

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: P963136

Luminaire Tested: **NVN-SB2D-830-U-SLL-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P963136  
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-SB2D-830-U-SLL-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 900mA 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: 14304.9 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147.6  
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



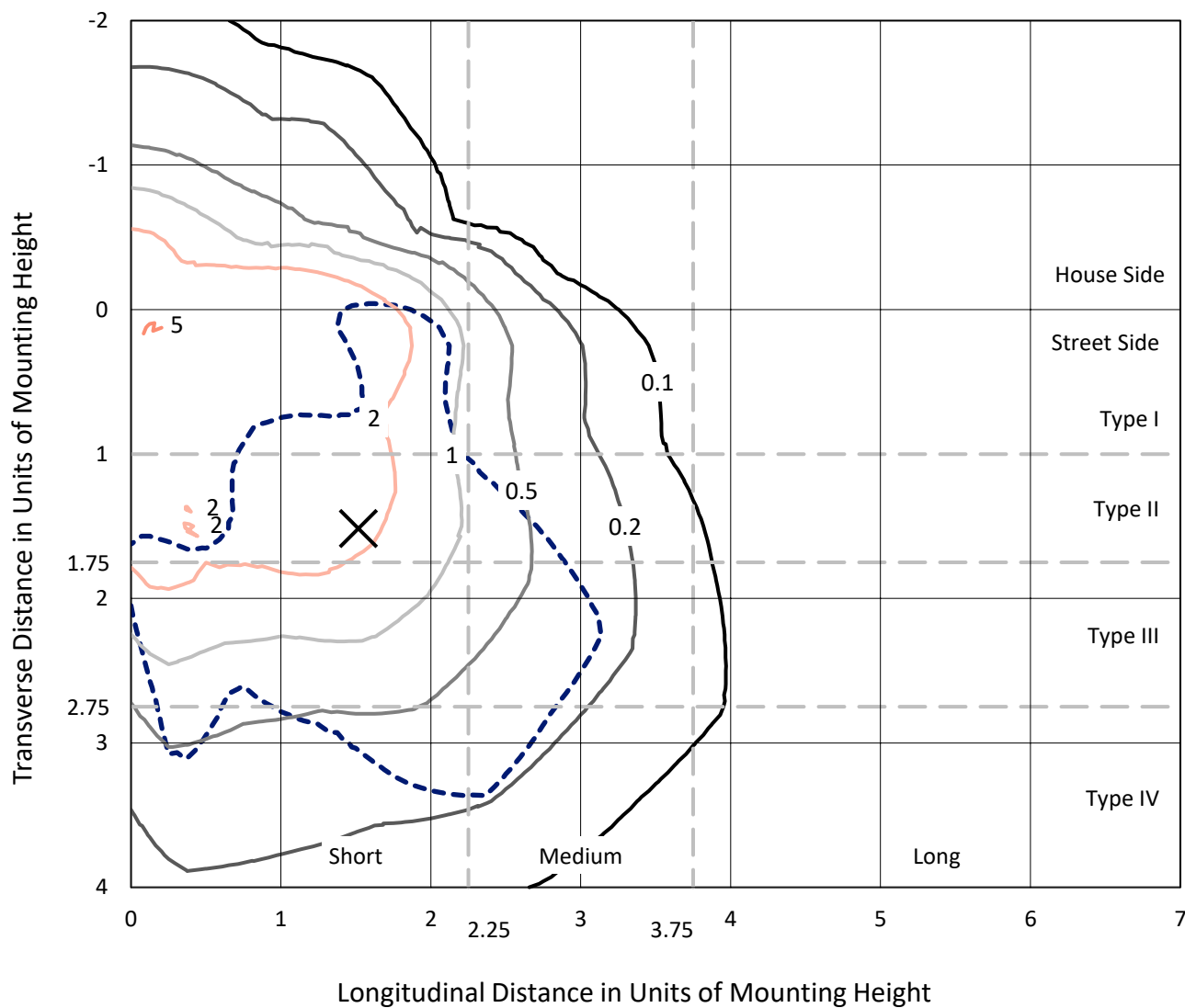
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

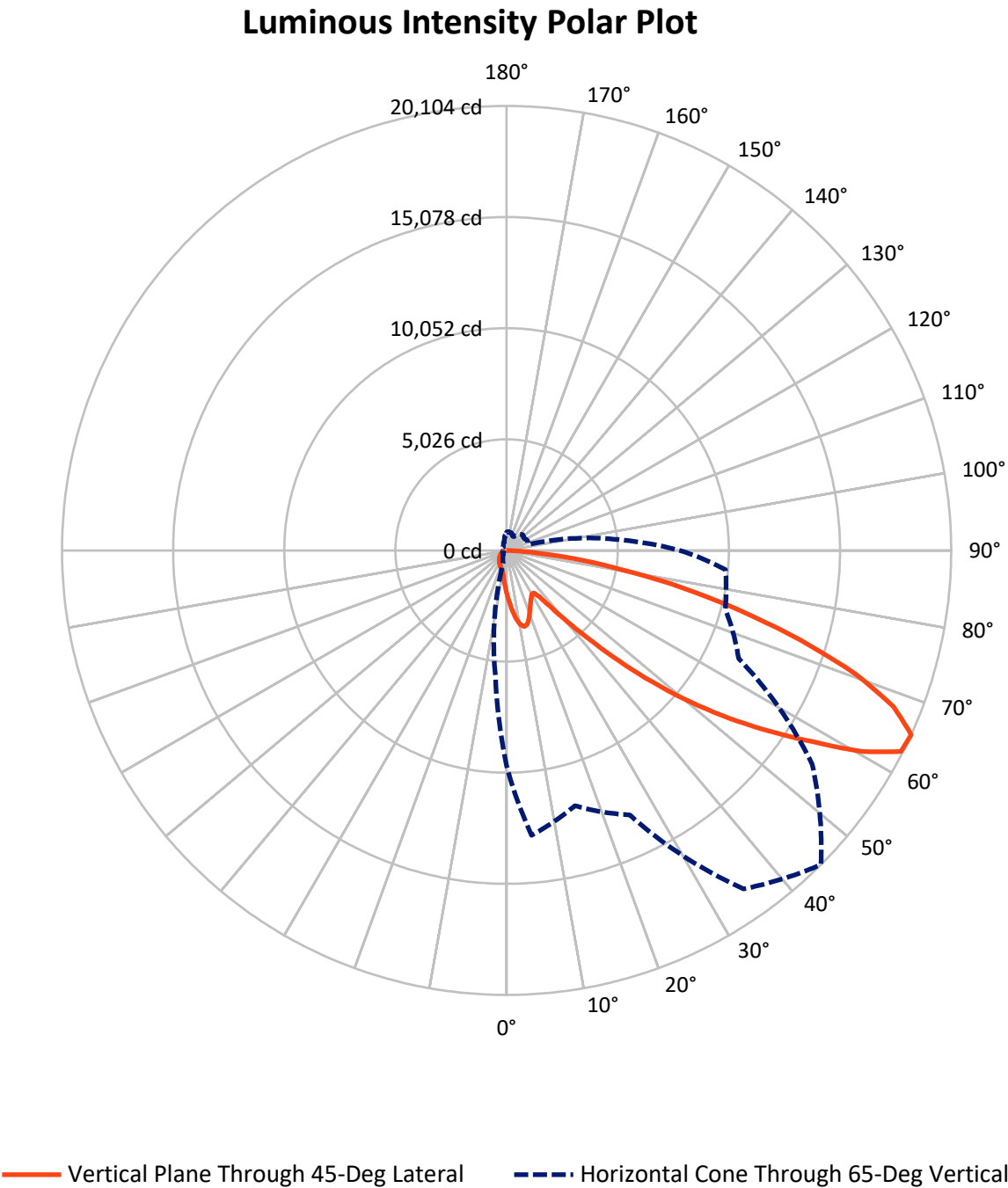
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc

Type IV - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2843.4   | 0.0    | 2843.4  |
|                    | % Fixture | 19.9     | 0.0    | 19.9    |
| <b>Street Side</b> | Lumens    | 11461.5  | 0.0    | 11461.5 |
|                    | % Fixture | 80.1     | 0.0    | 80.1    |
| <b>Total</b>       | Lumens    | 14304.9  | 0.0    | 14304.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 195.0   | 1.4       |
| 10°-20°   | 584.6   | 4.1       |
| 20°-30°   | 861.2   | 6.0       |
| 30°-40°   | 1106.4  | 7.7       |
| 40°-50°   | 1789.4  | 12.5      |
| 50°-60°   | 3138.0  | 21.9      |
| 60°-70°   | 3926.4  | 27.4      |
| 70°-80°   | 2294.4  | 16.0      |
| 80°-90°   | 409.4   | 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°    | 14304.9 | 100.0     |
| 0°-180°   | 14304.9 | 100.0     |

**Coefficient of Utilization**



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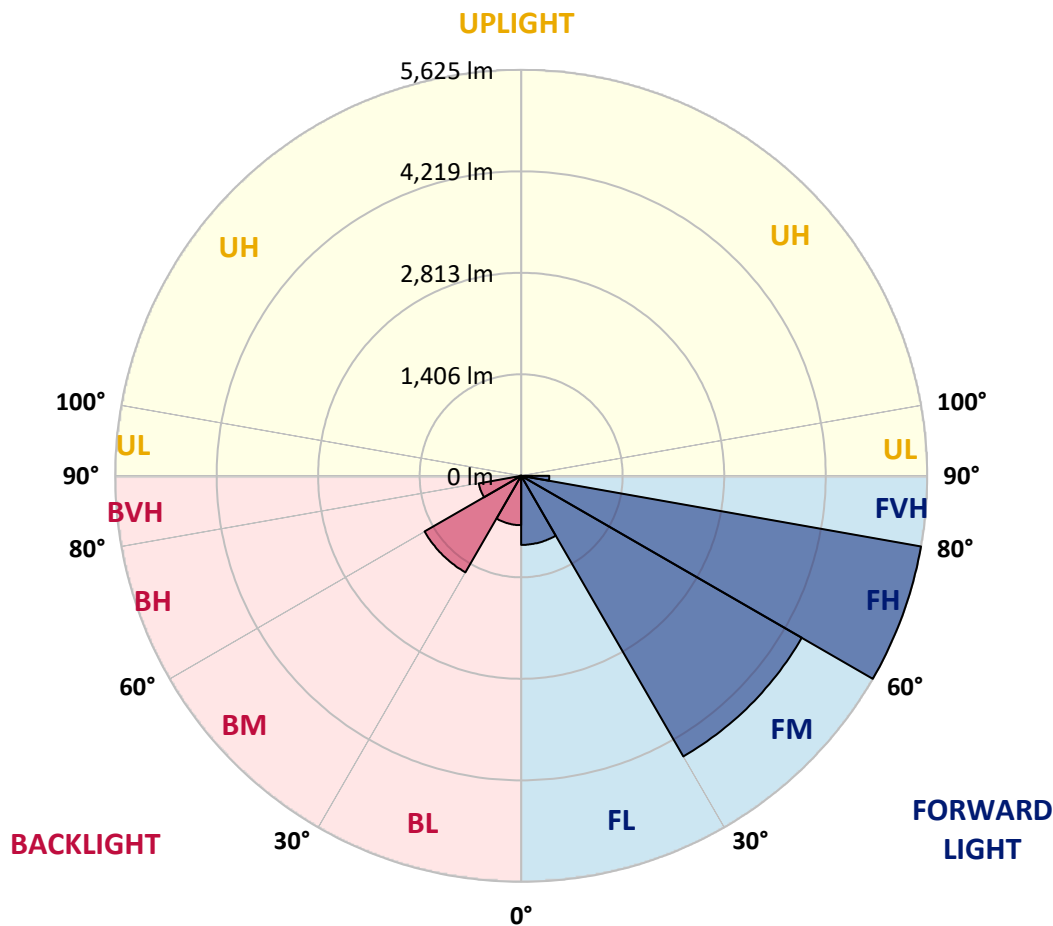
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 957.2  | 6.7       |                         |      |         |
| FM   | (30°-60°)   | 4489.0 | 31.4      |                         |      |         |
| FH   | (60°-80°)   | 5625.1 | 39.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 390.2  | 2.7       |                         |      | G3/500  |
| BL   | (0°-30°)    | 683.7  | 4.8       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1544.8 | 10.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 595.7  | 4.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 19.2   | 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°    | 1980.8  | 1980.8  | 1980.8  | 1980.8  | 1980.8  | 1980.8  | 1980.8  | 1980.8  | 1980.8  | 1980.8  | 1980.8  |
| 2.5°  | 2219.2  | 2236.0  | 2273.4  | 2293.1  | 2323.7  | 2325.7  | 2325.7  | 2299.1  | 2298.0  | 2243.9  | 2238.0  |
| 5°    | 2480.4  | 2519.9  | 2608.5  | 2700.2  | 2719.8  | 2724.8  | 2714.9  | 2661.7  | 2622.3  | 2516.9  | 2494.2  |
| 7.5°  | 2739.6  | 2815.5  | 2950.5  | 3072.6  | 3112.1  | 3112.1  | 3088.4  | 3001.7  | 2920.9  | 2768.1  | 2711.0  |
| 10°   | 2954.4  | 3050.0  | 3233.3  | 3370.3  | 3415.6  | 3405.8  | 3357.5  | 3248.0  | 3136.7  | 2951.5  | 2876.6  |
| 12.5° | 3096.3  | 3203.7  | 3404.7  | 3515.1  | 3561.5  | 3535.8  | 3480.6  | 3374.2  | 3256.9  | 3061.8  | 2977.1  |
| 15°   | 3167.2  | 3279.6  | 3454.0  | 3512.2  | 3499.4  | 3472.8  | 3465.8  | 3414.6  | 3325.9  | 3143.6  | 3051.0  |
| 17.5° | 3197.8  | 3302.2  | 3423.5  | 3387.0  | 3278.7  | 3258.0  | 3326.9  | 3391.9  | 3370.3  | 3214.6  | 3127.9  |
| 20°   | 3226.4  | 3314.1  | 3350.5  | 3189.0  | 2999.8  | 2981.0  | 3113.0  | 3298.3  | 3393.0  | 3280.6  | 3200.8  |
| 22.5° | 3265.9  | 3320.0  | 3245.1  | 2980.0  | 2776.0  | 2732.6  | 2878.5  | 3157.4  | 3399.8  | 3364.4  | 3284.5  |
| 25°   | 3320.0  | 3334.8  | 3128.8  | 2782.0  | 2577.0  | 2533.6  | 2669.6  | 3000.7  | 3388.0  | 3455.0  | 3387.0  |
| 27.5° | 3385.1  | 3354.5  | 3017.5  | 2616.4  | 2418.3  | 2377.9  | 2513.9  | 2849.9  | 3354.5  | 3545.7  | 3497.4  |
| 30°   | 3469.8  | 3380.1  | 2907.1  | 2488.3  | 2305.0  | 2275.4  | 2406.5  | 2719.8  | 3313.1  | 3661.0  | 3634.3  |
| 32.5° | 3555.5  | 3391.0  | 2804.6  | 2413.4  | 2279.4  | 2290.2  | 2397.6  | 2649.9  | 3267.8  | 3771.4  | 3784.2  |
| 35°   | 3648.2  | 3425.4  | 2754.4  | 2487.3  | 2493.2  | 2587.8  | 2632.2  | 2714.9  | 3260.8  | 3921.1  | 3971.4  |
| 37.5° | 3774.3  | 3502.3  | 2814.4  | 2854.8  | 3059.8  | 3255.9  | 3219.5  | 3033.3  | 3340.7  | 4144.8  | 4238.5  |
| 40°   | 3955.7  | 3637.3  | 3076.6  | 3480.6  | 3901.5  | 4219.7  | 4080.8  | 3611.7  | 3585.1  | 4467.1  | 4607.1  |
| 42.5° | 4219.7  | 3852.2  | 3541.8  | 4245.3  | 4958.8  | 5483.1  | 5110.5  | 4357.7  | 4012.8  | 4927.3  | 5105.6  |
| 45°   | 4609.9  | 4200.0  | 4104.4  | 5052.4  | 6262.5  | 7088.4  | 6313.8  | 5153.0  | 4612.0  | 5624.0  | 5764.0  |
| 47.5° | 5151.0  | 4711.5  | 4631.7  | 5902.9  | 7847.2  | 8915.4  | 7648.1  | 5890.1  | 5293.9  | 6574.0  | 6606.5  |
| 50°   | 5869.4  | 5400.3  | 5131.3  | 6833.2  | 9584.6  | 10778.0 | 8981.5  | 6601.6  | 6075.4  | 7734.9  | 7697.4  |
| 52.5° | 6817.4  | 6361.2  | 5713.7  | 7719.1  | 11371.2 | 12601.0 | 10320.7 | 7226.4  | 7045.0  | 9082.0  | 9005.1  |
| 55°   | 8110.3  | 7806.8  | 6510.0  | 8564.6  | 13156.9 | 14435.0 | 11607.7 | 7815.6  | 8326.2  | 10682.3 | 10217.2 |
| 57.5° | 9714.6  | 9931.4  | 7658.0  | 9545.1  | 14762.2 | 16325.1 | 12900.6 | 8639.5  | 9989.5  | 12472.0 | 10920.9 |
| 60°   | 10749.4 | 12756.7 | 9856.5  | 10994.8 | 16586.2 | 18462.6 | 14672.5 | 10206.4 | 11737.8 | 13113.5 | 10786.8 |
| 62.5° | 10499.1 | 13655.5 | 12489.7 | 12845.4 | 18263.4 | 20016.6 | 16408.8 | 11780.1 | 12066.9 | 12168.4 | 9754.1  |
| 65°   | 9731.3  | 12930.2 | 11952.6 | 13205.2 | 18688.2 | 20104.4 | 16873.0 | 11577.2 | 10236.0 | 9934.4  | 7840.3  |
| 67.5° | 8675.0  | 12069.9 | 10676.5 | 12251.2 | 17920.6 | 18878.4 | 16008.8 | 10240.9 | 7910.2  | 7455.0  | 5688.0  |
| 70°   | 7534.8  | 11118.0 | 9838.8  | 11181.0 | 16457.2 | 16741.9 | 14539.4 | 9007.1  | 5818.1  | 5034.7  | 3650.1  |
| 72.5° | 6452.8  | 10126.6 | 9265.3  | 10084.2 | 14505.0 | 13915.6 | 12626.7 | 7916.2  | 4236.5  | 3631.4  | 2594.7  |
| 75°   | 5346.1  | 8664.1  | 8448.4  | 8781.4  | 11937.9 | 10961.2 | 10491.2 | 6554.3  | 3324.9  | 2627.3  | 1790.6  |
| 77.5° | 4125.1  | 6770.1  | 7266.7  | 7032.2  | 8403.1  | 8141.9  | 8132.0  | 4925.3  | 2429.1  | 1753.2  | 1122.5  |
| 80°   | 2823.4  | 4718.4  | 5677.3  | 4960.8  | 5453.5  | 5320.5  | 6124.6  | 3304.3  | 1762.0  | 1055.4  | 624.7   |
| 82.5° | 1659.5  | 2872.6  | 3951.7  | 2401.6  | 3015.5  | 3095.3  | 3647.2  | 1607.3  | 1036.7  | 243.4   | 136.0   |
| 85°   | 673.1   | 1134.3  | 1545.2  | 940.1   | 1454.6  | 1226.9  | 1384.6  | 451.3   | 288.7   | 5.9     | 0.0     |
| 87.5° | 169.5   | 362.6   | 254.2   | 105.5   | 168.5   | 154.7   | 122.2   | 55.1    | 11.8    | 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°    | 1980.8 | 1980.8 | 1980.8 | 1980.8 | 1980.8 | 1980.8 | 1980.8 | 1980.8 | 1980.8 | 1980.8 | 1980.8 |
| 2.5°  | 2199.5 | 2176.9 | 2120.7 | 2064.6 | 2019.2 | 1958.1 | 1917.7 | 1869.4 | 1823.1 | 1781.8 | 1773.9 |
| 5°    | 2432.1 | 2357.2 | 2254.7 | 2161.1 | 2065.5 | 1972.9 | 1881.3 | 1784.6 | 1696.0 | 1641.7 | 1607.3 |
| 7.5°  | 2621.3 | 2489.3 | 2353.3 | 2234.0 | 2118.8 | 2010.3 | 1889.1 | 1771.8 | 1632.9 | 1559.0 | 1492.0 |
| 10°   | 2762.3 | 2588.8 | 2410.4 | 2273.4 | 2157.2 | 2051.7 | 1949.2 | 1831.0 | 1663.5 | 1570.8 | 1470.3 |
| 12.5° | 2854.8 | 2648.9 | 2440.0 | 2283.3 | 2153.2 | 2071.4 | 2026.1 | 1979.8 | 1813.2 | 1704.9 | 1559.0 |
| 15°   | 2918.9 | 2691.2 | 2460.7 | 2260.6 | 2101.0 | 2040.9 | 2086.2 | 2139.4 | 2033.0 | 1907.8 | 1717.7 |
| 17.5° | 2988.9 | 2746.5 | 2469.5 | 2199.5 | 1999.5 | 1973.8 | 2091.1 | 2214.3 | 2209.4 | 2085.3 | 1899.0 |
| 20°   | 3062.8 | 2794.8 | 2463.7 | 2101.0 | 1876.3 | 1899.0 | 2048.8 | 2191.7 | 2251.8 | 2184.8 | 2019.2 |
| 22.5° | 3138.7 | 2841.1 | 2440.9 | 1972.9 | 1761.1 | 1832.0 | 1981.7 | 2106.9 | 2177.8 | 2157.2 | 2031.0 |
| 25°   | 3234.3 | 2906.1 | 2407.5 | 1835.0 | 1665.4 | 1763.9 | 1903.9 | 2005.4 | 2054.7 | 2053.7 | 1967.0 |
| 27.5° | 3348.6 | 2992.8 | 2389.7 | 1723.5 | 1597.5 | 1687.2 | 1811.3 | 1901.9 | 1936.4 | 1936.4 | 1867.4 |
| 30°   | 3481.6 | 3095.3 | 2370.0 | 1650.7 | 1558.0 | 1607.3 | 1703.9 | 1792.5 | 1827.1 | 1827.1 | 1768.9 |
| 32.5° | 3629.4 | 3193.9 | 2322.8 | 1606.3 | 1528.5 | 1529.4 | 1590.5 | 1671.4 | 1712.8 | 1718.6 | 1677.2 |
| 35°   | 3806.8 | 3299.3 | 2219.2 | 1570.8 | 1493.9 | 1453.6 | 1483.1 | 1550.1 | 1599.4 | 1612.2 | 1586.6 |
| 37.5° | 4039.4 | 3428.4 | 2071.4 | 1518.6 | 1440.7 | 1373.7 | 1380.7 | 1431.8 | 1486.0 | 1505.8 | 1489.0 |
| 40°   | 4351.7 | 3580.1 | 1917.7 | 1443.7 | 1365.8 | 1286.1 | 1283.1 | 1320.5 | 1373.7 | 1395.4 | 1386.5 |
| 42.5° | 4764.7 | 3762.5 | 1770.9 | 1371.8 | 1275.2 | 1193.4 | 1188.5 | 1218.0 | 1264.3 | 1287.0 | 1283.1 |
| 45°   | 5292.9 | 3986.2 | 1644.7 | 1315.6 | 1186.5 | 1105.7 | 1103.7 | 1128.3 | 1168.7 | 1192.4 | 1187.5 |
| 47.5° | 6027.1 | 4209.9 | 1559.0 | 1286.1 | 1116.5 | 1033.7 | 1037.7 | 1059.3 | 1095.8 | 1112.5 | 1105.7 |
| 50°   | 6983.9 | 4277.8 | 1515.7 | 1286.1 | 1079.1 | 969.6  | 989.4  | 1007.2 | 1034.7 | 1044.6 | 1035.8 |
| 52.5° | 7902.3 | 4053.2 | 1476.2 | 1293.9 | 1084.0 | 915.5  | 957.9  | 970.7  | 994.4  | 998.2  | 985.4  |
| 55°   | 8352.7 | 3484.6 | 1422.0 | 1295.9 | 1114.6 | 869.2  | 932.2  | 955.9  | 964.7  | 963.8  | 942.1  |
| 57.5° | 8198.1 | 2817.4 | 1330.3 | 1288.0 | 1135.3 | 839.6  | 900.7  | 946.1  | 951.9  | 943.1  | 902.7  |
| 60°   | 7655.0 | 2074.4 | 1260.4 | 1229.9 | 1127.4 | 830.8  | 852.4  | 924.3  | 933.3  | 921.4  | 855.4  |
| 62.5° | 6744.5 | 1439.7 | 1206.2 | 1101.8 | 1092.9 | 827.8  | 776.5  | 877.1  | 898.7  | 882.0  | 785.5  |
| 65°   | 5309.6 | 1017.0 | 1038.6 | 965.8  | 1017.9 | 812.0  | 697.7  | 819.9  | 849.4  | 823.8  | 687.9  |
| 67.5° | 3592.9 | 734.2  | 841.6  | 875.0  | 896.8  | 776.5  | 640.5  | 754.8  | 794.3  | 760.8  | 574.5  |
| 70°   | 1940.3 | 515.4  | 555.8  | 737.1  | 761.8  | 715.4  | 589.3  | 688.8  | 734.2  | 697.7  | 468.1  |
| 72.5° | 1146.1 | 370.5  | 389.3  | 592.2  | 634.7  | 629.7  | 532.2  | 611.9  | 667.2  | 623.8  | 380.4  |
| 75°   | 631.7  | 250.3  | 277.9  | 429.7  | 515.4  | 485.8  | 457.3  | 518.3  | 574.5  | 532.2  | 293.7  |
| 77.5° | 282.8  | 149.8  | 193.1  | 281.9  | 405.0  | 333.1  | 353.8  | 404.1  | 456.2  | 411.9  | 196.1  |
| 80°   | 109.4  | 83.7   | 128.1  | 153.8  | 294.7  | 184.3  | 227.7  | 297.6  | 335.1  | 299.6  | 119.2  |
| 82.5° | 13.8   | 37.4   | 55.1   | 60.1   | 171.5  | 97.6   | 132.0  | 187.3  | 184.3  | 159.7  | 60.1   |
| 85°   | 0.0    | 6.9    | 7.9    | 3.9    | 73.9   | 35.5   | 43.4   | 61.1   | 57.2   | 43.4   | 4.9    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.9    | 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°    | 1980.8 | 1980.8 | 1980.8 | 1980.8 | 1980.8 | 1980.8 | 1980.8 | 1980.8 | 1980.8 | 1980.8 | 1980.8 |
| 2.5°  | 1725.6 | 1690.0 | 1672.3 | 1657.5 | 1671.4 | 1679.3 | 1679.3 | 1712.8 | 1732.5 | 1740.3 | 1795.5 |
| 5°    | 1520.6 | 1454.6 | 1410.2 | 1383.5 | 1392.5 | 1402.3 | 1413.2 | 1455.5 | 1484.1 | 1502.9 | 1588.5 |
| 7.5°  | 1358.9 | 1258.4 | 1196.4 | 1163.8 | 1168.7 | 1175.7 | 1184.5 | 1225.9 | 1254.5 | 1279.1 | 1374.7 |
| 10°   | 1279.1 | 1137.2 | 1055.4 | 1016.0 | 1009.1 | 1005.2 | 1002.2 | 1026.8 | 1048.6 | 1068.3 | 1162.9 |
| 12.5° | 1283.1 | 1085.0 | 985.4  | 937.2  | 916.5  | 892.8  | 874.1  | 878.0  | 891.9  | 916.5  | 976.6  |
| 15°   | 1333.3 | 1068.3 | 948.9  | 888.9  | 854.4  | 826.8  | 804.1  | 799.2  | 804.1  | 808.1  | 845.5  |
| 17.5° | 1401.3 | 1066.3 | 917.5  | 842.6  | 807.1  | 784.4  | 763.7  | 756.9  | 757.8  | 762.7  | 772.6  |
| 20°   | 1455.5 | 1060.4 | 882.0  | 798.3  | 766.7  | 747.0  | 726.3  | 719.3  | 721.4  | 722.3  | 733.2  |
| 22.5° | 1484.1 | 1051.4 | 842.6  | 753.9  | 727.2  | 707.6  | 688.8  | 687.9  | 687.9  | 693.7  | 701.6  |
| 25°   | 1484.1 | 1032.8 | 807.1  | 711.5  | 687.9  | 670.1  | 647.5  | 651.4  | 653.3  | 661.2  | 673.1  |
| 27.5° | 1448.6 | 997.3  | 778.5  | 675.1  | 650.4  | 632.6  | 611.9  | 616.9  | 619.8  | 628.7  | 643.5  |
| 30°   | 1403.3 | 954.9  | 746.0  | 640.5  | 611.9  | 599.1  | 581.4  | 583.4  | 587.3  | 597.2  | 614.0  |
| 32.5° | 1355.0 | 904.7  | 719.3  | 606.1  | 577.5  | 567.6  | 548.0  | 550.8  | 554.8  | 565.7  | 584.4  |
| 35°   | 1301.8 | 845.5  | 687.9  | 574.5  | 545.9  | 538.0  | 515.4  | 517.3  | 523.3  | 535.2  | 553.8  |
| 37.5° | 1245.6 | 797.2  | 656.3  | 544.0  | 514.4  | 506.6  | 482.9  | 484.8  | 491.7  | 505.5  | 523.3  |
| 40°   | 1190.4 | 749.9  | 622.8  | 511.5  | 481.9  | 475.0  | 449.4  | 451.3  | 459.2  | 474.0  | 492.7  |
| 42.5° | 1130.4 | 713.5  | 579.4  | 478.0  | 446.4  | 439.5  | 415.8  | 418.8  | 427.7  | 442.5  | 461.1  |
| 45°   | 1058.4 | 689.8  | 531.2  | 446.4  | 410.9  | 404.1  | 382.3  | 388.3  | 398.1  | 412.9  | 432.7  |
| 47.5° | 984.5  | 680.0  | 490.8  | 412.9  | 374.4  | 368.6  | 350.9  | 360.7  | 371.6  | 383.3  | 405.0  |
| 50°   | 913.5  | 667.2  | 449.4  | 381.4  | 343.0  | 337.0  | 325.2  | 338.0  | 348.8  | 359.7  | 380.4  |
| 52.5° | 832.7  | 639.6  | 411.9  | 353.8  | 316.3  | 314.4  | 308.4  | 320.3  | 330.2  | 340.0  | 357.7  |
| 55°   | 749.0  | 595.2  | 379.4  | 329.1  | 293.7  | 295.6  | 292.6  | 302.6  | 310.4  | 319.3  | 335.1  |
| 57.5° | 676.0  | 539.0  | 353.8  | 302.6  | 274.0  | 279.8  | 275.9  | 280.8  | 285.8  | 296.6  | 309.4  |
| 60°   | 602.1  | 472.0  | 325.2  | 271.0  | 254.2  | 261.2  | 250.3  | 249.3  | 251.3  | 254.2  | 277.9  |
| 62.5° | 502.6  | 402.1  | 289.8  | 243.4  | 232.6  | 235.5  | 214.8  | 199.1  | 199.1  | 202.0  | 237.5  |
| 65°   | 404.1  | 337.0  | 250.3  | 211.9  | 203.1  | 201.0  | 171.5  | 149.8  | 147.8  | 156.7  | 187.3  |
| 67.5° | 332.1  | 279.8  | 210.8  | 176.4  | 170.5  | 172.4  | 150.8  | 129.0  | 127.1  | 136.9  | 159.7  |
| 70°   | 274.9  | 225.7  | 168.5  | 136.0  | 141.9  | 150.8  | 129.0  | 108.4  | 105.5  | 114.3  | 136.0  |
| 72.5° | 218.7  | 176.4  | 129.0  | 100.6  | 117.3  | 128.1  | 105.5  | 85.7   | 83.7   | 91.6   | 112.3  |
| 75°   | 160.6  | 126.2  | 87.7   | 72.9   | 90.7   | 100.6  | 76.9   | 61.1   | 58.1   | 65.1   | 85.7   |
| 77.5° | 99.5   | 70.9   | 55.1   | 43.4   | 62.1   | 67.0   | 40.4   | 35.5   | 34.4   | 39.5   | 54.2   |
| 80°   | 46.3   | 30.5   | 26.6   | 14.8   | 22.7   | 26.6   | 16.7   | 18.8   | 19.7   | 23.7   | 33.5   |
| 82.5° | 12.8   | 4.9    | 1.0    | 0.0    | 0.0    | 7.9    | 3.9    | 7.9    | 9.8    | 14.8   | 21.7   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.9    | 4.9    | 8.9    | 15.8   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 3.9    | 7.9    |
| 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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|       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 360°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|
| 0°    | 1980.8 | 1980.8 | 1980.8 | 1980.8 | 1980.8 | 1980.8 | 1980.8 | 1980.8  |
| 2.5°  | 1836.9 | 1876.3 | 1939.4 | 2004.4 | 2068.4 | 2133.5 | 2196.6 | 2219.2  |
| 5°    | 1666.4 | 1757.1 | 1882.2 | 2016.3 | 2154.2 | 2294.2 | 2422.3 | 2480.4  |
| 7.5°  | 1476.2 | 1606.3 | 1794.6 | 2004.4 | 2224.1 | 2443.9 | 2645.9 | 2739.6  |
| 10°   | 1273.3 | 1437.8 | 1652.6 | 1936.4 | 2251.8 | 2555.3 | 2833.2 | 2954.4  |
| 12.5° | 1080.0 | 1252.6 | 1490.0 | 1830.0 | 2230.1 | 2619.4 | 2953.4 | 3096.3  |
| 15°   | 918.4  | 1071.2 | 1327.4 | 1703.9 | 2160.1 | 2623.3 | 3010.5 | 3167.2  |
| 17.5° | 797.2  | 896.8  | 1161.8 | 1563.9 | 2068.4 | 2586.8 | 3030.3 | 3197.8  |
| 20°   | 737.1  | 764.8  | 947.0  | 1384.6 | 1982.8 | 2552.4 | 3050.0 | 3226.4  |
| 22.5° | 701.6  | 708.6  | 774.6  | 1153.0 | 1880.3 | 2541.5 | 3084.5 | 3265.9  |
| 25°   | 673.1  | 675.1  | 692.8  | 913.5  | 1723.5 | 2534.6 | 3137.7 | 3320.0  |
| 27.5° | 644.5  | 644.5  | 654.4  | 736.2  | 1510.7 | 2505.0 | 3206.7 | 3385.1  |
| 30°   | 615.9  | 615.9  | 622.8  | 651.4  | 1261.4 | 2446.9 | 3289.4 | 3469.8  |
| 32.5° | 586.3  | 586.3  | 592.2  | 612.9  | 1007.2 | 2374.0 | 3365.4 | 3555.5  |
| 35°   | 556.8  | 554.8  | 562.7  | 584.4  | 801.1  | 2281.3 | 3441.2 | 3648.2  |
| 37.5° | 525.2  | 524.3  | 532.2  | 556.8  | 691.8  | 2173.9 | 3498.4 | 3774.3  |
| 40°   | 491.7  | 491.7  | 500.6  | 527.3  | 660.3  | 2038.9 | 3589.0 | 3955.7  |
| 42.5° | 461.1  | 459.2  | 469.0  | 501.6  | 636.6  | 1909.8 | 3751.6 | 4219.7  |
| 45°   | 431.6  | 427.7  | 436.5  | 476.9  | 595.2  | 1864.5 | 4055.2 | 4609.9  |
| 47.5° | 404.1  | 394.2  | 402.1  | 447.4  | 557.8  | 2034.0 | 4551.8 | 5151.0  |
| 50°   | 381.4  | 362.6  | 369.5  | 417.8  | 529.2  | 2401.6 | 5196.3 | 5869.4  |
| 52.5° | 357.7  | 333.1  | 337.0  | 381.4  | 503.6  | 2751.4 | 5895.0 | 6817.4  |
| 55°   | 333.1  | 305.4  | 307.5  | 344.9  | 467.1  | 2803.6 | 6576.9 | 8110.3  |
| 57.5° | 305.4  | 279.8  | 279.8  | 311.4  | 440.5  | 2430.2 | 7101.2 | 9714.6  |
| 60°   | 274.9  | 258.2  | 253.3  | 284.8  | 464.1  | 1714.7 | 7162.3 | 10749.4 |
| 62.5° | 241.4  | 232.6  | 225.7  | 259.2  | 481.9  | 1016.0 | 6670.6 | 10499.1 |
| 65°   | 203.1  | 201.0  | 196.1  | 284.8  | 406.0  | 600.1  | 5726.5 | 9731.3  |
| 67.5° | 170.5  | 167.5  | 167.5  | 298.6  | 308.4  | 377.4  | 4474.0 | 8675.0  |
| 70°   | 146.9  | 136.0  | 136.0  | 225.7  | 187.3  | 261.2  | 3123.9 | 7534.8  |
| 72.5° | 123.2  | 111.3  | 103.4  | 180.3  | 139.9  | 191.2  | 1952.2 | 6452.8  |
| 75°   | 98.5   | 89.7   | 79.8   | 119.2  | 104.4  | 144.8  | 1134.3 | 5346.1  |
| 77.5° | 70.9   | 67.0   | 56.2   | 87.7   | 75.8   | 104.4  | 675.1  | 4125.1  |
| 80°   | 36.5   | 37.4   | 35.5   | 50.2   | 51.2   | 70.9   | 384.4  | 2823.4  |
| 82.5° | 21.7   | 16.7   | 18.8   | 24.6   | 29.5   | 40.4   | 144.8  | 1659.5  |
| 85°   | 13.8   | 8.9    | 8.9    | 11.8   | 14.8   | 15.8   | 44.4   | 673.1   |
| 87.5° | 6.9    | 3.0    | 3.9    | 5.9    | 4.9    | 3.9    | 1.9    | 169.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     |

(END OF REPORT)