

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: P964755

Luminaire Tested: **NVN-SB3C-835-U-T2R**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P964755  
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-SB3C-835-U-T2R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 21758.7 lumens  
Efficiency: N/A  
Efficacy: 145.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 149.1  
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



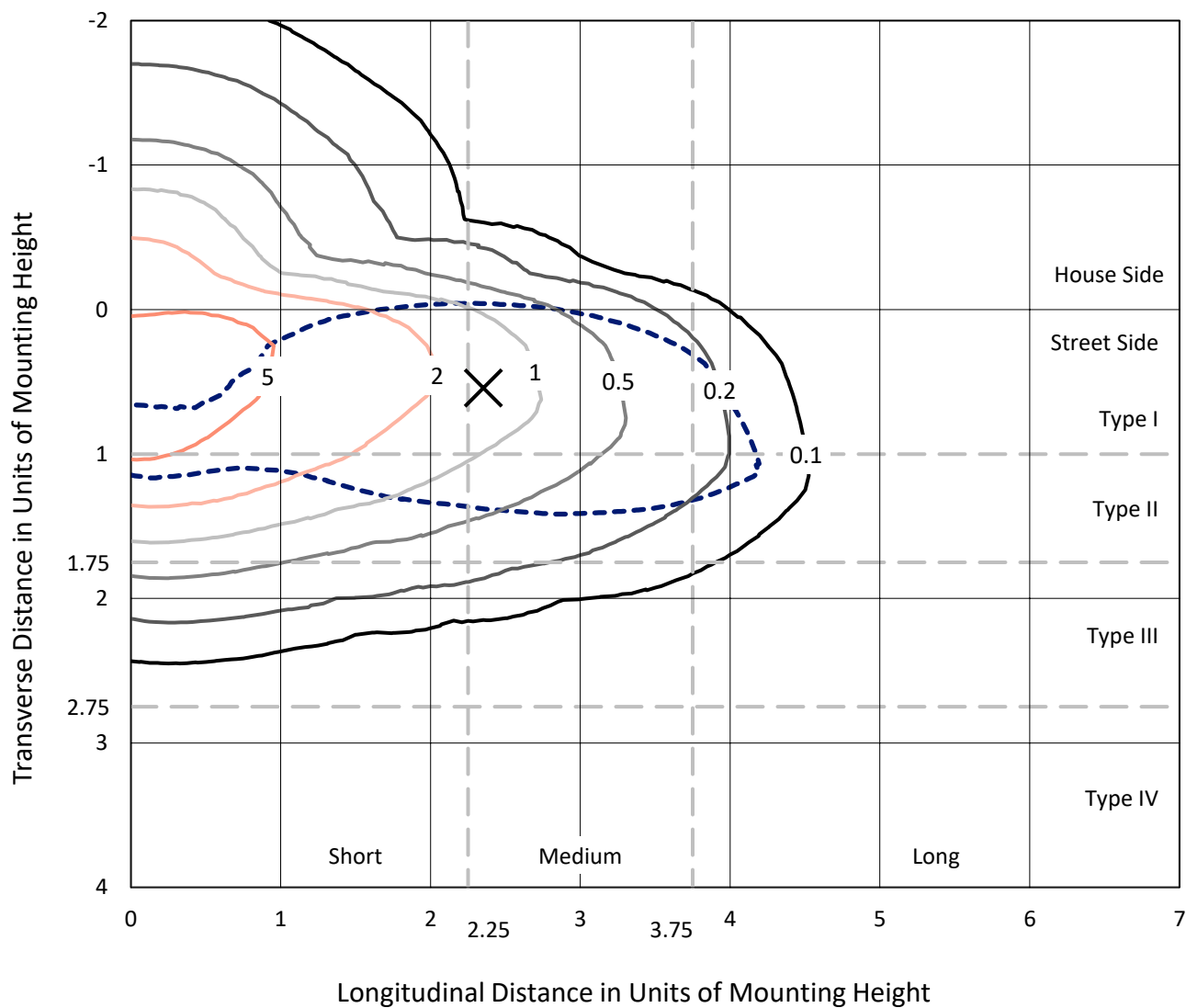
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

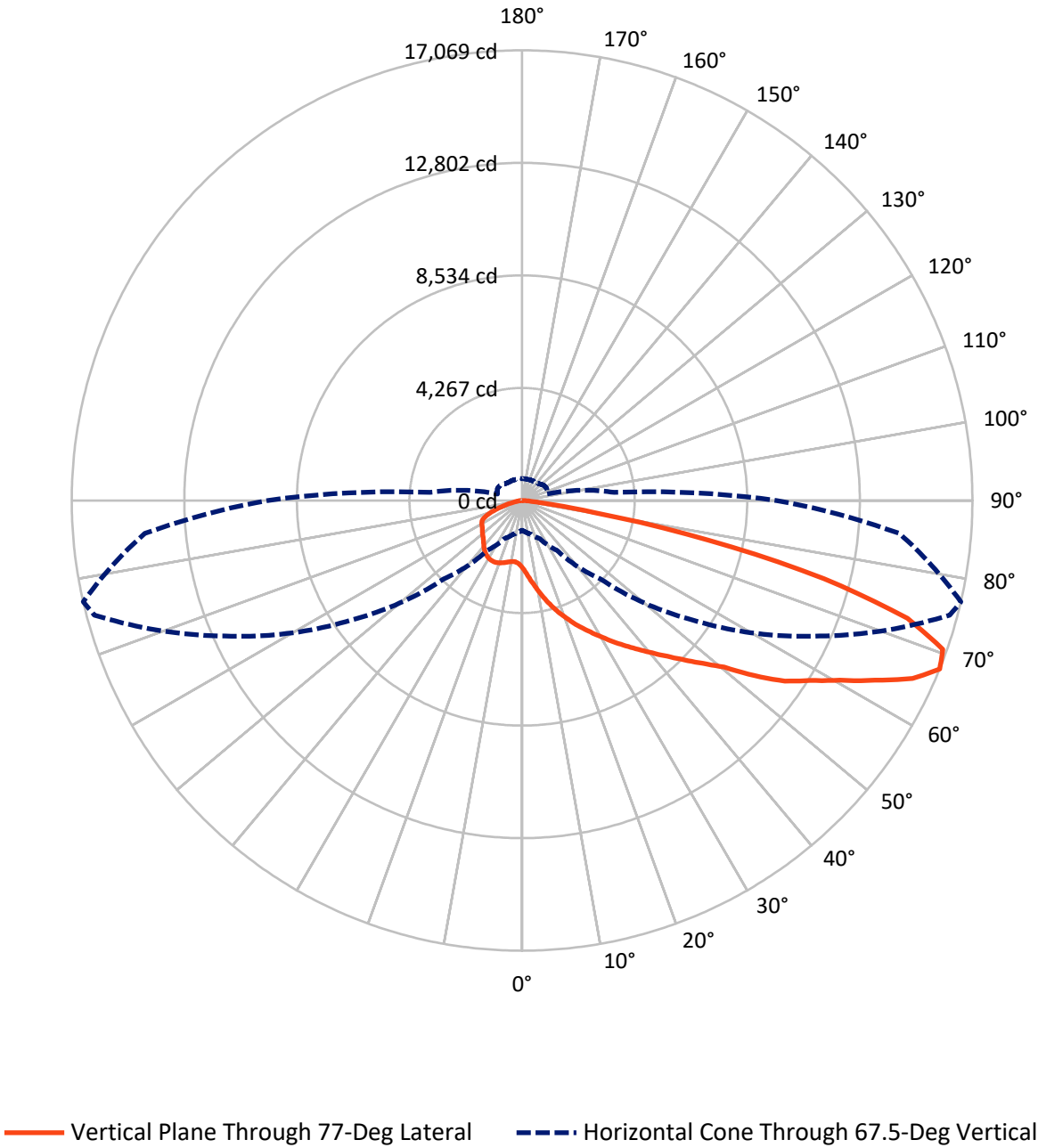


Based on 25 foot mounting height. Maximum calculated value = 8 fc

Type II - Medium - N/A

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Luminous Intensity Polar Plot



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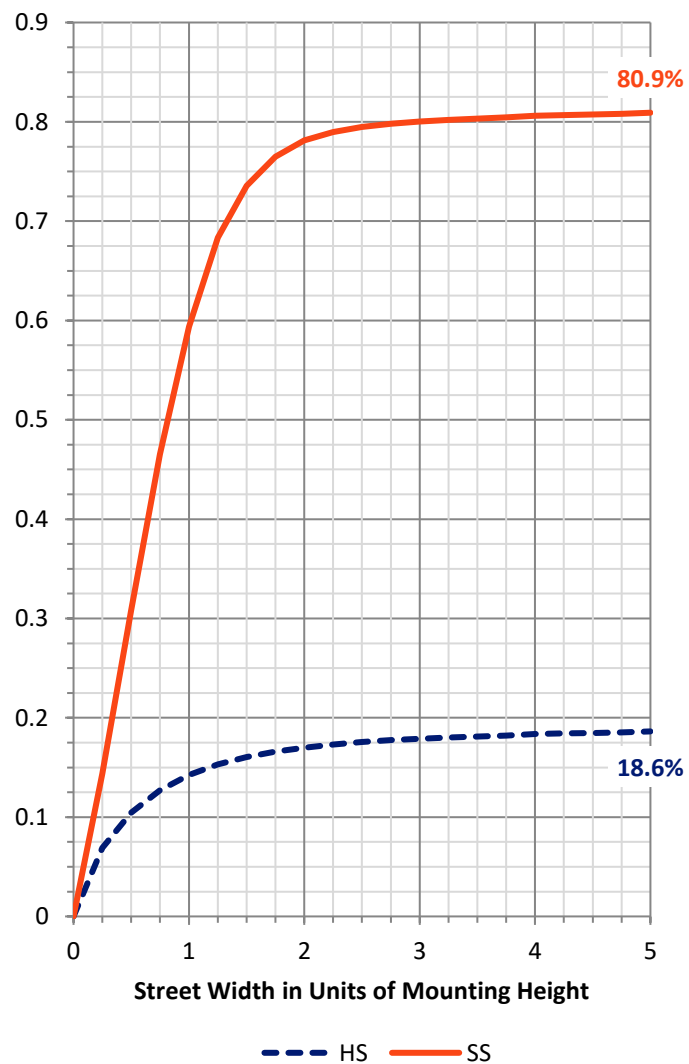
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4115.9   | 0.0    | 4115.9  |
|                    | % Fixture | 18.9     | 0.0    | 18.9    |
| <b>Street Side</b> | Lumens    | 17642.8  | 0.0    | 17642.8 |
|                    | % Fixture | 81.1     | 0.0    | 81.1    |
| <b>Total</b>       | Lumens    | 21758.7  | 0.0    | 21758.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 273.6   | 1.3       |
| 10°-20°   | 983.1   | 4.5       |
| 20°-30°   | 1856.2  | 8.5       |
| 30°-40°   | 2990.3  | 13.7      |
| 40°-50°   | 4090.1  | 18.8      |
| 50°-60°   | 4613.7  | 21.2      |
| 60°-70°   | 4306.3  | 19.8      |
| 70°-80°   | 2360.6  | 10.8      |
| 80°-90°   | 284.7   | 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°    | 21758.7 | 100.0     |
| 0°-180°   | 21758.7 | 100.0     |

**Coefficient of Utilization**



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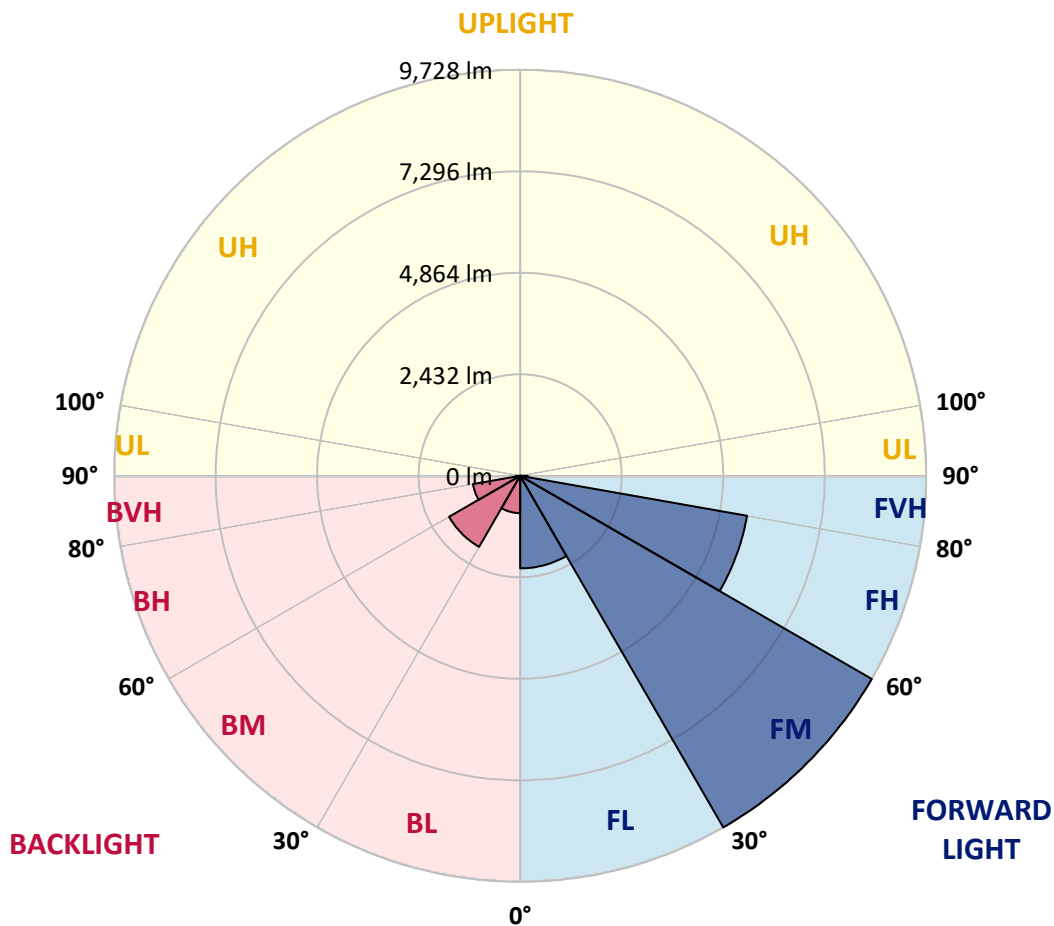
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2218.0 | 10.2      |                         |      |         |
| FM   | (30°-60°)   | 9728.1 | 44.7      |                         |      |         |
| FH   | (60°-80°)   | 5518.6 | 25.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 178.1  | 0.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 894.9  | 4.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1966.1 | 9.0       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1148.3 | 5.3       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 106.7  | 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-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 75°     | 77°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 2553.0 | 2553.0 | 2553.0 | 2553.0 | 2553.0 | 2553.0 | 2553.0  | 2553.0  | 2553.0  | 2553.0  | 2553.0  |
| 2.5°  | 3196.6 | 3219.0 | 3190.9 | 3190.9 | 3096.6 | 3047.1 | 2952.8  | 2881.0  | 2751.8  | 2729.3  | 2644.0  |
| 5°    | 3778.4 | 3806.4 | 3767.1 | 3750.3 | 3639.1 | 3536.9 | 3378.5  | 3222.4  | 2992.2  | 2968.5  | 2767.5  |
| 7.5°  | 4228.7 | 4264.7 | 4229.9 | 4211.9 | 4113.0 | 3998.5 | 3813.2  | 3595.3  | 3270.7  | 3224.6  | 2933.8  |
| 10°   | 4596.0 | 4601.6 | 4590.4 | 4597.1 | 4519.6 | 4425.3 | 4235.5  | 3981.6  | 3576.2  | 3513.3  | 3134.8  |
| 12.5° | 4803.8 | 4829.6 | 4852.1 | 4892.5 | 4879.1 | 4820.7 | 4649.9  | 4346.7  | 3899.6  | 3818.7  | 3353.8  |
| 15°   | 4901.5 | 4946.4 | 4997.0 | 5090.3 | 5165.5 | 5180.0 | 5049.8  | 4738.7  | 4228.7  | 4131.1  | 3575.1  |
| 17.5° | 4936.3 | 4979.0 | 5058.8 | 5193.6 | 5355.3 | 5464.3 | 5405.8  | 5119.5  | 4554.5  | 4442.1  | 3807.6  |
| 20°   | 5112.7 | 5125.0 | 5173.4 | 5301.4 | 5476.6 | 5657.4 | 5701.3  | 5485.6  | 4876.8  | 4749.8  | 4047.9  |
| 22.5° | 5490.1 | 5465.4 | 5478.8 | 5537.3 | 5663.0 | 5838.3 | 5938.2  | 5809.1  | 5208.1  | 5062.2  | 4290.5  |
| 25°   | 6113.4 | 6041.6 | 5969.7 | 5902.3 | 5966.3 | 6065.1 | 6178.6  | 6132.5  | 5555.2  | 5369.9  | 4535.4  |
| 27.5° | 6900.8 | 6813.2 | 6654.8 | 6433.5 | 6356.0 | 6390.9 | 6441.4  | 6432.4  | 5876.4  | 5688.9  | 4788.1  |
| 30°   | 7675.7 | 7573.5 | 7384.8 | 7064.7 | 6860.3 | 6768.3 | 6730.0  | 6704.2  | 6225.7  | 6025.9  | 5043.0  |
| 32.5° | 8294.6 | 8213.7 | 8028.4 | 7670.2 | 7373.6 | 7216.4 | 7089.5  | 6997.4  | 6590.7  | 6390.9  | 5312.6  |
| 35°   | 8836.0 | 8760.8 | 8548.5 | 8157.6 | 7835.2 | 7667.9 | 7501.7  | 7305.1  | 6970.4  | 6768.3  | 5602.3  |
| 37.5° | 9330.2 | 9254.9 | 8964.0 | 8557.4 | 8232.9 | 8117.2 | 7968.9  | 7635.3  | 7351.2  | 7160.2  | 5909.0  |
| 40°   | 9642.5 | 9625.6 | 9353.7 | 8893.3 | 8556.3 | 8499.1 | 8449.6  | 8018.4  | 7773.5  | 7596.0  | 6245.9  |
| 42.5° | 9722.2 | 9759.2 | 9543.6 | 9165.1 | 8843.9 | 8797.8 | 8913.5  | 8451.8  | 8247.5  | 8077.8  | 6627.9  |
| 45°   | 9530.1 | 9636.8 | 9495.3 | 9238.1 | 9048.3 | 9023.6 | 9324.6  | 8925.8  | 8771.9  | 8617.0  | 7088.4  |
| 47.5° | 9043.8 | 9224.6 | 9166.2 | 9130.3 | 9103.3 | 9210.0 | 9686.2  | 9429.1  | 9366.1  | 9231.4  | 7614.0  |
| 50°   | 8062.1 | 8404.7 | 8506.9 | 8733.8 | 8994.4 | 9354.9 | 10015.4 | 9978.3  | 10060.3 | 9924.4  | 8254.2  |
| 52.5° | 6365.0 | 6836.7 | 7429.8 | 7998.1 | 8659.7 | 9306.6 | 10377.0 | 10766.7 | 11112.6 | 11038.5 | 9271.7  |
| 55°   | 5254.3 | 5466.5 | 5922.4 | 6964.8 | 8010.5 | 9103.3 | 10539.9 | 11403.5 | 12157.2 | 12091.0 | 10043.4 |
| 57.5° | 4400.6 | 4590.4 | 4871.2 | 5741.6 | 7028.8 | 8641.7 | 10640.9 | 11792.2 | 12872.7 | 12865.9 | 10804.9 |
| 60°   | 3485.2 | 3686.2 | 3973.8 | 4590.4 | 5882.1 | 7844.2 | 10618.5 | 12234.7 | 13785.8 | 13842.0 | 11733.8 |
| 62.5° | 2451.9 | 2673.2 | 2992.2 | 3567.2 | 4710.6 | 6810.9 | 10160.2 | 12554.8 | 14860.7 | 15013.5 | 12851.3 |
| 65°   | 1611.7 | 1757.8 | 1998.1 | 2494.5 | 3509.9 | 5482.2 | 9285.3  | 12596.4 | 16010.8 | 16269.1 | 13900.4 |
| 67.5° | 1130.0 | 1186.0 | 1327.6 | 1597.2 | 2313.7 | 4204.0 | 7891.4  | 12166.2 | 16777.9 | 17068.8 | 14355.2 |
| 70°   | 881.7  | 909.8  | 981.6  | 1089.5 | 1453.3 | 2827.1 | 6047.2  | 11047.6 | 16614.0 | 16917.2 | 13880.1 |
| 72.5° | 761.5  | 788.4  | 815.4  | 828.9  | 974.9  | 1745.4 | 4096.2  | 9237.0  | 15069.7 | 15275.2 | 12068.5 |
| 75°   | 690.7  | 697.5  | 720.0  | 715.4  | 743.5  | 1132.1 | 2364.3  | 6730.0  | 11889.9 | 11819.2 | 8909.0  |
| 77.5° | 580.7  | 589.7  | 626.7  | 621.2  | 660.4  | 773.9  | 1227.6  | 4343.3  | 7708.3  | 7227.6  | 4958.8  |
| 80°   | 492.0  | 496.4  | 536.9  | 530.1  | 573.9  | 560.5  | 626.7   | 2213.8  | 3269.5  | 2769.8  | 1429.8  |
| 82.5° | 170.8  | 211.2  | 410.0  | 422.3  | 438.1  | 339.2  | 361.6   | 903.0   | 998.5   | 764.9   | 299.9   |
| 85°   | 83.1   | 88.8   | 208.9  | 296.5  | 295.4  | 170.8  | 176.3   | 322.4   | 314.5   | 247.1   | 99.9    |
| 87.5° | 13.4   | 16.8   | 24.7   | 115.7  | 92.1   | 44.9   | 60.7    | 62.9    | 65.2    | 56.2    | 22.4    |
| 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°    | 2553.0 | 2553.0 | 2553.0 | 2553.0 | 2553.0 | 2553.0 | 2553.0 | 2553.0 | 2553.0 | 2553.0 | 2553.0 |
| 2.5°  | 2581.1 | 2524.9 | 2407.0 | 2298.0 | 2212.7 | 2130.7 | 2084.6 | 2045.3 | 2022.8 | 2018.3 | 2018.3 |
| 5°    | 2650.6 | 2535.0 | 2320.5 | 2139.7 | 2021.7 | 1934.1 | 1888.0 | 1858.8 | 1844.3 | 1835.3 | 1834.1 |
| 7.5°  | 2750.7 | 2581.1 | 2275.5 | 2070.0 | 1946.5 | 1883.5 | 1860.0 | 1855.5 | 1854.3 | 1855.5 | 1858.8 |
| 10°   | 2888.8 | 2656.3 | 2271.1 | 2053.2 | 1949.9 | 1915.0 | 1913.9 | 1915.0 | 1919.5 | 1920.6 | 1921.8 |
| 12.5° | 3038.2 | 2733.8 | 2289.0 | 2067.7 | 1992.5 | 1973.4 | 1970.0 | 1968.9 | 1972.3 | 1974.6 | 1975.7 |
| 15°   | 3201.1 | 2836.0 | 2319.4 | 2099.2 | 2039.6 | 2019.5 | 2016.1 | 2009.3 | 2008.3 | 2007.2 | 2006.0 |
| 17.5° | 3368.4 | 2937.1 | 2353.1 | 2132.9 | 2070.0 | 2041.9 | 2029.6 | 2013.8 | 2001.5 | 1998.1 | 2001.5 |
| 20°   | 3538.0 | 3037.1 | 2376.7 | 2149.7 | 2072.2 | 2033.0 | 2008.3 | 1981.3 | 1959.9 | 1947.6 | 1952.1 |
| 22.5° | 3718.8 | 3141.5 | 2391.2 | 2145.2 | 2052.0 | 1998.1 | 1953.2 | 1921.8 | 1889.2 | 1867.9 | 1869.0 |
| 25°   | 3895.2 | 3232.4 | 2390.1 | 2121.6 | 2012.7 | 1944.2 | 1886.9 | 1846.5 | 1801.5 | 1779.1 | 1779.1 |
| 27.5° | 4064.7 | 3314.4 | 2362.0 | 2080.1 | 1956.5 | 1880.2 | 1811.7 | 1763.4 | 1719.5 | 1698.2 | 1697.1 |
| 30°   | 4240.0 | 3383.0 | 2318.2 | 2019.5 | 1890.3 | 1806.0 | 1730.8 | 1689.3 | 1649.9 | 1629.7 | 1628.6 |
| 32.5° | 4414.1 | 3445.8 | 2256.4 | 1944.2 | 1813.9 | 1733.1 | 1659.0 | 1620.7 | 1597.2 | 1597.2 | 1598.3 |
| 35°   | 4598.3 | 3489.7 | 2174.4 | 1856.6 | 1733.1 | 1655.6 | 1597.2 | 1574.7 | 1572.5 | 1558.9 | 1555.6 |
| 37.5° | 4792.6 | 3517.8 | 2074.5 | 1766.8 | 1653.3 | 1580.3 | 1562.3 | 1535.3 | 1512.9 | 1483.7 | 1479.2 |
| 40°   | 4997.0 | 3545.9 | 1954.4 | 1673.5 | 1569.1 | 1528.7 | 1520.8 | 1484.8 | 1420.9 | 1348.9 | 1338.9 |
| 42.5° | 5245.2 | 3565.0 | 1829.6 | 1580.3 | 1480.3 | 1466.9 | 1478.0 | 1416.3 | 1314.2 | 1260.2 | 1261.4 |
| 45°   | 5532.7 | 3596.4 | 1715.1 | 1488.2 | 1389.4 | 1389.4 | 1436.5 | 1355.7 | 1271.4 | 1237.7 | 1243.3 |
| 47.5° | 5905.6 | 3669.4 | 1608.4 | 1387.1 | 1305.1 | 1327.6 | 1344.4 | 1282.7 | 1235.5 | 1193.9 | 1192.8 |
| 50°   | 6444.8 | 3844.6 | 1498.3 | 1284.9 | 1241.1 | 1286.1 | 1262.5 | 1226.5 | 1171.5 | 1137.8 | 1134.4 |
| 52.5° | 7114.2 | 3948.0 | 1400.6 | 1192.8 | 1186.0 | 1231.0 | 1197.3 | 1163.6 | 1122.1 | 1077.2 | 1068.2 |
| 55°   | 7570.1 | 3967.1 | 1318.6 | 1125.4 | 1149.0 | 1144.5 | 1132.1 | 1101.9 | 1079.3 | 1019.9 | 1021.0 |
| 57.5° | 8080.1 | 4005.2 | 1251.2 | 1085.0 | 1125.4 | 1076.0 | 1071.5 | 1045.7 | 1016.5 | 976.0  | 962.6  |
| 60°   | 8689.9 | 4064.7 | 1192.8 | 1069.3 | 1105.2 | 1031.0 | 1008.6 | 998.5  | 969.3  | 949.0  | 954.7  |
| 62.5° | 9354.9 | 4118.7 | 1133.2 | 1071.5 | 1081.6 | 987.3  | 953.6  | 950.2  | 932.2  | 925.5  | 925.5  |
| 65°   | 9808.6 | 3971.6 | 1059.1 | 1069.3 | 1044.6 | 942.4  | 899.6  | 898.5  | 884.0  | 881.7  | 880.6  |
| 67.5° | 9650.3 | 3505.4 | 959.2  | 1037.8 | 1006.3 | 897.4  | 850.2  | 845.7  | 826.7  | 827.8  | 827.8  |
| 70°   | 8857.3 | 2840.5 | 821.0  | 960.3  | 959.2  | 857.0  | 798.6  | 784.0  | 758.2  | 762.6  | 767.1  |
| 72.5° | 7370.3 | 2104.8 | 635.7  | 831.2  | 884.0  | 819.9  | 739.0  | 715.4  | 682.9  | 687.4  | 686.2  |
| 75°   | 5322.7 | 1430.9 | 462.8  | 632.3  | 769.4  | 776.1  | 680.6  | 640.2  | 600.9  | 607.6  | 609.9  |
| 77.5° | 2723.7 | 811.0  | 340.3  | 435.8  | 604.2  | 705.3  | 627.8  | 573.9  | 565.0  | 627.8  | 618.9  |
| 80°   | 888.5  | 406.6  | 235.9  | 305.6  | 396.5  | 577.3  | 550.3  | 488.6  | 486.4  | 500.9  | 430.2  |
| 82.5° | 265.1  | 171.9  | 151.6  | 201.0  | 219.0  | 442.5  | 475.1  | 369.5  | 317.9  | 334.7  | 345.9  |
| 85°   | 91.0   | 83.1   | 86.5   | 99.9   | 104.4  | 259.4  | 332.5  | 244.9  | 231.3  | 254.9  | 251.6  |
| 87.5° | 21.3   | 29.2   | 24.7   | 22.4   | 22.4   | 62.9   | 129.1  | 102.2  | 141.6  | 94.3   | 91.0   |
| 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)