

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: P367202

Luminaire Tested: **PMM-SA2A-750-U-SL4**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-20)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA2A-750-U-SL4
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7742 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

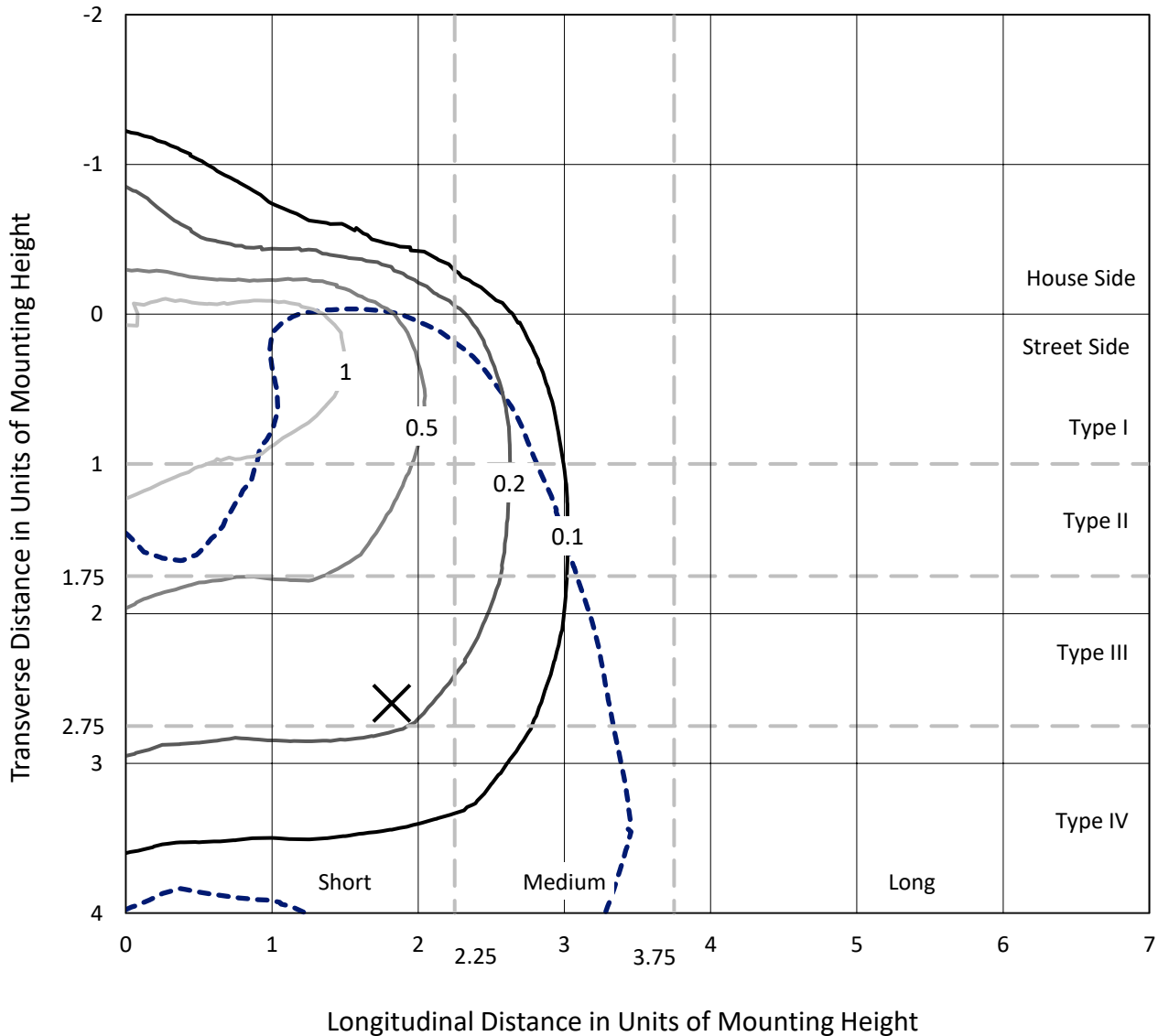
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

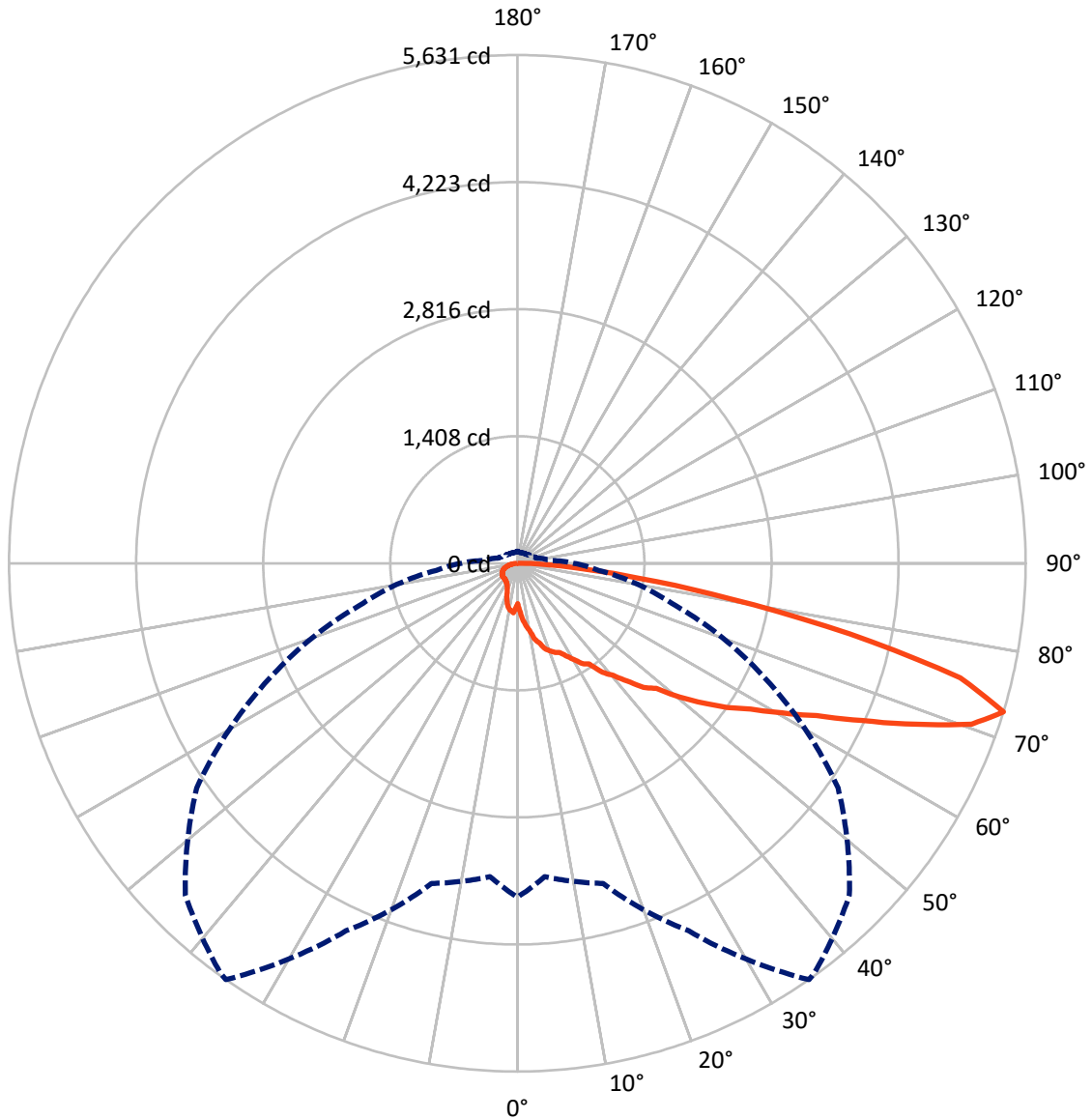
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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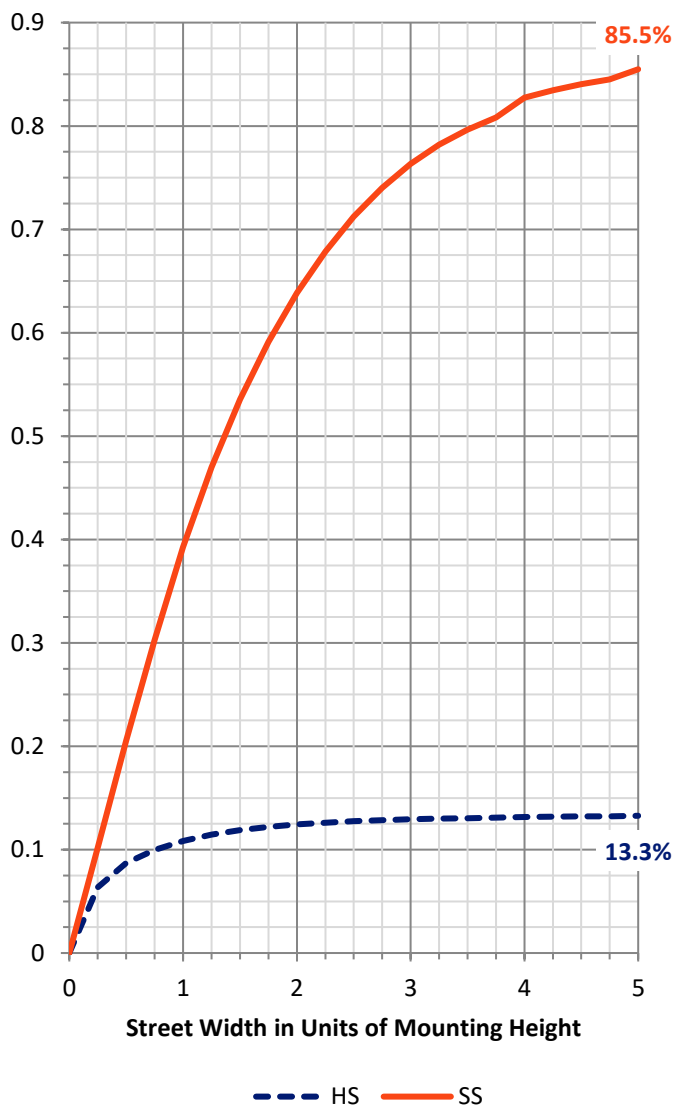
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1039.0 | 0.0 | 1039.0 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 6703.1 | 0.0 | 6703.1 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 7742.0 | 0.0 | 7742.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 59.5 | 0.8 |
| 10°-20° | 209.5 | 2.7 |
| 20°-30° | 363.9 | 4.7 |
| 30°-40° | 608.3 | 7.9 |
| 40°-50° | 1055.8 | 13.6 |
| 50°-60° | 1596.0 | 20.6 |
| 60°-70° | 2067.6 | 26.7 |
| 70°-80° | 1525.7 | 19.7 |
| 80°-90° | 255.7 | 3.3 |
| 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° | 7742.0 | 100.0 |
| 0°-180° | 7742.0 | 100.0 |

Coefficient of Utilization



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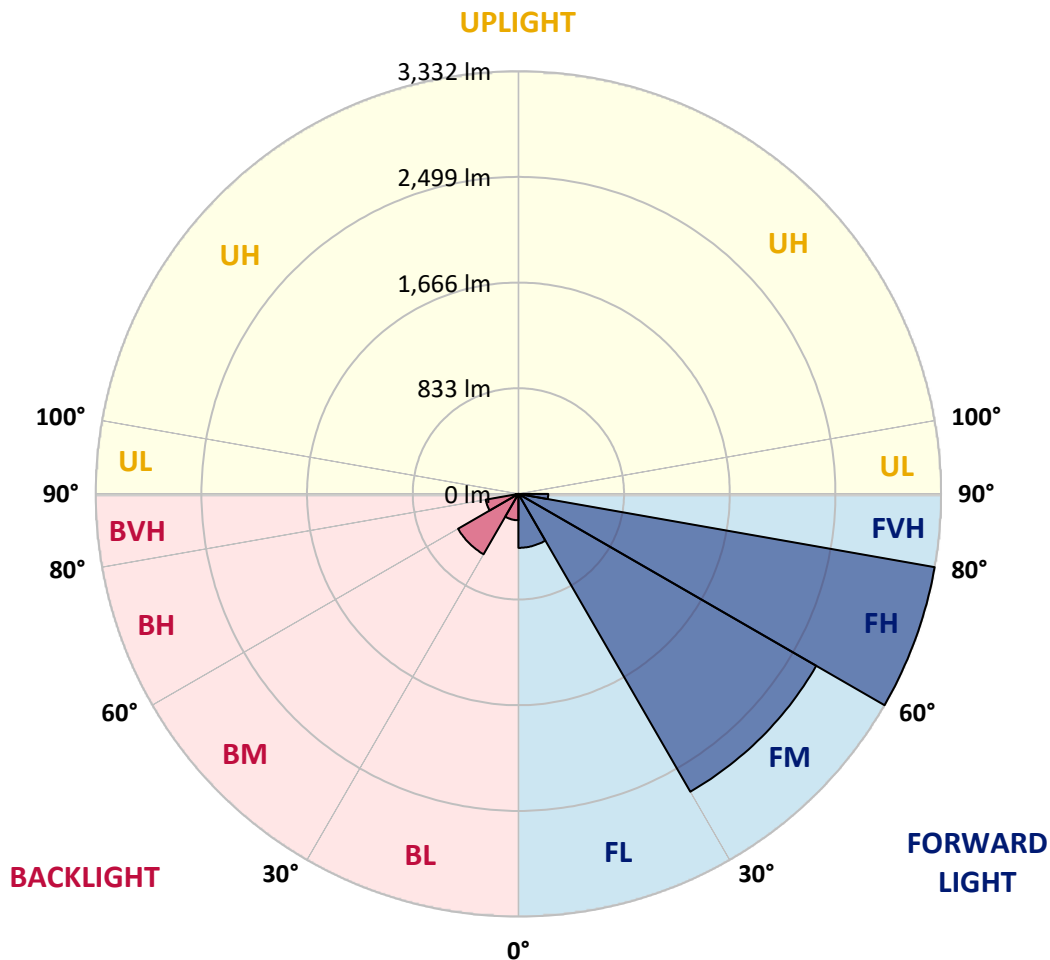
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 425.2 | 5.5 | | | |
| FM (30°-60°) | 2711.0 | 35.0 | | | |
| FH (60°-80°) | 3332.1 | 43.0 | | | G2/5000 |
| FVH (80°-90°) | 234.8 | 3.0 | | | G3/500 |
| BL (0°-30°) | 207.7 | 2.7 | B1/500 | | |
| BM (30°-60°) | 549.1 | 7.1 | B1/1000 | | |
| BH (60°-80°) | 261.2 | 3.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 20.9 | 0.3 | | | G1/100 |
| 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° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 447.4 | 447.4 | 447.4 | 447.4 | 447.4 | 447.4 | 447.4 | 447.4 | 447.4 | 447.4 | 447.4 |
| 2.5° | 558.1 | 531.3 | 508.2 | 507.2 | 528.7 | 537.0 | 533.7 | 526.4 | 517.8 | 499.6 | 539.3 |
| 5° | 699.2 | 660.9 | 653.6 | 645.0 | 625.5 | 630.8 | 599.1 | 623.2 | 630.8 | 648.3 | 674.8 |
| 7.5° | 782.5 | 760.0 | 742.5 | 735.2 | 701.5 | 697.6 | 674.1 | 708.5 | 723.0 | 720.7 | 760.0 |
| 10° | 815.2 | 794.7 | 796.0 | 772.2 | 761.3 | 766.0 | 768.6 | 769.3 | 778.2 | 785.5 | 765.6 |
| 12.5° | 832.0 | 840.0 | 869.1 | 852.9 | 866.7 | 872.4 | 900.1 | 871.7 | 872.7 | 835.3 | 855.8 |
| 15° | 917.0 | 936.8 | 919.9 | 919.3 | 915.0 | 924.2 | 948.0 | 928.9 | 943.7 | 931.8 | 905.4 |
| 17.5° | 1019.4 | 1025.4 | 993.0 | 979.7 | 996.9 | 994.0 | 988.0 | 991.0 | 954.0 | 1022.7 | 990.3 |
| 20° | 1050.8 | 1074.3 | 1031.6 | 979.7 | 1036.6 | 1044.2 | 1042.9 | 1030.0 | 966.5 | 1065.7 | 1034.3 |
| 22.5° | 1142.0 | 1110.3 | 1076.6 | 1043.5 | 1072.6 | 1076.9 | 1069.6 | 1038.9 | 1017.8 | 1055.4 | 1080.2 |
| 25° | 1183.3 | 1175.7 | 1132.7 | 1128.8 | 1096.7 | 1081.5 | 1094.1 | 1085.2 | 1064.3 | 1131.4 | 1104.0 |
| 27.5° | 1277.8 | 1268.9 | 1170.1 | 1210.7 | 1164.1 | 1160.2 | 1093.8 | 1123.5 | 1144.3 | 1139.4 | 1180.3 |
| 30° | 1384.9 | 1395.1 | 1250.7 | 1291.4 | 1237.5 | 1230.2 | 1163.5 | 1201.1 | 1215.4 | 1220.0 | 1271.2 |
| 32.5° | 1503.8 | 1531.9 | 1388.5 | 1355.1 | 1326.4 | 1331.3 | 1274.8 | 1206.1 | 1261.3 | 1369.3 | 1391.5 |
| 35° | 1632.7 | 1644.3 | 1493.9 | 1443.7 | 1368.7 | 1363.4 | 1364.4 | 1373.0 | 1428.8 | 1552.1 | 1569.3 |
| 37.5° | 1870.9 | 1817.4 | 1685.6 | 1558.3 | 1533.2 | 1484.0 | 1517.4 | 1543.8 | 1599.7 | 1788.7 | 1860.7 |
| 40° | 2017.7 | 1978.0 | 1777.1 | 1703.4 | 1634.0 | 1638.6 | 1701.1 | 1700.8 | 1832.6 | 2027.6 | 2137.6 |
| 42.5° | 2153.5 | 2110.2 | 1920.8 | 1846.8 | 1781.1 | 1797.3 | 1815.1 | 1846.5 | 2099.3 | 2413.5 | 2463.7 |
| 45° | 2262.8 | 2168.0 | 2031.9 | 2015.3 | 1961.2 | 1939.7 | 2015.3 | 2065.6 | 2418.1 | 2725.8 | 2754.9 |
| 47.5° | 2337.2 | 2259.2 | 2126.0 | 2111.5 | 2071.5 | 2124.1 | 2330.6 | 2363.0 | 2665.3 | 3039.4 | 3037.1 |
| 50° | 2450.2 | 2343.5 | 2223.2 | 2215.6 | 2328.3 | 2356.4 | 2608.1 | 2604.8 | 2905.9 | 3299.8 | 3245.2 |
| 52.5° | 2580.4 | 2445.9 | 2315.4 | 2397.0 | 2568.8 | 2582.7 | 2801.1 | 2890.0 | 3168.6 | 3550.9 | 3408.5 |
| 55° | 2730.1 | 2579.7 | 2453.5 | 2562.5 | 2818.3 | 2777.3 | 2998.4 | 3215.5 | 3497.4 | 3815.6 | 3526.4 |
| 57.5° | 2915.5 | 2733.1 | 2631.0 | 2796.8 | 3046.0 | 3082.3 | 3280.9 | 3554.2 | 3762.0 | 3980.1 | 3612.4 |
| 60° | 3111.1 | 2897.0 | 2803.4 | 2961.4 | 3364.9 | 3406.5 | 3600.8 | 3835.7 | 4058.8 | 4135.1 | 3596.2 |
| 62.5° | 3297.8 | 3066.1 | 2981.5 | 3176.5 | 3718.4 | 3821.5 | 3964.9 | 4114.6 | 4305.6 | 4172.8 | 3400.2 |
| 65° | 3505.6 | 3273.7 | 3220.5 | 3512.9 | 4197.9 | 4300.3 | 4487.7 | 4442.7 | 4390.2 | 4039.3 | 3076.1 |
| 67.5° | 3725.7 | 3490.1 | 3500.0 | 3903.1 | 4763.3 | 4780.8 | 5068.6 | 4769.9 | 4290.7 | 3685.7 | 2531.8 |
| 70° | 3844.0 | 3602.8 | 3704.9 | 4319.2 | 5338.6 | 5313.4 | 5372.3 | 4857.8 | 3885.3 | 2913.5 | 1745.0 |
| 72.5° | 3700.6 | 3485.5 | 3672.5 | 4494.3 | 5631.3 | 5604.2 | 5201.8 | 4336.0 | 3037.7 | 1811.8 | 904.7 |
| 75° | 3133.2 | 2925.7 | 3211.9 | 4006.2 | 5069.6 | 5094.7 | 4426.9 | 3224.4 | 1739.1 | 728.6 | 375.7 |
| 77.5° | 2129.0 | 2022.0 | 2267.1 | 2986.2 | 3765.7 | 3852.6 | 3284.6 | 1885.5 | 730.3 | 301.7 | 227.3 |
| 80° | 1125.1 | 1074.3 | 1255.3 | 1720.3 | 2384.4 | 2449.2 | 1931.4 | 939.1 | 374.1 | 195.3 | 162.2 |
| 82.5° | 611.3 | 589.8 | 687.0 | 884.6 | 1354.8 | 1411.3 | 1001.6 | 623.9 | 252.1 | 122.3 | 99.1 |
| 85° | 410.7 | 402.5 | 466.9 | 475.2 | 640.7 | 659.2 | 524.7 | 480.5 | 151.3 | 59.8 | 65.4 |
| 87.5° | 205.5 | 197.3 | 245.8 | 217.1 | 244.5 | 244.9 | 240.6 | 306.6 | 38.3 | 19.8 | 11.9 |
| 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° | 447.4 | 447.4 | 447.4 | 447.4 | 447.4 | 447.4 | 447.4 | 447.4 | 447.4 | 447.4 | 447.4 |
| 2.5° | 539.9 | 528.4 | 488.4 | 488.1 | 494.0 | 490.0 | 493.0 | 476.8 | 469.9 | 501.6 | 500.0 |
| 5° | 671.1 | 636.4 | 603.0 | 591.5 | 577.9 | 548.5 | 550.2 | 550.5 | 545.6 | 564.4 | 565.7 |
| 7.5° | 748.1 | 706.5 | 675.7 | 614.3 | 566.0 | 528.4 | 533.3 | 538.9 | 533.3 | 558.4 | 567.7 |
| 10° | 759.3 | 726.3 | 689.6 | 621.2 | 589.2 | 555.1 | 520.8 | 490.4 | 486.7 | 475.2 | 478.8 |
| 12.5° | 826.1 | 798.7 | 722.0 | 647.0 | 609.7 | 557.4 | 494.7 | 460.0 | 430.9 | 435.8 | 426.6 |
| 15° | 880.9 | 861.5 | 769.6 | 671.5 | 582.2 | 517.5 | 450.7 | 403.1 | 377.0 | 374.1 | 364.8 |
| 17.5° | 955.3 | 927.5 | 773.9 | 654.6 | 546.9 | 469.2 | 393.9 | 340.0 | 328.8 | 324.2 | 319.5 |
| 20° | 991.0 | 941.1 | 758.4 | 601.7 | 505.6 | 411.7 | 337.7 | 291.4 | 288.1 | 296.4 | 294.8 |
| 22.5° | 1022.0 | 952.3 | 744.5 | 569.7 | 441.1 | 353.6 | 299.4 | 269.0 | 265.3 | 275.9 | 277.9 |
| 25° | 1040.2 | 984.4 | 729.3 | 537.0 | 401.2 | 310.3 | 270.6 | 253.4 | 254.1 | 268.0 | 266.3 |
| 27.5° | 1122.2 | 995.6 | 690.9 | 498.3 | 355.2 | 278.2 | 256.8 | 247.8 | 244.2 | 263.4 | 265.0 |
| 30° | 1173.7 | 1069.0 | 682.4 | 457.3 | 321.2 | 254.8 | 244.2 | 240.6 | 239.9 | 263.0 | 264.7 |
| 32.5° | 1269.5 | 1093.4 | 686.3 | 412.7 | 290.5 | 247.5 | 234.9 | 234.6 | 241.2 | 263.4 | 266.0 |
| 35° | 1402.4 | 1196.5 | 667.2 | 387.3 | 273.6 | 236.3 | 227.7 | 230.3 | 241.6 | 265.7 | 269.3 |
| 37.5° | 1661.4 | 1293.7 | 673.1 | 363.5 | 268.0 | 232.6 | 225.7 | 227.3 | 245.5 | 271.6 | 281.5 |
| 40° | 1866.6 | 1469.8 | 663.9 | 351.6 | 260.4 | 232.0 | 221.4 | 228.0 | 245.2 | 274.9 | 283.8 |
| 42.5° | 2164.0 | 1610.2 | 664.8 | 339.7 | 260.1 | 229.3 | 220.7 | 228.7 | 244.5 | 272.0 | 284.2 |
| 45° | 2419.1 | 1736.1 | 679.1 | 332.8 | 256.8 | 233.6 | 219.7 | 229.7 | 240.2 | 261.4 | 274.9 |
| 47.5° | 2628.3 | 1876.6 | 693.6 | 326.1 | 255.4 | 237.6 | 218.8 | 222.7 | 233.0 | 249.5 | 261.7 |
| 50° | 2798.8 | 1975.4 | 712.1 | 324.8 | 255.4 | 235.6 | 216.1 | 215.8 | 224.4 | 237.6 | 249.2 |
| 52.5° | 2931.6 | 2045.1 | 724.7 | 326.5 | 255.4 | 228.0 | 212.8 | 210.2 | 215.4 | 225.0 | 236.6 |
| 55° | 3027.8 | 2066.6 | 714.4 | 330.8 | 255.1 | 221.1 | 206.9 | 204.5 | 207.2 | 213.8 | 224.7 |
| 57.5° | 3066.5 | 2010.1 | 653.3 | 323.2 | 255.1 | 216.1 | 199.6 | 196.9 | 199.6 | 204.5 | 215.4 |
| 60° | 2969.6 | 1828.3 | 565.0 | 303.7 | 250.1 | 209.5 | 191.3 | 189.7 | 193.6 | 197.9 | 208.5 |
| 62.5° | 2726.8 | 1586.8 | 470.9 | 280.5 | 239.9 | 203.9 | 183.4 | 183.7 | 190.0 | 195.9 | 206.5 |
| 65° | 2349.4 | 1294.7 | 392.6 | 257.1 | 227.0 | 195.0 | 175.1 | 177.4 | 186.4 | 194.3 | 204.9 |
| 67.5° | 1848.8 | 959.3 | 330.4 | 234.3 | 208.8 | 180.4 | 165.9 | 166.5 | 172.8 | 180.4 | 190.7 |
| 70° | 1235.8 | 610.3 | 271.6 | 207.5 | 185.0 | 161.6 | 151.7 | 149.4 | 147.7 | 154.3 | 163.2 |
| 72.5° | 626.8 | 360.5 | 223.0 | 177.4 | 159.3 | 141.1 | 133.5 | 127.5 | 122.9 | 126.9 | 133.8 |
| 75° | 328.5 | 252.1 | 180.1 | 147.4 | 131.5 | 119.9 | 114.3 | 106.4 | 103.1 | 105.4 | 110.4 |
| 77.5° | 232.3 | 197.3 | 145.7 | 116.6 | 107.1 | 95.2 | 96.2 | 87.9 | 85.3 | 86.6 | 91.9 |
| 80° | 178.4 | 156.3 | 112.0 | 88.2 | 82.6 | 71.0 | 74.3 | 69.4 | 66.1 | 65.4 | 69.4 |
| 82.5° | 121.6 | 117.6 | 79.6 | 61.8 | 57.8 | 49.6 | 54.2 | 52.2 | 47.9 | 45.3 | 47.3 |
| 85° | 81.9 | 78.0 | 48.6 | 35.7 | 34.0 | 25.8 | 33.0 | 31.7 | 28.1 | 24.1 | 24.5 |
| 87.5° | 14.2 | 26.1 | 13.9 | 8.9 | 8.3 | 3.0 | 7.6 | 7.3 | 6.6 | 3.3 | 2.6 |
| 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)