

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: P597922

Luminaire Tested: **PMM-SA1B-827-U-T3**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-10)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA1B-827-U-T3
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3718 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

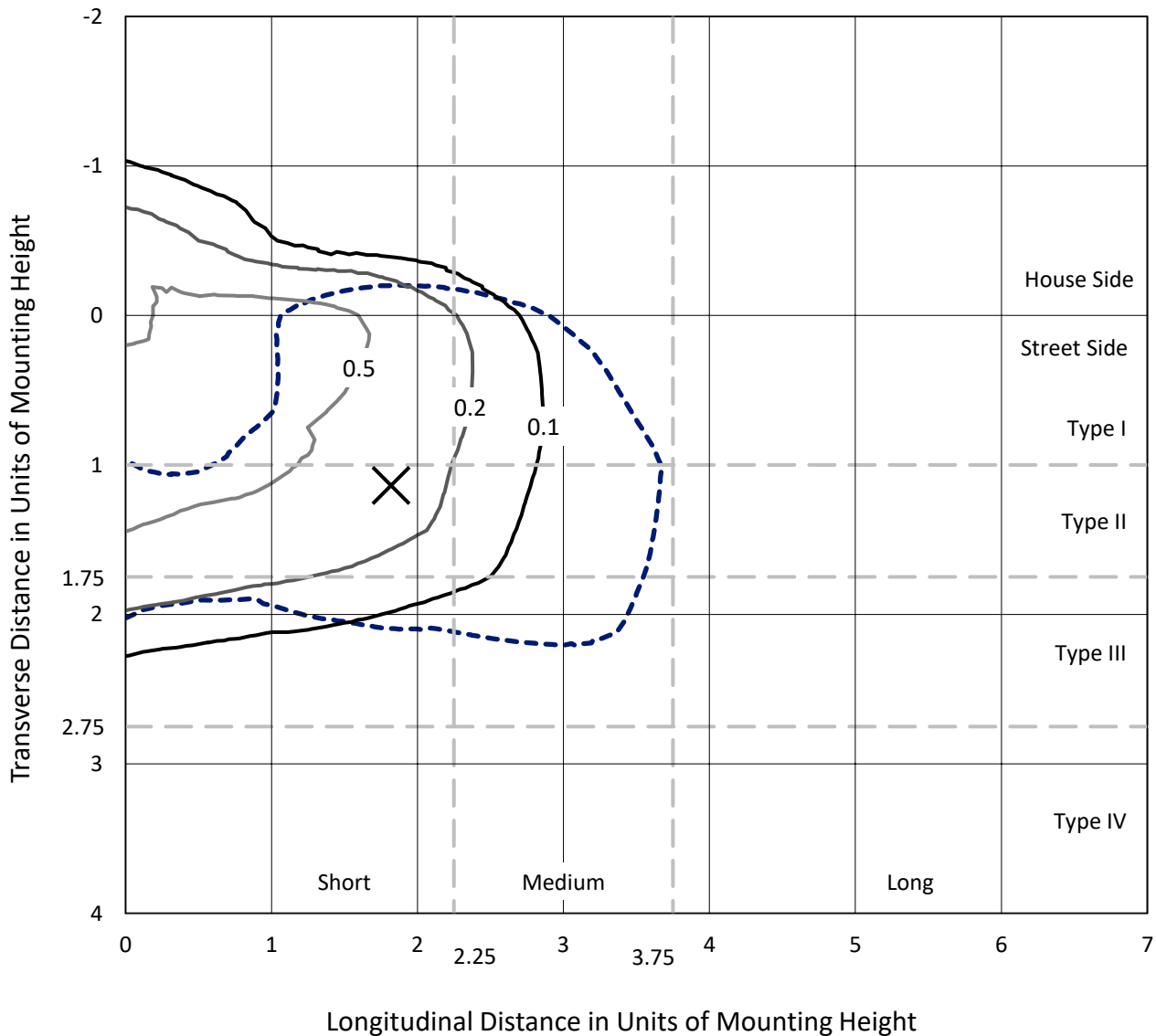


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Iso-Footcandle Lines of Horizontal Illumination

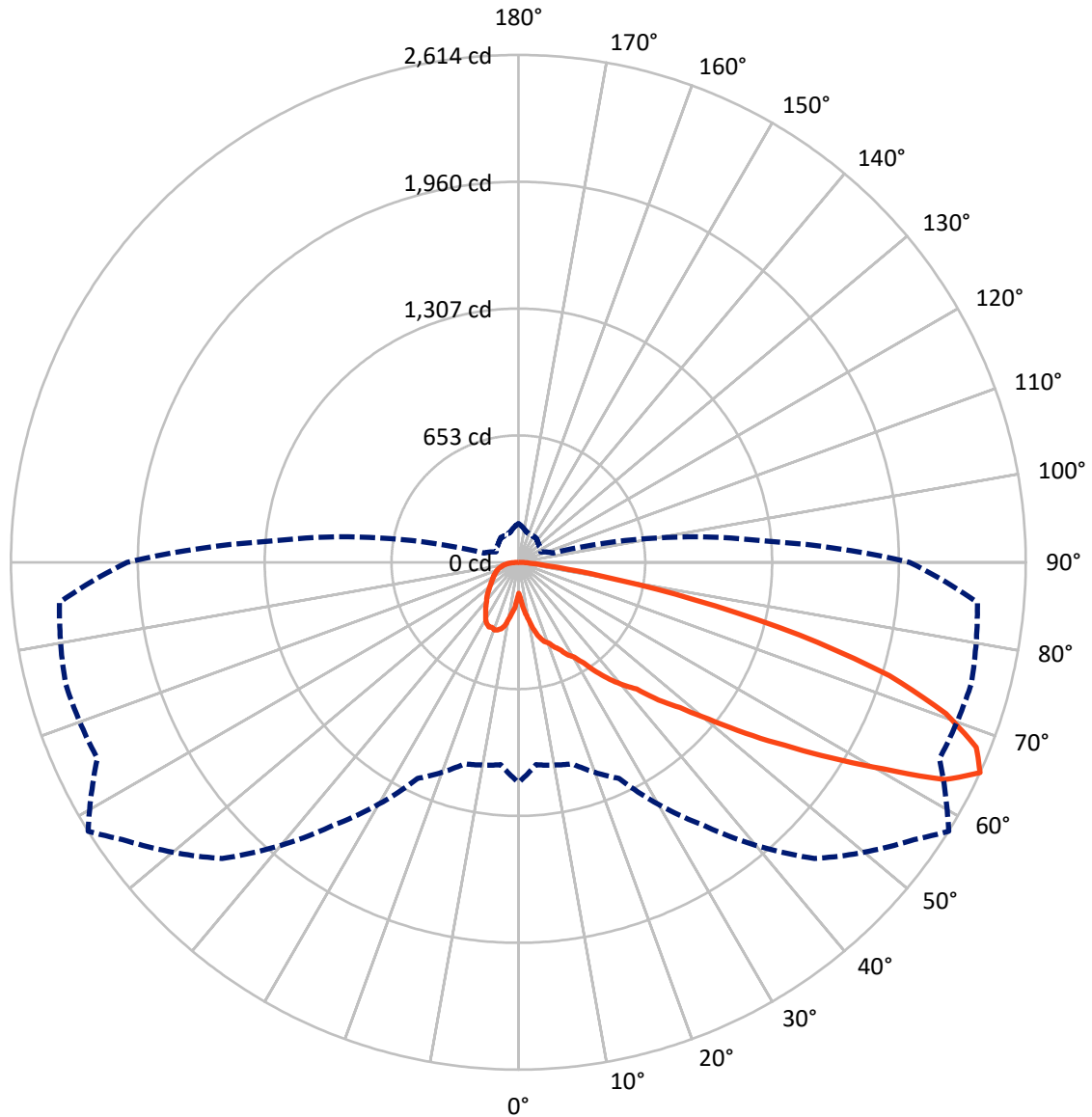
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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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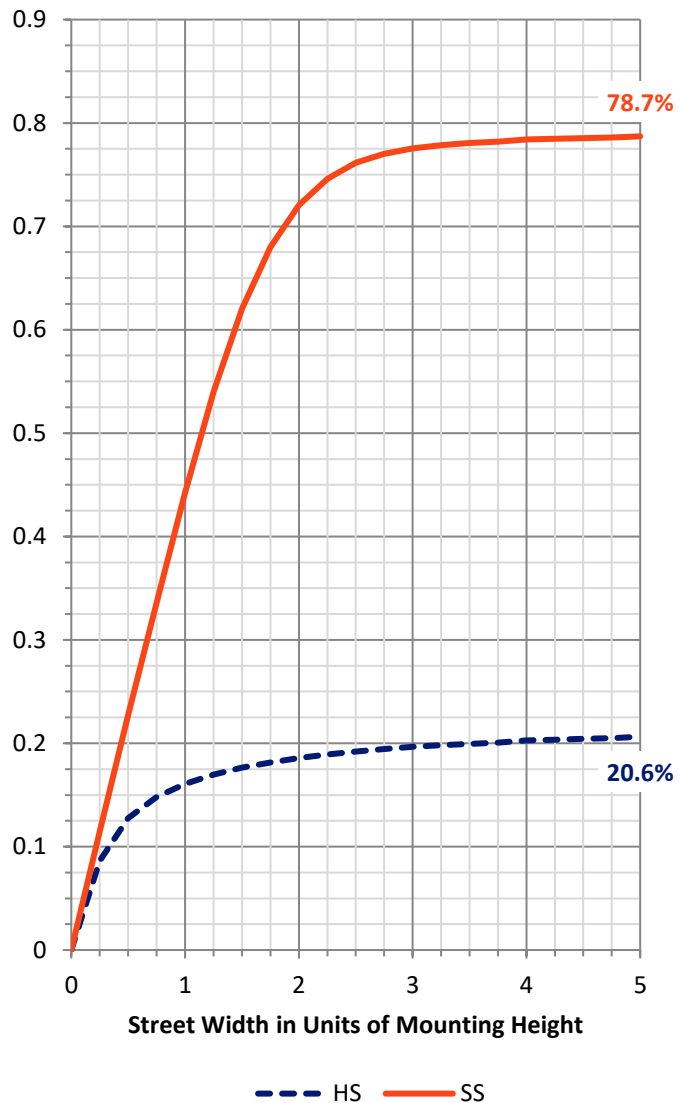
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 783.1 | 0.0 | 783.1 |
| | % Fixture | 21.1 | 0.0 | 21.1 |
| Street Side | Lumens | 2934.9 | 0.0 | 2934.9 |
| | % Fixture | 78.9 | 0.0 | 78.9 |
| Total | Lumens | 3718.0 | 0.0 | 3718.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 24.3 | 0.7 |
| 10°-20° | 106.1 | 2.9 |
| 20°-30° | 203.6 | 5.5 |
| 30°-40° | 336.1 | 9.0 |
| 40°-50° | 558.7 | 15.0 |
| 50°-60° | 922.7 | 24.8 |
| 60°-70° | 1035.1 | 27.8 |
| 70°-80° | 470.6 | 12.7 |
| 80°-90° | 60.7 | 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° | 3718.0 | 100.0 |
| 0°-180° | 3718.0 | 100.0 |

Coefficient of Utilization



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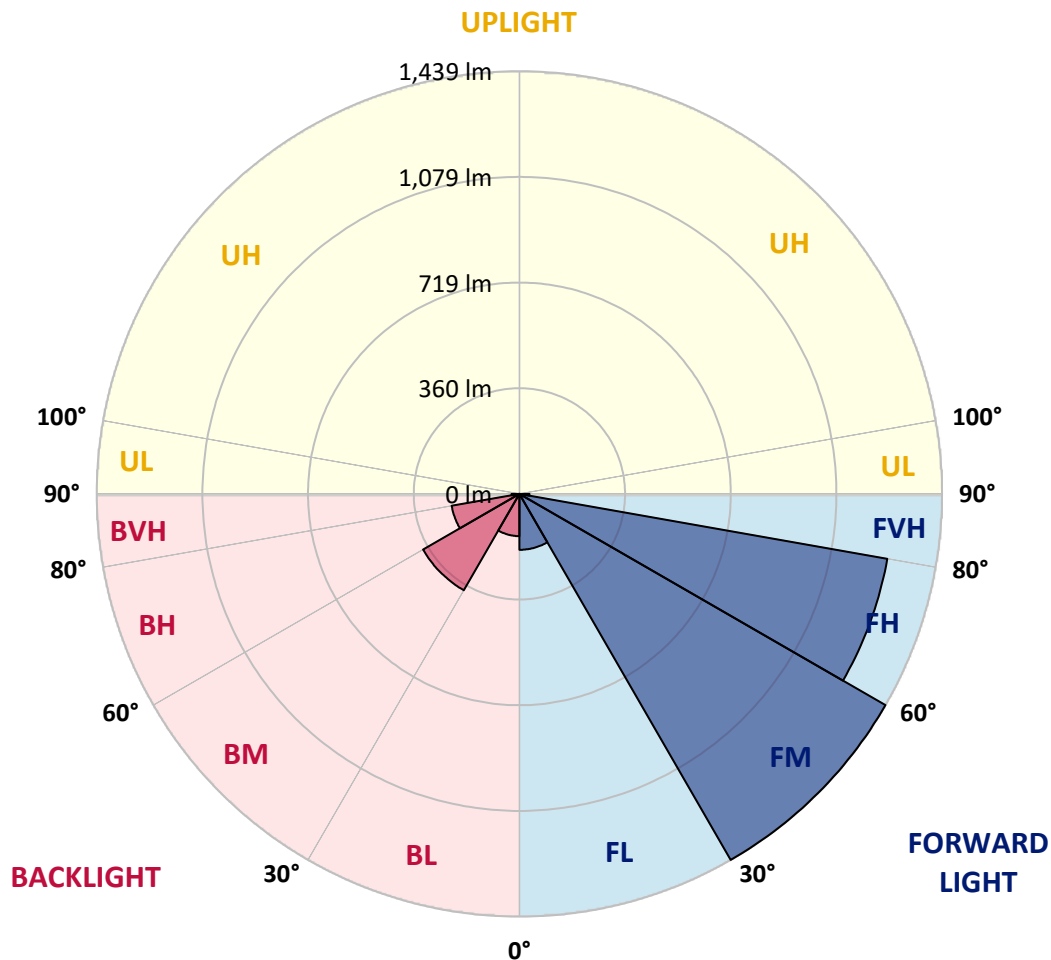
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 190.3 | 5.1 | | | |
| FM (30°-60°) | 1438.8 | 38.7 | | | |
| FH (60°-80°) | 1271.6 | 34.2 | | | G1/1800 |
| FVH (80°-90°) | 34.2 | 0.9 | | | G1/100 |
| BL (0°-30°) | 143.8 | 3.9 | B1/500 | | |
| BM (30°-60°) | 378.7 | 10.2 | B1/1000 | | |
| BH (60°-80°) | 234.1 | 6.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 26.5 | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 |
| 2.5° | 190.6 | 184.9 | 175.3 | 177.6 | 183.2 | 186.3 | 184.4 | 181.9 | 178.7 | 178.1 | 192.3 |
| 5° | 246.8 | 235.8 | 231.3 | 229.5 | 222.7 | 218.6 | 225.6 | 224.7 | 228.4 | 235.2 | 249.1 |
| 7.5° | 287.8 | 280.1 | 272.7 | 271.9 | 258.7 | 254.1 | 263.4 | 268.3 | 275.0 | 275.1 | 294.0 |
| 10° | 309.8 | 303.2 | 303.0 | 296.0 | 295.0 | 303.8 | 303.9 | 307.7 | 308.4 | 316.3 | 312.6 |
| 12.5° | 333.7 | 333.2 | 341.7 | 341.6 | 351.5 | 366.0 | 358.8 | 358.8 | 360.9 | 351.3 | 363.1 |
| 15° | 390.5 | 395.4 | 379.5 | 382.1 | 382.1 | 396.4 | 395.9 | 398.7 | 405.4 | 402.9 | 397.6 |
| 17.5° | 449.6 | 452.7 | 435.1 | 418.7 | 419.9 | 416.8 | 428.0 | 429.0 | 422.7 | 451.5 | 445.1 |
| 20° | 487.7 | 499.8 | 462.6 | 442.1 | 446.1 | 449.6 | 450.1 | 443.4 | 440.2 | 484.5 | 475.8 |
| 22.5° | 534.8 | 524.6 | 490.5 | 467.8 | 473.8 | 469.0 | 468.1 | 473.2 | 477.7 | 494.4 | 508.5 |
| 25° | 566.2 | 565.5 | 524.6 | 499.6 | 493.0 | 491.6 | 501.0 | 499.0 | 509.7 | 540.1 | 531.2 |
| 27.5° | 611.9 | 626.1 | 553.7 | 559.9 | 530.6 | 499.8 | 530.2 | 539.3 | 558.5 | 553.5 | 573.2 |
| 30° | 700.5 | 689.8 | 614.1 | 612.4 | 579.2 | 553.4 | 574.4 | 566.7 | 601.2 | 600.1 | 614.7 |
| 32.5° | 772.8 | 780.2 | 685.0 | 667.2 | 642.6 | 611.4 | 597.5 | 619.0 | 637.6 | 668.1 | 676.3 |
| 35° | 849.3 | 847.6 | 757.6 | 721.7 | 681.0 | 668.1 | 685.3 | 694.3 | 733.8 | 761.8 | 742.3 |
| 37.5° | 968.2 | 954.7 | 851.7 | 783.8 | 753.3 | 748.6 | 778.0 | 765.0 | 807.8 | 814.4 | 825.4 |
| 40° | 1078.7 | 1038.2 | 937.8 | 859.9 | 811.5 | 828.8 | 829.8 | 831.5 | 854.4 | 872.5 | 926.8 |
| 42.5° | 1183.9 | 1155.4 | 1025.3 | 966.8 | 895.4 | 878.5 | 889.1 | 892.6 | 950.5 | 987.5 | 1062.8 |
| 45° | 1327.5 | 1251.2 | 1151.0 | 1091.0 | 1011.1 | 989.5 | 982.1 | 1012.8 | 1068.7 | 1152.9 | 1217.5 |
| 47.5° | 1449.1 | 1380.2 | 1284.7 | 1205.5 | 1116.2 | 1177.7 | 1135.6 | 1118.4 | 1193.5 | 1297.8 | 1400.6 |
| 50° | 1549.9 | 1474.0 | 1380.3 | 1334.7 | 1320.4 | 1375.2 | 1265.9 | 1267.9 | 1336.7 | 1483.9 | 1601.8 |
| 52.5° | 1627.9 | 1546.9 | 1464.0 | 1440.7 | 1520.3 | 1551.9 | 1472.9 | 1461.0 | 1511.2 | 1685.2 | 1826.7 |
| 55° | 1700.9 | 1614.9 | 1550.8 | 1598.2 | 1732.3 | 1735.8 | 1730.3 | 1664.2 | 1724.5 | 1900.9 | 2059.6 |
| 57.5° | 1719.6 | 1627.0 | 1584.4 | 1652.4 | 1833.7 | 1974.8 | 2030.2 | 1900.4 | 1961.9 | 2097.1 | 2259.0 |
| 60° | 1623.1 | 1543.9 | 1526.8 | 1619.1 | 1888.5 | 2094.8 | 2239.5 | 2161.9 | 2138.9 | 2254.5 | 2398.7 |
| 62.5° | 1425.6 | 1333.6 | 1347.4 | 1475.6 | 1830.8 | 2142.3 | 2404.9 | 2465.4 | 2325.8 | 2379.8 | 2459.7 |
| 65° | 1134.6 | 1046.8 | 1074.7 | 1228.9 | 1649.4 | 2158.1 | 2489.4 | 2613.6 | 2393.3 | 2415.3 | 2373.3 |
| 67.5° | 800.2 | 720.4 | 755.6 | 955.0 | 1372.1 | 1955.9 | 2504.0 | 2544.5 | 2321.4 | 2314.2 | 2137.3 |
| 70° | 453.4 | 403.3 | 441.4 | 607.7 | 968.5 | 1558.1 | 2389.9 | 2336.4 | 2192.6 | 2089.5 | 1788.3 |
| 72.5° | 207.9 | 190.8 | 209.0 | 309.4 | 557.6 | 1036.8 | 1951.1 | 1999.5 | 1889.3 | 1760.3 | 1360.5 |
| 75° | 110.6 | 104.5 | 112.3 | 154.5 | 260.9 | 564.1 | 1386.2 | 1495.2 | 1436.6 | 1335.1 | 887.5 |
| 77.5° | 82.2 | 77.6 | 81.3 | 100.2 | 139.4 | 220.6 | 787.6 | 925.1 | 947.4 | 854.1 | 492.8 |
| 80° | 63.0 | 59.3 | 63.0 | 75.7 | 96.5 | 104.8 | 336.8 | 431.2 | 491.1 | 396.8 | 195.9 |
| 82.5° | 46.8 | 44.3 | 50.0 | 56.8 | 67.8 | 65.5 | 119.5 | 148.8 | 191.8 | 131.1 | 76.3 |
| 85° | 37.2 | 34.1 | 36.2 | 38.6 | 43.4 | 35.9 | 54.7 | 61.2 | 64.7 | 54.2 | 28.2 |
| 87.5° | 14.6 | 13.5 | 26.3 | 20.7 | 17.7 | 10.8 | 16.4 | 18.6 | 19.0 | 18.3 | 8.2 |
| 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° | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 |
| 2.5° | 193.9 | 192.3 | 183.2 | 186.1 | 190.9 | 191.8 | 193.9 | 188.3 | 185.5 | 195.7 | 196.2 |
| 5° | 250.4 | 242.0 | 237.7 | 238.1 | 235.0 | 230.2 | 237.5 | 242.3 | 244.2 | 251.8 | 254.5 |
| 7.5° | 294.2 | 284.1 | 276.8 | 268.5 | 256.7 | 249.1 | 261.8 | 271.1 | 276.1 | 291.9 | 298.1 |
| 10° | 313.7 | 305.6 | 304.1 | 293.6 | 293.3 | 293.1 | 292.5 | 289.2 | 299.9 | 298.4 | 302.7 |
| 12.5° | 354.0 | 352.2 | 337.5 | 333.4 | 333.8 | 333.4 | 320.4 | 319.7 | 319.9 | 334.1 | 329.0 |
| 15° | 391.4 | 391.7 | 378.3 | 363.1 | 349.5 | 345.3 | 340.2 | 337.8 | 341.3 | 349.3 | 344.4 |
| 17.5° | 437.7 | 439.3 | 400.7 | 376.7 | 358.8 | 358.3 | 346.1 | 331.7 | 352.4 | 357.4 | 351.9 |
| 20° | 467.6 | 461.1 | 413.7 | 373.5 | 368.4 | 354.4 | 339.2 | 319.4 | 337.4 | 349.5 | 352.9 |
| 22.5° | 495.9 | 484.6 | 425.8 | 379.2 | 354.7 | 338.2 | 323.4 | 310.6 | 316.3 | 329.8 | 327.6 |
| 25° | 515.1 | 512.0 | 442.5 | 393.0 | 354.3 | 317.4 | 297.6 | 289.4 | 292.3 | 313.2 | 311.2 |
| 27.5° | 561.0 | 527.5 | 439.6 | 396.5 | 339.4 | 289.1 | 279.2 | 270.3 | 267.4 | 290.0 | 296.2 |
| 30° | 591.6 | 577.8 | 459.2 | 391.0 | 320.7 | 265.9 | 251.3 | 249.4 | 250.4 | 276.1 | 277.8 |
| 32.5° | 643.6 | 607.9 | 491.4 | 369.6 | 293.4 | 248.7 | 231.9 | 232.7 | 236.9 | 255.6 | 259.5 |
| 35° | 697.8 | 676.5 | 495.8 | 354.3 | 271.3 | 230.4 | 223.6 | 218.2 | 220.5 | 236.9 | 237.7 |
| 37.5° | 798.5 | 724.6 | 522.4 | 330.6 | 255.0 | 223.4 | 210.4 | 205.6 | 206.9 | 216.1 | 222.8 |
| 40° | 887.0 | 821.4 | 510.0 | 307.7 | 234.9 | 214.1 | 197.9 | 194.3 | 190.6 | 199.7 | 203.9 |
| 42.5° | 1029.0 | 890.5 | 505.8 | 282.4 | 225.4 | 201.6 | 190.4 | 181.0 | 177.4 | 185.2 | 192.8 |
| 45° | 1171.0 | 963.7 | 483.1 | 256.9 | 212.1 | 200.7 | 179.6 | 170.6 | 171.6 | 178.5 | 186.3 |
| 47.5° | 1329.3 | 1062.0 | 444.5 | 232.1 | 197.6 | 196.2 | 168.8 | 164.9 | 167.7 | 175.4 | 183.2 |
| 50° | 1516.3 | 1166.4 | 412.6 | 209.8 | 187.2 | 182.7 | 167.4 | 162.7 | 165.4 | 174.5 | 182.1 |
| 52.5° | 1720.8 | 1280.8 | 389.4 | 189.2 | 175.4 | 172.0 | 169.2 | 164.7 | 167.8 | 175.7 | 183.6 |
| 55° | 1924.1 | 1385.3 | 373.6 | 175.1 | 165.4 | 167.5 | 173.1 | 169.9 | 171.4 | 177.3 | 185.2 |
| 57.5° | 2074.9 | 1440.4 | 341.9 | 160.1 | 157.2 | 164.9 | 173.6 | 168.1 | 169.1 | 177.3 | 185.8 |
| 60° | 2162.6 | 1451.0 | 289.7 | 147.9 | 150.7 | 159.6 | 168.8 | 161.8 | 161.2 | 174.7 | 185.3 |
| 62.5° | 2153.0 | 1389.8 | 229.8 | 136.7 | 143.2 | 151.7 | 161.5 | 154.8 | 156.5 | 175.0 | 186.3 |
| 65° | 2015.5 | 1264.8 | 182.7 | 127.3 | 134.2 | 143.1 | 155.5 | 152.8 | 161.0 | 187.3 | 199.6 |
| 67.5° | 1773.9 | 1082.3 | 146.8 | 118.4 | 125.9 | 137.2 | 159.6 | 166.6 | 170.2 | 200.0 | 212.6 |
| 70° | 1437.6 | 840.9 | 122.3 | 110.7 | 119.2 | 140.0 | 171.7 | 170.3 | 167.4 | 194.0 | 203.9 |
| 72.5° | 1038.6 | 576.4 | 107.6 | 103.1 | 111.0 | 131.6 | 172.0 | 164.6 | 160.9 | 177.1 | 184.3 |
| 75° | 649.8 | 343.9 | 94.0 | 93.5 | 98.5 | 118.0 | 164.3 | 157.6 | 147.6 | 155.6 | 164.9 |
| 77.5° | 371.1 | 176.0 | 79.1 | 83.3 | 86.2 | 102.3 | 147.1 | 141.1 | 132.1 | 135.5 | 144.6 |
| 80° | 141.7 | 85.2 | 66.7 | 74.0 | 73.2 | 86.7 | 124.6 | 123.2 | 113.0 | 114.1 | 119.7 |
| 82.5° | 66.7 | 47.7 | 55.4 | 63.6 | 59.5 | 69.1 | 101.3 | 100.8 | 91.8 | 83.1 | 87.6 |
| 85° | 24.8 | 25.4 | 40.6 | 48.5 | 41.3 | 44.6 | 73.2 | 71.2 | 62.6 | 52.8 | 58.4 |
| 87.5° | 5.6 | 9.1 | 20.0 | 25.2 | 14.4 | 13.8 | 29.6 | 25.7 | 24.8 | 14.7 | 15.5 |
| 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)