

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: P966050

Luminaire Tested: **NVN-SB4B-722-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P966050  
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-722-U-SLL-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14583.7 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

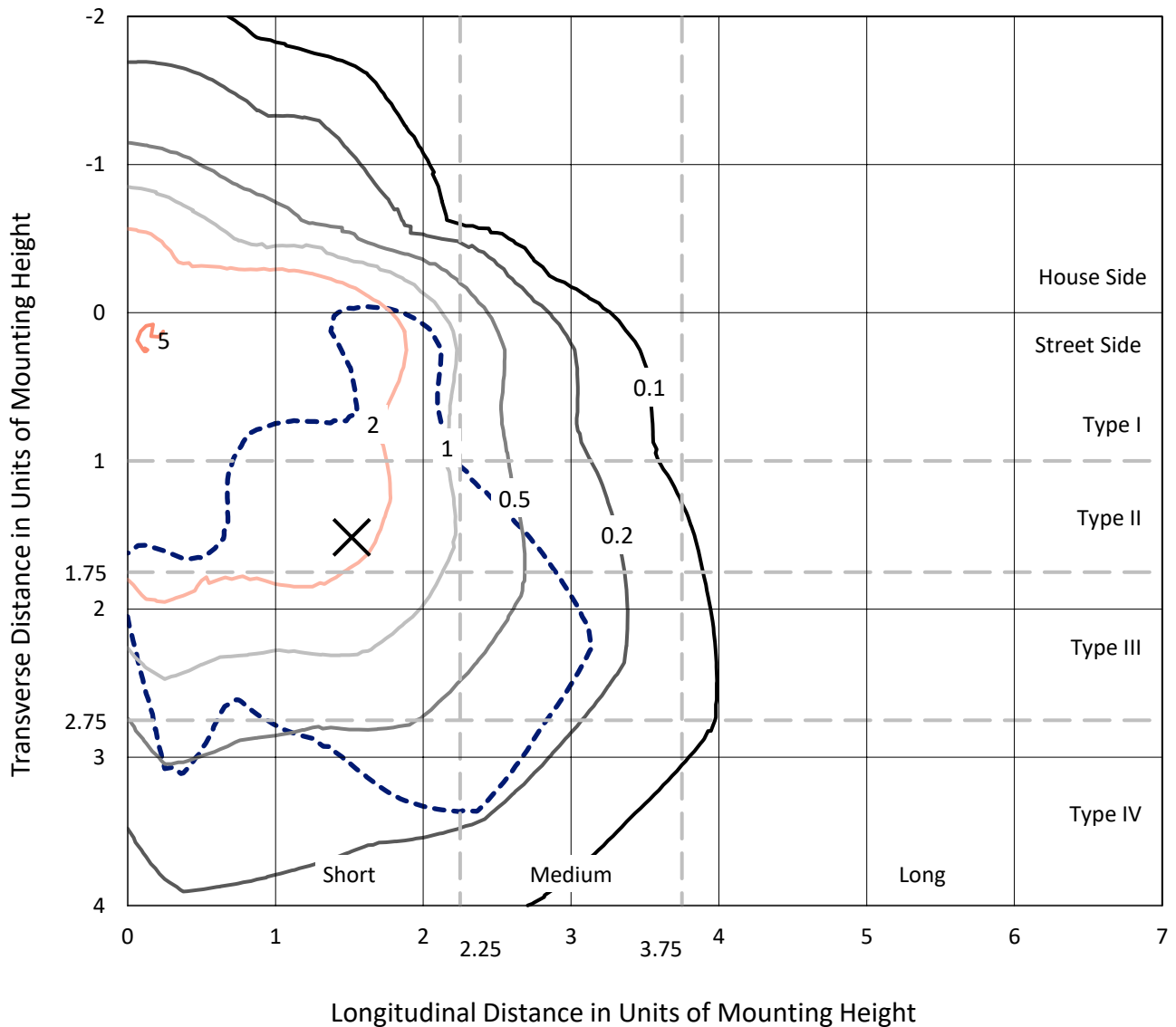
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

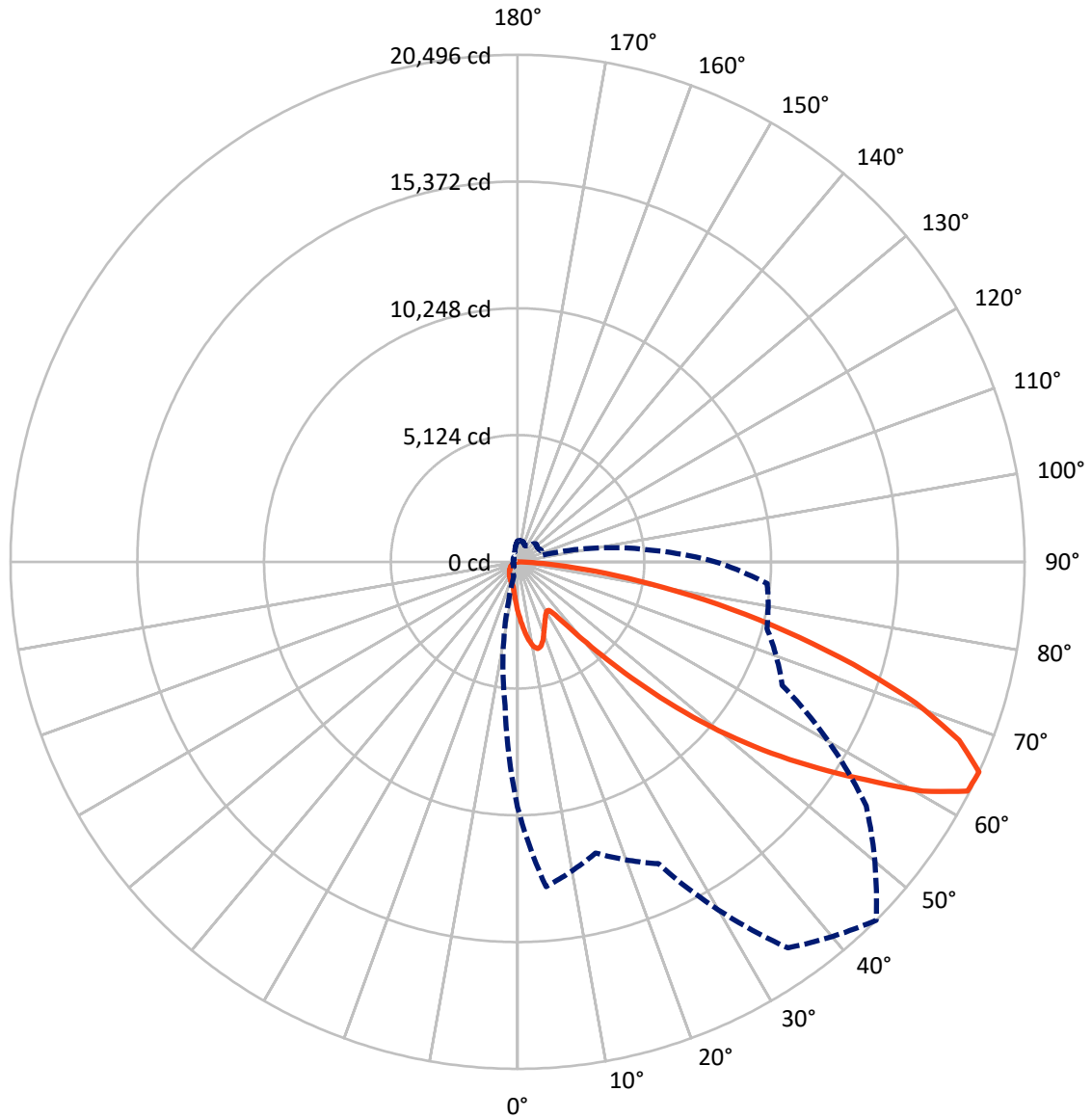
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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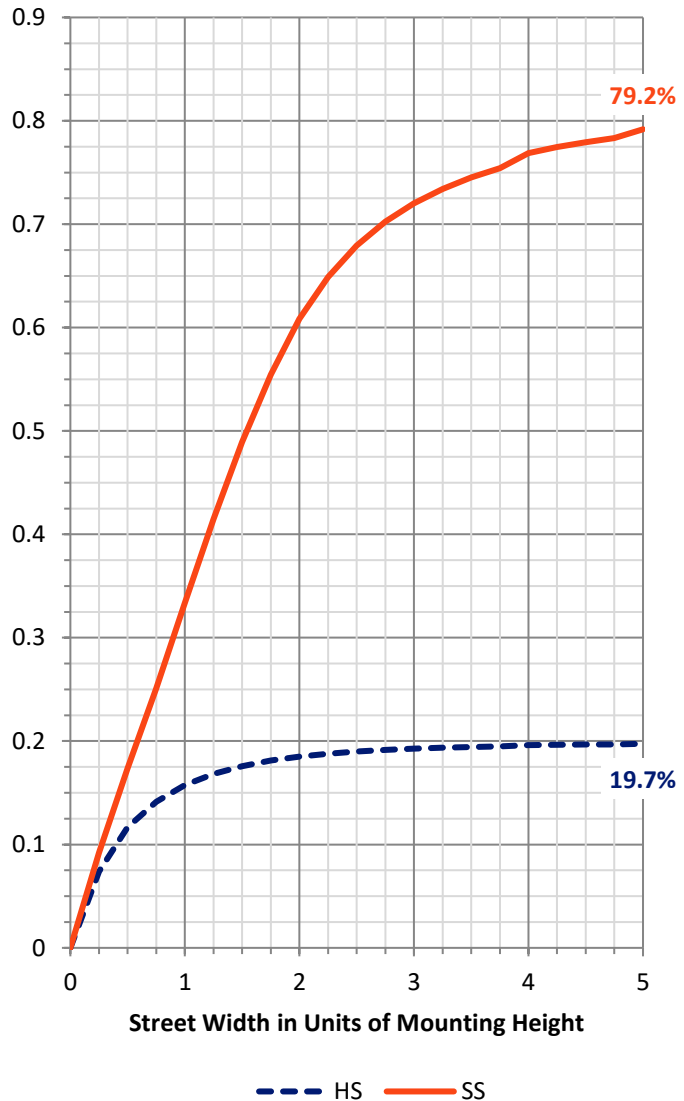
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2898.8   | 0.0    | 2898.8  |
|                    | % Fixture | 19.9     | 0.0    | 19.9    |
| <b>Street Side</b> | Lumens    | 11684.9  | 0.0    | 11684.9 |
|                    | % Fixture | 80.1     | 0.0    | 80.1    |
| <b>Total</b>       | Lumens    | 14583.7  | 0.0    | 14583.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 198.8   | 1.4       |
| 10°-20°   | 596.0   | 4.1       |
| 20°-30°   | 878.0   | 6.0       |
| 30°-40°   | 1128.0  | 7.7       |
| 40°-50°   | 1824.3  | 12.5      |
| 50°-60°   | 3199.1  | 21.9      |
| 60°-70°   | 4003.0  | 27.4      |
| 70°-80°   | 2339.2  | 16.0      |
| 80°-90°   | 417.3   | 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°    | 14583.7 | 100.0     |
| 0°-180°   | 14583.7 | 100.0     |

**Coefficient of Utilization**



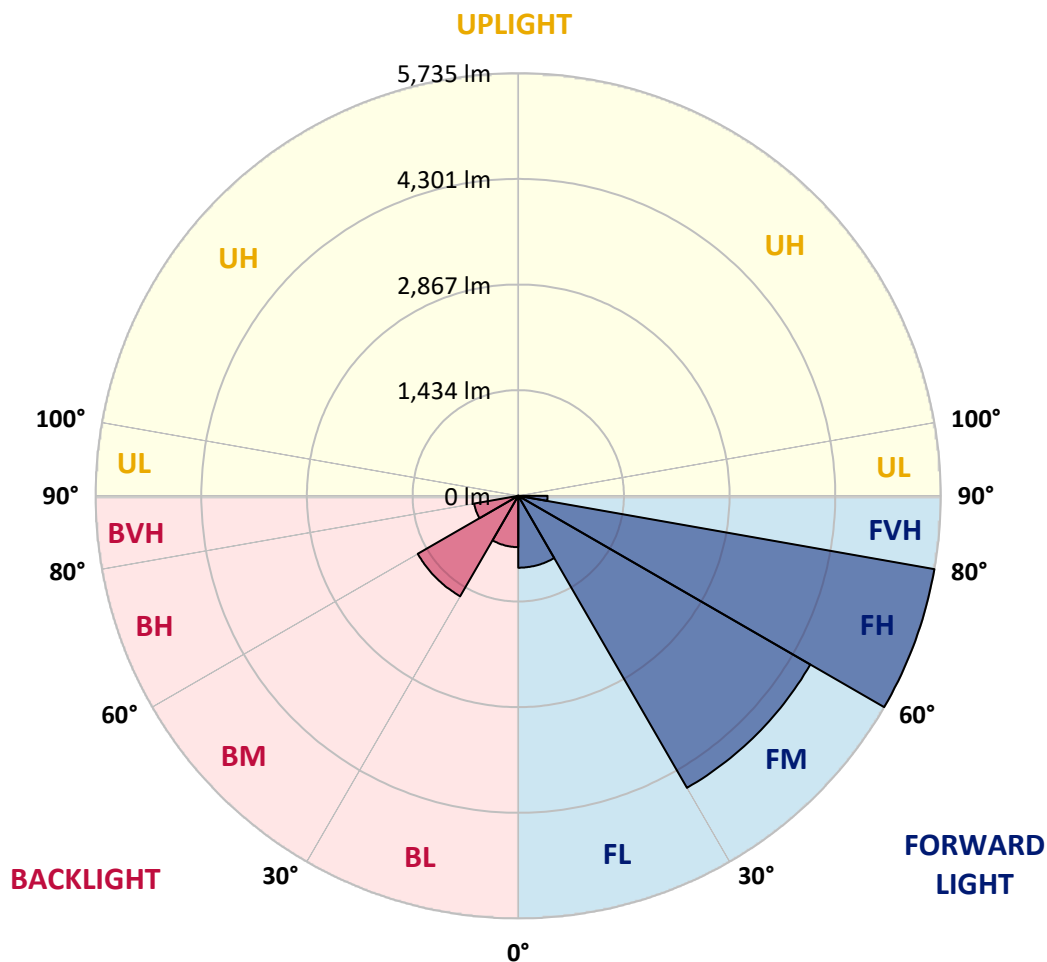
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 975.8  | 6.7       |                         |      |         |
| FM (30°-60°)   | 4576.5 | 31.4      |                         |      |         |
| FH (60°-80°)   | 5734.8 | 39.3      |                         |      | G3/7500 |
| FVH (80°-90°)  | 397.8  | 2.7       |                         |      | G3/500  |
| BL (0°-30°)    | 697.0  | 4.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 1574.9 | 10.8      | B2/2500                 |      |         |
| BH (60°-80°)   | 607.4  | 4.2       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 19.6   | 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°    | 2019.4  | 2019.4  | 2019.4  | 2019.4  | 2019.4  | 2019.4  | 2019.4  | 2019.4  | 2019.4  | 2019.4  | 2019.4  |
| 2.5°  | 2262.5  | 2279.6  | 2317.7  | 2337.8  | 2369.0  | 2371.0  | 2371.0  | 2343.9  | 2342.8  | 2287.6  | 2281.5  |
| 5°    | 2528.8  | 2569.0  | 2659.4  | 2752.7  | 2772.8  | 2777.9  | 2767.8  | 2713.6  | 2673.4  | 2565.9  | 2542.8  |
| 7.5°  | 2792.9  | 2870.3  | 3008.0  | 3132.5  | 3172.7  | 3172.7  | 3148.6  | 3060.2  | 2977.8  | 2822.1  | 2763.8  |
| 10°   | 3012.0  | 3109.4  | 3296.3  | 3435.9  | 3482.1  | 3472.1  | 3422.9  | 3311.4  | 3197.9  | 3009.0  | 2932.6  |
| 12.5° | 3156.7  | 3266.2  | 3471.2  | 3583.6  | 3630.9  | 3604.7  | 3548.4  | 3440.0  | 3320.4  | 3121.5  | 3035.1  |
| 15°   | 3229.0  | 3343.6  | 3521.4  | 3580.6  | 3567.6  | 3540.5  | 3533.4  | 3481.2  | 3390.7  | 3204.9  | 3110.5  |
| 17.5° | 3260.1  | 3366.6  | 3490.2  | 3453.0  | 3342.5  | 3321.4  | 3391.7  | 3458.0  | 3435.9  | 3277.2  | 3188.8  |
| 20°   | 3289.2  | 3378.7  | 3415.8  | 3251.1  | 3058.2  | 3039.1  | 3173.7  | 3362.6  | 3459.1  | 3344.6  | 3263.2  |
| 22.5° | 3329.5  | 3384.8  | 3308.4  | 3038.1  | 2830.1  | 2786.0  | 2934.6  | 3218.9  | 3466.1  | 3430.0  | 3348.6  |
| 25°   | 3384.8  | 3399.8  | 3189.8  | 2836.2  | 2627.2  | 2583.0  | 2721.7  | 3059.2  | 3454.0  | 3522.3  | 3453.0  |
| 27.5° | 3451.1  | 3419.9  | 3076.3  | 2667.4  | 2465.4  | 2424.2  | 2562.9  | 2905.5  | 3419.9  | 3614.8  | 3565.6  |
| 30°   | 3537.4  | 3446.0  | 2963.8  | 2536.8  | 2349.9  | 2319.8  | 2453.4  | 2772.8  | 3377.7  | 3732.3  | 3705.2  |
| 32.5° | 3624.8  | 3457.0  | 2859.2  | 2460.4  | 2323.8  | 2334.8  | 2444.3  | 2701.6  | 3331.5  | 3844.9  | 3857.9  |
| 35°   | 3719.3  | 3492.2  | 2808.0  | 2535.7  | 2541.8  | 2638.2  | 2683.4  | 2767.8  | 3324.5  | 3997.6  | 4048.7  |
| 37.5° | 3847.8  | 3570.6  | 2869.3  | 2910.5  | 3119.5  | 3319.5  | 3282.3  | 3092.3  | 3405.8  | 4225.7  | 4321.1  |
| 40°   | 4032.8  | 3708.2  | 3136.6  | 3548.4  | 3977.5  | 4301.9  | 4160.3  | 3682.1  | 3654.9  | 4554.2  | 4696.9  |
| 42.5° | 4301.9  | 3927.2  | 3610.8  | 4328.1  | 5055.5  | 5589.9  | 5210.2  | 4442.7  | 4091.0  | 5023.3  | 5205.2  |
| 45°   | 4699.8  | 4281.8  | 4184.5  | 5150.9  | 6384.6  | 7226.6  | 6436.9  | 5253.4  | 4701.9  | 5733.6  | 5876.3  |
| 47.5° | 5251.4  | 4803.3  | 4722.0  | 6018.0  | 8000.1  | 9089.2  | 7797.2  | 6004.9  | 5397.0  | 6702.2  | 6735.3  |
| 50°   | 5983.7  | 5505.6  | 5231.3  | 6966.3  | 9771.3  | 10988.0 | 9156.5  | 6730.3  | 6193.8  | 7885.6  | 7847.4  |
| 52.5° | 6950.3  | 6485.1  | 5825.1  | 7869.5  | 11592.9 | 12846.6 | 10521.8 | 7367.2  | 7182.4  | 9259.0  | 9180.6  |
| 55°   | 8268.4  | 7958.9  | 6636.8  | 8731.6  | 13413.3 | 14716.3 | 11833.9 | 7968.0  | 8488.4  | 10890.5 | 10416.4 |
| 57.5° | 9904.0  | 10125.1 | 7807.2  | 9731.1  | 15049.9 | 16643.2 | 13152.1 | 8807.9  | 10184.3 | 12715.0 | 11133.7 |
| 60°   | 10958.9 | 13005.4 | 10048.7 | 11209.1 | 16909.5 | 18822.4 | 14958.4 | 10405.3 | 11966.6 | 13369.1 | 10997.0 |
| 62.5° | 10703.7 | 13921.7 | 12733.2 | 13095.8 | 18619.4 | 20406.7 | 16728.7 | 12009.7 | 12302.2 | 12405.6 | 9944.1  |
| 65°   | 9921.1  | 13182.2 | 12185.6 | 13462.6 | 19052.5 | 20496.2 | 17201.9 | 11802.8 | 10435.4 | 10128.0 | 7993.2  |
| 67.5° | 8844.1  | 12305.1 | 10884.6 | 12490.0 | 18269.8 | 19246.3 | 16320.8 | 10440.4 | 8064.4  | 7600.3  | 5798.9  |
| 70°   | 7681.7  | 11334.7 | 10030.5 | 11398.9 | 16777.9 | 17068.2 | 14822.8 | 9182.7  | 5931.6  | 5132.8  | 3721.3  |
| 72.5° | 6578.6  | 10323.9 | 9445.9  | 10280.8 | 14787.7 | 14186.8 | 12872.8 | 8070.4  | 4319.0  | 3702.2  | 2645.3  |
| 75°   | 5450.3  | 8833.0  | 8613.0  | 8952.6  | 12170.5 | 11174.9 | 10695.7 | 6682.0  | 3389.8  | 2678.4  | 1825.5  |
| 77.5° | 4205.6  | 6902.0  | 7408.4  | 7169.3  | 8566.7  | 8300.6  | 8290.5  | 5021.3  | 2476.5  | 1787.3  | 1144.3  |
| 80°   | 2878.4  | 4810.3  | 5787.9  | 5057.5  | 5559.8  | 5424.2  | 6244.0  | 3368.7  | 1796.3  | 1076.0  | 636.9   |
| 82.5° | 1691.9  | 2928.6  | 4028.7  | 2448.4  | 3074.3  | 3155.7  | 3718.3  | 1638.6  | 1056.9  | 248.2   | 138.7   |
| 85°   | 686.1   | 1156.4  | 1575.3  | 958.5   | 1482.9  | 1250.8  | 1411.5  | 460.1   | 294.4   | 6.0     | 0.0     |
| 87.5° | 172.8   | 369.7   | 259.2   | 107.5   | 171.8   | 157.7   | 124.5   | 56.3    | 12.1    | 0.0     | 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°    | 2019.4 | 2019.4 | 2019.4 | 2019.4 | 2019.4 | 2019.4 | 2019.4 | 2019.4 | 2019.4 | 2019.4 | 2019.4 |
| 2.5°  | 2242.4 | 2219.3 | 2162.0 | 2104.7 | 2058.5 | 1996.3 | 1955.1 | 1905.9 | 1858.6 | 1816.4 | 1808.4 |
| 5°    | 2479.5 | 2403.1 | 2298.7 | 2203.2 | 2105.8 | 2011.4 | 1917.9 | 1819.5 | 1729.1 | 1673.7 | 1638.6 |
| 7.5°  | 2672.4 | 2537.8 | 2399.1 | 2277.5 | 2160.0 | 2049.5 | 1926.0 | 1806.4 | 1664.7 | 1589.4 | 1521.1 |
| 10°   | 2816.1 | 2639.3 | 2457.4 | 2317.7 | 2199.2 | 2091.7 | 1987.3 | 1866.6 | 1695.9 | 1601.5 | 1499.0 |
| 12.5° | 2910.5 | 2700.6 | 2487.6 | 2327.8 | 2195.2 | 2111.8 | 2065.6 | 2018.3 | 1848.6 | 1738.1 | 1589.4 |
| 15°   | 2975.8 | 2743.7 | 2508.7 | 2304.7 | 2141.9 | 2080.6 | 2126.9 | 2181.1 | 2072.7 | 1945.0 | 1751.1 |
| 17.5° | 3047.1 | 2800.0 | 2517.7 | 2242.4 | 2038.4 | 2012.4 | 2131.9 | 2257.5 | 2252.4 | 2125.8 | 1936.0 |
| 20°   | 3122.5 | 2849.2 | 2511.7 | 2141.9 | 1912.9 | 1936.0 | 2088.7 | 2234.4 | 2295.7 | 2227.3 | 2058.5 |
| 22.5° | 3199.8 | 2896.4 | 2488.6 | 2011.4 | 1795.3 | 1867.7 | 2020.4 | 2148.0 | 2220.4 | 2199.2 | 2070.6 |
| 25°   | 3297.3 | 2962.8 | 2454.4 | 1870.7 | 1697.9 | 1798.4 | 1941.0 | 2044.5 | 2094.7 | 2093.8 | 2005.3 |
| 27.5° | 3413.9 | 3051.1 | 2436.3 | 1757.2 | 1628.5 | 1720.0 | 1846.5 | 1939.0 | 1974.2 | 1974.2 | 1903.8 |
| 30°   | 3549.5 | 3155.7 | 2416.2 | 1682.8 | 1588.3 | 1638.6 | 1737.1 | 1827.5 | 1862.6 | 1862.6 | 1803.4 |
| 32.5° | 3700.1 | 3256.1 | 2368.0 | 1637.6 | 1558.2 | 1559.2 | 1621.6 | 1704.0 | 1746.1 | 1752.1 | 1709.9 |
| 35°   | 3881.1 | 3363.6 | 2262.5 | 1601.5 | 1523.0 | 1481.8 | 1512.0 | 1580.3 | 1630.6 | 1643.6 | 1617.6 |
| 37.5° | 4118.1 | 3495.2 | 2111.8 | 1548.2 | 1468.8 | 1400.5 | 1407.5 | 1459.8 | 1515.1 | 1535.1 | 1518.0 |
| 40°   | 4436.6 | 3649.9 | 1955.1 | 1471.8 | 1392.5 | 1311.1 | 1308.1 | 1346.2 | 1400.5 | 1422.6 | 1413.6 |
| 42.5° | 4857.6 | 3835.9 | 1805.3 | 1398.5 | 1300.0 | 1216.7 | 1211.7 | 1241.8 | 1288.9 | 1312.1 | 1308.1 |
| 45°   | 5396.0 | 4063.8 | 1676.8 | 1341.2 | 1209.6 | 1127.2 | 1125.2 | 1150.4 | 1191.6 | 1215.6 | 1210.6 |
| 47.5° | 6144.6 | 4291.9 | 1589.4 | 1311.1 | 1138.3 | 1053.9 | 1057.9 | 1080.0 | 1117.1 | 1134.3 | 1127.2 |
| 50°   | 7120.1 | 4361.3 | 1545.2 | 1311.1 | 1100.1 | 988.6  | 1008.7 | 1026.7 | 1054.9 | 1065.0 | 1055.9 |
| 52.5° | 8056.4 | 4132.2 | 1505.0 | 1319.2 | 1105.2 | 933.4  | 976.5  | 989.6  | 1013.7 | 1017.7 | 1004.7 |
| 55°   | 8515.5 | 3552.4 | 1449.8 | 1321.1 | 1136.3 | 886.1  | 950.4  | 974.6  | 983.6  | 982.6  | 960.4  |
| 57.5° | 8357.8 | 2872.4 | 1356.3 | 1313.1 | 1157.3 | 856.0  | 918.3  | 964.5  | 970.5  | 961.4  | 920.2  |
| 60°   | 7804.2 | 2114.8 | 1284.9 | 1253.8 | 1149.3 | 847.0  | 869.0  | 942.4  | 951.4  | 939.4  | 872.1  |
| 62.5° | 6875.9 | 1467.8 | 1229.7 | 1123.2 | 1114.2 | 843.9  | 791.7  | 894.1  | 916.2  | 899.1  | 800.7  |
| 65°   | 5413.1 | 1036.8 | 1058.9 | 984.6  | 1037.8 | 827.9  | 711.3  | 835.9  | 866.0  | 839.9  | 701.3  |
| 67.5° | 3663.0 | 748.5  | 858.0  | 892.2  | 914.2  | 791.7  | 653.0  | 769.6  | 809.7  | 775.6  | 585.7  |
| 70°   | 1978.1 | 525.4  | 566.6  | 751.5  | 776.6  | 729.4  | 600.8  | 702.2  | 748.5  | 711.3  | 477.2  |
| 72.5° | 1168.4 | 377.7  | 396.9  | 603.8  | 647.0  | 642.0  | 542.5  | 623.9  | 680.2  | 635.9  | 387.8  |
| 75°   | 644.0  | 255.2  | 283.3  | 438.1  | 525.4  | 495.3  | 466.2  | 528.5  | 585.7  | 542.5  | 299.4  |
| 77.5° | 288.3  | 152.7  | 196.9  | 287.3  | 412.9  | 339.6  | 360.7  | 411.9  | 465.1  | 419.9  | 200.0  |
| 80°   | 111.5  | 85.4   | 130.6  | 156.7  | 300.4  | 187.9  | 232.1  | 303.4  | 341.6  | 305.4  | 121.6  |
| 82.5° | 14.0   | 38.1   | 56.3   | 61.3   | 174.8  | 99.4   | 134.6  | 190.9  | 187.9  | 162.8  | 61.3   |
| 85°   | 0.0    | 7.1    | 8.0    | 4.0    | 75.3   | 36.2   | 44.2   | 62.3   | 58.2   | 44.2   | 5.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.0    | 0.0    | 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):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2019.4 | 2019.4 | 2019.4 | 2019.4 | 2019.4 | 2019.4 | 2019.4 | 2019.4 | 2019.4 | 2019.4 | 2019.4 |
| 2.5°  | 1759.2 | 1723.0 | 1704.9 | 1689.8 | 1704.0 | 1712.0 | 1712.0 | 1746.1 | 1766.2 | 1774.3 | 1830.5 |
| 5°    | 1550.2 | 1482.9 | 1437.7 | 1410.5 | 1419.6 | 1429.7 | 1440.7 | 1483.9 | 1513.0 | 1532.1 | 1619.5 |
| 7.5°  | 1385.4 | 1283.0 | 1219.6 | 1186.5 | 1191.6 | 1198.5 | 1207.7 | 1249.8 | 1278.9 | 1304.0 | 1401.5 |
| 10°   | 1304.0 | 1159.4 | 1076.0 | 1035.8 | 1028.8 | 1024.8 | 1021.7 | 1046.8 | 1069.0 | 1089.1 | 1185.5 |
| 12.5° | 1308.1 | 1106.2 | 1004.7 | 955.4  | 934.3  | 910.2  | 891.1  | 895.1  | 909.2  | 934.3  | 995.6  |
| 15°   | 1359.4 | 1089.1 | 967.5  | 906.2  | 871.0  | 843.0  | 819.8  | 814.8  | 819.8  | 823.8  | 862.0  |
| 17.5° | 1428.6 | 1087.0 | 935.3  | 859.0  | 822.9  | 799.7  | 778.6  | 771.6  | 772.5  | 777.6  | 787.6  |
| 20°   | 1483.9 | 1081.1 | 899.1  | 813.7  | 781.7  | 761.6  | 740.5  | 733.4  | 735.4  | 736.5  | 747.4  |
| 22.5° | 1513.0 | 1071.9 | 859.0  | 768.5  | 741.5  | 721.4  | 702.2  | 701.3  | 701.3  | 707.2  | 715.3  |
| 25°   | 1513.0 | 1052.9 | 822.9  | 725.4  | 701.3  | 683.2  | 660.1  | 664.1  | 666.0  | 674.1  | 686.1  |
| 27.5° | 1476.8 | 1016.7 | 793.7  | 688.2  | 663.1  | 645.0  | 623.9  | 628.9  | 631.9  | 640.9  | 656.0  |
| 30°   | 1430.6 | 973.5  | 760.6  | 653.0  | 623.9  | 610.8  | 592.8  | 594.8  | 598.8  | 608.8  | 625.9  |
| 32.5° | 1381.4 | 922.3  | 733.4  | 617.9  | 588.8  | 578.7  | 558.6  | 561.6  | 565.6  | 576.7  | 595.7  |
| 35°   | 1327.2 | 862.0  | 701.3  | 585.7  | 556.6  | 548.6  | 525.4  | 527.5  | 533.5  | 545.5  | 564.7  |
| 37.5° | 1269.9 | 812.7  | 669.1  | 554.5  | 524.4  | 516.4  | 492.3  | 494.3  | 501.3  | 515.4  | 533.5  |
| 40°   | 1213.6 | 764.5  | 635.0  | 521.4  | 491.3  | 484.2  | 458.2  | 460.1  | 468.2  | 483.3  | 502.4  |
| 42.5° | 1152.3 | 727.3  | 590.7  | 487.3  | 455.1  | 448.1  | 423.9  | 427.0  | 436.0  | 451.1  | 470.2  |
| 45°   | 1079.0 | 703.3  | 541.5  | 455.1  | 418.9  | 411.9  | 389.8  | 395.9  | 405.9  | 421.0  | 441.1  |
| 47.5° | 1003.7 | 693.2  | 500.3  | 421.0  | 381.8  | 375.8  | 357.6  | 367.7  | 378.7  | 390.8  | 412.9  |
| 50°   | 931.3  | 680.2  | 458.2  | 388.8  | 349.6  | 343.6  | 331.6  | 344.6  | 355.7  | 366.7  | 387.8  |
| 52.5° | 848.9  | 652.0  | 419.9  | 360.7  | 322.5  | 320.5  | 314.5  | 326.6  | 336.6  | 346.7  | 364.7  |
| 55°   | 763.5  | 606.8  | 386.8  | 335.6  | 299.4  | 301.3  | 298.4  | 308.4  | 316.5  | 325.5  | 341.6  |
| 57.5° | 689.2  | 549.5  | 360.7  | 308.4  | 279.3  | 285.4  | 281.3  | 286.3  | 291.3  | 302.4  | 315.5  |
| 60°   | 613.9  | 481.2  | 331.6  | 276.2  | 259.2  | 266.2  | 255.2  | 254.2  | 256.1  | 259.2  | 283.3  |
| 62.5° | 512.4  | 409.9  | 295.4  | 248.2  | 237.1  | 240.2  | 219.0  | 203.0  | 203.0  | 205.9  | 242.1  |
| 65°   | 411.9  | 343.6  | 255.2  | 216.0  | 206.9  | 205.0  | 174.8  | 152.7  | 150.7  | 159.7  | 190.9  |
| 67.5° | 338.6  | 285.4  | 215.0  | 179.8  | 173.8  | 175.8  | 153.8  | 131.6  | 129.6  | 139.6  | 162.8  |
| 70°   | 280.3  | 230.1  | 171.8  | 138.7  | 144.6  | 153.8  | 131.6  | 110.5  | 107.5  | 116.5  | 138.7  |
| 72.5° | 223.0  | 179.8  | 131.6  | 102.5  | 119.5  | 130.6  | 107.5  | 87.4   | 85.4   | 93.5   | 114.5  |
| 75°   | 163.8  | 128.6  | 89.4   | 74.3   | 92.5   | 102.5  | 78.4   | 62.3   | 59.2   | 66.3   | 87.4   |
| 77.5° | 101.5  | 72.4   | 56.3   | 44.2   | 63.3   | 68.4   | 41.2   | 36.2   | 35.2   | 40.2   | 55.2   |
| 80°   | 47.3   | 31.2   | 27.2   | 15.1   | 23.1   | 27.2   | 17.1   | 19.1   | 20.1   | 24.1   | 34.1   |
| 82.5° | 13.0   | 5.0    | 1.0    | 0.0    | 0.0    | 8.0    | 4.0    | 8.0    | 10.0   | 15.1   | 22.1   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.0    | 5.0    | 9.0    | 16.1   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 4.0    | 8.0    |
| 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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| 0°    | 2019.4 | 2019.4 | 2019.4 | 2019.4 | 2019.4 | 2019.4 | 2019.4 | 2019.4  |
| 2.5°  | 1872.7 | 1912.9 | 1977.2 | 2043.4 | 2108.8 | 2175.0 | 2239.4 | 2262.5  |
| 5°    | 1698.9 | 1791.3 | 1918.9 | 2055.5 | 2196.2 | 2338.8 | 2469.4 | 2528.8  |
| 7.5°  | 1505.0 | 1637.6 | 1829.5 | 2043.4 | 2267.5 | 2491.6 | 2697.5 | 2792.9  |
| 10°   | 1298.1 | 1465.9 | 1684.8 | 1974.2 | 2295.7 | 2605.1 | 2888.4 | 3012.0  |
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| 17.5° | 812.7  | 914.2  | 1184.5 | 1594.4 | 2108.8 | 2637.2 | 3089.4 | 3260.1  |
| 20°   | 751.5  | 779.6  | 965.4  | 1411.5 | 2021.4 | 2602.1 | 3109.4 | 3289.2  |
| 22.5° | 715.3  | 722.3  | 789.7  | 1175.5 | 1916.9 | 2591.0 | 3144.6 | 3329.5  |
| 25°   | 686.1  | 688.2  | 706.3  | 931.3  | 1757.2 | 2584.0 | 3198.8 | 3384.8  |
| 27.5° | 657.0  | 657.0  | 667.1  | 750.5  | 1540.2 | 2553.9 | 3269.1 | 3451.1  |
| 30°   | 627.9  | 627.9  | 635.0  | 664.1  | 1286.0 | 2494.5 | 3353.6 | 3537.4  |
| 32.5° | 597.8  | 597.8  | 603.8  | 624.9  | 1026.7 | 2420.2 | 3430.9 | 3624.8  |
| 35°   | 567.6  | 565.6  | 573.7  | 595.7  | 816.8  | 2325.8 | 3508.3 | 3719.3  |
| 37.5° | 535.5  | 534.4  | 542.5  | 567.6  | 705.3  | 2216.3 | 3566.6 | 3847.8  |
| 40°   | 501.3  | 501.3  | 510.3  | 537.5  | 673.1  | 2078.7 | 3658.9 | 4032.8  |
| 42.5° | 470.2  | 468.2  | 478.3  | 511.4  | 649.0  | 1947.1 | 3824.8 | 4301.9  |
| 45°   | 440.0  | 436.0  | 445.1  | 486.3  | 606.8  | 1900.9 | 4134.2 | 4699.8  |
| 47.5° | 411.9  | 401.9  | 409.9  | 456.1  | 568.7  | 2073.7 | 4640.6 | 5251.4  |
| 50°   | 388.8  | 369.7  | 376.8  | 426.0  | 539.5  | 2448.4 | 5297.6 | 5983.7  |
| 52.5° | 364.7  | 339.6  | 343.6  | 388.8  | 513.4  | 2805.0 | 6009.9 | 6950.3  |
| 55°   | 339.6  | 311.4  | 313.4  | 351.7  | 476.2  | 2858.3 | 6705.1 | 8268.4  |
| 57.5° | 311.4  | 285.4  | 285.4  | 317.4  | 449.1  | 2477.5 | 7239.6 | 9904.0  |
| 60°   | 280.3  | 263.2  | 258.2  | 290.4  | 473.2  | 1748.1 | 7301.9 | 10958.9 |
| 62.5° | 246.1  | 237.1  | 230.1  | 264.2  | 491.3  | 1035.8 | 6800.6 | 10703.7 |
| 65°   | 206.9  | 205.0  | 200.0  | 290.4  | 413.9  | 611.8  | 5838.1 | 9921.1  |
| 67.5° | 173.8  | 170.8  | 170.8  | 304.4  | 314.5  | 384.8  | 4561.1 | 8844.1  |
| 70°   | 149.6  | 138.7  | 138.7  | 230.1  | 190.9  | 266.2  | 3184.8 | 7681.7  |
| 72.5° | 125.6  | 113.6  | 105.5  | 183.9  | 142.7  | 195.0  | 1990.2 | 6578.6  |
| 75°   | 100.4  | 91.4   | 81.4   | 121.6  | 106.5  | 147.7  | 1156.4 | 5450.3  |
| 77.5° | 72.4   | 68.4   | 57.3   | 89.4   | 77.4   | 106.5  | 688.2  | 4205.6  |
| 80°   | 37.2   | 38.1   | 36.2   | 51.2   | 52.3   | 72.4   | 391.9  | 2878.4  |
| 82.5° | 22.1   | 17.1   | 19.1   | 25.1   | 30.1   | 41.2   | 147.7  | 1691.9  |
| 85°   | 14.0   | 9.0    | 9.0    | 12.1   | 15.1   | 16.1   | 45.2   | 686.1   |
| 87.5° | 7.1    | 3.0    | 4.0    | 6.0    | 5.0    | 4.0    | 2.0    | 172.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     |

(END OF REPORT)