

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: P969870

Luminaire Tested: **NVN-SB6A-740-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969870  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6A-740-U-T2R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

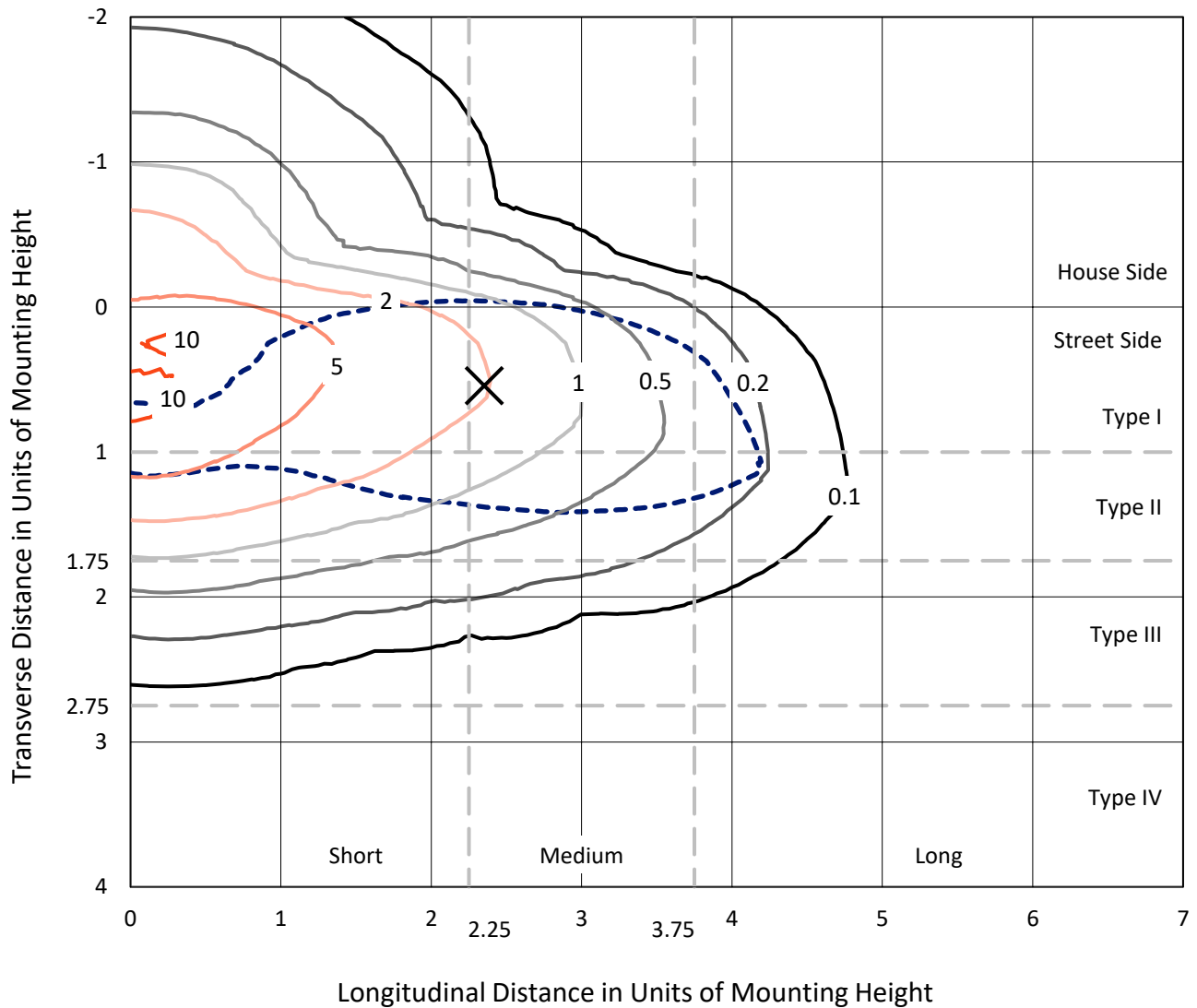
Lumens per Lamp: N/A  
Luminaire Lumens: 30045.8 lumens  
Efficiency: N/A  
Efficacy: 175.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): 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

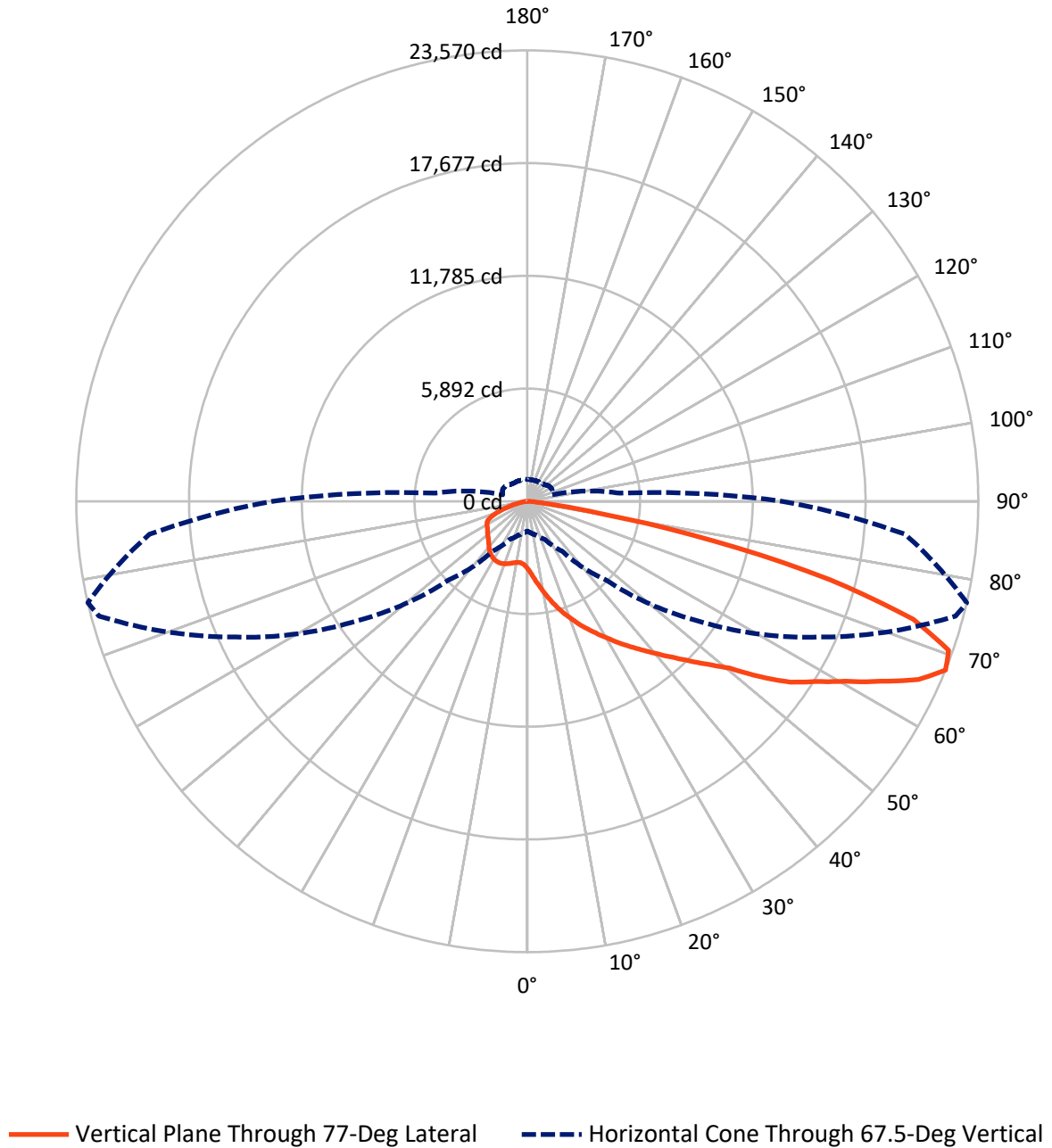
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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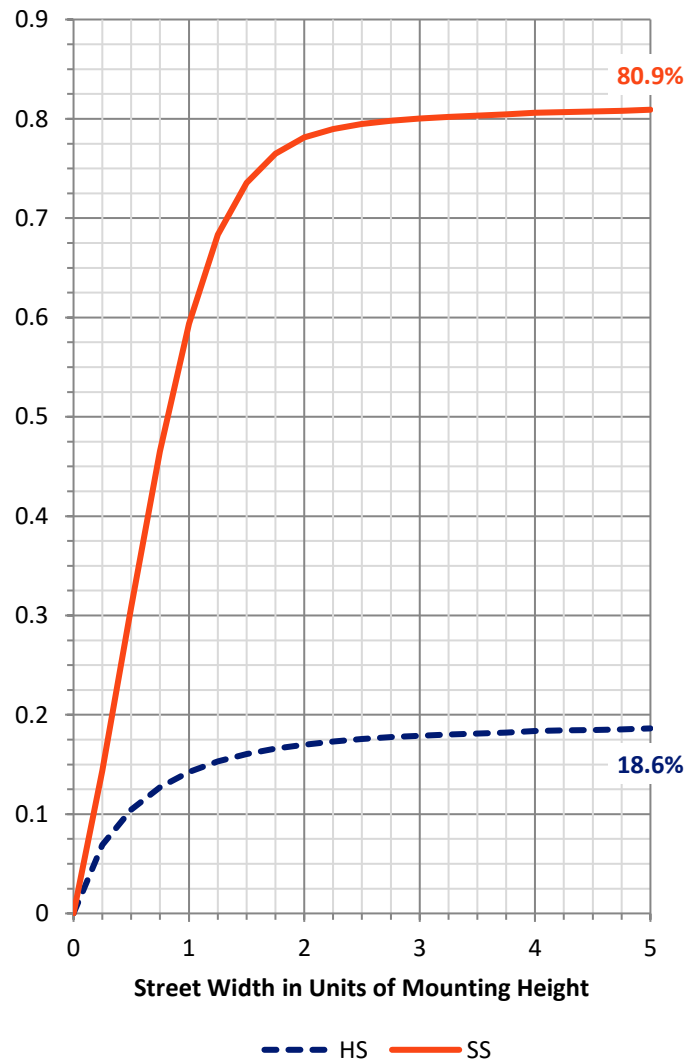
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5683.5   | 0.0    | 5683.5  |
|                    | % Fixture | 18.9     | 0.0    | 18.9    |
| <b>Street Side</b> | Lumens    | 24362.4  | 0.0    | 24362.4 |
|                    | % Fixture | 81.1     | 0.0    | 81.1    |
| <b>Total</b>       | Lumens    | 30045.8  | 0.0    | 30045.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 377.9   | 1.3       |
| 10°-20°   | 1357.5  | 4.5       |
| 20°-30°   | 2563.1  | 8.5       |
| 30°-40°   | 4129.2  | 13.7      |
| 40°-50°   | 5647.9  | 18.8      |
| 50°-60°   | 6370.9  | 21.2      |
| 60°-70°   | 5946.5  | 19.8      |
| 70°-80°   | 3259.7  | 10.8      |
| 80°-90°   | 393.2   | 1.3       |
| 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°    | 30045.8 | 100.0     |
| 0°-180°   | 30045.8 | 100.0     |

**Coefficient of Utilization**



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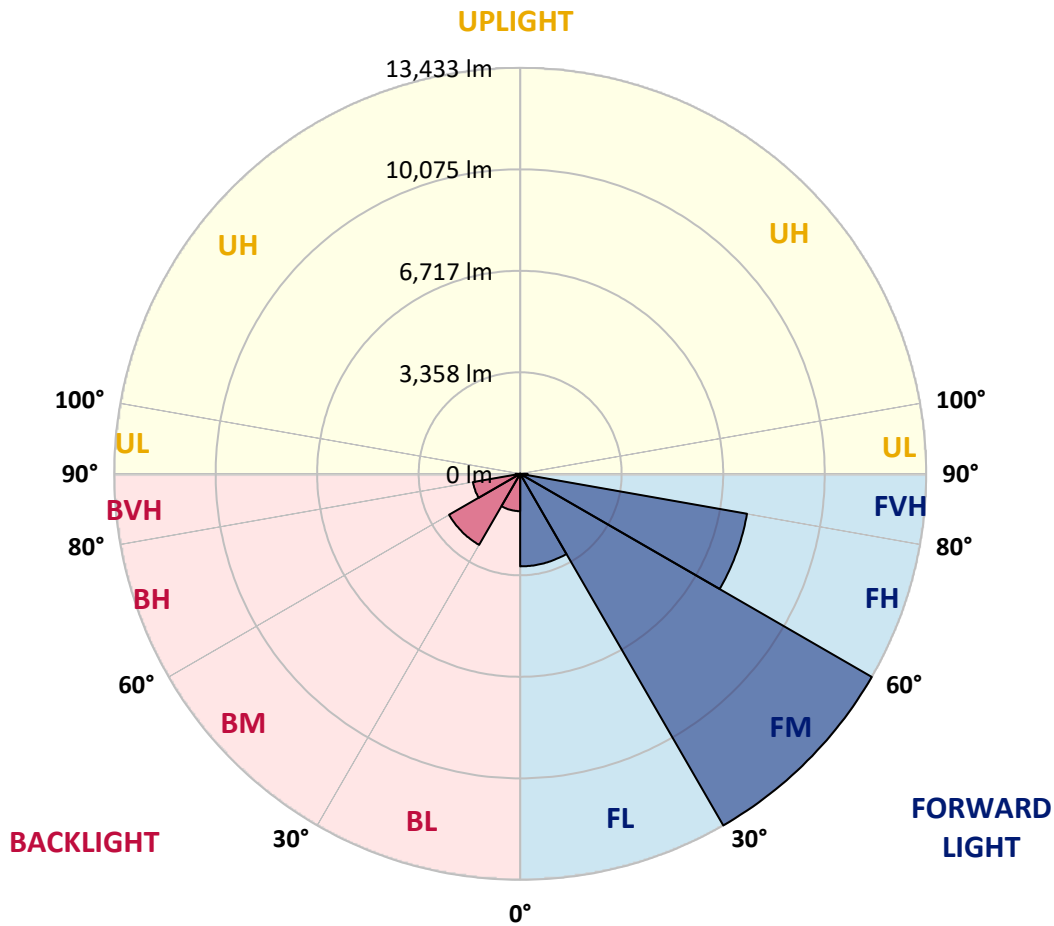
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3062.8  | 10.2      |                         |      |          |
| FM (30°-60°)   | 13433.2 | 44.7      |                         |      |          |
| FH (60°-80°)   | 7620.5  | 25.4      |                         |      | G4/12000 |
| FVH (80°-90°)  | 245.9   | 0.8       |                         |      | G3/500   |
| BL (0°-30°)    | 1235.7  | 4.1       | B3/2500                 |      |          |
| BM (30°-60°)   | 2714.8  | 9.0       | B3/5000                 |      |          |
| BH (60°-80°)   | 1585.6  | 5.3       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 147.3   | 0.5       |                         |      | G2/225   |
| 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°     | 77°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3525.3  | 3525.3  | 3525.3  | 3525.3  | 3525.3  | 3525.3  | 3525.3  | 3525.3  | 3525.3  | 3525.3  | 3525.3  |
| 2.5°  | 4414.0  | 4445.0  | 4406.3  | 4406.3  | 4276.0  | 4207.7  | 4077.4  | 3978.2  | 3799.8  | 3768.8  | 3650.9  |
| 5°    | 5217.4  | 5256.2  | 5201.9  | 5178.6  | 5025.1  | 4883.9  | 4665.3  | 4449.6  | 4131.8  | 4099.2  | 3821.5  |
| 7.5°  | 5839.3  | 5888.9  | 5840.9  | 5816.1  | 5679.6  | 5521.4  | 5265.4  | 4964.6  | 4516.4  | 4452.8  | 4051.1  |
| 10°   | 6346.5  | 6354.3  | 6338.7  | 6348.0  | 6241.0  | 6110.7  | 5848.6  | 5498.1  | 4938.2  | 4851.3  | 4328.7  |
| 12.5° | 6633.4  | 6669.1  | 6700.1  | 6756.0  | 6737.3  | 6656.7  | 6420.9  | 6002.2  | 5384.9  | 5273.2  | 4631.2  |
| 15°   | 6768.4  | 6830.4  | 6900.2  | 7028.9  | 7132.8  | 7153.0  | 6973.1  | 6543.5  | 5839.3  | 5704.4  | 4936.7  |
| 17.5° | 6816.5  | 6875.4  | 6985.5  | 7171.6  | 7395.0  | 7545.3  | 7464.8  | 7069.2  | 6289.1  | 6134.0  | 5257.7  |
| 20°   | 7059.9  | 7077.0  | 7143.6  | 7320.4  | 7562.4  | 7812.1  | 7872.6  | 7574.9  | 6734.2  | 6559.0  | 5589.6  |
| 22.5° | 7581.0  | 7547.0  | 7565.5  | 7646.2  | 7819.9  | 8061.8  | 8199.9  | 8021.5  | 7191.7  | 6990.1  | 5924.6  |
| 25°   | 8441.8  | 8342.6  | 8243.3  | 8150.3  | 8238.6  | 8375.2  | 8531.8  | 8468.1  | 7671.0  | 7415.1  | 6262.7  |
| 27.5° | 9529.0  | 9408.1  | 9189.3  | 8883.9  | 8776.9  | 8824.9  | 8894.7  | 8882.2  | 8114.6  | 7855.6  | 6611.7  |
| 30°   | 10599.2 | 10458.1 | 10197.5 | 9755.4  | 9473.2  | 9346.1  | 9293.3  | 9257.6  | 8596.9  | 8320.8  | 6963.7  |
| 32.5° | 11453.8 | 11342.1 | 11086.2 | 10591.4 | 10181.9 | 9964.8  | 9789.6  | 9662.4  | 9101.0  | 8824.9  | 7336.0  |
| 35°   | 12201.3 | 12097.4 | 11804.3 | 11264.5 | 10819.4 | 10588.4 | 10358.8 | 10087.3 | 9625.2  | 9346.1  | 7736.2  |
| 37.5° | 12883.7 | 12779.8 | 12378.1 | 11816.7 | 11368.5 | 11208.7 | 11004.0 | 10543.4 | 10151.0 | 9887.4  | 8159.5  |
| 40°   | 13314.9 | 13291.7 | 12916.3 | 12280.4 | 11815.2 | 11736.0 | 11667.8 | 11072.3 | 10734.1 | 10489.0 | 8624.9  |
| 42.5° | 13425.0 | 13476.2 | 13178.4 | 12655.8 | 12212.2 | 12148.6 | 12308.3 | 11670.9 | 11388.7 | 11154.5 | 9152.1  |
| 45°   | 13159.8 | 13307.2 | 13111.7 | 12756.5 | 12494.4 | 12460.3 | 12875.9 | 12325.4 | 12112.9 | 11898.9 | 9788.0  |
| 47.5° | 12488.3 | 12738.0 | 12657.3 | 12607.7 | 12570.5 | 12717.8 | 13375.4 | 13020.3 | 12933.3 | 12747.2 | 10513.9 |
| 50°   | 11132.7 | 11605.8 | 11746.9 | 12060.2 | 12420.0 | 12917.9 | 13829.8 | 13778.7 | 13891.8 | 13704.1 | 11397.9 |
| 52.5° | 8789.3  | 9440.7  | 10259.5 | 11044.3 | 11957.9 | 12851.1 | 14329.2 | 14867.4 | 15345.1 | 15242.8 | 12803.1 |
| 55°   | 7255.4  | 7548.5  | 8178.2  | 9617.5  | 11061.4 | 12570.5 | 14554.1 | 15746.8 | 16787.4 | 16696.0 | 13868.6 |
| 57.5° | 6076.6  | 6338.7  | 6726.5  | 7928.5  | 9705.8  | 11933.0 | 14693.7 | 16283.5 | 17775.4 | 17766.1 | 14920.1 |
| 60°   | 4812.6  | 5090.3  | 5487.2  | 6338.7  | 8122.3  | 10831.8 | 14662.7 | 16894.5 | 19036.4 | 19113.9 | 16202.8 |
| 62.5° | 3385.7  | 3691.2  | 4131.8  | 4925.8  | 6504.6  | 9405.0  | 14029.9 | 17336.5 | 20520.6 | 20731.5 | 17745.9 |
| 65°   | 2225.6  | 2427.2  | 2759.1  | 3444.6  | 4846.7  | 7570.1  | 12821.7 | 17393.9 | 22108.7 | 22465.5 | 19194.6 |
| 67.5° | 1560.3  | 1637.8  | 1833.2  | 2205.5  | 3194.9  | 5805.2  | 10897.0 | 16799.9 | 23168.1 | 23569.8 | 19822.7 |
| 70°   | 1217.5  | 1256.2  | 1355.6  | 1504.4  | 2007.0  | 3903.7  | 8350.3  | 15255.2 | 22941.7 | 23360.4 | 19166.7 |
| 72.5° | 1051.5  | 1088.8  | 1126.0  | 1144.6  | 1346.2  | 2410.2  | 5656.4  | 12755.0 | 20809.1 | 21093.0 | 16665.0 |
| 75°   | 953.9   | 963.1   | 994.1   | 988.0   | 1026.7  | 1563.3  | 3264.7  | 9293.3  | 16418.3 | 16320.7 | 12302.2 |
| 77.5° | 801.9   | 814.3   | 865.4   | 857.7   | 911.9   | 1068.6  | 1695.1  | 5997.5  | 10644.2 | 9980.3  | 6847.4  |
| 80°   | 679.3   | 685.5   | 741.4   | 732.1   | 792.5   | 773.9   | 865.4   | 3057.0  | 4514.8  | 3824.7  | 1974.4  |
| 82.5° | 235.7   | 291.6   | 566.1   | 583.1   | 604.9   | 468.4   | 499.4   | 1246.9  | 1378.8  | 1056.2  | 414.1   |
| 85°   | 114.8   | 122.5   | 288.4   | 409.5   | 408.0   | 235.7   | 243.5   | 445.2   | 434.3   | 341.2   | 138.1   |
| 87.5° | 18.7    | 23.3    | 34.1    | 159.8   | 127.2   | 62.0    | 83.7    | 86.8    | 90.0    | 77.6    | 31.1    |
| 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°    | 3525.3  | 3525.3 | 3525.3 | 3525.3 | 3525.3 | 3525.3 | 3525.3 | 3525.3 | 3525.3 | 3525.3 | 3525.3 |
| 2.5°  | 3564.1  | 3486.5 | 3323.7 | 3173.2 | 3055.3 | 2942.2 | 2878.6 | 2824.3 | 2793.2 | 2787.1 | 2787.1 |
| 5°    | 3660.3  | 3500.5 | 3204.3 | 2954.6 | 2791.7 | 2670.7 | 2607.2 | 2566.8 | 2546.6 | 2534.2 | 2532.7 |
| 7.5°  | 3798.2  | 3564.1 | 3142.2 | 2858.4 | 2687.8 | 2600.9 | 2568.3 | 2562.2 | 2560.7 | 2562.2 | 2566.8 |
| 10°   | 3989.0  | 3668.0 | 3136.0 | 2835.1 | 2692.5 | 2644.4 | 2642.9 | 2644.4 | 2650.5 | 2652.1 | 2653.7 |
| 12.5° | 4195.3  | 3775.0 | 3160.8 | 2855.3 | 2751.4 | 2725.1 | 2720.4 | 2718.8 | 2723.4 | 2726.6 | 2728.1 |
| 15°   | 4420.2  | 3916.1 | 3202.7 | 2898.7 | 2816.5 | 2788.6 | 2784.0 | 2774.7 | 2773.1 | 2771.5 | 2770.0 |
| 17.5° | 4651.3  | 4055.7 | 3249.2 | 2945.2 | 2858.4 | 2819.7 | 2802.6 | 2780.8 | 2763.8 | 2759.1 | 2763.8 |
| 20°   | 4885.5  | 4193.8 | 3281.8 | 2968.5 | 2861.5 | 2807.3 | 2773.1 | 2735.8 | 2706.4 | 2689.4 | 2695.5 |
| 22.5° | 5135.1  | 4338.0 | 3301.9 | 2962.4 | 2833.6 | 2759.1 | 2697.1 | 2653.7 | 2608.7 | 2579.2 | 2580.7 |
| 25°   | 5378.7  | 4463.7 | 3300.4 | 2929.8 | 2779.3 | 2684.7 | 2605.5 | 2549.8 | 2487.7 | 2456.7 | 2456.7 |
| 27.5° | 5612.9  | 4576.8 | 3261.7 | 2872.4 | 2701.8 | 2596.3 | 2501.7 | 2435.0 | 2374.5 | 2345.0 | 2343.5 |
| 30°   | 5854.8  | 4671.4 | 3201.2 | 2788.6 | 2610.3 | 2493.9 | 2390.0 | 2332.6 | 2278.4 | 2250.4 | 2248.8 |
| 32.5° | 6095.3  | 4758.4 | 3115.9 | 2684.7 | 2504.8 | 2393.1 | 2290.8 | 2238.0 | 2205.5 | 2205.5 | 2207.0 |
| 35°   | 6349.6  | 4818.8 | 3002.6 | 2563.7 | 2393.1 | 2286.1 | 2205.5 | 2174.4 | 2171.4 | 2152.7 | 2148.1 |
| 37.5° | 6617.9  | 4857.6 | 2864.6 | 2439.6 | 2283.0 | 2182.2 | 2157.4 | 2120.1 | 2089.2 | 2048.8 | 2042.6 |
| 40°   | 6900.2  | 4896.3 | 2698.6 | 2311.0 | 2166.6 | 2110.9 | 2100.0 | 2050.3 | 1962.0 | 1862.7 | 1848.7 |
| 42.5° | 7243.0  | 4922.7 | 2526.5 | 2182.2 | 2044.2 | 2025.5 | 2041.1 | 1955.7 | 1814.7 | 1740.1 | 1741.7 |
| 45°   | 7639.9  | 4966.1 | 2368.3 | 2055.0 | 1918.5 | 1918.5 | 1983.7 | 1872.0 | 1755.7 | 1709.2 | 1716.9 |
| 47.5° | 8154.9  | 5067.0 | 2221.0 | 1915.4 | 1802.2 | 1833.2 | 1856.5 | 1771.2 | 1706.0 | 1648.6 | 1647.1 |
| 50°   | 8899.4  | 5308.9 | 2069.0 | 1774.3 | 1713.8 | 1775.8 | 1743.2 | 1693.6 | 1617.7 | 1571.1 | 1566.5 |
| 52.5° | 9823.7  | 5451.6 | 1934.1 | 1647.1 | 1637.8 | 1699.9 | 1653.3 | 1606.8 | 1549.4 | 1487.4 | 1475.0 |
| 55°   | 10453.4 | 5477.9 | 1820.8 | 1554.0 | 1586.6 | 1580.4 | 1563.3 | 1521.5 | 1490.5 | 1408.2 | 1409.8 |
| 57.5° | 11157.5 | 5530.7 | 1727.7 | 1498.2 | 1554.0 | 1485.8 | 1479.6 | 1443.9 | 1403.6 | 1347.8 | 1329.1 |
| 60°   | 11999.7 | 5612.9 | 1647.1 | 1476.5 | 1526.1 | 1423.7 | 1392.8 | 1378.8 | 1338.4 | 1310.6 | 1318.4 |
| 62.5° | 12917.9 | 5687.3 | 1564.9 | 1479.6 | 1493.5 | 1363.2 | 1316.7 | 1312.1 | 1287.3 | 1278.0 | 1278.0 |
| 65°   | 13544.5 | 5484.2 | 1462.6 | 1476.5 | 1442.4 | 1301.2 | 1242.3 | 1240.8 | 1220.6 | 1217.5 | 1216.0 |
| 67.5° | 13325.7 | 4840.6 | 1324.5 | 1433.1 | 1389.7 | 1239.2 | 1174.0 | 1167.9 | 1141.5 | 1143.1 | 1143.1 |
| 70°   | 12230.8 | 3922.4 | 1133.8 | 1326.0 | 1324.5 | 1183.4 | 1102.7 | 1082.6 | 1046.9 | 1053.1 | 1059.3 |
| 72.5° | 10177.3 | 2906.5 | 877.8  | 1147.7 | 1220.6 | 1132.2 | 1020.5 | 988.0  | 943.0  | 949.1  | 947.6  |
| 75°   | 7350.0  | 1975.9 | 639.0  | 873.2  | 1062.4 | 1071.7 | 939.9  | 884.1  | 829.7  | 839.1  | 842.1  |
| 77.5° | 3761.0  | 1119.8 | 470.0  | 601.8  | 834.5  | 974.0  | 866.9  | 792.5  | 780.1  | 866.9  | 854.5  |
| 80°   | 1226.8  | 561.5  | 325.7  | 421.9  | 547.5  | 797.1  | 759.9  | 674.7  | 671.6  | 691.8  | 594.0  |
| 82.5° | 366.0   | 237.3  | 209.4  | 277.6  | 302.5  | 611.1  | 656.1  | 510.2  | 438.9  | 462.2  | 477.6  |
| 85°   | 125.7   | 114.8  | 119.4  | 138.1  | 144.2  | 358.2  | 459.1  | 338.1  | 319.5  | 352.1  | 347.4  |
| 87.5° | 29.4    | 40.3   | 34.1   | 31.1   | 31.1   | 86.8   | 178.4  | 141.1  | 195.5  | 130.3  | 125.7  |
| 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)