

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: P366618

Luminaire Tested: **PMM-SA1A-727-U-T4FT**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366618
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-SA1A-727-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: 3388 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

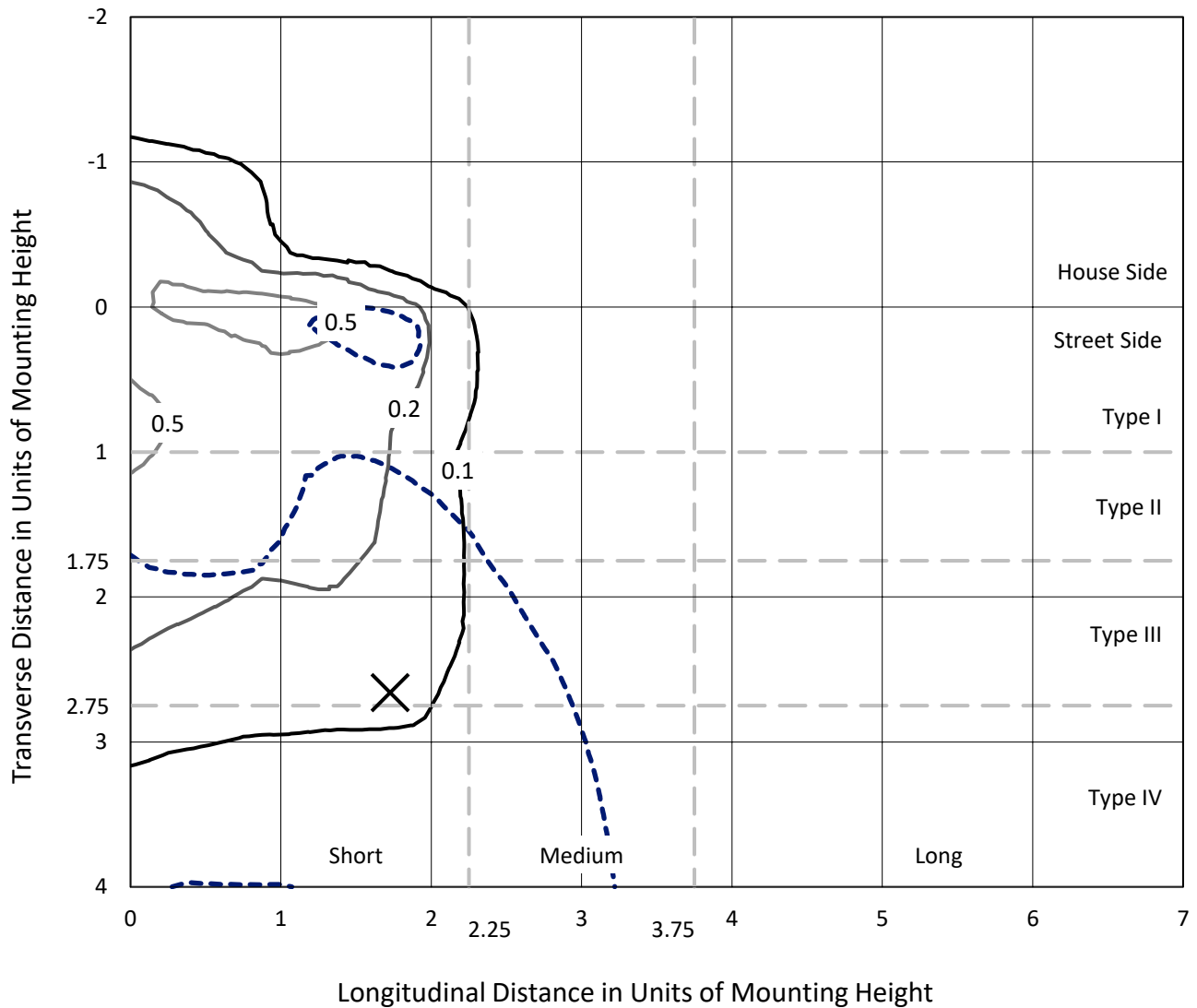
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

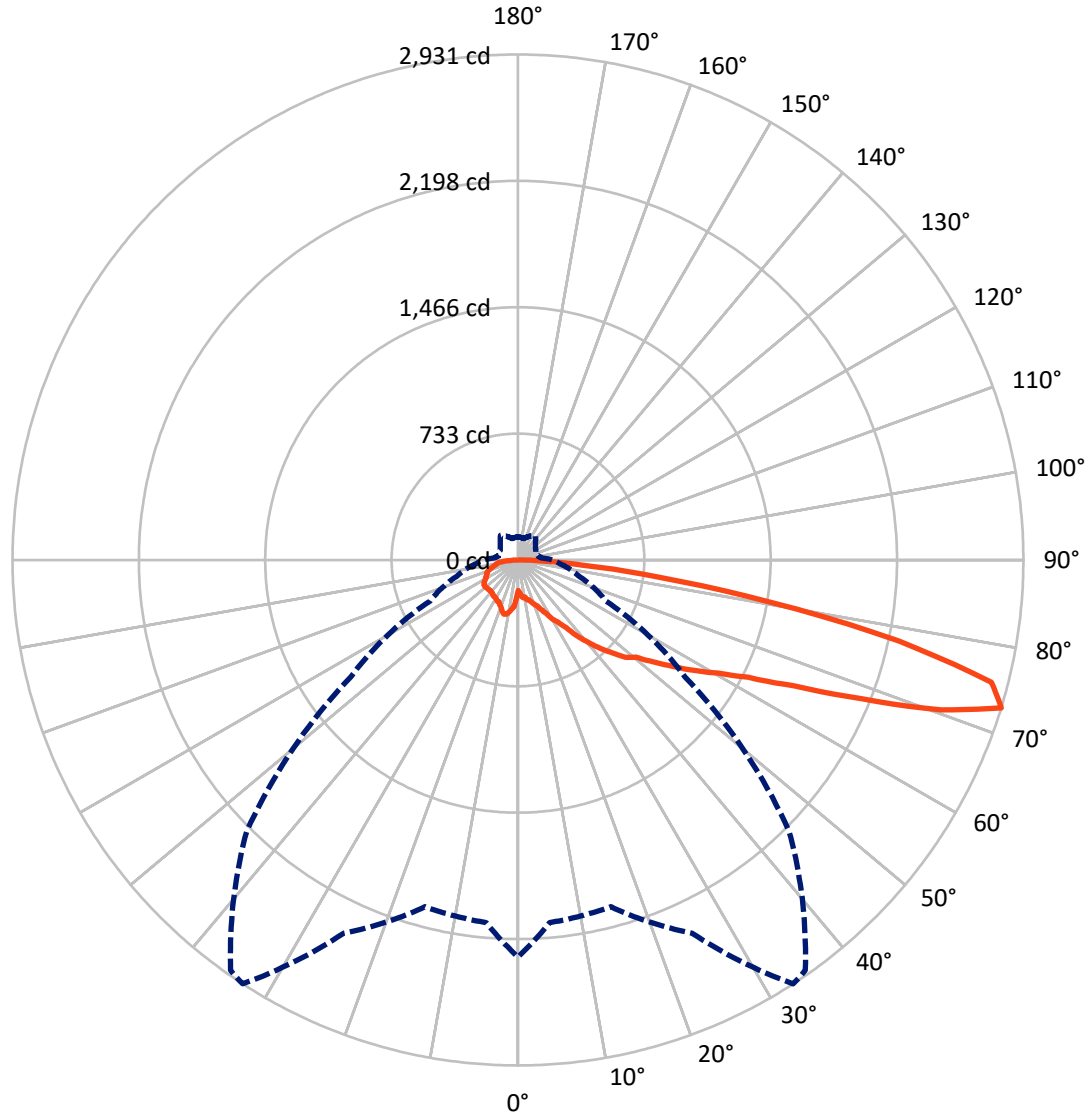
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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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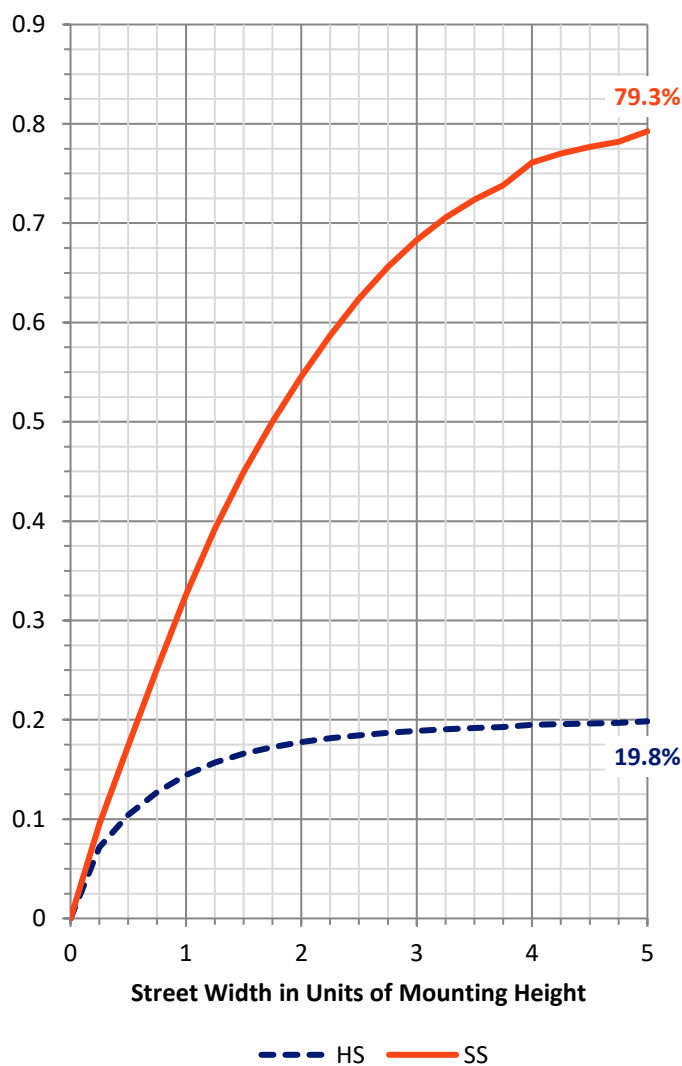
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 685.4 | 0.0 | 685.4 |
| | % Fixture | 20.2 | 0.0 | 20.2 |
| Street Side | Lumens | 2702.6 | 0.0 | 2702.6 |
| | % Fixture | 79.8 | 0.0 | 79.8 |
| Total | Lumens | 3388.0 | 0.0 | 3388.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 24.4 | 0.7 |
| 10°-20° | 90.3 | 2.7 |
| 20°-30° | 164.6 | 4.9 |
| 30°-40° | 278.5 | 8.2 |
| 40°-50° | 463.3 | 13.7 |
| 50°-60° | 679.9 | 20.1 |
| 60°-70° | 869.8 | 25.7 |
| 70°-80° | 707.6 | 20.9 |
| 80°-90° | 109.6 | 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° | 3388.0 | 100.0 |
| 0°-180° | 3388.0 | 100.0 |

Coefficient of Utilization

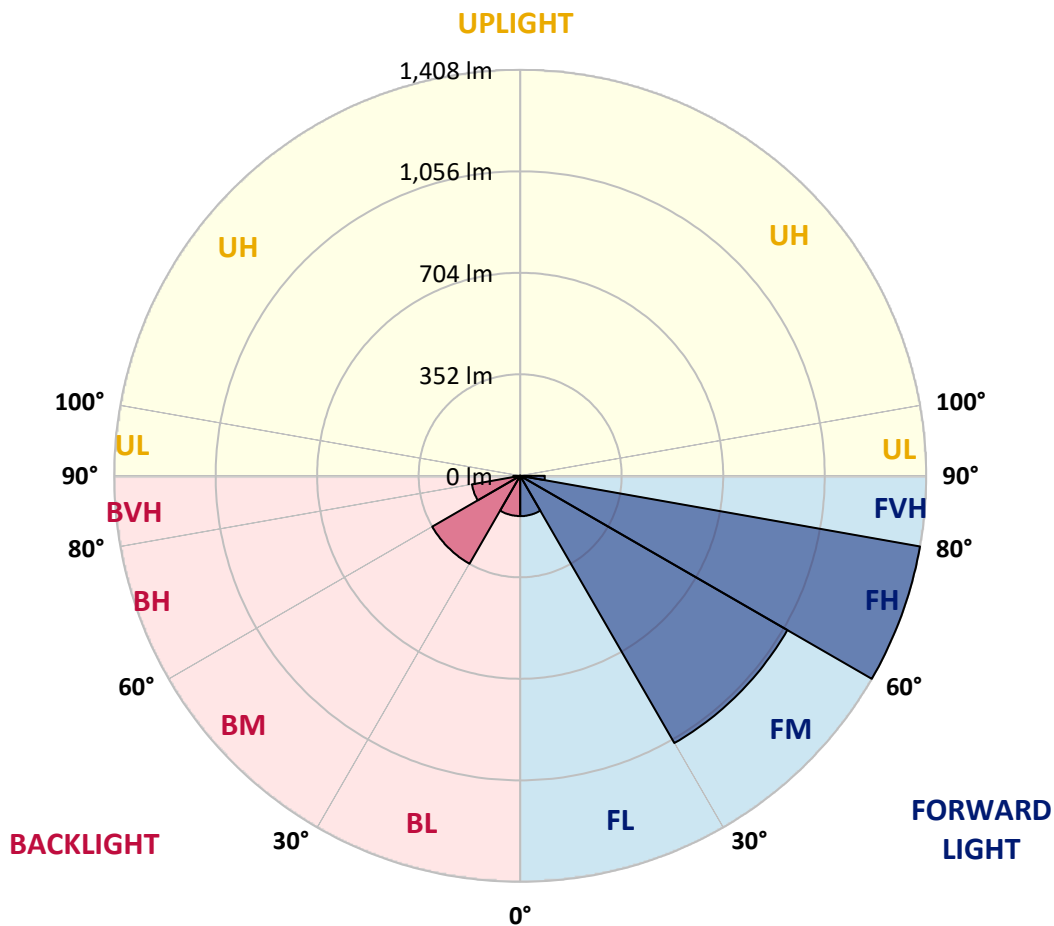


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 139.8 | 4.1 | | | |
| FM (30°-60°) | 1069.7 | 31.6 | | | |
| FH (60°-80°) | 1407.6 | 41.5 | | | G1/1800 |
| FVH (80°-90°) | 85.5 | 2.5 | | | G1/100 |
| BL (0°-30°) | 139.5 | 4.1 | B1/500 | | |
| BM (30°-60°) | 352.0 | 10.4 | B1/1000 | | |
| BH (60°-80°) | 169.8 | 5.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 24.1 | 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-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 177.7 | 177.7 | 177.7 | 177.7 | 177.7 | 177.7 | 177.7 | 177.7 | 177.7 | 177.7 | 177.7 |
| 2.5° | 201.4 | 195.1 | 184.7 | 184.4 | 190.2 | 191.4 | 195.2 | 195.5 | 196.9 | 194.7 | 210.7 |
| 5° | 222.2 | 215.5 | 211.4 | 212.8 | 210.1 | 213.4 | 213.4 | 222.6 | 235.0 | 249.3 | 269.7 |
| 7.5° | 227.1 | 222.2 | 217.6 | 221.1 | 221.6 | 218.6 | 221.5 | 243.3 | 265.6 | 280.0 | 312.6 |
| 10° | 217.3 | 212.4 | 215.9 | 217.0 | 216.9 | 223.9 | 239.2 | 256.6 | 281.5 | 307.9 | 325.5 |
| 12.5° | 215.5 | 219.0 | 220.7 | 222.6 | 236.0 | 238.1 | 261.3 | 279.3 | 304.3 | 327.5 | 373.2 |
| 15° | 242.6 | 247.2 | 236.8 | 236.1 | 240.5 | 242.4 | 266.5 | 284.6 | 321.2 | 360.1 | 401.1 |
| 17.5° | 281.2 | 282.9 | 264.2 | 254.7 | 257.9 | 259.5 | 270.0 | 292.8 | 315.3 | 387.2 | 438.4 |
| 20° | 318.6 | 319.7 | 284.6 | 263.2 | 274.6 | 276.3 | 286.2 | 299.2 | 316.9 | 402.4 | 463.5 |
| 22.5° | 357.8 | 350.7 | 312.2 | 285.2 | 291.8 | 292.2 | 298.0 | 305.1 | 330.3 | 400.0 | 494.2 |
| 25° | 400.7 | 396.2 | 347.7 | 321.9 | 321.6 | 315.8 | 316.1 | 326.4 | 344.5 | 425.6 | 514.3 |
| 27.5° | 457.6 | 458.2 | 387.8 | 373.9 | 352.1 | 348.3 | 329.3 | 348.4 | 369.1 | 425.9 | 557.7 |
| 30° | 531.4 | 517.8 | 443.6 | 421.1 | 399.6 | 391.6 | 365.8 | 382.2 | 391.1 | 450.2 | 604.9 |
| 32.5° | 591.4 | 587.5 | 501.8 | 467.7 | 432.6 | 441.9 | 413.5 | 399.2 | 415.3 | 492.1 | 676.5 |
| 35° | 648.9 | 636.0 | 563.3 | 519.0 | 482.1 | 476.5 | 458.0 | 460.4 | 470.3 | 545.0 | 769.9 |
| 37.5° | 734.6 | 727.6 | 650.5 | 579.6 | 562.3 | 539.4 | 527.8 | 535.2 | 527.5 | 612.9 | 910.1 |
| 40° | 830.5 | 789.7 | 723.3 | 660.2 | 627.8 | 611.7 | 615.7 | 608.7 | 602.8 | 689.1 | 1035.7 |
| 42.5° | 922.3 | 885.2 | 771.6 | 743.2 | 701.1 | 707.8 | 685.5 | 690.4 | 707.1 | 797.2 | 1151.9 |
| 45° | 1022.2 | 942.0 | 822.9 | 797.9 | 767.7 | 776.3 | 794.1 | 788.8 | 816.2 | 924.7 | 1261.4 |
| 47.5° | 1072.1 | 995.8 | 885.9 | 845.1 | 844.7 | 826.8 | 935.5 | 947.3 | 904.4 | 1019.1 | 1372.6 |
| 50° | 1120.2 | 1045.1 | 932.7 | 905.1 | 885.2 | 923.4 | 1071.1 | 1044.0 | 984.3 | 1127.5 | 1494.9 |
| 52.5° | 1187.1 | 1101.5 | 986.4 | 957.0 | 981.7 | 1017.2 | 1179.3 | 1174.0 | 1062.5 | 1238.9 | 1601.1 |
| 55° | 1238.1 | 1151.7 | 1067.2 | 1039.9 | 1087.1 | 1121.9 | 1289.5 | 1257.3 | 1129.6 | 1320.7 | 1668.5 |
| 57.5° | 1327.5 | 1238.8 | 1186.5 | 1125.9 | 1210.8 | 1210.3 | 1395.8 | 1370.9 | 1201.3 | 1387.9 | 1695.6 |
| 60° | 1469.6 | 1365.4 | 1310.8 | 1240.9 | 1331.8 | 1364.3 | 1517.2 | 1445.5 | 1252.0 | 1430.4 | 1646.7 |
| 62.5° | 1669.0 | 1545.3 | 1456.6 | 1387.5 | 1498.4 | 1557.1 | 1667.2 | 1499.9 | 1255.2 | 1418.3 | 1518.1 |
| 65° | 1915.7 | 1765.3 | 1649.1 | 1576.0 | 1759.0 | 1842.9 | 1848.5 | 1533.5 | 1225.4 | 1293.3 | 1247.7 |
| 67.5° | 2156.3 | 1987.2 | 1865.9 | 1879.8 | 2147.0 | 2186.8 | 2045.0 | 1561.6 | 1065.4 | 1038.5 | 866.3 |
| 70° | 2314.7 | 2131.4 | 2050.6 | 2198.2 | 2604.1 | 2563.3 | 2204.2 | 1487.6 | 838.9 | 673.2 | 487.8 |
| 72.5° | 2302.7 | 2110.9 | 2081.8 | 2387.4 | 2931.0 | 2905.6 | 2223.6 | 1183.0 | 561.9 | 368.1 | 243.3 |
| 75° | 1876.0 | 1726.9 | 1793.0 | 2260.0 | 2836.8 | 2835.6 | 1930.6 | 732.3 | 288.3 | 189.0 | 153.8 |
| 77.5° | 1037.2 | 979.3 | 1173.4 | 1711.2 | 2258.8 | 2270.3 | 1304.4 | 332.1 | 155.4 | 133.9 | 115.8 |
| 80° | 363.3 | 358.0 | 508.5 | 923.4 | 1485.9 | 1488.7 | 606.6 | 151.9 | 113.0 | 101.3 | 85.0 |
| 82.5° | 132.8 | 131.7 | 210.8 | 429.0 | 818.1 | 816.3 | 230.1 | 94.6 | 83.8 | 71.7 | 56.1 |
| 85° | 53.0 | 51.9 | 96.4 | 190.4 | 375.8 | 369.8 | 89.4 | 53.7 | 54.8 | 42.7 | 27.5 |
| 87.5° | 14.6 | 15.2 | 32.7 | 59.6 | 115.1 | 106.7 | 22.5 | 18.1 | 22.2 | 17.4 | 8.7 |
| 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° | 177.7 | 177.7 | 177.7 | 177.7 | 177.7 | 177.7 | 177.7 | 177.7 | 177.7 | 177.7 | 177.7 |
| 2.5° | 213.5 | 214.9 | 201.0 | 205.9 | 212.2 | 215.6 | 217.3 | 210.1 | 212.5 | 222.6 | 222.2 |
| 5° | 273.9 | 268.3 | 263.0 | 268.4 | 264.8 | 259.6 | 268.0 | 267.6 | 273.1 | 278.6 | 279.8 |
| 7.5° | 319.0 | 311.7 | 309.2 | 296.8 | 284.5 | 272.0 | 282.8 | 289.5 | 290.9 | 304.6 | 310.3 |
| 10° | 335.3 | 332.5 | 333.5 | 317.2 | 315.7 | 316.9 | 307.0 | 296.1 | 302.7 | 297.1 | 301.3 |
| 12.5° | 373.0 | 380.0 | 362.6 | 351.5 | 350.5 | 342.8 | 322.8 | 315.8 | 308.4 | 316.1 | 312.2 |
| 15° | 403.2 | 416.3 | 397.6 | 378.1 | 356.0 | 344.1 | 327.1 | 316.4 | 311.5 | 313.1 | 308.4 |
| 17.5° | 447.5 | 459.7 | 412.2 | 382.3 | 359.5 | 342.0 | 316.0 | 293.2 | 305.3 | 306.3 | 300.8 |
| 20° | 476.9 | 477.7 | 417.1 | 371.9 | 351.4 | 320.9 | 295.6 | 275.6 | 289.5 | 303.7 | 309.9 |
| 22.5° | 505.6 | 499.2 | 423.2 | 363.6 | 321.7 | 292.2 | 279.8 | 278.6 | 289.0 | 300.9 | 302.3 |
| 25° | 527.1 | 528.0 | 426.7 | 360.5 | 304.3 | 264.1 | 264.1 | 273.2 | 282.4 | 310.8 | 309.3 |
| 27.5° | 579.2 | 540.8 | 413.1 | 346.3 | 280.1 | 247.6 | 264.2 | 276.5 | 280.8 | 311.6 | 314.7 |
| 30° | 617.1 | 592.1 | 415.9 | 322.0 | 255.7 | 239.9 | 253.5 | 268.9 | 281.0 | 316.5 | 315.4 |
| 32.5° | 680.8 | 613.5 | 422.5 | 287.8 | 237.4 | 237.0 | 249.1 | 265.2 | 279.7 | 311.2 | 312.9 |
| 35° | 751.2 | 676.5 | 404.1 | 261.8 | 233.0 | 235.3 | 250.9 | 257.3 | 274.4 | 309.1 | 310.6 |
| 37.5° | 881.5 | 709.3 | 392.4 | 241.7 | 230.2 | 236.7 | 242.6 | 252.6 | 269.7 | 298.5 | 308.6 |
| 40° | 958.0 | 777.1 | 349.1 | 230.1 | 224.3 | 235.6 | 238.5 | 246.9 | 256.2 | 285.9 | 292.3 |
| 42.5° | 1058.6 | 798.5 | 312.2 | 217.1 | 221.4 | 230.9 | 239.8 | 241.9 | 248.1 | 265.9 | 277.7 |
| 45° | 1142.5 | 814.5 | 272.9 | 206.7 | 211.4 | 241.2 | 241.7 | 240.8 | 239.6 | 246.2 | 255.9 |
| 47.5° | 1229.4 | 857.5 | 236.8 | 195.2 | 207.6 | 249.6 | 242.7 | 233.7 | 229.1 | 229.9 | 238.9 |
| 50° | 1325.2 | 888.7 | 211.2 | 185.8 | 208.4 | 249.6 | 247.5 | 226.6 | 217.3 | 214.9 | 224.3 |
| 52.5° | 1409.6 | 892.3 | 191.8 | 178.2 | 204.9 | 241.0 | 250.7 | 222.1 | 206.5 | 200.7 | 209.6 |
| 55° | 1455.5 | 846.1 | 177.8 | 171.3 | 195.9 | 233.3 | 249.1 | 219.5 | 193.4 | 189.0 | 196.9 |
| 57.5° | 1454.5 | 769.4 | 165.8 | 161.8 | 185.7 | 222.5 | 239.6 | 205.8 | 185.4 | 182.9 | 190.6 |
| 60° | 1402.1 | 679.4 | 156.7 | 153.9 | 175.1 | 206.7 | 222.8 | 196.8 | 177.7 | 176.4 | 184.8 |
| 62.5° | 1283.2 | 586.5 | 147.9 | 145.6 | 165.3 | 195.6 | 214.8 | 186.8 | 169.6 | 169.5 | 177.5 |
| 65° | 1050.9 | 470.8 | 139.6 | 139.0 | 156.1 | 184.7 | 207.2 | 178.4 | 161.3 | 164.2 | 172.3 |
| 67.5° | 724.1 | 330.9 | 130.7 | 132.4 | 147.7 | 174.1 | 201.4 | 172.7 | 152.6 | 158.4 | 165.7 |
| 70° | 397.3 | 204.6 | 120.9 | 124.2 | 137.0 | 161.9 | 192.4 | 163.6 | 141.3 | 150.1 | 155.2 |
| 72.5° | 202.1 | 136.5 | 108.6 | 114.0 | 124.0 | 143.9 | 175.5 | 150.4 | 129.0 | 132.4 | 135.1 |
| 75° | 135.8 | 102.7 | 95.0 | 100.9 | 108.1 | 126.8 | 155.7 | 138.0 | 117.4 | 116.9 | 119.9 |
| 77.5° | 102.6 | 80.3 | 80.7 | 87.4 | 92.1 | 111.5 | 140.0 | 127.6 | 107.5 | 106.5 | 110.9 |
| 80° | 75.1 | 60.9 | 64.9 | 72.0 | 76.2 | 100.1 | 129.7 | 116.1 | 94.2 | 90.2 | 93.9 |
| 82.5° | 49.8 | 43.1 | 48.1 | 55.1 | 58.5 | 83.6 | 117.8 | 98.5 | 76.7 | 66.8 | 67.3 |
| 85° | 23.5 | 22.6 | 28.7 | 32.0 | 36.4 | 51.9 | 88.1 | 68.2 | 48.9 | 40.5 | 42.3 |
| 87.5° | 5.3 | 7.2 | 9.4 | 9.3 | 10.8 | 13.9 | 27.4 | 19.1 | 14.2 | 9.7 | 6.5 |
| 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)