

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: P960798

Luminaire Tested: **NVN-SB1D-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1D-722-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8602.8 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

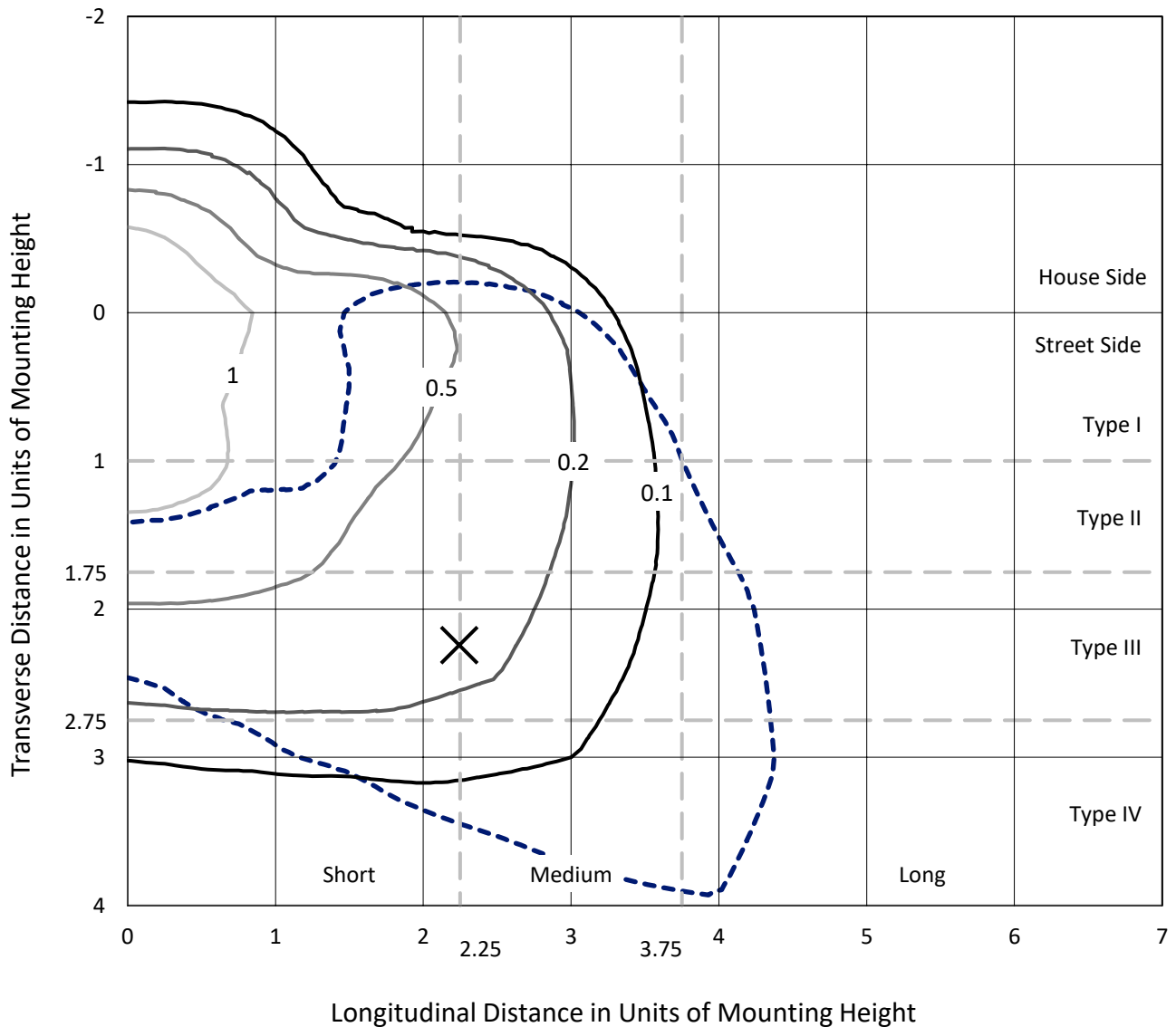
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

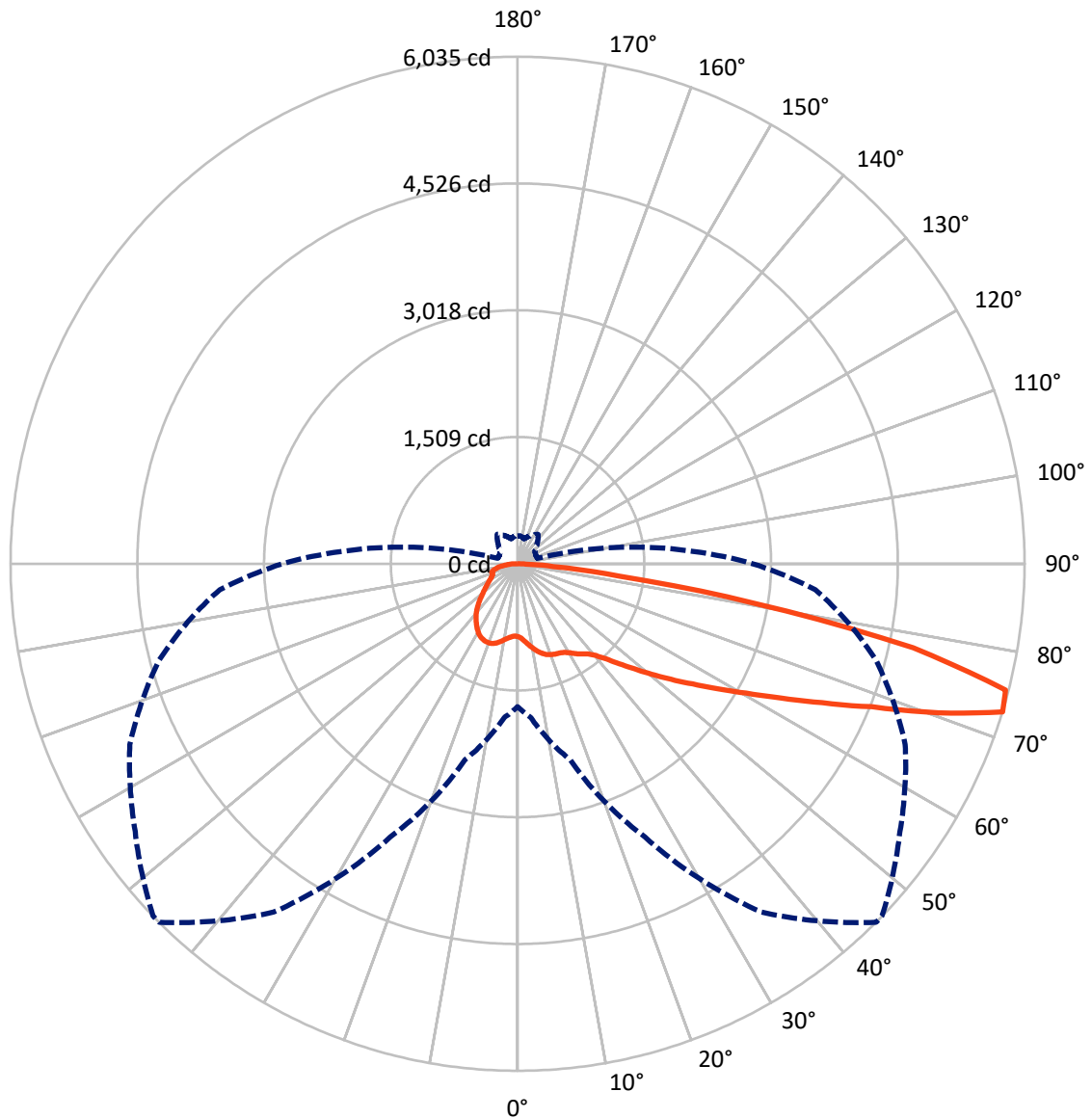
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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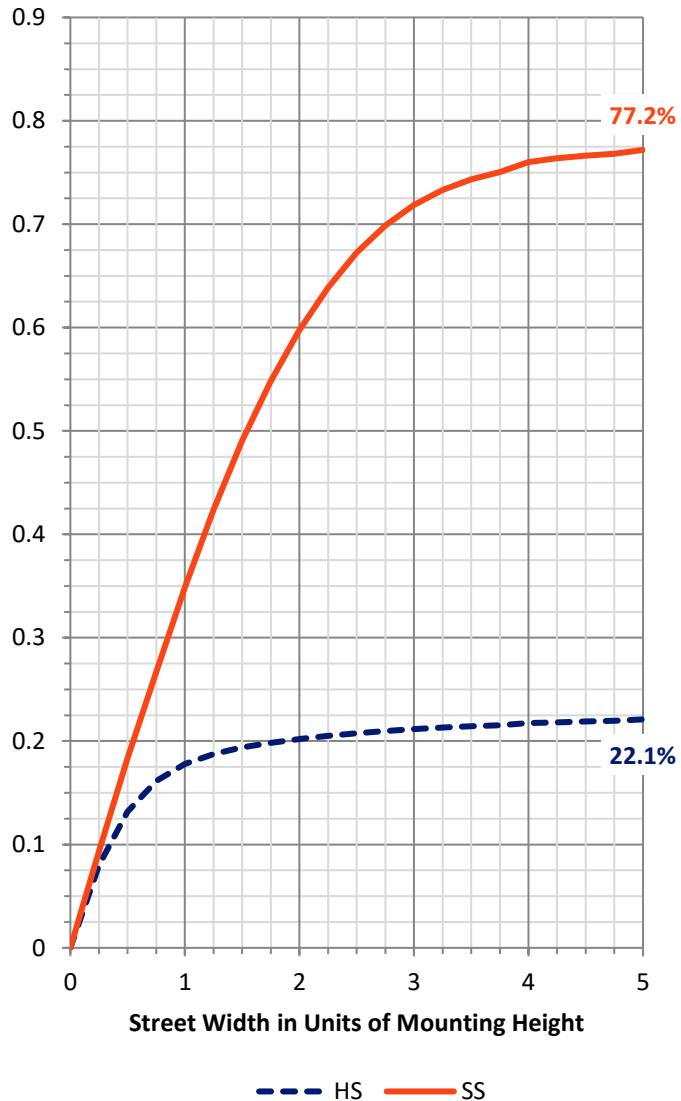
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1944.8 | 0.0 | 1944.8 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 6658.0 | 0.0 | 6658.0 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 8602.8 | 0.0 | 8602.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 88.3 | 1.0 |
| 10°-20° | 294.5 | 3.4 |
| 20°-30° | 512.3 | 6.0 |
| 30°-40° | 734.4 | 8.5 |
| 40°-50° | 1034.1 | 12.0 |
| 50°-60° | 1584.0 | 18.4 |
| 60°-70° | 2294.6 | 26.7 |
| 70°-80° | 1832.4 | 21.3 |
| 80°-90° | 228.2 | 2.7 |
| 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° | 8602.8 | 100.0 |
| 0°-180° | 8602.8 | 100.0 |

Coefficient of Utilization



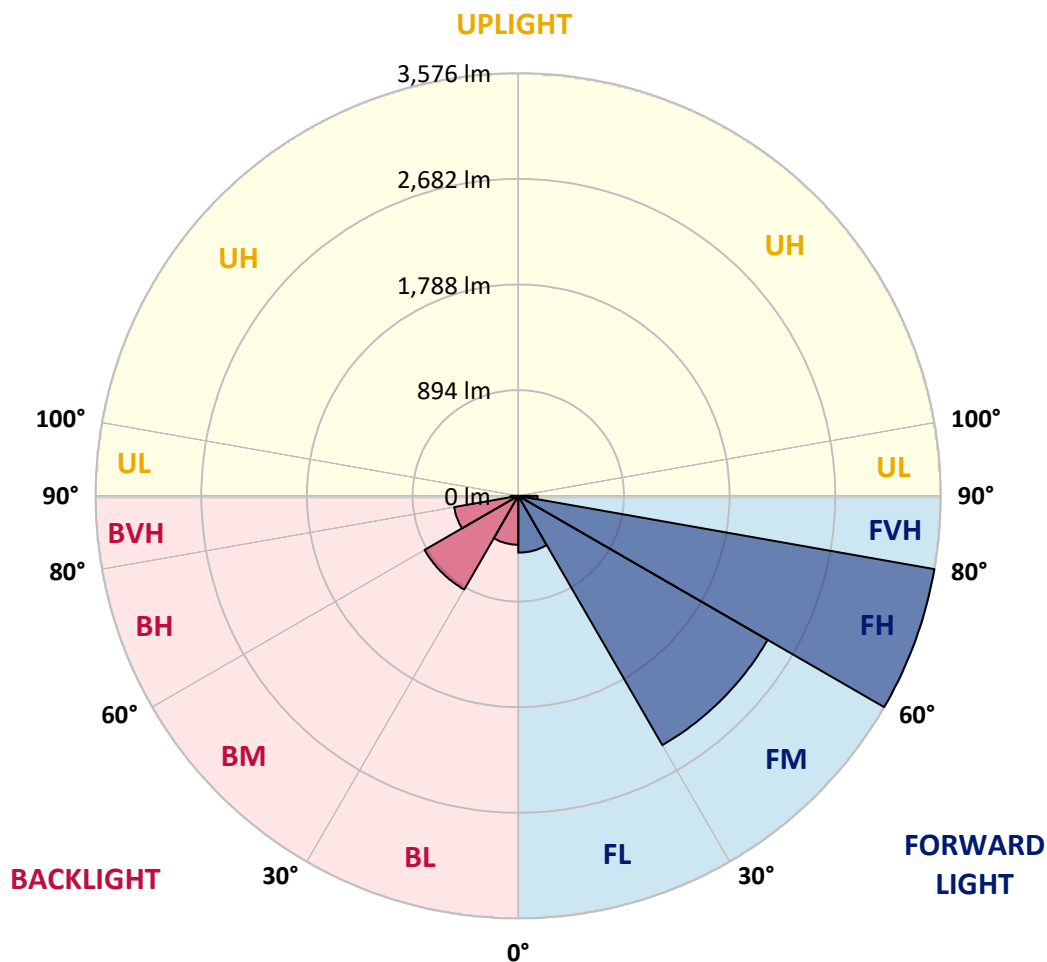
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 481.1 | 5.6 | | | |
| FM (30°-60°) | 2436.8 | 28.3 | | | |
| FH (60°-80°) | 3576.4 | 41.6 | | | G2/5000 |
| FVH (80°-90°) | 163.7 | 1.9 | | | G2/225 |
| BL (0°-30°) | 414.1 | 4.8 | B1/500 | | |
| BM (30°-60°) | 915.7 | 10.6 | B1/1000 | | |
| BH (60°-80°) | 550.5 | 6.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 64.5 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 867.9 | 867.9 | 867.9 | 867.9 | 867.9 | 867.9 | 867.9 | 867.9 | 867.9 | 867.9 | 867.9 |
| 2.5° | 901.9 | 907.7 | 902.3 | 897.3 | 895.0 | 889.2 | 888.7 | 885.1 | 882.8 | 876.5 | 874.6 |
| 5° | 964.8 | 972.5 | 963.5 | 953.6 | 944.4 | 930.0 | 928.1 | 917.7 | 905.9 | 892.4 | 884.6 |
| 7.5° | 1036.0 | 1042.8 | 1032.4 | 1017.4 | 1001.5 | 977.5 | 977.0 | 958.1 | 939.4 | 916.4 | 903.2 |
| 10° | 1098.1 | 1107.1 | 1093.1 | 1072.7 | 1052.8 | 1025.6 | 1022.4 | 1000.6 | 977.0 | 947.2 | 927.2 |
| 12.5° | 1152.9 | 1159.3 | 1145.6 | 1120.7 | 1097.7 | 1070.4 | 1066.3 | 1042.3 | 1016.1 | 982.1 | 956.6 |
| 15° | 1196.4 | 1204.6 | 1186.4 | 1159.7 | 1135.3 | 1108.5 | 1104.8 | 1083.1 | 1056.9 | 1021.0 | 988.4 |
| 17.5° | 1225.0 | 1231.7 | 1213.2 | 1183.3 | 1159.7 | 1137.5 | 1134.8 | 1116.6 | 1093.6 | 1057.3 | 1022.4 |
| 20° | 1235.8 | 1243.1 | 1223.6 | 1193.2 | 1171.5 | 1154.3 | 1152.9 | 1139.8 | 1123.9 | 1090.8 | 1055.4 |
| 22.5° | 1246.7 | 1253.5 | 1228.2 | 1196.4 | 1177.4 | 1166.6 | 1166.0 | 1157.4 | 1151.1 | 1123.9 | 1089.5 |
| 25° | 1290.7 | 1292.5 | 1258.5 | 1212.8 | 1185.5 | 1176.0 | 1175.6 | 1175.2 | 1177.8 | 1156.5 | 1126.2 |
| 27.5° | 1328.7 | 1328.3 | 1299.3 | 1256.2 | 1214.1 | 1194.1 | 1193.7 | 1198.2 | 1206.8 | 1189.2 | 1164.2 |
| 30° | 1384.5 | 1379.5 | 1345.1 | 1300.2 | 1261.7 | 1230.8 | 1228.2 | 1224.1 | 1230.8 | 1216.8 | 1202.3 |
| 32.5° | 1502.8 | 1486.9 | 1431.2 | 1351.4 | 1301.1 | 1277.6 | 1273.9 | 1248.6 | 1251.2 | 1242.6 | 1235.4 |
| 35° | 1672.3 | 1651.4 | 1577.1 | 1448.4 | 1350.0 | 1316.5 | 1314.7 | 1282.5 | 1277.0 | 1269.4 | 1272.1 |
| 37.5° | 1873.9 | 1848.1 | 1761.6 | 1588.9 | 1434.4 | 1361.8 | 1359.1 | 1330.1 | 1307.9 | 1299.7 | 1315.2 |
| 40° | 2076.5 | 2043.8 | 1972.3 | 1760.2 | 1558.5 | 1437.6 | 1429.0 | 1385.0 | 1359.6 | 1345.9 | 1378.6 |
| 42.5° | 2273.2 | 2246.0 | 2184.8 | 1952.3 | 1711.6 | 1548.1 | 1529.1 | 1453.9 | 1434.8 | 1422.1 | 1481.0 |
| 45° | 2447.2 | 2422.8 | 2377.9 | 2157.6 | 1891.1 | 1698.5 | 1680.0 | 1557.2 | 1551.2 | 1551.2 | 1636.5 |
| 47.5° | 2588.6 | 2583.2 | 2535.6 | 2367.0 | 2102.8 | 1869.9 | 1837.7 | 1700.8 | 1716.7 | 1741.2 | 1857.2 |
| 50° | 2745.5 | 2730.5 | 2679.7 | 2573.2 | 2351.6 | 2066.1 | 2039.9 | 1877.1 | 1936.4 | 2003.6 | 2176.2 |
| 52.5° | 2889.6 | 2897.7 | 2841.1 | 2788.0 | 2632.6 | 2284.9 | 2238.8 | 2085.2 | 2213.4 | 2324.4 | 2550.1 |
| 55° | 3037.7 | 3038.2 | 3022.3 | 3015.0 | 2927.2 | 2527.0 | 2476.2 | 2335.3 | 2539.2 | 2677.0 | 2986.0 |
| 57.5° | 3176.9 | 3177.8 | 3201.3 | 3265.2 | 3268.8 | 2806.1 | 2748.6 | 2642.6 | 2901.4 | 3041.8 | 3435.6 |
| 60° | 3301.0 | 3307.4 | 3371.7 | 3521.3 | 3569.4 | 3126.1 | 3071.7 | 3005.5 | 3275.7 | 3417.0 | 3908.3 |
| 62.5° | 3342.7 | 3365.8 | 3509.1 | 3721.6 | 3866.2 | 3518.5 | 3465.1 | 3425.7 | 3669.0 | 3800.5 | 4303.5 |
| 65° | 3272.0 | 3325.1 | 3602.0 | 3887.0 | 4171.6 | 3984.9 | 3931.9 | 3888.8 | 4077.8 | 4201.5 | 4628.0 |
| 67.5° | 3098.5 | 3166.8 | 3596.5 | 4060.5 | 4542.3 | 4546.0 | 4496.6 | 4395.5 | 4516.0 | 4563.6 | 4733.6 |
| 70° | 2641.2 | 2743.6 | 3279.7 | 4125.4 | 4967.9 | 5313.2 | 5265.6 | 5005.5 | 4953.3 | 4723.1 | 4436.3 |
| 72.5° | 1701.7 | 1839.5 | 2415.0 | 3592.0 | 5062.6 | 6035.1 | 6032.4 | 5556.1 | 5091.6 | 4413.1 | 3558.0 |
| 75° | 620.8 | 705.2 | 1122.1 | 2254.6 | 4249.5 | 5998.4 | 6016.1 | 5461.8 | 4647.9 | 3408.8 | 2216.6 |
| 77.5° | 226.1 | 247.4 | 366.1 | 866.5 | 2613.5 | 4812.9 | 4849.6 | 4366.5 | 3308.3 | 1710.8 | 878.3 |
| 80° | 118.7 | 130.5 | 187.6 | 336.3 | 1119.8 | 2858.3 | 2915.8 | 2595.0 | 1554.9 | 515.3 | 263.3 |
| 82.5° | 65.7 | 71.1 | 105.2 | 182.7 | 504.4 | 1222.2 | 1256.6 | 1025.1 | 547.0 | 218.4 | 108.8 |
| 85° | 35.4 | 37.6 | 49.4 | 99.7 | 246.5 | 423.7 | 433.3 | 306.4 | 218.0 | 128.2 | 52.6 |
| 87.5° | 10.5 | 12.7 | 16.3 | 31.7 | 96.6 | 95.1 | 97.5 | 60.7 | 86.1 | 64.8 | 17.2 |
| 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° | 867.9 | 867.9 | 867.9 | 867.9 | 867.9 | 867.9 | 867.9 | 867.9 | 867.9 | 867.9 | 867.9 |
| 2.5° | 872.0 | 870.5 | 865.6 | 863.4 | 860.6 | 860.2 | 862.4 | 862.8 | 863.4 | 863.8 | 865.6 |
| 5° | 880.1 | 875.6 | 871.0 | 868.3 | 869.2 | 869.7 | 874.2 | 877.4 | 879.7 | 881.5 | 882.3 |
| 7.5° | 896.0 | 892.4 | 884.6 | 884.2 | 885.5 | 889.6 | 895.5 | 902.7 | 906.8 | 910.0 | 910.9 |
| 10° | 919.5 | 912.8 | 903.6 | 905.0 | 907.7 | 913.6 | 925.9 | 931.7 | 938.6 | 944.4 | 943.1 |
| 12.5° | 943.5 | 937.7 | 927.2 | 928.1 | 932.6 | 943.1 | 954.9 | 962.2 | 966.7 | 971.2 | 973.0 |
| 15° | 974.8 | 964.4 | 953.0 | 953.0 | 961.2 | 972.5 | 978.0 | 983.9 | 986.6 | 991.6 | 993.4 |
| 17.5° | 1007.0 | 993.4 | 978.5 | 977.5 | 987.5 | 992.9 | 996.1 | 997.0 | 997.9 | 1003.4 | 1005.2 |
| 20° | 1039.1 | 1024.2 | 1002.9 | 1001.1 | 1003.4 | 1002.4 | 1002.0 | 1001.1 | 1002.4 | 1009.2 | 1012.0 |
| 22.5° | 1070.9 | 1053.7 | 1024.2 | 1016.1 | 1009.7 | 1001.1 | 1000.6 | 1000.2 | 1001.1 | 1007.9 | 1012.4 |
| 25° | 1108.0 | 1087.2 | 1047.8 | 1023.3 | 1002.0 | 990.3 | 991.6 | 992.0 | 992.9 | 998.4 | 1005.6 |
| 27.5° | 1148.4 | 1125.2 | 1069.5 | 1021.0 | 982.6 | 974.4 | 972.1 | 973.4 | 976.6 | 985.2 | 993.8 |
| 30° | 1188.7 | 1161.5 | 1089.5 | 1012.0 | 958.1 | 946.7 | 939.4 | 942.6 | 952.6 | 961.2 | 970.8 |
| 32.5° | 1225.4 | 1198.2 | 1105.4 | 992.0 | 926.8 | 909.1 | 899.5 | 903.6 | 913.6 | 916.8 | 928.1 |
| 35° | 1268.4 | 1237.7 | 1112.1 | 960.3 | 892.8 | 865.6 | 852.9 | 847.1 | 852.0 | 848.8 | 858.7 |
| 37.5° | 1316.5 | 1284.3 | 1111.2 | 918.6 | 852.9 | 821.6 | 803.9 | 781.8 | 771.3 | 760.4 | 767.2 |
| 40° | 1387.6 | 1341.4 | 1100.3 | 868.3 | 803.5 | 775.0 | 743.2 | 705.6 | 682.0 | 660.7 | 662.2 |
| 42.5° | 1484.6 | 1420.8 | 1080.5 | 813.0 | 747.7 | 721.0 | 677.9 | 634.0 | 596.9 | 561.5 | 558.3 |
| 45° | 1629.2 | 1524.5 | 1055.4 | 754.1 | 687.5 | 661.2 | 614.5 | 565.1 | 523.0 | 477.6 | 472.2 |
| 47.5° | 1837.7 | 1664.1 | 1031.9 | 687.1 | 624.0 | 600.0 | 557.9 | 512.1 | 462.3 | 418.3 | 413.3 |
| 50° | 2124.1 | 1864.4 | 1010.1 | 621.8 | 561.5 | 543.4 | 509.8 | 463.2 | 412.9 | 377.5 | 375.3 |
| 52.5° | 2488.5 | 2136.8 | 1001.1 | 558.8 | 503.1 | 496.2 | 469.6 | 426.0 | 378.4 | 348.5 | 346.2 |
| 55° | 2906.8 | 2462.7 | 1001.1 | 498.5 | 451.8 | 454.1 | 435.5 | 395.1 | 353.9 | 327.2 | 324.5 |
| 57.5° | 3333.7 | 2792.5 | 983.0 | 442.8 | 408.4 | 417.8 | 406.1 | 370.7 | 333.5 | 305.9 | 301.3 |
| 60° | 3727.0 | 3069.0 | 909.6 | 392.0 | 369.8 | 384.8 | 377.1 | 346.7 | 301.3 | 278.3 | 274.6 |
| 62.5° | 4029.3 | 3224.9 | 768.1 | 351.7 | 338.0 | 355.3 | 351.3 | 315.0 | 295.5 | 286.0 | 282.8 |
| 65° | 4180.7 | 3199.5 | 587.3 | 315.9 | 311.3 | 338.0 | 329.4 | 328.1 | 312.7 | 301.9 | 298.2 |
| 67.5° | 4087.8 | 2981.1 | 426.0 | 289.6 | 295.9 | 322.3 | 355.3 | 360.7 | 332.2 | 310.9 | 307.3 |
| 70° | 3680.4 | 2585.9 | 317.2 | 264.7 | 276.4 | 322.7 | 405.2 | 377.5 | 325.8 | 300.9 | 296.8 |
| 72.5° | 2799.8 | 1928.3 | 246.1 | 238.4 | 251.0 | 324.9 | 427.3 | 369.8 | 307.7 | 332.6 | 329.9 |
| 75° | 1601.2 | 1058.6 | 197.6 | 206.2 | 219.4 | 303.6 | 416.0 | 349.8 | 293.7 | 305.4 | 305.4 |
| 77.5° | 610.5 | 406.9 | 163.2 | 174.5 | 176.3 | 265.1 | 397.9 | 348.5 | 279.6 | 272.9 | 248.8 |
| 80° | 211.7 | 159.1 | 135.1 | 138.7 | 136.4 | 235.6 | 381.6 | 303.2 | 228.9 | 204.8 | 198.0 |
| 82.5° | 86.5 | 79.3 | 106.9 | 102.4 | 97.0 | 183.1 | 308.2 | 247.8 | 187.2 | 165.4 | 163.6 |
| 85° | 37.6 | 50.3 | 70.7 | 62.1 | 56.2 | 126.9 | 247.0 | 209.8 | 158.2 | 136.4 | 135.9 |
| 87.5° | 7.7 | 19.1 | 29.9 | 28.1 | 29.0 | 84.8 | 175.4 | 149.1 | 111.9 | 83.8 | 65.7 |
| 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)