

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: P959360

Luminaire Tested: **NVN-SB1A-750-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1A-750-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4120.5 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

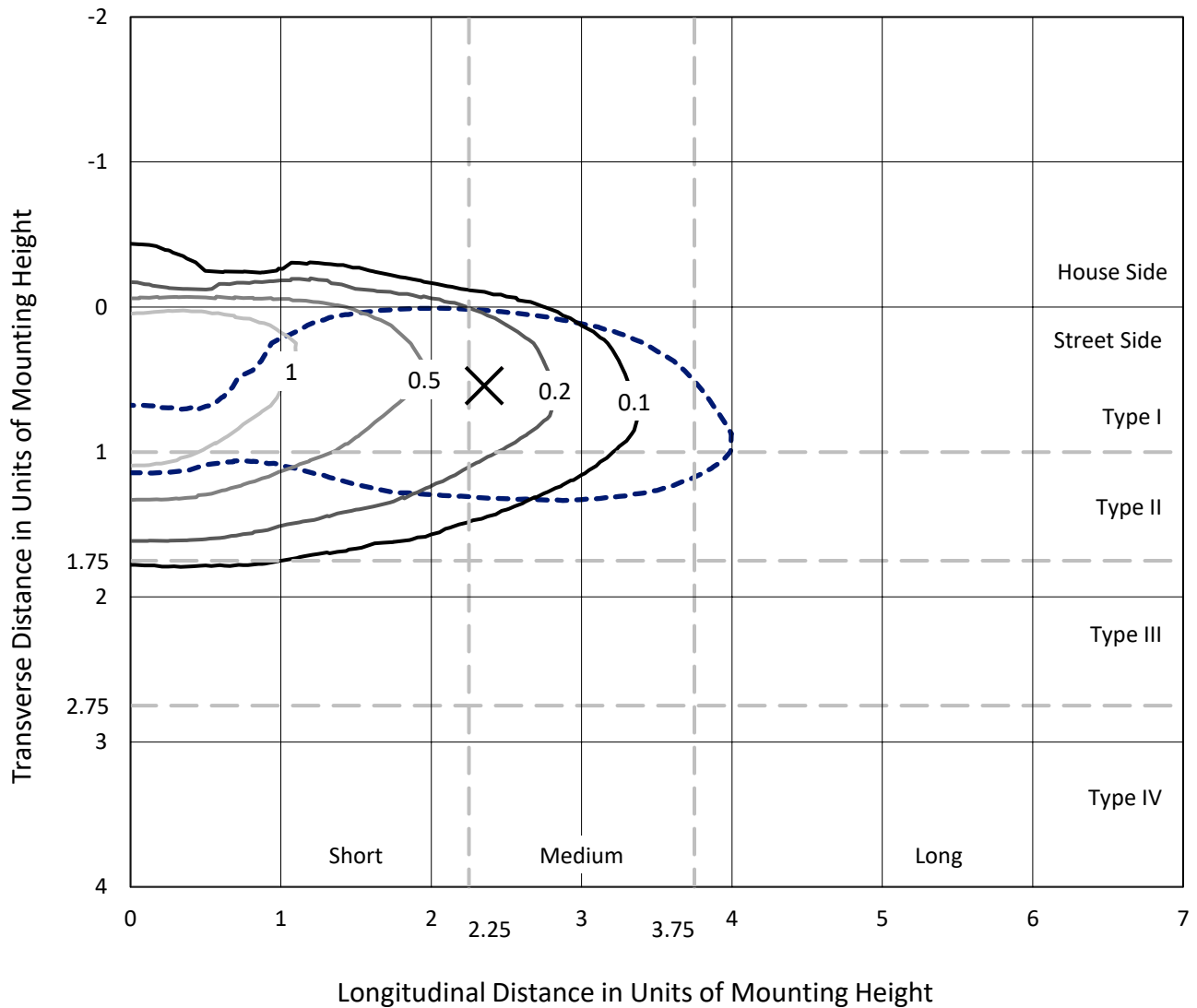
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

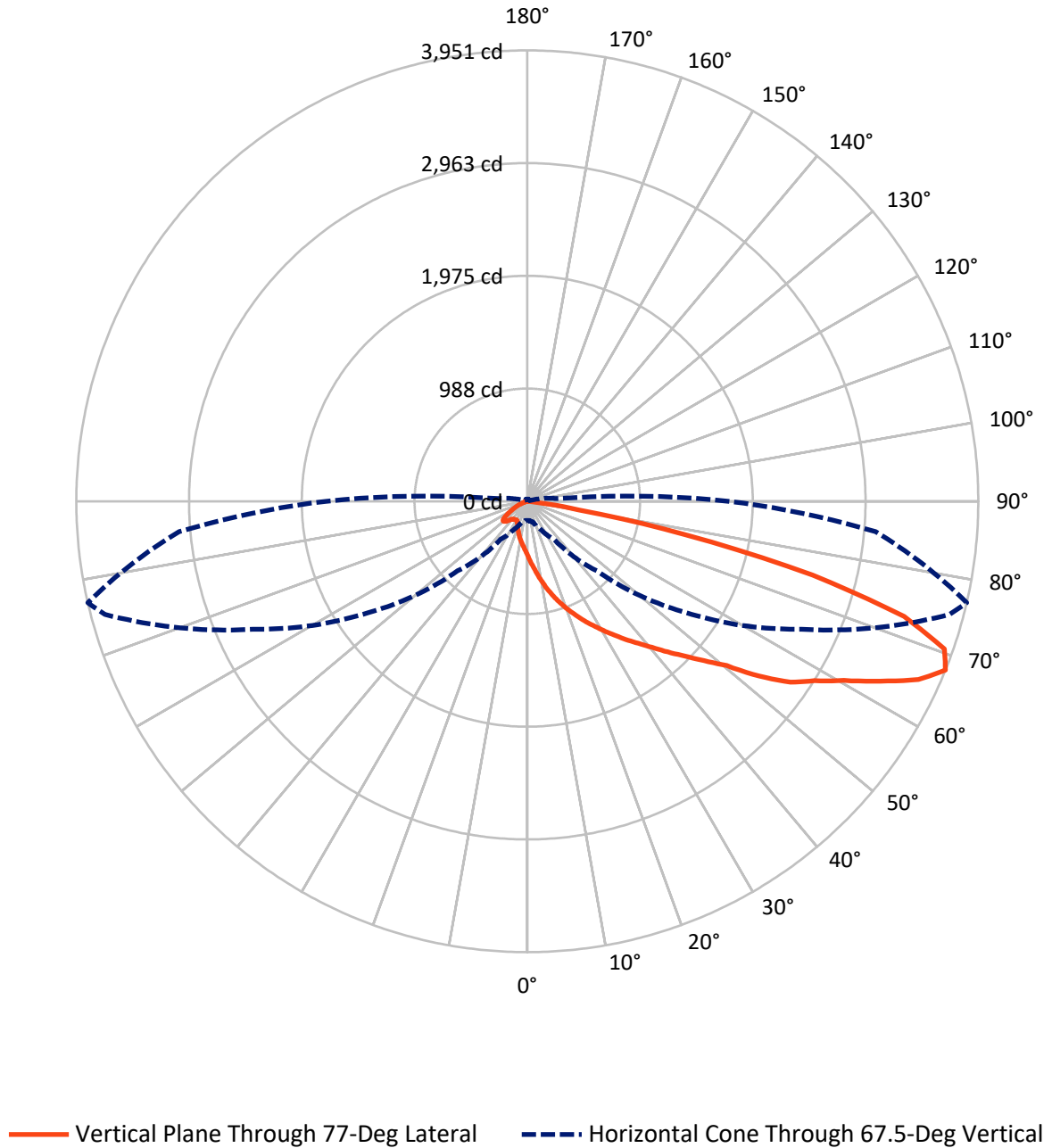
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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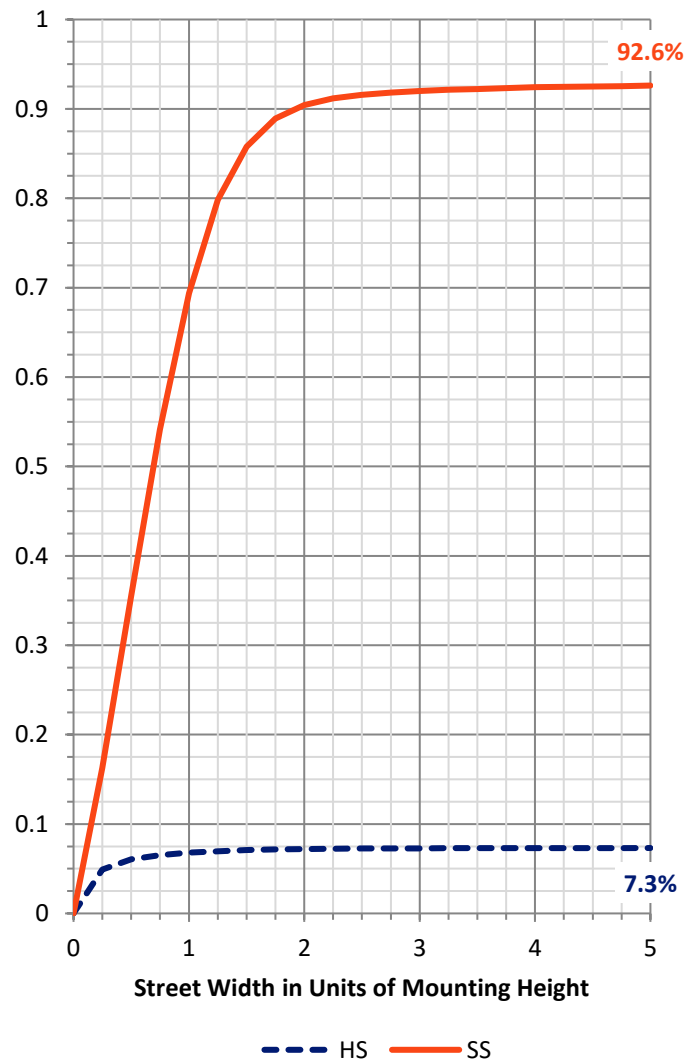
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 303.1 | 0.0 | 303.1 |
| | % Fixture | 7.4 | 0.0 | 7.4 |
| Street Side | Lumens | 3817.3 | 0.0 | 3817.3 |
| | % Fixture | 92.6 | 0.0 | 92.6 |
| Total | Lumens | 4120.5 | 0.0 | 4120.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 48.5 | 1.2 |
| 10°-20° | 169.8 | 4.1 |
| 20°-30° | 327.7 | 8.0 |
| 30°-40° | 569.0 | 13.8 |
| 40°-50° | 826.1 | 20.0 |
| 50°-60° | 948.7 | 23.0 |
| 60°-70° | 823.6 | 20.0 |
| 70°-80° | 387.9 | 9.4 |
| 80°-90° | 19.2 | 0.5 |
| 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° | 4120.5 | 100.0 |
| 0°-180° | 4120.5 | 100.0 |

Coefficient of Utilization



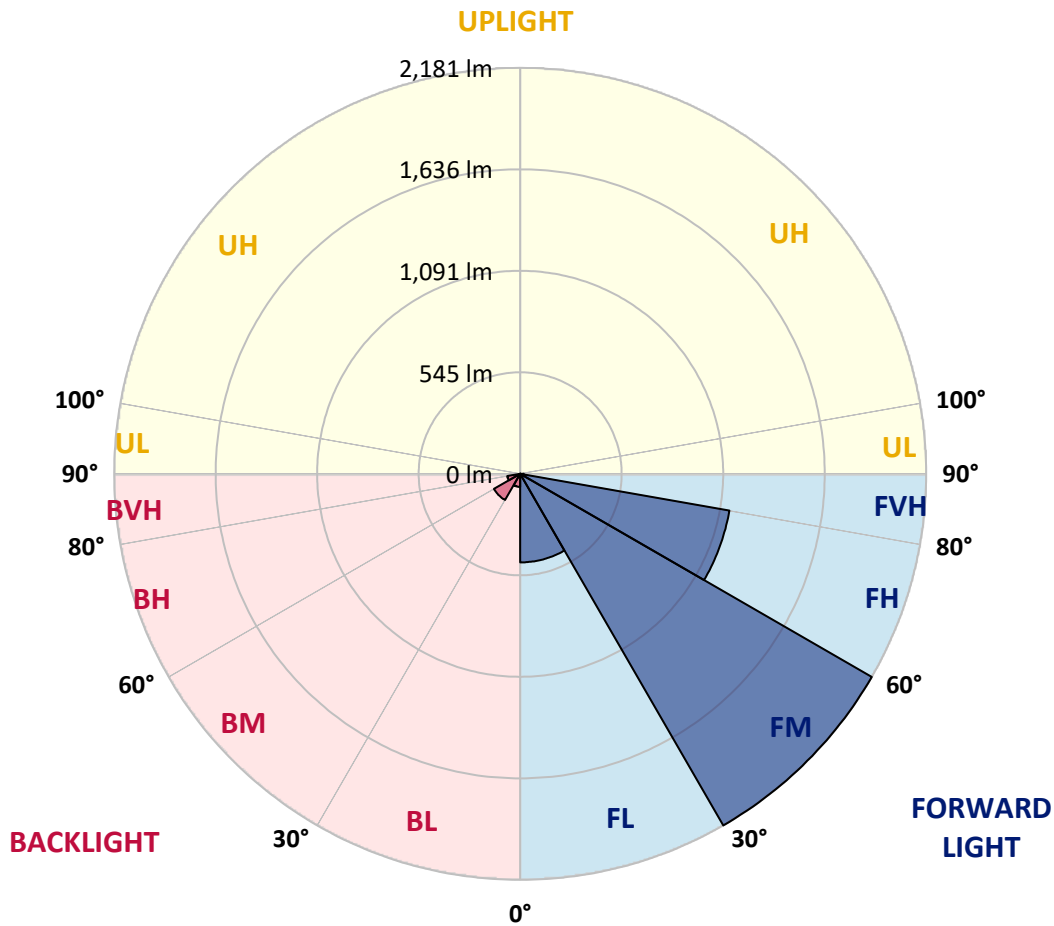
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 475.9 | 11.5 | | | |
| FM (30°-60°) | 2181.3 | 52.9 | | | |
| FH (60°-80°) | 1141.4 | 27.7 | | | G1/1800 |
| FVH (80°-90°) | 18.8 | 0.5 | | | G1/100 |
| BL (0°-30°) | 70.2 | 1.7 | B0/110 | | |
| BM (30°-60°) | 162.4 | 3.9 | B0/220 | | |
| BH (60°-80°) | 70.2 | 1.7 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 475.2 | 475.2 | 475.2 | 475.2 | 475.2 | 475.2 | 475.2 | 475.2 | 475.2 | 475.2 | 475.2 |
| 2.5° | 657.8 | 661.9 | 656.1 | 644.8 | 627.9 | 616.9 | 590.0 | 564.7 | 536.6 | 527.6 | 499.5 |
| 5° | 801.9 | 805.4 | 798.8 | 786.6 | 764.0 | 742.5 | 707.2 | 654.3 | 599.2 | 581.6 | 531.7 |
| 7.5° | 908.6 | 910.6 | 908.0 | 896.9 | 875.4 | 851.1 | 811.6 | 749.0 | 667.3 | 647.9 | 571.3 |
| 10° | 985.3 | 992.0 | 991.3 | 986.9 | 972.5 | 952.8 | 910.9 | 839.5 | 743.5 | 718.5 | 616.1 |
| 12.5° | 1036.3 | 1043.7 | 1048.1 | 1057.8 | 1057.0 | 1044.5 | 1007.6 | 932.1 | 819.6 | 790.2 | 666.6 |
| 15° | 1051.1 | 1059.0 | 1075.6 | 1098.2 | 1118.2 | 1124.5 | 1098.7 | 1023.0 | 903.2 | 865.6 | 718.2 |
| 17.5° | 1042.6 | 1054.9 | 1074.9 | 1110.5 | 1154.3 | 1183.2 | 1180.3 | 1110.7 | 979.2 | 936.2 | 768.9 |
| 20° | 1061.4 | 1073.2 | 1088.8 | 1118.7 | 1169.6 | 1222.0 | 1243.0 | 1194.6 | 1054.7 | 1009.6 | 822.2 |
| 22.5° | 1164.7 | 1162.7 | 1164.2 | 1169.1 | 1199.6 | 1251.4 | 1294.7 | 1270.9 | 1129.4 | 1083.3 | 878.4 |
| 25° | 1328.5 | 1319.3 | 1303.7 | 1277.4 | 1269.7 | 1294.7 | 1339.8 | 1338.4 | 1208.3 | 1158.9 | 936.0 |
| 27.5° | 1516.3 | 1514.7 | 1478.2 | 1414.7 | 1378.9 | 1369.2 | 1390.6 | 1404.2 | 1286.3 | 1233.6 | 993.8 |
| 30° | 1696.2 | 1700.3 | 1650.9 | 1580.2 | 1514.5 | 1476.4 | 1456.9 | 1466.7 | 1365.6 | 1314.2 | 1053.4 |
| 32.5° | 1852.8 | 1857.1 | 1803.4 | 1720.8 | 1639.4 | 1593.4 | 1552.4 | 1528.3 | 1452.1 | 1396.0 | 1118.9 |
| 35° | 1985.0 | 1989.4 | 1927.7 | 1836.4 | 1749.7 | 1708.0 | 1661.6 | 1595.8 | 1539.0 | 1486.9 | 1191.9 |
| 37.5° | 2103.3 | 2102.0 | 2019.4 | 1927.2 | 1842.0 | 1809.0 | 1784.7 | 1679.1 | 1628.6 | 1578.2 | 1272.7 |
| 40° | 2173.1 | 2178.5 | 2107.9 | 2006.3 | 1923.6 | 1899.6 | 1898.1 | 1782.2 | 1732.0 | 1683.2 | 1361.2 |
| 42.5° | 2193.6 | 2203.0 | 2151.9 | 2068.4 | 1993.5 | 1967.4 | 2007.6 | 1893.7 | 1852.3 | 1804.6 | 1461.2 |
| 45° | 2156.7 | 2165.9 | 2142.7 | 2084.8 | 2041.1 | 2024.2 | 2101.8 | 2009.4 | 1980.7 | 1933.7 | 1574.1 |
| 47.5° | 2049.3 | 2060.8 | 2066.4 | 2054.1 | 2053.6 | 2070.8 | 2186.1 | 2131.2 | 2133.2 | 2085.1 | 1704.9 |
| 50° | 1841.2 | 1860.7 | 1912.3 | 1955.9 | 2023.1 | 2107.6 | 2268.3 | 2263.2 | 2305.1 | 2263.7 | 1875.2 |
| 52.5° | 1463.1 | 1490.8 | 1668.8 | 1787.8 | 1939.0 | 2100.7 | 2358.6 | 2475.1 | 2606.8 | 2546.2 | 2115.6 |
| 55° | 1175.8 | 1175.8 | 1320.5 | 1543.1 | 1774.7 | 2055.1 | 2398.0 | 2612.7 | 2812.3 | 2797.9 | 2284.7 |
| 57.5° | 958.5 | 970.1 | 1062.4 | 1259.1 | 1537.0 | 1946.7 | 2422.4 | 2699.2 | 2977.8 | 2967.4 | 2450.0 |
| 60° | 591.5 | 616.4 | 790.9 | 985.1 | 1266.6 | 1753.5 | 2407.0 | 2786.7 | 3178.7 | 3187.1 | 2649.0 |
| 62.5° | 333.1 | 342.3 | 420.1 | 708.8 | 984.8 | 1493.7 | 2289.5 | 2835.6 | 3435.6 | 3471.4 | 2854.2 |
| 65° | 230.0 | 234.6 | 264.6 | 441.2 | 682.6 | 1189.3 | 2060.0 | 2805.1 | 3693.0 | 3765.4 | 3028.3 |
| 67.5° | 167.1 | 169.4 | 188.1 | 269.5 | 405.1 | 862.3 | 1700.3 | 2651.6 | 3829.4 | 3950.5 | 3061.5 |
| 70° | 128.4 | 130.0 | 143.5 | 177.0 | 239.2 | 532.2 | 1234.8 | 2346.3 | 3730.6 | 3875.2 | 2891.1 |
| 72.5° | 104.3 | 105.9 | 116.4 | 131.0 | 158.7 | 314.7 | 748.5 | 1905.5 | 3294.7 | 3450.7 | 2461.2 |
| 75° | 88.0 | 90.1 | 99.5 | 109.0 | 124.3 | 202.1 | 351.1 | 1327.0 | 2477.6 | 2579.9 | 1711.5 |
| 77.5° | 48.9 | 45.0 | 80.9 | 90.3 | 104.9 | 127.9 | 164.3 | 780.9 | 1387.5 | 1416.0 | 759.4 |
| 80° | 30.4 | 31.5 | 64.3 | 72.7 | 80.6 | 64.5 | 75.2 | 300.6 | 481.0 | 456.9 | 147.1 |
| 82.5° | 1.7 | 4.1 | 49.4 | 52.5 | 55.2 | 27.7 | 28.4 | 102.1 | 115.9 | 106.4 | 26.1 |
| 85° | 0.0 | 0.0 | 22.5 | 18.1 | 19.2 | 7.9 | 8.2 | 23.8 | 15.6 | 16.9 | 5.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.7 | 1.5 | 2.0 | 0.7 | 1.0 | 1.7 |
| 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° | 475.2 | 475.2 | 475.2 | 475.2 | 475.2 | 475.2 | 475.2 | 475.2 | 475.2 | 475.2 | 475.2 |
| 2.5° | 481.5 | 463.6 | 427.3 | 391.8 | 362.8 | 336.0 | 316.7 | 298.6 | 289.4 | 288.8 | 288.3 |
| 5° | 496.1 | 458.5 | 385.8 | 321.6 | 270.0 | 228.5 | 201.6 | 182.4 | 172.7 | 169.4 | 168.9 |
| 7.5° | 516.6 | 460.0 | 349.5 | 260.2 | 199.4 | 163.8 | 148.4 | 142.3 | 140.2 | 138.0 | 137.5 |
| 10° | 542.4 | 463.6 | 317.0 | 209.5 | 157.1 | 139.2 | 133.0 | 130.5 | 128.9 | 127.4 | 126.9 |
| 12.5° | 571.3 | 467.0 | 284.7 | 173.9 | 138.2 | 128.9 | 124.6 | 121.6 | 119.5 | 117.7 | 117.2 |
| 15° | 599.5 | 469.0 | 251.2 | 149.1 | 128.4 | 121.1 | 116.4 | 113.1 | 110.3 | 108.2 | 107.9 |
| 17.5° | 627.4 | 471.8 | 219.8 | 134.4 | 120.5 | 113.1 | 108.4 | 104.3 | 102.1 | 99.8 | 99.5 |
| 20° | 658.4 | 471.3 | 190.1 | 123.8 | 112.5 | 105.2 | 100.3 | 96.5 | 94.2 | 91.6 | 91.3 |
| 22.5° | 687.1 | 468.7 | 164.0 | 114.9 | 104.3 | 97.3 | 91.8 | 88.0 | 85.7 | 83.6 | 83.4 |
| 25° | 720.1 | 466.7 | 142.3 | 106.7 | 96.8 | 89.6 | 83.6 | 80.1 | 77.5 | 75.7 | 75.4 |
| 27.5° | 751.7 | 463.6 | 126.4 | 99.3 | 89.3 | 82.4 | 76.8 | 72.7 | 70.3 | 69.1 | 69.1 |
| 30° | 783.0 | 462.9 | 120.5 | 92.1 | 82.6 | 75.7 | 70.1 | 66.3 | 64.5 | 64.0 | 63.8 |
| 32.5° | 820.6 | 464.9 | 123.1 | 89.6 | 76.5 | 69.6 | 64.3 | 61.4 | 59.7 | 59.7 | 59.7 |
| 35° | 860.8 | 464.4 | 126.9 | 91.8 | 72.4 | 63.4 | 59.3 | 57.6 | 55.8 | 55.8 | 55.8 |
| 37.5° | 911.1 | 465.1 | 130.0 | 95.7 | 70.8 | 58.3 | 56.1 | 53.7 | 52.7 | 52.7 | 52.7 |
| 40° | 986.4 | 490.5 | 128.4 | 99.0 | 70.3 | 54.7 | 50.1 | 49.4 | 48.6 | 48.6 | 48.6 |
| 42.5° | 1078.5 | 545.5 | 130.5 | 99.3 | 70.1 | 52.2 | 46.0 | 47.6 | 45.8 | 45.5 | 45.3 |
| 45° | 1179.4 | 605.7 | 143.5 | 93.9 | 69.8 | 50.9 | 44.0 | 45.8 | 42.9 | 42.9 | 42.9 |
| 47.5° | 1279.4 | 665.2 | 156.8 | 86.2 | 69.1 | 50.6 | 42.2 | 41.2 | 40.4 | 40.7 | 40.7 |
| 50° | 1417.3 | 713.9 | 162.0 | 75.7 | 67.3 | 50.1 | 38.8 | 39.2 | 38.6 | 39.2 | 39.2 |
| 52.5° | 1567.4 | 724.2 | 155.8 | 64.0 | 62.2 | 48.6 | 36.6 | 37.6 | 37.3 | 37.8 | 37.8 |
| 55° | 1661.1 | 713.1 | 128.7 | 53.2 | 54.2 | 42.4 | 34.3 | 36.3 | 36.3 | 36.3 | 36.3 |
| 57.5° | 1757.9 | 666.2 | 91.3 | 43.3 | 45.0 | 34.7 | 32.3 | 35.1 | 34.7 | 34.5 | 34.5 |
| 60° | 1827.5 | 590.5 | 60.2 | 35.6 | 35.8 | 28.7 | 29.9 | 33.0 | 32.8 | 31.5 | 31.5 |
| 62.5° | 1879.3 | 506.9 | 38.6 | 30.2 | 27.4 | 25.8 | 27.4 | 29.9 | 28.9 | 26.1 | 25.6 |
| 65° | 1873.5 | 390.9 | 29.7 | 25.8 | 22.5 | 22.5 | 23.8 | 26.1 | 23.1 | 18.4 | 17.9 |
| 67.5° | 1764.2 | 264.6 | 24.6 | 21.7 | 19.0 | 18.7 | 19.7 | 21.7 | 19.7 | 15.6 | 15.1 |
| 70° | 1569.0 | 173.0 | 19.7 | 16.9 | 15.1 | 13.8 | 15.9 | 18.7 | 16.6 | 12.5 | 12.0 |
| 72.5° | 1273.5 | 105.4 | 14.9 | 12.3 | 11.0 | 8.9 | 12.5 | 15.4 | 13.3 | 9.2 | 8.7 |
| 75° | 823.9 | 53.7 | 10.2 | 7.9 | 5.8 | 5.3 | 9.2 | 11.5 | 9.2 | 5.6 | 4.8 |
| 77.5° | 315.2 | 22.5 | 5.6 | 3.6 | 3.1 | 2.6 | 5.1 | 6.9 | 3.8 | 1.2 | 1.0 |
| 80° | 60.7 | 9.4 | 2.8 | 1.7 | 1.5 | 1.0 | 0.7 | 0.5 | 0.0 | 0.0 | 0.0 |
| 82.5° | 10.5 | 3.1 | 1.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 3.6 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)