

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: P969403

Luminaire Tested: **NVN-SB5D-760-U-T2-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P969403  
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-SB5D-760-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 5700K, 900mA 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: 40704.8 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 364.9  
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

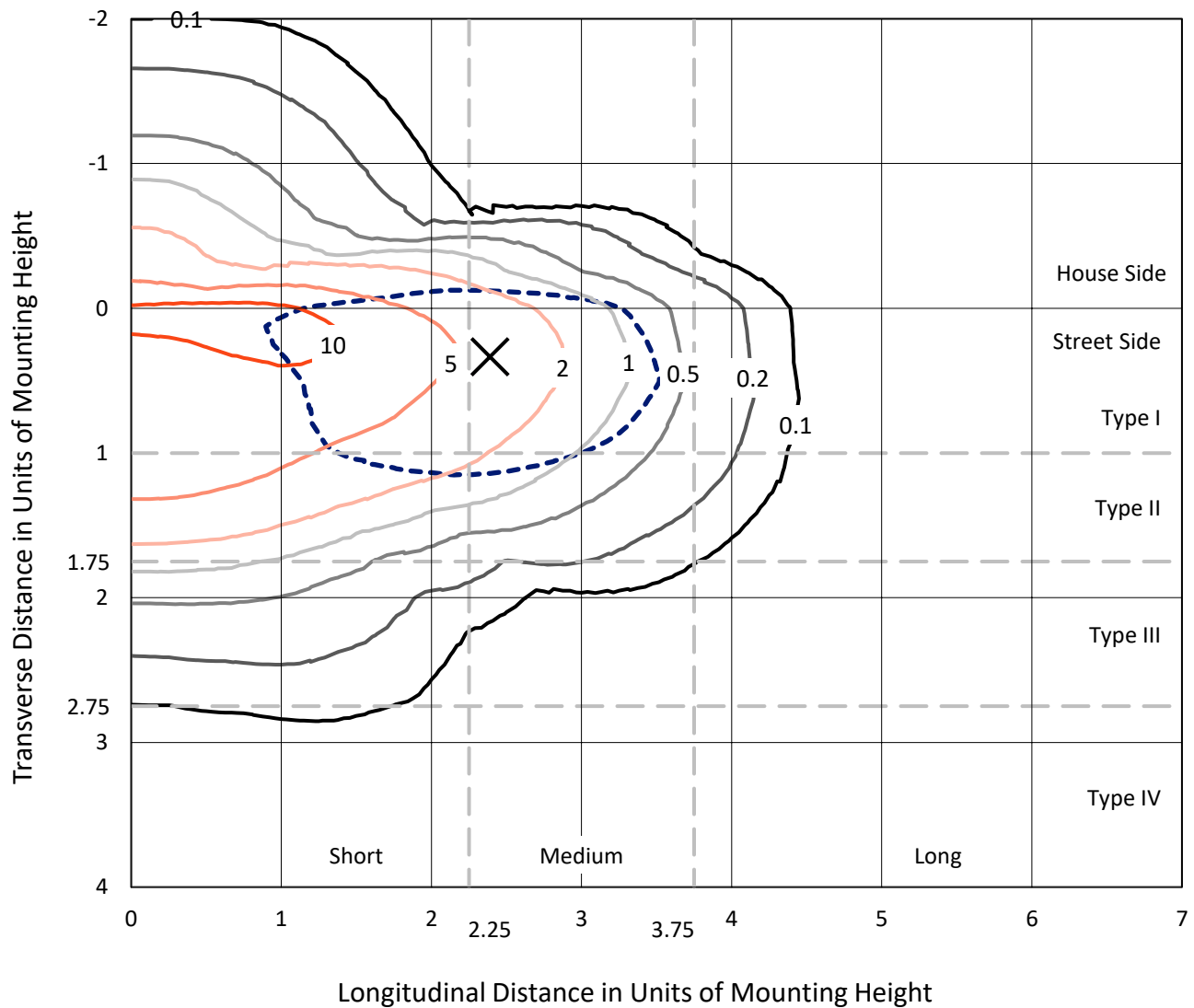


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

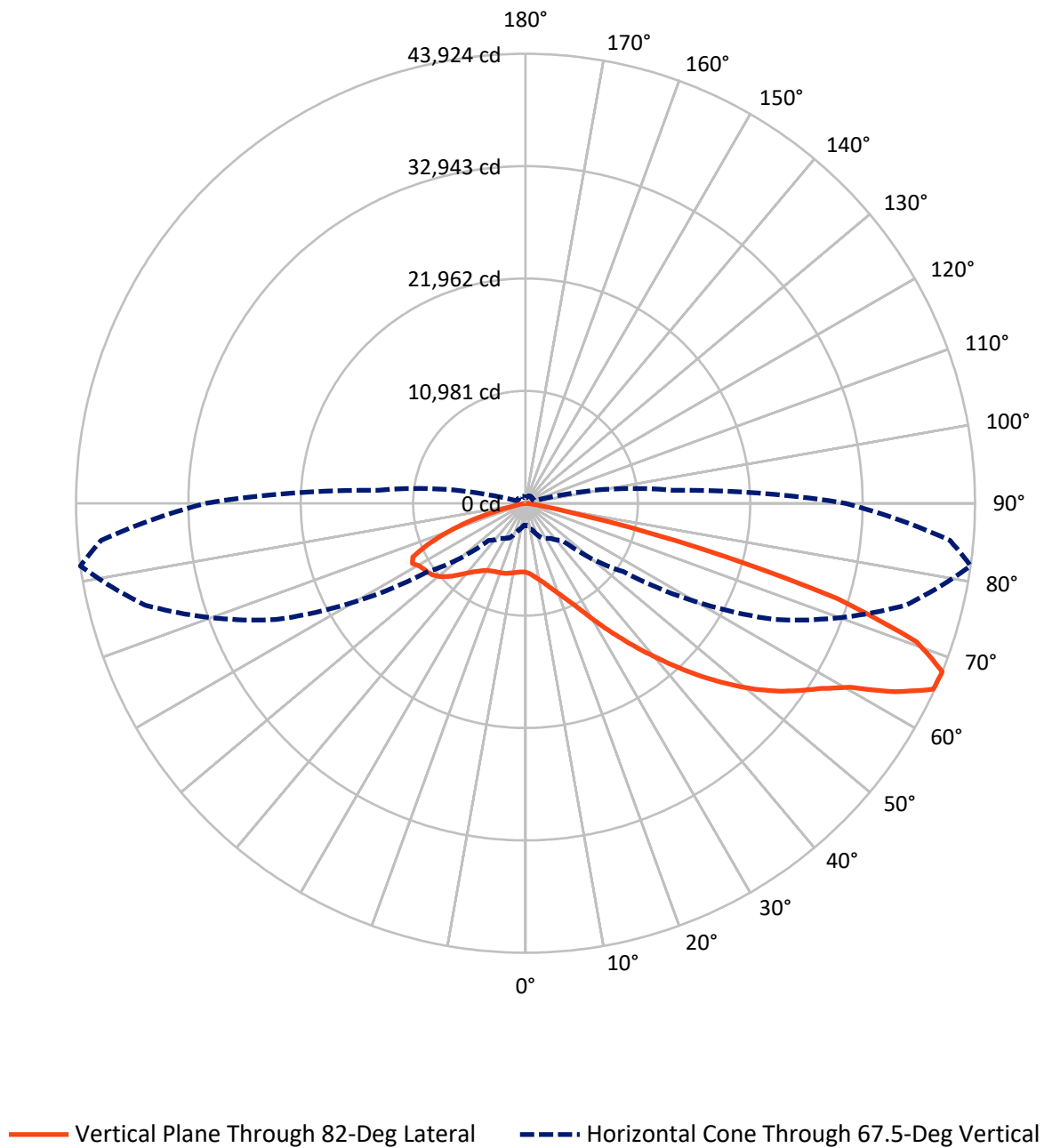


Based on 25 foot mounting height. Maximum calculated value = 14.3 fc  
Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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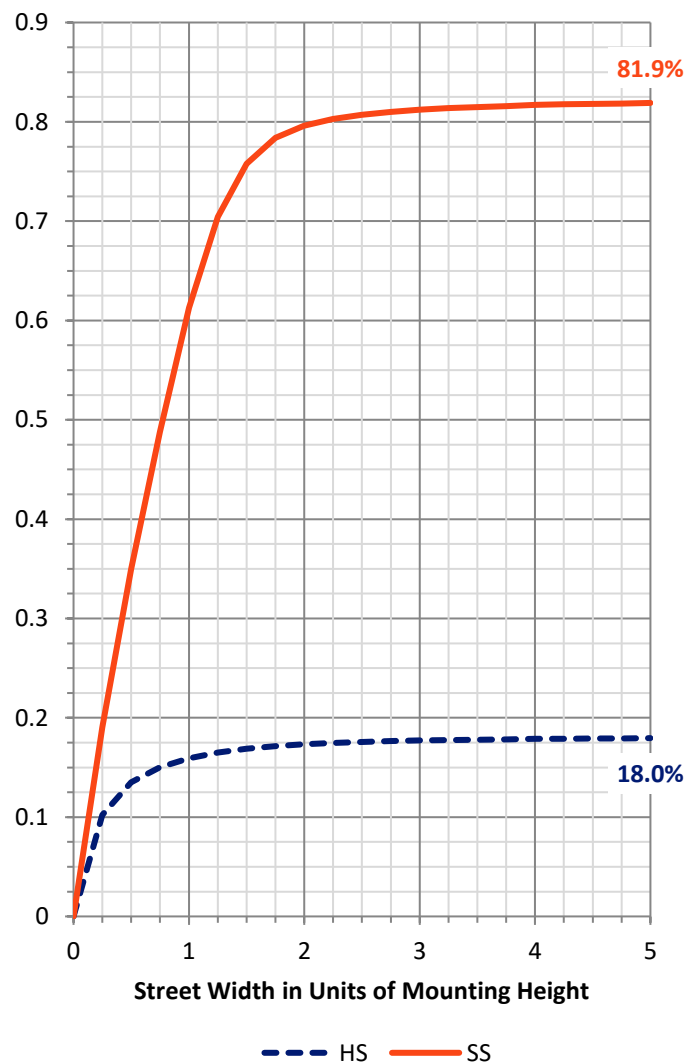
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7373.3   | 0.0    | 7373.3  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 33331.5  | 0.0    | 33331.5 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 40704.8  | 0.0    | 40704.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 600.8   | 1.5       |
| 10°-20°   | 1561.2  | 3.8       |
| 20°-30°   | 2500.6  | 6.1       |
| 30°-40°   | 4421.7  | 10.9      |
| 40°-50°   | 7747.3  | 19.0      |
| 50°-60°   | 10332.8 | 25.4      |
| 60°-70°   | 9619.3  | 23.6      |
| 70°-80°   | 3691.9  | 9.1       |
| 80°-90°   | 229.3   | 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°    | 40704.8 | 100.0     |
| 0°-180°   | 40704.8 | 100.0     |

**Coefficient of Utilization**



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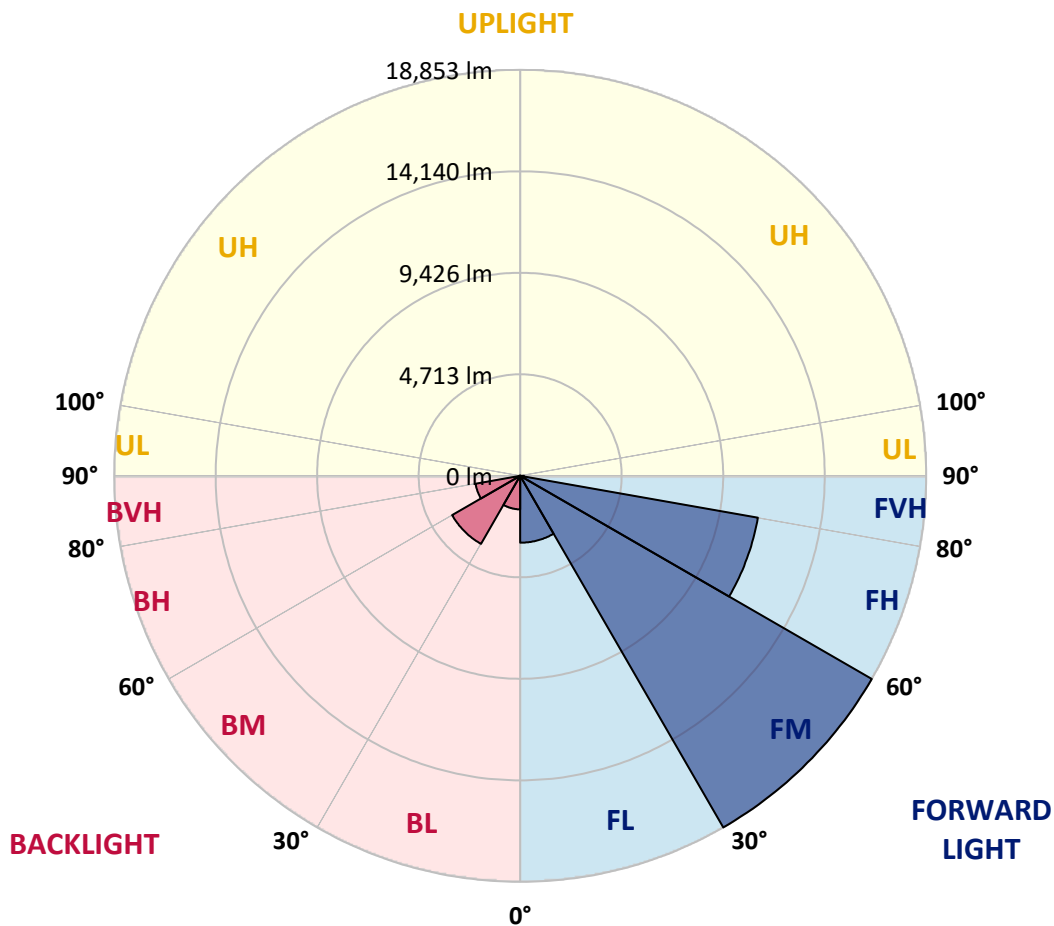
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3105.3  | 7.6       |                         |      |          |
| FM   | (30°-60°)   | 18852.8 | 46.3      |                         |      |          |
| FH   | (60°-80°)   | 11206.6 | 27.5      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 166.7   | 0.4       |                         |      | G2/225   |
| BL   | (0°-30°)    | 1557.2  | 3.8       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3649.0  | 9.0       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2104.5  | 5.2       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 62.6    | 0.2       |                         |      | G1/100   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 82°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6743.4  | 6743.4  | 6743.4  | 6743.4  | 6743.4  | 6743.4  | 6743.4  | 6743.4  | 6743.4  | 6743.4  | 6743.4  |
| 2.5°  | 7127.3  | 7168.3  | 7144.9  | 7133.2  | 7112.7  | 7083.4  | 7059.9  | 6986.6  | 6910.4  | 6860.6  | 6843.0  |
| 5°    | 7270.9  | 7311.9  | 7309.1  | 7320.8  | 7335.4  | 7344.2  | 7338.3  | 7256.3  | 7147.8  | 7062.9  | 7013.0  |
| 7.5°  | 7147.8  | 7194.7  | 7232.8  | 7291.4  | 7394.0  | 7502.5  | 7555.2  | 7537.6  | 7426.2  | 7309.1  | 7247.5  |
| 10°   | 6799.1  | 6848.9  | 6939.8  | 7077.5  | 7294.4  | 7528.8  | 7725.2  | 7816.0  | 7745.7  | 7616.8  | 7531.7  |
| 12.5° | 6160.2  | 6210.1  | 6388.8  | 6687.7  | 7051.1  | 7458.5  | 7833.6  | 8076.9  | 8094.4  | 7965.5  | 7865.8  |
| 15°   | 5442.2  | 5492.1  | 5682.5  | 6057.6  | 6611.6  | 7265.1  | 7892.2  | 8352.3  | 8507.7  | 8396.3  | 8276.2  |
| 17.5° | 4996.8  | 5040.7  | 5184.3  | 5486.2  | 6063.5  | 6878.3  | 7871.7  | 8645.4  | 9000.0  | 8912.1  | 8768.5  |
| 20°   | 4862.0  | 4900.0  | 4967.5  | 5178.4  | 5659.0  | 6476.8  | 7736.9  | 8920.9  | 9530.4  | 9480.6  | 9319.4  |
| 22.5° | 5005.6  | 5040.7  | 5061.2  | 5155.0  | 5456.9  | 6212.9  | 7567.0  | 9202.2  | 10145.9 | 10151.7 | 9955.4  |
| 25°   | 5336.7  | 5371.8  | 5348.4  | 5407.1  | 5538.9  | 6130.9  | 7502.5  | 9533.4  | 10919.5 | 10984.0 | 10761.3 |
| 27.5° | 5881.8  | 5884.7  | 5829.1  | 5826.1  | 5846.6  | 6254.0  | 7569.8  | 9888.0  | 11895.4 | 12015.7 | 11740.1 |
| 30°   | 6974.9  | 6930.9  | 6717.0  | 6485.5  | 6380.0  | 6623.2  | 7757.4  | 10307.1 | 13047.2 | 13261.1 | 12915.3 |
| 32.5° | 8660.0  | 8595.5  | 8202.9  | 7649.0  | 7092.2  | 7218.2  | 8094.4  | 10784.7 | 14301.5 | 14688.4 | 14266.4 |
| 35°   | 10488.7 | 10471.2 | 10060.9 | 9237.4  | 8264.4  | 8065.1  | 8642.5  | 11411.9 | 15670.1 | 16285.6 | 15784.5 |
| 37.5° | 12188.6 | 12179.8 | 11945.2 | 10975.3 | 9791.3  | 9246.2  | 9521.6  | 12232.5 | 17135.4 | 18026.4 | 17434.4 |
| 40°   | 13741.8 | 13768.1 | 13533.7 | 12666.2 | 11473.4 | 10761.3 | 10717.4 | 13246.5 | 18764.9 | 19922.5 | 19219.2 |
| 42.5° | 15084.0 | 15113.3 | 14875.9 | 14234.2 | 13135.2 | 12437.7 | 12185.6 | 14489.1 | 20356.2 | 21959.3 | 21127.0 |
| 45°   | 15995.4 | 16177.2 | 16142.0 | 15629.1 | 14840.8 | 14116.9 | 13949.8 | 16048.2 | 22170.3 | 24119.2 | 23143.3 |
| 47.5° | 16253.3 | 16420.4 | 16684.1 | 16754.4 | 16273.8 | 15561.8 | 15761.0 | 17926.7 | 24004.9 | 26282.0 | 25171.3 |
| 50°   | 15617.4 | 15772.7 | 16320.8 | 17050.5 | 17384.6 | 17164.8 | 17522.3 | 19940.0 | 25883.4 | 28438.9 | 27161.2 |
| 52.5° | 14363.1 | 14521.4 | 15212.9 | 16367.6 | 17730.3 | 18422.0 | 19289.5 | 21924.1 | 27703.4 | 30481.7 | 29045.6 |
| 55°   | 12549.0 | 12716.0 | 13604.0 | 14911.1 | 17071.0 | 18940.8 | 20763.6 | 23905.3 | 29370.9 | 32319.2 | 30745.4 |
| 57.5° | 10081.4 | 10204.5 | 11127.6 | 12956.4 | 15412.2 | 18425.0 | 21850.8 | 26068.1 | 30941.7 | 34124.4 | 32430.5 |
| 60°   | 6570.5  | 6678.9  | 7751.6  | 9791.3  | 12663.3 | 16701.8 | 22067.7 | 28479.9 | 33028.4 | 36471.9 | 34701.8 |
| 62.5° | 4369.6  | 4442.9  | 5078.8  | 6576.4  | 8917.9  | 13393.1 | 20798.8 | 30405.4 | 36087.9 | 40557.2 | 38596.6 |
| 65°   | 2998.0  | 3071.3  | 3707.2  | 4750.6  | 5761.6  | 8859.4  | 17150.1 | 30150.5 | 38860.3 | 43801.4 | 41483.3 |
| 67.5° | 2139.4  | 2200.9  | 2740.1  | 3724.8  | 4170.3  | 5146.2  | 11625.9 | 26891.6 | 38461.8 | 43924.4 | 41638.6 |
| 70°   | 1532.7  | 1567.9  | 2013.3  | 2901.4  | 3314.5  | 3091.8  | 6465.0  | 20567.2 | 33676.0 | 40560.1 | 38467.6 |
| 72.5° | 1072.7  | 1084.3  | 1397.9  | 2209.7  | 2669.8  | 2256.6  | 3077.2  | 13712.4 | 25470.2 | 31835.6 | 29822.2 |
| 75°   | 726.8   | 741.5   | 940.7   | 1620.6  | 2142.2  | 1723.2  | 1629.4  | 7352.9  | 14952.2 | 17621.9 | 15796.2 |
| 77.5° | 445.5   | 451.3   | 606.6   | 1107.8  | 1603.1  | 1312.9  | 1049.2  | 3115.3  | 5785.1  | 5679.6  | 4841.4  |
| 80°   | 252.0   | 252.0   | 386.8   | 688.7   | 1093.2  | 847.0   | 735.5   | 1324.6  | 1831.7  | 1608.9  | 1418.4  |
| 82.5° | 140.6   | 143.6   | 281.4   | 427.8   | 723.9   | 501.1   | 404.5   | 612.5   | 791.3   | 700.4   | 609.6   |
| 85°   | 58.6    | 64.5    | 172.9   | 202.2   | 345.8   | 249.1   | 164.1   | 257.9   | 293.0   | 260.9   | 190.4   |
| 87.5° | 5.8     | 8.8     | 52.8    | 38.1    | 41.0    | 49.8    | 23.5    | 49.8    | 41.0    | 41.0    | 29.3    |
| 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°    | 6743.4  | 6743.4  | 6743.4 | 6743.4 | 6743.4 | 6743.4 | 6743.4 | 6743.4 | 6743.4 | 6743.4 | 6743.4 |
| 2.5°  | 6787.3  | 6743.4  | 6632.1 | 6503.1 | 6333.2 | 6251.1 | 6139.6 | 6063.5 | 5999.0 | 6004.9 | 5946.2 |
| 5°    | 6919.3  | 6807.8  | 6558.8 | 6248.1 | 5861.3 | 5585.8 | 5292.7 | 5090.6 | 4926.5 | 4891.2 | 4812.1 |
| 7.5°  | 7101.0  | 6925.1  | 6488.5 | 5928.7 | 5275.2 | 4779.9 | 4337.4 | 4053.1 | 3850.8 | 3786.3 | 3721.9 |
| 10°   | 7335.4  | 7080.4  | 6397.6 | 5527.2 | 4586.5 | 3956.4 | 3481.6 | 3258.9 | 3121.1 | 3074.3 | 3039.1 |
| 12.5° | 7608.0  | 7259.2  | 6277.4 | 5037.8 | 3877.3 | 3270.6 | 2968.7 | 2857.4 | 2813.4 | 2798.8 | 2789.9 |
| 15°   | 7950.8  | 7481.9  | 6095.8 | 4457.5 | 3276.4 | 2851.5 | 2722.6 | 2707.9 | 2713.8 | 2707.9 | 2705.0 |
| 17.5° | 8358.2  | 7725.2  | 5799.8 | 3859.6 | 2872.0 | 2637.5 | 2590.7 | 2602.4 | 2617.0 | 2614.2 | 2608.3 |
| 20°   | 8803.6  | 7965.5  | 5421.7 | 3329.2 | 2596.5 | 2485.2 | 2458.8 | 2470.6 | 2482.2 | 2476.4 | 2473.4 |
| 22.5° | 9310.7  | 8223.4  | 5002.6 | 2916.0 | 2411.9 | 2344.5 | 2315.2 | 2318.1 | 2318.1 | 2306.5 | 2300.5 |
| 25°   | 9917.3  | 8507.7  | 4563.0 | 2623.0 | 2271.3 | 2218.5 | 2183.4 | 2171.6 | 2154.0 | 2118.9 | 2113.0 |
| 27.5° | 10641.1 | 8809.5  | 4141.0 | 2417.8 | 2159.9 | 2110.1 | 2069.1 | 2039.7 | 1995.8 | 1937.1 | 1931.3 |
| 30°   | 11455.9 | 9175.8  | 3783.5 | 2288.8 | 2071.9 | 2022.1 | 1975.3 | 1931.3 | 1866.8 | 1793.5 | 1787.7 |
| 32.5° | 12414.2 | 9568.6  | 3522.6 | 2203.9 | 1992.8 | 1940.1 | 1884.4 | 1831.7 | 1761.4 | 1688.1 | 1690.9 |
| 35°   | 13557.2 | 10043.4 | 3370.2 | 2145.2 | 1931.3 | 1861.0 | 1799.4 | 1740.8 | 1688.1 | 1623.6 | 1617.8 |
| 37.5° | 14796.8 | 10547.4 | 3323.4 | 2115.9 | 1890.3 | 1781.9 | 1711.5 | 1670.4 | 1664.6 | 1626.5 | 1623.6 |
| 40°   | 16153.7 | 11145.2 | 3358.5 | 2098.4 | 1846.3 | 1705.6 | 1629.4 | 1620.6 | 1635.3 | 1567.9 | 1570.8 |
| 42.5° | 17589.7 | 11854.4 | 3417.1 | 2077.8 | 1784.7 | 1629.4 | 1556.2 | 1556.2 | 1544.5 | 1450.7 | 1450.7 |
| 45°   | 19143.0 | 12672.1 | 3475.8 | 2028.0 | 1711.5 | 1553.3 | 1497.5 | 1477.0 | 1427.2 | 1336.4 | 1333.4 |
| 47.5° | 20707.9 | 13504.4 | 3519.7 | 1937.1 | 1623.6 | 1488.8 | 1438.9 | 1392.1 | 1318.8 | 1236.8 | 1233.8 |
| 50°   | 22193.7 | 14251.7 | 3472.8 | 1802.4 | 1524.0 | 1427.2 | 1374.4 | 1309.9 | 1230.8 | 1175.2 | 1166.3 |
| 52.5° | 23521.3 | 14899.4 | 3273.5 | 1644.1 | 1418.4 | 1362.7 | 1315.9 | 1248.4 | 1184.0 | 1125.3 | 1119.5 |
| 55°   | 24676.1 | 15424.0 | 2921.9 | 1494.7 | 1324.6 | 1307.1 | 1260.1 | 1175.2 | 1087.2 | 1037.4 | 1031.6 |
| 57.5° | 25783.8 | 15822.5 | 2482.2 | 1371.6 | 1239.6 | 1245.5 | 1175.2 | 1099.0 | 1016.9 | 964.2  | 958.3  |
| 60°   | 27257.9 | 16355.9 | 2036.8 | 1257.3 | 1148.8 | 1166.3 | 1090.2 | 1034.5 | 931.9  | 864.6  | 855.8  |
| 62.5° | 29614.1 | 17185.3 | 1617.8 | 1116.5 | 1043.3 | 1049.2 | 1016.9 | 949.6  | 826.5  | 747.3  | 741.5  |
| 65°   | 31483.9 | 16880.5 | 1274.8 | 964.2  | 923.1  | 931.9  | 931.9  | 858.6  | 726.8  | 635.9  | 627.2  |
| 67.5° | 31272.9 | 14453.9 | 1016.9 | 814.7  | 808.8  | 814.7  | 835.3  | 773.7  | 644.7  | 571.4  | 559.8  |
| 70°   | 28808.2 | 11496.9 | 814.7  | 677.0  | 703.4  | 688.7  | 747.3  | 706.3  | 580.3  | 507.0  | 498.3  |
| 72.5° | 23506.6 | 8282.0  | 621.3  | 559.8  | 539.3  | 562.7  | 674.0  | 635.9  | 483.6  | 401.5  | 392.7  |
| 75°   | 13735.9 | 4419.4  | 463.0  | 442.5  | 389.8  | 468.9  | 597.9  | 542.1  | 369.3  | 296.0  | 287.2  |
| 77.5° | 4472.2  | 1541.5  | 340.0  | 325.3  | 290.2  | 378.0  | 509.9  | 457.2  | 301.9  | 234.4  | 225.7  |
| 80°   | 1198.6  | 466.0   | 231.5  | 213.9  | 187.6  | 281.4  | 404.5  | 363.4  | 216.9  | 152.4  | 149.4  |
| 82.5° | 480.6   | 196.4   | 134.8  | 120.1  | 102.6  | 193.4  | 319.4  | 293.0  | 161.2  | 96.8   | 96.8   |
| 85°   | 155.3   | 64.5    | 49.8   | 38.1   | 46.8   | 120.1  | 190.4  | 199.3  | 114.3  | 49.8   | 38.1   |
| 87.5° | 20.5    | 8.8     | 8.8    | 11.7   | 8.8    | 20.5   | 58.6   | 55.7   | 32.3   | 5.8    | 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)