

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: P959227

Luminaire Tested: **NVN-SB1A-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1A-727-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4169.7 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

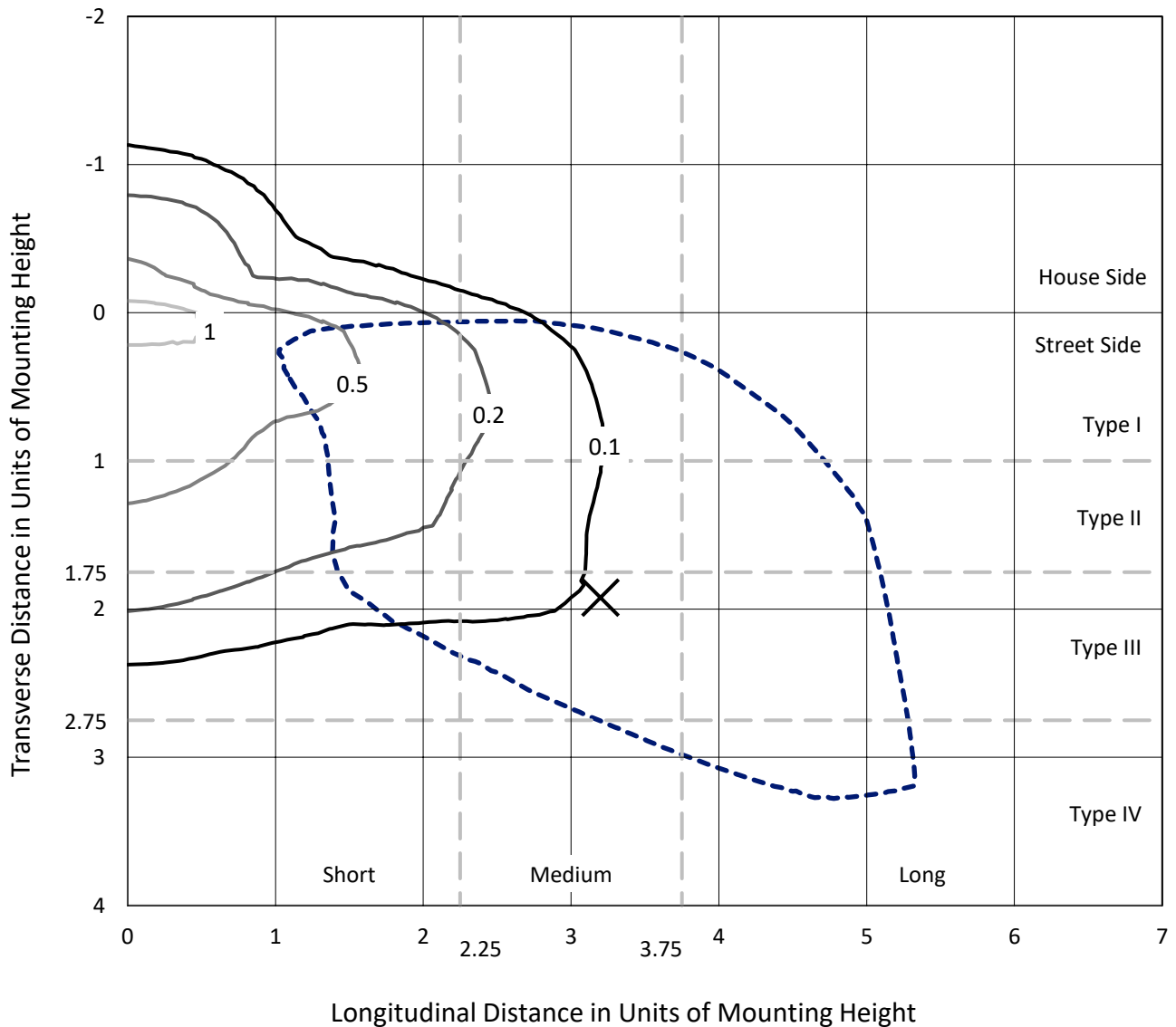
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

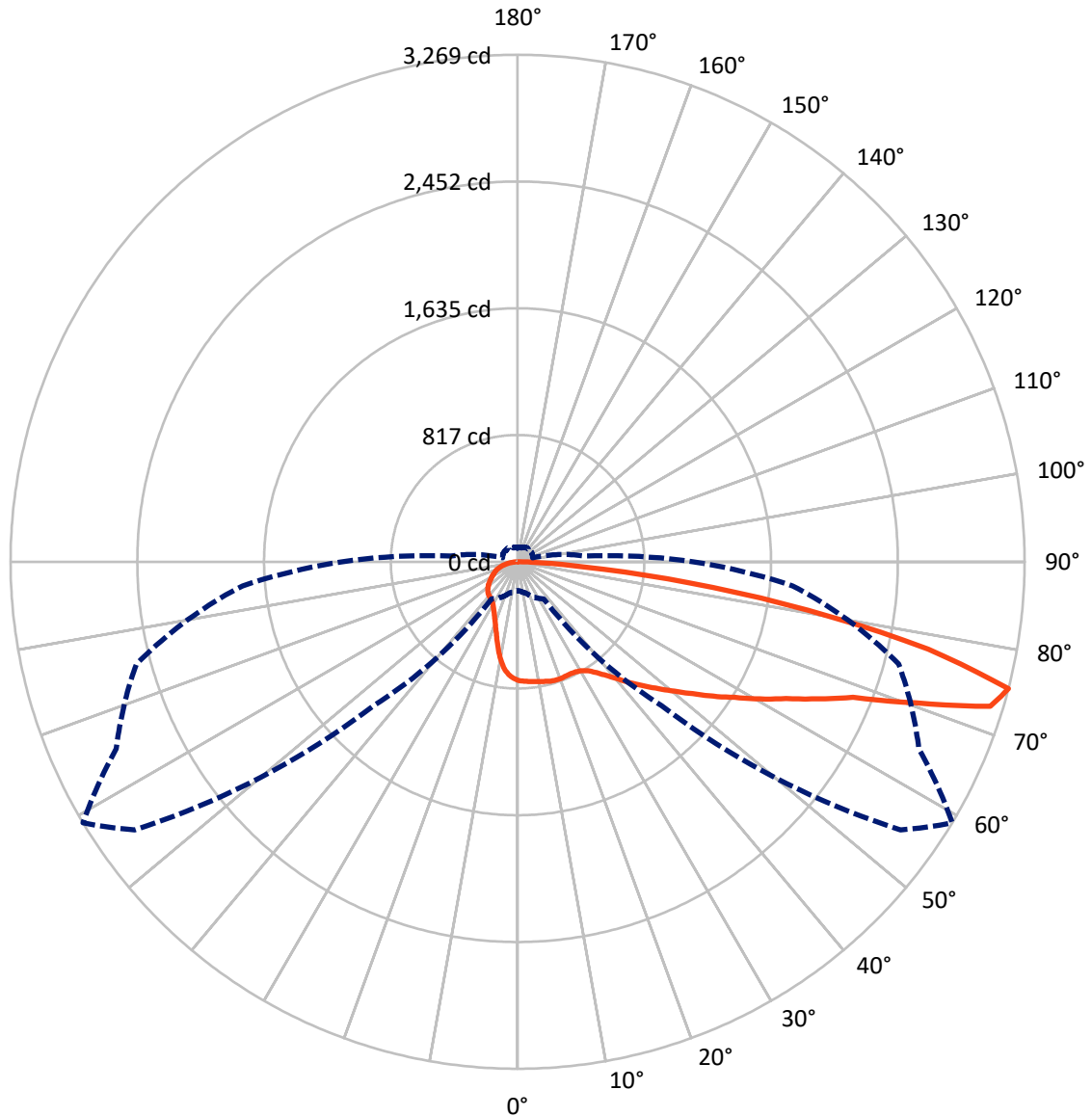
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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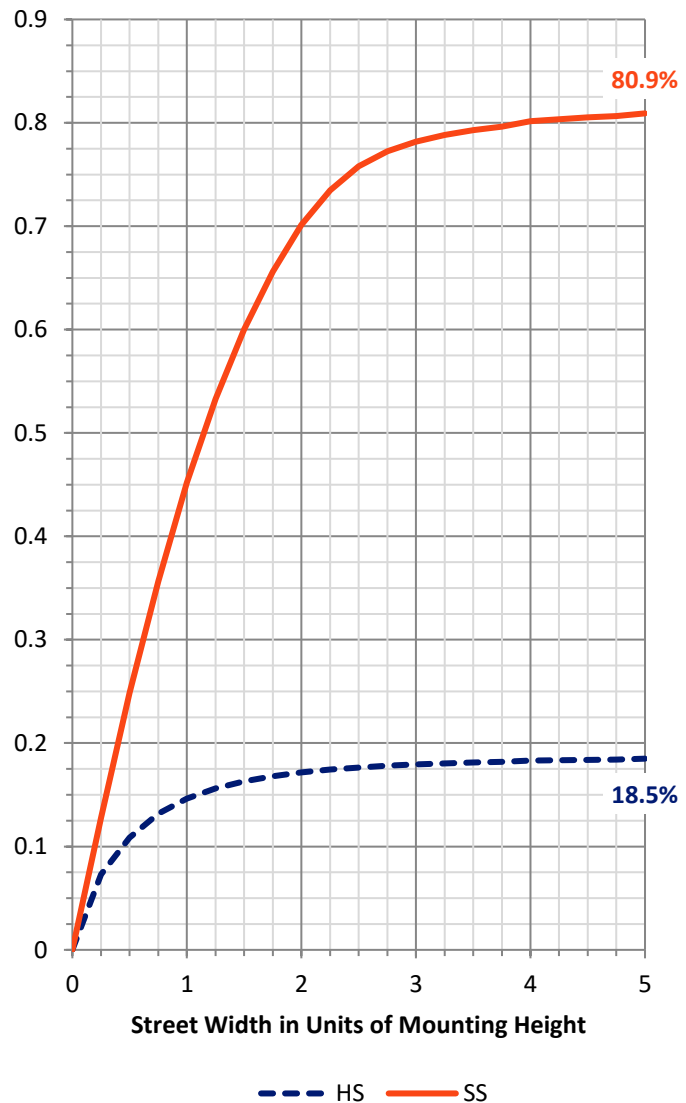
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 782.1 | 0.0 | 782.1 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 3387.6 | 0.0 | 3387.6 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 4169.7 | 0.0 | 4169.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.6 | 1.6 |
| 10°-20° | 175.4 | 4.2 |
| 20°-30° | 266.4 | 6.4 |
| 30°-40° | 396.0 | 9.5 |
| 40°-50° | 589.0 | 14.1 |
| 50°-60° | 799.5 | 19.2 |
| 60°-70° | 976.0 | 23.4 |
| 70°-80° | 766.0 | 18.4 |
| 80°-90° | 132.7 | 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° | 4169.7 | 100.0 |
| 0°-180° | 4169.7 | 100.0 |

Coefficient of Utilization

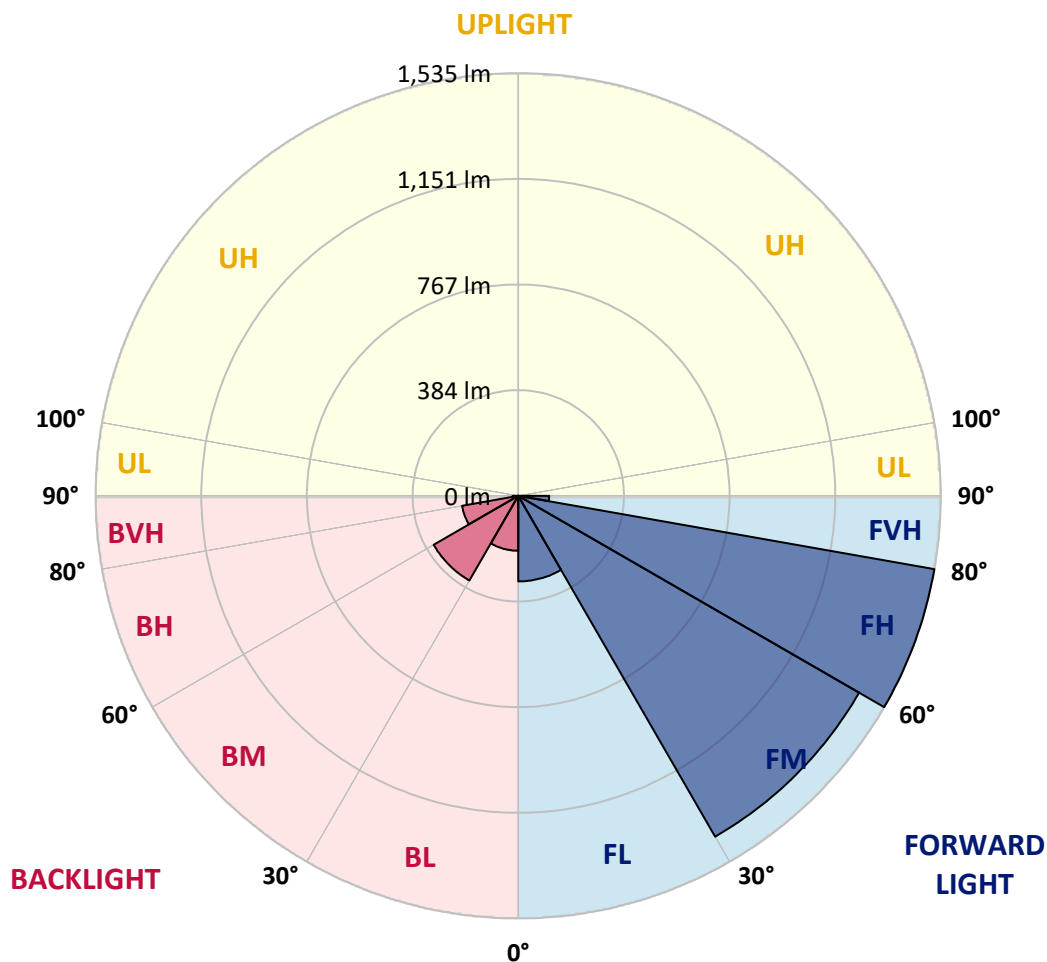


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 310.9 | 7.5 | | | |
| FM (30°-60°) | 1429.5 | 34.3 | | | |
| FH (60°-80°) | 1534.8 | 36.8 | | | G1/1800 |
| FVH (80°-90°) | 112.4 | 2.7 | | | G2/225 |
| BL (0°-30°) | 199.6 | 4.8 | B1/500 | | |
| BM (30°-60°) | 355.0 | 8.5 | B1/1000 | | |
| BH (60°-80°) | 207.2 | 5.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 20.3 | 0.5 | | | 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 IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 765.4 | 765.4 | 765.4 | 765.4 | 765.4 | 765.4 | 765.4 | 765.4 | 765.4 | 765.4 | 765.4 |
| 2.5° | 771.8 | 769.2 | 771.8 | 770.7 | 770.3 | 769.4 | 769.6 | 771.2 | 770.3 | 771.4 | 767.6 |
| 5° | 766.7 | 765.2 | 767.8 | 767.1 | 770.1 | 770.5 | 773.5 | 775.2 | 776.3 | 776.5 | 773.7 |
| 7.5° | 758.2 | 756.6 | 760.4 | 763.5 | 769.8 | 771.6 | 777.7 | 780.6 | 782.2 | 784.8 | 780.6 |
| 10° | 727.0 | 726.3 | 735.7 | 747.6 | 762.4 | 771.6 | 780.8 | 785.8 | 788.2 | 795.4 | 790.5 |
| 12.5° | 671.8 | 672.7 | 685.0 | 708.0 | 737.5 | 767.1 | 784.4 | 791.6 | 795.4 | 804.3 | 802.2 |
| 15° | 619.1 | 618.9 | 632.3 | 656.8 | 698.2 | 747.4 | 786.2 | 798.6 | 805.0 | 818.3 | 816.5 |
| 17.5° | 588.6 | 587.7 | 597.1 | 615.7 | 654.3 | 717.1 | 781.7 | 802.4 | 816.2 | 832.8 | 831.3 |
| 20° | 583.0 | 581.2 | 586.1 | 595.3 | 622.7 | 683.9 | 770.1 | 802.4 | 825.2 | 846.8 | 845.8 |
| 22.5° | 603.4 | 600.4 | 598.5 | 597.4 | 609.5 | 656.5 | 756.9 | 799.7 | 838.4 | 866.7 | 865.2 |
| 25° | 644.4 | 639.9 | 629.7 | 619.5 | 615.9 | 644.2 | 745.2 | 799.0 | 858.2 | 893.6 | 887.9 |
| 27.5° | 710.8 | 705.2 | 684.4 | 660.1 | 638.4 | 650.5 | 739.9 | 803.0 | 880.0 | 922.1 | 910.5 |
| 30° | 793.1 | 787.1 | 760.9 | 723.6 | 684.6 | 673.8 | 746.5 | 814.9 | 907.7 | 960.0 | 937.2 |
| 32.5° | 866.9 | 860.2 | 837.8 | 799.9 | 747.1 | 714.2 | 767.1 | 837.5 | 951.5 | 1012.7 | 977.3 |
| 35° | 932.4 | 924.6 | 904.5 | 869.4 | 823.9 | 770.9 | 804.3 | 877.7 | 1013.6 | 1098.4 | 1031.9 |
| 37.5° | 996.6 | 987.4 | 965.4 | 928.4 | 896.6 | 846.5 | 855.8 | 929.3 | 1096.2 | 1202.5 | 1104.0 |
| 40° | 1068.4 | 1055.1 | 1028.5 | 991.9 | 960.9 | 935.1 | 923.2 | 992.6 | 1180.1 | 1318.7 | 1194.2 |
| 42.5° | 1138.0 | 1125.3 | 1093.5 | 1062.3 | 1023.6 | 1016.1 | 1001.5 | 1066.6 | 1271.8 | 1446.4 | 1285.8 |
| 45° | 1212.9 | 1197.8 | 1159.3 | 1119.7 | 1095.3 | 1070.0 | 1077.4 | 1140.6 | 1361.8 | 1576.4 | 1381.7 |
| 47.5° | 1283.0 | 1266.2 | 1220.7 | 1176.7 | 1163.3 | 1115.3 | 1146.9 | 1222.0 | 1455.3 | 1708.4 | 1476.8 |
| 50° | 1320.9 | 1304.3 | 1266.5 | 1226.7 | 1216.2 | 1171.1 | 1222.2 | 1311.5 | 1553.3 | 1839.8 | 1568.1 |
| 52.5° | 1352.6 | 1334.7 | 1285.0 | 1263.1 | 1259.9 | 1231.9 | 1315.1 | 1413.8 | 1651.4 | 1956.0 | 1656.3 |
| 55° | 1386.2 | 1366.2 | 1303.0 | 1283.3 | 1297.6 | 1300.1 | 1425.3 | 1529.8 | 1755.0 | 2069.3 | 1739.5 |
| 57.5° | 1425.1 | 1399.6 | 1320.3 | 1300.3 | 1334.4 | 1380.0 | 1551.7 | 1650.0 | 1856.8 | 2174.2 | 1813.5 |
| 60° | 1461.5 | 1436.0 | 1353.5 | 1327.5 | 1374.1 | 1472.6 | 1696.9 | 1795.6 | 1972.1 | 2267.7 | 1883.5 |
| 62.5° | 1468.7 | 1447.7 | 1380.0 | 1379.8 | 1427.9 | 1580.7 | 1868.7 | 1942.5 | 2072.9 | 2360.2 | 1946.3 |
| 65° | 1344.5 | 1331.3 | 1291.1 | 1377.7 | 1505.1 | 1736.4 | 2060.0 | 2130.5 | 2200.9 | 2440.9 | 2001.5 |
| 67.5° | 1023.3 | 1025.1 | 1022.1 | 1189.3 | 1442.8 | 1960.0 | 2337.1 | 2331.7 | 2359.0 | 2531.5 | 2065.0 |
| 70° | 467.9 | 478.5 | 547.0 | 820.9 | 1155.9 | 1985.8 | 2795.1 | 2725.4 | 2557.6 | 2648.8 | 2119.9 |
| 72.5° | 252.8 | 260.9 | 288.9 | 397.7 | 694.9 | 1765.6 | 3137.4 | 3186.9 | 2821.6 | 2727.8 | 2059.6 |
| 75° | 185.5 | 190.0 | 209.5 | 252.8 | 291.8 | 1312.2 | 3014.7 | 3269.0 | 2854.5 | 2543.6 | 1778.6 |
| 77.5° | 138.9 | 140.8 | 156.8 | 200.3 | 149.3 | 691.8 | 2408.9 | 2707.4 | 2443.6 | 2089.9 | 1313.7 |
| 80° | 100.8 | 102.9 | 114.8 | 150.3 | 104.8 | 253.0 | 1654.0 | 1900.4 | 1673.5 | 1332.2 | 654.8 |
| 82.5° | 69.5 | 70.4 | 75.5 | 102.3 | 73.1 | 98.3 | 938.5 | 1114.4 | 934.3 | 467.5 | 176.7 |
| 85° | 41.9 | 43.0 | 45.3 | 59.7 | 41.5 | 46.6 | 405.1 | 419.0 | 279.3 | 111.7 | 54.9 |
| 87.5° | 17.3 | 18.3 | 20.2 | 25.1 | 16.4 | 13.0 | 66.8 | 83.8 | 52.3 | 32.8 | 17.0 |
| 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° | 765.4 | 765.4 | 765.4 | 765.4 | 765.4 | 765.4 | 765.4 | 765.4 | 765.4 | 765.4 | 765.4 |
| 2.5° | 766.5 | 764.9 | 760.7 | 754.8 | 749.4 | 742.7 | 739.7 | 737.3 | 735.0 | 730.8 | 728.8 |
| 5° | 771.2 | 766.9 | 755.4 | 740.7 | 723.9 | 705.4 | 687.5 | 675.2 | 664.6 | 656.8 | 650.3 |
| 7.5° | 778.4 | 770.3 | 749.4 | 719.1 | 680.6 | 641.0 | 605.4 | 580.0 | 561.0 | 554.0 | 541.9 |
| 10° | 785.8 | 776.1 | 739.7 | 686.3 | 619.7 | 558.9 | 511.7 | 485.6 | 470.4 | 465.5 | 457.8 |
| 12.5° | 794.5 | 780.3 | 724.8 | 640.8 | 551.8 | 485.1 | 443.9 | 428.7 | 420.8 | 418.1 | 418.8 |
| 15° | 807.3 | 783.9 | 702.1 | 583.8 | 487.0 | 431.3 | 404.7 | 394.1 | 390.1 | 389.8 | 390.7 |
| 17.5° | 816.9 | 784.6 | 666.9 | 522.9 | 437.2 | 398.8 | 376.8 | 372.8 | 375.5 | 379.6 | 381.1 |
| 20° | 827.7 | 778.6 | 620.6 | 467.2 | 402.2 | 370.3 | 361.1 | 363.9 | 370.3 | 376.2 | 378.2 |
| 22.5° | 835.3 | 767.6 | 564.8 | 423.9 | 371.9 | 353.9 | 353.5 | 359.2 | 362.7 | 365.6 | 367.2 |
| 25° | 842.0 | 749.0 | 505.6 | 387.7 | 347.0 | 344.1 | 349.0 | 347.3 | 344.8 | 347.3 | 348.8 |
| 27.5° | 847.0 | 719.6 | 452.6 | 355.8 | 329.5 | 337.3 | 334.5 | 330.4 | 330.2 | 331.5 | 333.7 |
| 30° | 845.4 | 680.3 | 409.2 | 325.4 | 317.1 | 324.8 | 317.9 | 317.1 | 316.5 | 317.1 | 319.6 |
| 32.5° | 845.4 | 635.7 | 375.8 | 304.6 | 309.3 | 306.4 | 305.8 | 304.1 | 301.5 | 301.2 | 304.1 |
| 35° | 850.1 | 591.0 | 347.0 | 293.4 | 302.8 | 295.8 | 296.3 | 292.5 | 286.9 | 284.2 | 286.9 |
| 37.5° | 859.8 | 555.1 | 318.5 | 288.0 | 291.4 | 291.2 | 289.4 | 282.9 | 273.0 | 264.4 | 267.4 |
| 40° | 883.1 | 544.6 | 299.0 | 285.6 | 286.0 | 288.6 | 283.9 | 271.4 | 249.0 | 235.0 | 236.9 |
| 42.5° | 919.6 | 562.3 | 294.8 | 279.5 | 282.4 | 285.1 | 275.9 | 246.7 | 230.8 | 222.5 | 222.5 |
| 45° | 966.1 | 593.3 | 303.9 | 270.7 | 273.9 | 278.6 | 251.2 | 237.3 | 230.1 | 230.3 | 231.4 |
| 47.5° | 1024.9 | 625.9 | 321.0 | 263.1 | 261.6 | 264.2 | 234.8 | 226.3 | 216.5 | 218.9 | 225.2 |
| 50° | 1092.9 | 658.8 | 337.1 | 252.8 | 247.8 | 239.1 | 224.3 | 216.3 | 203.7 | 197.8 | 199.4 |
| 52.5° | 1166.4 | 690.6 | 343.7 | 240.3 | 233.1 | 222.9 | 217.1 | 207.3 | 192.0 | 182.3 | 182.1 |
| 55° | 1236.1 | 719.6 | 336.5 | 225.2 | 218.2 | 210.4 | 209.5 | 203.5 | 187.1 | 173.6 | 173.6 |
| 57.5° | 1302.1 | 743.8 | 318.5 | 209.9 | 203.3 | 198.5 | 204.6 | 201.6 | 181.0 | 163.8 | 162.9 |
| 60° | 1357.9 | 760.4 | 292.5 | 194.4 | 189.7 | 187.3 | 196.5 | 195.6 | 172.5 | 153.2 | 152.5 |
| 62.5° | 1402.4 | 766.9 | 263.8 | 179.7 | 178.6 | 174.0 | 185.3 | 185.3 | 161.7 | 142.9 | 142.2 |
| 65° | 1437.2 | 760.7 | 234.6 | 165.1 | 167.4 | 160.6 | 171.6 | 170.3 | 150.3 | 133.7 | 132.8 |
| 67.5° | 1467.9 | 739.9 | 202.3 | 150.8 | 155.9 | 147.4 | 157.2 | 154.1 | 137.8 | 124.5 | 123.6 |
| 70° | 1481.5 | 692.0 | 165.5 | 136.4 | 142.7 | 134.4 | 142.9 | 137.0 | 123.6 | 114.6 | 112.9 |
| 72.5° | 1371.7 | 575.1 | 130.3 | 121.4 | 126.7 | 120.0 | 127.4 | 120.6 | 108.3 | 104.3 | 101.0 |
| 75° | 1134.8 | 431.5 | 100.2 | 105.0 | 109.1 | 103.8 | 108.8 | 103.8 | 92.7 | 95.5 | 87.2 |
| 77.5° | 824.1 | 291.4 | 76.7 | 87.7 | 89.5 | 86.8 | 91.0 | 85.5 | 75.3 | 74.7 | 71.3 |
| 80° | 409.8 | 170.7 | 60.1 | 69.3 | 68.7 | 66.8 | 71.8 | 69.1 | 60.6 | 64.2 | 63.4 |
| 82.5° | 118.7 | 73.1 | 43.8 | 48.7 | 47.4 | 47.8 | 51.4 | 52.7 | 78.9 | 78.3 | 80.1 |
| 85° | 37.2 | 28.7 | 26.2 | 27.2 | 25.8 | 26.4 | 30.2 | 60.1 | 55.7 | 32.5 | 35.3 |
| 87.5° | 9.6 | 9.8 | 6.5 | 7.0 | 7.2 | 8.5 | 9.6 | 36.6 | 17.5 | 11.5 | 12.1 |
| 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)