

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: P963420

Luminaire Tested: **NVN-SB3A-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3A-722-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8322 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

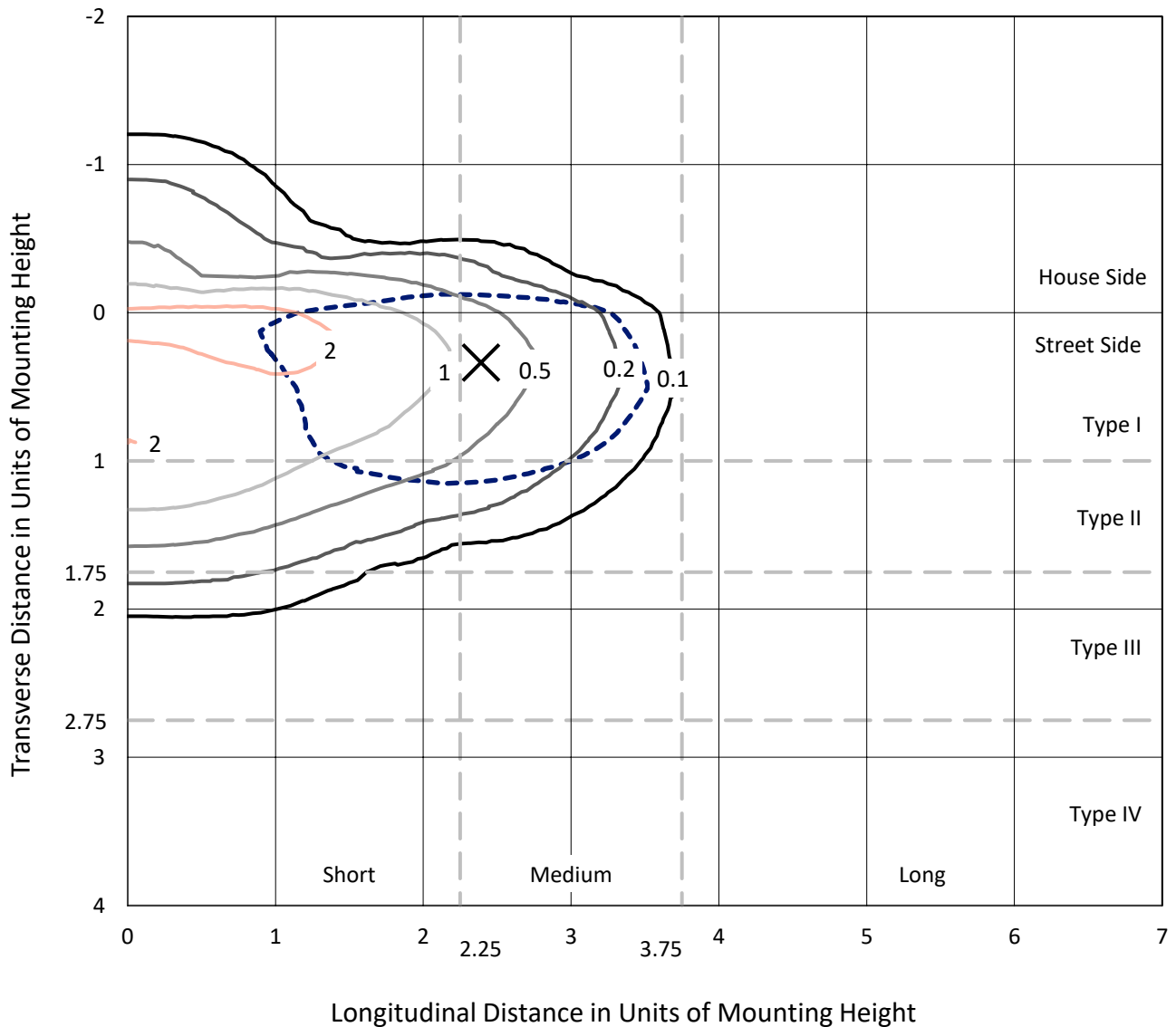
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

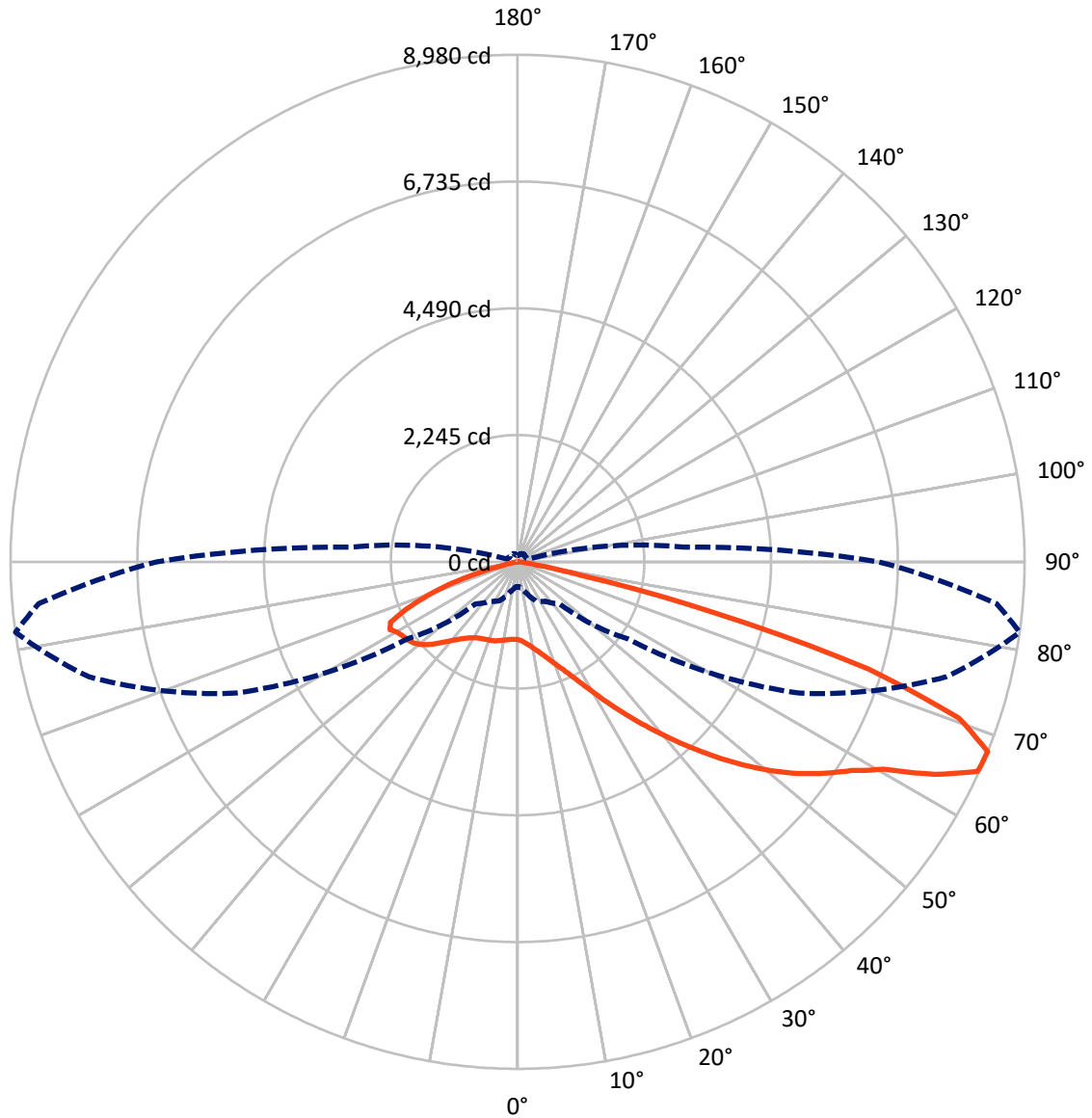
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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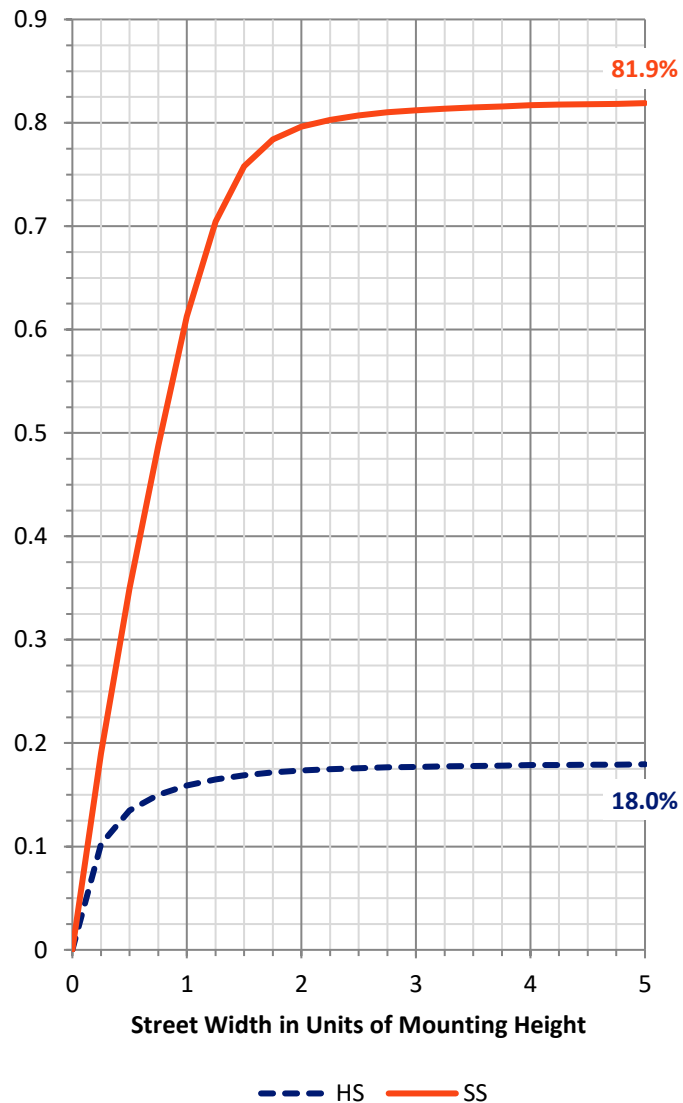
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1507.5 | 0.0 | 1507.5 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 6814.5 | 0.0 | 6814.5 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 8322.0 | 0.0 | 8322.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 122.8 | 1.5 |
| 10°-20° | 319.2 | 3.8 |
| 20°-30° | 511.2 | 6.1 |
| 30°-40° | 904.0 | 10.9 |
| 40°-50° | 1583.9 | 19.0 |
| 50°-60° | 2112.5 | 25.4 |
| 60°-70° | 1966.6 | 23.6 |
| 70°-80° | 754.8 | 9.1 |
| 80°-90° | 46.9 | 0.6 |
| 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° | 8322.0 | 100.0 |
| 0°-180° | 8322.0 | 100.0 |

Coefficient of Utilization



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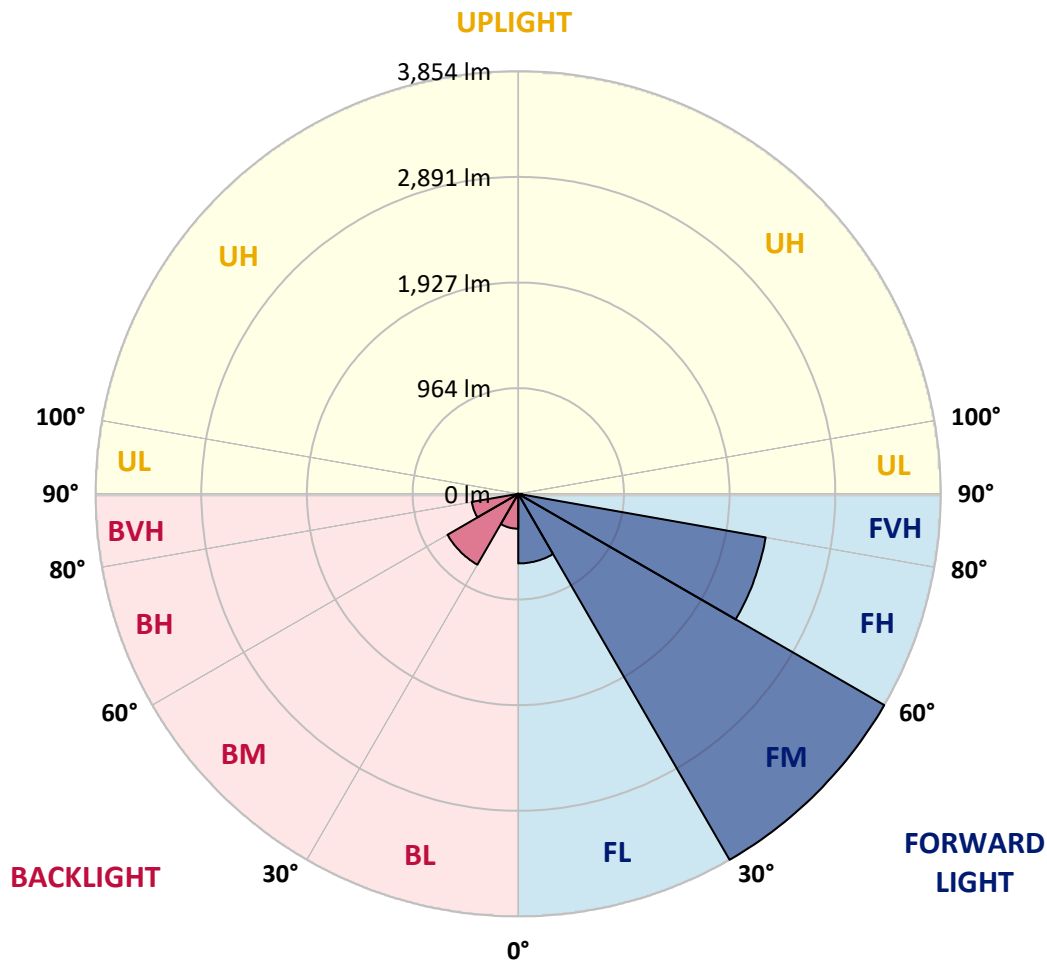
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 634.9 | 7.6 | | | |
| FM (30°-60°) | 3854.4 | 46.3 | | | |
| FH (60°-80°) | 2291.2 | 27.5 | | | G2/5000 |
| FVH (80°-90°) | 34.1 | 0.4 | | | G1/100 |
| BL (0°-30°) | 318.4 | 3.8 | B1/500 | | |
| BM (30°-60°) | 746.0 | 9.0 | B1/1000 | | |
| BH (60°-80°) | 430.3 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 12.8 | 0.2 | | | 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 II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1378.6 | 1378.6 | 1378.6 | 1378.6 | 1378.6 | 1378.6 | 1378.6 | 1378.6 | 1378.6 | 1378.6 | 1378.6 |
| 2.5° | 1457.1 | 1465.5 | 1460.7 | 1458.4 | 1454.2 | 1448.2 | 1443.4 | 1428.4 | 1412.9 | 1402.6 | 1399.0 |
| 5° | 1486.6 | 1494.9 | 1494.3 | 1496.7 | 1499.7 | 1501.5 | 1500.3 | 1483.5 | 1461.3 | 1444.0 | 1433.8 |
| 7.5° | 1461.3 | 1471.0 | 1478.8 | 1490.8 | 1511.7 | 1533.8 | 1544.7 | 1541.1 | 1518.2 | 1494.3 | 1481.7 |
| 10° | 1390.0 | 1400.3 | 1418.8 | 1447.0 | 1491.3 | 1539.2 | 1579.4 | 1598.0 | 1583.6 | 1557.2 | 1539.9 |
| 12.5° | 1259.4 | 1269.7 | 1306.2 | 1367.2 | 1441.6 | 1524.9 | 1601.6 | 1651.3 | 1654.9 | 1628.5 | 1608.1 |
| 15° | 1112.6 | 1122.8 | 1161.7 | 1238.5 | 1351.7 | 1485.3 | 1613.6 | 1707.6 | 1739.3 | 1716.6 | 1692.1 |
| 17.5° | 1021.6 | 1030.5 | 1060.0 | 1121.7 | 1239.6 | 1406.2 | 1609.4 | 1767.5 | 1840.0 | 1822.0 | 1792.7 |
| 20° | 994.0 | 1001.8 | 1015.6 | 1058.7 | 1157.0 | 1324.1 | 1581.8 | 1823.9 | 1948.4 | 1938.3 | 1905.4 |
| 22.5° | 1023.4 | 1030.5 | 1034.7 | 1053.9 | 1115.6 | 1270.2 | 1547.0 | 1881.4 | 2074.3 | 2075.5 | 2035.3 |
| 25° | 1091.1 | 1098.3 | 1093.5 | 1105.5 | 1132.4 | 1253.5 | 1533.8 | 1949.0 | 2232.4 | 2245.7 | 2200.2 |
| 27.5° | 1202.5 | 1203.1 | 1191.8 | 1191.2 | 1195.4 | 1278.6 | 1547.6 | 2021.6 | 2432.0 | 2456.5 | 2400.2 |
| 30° | 1426.0 | 1417.1 | 1373.3 | 1325.9 | 1304.4 | 1354.1 | 1586.0 | 2107.3 | 2667.5 | 2711.2 | 2640.5 |
| 32.5° | 1770.5 | 1757.4 | 1677.0 | 1563.8 | 1450.0 | 1475.7 | 1654.9 | 2204.9 | 2923.9 | 3003.0 | 2916.7 |
| 35° | 2144.4 | 2140.8 | 2057.0 | 1888.6 | 1689.6 | 1648.9 | 1766.9 | 2333.1 | 3203.7 | 3329.5 | 3227.1 |
| 37.5° | 2491.9 | 2490.1 | 2442.2 | 2243.8 | 2001.8 | 1890.3 | 1946.7 | 2500.9 | 3503.2 | 3685.5 | 3564.4 |
| 40° | 2809.4 | 2814.9 | 2766.9 | 2589.6 | 2345.7 | 2200.2 | 2191.1 | 2708.3 | 3836.5 | 4073.1 | 3929.3 |
| 42.5° | 3083.9 | 3089.9 | 3041.4 | 2910.1 | 2685.4 | 2542.8 | 2491.3 | 2962.2 | 4161.8 | 4489.5 | 4319.3 |
| 45° | 3270.3 | 3307.4 | 3300.2 | 3195.3 | 3034.1 | 2886.2 | 2852.0 | 3281.0 | 4532.7 | 4931.1 | 4731.6 |
| 47.5° | 3322.9 | 3357.1 | 3411.0 | 3425.4 | 3327.2 | 3181.5 | 3222.3 | 3665.1 | 4907.7 | 5373.3 | 5146.2 |
| 50° | 3193.0 | 3224.6 | 3336.7 | 3485.9 | 3554.2 | 3509.3 | 3582.4 | 4076.7 | 5291.8 | 5814.2 | 5553.0 |
| 52.5° | 2936.5 | 2968.8 | 3110.3 | 3346.3 | 3624.9 | 3766.4 | 3943.7 | 4482.3 | 5663.8 | 6231.9 | 5938.2 |
| 55° | 2565.6 | 2599.8 | 2781.3 | 3048.6 | 3490.1 | 3872.3 | 4245.0 | 4887.4 | 6004.8 | 6607.6 | 6285.8 |
| 57.5° | 2061.1 | 2086.3 | 2275.0 | 2648.9 | 3151.0 | 3766.9 | 4467.4 | 5329.5 | 6326.0 | 6976.7 | 6630.3 |
| 60° | 1343.4 | 1365.5 | 1584.8 | 2001.8 | 2588.9 | 3414.6 | 4511.6 | 5822.6 | 6752.5 | 7456.6 | 7094.6 |
| 62.5° | 893.4 | 908.4 | 1038.3 | 1344.5 | 1823.3 | 2738.2 | 4252.2 | 6216.3 | 7378.1 | 8291.8 | 7891.0 |
| 65° | 612.9 | 627.9 | 758.0 | 971.3 | 1177.9 | 1811.3 | 3506.3 | 6164.1 | 7944.9 | 8955.0 | 8481.2 |
| 67.5° | 437.4 | 450.0 | 560.3 | 761.6 | 852.6 | 1052.2 | 2376.9 | 5497.9 | 7863.4 | 8980.2 | 8512.8 |
| 70° | 313.3 | 320.5 | 411.6 | 593.2 | 677.6 | 632.1 | 1321.7 | 4205.0 | 6884.9 | 8292.4 | 7864.6 |
| 72.5° | 219.2 | 221.7 | 285.8 | 451.7 | 545.8 | 461.4 | 629.1 | 2803.5 | 5207.3 | 6508.6 | 6097.1 |
| 75° | 148.6 | 151.6 | 192.3 | 331.4 | 438.0 | 352.3 | 333.1 | 1503.3 | 3057.0 | 3602.8 | 3229.5 |
| 77.5° | 91.1 | 92.2 | 124.0 | 226.5 | 327.7 | 268.4 | 214.5 | 636.9 | 1182.7 | 1161.2 | 989.8 |
| 80° | 51.6 | 51.6 | 79.1 | 140.8 | 223.4 | 173.1 | 150.4 | 270.8 | 374.4 | 328.9 | 290.0 |
| 82.5° | 28.8 | 29.3 | 57.5 | 87.4 | 148.0 | 102.5 | 82.7 | 125.3 | 161.7 | 143.2 | 124.6 |
| 85° | 12.0 | 13.2 | 35.4 | 41.3 | 70.7 | 50.9 | 33.5 | 52.7 | 60.0 | 53.3 | 38.9 |
| 87.5° | 1.2 | 1.8 | 10.8 | 7.8 | 8.4 | 10.1 | 4.8 | 10.1 | 8.4 | 8.4 | 5.9 |
| 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° | 1378.6 | 1378.6 | 1378.6 | 1378.6 | 1378.6 | 1378.6 | 1378.6 | 1378.6 | 1378.6 | 1378.6 | 1378.6 |
| 2.5° | 1387.6 | 1378.6 | 1355.9 | 1329.5 | 1294.8 | 1278.0 | 1255.2 | 1239.6 | 1226.5 | 1227.6 | 1215.6 |
| 5° | 1414.6 | 1391.8 | 1340.9 | 1277.5 | 1198.3 | 1142.0 | 1082.1 | 1040.8 | 1007.2 | 1000.0 | 983.8 |
| 7.5° | 1451.8 | 1415.8 | 1326.6 | 1212.1 | 1078.5 | 977.2 | 886.7 | 828.6 | 787.3 | 774.1 | 761.0 |
| 10° | 1499.7 | 1447.6 | 1308.0 | 1130.1 | 937.7 | 808.8 | 711.8 | 666.2 | 638.1 | 628.5 | 621.4 |
| 12.5° | 1555.4 | 1484.1 | 1283.4 | 1029.9 | 792.7 | 668.7 | 606.9 | 584.1 | 575.2 | 572.2 | 570.4 |
| 15° | 1625.5 | 1529.6 | 1246.3 | 911.3 | 669.8 | 583.0 | 556.6 | 553.6 | 554.8 | 553.6 | 553.0 |
| 17.5° | 1708.8 | 1579.4 | 1185.7 | 789.0 | 587.2 | 539.3 | 529.6 | 532.1 | 535.0 | 534.4 | 533.2 |
| 20° | 1799.9 | 1628.5 | 1108.4 | 680.6 | 530.8 | 508.1 | 502.7 | 505.1 | 507.5 | 506.2 | 505.7 |
| 22.5° | 1903.5 | 1681.2 | 1022.7 | 596.1 | 493.1 | 479.3 | 473.3 | 474.0 | 474.0 | 471.5 | 470.4 |
| 25° | 2027.6 | 1739.3 | 932.9 | 536.3 | 464.3 | 453.6 | 446.4 | 443.9 | 440.3 | 433.2 | 432.0 |
| 27.5° | 2175.6 | 1801.0 | 846.6 | 494.4 | 441.6 | 431.4 | 423.0 | 417.0 | 408.1 | 396.1 | 394.8 |
| 30° | 2342.1 | 1876.0 | 773.6 | 467.9 | 423.6 | 413.4 | 403.8 | 394.8 | 381.7 | 366.6 | 365.5 |
| 32.5° | 2538.0 | 1956.2 | 720.2 | 450.6 | 407.4 | 396.7 | 385.3 | 374.4 | 360.1 | 345.1 | 345.7 |
| 35° | 2771.7 | 2053.3 | 689.0 | 438.6 | 394.8 | 380.5 | 367.9 | 355.9 | 345.1 | 331.9 | 330.8 |
| 37.5° | 3025.2 | 2156.4 | 679.5 | 432.6 | 386.4 | 364.3 | 349.9 | 341.5 | 340.3 | 332.5 | 331.9 |
| 40° | 3302.6 | 2278.6 | 686.6 | 429.0 | 377.5 | 348.7 | 333.1 | 331.4 | 334.4 | 320.5 | 321.1 |
| 42.5° | 3596.2 | 2423.6 | 698.6 | 424.8 | 364.9 | 333.1 | 318.2 | 318.2 | 315.8 | 296.6 | 296.6 |
| 45° | 3913.8 | 2590.8 | 710.6 | 414.6 | 349.9 | 317.5 | 306.2 | 302.0 | 291.8 | 273.3 | 272.6 |
| 47.5° | 4233.7 | 2760.9 | 719.6 | 396.1 | 331.9 | 304.4 | 294.2 | 284.6 | 269.6 | 252.9 | 252.3 |
| 50° | 4537.5 | 2913.8 | 710.0 | 368.5 | 311.6 | 291.8 | 281.1 | 267.8 | 251.6 | 240.3 | 238.4 |
| 52.5° | 4808.9 | 3046.1 | 669.2 | 336.1 | 290.0 | 278.6 | 269.1 | 255.2 | 242.1 | 230.1 | 228.9 |
| 55° | 5044.9 | 3153.4 | 597.4 | 305.6 | 270.8 | 267.2 | 257.7 | 240.3 | 222.3 | 212.1 | 210.9 |
| 57.5° | 5271.4 | 3234.9 | 507.5 | 280.4 | 253.5 | 254.6 | 240.3 | 224.7 | 207.9 | 197.1 | 195.9 |
| 60° | 5572.8 | 3344.0 | 416.5 | 257.1 | 234.8 | 238.4 | 222.9 | 211.5 | 190.5 | 176.7 | 175.0 |
| 62.5° | 6054.6 | 3513.5 | 330.8 | 228.3 | 213.3 | 214.5 | 207.9 | 194.1 | 168.9 | 152.8 | 151.6 |
| 65° | 6436.8 | 3451.2 | 260.7 | 197.1 | 188.7 | 190.5 | 190.5 | 175.6 | 148.6 | 130.0 | 128.2 |
| 67.5° | 6393.6 | 2955.1 | 207.9 | 166.6 | 165.3 | 166.6 | 170.8 | 158.2 | 131.8 | 116.8 | 114.4 |
| 70° | 5889.8 | 2350.5 | 166.6 | 138.4 | 143.8 | 140.8 | 152.8 | 144.4 | 118.6 | 103.6 | 101.9 |
| 72.5° | 4805.9 | 1693.2 | 127.0 | 114.4 | 110.3 | 115.0 | 137.8 | 130.0 | 98.9 | 82.1 | 80.3 |
| 75° | 2808.3 | 903.5 | 94.7 | 90.5 | 79.6 | 95.8 | 122.2 | 110.8 | 75.5 | 60.5 | 58.7 |
| 77.5° | 914.3 | 315.2 | 69.5 | 66.5 | 59.3 | 77.3 | 104.2 | 93.5 | 61.7 | 48.0 | 46.1 |
| 80° | 245.1 | 95.2 | 47.4 | 43.8 | 38.3 | 57.5 | 82.7 | 74.3 | 44.4 | 31.2 | 30.5 |
| 82.5° | 98.3 | 40.2 | 27.6 | 24.6 | 21.0 | 39.6 | 65.3 | 60.0 | 33.0 | 19.8 | 19.8 |
| 85° | 31.8 | 13.2 | 10.1 | 7.8 | 9.6 | 24.6 | 38.9 | 40.7 | 23.4 | 10.1 | 7.8 |
| 87.5° | 4.2 | 1.8 | 1.8 | 2.4 | 1.8 | 4.2 | 12.0 | 11.4 | 6.6 | 1.2 | 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)