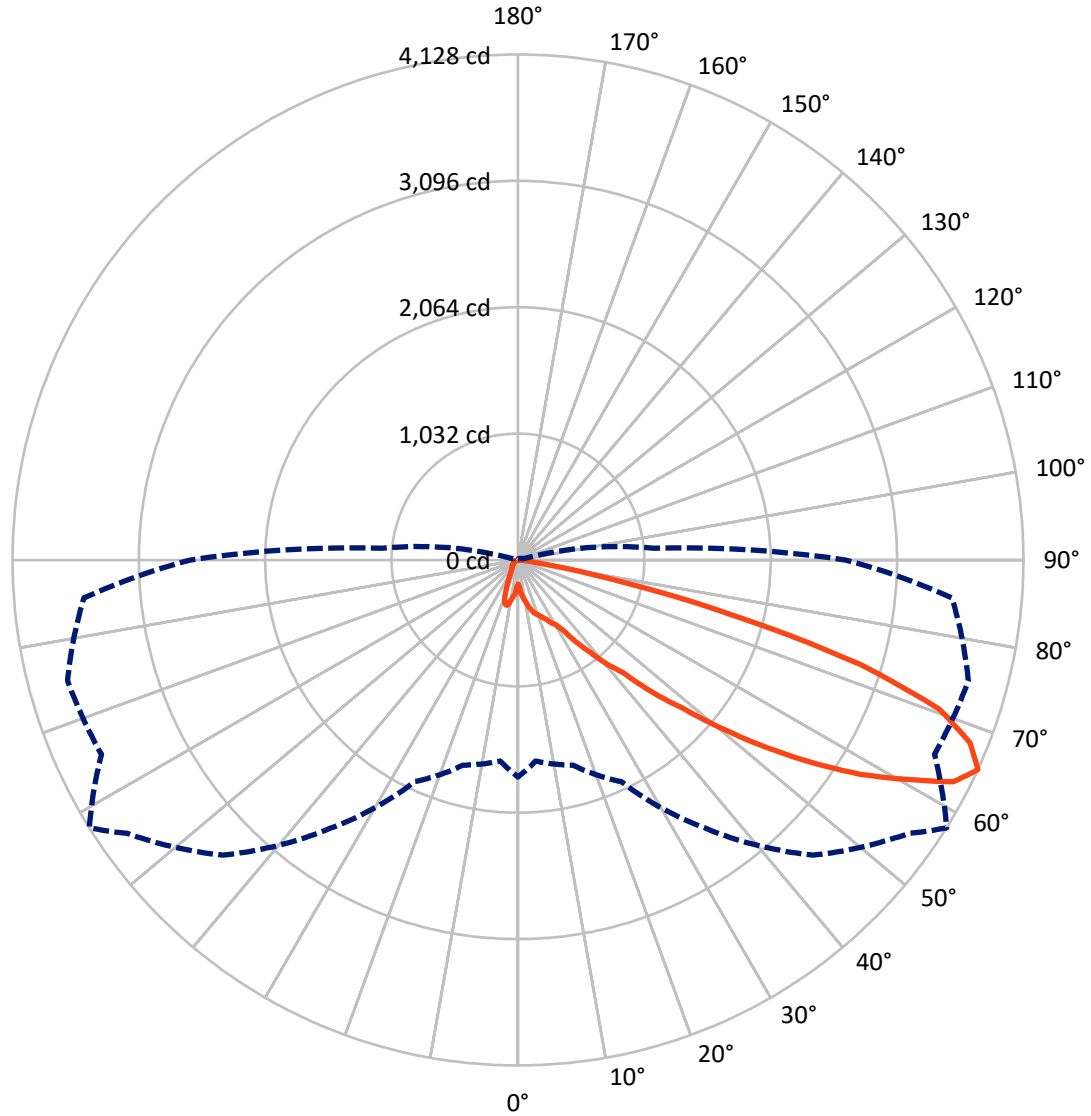
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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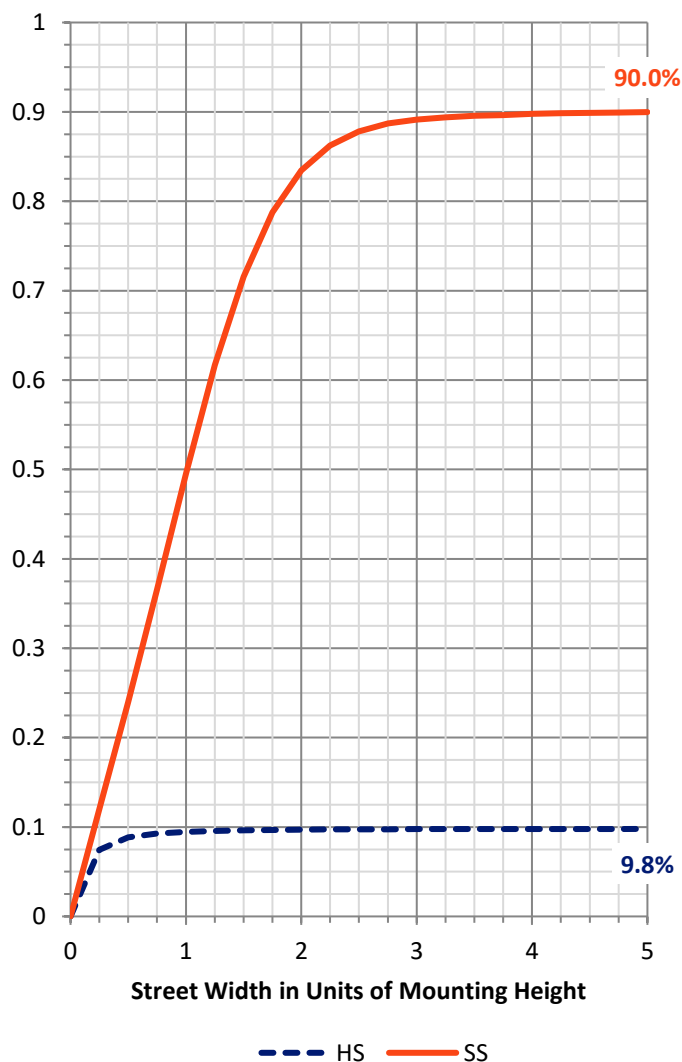
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 484.4 | 0.0 | 484.4 |
| | % Fixture | 9.9 | 0.0 | 9.9 |
| Street Side | Lumens | 4424.6 | 0.0 | 4424.6 |
| | % Fixture | 90.1 | 0.0 | 90.1 |
| Total | Lumens | 4909.0 | 0.0 | 4909.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 27.6 | 0.6 |
| 10°-20° | 100.8 | 2.1 |
| 20°-30° | 195.1 | 4.0 |
| 30°-40° | 389.2 | 7.9 |
| 40°-50° | 795.6 | 16.2 |
| 50°-60° | 1411.1 | 28.7 |
| 60°-70° | 1487.7 | 30.3 |
| 70°-80° | 482.3 | 9.8 |
| 80°-90° | 19.7 | 0.4 |
| 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° | 4909.0 | 100.0 |
| 0°-180° | 4909.0 | 100.0 |

Coefficient of Utilization



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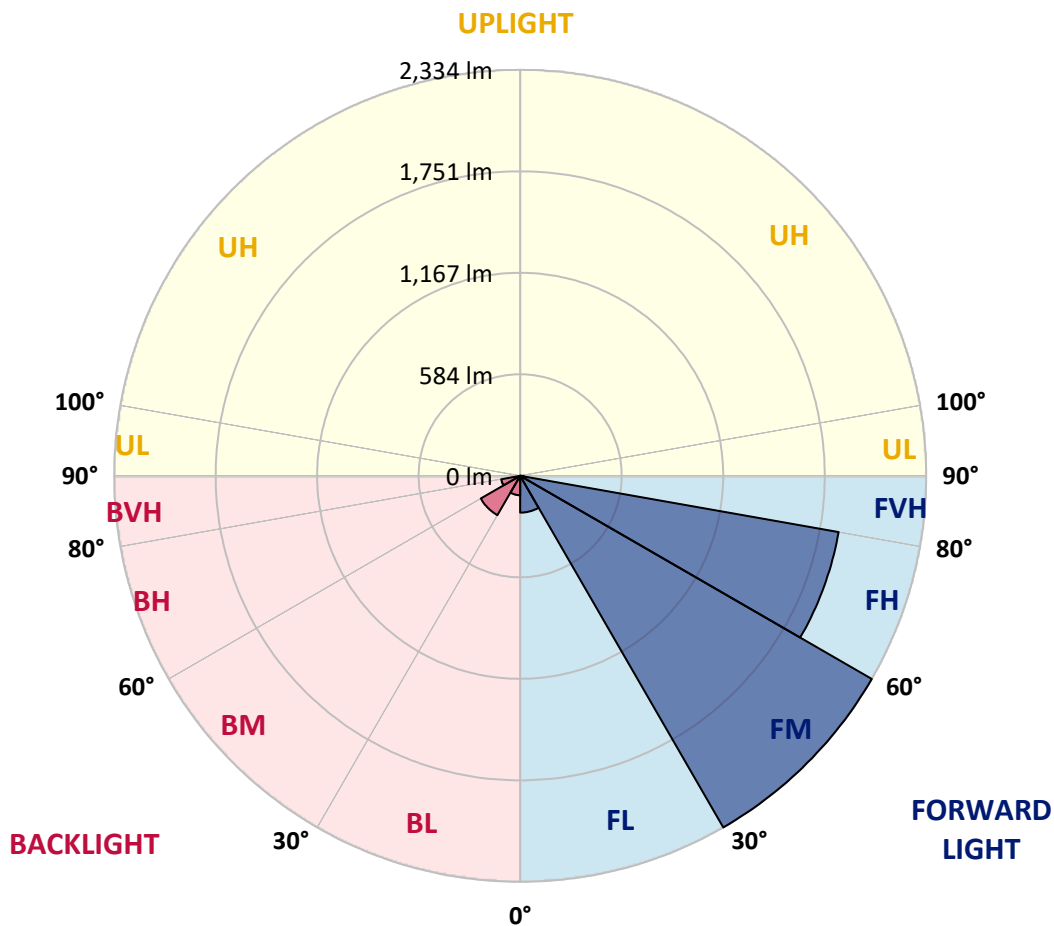
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 211.8 | 4.3 | | | |
| FM (30°-60°) | 2334.5 | 47.6 | | | |
| FH (60°-80°) | 1859.5 | 37.9 | | | G2/5000 |
| FVH (80°-90°) | 18.9 | 0.4 | | | G1/100 |
| BL (0°-30°) | 111.7 | 2.3 | B1/500 | | |
| BM (30°-60°) | 261.3 | 5.3 | B1/1000 | | |
| BH (60°-80°) | 110.6 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.8 | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 196.5 | 196.5 | 196.5 | 196.5 | 196.5 | 196.5 | 196.5 | 196.5 | 196.5 | 196.5 | 196.5 |
| 2.5° | 239.9 | 232.7 | 221.4 | 223.3 | 225.5 | 230.0 | 226.4 | 223.0 | 219.5 | 214.8 | 232.7 |
| 5° | 289.7 | 277.8 | 276.7 | 274.2 | 272.2 | 272.0 | 276.4 | 275.0 | 276.9 | 285.8 | 294.9 |
| 7.5° | 307.9 | 302.9 | 293.5 | 297.4 | 291.3 | 286.6 | 306.2 | 312.6 | 324.8 | 328.9 | 352.7 |
| 10° | 306.0 | 298.8 | 302.6 | 304.6 | 308.7 | 325.9 | 338.3 | 345.2 | 355.7 | 378.4 | 373.7 |
| 12.5° | 314.8 | 321.2 | 325.3 | 325.6 | 346.9 | 378.4 | 387.2 | 393.0 | 411.8 | 420.7 | 443.9 |
| 15° | 344.4 | 354.9 | 348.3 | 351.0 | 357.9 | 396.3 | 417.1 | 429.8 | 456.3 | 485.1 | 490.9 |
| 17.5° | 386.7 | 393.3 | 379.5 | 369.5 | 388.6 | 409.6 | 447.2 | 460.5 | 477.3 | 544.5 | 556.9 |
| 20° | 440.0 | 451.3 | 421.5 | 382.0 | 407.1 | 432.0 | 472.9 | 479.3 | 497.2 | 584.8 | 604.5 |
| 22.5° | 564.7 | 547.8 | 502.2 | 440.6 | 433.1 | 444.2 | 483.1 | 508.0 | 538.4 | 607.5 | 653.1 |
| 25° | 687.7 | 681.9 | 614.7 | 545.9 | 496.1 | 471.2 | 522.9 | 536.8 | 586.5 | 661.4 | 686.6 |
| 27.5° | 824.5 | 836.1 | 723.9 | 682.1 | 584.6 | 503.3 | 547.8 | 582.4 | 641.2 | 681.0 | 741.6 |
| 30° | 1005.0 | 986.4 | 854.9 | 813.1 | 701.8 | 591.5 | 612.2 | 614.4 | 700.9 | 745.7 | 803.2 |
| 32.5° | 1146.5 | 1158.4 | 993.1 | 929.0 | 840.0 | 727.2 | 660.6 | 689.3 | 751.2 | 851.0 | 905.5 |
| 35° | 1299.6 | 1298.5 | 1137.4 | 1051.1 | 934.8 | 838.0 | 804.0 | 825.0 | 902.7 | 1015.7 | 1030.1 |
| 37.5° | 1528.4 | 1508.8 | 1318.7 | 1192.4 | 1093.4 | 1010.8 | 984.8 | 956.9 | 1037.0 | 1144.8 | 1198.7 |
| 40° | 1744.3 | 1676.6 | 1500.8 | 1351.0 | 1224.4 | 1190.7 | 1096.7 | 1113.9 | 1137.6 | 1280.0 | 1428.9 |
| 42.5° | 1962.4 | 1920.4 | 1685.4 | 1560.0 | 1404.3 | 1324.2 | 1262.8 | 1254.8 | 1367.9 | 1536.5 | 1690.4 |
| 45° | 2250.1 | 2121.6 | 1933.6 | 1823.4 | 1643.2 | 1562.7 | 1513.2 | 1542.8 | 1644.5 | 1890.8 | 1993.3 |
| 47.5° | 2491.7 | 2373.4 | 2212.0 | 2044.5 | 1855.4 | 1945.8 | 1852.9 | 1806.2 | 1945.8 | 2200.4 | 2336.6 |
| 50° | 2699.2 | 2567.4 | 2404.1 | 2280.0 | 2249.3 | 2336.1 | 2148.1 | 2165.3 | 2255.9 | 2555.0 | 2631.8 |
| 52.5° | 2850.2 | 2711.4 | 2568.8 | 2508.8 | 2634.6 | 2678.2 | 2584.0 | 2546.1 | 2628.5 | 2857.3 | 2894.7 |
| 55° | 2963.8 | 2821.7 | 2710.3 | 2792.9 | 3036.2 | 3021.8 | 3055.0 | 2925.6 | 3004.4 | 3172.7 | 3155.0 |
| 57.5° | 2970.7 | 2802.3 | 2737.1 | 2870.1 | 3203.9 | 3426.4 | 3523.4 | 3303.4 | 3348.2 | 3419.2 | 3379.4 |
| 60° | 2753.4 | 2585.9 | 2580.7 | 2769.5 | 3252.6 | 3531.2 | 3743.5 | 3636.2 | 3576.2 | 3629.0 | 3553.6 |
| 62.5° | 2320.6 | 2203.4 | 2258.1 | 2466.8 | 3071.5 | 3473.4 | 3860.6 | 3989.7 | 3756.2 | 3768.1 | 3660.8 |
| 65° | 1772.0 | 1649.0 | 1734.6 | 1997.5 | 2675.8 | 3408.7 | 3893.8 | 4127.9 | 3752.9 | 3807.6 | 3558.0 |
| 67.5° | 1173.6 | 1102.3 | 1199.3 | 1488.9 | 2127.4 | 3009.1 | 3876.7 | 3982.8 | 3633.7 | 3653.1 | 3176.3 |
| 70° | 605.9 | 588.4 | 666.9 | 895.5 | 1430.3 | 2311.7 | 3708.4 | 3650.3 | 3391.9 | 3147.0 | 2449.9 |
| 72.5° | 194.0 | 194.9 | 270.3 | 409.1 | 771.1 | 1407.4 | 2850.4 | 2930.0 | 2714.2 | 2302.1 | 1495.8 |
| 75° | 86.0 | 84.6 | 113.0 | 171.6 | 321.4 | 631.0 | 1770.8 | 1856.8 | 1689.9 | 1266.4 | 628.8 |
| 77.5° | 61.9 | 60.0 | 72.4 | 100.3 | 159.2 | 213.9 | 830.3 | 896.1 | 766.2 | 438.9 | 144.0 |
| 80° | 43.7 | 43.4 | 52.5 | 70.5 | 99.5 | 95.1 | 262.3 | 294.1 | 235.5 | 106.4 | 42.3 |
| 82.5° | 24.6 | 25.4 | 36.5 | 49.8 | 60.5 | 47.5 | 73.8 | 81.3 | 79.3 | 56.7 | 18.5 |
| 85° | 11.9 | 13.3 | 23.8 | 35.9 | 31.8 | 18.5 | 26.3 | 28.5 | 33.2 | 32.9 | 9.4 |
| 87.5° | 0.0 | 0.0 | 9.7 | 16.3 | 8.6 | 2.8 | 8.0 | 9.1 | 8.8 | 10.5 | 2.2 |
| 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° | 196.5 | 196.5 | 196.5 | 196.5 | 196.5 | 196.5 | 196.5 | 196.5 | 196.5 | 196.5 | 196.5 |
| 2.5° | 236.3 | 234.7 | 213.7 | 215.3 | 220.0 | 218.1 | 219.7 | 215.9 | 211.4 | 229.4 | 229.1 |
| 5° | 298.8 | 286.3 | 279.7 | 273.6 | 274.7 | 262.3 | 269.5 | 272.8 | 272.2 | 282.5 | 285.2 |
| 7.5° | 353.5 | 336.9 | 323.7 | 310.9 | 291.6 | 274.2 | 285.0 | 291.9 | 296.6 | 314.3 | 321.2 |
| 10° | 379.2 | 365.7 | 360.4 | 335.5 | 321.7 | 310.9 | 298.0 | 288.6 | 292.4 | 287.7 | 292.4 |
| 12.5° | 435.6 | 426.5 | 406.3 | 381.1 | 364.6 | 342.4 | 294.1 | 253.7 | 228.9 | 229.1 | 227.5 |
| 15° | 487.0 | 486.5 | 456.3 | 414.6 | 366.5 | 303.5 | 228.0 | 177.2 | 153.7 | 147.0 | 144.8 |
| 17.5° | 554.2 | 545.9 | 490.9 | 429.2 | 342.7 | 234.9 | 155.3 | 121.3 | 119.1 | 123.0 | 121.3 |
| 20° | 597.0 | 584.8 | 508.0 | 408.0 | 282.5 | 158.9 | 117.2 | 107.5 | 114.1 | 119.7 | 118.3 |
| 22.5° | 639.8 | 621.6 | 521.0 | 382.0 | 200.9 | 116.4 | 105.9 | 104.2 | 108.3 | 115.3 | 116.4 |
| 25° | 663.3 | 659.7 | 546.4 | 333.3 | 137.6 | 102.0 | 102.0 | 101.4 | 102.8 | 107.8 | 107.0 |
| 27.5° | 731.6 | 683.0 | 527.4 | 260.1 | 106.4 | 93.7 | 95.1 | 94.5 | 89.6 | 94.5 | 94.8 |
| 30° | 774.2 | 751.8 | 528.7 | 185.2 | 93.7 | 82.9 | 86.5 | 82.1 | 74.6 | 78.8 | 77.9 |
| 32.5° | 859.9 | 804.0 | 524.6 | 124.9 | 85.4 | 79.0 | 73.5 | 67.2 | 61.6 | 63.3 | 61.9 |
| 35° | 959.6 | 917.1 | 468.5 | 100.3 | 79.6 | 69.9 | 61.1 | 54.7 | 48.9 | 50.3 | 50.0 |
| 37.5° | 1158.1 | 1022.9 | 422.1 | 90.4 | 75.7 | 64.1 | 53.9 | 45.1 | 42.0 | 42.8 | 43.7 |
| 40° | 1341.9 | 1199.5 | 335.5 | 86.0 | 69.1 | 57.2 | 44.5 | 38.1 | 36.2 | 36.8 | 37.6 |
| 42.5° | 1616.6 | 1339.9 | 253.5 | 81.5 | 62.5 | 48.4 | 37.0 | 32.9 | 31.0 | 32.1 | 32.6 |
| 45° | 1882.5 | 1459.4 | 189.3 | 77.7 | 56.9 | 41.7 | 31.2 | 28.5 | 26.3 | 27.1 | 28.2 |
| 47.5° | 2148.1 | 1592.0 | 141.2 | 71.6 | 50.9 | 35.9 | 26.8 | 24.9 | 23.5 | 23.8 | 25.2 |
| 50° | 2385.8 | 1653.9 | 111.1 | 64.1 | 45.9 | 31.2 | 24.3 | 22.4 | 21.8 | 22.1 | 23.2 |
| 52.5° | 2560.5 | 1654.5 | 93.7 | 57.5 | 41.2 | 27.6 | 22.9 | 20.7 | 20.5 | 21.0 | 22.1 |
| 55° | 2718.3 | 1610.3 | 81.3 | 51.7 | 37.0 | 25.2 | 21.8 | 19.9 | 19.9 | 20.5 | 21.6 |
| 57.5° | 2823.1 | 1529.0 | 70.5 | 45.6 | 33.4 | 23.8 | 21.0 | 19.1 | 18.8 | 18.5 | 19.3 |
| 60° | 2874.2 | 1418.2 | 59.7 | 40.1 | 30.1 | 22.9 | 20.5 | 16.9 | 16.6 | 16.0 | 16.6 |
| 62.5° | 2841.9 | 1279.4 | 50.0 | 34.5 | 26.8 | 21.8 | 18.0 | 14.6 | 14.1 | 13.0 | 13.8 |
| 65° | 2676.6 | 1110.8 | 42.3 | 29.6 | 23.2 | 18.5 | 15.2 | 12.4 | 11.1 | 9.7 | 9.4 |
| 67.5° | 2338.6 | 902.4 | 35.4 | 25.4 | 19.9 | 15.2 | 12.4 | 11.1 | 8.6 | 7.5 | 7.2 |
| 70° | 1752.6 | 616.1 | 29.3 | 21.8 | 16.6 | 13.0 | 10.5 | 10.0 | 8.0 | 7.2 | 6.6 |
| 72.5° | 1028.2 | 332.5 | 24.6 | 19.1 | 14.1 | 10.8 | 8.6 | 9.1 | 8.0 | 6.6 | 6.1 |
| 75° | 410.7 | 110.6 | 19.6 | 15.2 | 11.3 | 7.7 | 7.2 | 7.5 | 7.2 | 6.1 | 5.0 |
| 77.5° | 93.7 | 34.8 | 15.2 | 11.9 | 8.8 | 5.0 | 5.8 | 6.4 | 6.4 | 5.0 | 3.6 |
| 80° | 29.3 | 13.8 | 8.8 | 7.5 | 6.4 | 2.8 | 4.1 | 4.4 | 3.0 | 1.4 | 0.0 |
| 82.5° | 9.4 | 3.9 | 3.0 | 3.0 | 2.8 | 0.6 | 0.8 | 0.6 | 0.0 | 0.0 | 0.0 |
| 85° | 3.6 | 2.5 | 1.9 | 1.9 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.4 | 1.1 | 0.8 | 1.1 | 0.6 | 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)