

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: P367210

Luminaire Tested: **PMM-SA2A-750-U-T3**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-10)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA2A-750-U-T3
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7937 lumens
Efficiency: N/A
Efficacy: 120.3 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

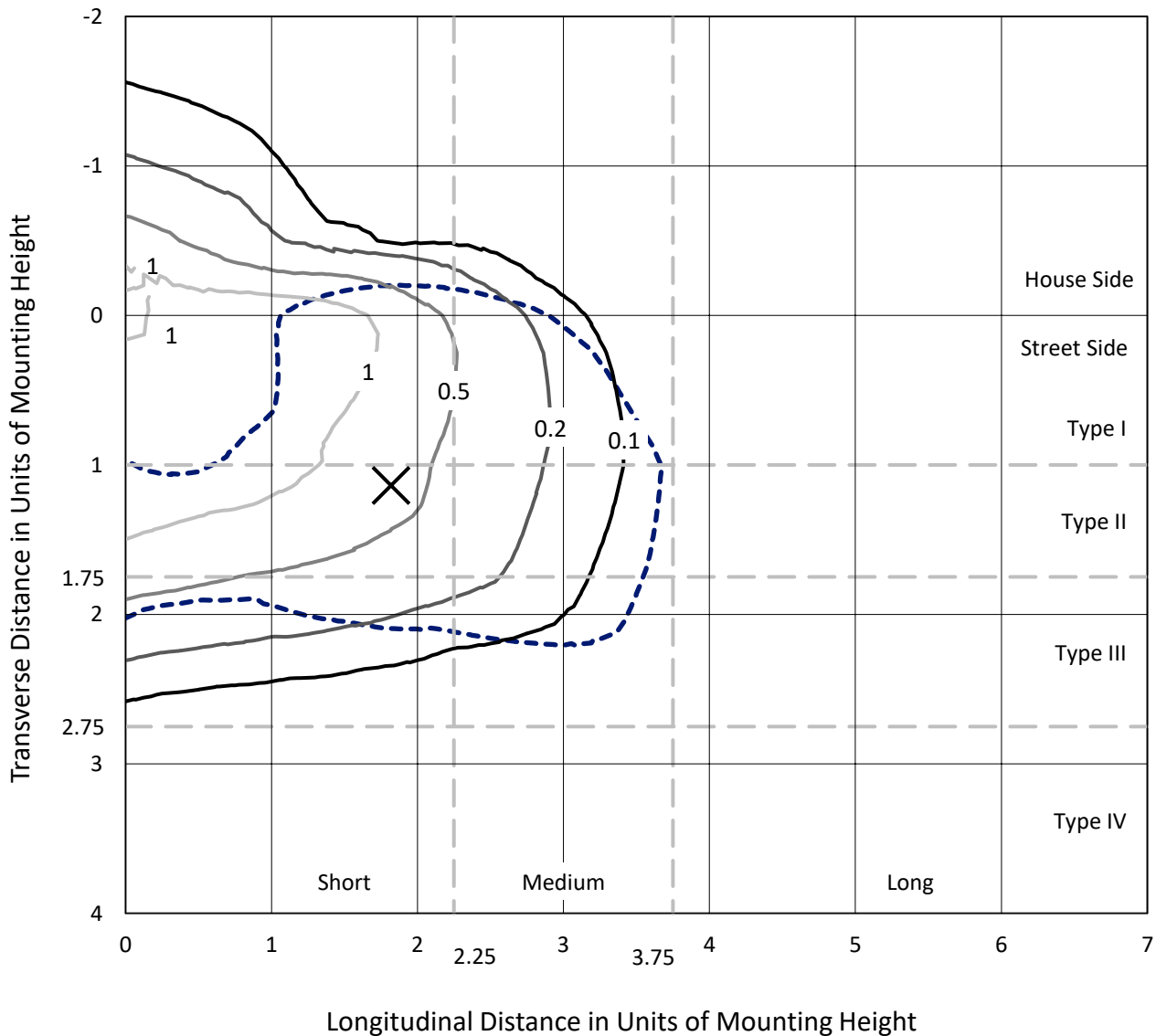


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Iso-Footcandle Lines of Horizontal Illumination

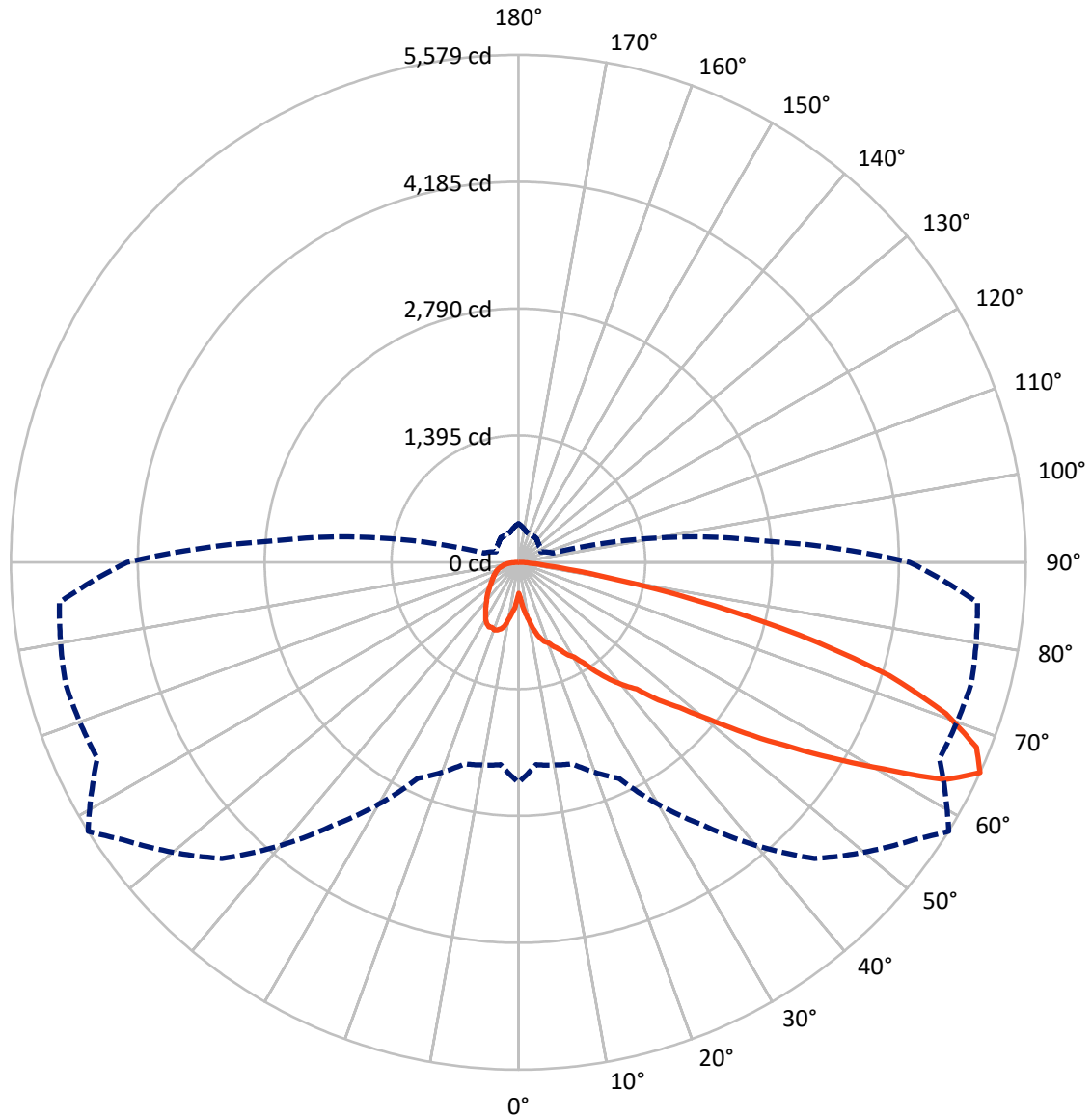
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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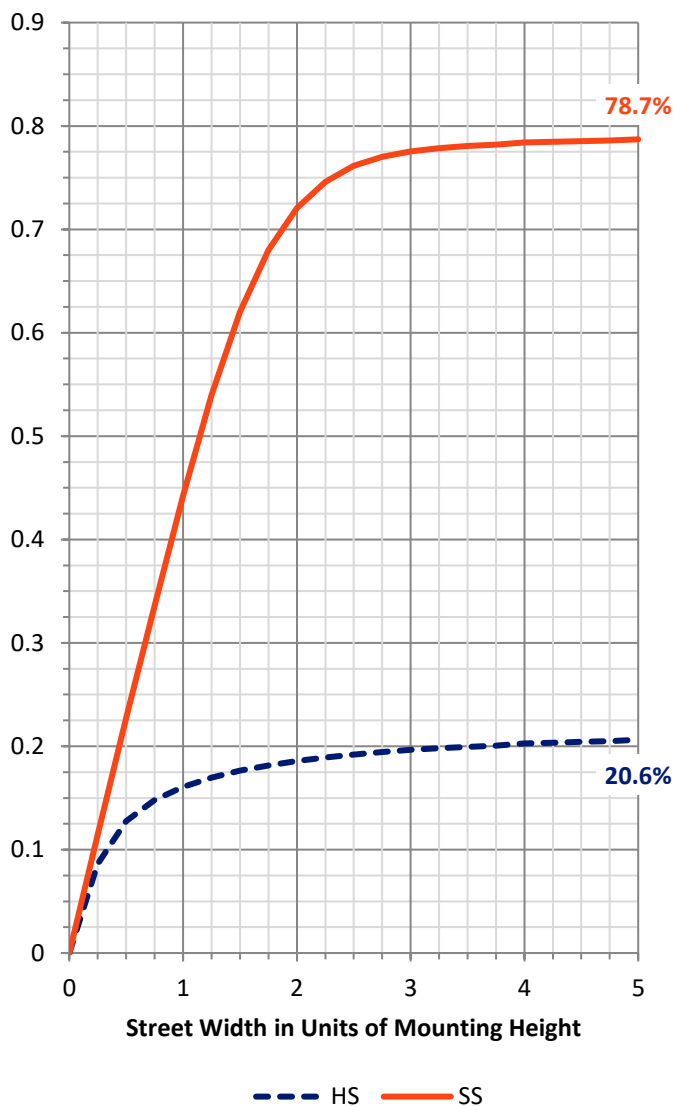
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1671.8 | 0.0 | 1671.8 |
| | % Fixture | 21.1 | 0.0 | 21.1 |
| Street Side | Lumens | 6265.2 | 0.0 | 6265.2 |
| | % Fixture | 78.9 | 0.0 | 78.9 |
| Total | Lumens | 7937.0 | 0.0 | 7937.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 51.9 | 0.7 |
| 10°-20° | 226.5 | 2.9 |
| 20°-30° | 434.6 | 5.5 |
| 30°-40° | 717.6 | 9.0 |
| 40°-50° | 1192.7 | 15.0 |
| 50°-60° | 1969.7 | 24.8 |
| 60°-70° | 2209.7 | 27.8 |
| 70°-80° | 1004.7 | 12.7 |
| 80°-90° | 129.6 | 1.6 |
| 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° | 7937.0 | 100.0 |
| 0°-180° | 7937.0 | 100.0 |

Coefficient of Utilization



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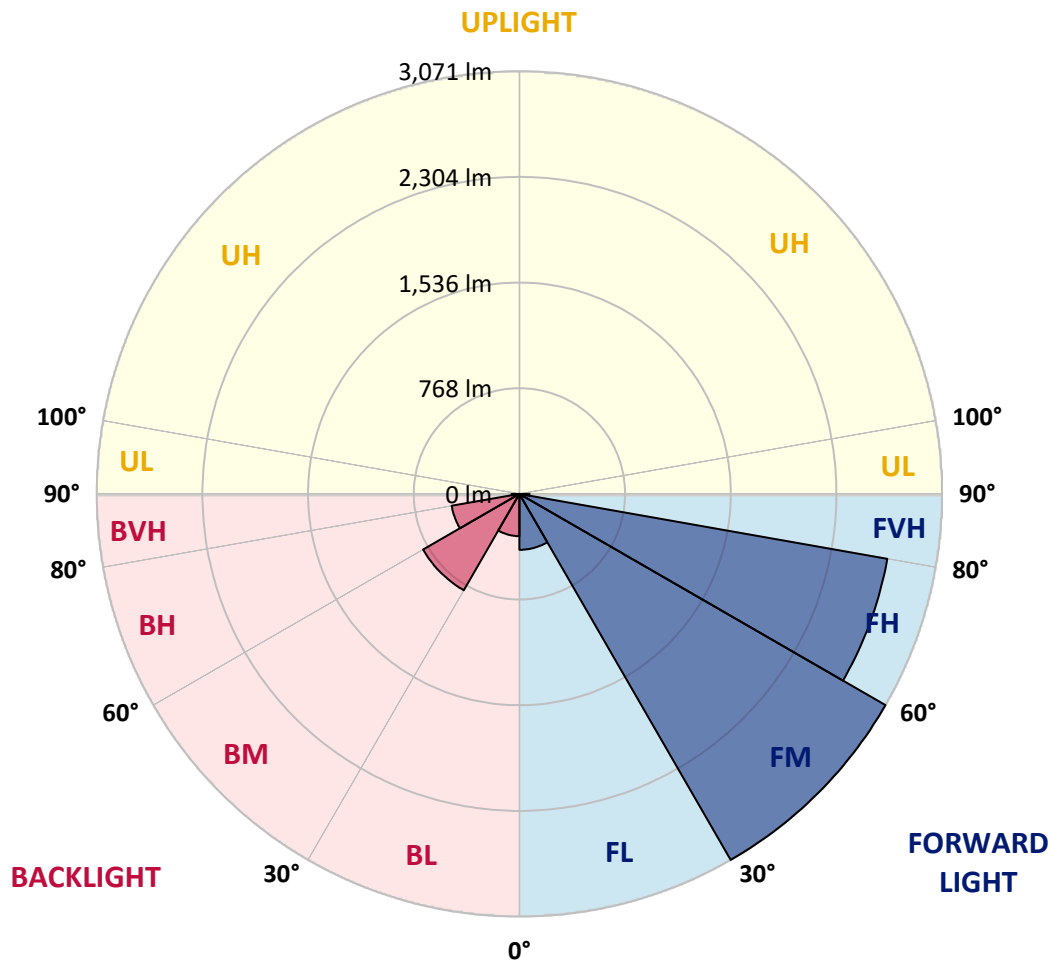
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 406.2 | 5.1 | | | |
| FM (30°-60°) | 3071.5 | 38.7 | | | |
| FH (60°-80°) | 2714.6 | 34.2 | | | G2/5000 |
| FVH (80°-90°) | 73.0 | 0.9 | | | G1/100 |
| BL (0°-30°) | 306.9 | 3.9 | B1/500 | | |
| BM (30°-60°) | 808.5 | 10.2 | B1/1000 | | |
| BH (60°-80°) | 499.7 | 6.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 56.6 | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 340.8 | 340.8 | 340.8 | 340.8 | 340.8 | 340.8 | 340.8 | 340.8 | 340.8 | 340.8 | 340.8 |
| 2.5° | 406.9 | 394.7 | 374.2 | 379.1 | 391.0 | 397.6 | 393.7 | 388.4 | 381.4 | 380.1 | 410.5 |
| 5° | 526.9 | 503.4 | 493.8 | 489.8 | 475.3 | 466.7 | 481.6 | 479.6 | 487.5 | 502.1 | 531.8 |
| 7.5° | 614.5 | 597.9 | 582.1 | 580.4 | 552.3 | 542.4 | 562.2 | 572.8 | 587.0 | 587.4 | 627.7 |
| 10° | 661.4 | 647.2 | 646.9 | 632.0 | 629.7 | 648.5 | 648.8 | 656.8 | 658.4 | 675.3 | 667.3 |
| 12.5° | 712.3 | 711.3 | 729.5 | 729.2 | 750.3 | 781.4 | 765.8 | 765.8 | 770.5 | 750.0 | 775.1 |
| 15° | 833.6 | 844.2 | 810.1 | 815.8 | 815.8 | 846.2 | 845.2 | 851.1 | 865.3 | 860.0 | 848.8 |
| 17.5° | 959.9 | 966.5 | 928.8 | 893.8 | 896.4 | 889.8 | 913.6 | 915.9 | 902.4 | 963.8 | 950.3 |
| 20° | 1041.2 | 1067.0 | 987.6 | 943.7 | 952.3 | 959.9 | 960.9 | 946.6 | 939.7 | 1034.2 | 1015.7 |
| 22.5° | 1141.7 | 1119.8 | 1047.1 | 998.5 | 1011.4 | 1001.2 | 999.2 | 1010.1 | 1019.7 | 1055.4 | 1085.5 |
| 25° | 1208.8 | 1207.1 | 1119.8 | 1066.6 | 1052.4 | 1049.4 | 1069.6 | 1065.3 | 1088.1 | 1152.9 | 1134.1 |
| 27.5° | 1306.3 | 1336.7 | 1182.0 | 1195.2 | 1132.7 | 1067.0 | 1131.7 | 1151.2 | 1192.2 | 1181.7 | 1223.6 |
| 30° | 1495.3 | 1472.5 | 1310.9 | 1307.3 | 1236.5 | 1181.3 | 1226.3 | 1209.7 | 1283.5 | 1281.1 | 1312.2 |
| 32.5° | 1649.7 | 1665.6 | 1462.3 | 1424.3 | 1371.7 | 1305.3 | 1275.5 | 1321.5 | 1361.1 | 1426.2 | 1443.8 |
| 35° | 1813.0 | 1809.3 | 1617.3 | 1540.6 | 1453.7 | 1426.2 | 1462.9 | 1482.1 | 1566.4 | 1626.2 | 1584.6 |
| 37.5° | 2066.8 | 2038.1 | 1818.3 | 1673.2 | 1608.0 | 1598.1 | 1660.9 | 1633.2 | 1724.4 | 1738.6 | 1762.1 |
| 40° | 2302.8 | 2216.2 | 2002.0 | 1835.8 | 1732.3 | 1769.3 | 1771.3 | 1775.0 | 1823.9 | 1862.5 | 1978.6 |
| 42.5° | 2527.2 | 2466.4 | 2188.8 | 2063.8 | 1911.5 | 1875.4 | 1897.9 | 1905.5 | 2029.1 | 2108.1 | 2268.8 |
| 45° | 2834.0 | 2671.0 | 2457.2 | 2328.9 | 2158.4 | 2112.4 | 2096.6 | 2162.0 | 2281.3 | 2461.1 | 2599.0 |
| 47.5° | 3093.4 | 2946.4 | 2742.4 | 2573.5 | 2382.8 | 2514.0 | 2424.1 | 2387.4 | 2547.7 | 2770.5 | 2990.0 |
| 50° | 3308.6 | 3146.7 | 2946.7 | 2849.2 | 2818.8 | 2935.8 | 2702.4 | 2706.7 | 2853.5 | 3167.8 | 3419.4 |
| 52.5° | 3475.2 | 3302.3 | 3125.2 | 3075.6 | 3245.5 | 3312.9 | 3144.4 | 3118.9 | 3226.0 | 3597.5 | 3899.6 |
| 55° | 3630.9 | 3447.4 | 3310.6 | 3411.8 | 3698.0 | 3705.6 | 3693.7 | 3552.6 | 3681.5 | 4057.9 | 4396.7 |
| 57.5° | 3670.9 | 3473.2 | 3382.3 | 3527.4 | 3914.5 | 4215.6 | 4333.9 | 4057.0 | 4188.2 | 4476.7 | 4822.5 |
| 60° | 3465.0 | 3295.7 | 3259.4 | 3456.4 | 4031.5 | 4471.8 | 4780.8 | 4615.2 | 4566.0 | 4812.9 | 5120.6 |
| 62.5° | 3043.2 | 2846.9 | 2876.3 | 3150.0 | 3908.2 | 4573.2 | 5133.8 | 5263.1 | 4964.9 | 5080.3 | 5250.8 |
| 65° | 2422.1 | 2234.7 | 2294.2 | 2623.4 | 3521.2 | 4607.0 | 5314.3 | 5579.4 | 5109.0 | 5156.0 | 5066.4 |
| 67.5° | 1708.2 | 1538.0 | 1613.0 | 2038.7 | 2929.2 | 4175.3 | 5345.4 | 5432.0 | 4955.7 | 4940.1 | 4562.7 |
| 70° | 967.8 | 861.0 | 942.3 | 1297.3 | 2067.5 | 3326.1 | 5101.8 | 4987.7 | 4680.7 | 4460.5 | 3817.6 |
| 72.5° | 443.9 | 407.2 | 446.2 | 660.4 | 1190.2 | 2213.2 | 4165.0 | 4268.5 | 4033.2 | 3757.8 | 2904.4 |
| 75° | 236.0 | 223.1 | 239.6 | 329.9 | 556.9 | 1204.1 | 2959.3 | 3191.9 | 3066.7 | 2850.2 | 1894.6 |
| 77.5° | 175.5 | 165.6 | 173.5 | 213.9 | 297.5 | 471.0 | 1681.4 | 1974.9 | 2022.5 | 1823.2 | 1052.1 |
| 80° | 134.5 | 126.6 | 134.5 | 161.6 | 205.9 | 223.8 | 718.9 | 920.5 | 1048.4 | 847.2 | 418.1 |
| 82.5° | 99.8 | 94.5 | 106.8 | 121.3 | 144.8 | 139.8 | 255.2 | 317.6 | 409.5 | 280.0 | 163.0 |
| 85° | 79.3 | 72.7 | 77.3 | 82.3 | 92.5 | 76.7 | 116.7 | 130.6 | 138.2 | 115.7 | 60.2 |
| 87.5° | 31.1 | 28.8 | 56.2 | 44.3 | 37.7 | 23.1 | 35.0 | 39.7 | 40.7 | 39.0 | 17.5 |
| 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° | 340.8 | 340.8 | 340.8 | 340.8 | 340.8 | 340.8 | 340.8 | 340.8 | 340.8 | 340.8 | 340.8 |
| 2.5° | 413.8 | 410.5 | 391.0 | 397.3 | 407.5 | 409.5 | 413.8 | 401.9 | 396.0 | 417.8 | 418.8 |
| 5° | 534.5 | 516.6 | 507.4 | 508.4 | 501.7 | 491.5 | 507.0 | 517.3 | 521.2 | 537.4 | 543.4 |
| 7.5° | 628.0 | 606.5 | 591.0 | 573.1 | 548.0 | 531.8 | 558.9 | 578.8 | 589.3 | 623.1 | 636.3 |
| 10° | 669.7 | 652.5 | 649.2 | 626.7 | 626.0 | 625.7 | 624.4 | 617.4 | 640.2 | 636.9 | 646.2 |
| 12.5° | 755.6 | 752.0 | 720.6 | 711.6 | 712.6 | 711.6 | 683.9 | 682.5 | 682.9 | 713.3 | 702.4 |
| 15° | 835.6 | 836.2 | 807.5 | 775.1 | 746.0 | 737.1 | 726.2 | 721.2 | 728.5 | 745.7 | 735.1 |
| 17.5° | 934.4 | 937.7 | 855.4 | 804.2 | 765.8 | 764.9 | 738.7 | 708.0 | 752.3 | 762.9 | 751.3 |
| 20° | 998.2 | 984.3 | 883.2 | 797.2 | 786.3 | 756.6 | 724.2 | 681.9 | 720.2 | 746.0 | 753.3 |
| 22.5° | 1058.7 | 1034.6 | 909.0 | 809.5 | 757.2 | 721.9 | 690.5 | 663.0 | 675.3 | 704.0 | 699.4 |
| 25° | 1099.7 | 1093.1 | 944.7 | 838.9 | 756.3 | 677.6 | 635.3 | 617.8 | 624.0 | 668.7 | 664.4 |
| 27.5° | 1197.5 | 1126.1 | 938.4 | 846.5 | 724.5 | 617.1 | 595.9 | 577.1 | 570.8 | 619.1 | 632.3 |
| 30° | 1263.0 | 1233.5 | 980.4 | 834.6 | 684.5 | 567.5 | 536.5 | 532.5 | 534.5 | 589.3 | 593.0 |
| 32.5° | 1374.0 | 1297.7 | 1049.1 | 789.0 | 626.4 | 530.8 | 495.1 | 496.8 | 505.7 | 545.7 | 554.0 |
| 35° | 1489.7 | 1444.1 | 1058.4 | 756.3 | 579.1 | 491.8 | 477.3 | 465.7 | 470.7 | 505.7 | 507.4 |
| 37.5° | 1704.6 | 1546.9 | 1115.2 | 705.7 | 544.4 | 477.0 | 449.2 | 438.9 | 441.6 | 461.4 | 475.6 |
| 40° | 1893.6 | 1753.5 | 1088.8 | 656.8 | 501.4 | 457.1 | 422.4 | 414.8 | 406.9 | 426.4 | 435.3 |
| 42.5° | 2196.7 | 1900.9 | 1079.8 | 602.9 | 481.3 | 430.4 | 406.6 | 386.4 | 378.8 | 395.3 | 411.5 |
| 45° | 2499.8 | 2057.2 | 1031.3 | 548.4 | 452.8 | 428.4 | 383.4 | 364.2 | 366.2 | 381.1 | 397.6 |
| 47.5° | 2837.6 | 2267.1 | 949.0 | 495.5 | 421.8 | 418.8 | 360.3 | 352.0 | 358.0 | 374.5 | 391.0 |
| 50° | 3236.9 | 2489.9 | 880.9 | 447.9 | 399.6 | 390.0 | 357.3 | 347.4 | 353.0 | 372.5 | 388.7 |
| 52.5° | 3673.5 | 2734.2 | 831.3 | 403.9 | 374.5 | 367.2 | 361.3 | 351.7 | 358.3 | 375.2 | 392.0 |
| 55° | 4107.5 | 2957.3 | 797.6 | 373.8 | 353.0 | 357.6 | 369.5 | 362.6 | 365.9 | 378.5 | 395.3 |
| 57.5° | 4429.5 | 3074.9 | 729.8 | 341.8 | 335.5 | 352.0 | 370.5 | 359.0 | 360.9 | 378.5 | 396.6 |
| 60° | 4616.5 | 3097.4 | 618.4 | 315.7 | 321.6 | 340.8 | 360.3 | 345.4 | 344.1 | 372.8 | 395.6 |
| 62.5° | 4596.0 | 2966.9 | 490.5 | 291.9 | 305.7 | 323.9 | 344.7 | 330.5 | 334.2 | 373.5 | 397.6 |
| 65° | 4302.5 | 2700.1 | 390.0 | 271.7 | 286.6 | 305.4 | 331.9 | 326.2 | 343.8 | 399.9 | 426.1 |
| 67.5° | 3786.9 | 2310.4 | 313.3 | 252.9 | 268.7 | 292.9 | 340.8 | 355.7 | 363.3 | 427.0 | 453.8 |
| 70° | 3069.0 | 1795.1 | 261.1 | 236.3 | 254.5 | 298.8 | 366.6 | 363.6 | 357.3 | 414.2 | 435.3 |
| 72.5° | 2217.2 | 1230.6 | 229.7 | 220.1 | 237.0 | 281.0 | 367.2 | 351.4 | 343.4 | 378.1 | 393.3 |
| 75° | 1387.2 | 734.1 | 200.6 | 199.6 | 210.2 | 251.9 | 350.7 | 336.5 | 315.0 | 332.2 | 352.0 |
| 77.5° | 792.3 | 375.8 | 168.9 | 177.8 | 184.1 | 218.5 | 314.0 | 301.1 | 281.9 | 289.2 | 308.7 |
| 80° | 302.4 | 181.8 | 142.5 | 158.0 | 156.3 | 185.1 | 266.1 | 263.1 | 241.3 | 243.6 | 255.5 |
| 82.5° | 142.5 | 101.8 | 118.3 | 135.8 | 126.9 | 147.4 | 216.2 | 215.2 | 196.0 | 177.5 | 187.1 |
| 85° | 52.9 | 54.2 | 86.6 | 103.5 | 88.3 | 95.2 | 156.3 | 152.0 | 133.5 | 112.7 | 124.6 |
| 87.5° | 11.9 | 19.5 | 42.6 | 53.9 | 30.7 | 29.4 | 63.1 | 54.9 | 52.9 | 31.4 | 33.1 |
| 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)