

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: P966114

Luminaire Tested: **NVN-SB4B-730-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4B-730-U-SLR-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17654.6 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

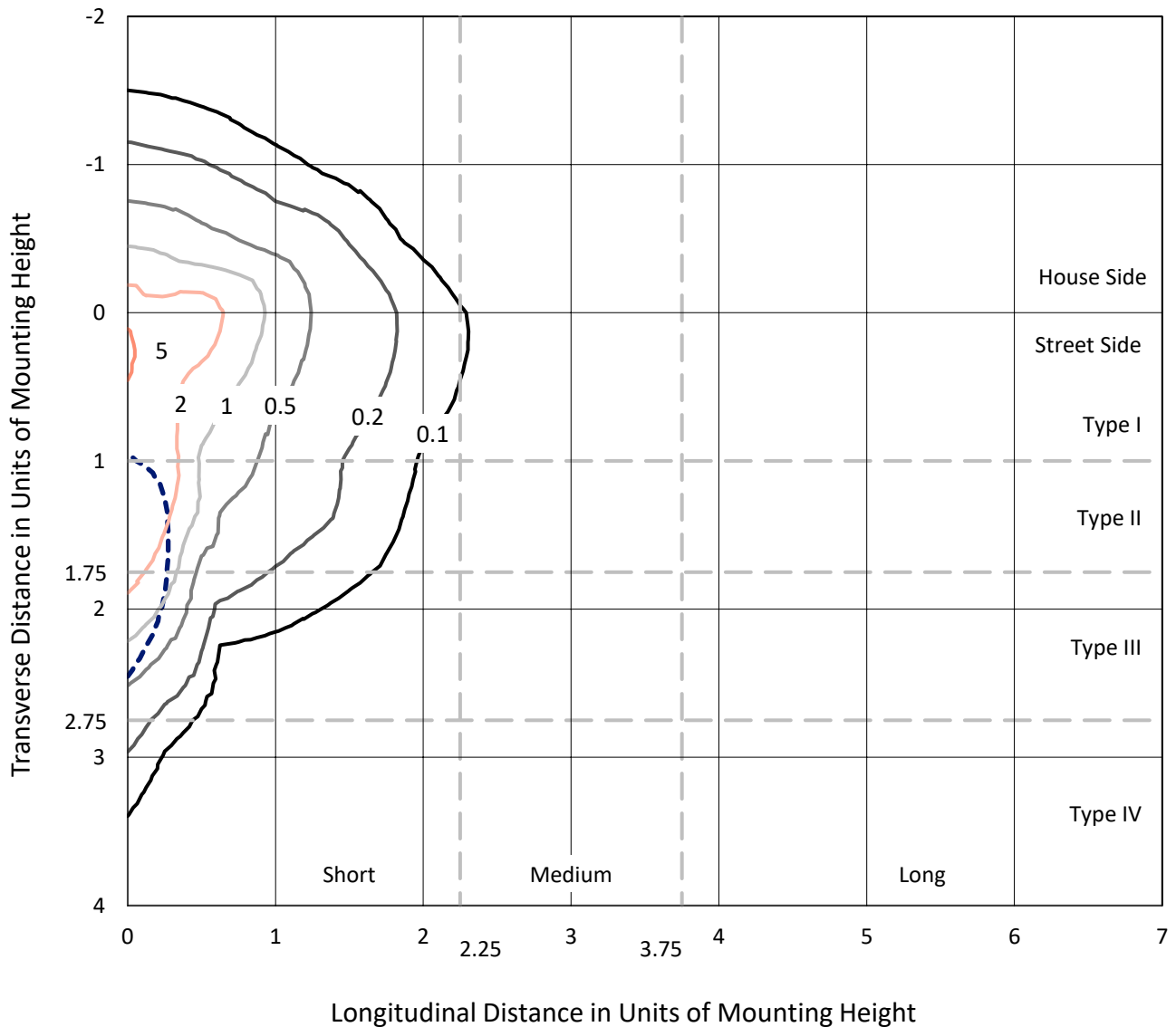
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P966114
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Iso-Footcandle Lines of Horizontal Illumination

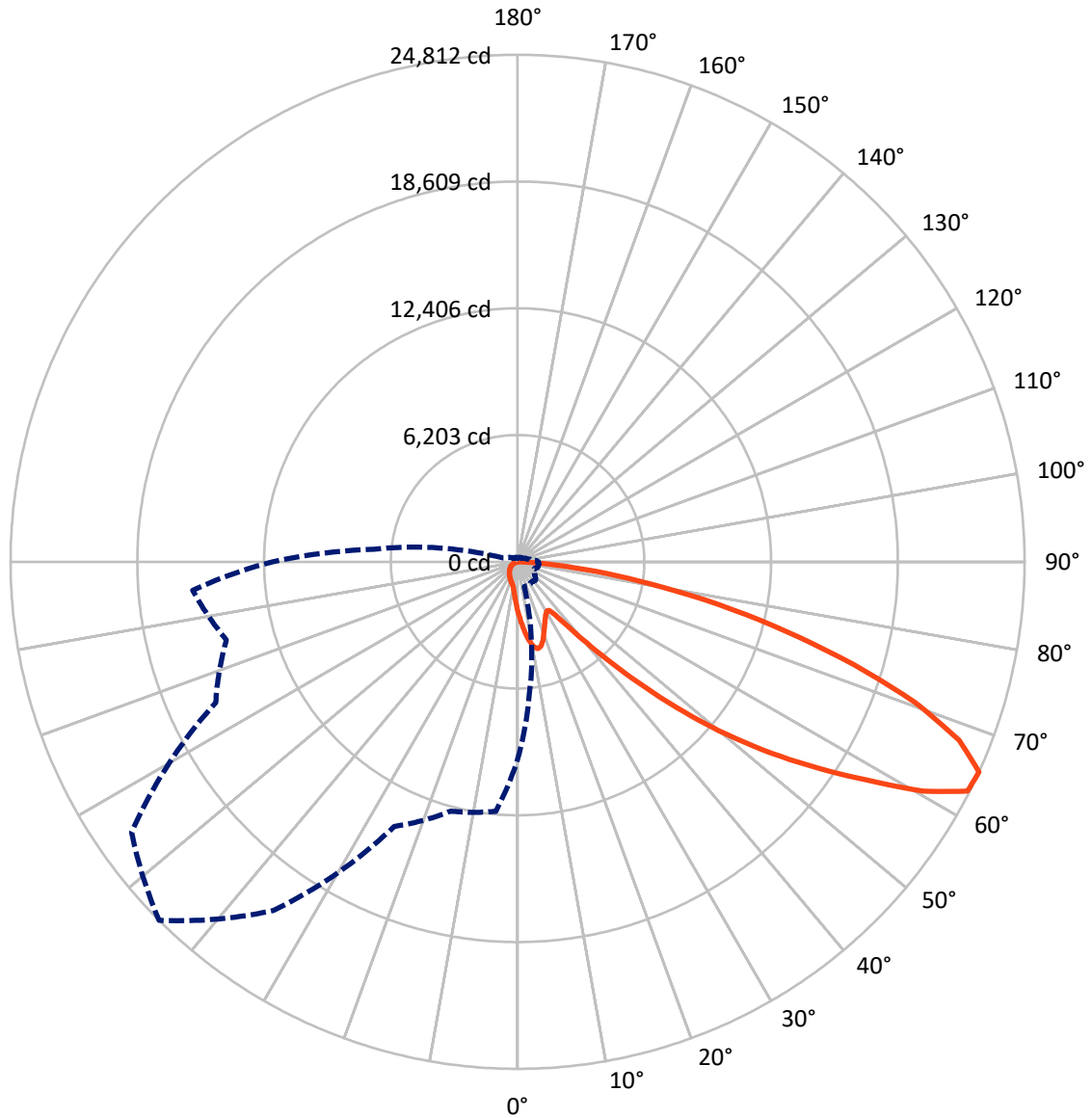
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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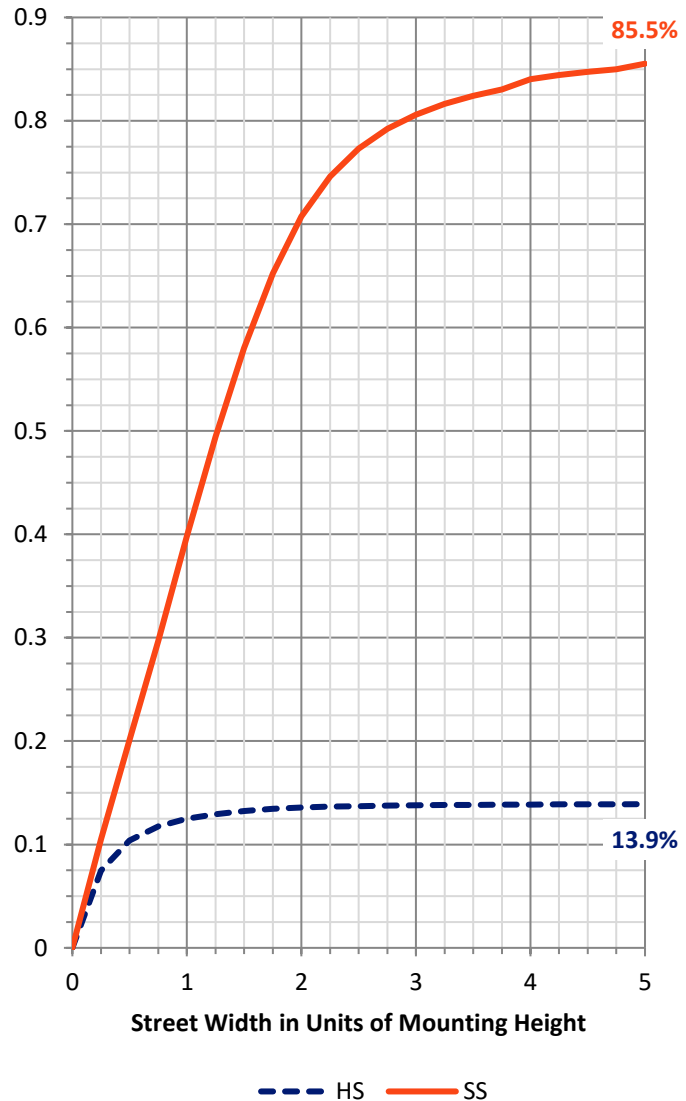
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2472.4 | 0.0 | 2472.4 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 15182.2 | 0.0 | 15182.2 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 17654.6 | 0.0 | 17654.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 240.7 | 1.4 |
| 10°-20° | 721.5 | 4.1 |
| 20°-30° | 1062.9 | 6.0 |
| 30°-40° | 1365.5 | 7.7 |
| 40°-50° | 2208.5 | 12.5 |
| 50°-60° | 3872.8 | 21.9 |
| 60°-70° | 4845.9 | 27.4 |
| 70°-80° | 2831.7 | 16.0 |
| 80°-90° | 505.2 | 2.9 |
| 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° | 17654.6 | 100.0 |
| 0°-180° | 17654.6 | 100.0 |

Coefficient of Utilization



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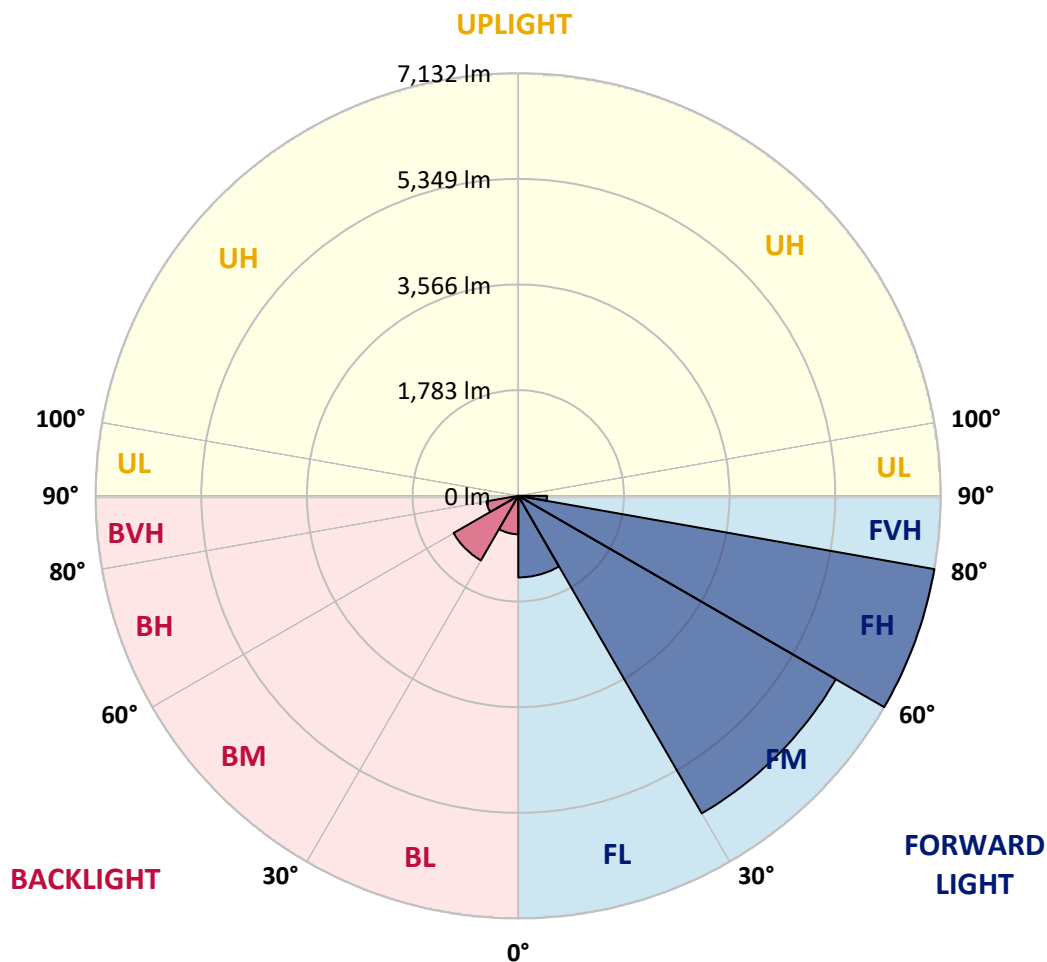
CATALOG NUMBER: NVN-SB4B-730-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1377.0 | 7.8 | | | |
| FM (30°-60°) | 6187.7 | 35.0 | | | |
| FH (60°-80°) | 7131.7 | 40.4 | | | G3/7500 |
| FVH (80°-90°) | 485.8 | 2.8 | | | G3/500 |
| BL (0°-30°) | 648.1 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 1259.0 | 7.1 | B2/2500 | | |
| BH (60°-80°) | 545.9 | 3.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 19.4 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 |
| 2.5° | 2762.1 | 2714.6 | 2686.6 | 2617.3 | 2547.9 | 2492.0 | 2416.6 | 2366.7 | 2307.2 | 2250.0 | 2198.9 |
| 5° | 3078.3 | 3001.6 | 2909.2 | 2782.7 | 2667.2 | 2549.2 | 2434.9 | 2321.7 | 2202.5 | 2093.2 | 2026.2 |
| 7.5° | 3345.8 | 3235.1 | 3072.1 | 2904.3 | 2757.1 | 2614.9 | 2481.1 | 2331.5 | 2186.7 | 2015.3 | 1924.0 |
| 10° | 3550.2 | 3409.0 | 3195.0 | 2974.9 | 2805.8 | 2662.3 | 2532.2 | 2405.7 | 2259.7 | 2053.0 | 1938.7 |
| 12.5° | 3674.2 | 3523.3 | 3269.2 | 3011.3 | 2817.9 | 2657.4 | 2556.5 | 2500.6 | 2443.4 | 2237.9 | 2104.0 |
| 15° | 3765.4 | 3602.5 | 3321.5 | 3036.9 | 2790.0 | 2592.9 | 2518.8 | 2574.7 | 2640.4 | 2509.1 | 2354.6 |
| 17.5° | 3860.3 | 3688.8 | 3389.6 | 3047.8 | 2714.6 | 2467.7 | 2436.1 | 2580.8 | 2732.9 | 2726.8 | 2573.5 |
| 20° | 3950.2 | 3780.0 | 3449.2 | 3040.6 | 2592.9 | 2315.7 | 2343.7 | 2528.5 | 2704.9 | 2779.1 | 2696.4 |
| 22.5° | 4053.7 | 3873.7 | 3506.3 | 3012.6 | 2434.9 | 2173.4 | 2260.9 | 2445.9 | 2600.3 | 2687.9 | 2662.3 |
| 25° | 4180.2 | 3991.7 | 3586.6 | 2971.3 | 2264.6 | 2055.4 | 2177.0 | 2349.7 | 2475.0 | 2535.8 | 2534.6 |
| 27.5° | 4316.4 | 4132.7 | 3693.7 | 2949.3 | 2127.2 | 1971.5 | 2082.2 | 2235.4 | 2347.2 | 2389.9 | 2389.9 |
| 30° | 4485.4 | 4296.9 | 3820.2 | 2925.0 | 2037.2 | 1922.8 | 1983.7 | 2102.9 | 2212.3 | 2254.9 | 2254.9 |
| 32.5° | 4670.3 | 4479.4 | 3941.7 | 2866.6 | 1982.5 | 1886.3 | 1887.5 | 1963.0 | 2062.7 | 2113.8 | 2121.0 |
| 35° | 4901.3 | 4698.3 | 4071.9 | 2738.9 | 1938.7 | 1843.8 | 1794.0 | 1830.4 | 1913.1 | 1973.9 | 1989.7 |
| 37.5° | 5231.0 | 4985.3 | 4231.2 | 2556.5 | 1874.2 | 1778.1 | 1695.5 | 1704.0 | 1767.2 | 1834.0 | 1858.4 |
| 40° | 5685.8 | 5370.8 | 4418.5 | 2366.7 | 1781.8 | 1685.7 | 1587.2 | 1583.5 | 1629.7 | 1695.5 | 1722.2 |
| 42.5° | 6301.2 | 5880.4 | 4643.6 | 2185.5 | 1693.0 | 1573.8 | 1472.8 | 1466.8 | 1503.3 | 1560.4 | 1588.3 |
| 45° | 7113.7 | 6532.3 | 4919.6 | 2029.9 | 1623.6 | 1464.3 | 1364.6 | 1362.1 | 1392.6 | 1442.5 | 1471.6 |
| 47.5° | 8153.6 | 7438.4 | 5195.7 | 1924.0 | 1587.2 | 1378.0 | 1275.8 | 1280.6 | 1307.4 | 1352.4 | 1373.1 |
| 50° | 9499.9 | 8619.3 | 5279.6 | 1870.5 | 1587.2 | 1331.8 | 1196.8 | 1221.1 | 1243.0 | 1277.0 | 1289.1 |
| 52.5° | 11113.8 | 9752.9 | 5002.3 | 1821.9 | 1596.8 | 1337.8 | 1129.9 | 1182.1 | 1198.0 | 1227.1 | 1232.0 |
| 55° | 12609.8 | 10308.6 | 4300.6 | 1755.0 | 1599.3 | 1375.6 | 1072.7 | 1150.6 | 1179.8 | 1190.6 | 1189.4 |
| 57.5° | 13478.1 | 10117.7 | 3477.2 | 1641.8 | 1589.6 | 1401.1 | 1036.2 | 1111.6 | 1167.6 | 1174.9 | 1163.9 |
| 60° | 13312.7 | 9447.5 | 2560.1 | 1555.5 | 1517.8 | 1391.3 | 1025.3 | 1052.1 | 1140.8 | 1151.8 | 1137.1 |
| 62.5° | 12038.1 | 8323.8 | 1776.9 | 1488.6 | 1359.8 | 1348.8 | 1021.6 | 958.4 | 1082.4 | 1109.2 | 1088.6 |
| 65° | 9676.2 | 6553.0 | 1255.1 | 1281.9 | 1191.9 | 1256.3 | 1002.1 | 861.1 | 1011.9 | 1048.4 | 1016.8 |
| 67.5° | 7020.0 | 4434.4 | 906.1 | 1038.6 | 1080.0 | 1106.8 | 958.4 | 790.6 | 931.6 | 980.3 | 938.9 |
| 70° | 4504.9 | 2394.7 | 636.1 | 685.9 | 909.7 | 940.1 | 882.9 | 727.3 | 850.1 | 906.1 | 861.1 |
| 72.5° | 3202.3 | 1414.5 | 457.3 | 480.4 | 730.9 | 783.2 | 777.2 | 656.7 | 755.2 | 823.4 | 769.9 |
| 75° | 2209.9 | 779.6 | 308.9 | 343.0 | 530.2 | 636.1 | 599.6 | 564.4 | 639.7 | 709.1 | 656.7 |
| 77.5° | 1385.3 | 349.0 | 184.9 | 238.4 | 347.9 | 499.9 | 411.1 | 436.6 | 498.7 | 563.1 | 508.4 |
| 80° | 771.1 | 135.0 | 103.4 | 158.2 | 189.7 | 363.7 | 227.4 | 281.0 | 367.3 | 413.5 | 369.7 |
| 82.5° | 167.8 | 17.0 | 46.2 | 68.1 | 74.2 | 211.7 | 120.4 | 163.0 | 231.0 | 227.4 | 197.0 |
| 85° | 0.0 | 0.0 | 8.5 | 9.7 | 4.8 | 91.2 | 43.8 | 53.5 | 75.4 | 70.5 | 53.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 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 |

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CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 |
| 2.5° | 2189.2 | 2129.6 | 2085.8 | 2063.9 | 2045.7 | 2062.7 | 2072.4 | 2072.4 | 2113.8 | 2138.1 | 2147.9 |
| 5° | 1983.7 | 1876.7 | 1795.2 | 1740.4 | 1707.5 | 1718.5 | 1730.7 | 1744.0 | 1796.3 | 1831.6 | 1854.7 |
| 7.5° | 1841.3 | 1677.2 | 1553.1 | 1476.5 | 1436.3 | 1442.5 | 1451.0 | 1461.9 | 1513.0 | 1548.3 | 1578.6 |
| 10° | 1814.6 | 1578.6 | 1403.5 | 1302.6 | 1253.9 | 1245.4 | 1240.6 | 1236.9 | 1267.3 | 1294.1 | 1318.4 |
| 12.5° | 1924.0 | 1583.5 | 1339.1 | 1216.3 | 1156.6 | 1131.1 | 1101.9 | 1078.8 | 1083.6 | 1100.6 | 1131.1 |
| 15° | 2119.9 | 1645.5 | 1318.4 | 1171.3 | 1097.1 | 1054.4 | 1020.4 | 992.4 | 986.4 | 992.4 | 997.3 |
| 17.5° | 2343.7 | 1729.5 | 1316.0 | 1132.3 | 1039.9 | 996.1 | 968.1 | 942.6 | 934.1 | 935.3 | 941.4 |
| 20° | 2492.0 | 1796.3 | 1308.6 | 1088.6 | 985.1 | 946.2 | 921.9 | 896.4 | 887.9 | 890.3 | 891.4 |
| 22.5° | 2506.6 | 1831.6 | 1297.8 | 1039.9 | 930.4 | 897.6 | 873.2 | 850.1 | 848.9 | 848.9 | 856.2 |
| 25° | 2427.6 | 1831.6 | 1274.6 | 996.1 | 878.1 | 848.9 | 827.1 | 799.1 | 803.9 | 806.4 | 816.1 |
| 27.5° | 2304.7 | 1787.8 | 1230.8 | 960.8 | 833.1 | 802.7 | 780.8 | 755.2 | 761.4 | 765.0 | 775.9 |
| 30° | 2183.1 | 1731.9 | 1178.5 | 920.7 | 790.6 | 755.2 | 739.4 | 717.6 | 720.0 | 724.9 | 737.1 |
| 32.5° | 2070.0 | 1672.3 | 1116.5 | 887.9 | 747.9 | 712.7 | 700.6 | 676.2 | 679.9 | 684.7 | 698.1 |
| 35° | 1958.2 | 1606.6 | 1043.6 | 848.9 | 709.1 | 673.8 | 664.1 | 636.1 | 638.5 | 645.9 | 660.4 |
| 37.5° | 1837.7 | 1537.3 | 983.9 | 810.0 | 671.4 | 634.9 | 625.1 | 595.9 | 598.4 | 606.9 | 623.9 |
| 40° | 1711.2 | 1469.2 | 925.6 | 768.6 | 631.2 | 594.7 | 586.2 | 554.6 | 557.0 | 566.7 | 585.0 |
| 42.5° | 1583.5 | 1395.0 | 880.6 | 715.1 | 589.9 | 550.9 | 542.4 | 513.2 | 516.9 | 527.9 | 546.1 |
| 45° | 1465.5 | 1306.3 | 851.4 | 655.6 | 550.9 | 507.2 | 498.7 | 471.9 | 479.2 | 491.4 | 509.6 |
| 47.5° | 1364.6 | 1215.0 | 839.2 | 605.7 | 509.6 | 462.2 | 454.9 | 433.0 | 445.2 | 458.5 | 473.1 |
| 50° | 1278.3 | 1127.4 | 823.4 | 554.6 | 470.7 | 423.2 | 415.9 | 401.4 | 417.2 | 430.5 | 443.9 |
| 52.5° | 1216.3 | 1027.7 | 789.4 | 508.4 | 436.6 | 390.4 | 388.0 | 380.7 | 395.2 | 407.4 | 419.6 |
| 55° | 1162.7 | 924.3 | 734.6 | 468.2 | 406.2 | 362.4 | 364.9 | 361.2 | 373.4 | 383.1 | 394.0 |
| 57.5° | 1114.1 | 834.4 | 665.2 | 436.6 | 373.4 | 338.1 | 345.4 | 340.5 | 346.7 | 352.7 | 366.1 |
| 60° | 1055.6 | 743.1 | 582.6 | 401.4 | 334.5 | 313.8 | 322.3 | 308.9 | 307.7 | 310.2 | 313.8 |
| 62.5° | 969.3 | 620.2 | 496.2 | 357.5 | 300.4 | 287.0 | 290.7 | 265.2 | 245.7 | 245.7 | 249.3 |
| 65° | 848.9 | 498.7 | 415.9 | 308.9 | 261.5 | 250.5 | 248.2 | 211.7 | 184.9 | 182.4 | 193.4 |
| 67.5° | 709.1 | 409.9 | 345.4 | 260.2 | 217.7 | 210.4 | 212.8 | 186.0 | 159.3 | 156.9 | 169.0 |
| 70° | 577.7 | 339.3 | 278.5 | 208.0 | 167.8 | 175.2 | 186.0 | 159.3 | 133.8 | 130.2 | 141.0 |
| 72.5° | 469.4 | 270.0 | 217.7 | 159.3 | 124.0 | 144.7 | 158.2 | 130.2 | 105.8 | 103.4 | 113.1 |
| 75° | 362.4 | 198.2 | 155.7 | 108.2 | 90.0 | 111.9 | 124.0 | 94.9 | 75.4 | 71.8 | 80.3 |
| 77.5° | 242.0 | 122.8 | 87.5 | 68.1 | 53.5 | 76.7 | 82.7 | 49.8 | 43.8 | 42.5 | 48.7 |
| 80° | 147.2 | 57.2 | 37.7 | 32.8 | 18.2 | 28.0 | 32.8 | 20.7 | 23.1 | 24.3 | 29.2 |
| 82.5° | 74.2 | 15.8 | 6.0 | 1.2 | 0.0 | 0.0 | 9.7 | 4.8 | 9.7 | 12.2 | 18.2 |
| 85° | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 6.0 | 11.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.8 |
| 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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 CATALOG NUMBER: NVN-SB4B-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 |
| 2.5° | 2215.9 | 2267.0 | 2315.7 | 2393.5 | 2473.8 | 2552.9 | 2633.1 | 2710.9 | 2738.9 | 2759.6 | 2805.8 |
| 5° | 1960.5 | 2056.7 | 2168.5 | 2323.0 | 2488.4 | 2658.6 | 2831.4 | 2989.4 | 3061.3 | 3109.8 | 3219.3 |
| 7.5° | 1696.6 | 1821.9 | 1982.5 | 2214.7 | 2473.8 | 2745.1 | 3016.3 | 3265.5 | 3381.1 | 3474.7 | 3641.3 |
| 10° | 1435.1 | 1571.3 | 1774.5 | 2039.6 | 2389.9 | 2779.1 | 3153.6 | 3496.6 | 3646.2 | 3764.2 | 3990.4 |
| 12.5° | 1205.3 | 1333.0 | 1545.8 | 1839.0 | 2258.5 | 2752.3 | 3232.7 | 3645.0 | 3821.4 | 3953.9 | 4202.0 |
| 15° | 1043.6 | 1133.5 | 1322.0 | 1638.3 | 2102.9 | 2665.9 | 3237.6 | 3715.5 | 3908.9 | 4047.6 | 4262.9 |
| 17.5° | 953.6 | 983.9 | 1106.8 | 1433.9 | 1930.2 | 2552.9 | 3192.6 | 3739.9 | 3946.7 | 4075.5 | 4225.2 |
| 20° | 904.9 | 909.7 | 943.8 | 1168.8 | 1708.8 | 2447.0 | 3150.0 | 3764.2 | 3981.9 | 4090.2 | 4135.2 |
| 22.5° | 865.9 | 865.9 | 874.4 | 955.9 | 1423.0 | 2320.5 | 3136.6 | 3806.7 | 4030.5 | 4097.4 | 4005.0 |
| 25° | 830.7 | 830.7 | 833.1 | 855.0 | 1127.4 | 2127.2 | 3128.1 | 3872.4 | 4097.4 | 4115.7 | 3861.5 |
| 27.5° | 794.2 | 795.4 | 795.4 | 807.6 | 908.6 | 1864.5 | 3091.6 | 3957.5 | 4177.7 | 4140.0 | 3724.0 |
| 30° | 757.7 | 760.1 | 760.1 | 768.6 | 803.9 | 1556.8 | 3019.9 | 4059.7 | 4282.3 | 4171.6 | 3587.8 |
| 32.5° | 721.2 | 723.6 | 723.6 | 730.9 | 756.4 | 1243.0 | 2929.9 | 4153.4 | 4388.1 | 4185.0 | 3461.3 |
| 35° | 683.5 | 687.2 | 684.7 | 694.4 | 721.2 | 988.8 | 2815.6 | 4247.0 | 4502.4 | 4227.6 | 3399.3 |
| 37.5° | 645.9 | 648.2 | 647.0 | 656.7 | 687.2 | 853.8 | 2682.9 | 4317.6 | 4658.1 | 4322.4 | 3473.5 |
| 40° | 608.1 | 606.9 | 606.9 | 617.9 | 650.7 | 814.9 | 2516.4 | 4429.4 | 4881.9 | 4489.1 | 3797.0 |
| 42.5° | 569.2 | 569.2 | 566.7 | 578.9 | 619.1 | 785.7 | 2357.0 | 4630.1 | 5207.8 | 4754.2 | 4371.1 |
| 45° | 533.9 | 532.7 | 527.9 | 538.7 | 588.7 | 734.6 | 2301.1 | 5004.8 | 5689.5 | 5183.5 | 5065.5 |
| 47.5° | 499.9 | 498.7 | 486.5 | 496.2 | 552.2 | 688.4 | 2510.2 | 5617.7 | 6357.2 | 5814.7 | 5716.2 |
| 50° | 469.4 | 470.7 | 447.6 | 456.1 | 515.7 | 653.1 | 2963.9 | 6413.1 | 7243.8 | 6664.9 | 6332.9 |
| 52.5° | 441.5 | 441.5 | 411.1 | 415.9 | 470.7 | 621.5 | 3395.7 | 7275.4 | 8413.8 | 7850.7 | 7051.6 |
| 55° | 413.5 | 411.1 | 377.0 | 379.5 | 425.7 | 576.5 | 3460.1 | 8117.1 | 10009.4 | 9634.9 | 8034.4 |
| 57.5° | 381.9 | 377.0 | 345.4 | 345.4 | 384.4 | 543.7 | 2999.1 | 8764.1 | 11989.4 | 12257.1 | 9451.2 |
| 60° | 343.0 | 339.3 | 318.7 | 312.5 | 351.5 | 572.9 | 2116.2 | 8839.5 | 13266.5 | 15743.9 | 12164.6 |
| 62.5° | 293.2 | 298.0 | 287.0 | 278.5 | 319.9 | 594.7 | 1253.9 | 8232.6 | 12957.5 | 16853.2 | 15414.4 |
| 65° | 231.0 | 250.5 | 248.2 | 242.0 | 351.5 | 501.1 | 740.7 | 7067.5 | 12010.1 | 15958.0 | 14751.5 |
| 67.5° | 197.0 | 210.4 | 206.7 | 206.7 | 368.5 | 380.7 | 465.9 | 5521.7 | 10706.3 | 14896.2 | 13176.5 |
| 70° | 167.8 | 181.2 | 167.8 | 167.8 | 278.5 | 231.0 | 322.3 | 3855.4 | 9299.2 | 13721.4 | 12142.8 |
| 72.5° | 138.7 | 152.0 | 137.5 | 127.7 | 222.5 | 172.7 | 236.0 | 2409.4 | 7963.8 | 12497.8 | 11434.9 |
| 75° | 105.8 | 121.7 | 110.7 | 98.5 | 147.2 | 128.9 | 178.8 | 1399.8 | 6598.0 | 10693.0 | 10426.6 |
| 77.5° | 66.9 | 87.5 | 82.7 | 69.3 | 108.2 | 93.7 | 128.9 | 833.1 | 5091.1 | 8355.4 | 8968.3 |
| 80° | 41.3 | 45.0 | 46.2 | 43.8 | 62.0 | 63.2 | 87.5 | 474.4 | 3484.5 | 5823.2 | 7006.6 |
| 82.5° | 26.8 | 26.8 | 20.7 | 23.1 | 30.4 | 36.5 | 49.8 | 178.8 | 2048.2 | 3545.3 | 4877.1 |
| 85° | 19.5 | 17.0 | 11.0 | 11.0 | 14.6 | 18.2 | 19.5 | 54.7 | 830.7 | 1399.8 | 1907.0 |
| 87.5° | 9.7 | 8.5 | 3.7 | 4.8 | 7.3 | 6.0 | 4.8 | 2.5 | 209.2 | 447.6 | 313.8 |
| 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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| | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 | 2444.6 |
| 2.5° | 2830.1 | 2867.8 | 2870.3 | 2870.3 | 2837.4 | 2836.2 | 2769.3 | 2762.1 |
| 5° | 3332.5 | 3356.8 | 3362.8 | 3350.7 | 3285.0 | 3236.3 | 3106.3 | 3078.3 |
| 7.5° | 3792.2 | 3840.8 | 3840.8 | 3811.7 | 3704.6 | 3604.8 | 3416.3 | 3345.8 |
| 10° | 4159.4 | 4215.4 | 4203.2 | 4143.7 | 4008.7 | 3871.2 | 3642.5 | 3550.2 |
| 12.5° | 4338.2 | 4395.4 | 4363.8 | 4295.7 | 4164.4 | 4019.6 | 3778.8 | 3674.2 |
| 15° | 4334.6 | 4318.8 | 4285.9 | 4277.4 | 4214.2 | 4104.7 | 3879.7 | 3765.4 |
| 17.5° | 4180.2 | 4046.4 | 4020.8 | 4105.9 | 4186.2 | 4159.4 | 3967.3 | 3860.3 |
| 20° | 3935.7 | 3702.2 | 3679.0 | 3842.0 | 4070.7 | 4187.4 | 4048.7 | 3950.2 |
| 22.5° | 3677.8 | 3426.1 | 3372.6 | 3552.5 | 3896.7 | 4195.9 | 4152.2 | 4053.7 |
| 25° | 3433.3 | 3180.4 | 3126.9 | 3294.8 | 3703.4 | 4181.4 | 4264.1 | 4180.2 |
| 27.5° | 3229.1 | 2984.6 | 2934.8 | 3102.6 | 3517.3 | 4140.0 | 4375.9 | 4316.4 |
| 30° | 3070.9 | 2844.7 | 2808.3 | 2970.0 | 3356.8 | 4088.9 | 4518.2 | 4485.4 |
| 32.5° | 2978.5 | 2813.1 | 2826.5 | 2959.1 | 3270.4 | 4033.0 | 4654.4 | 4670.3 |
| 35° | 3069.8 | 3077.0 | 3193.8 | 3248.5 | 3350.7 | 4024.5 | 4839.3 | 4901.3 |
| 37.5° | 3523.3 | 3776.3 | 4018.4 | 3973.4 | 3743.5 | 4123.0 | 5115.4 | 5231.0 |
| 40° | 4295.7 | 4815.0 | 5207.8 | 5036.3 | 4457.4 | 4424.6 | 5513.1 | 5685.8 |
| 42.5° | 5239.5 | 6120.0 | 6767.0 | 6307.3 | 5378.1 | 4952.4 | 6081.1 | 6301.2 |
| 45° | 6235.6 | 7729.0 | 8748.3 | 7792.3 | 6359.6 | 5691.9 | 6941.0 | 7113.7 |
| 47.5° | 7285.2 | 9684.7 | 11003.2 | 9439.0 | 7269.3 | 6533.6 | 8113.4 | 8153.6 |
| 50° | 8433.3 | 11828.9 | 13301.7 | 11084.7 | 8147.4 | 7498.0 | 9546.1 | 9499.9 |
| 52.5° | 9526.7 | 14033.9 | 15551.8 | 12737.5 | 8918.5 | 8694.8 | 11208.7 | 11113.8 |
| 55° | 10570.1 | 16237.7 | 17815.1 | 14325.8 | 9645.9 | 10275.8 | 13183.8 | 12609.8 |
| 57.5° | 11780.3 | 18219.0 | 20147.8 | 15921.5 | 10662.6 | 12328.8 | 15392.4 | 13478.1 |
| 60° | 13569.4 | 20470.2 | 22785.9 | 18108.3 | 12596.3 | 14486.3 | 16184.2 | 13312.7 |
| 62.5° | 15853.4 | 22540.2 | 24703.8 | 20251.2 | 14538.7 | 14892.5 | 15017.9 | 12038.1 |
| 65° | 16297.3 | 23064.3 | 24812.1 | 20824.1 | 14288.1 | 12632.8 | 12260.6 | 9676.2 |
| 67.5° | 15120.0 | 22116.9 | 23299.1 | 19757.5 | 12639.0 | 9762.6 | 9200.7 | 7020.0 |
| 70° | 13799.2 | 20310.8 | 20662.4 | 17944.1 | 11116.2 | 7180.5 | 6213.7 | 4504.9 |
| 72.5° | 12445.6 | 17901.5 | 17174.2 | 15583.4 | 9769.9 | 5228.5 | 4481.8 | 3202.3 |
| 75° | 10837.7 | 14733.2 | 13528.0 | 12947.9 | 8089.1 | 4103.5 | 3242.5 | 2209.9 |
| 77.5° | 8678.9 | 10370.6 | 10048.4 | 10036.2 | 6078.7 | 2998.0 | 2163.7 | 1385.3 |
| 80° | 6122.4 | 6730.6 | 6566.4 | 7558.8 | 4078.0 | 2174.6 | 1302.6 | 771.1 |
| 82.5° | 2963.9 | 3721.7 | 3820.2 | 4501.2 | 1983.7 | 1279.5 | 300.4 | 167.8 |
| 85° | 1160.3 | 1795.2 | 1514.2 | 1708.8 | 557.0 | 356.4 | 7.3 | 0.0 |
| 87.5° | 130.2 | 208.0 | 191.0 | 150.8 | 68.1 | 14.6 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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