

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: LUMARK

Report Number: P966114

Luminaire Tested: **NAV-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: LUMARK  
Catalog Number: NAV-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

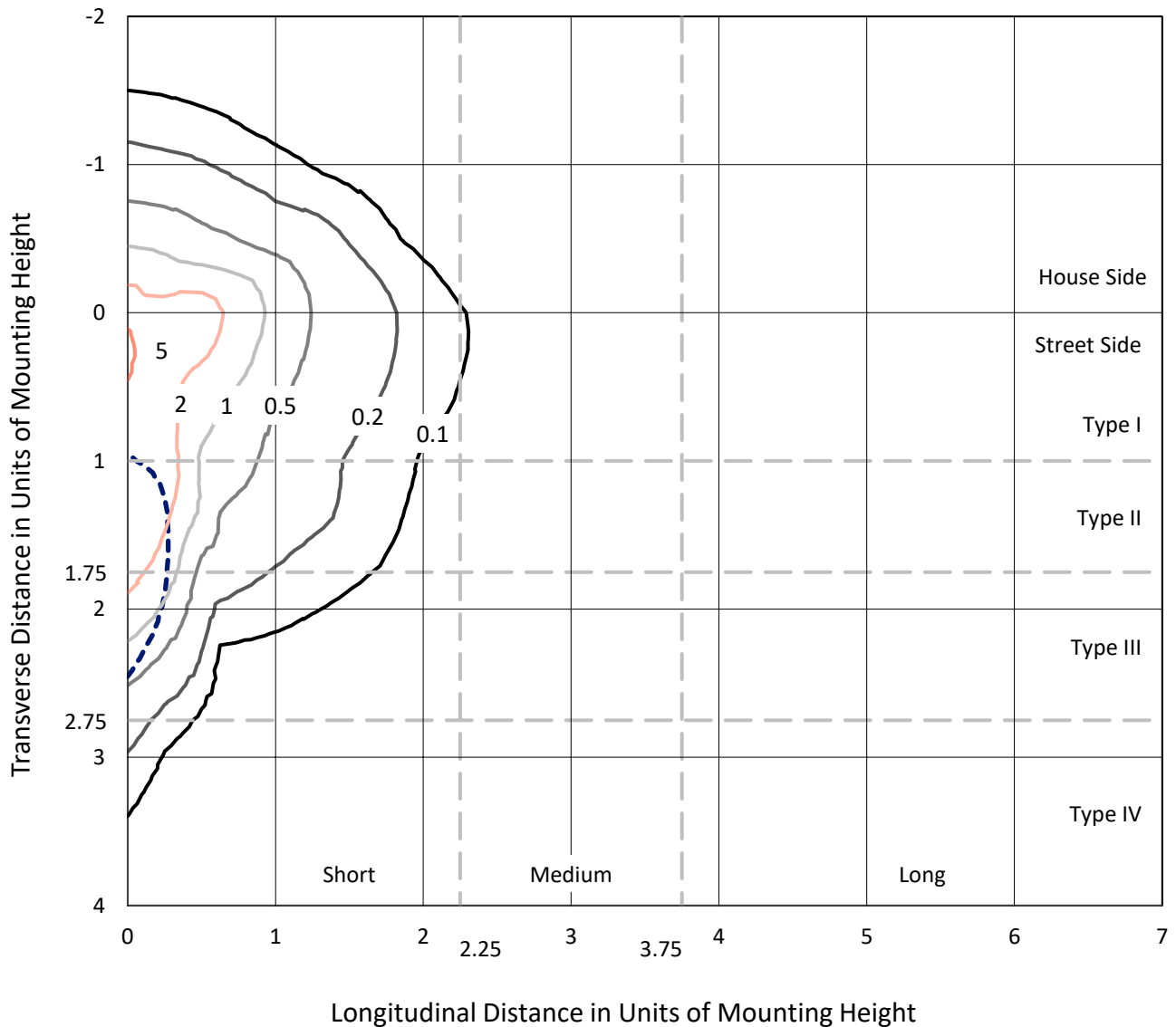
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P966114  
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### Iso-Footcandle Lines of Horizontal Illumination

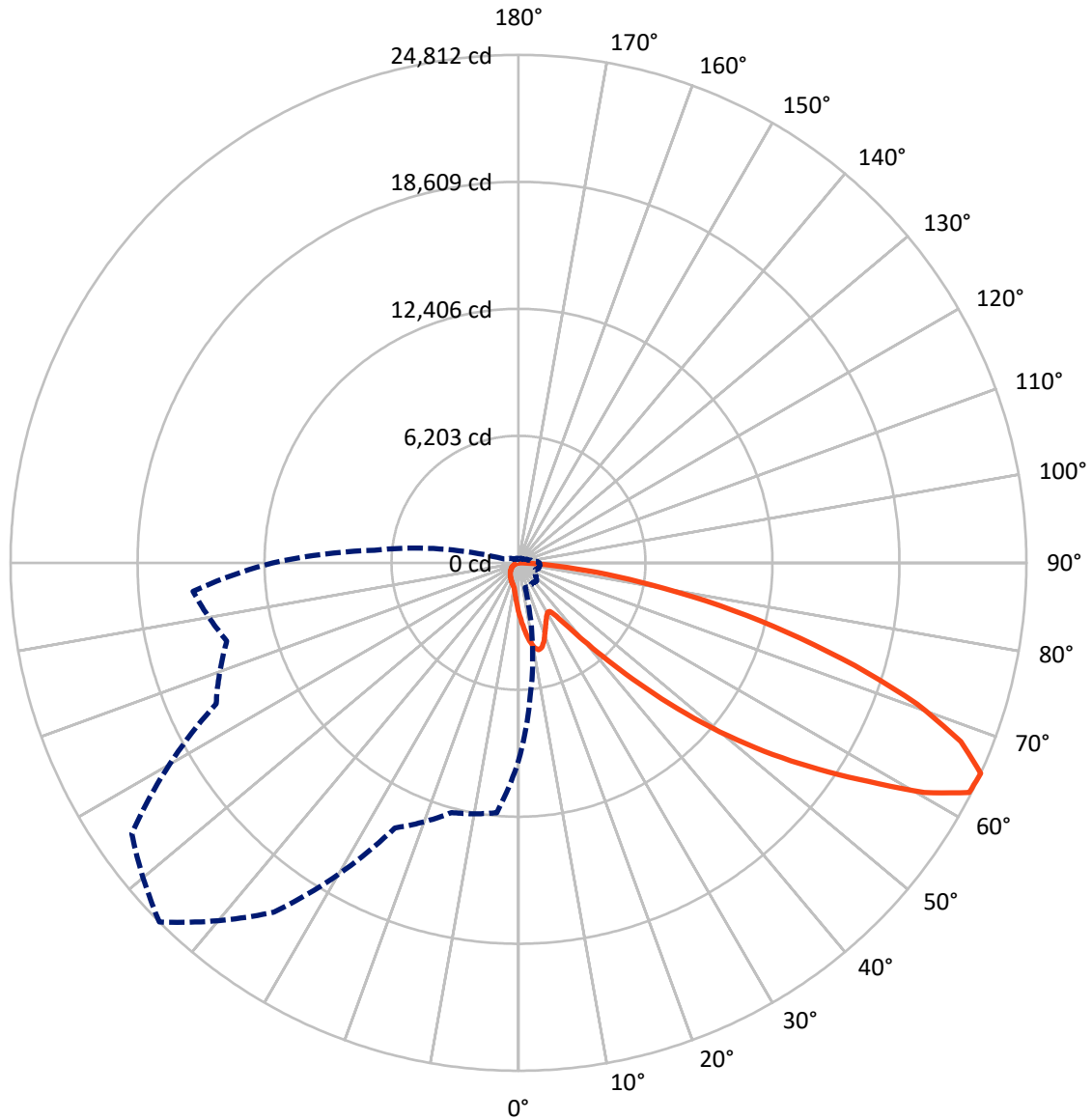
× Max cd  
 - - - 1/2 Max cd



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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2472.4   | 0.0    | 2472.4  |
|                    | % Fixture | 14.0     | 0.0    | 14.0    |
| <b>Street Side</b> | Lumens    | 15182.2  | 0.0    | 15182.2 |
|                    | % Fixture | 86.0     | 0.0    | 86.0    |
| <b>Total</b>       | 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**



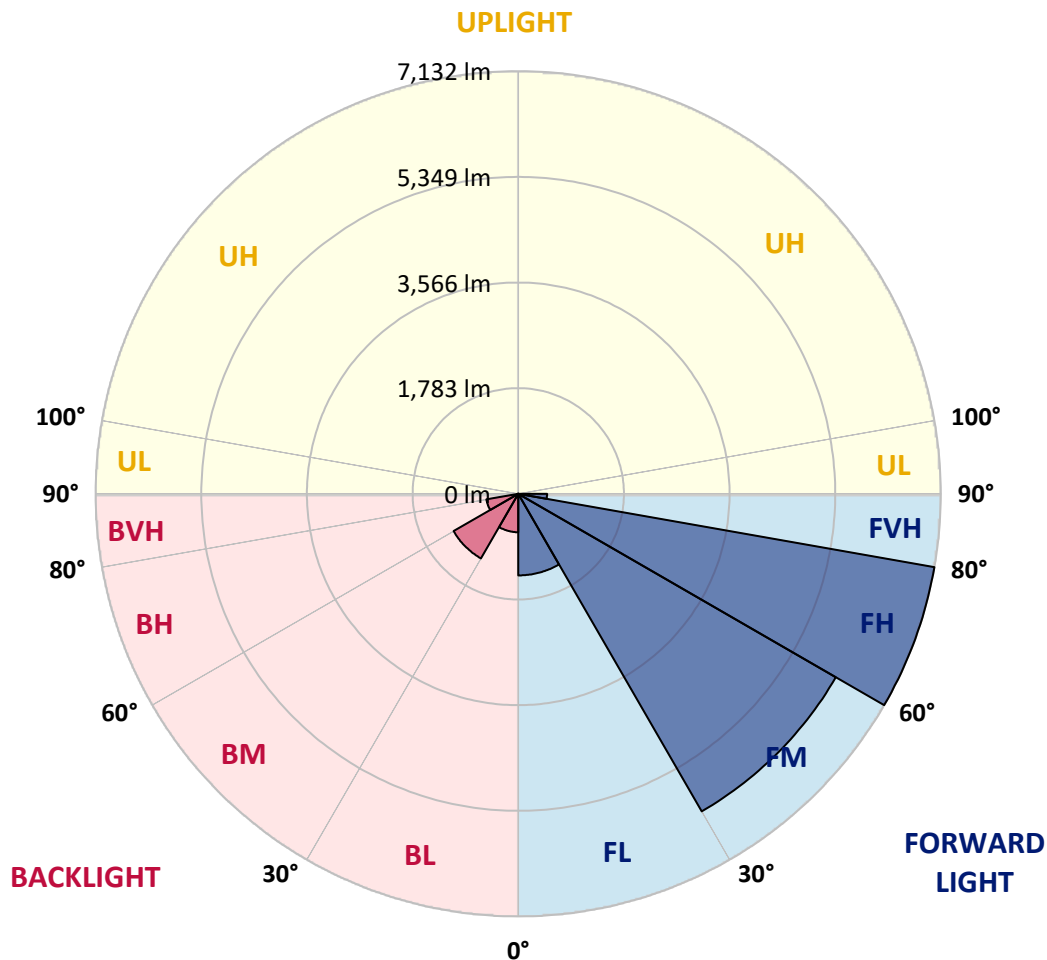
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| 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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**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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**CANDELA DISTRIBUTION (continued):**

|       | 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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