

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: P885006

Luminaire Tested: **NVN-SB6A-830-U-T2-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885006  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6A-830-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

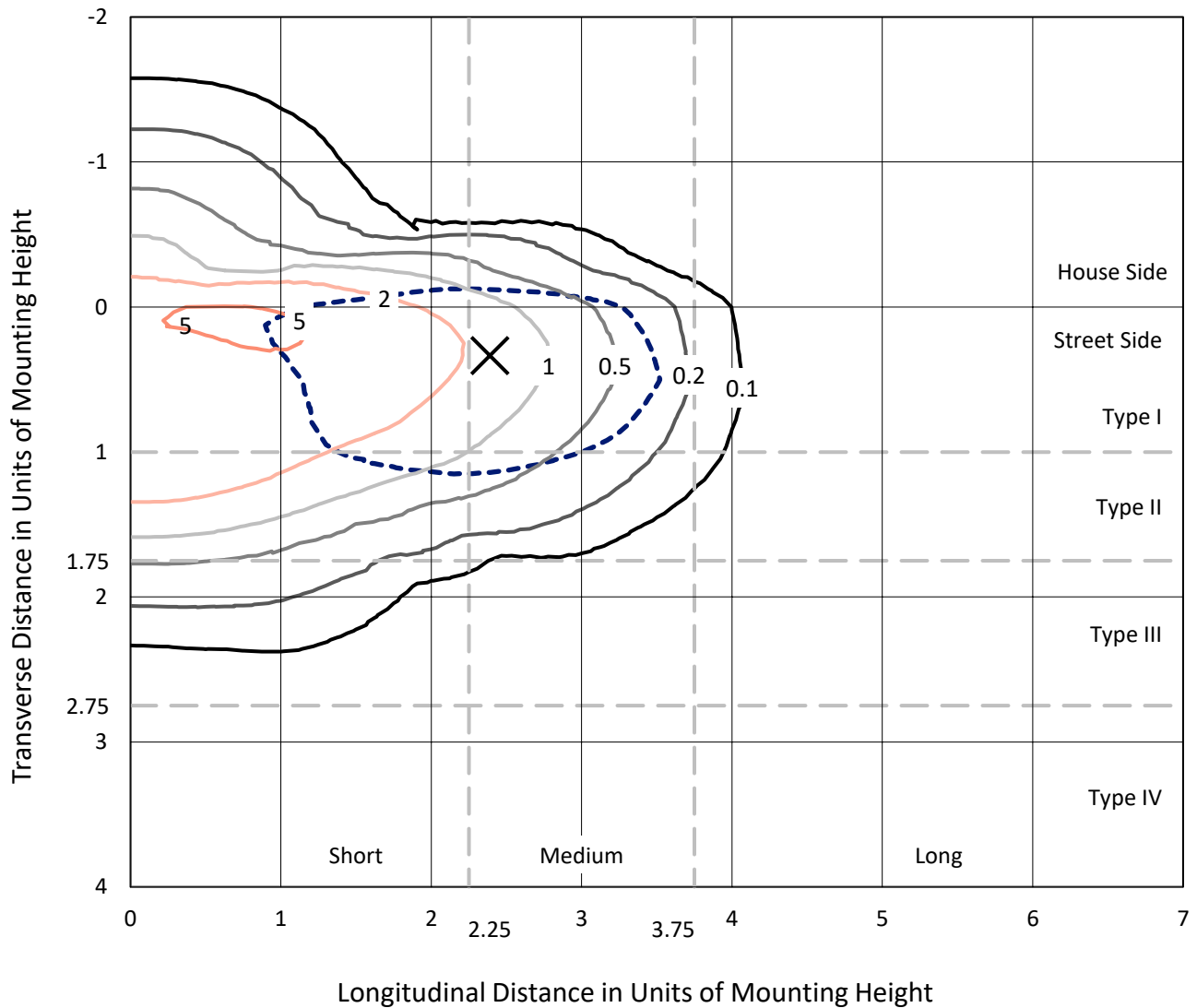
Lumens per Lamp: N/A  
Luminaire Lumens: 17397 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 170.9  
Input Voltage (V): 120.0  
Input Current (Ain): 1.434  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
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

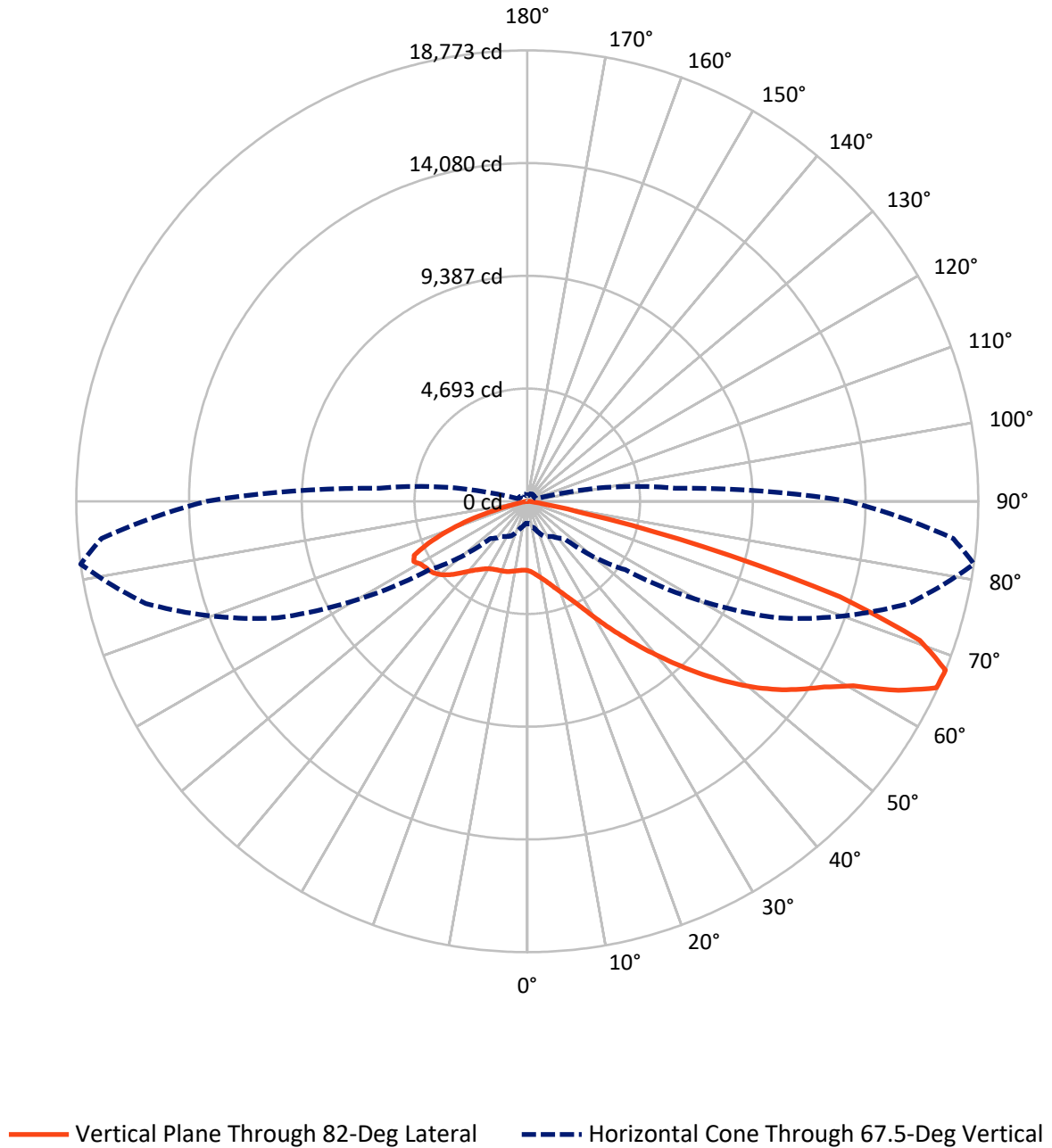
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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    | 3151.3   | 0.0    | 3151.3  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 14245.7  | 0.0    | 14245.7 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 17397.0  | 0.0    | 17397.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 256.8   | 1.5       |
| 10°-20°   | 667.2   | 3.8       |
| 20°-30°   | 1068.7  | 6.1       |
| 30°-40°   | 1889.8  | 10.9      |
| 40°-50°   | 3311.2  | 19.0      |
| 50°-60°   | 4416.2  | 25.4      |
| 60°-70°   | 4111.2  | 23.6      |
| 70°-80°   | 1577.9  | 9.1       |
| 80°-90°   | 98.0    | 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°    | 17397.0 | 100.0     |
| 0°-180°   | 17397.0 | 100.0     |

**Coefficient of Utilization**



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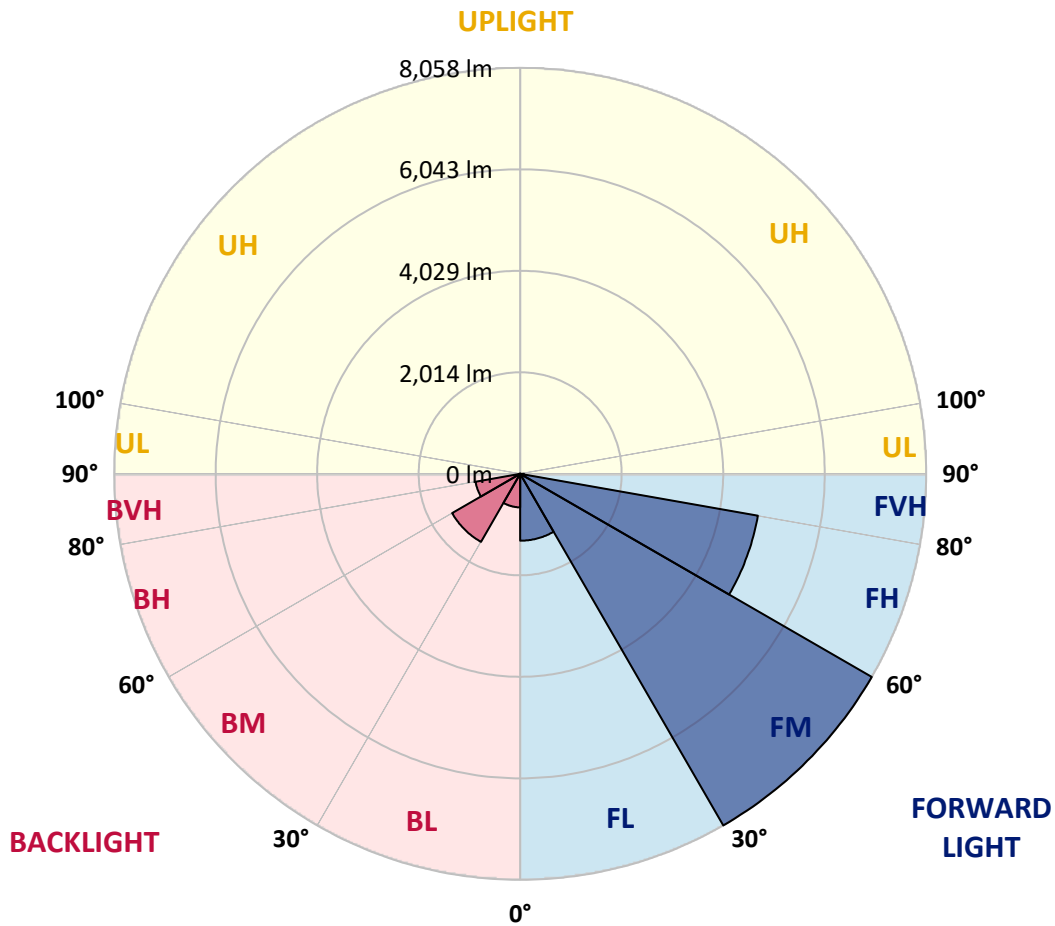
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1327.2 | 7.6       |                         |      |         |
| FM (30°-60°)   | 8057.6 | 46.3      |                         |      |         |
| FH (60°-80°)   | 4789.7 | 27.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 71.3   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 665.5  | 3.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 1559.6 | 9.0       | B2/2500                 |      |         |
| BH (60°-80°)   | 899.4  | 5.2       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 26.8   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 82°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 2882.1 | 2882.1 | 2882.1 | 2882.1 | 2882.1 | 2882.1 | 2882.1 | 2882.1  | 2882.1  | 2882.1  | 2882.1  |
| 2.5°  | 3046.2 | 3063.7 | 3053.7 | 3048.7 | 3039.9 | 3027.4 | 3017.4 | 2986.1  | 2953.5  | 2932.2  | 2924.7  |
| 5°    | 3107.6 | 3125.1 | 3123.8 | 3128.8 | 3135.1 | 3138.9 | 3136.4 | 3101.3  | 3054.9  | 3018.6  | 2997.3  |
| 7.5°  | 3054.9 | 3075.0 | 3091.3 | 3116.3 | 3160.2 | 3206.5 | 3229.0 | 3221.5  | 3173.9  | 3123.8  | 3097.5  |
| 10°   | 2905.9 | 2927.2 | 2966.0 | 3024.9 | 3117.6 | 3217.8 | 3301.7 | 3340.5  | 3310.5  | 3255.4  | 3219.0  |
| 12.5° | 2632.8 | 2654.1 | 2730.5 | 2858.3 | 3013.6 | 3187.7 | 3348.0 | 3452.0  | 3459.5  | 3404.4  | 3361.8  |
| 15°   | 2326.0 | 2347.3 | 2428.7 | 2589.0 | 2825.7 | 3105.0 | 3373.1 | 3569.7  | 3636.1  | 3588.5  | 3537.2  |
| 17.5° | 2135.6 | 2154.4 | 2215.7 | 2344.8 | 2591.5 | 2939.7 | 3364.3 | 3695.0  | 3846.5  | 3809.0  | 3747.6  |
| 20°   | 2078.0 | 2094.2 | 2123.1 | 2213.2 | 2418.7 | 2768.1 | 3306.7 | 3812.7  | 4073.3  | 4052.0  | 3983.1  |
| 22.5° | 2139.3 | 2154.4 | 2163.1 | 2203.2 | 2332.2 | 2655.4 | 3234.1 | 3933.0  | 4336.3  | 4338.8  | 4254.9  |
| 25°   | 2280.9 | 2295.9 | 2285.9 | 2310.9 | 2367.3 | 2620.3 | 3206.5 | 4074.5  | 4667.0  | 4694.5  | 4599.3  |
| 27.5° | 2513.8 | 2515.1 | 2491.3 | 2490.0 | 2498.8 | 2672.9 | 3235.3 | 4226.1  | 5084.1  | 5135.4  | 5017.7  |
| 30°   | 2981.0 | 2962.3 | 2870.8 | 2771.9 | 2726.8 | 2830.7 | 3315.5 | 4405.2  | 5576.3  | 5667.7  | 5519.9  |
| 32.5° | 3701.3 | 3673.7 | 3505.9 | 3269.1 | 3031.1 | 3085.0 | 3459.5 | 4609.3  | 6112.4  | 6277.7  | 6097.4  |
| 35°   | 4482.8 | 4475.3 | 4300.0 | 3948.0 | 3532.2 | 3447.0 | 3693.7 | 4877.4  | 6697.3  | 6960.4  | 6746.2  |
| 37.5° | 5209.3 | 5205.6 | 5105.4 | 4690.8 | 4184.7 | 3951.8 | 4069.5 | 5228.1  | 7323.6  | 7704.4  | 7451.4  |
| 40°   | 5873.2 | 5884.4 | 5784.2 | 5413.5 | 4903.7 | 4599.3 | 4580.5 | 5661.5  | 8020.0  | 8514.8  | 8214.2  |
| 42.5° | 6446.8 | 6459.3 | 6357.9 | 6083.6 | 5613.9 | 5315.8 | 5208.1 | 6192.6  | 8700.1  | 9385.3  | 9029.6  |
| 45°   | 6836.4 | 6914.0 | 6899.0 | 6679.8 | 6342.9 | 6033.5 | 5962.1 | 6858.9  | 9475.5  | 10308.4 | 9891.3  |
| 47.5° | 6946.6 | 7018.0 | 7130.7 | 7160.8 | 6955.4 | 6651.0 | 6736.2 | 7661.8  | 10259.6 | 11232.8 | 10758.1 |
| 50°   | 6674.8 | 6741.2 | 6975.4 | 7287.3 | 7430.1 | 7336.1 | 7488.9 | 8522.3  | 11062.4 | 12154.6 | 11608.5 |
| 52.5° | 6138.7 | 6206.3 | 6501.9 | 6995.4 | 7577.9 | 7873.5 | 8244.2 | 9370.3  | 11840.3 | 13027.7 | 12413.9 |
| 55°   | 5363.4 | 5434.8 | 5814.3 | 6372.9 | 7296.0 | 8095.2 | 8874.2 | 10217.0 | 12553.0 | 13813.0 | 13140.4 |
| 57.5° | 4308.7 | 4361.3 | 4755.9 | 5537.5 | 6587.1 | 7874.7 | 9338.9 | 11141.3 | 13224.3 | 14584.6 | 13860.6 |
| 60°   | 2808.2 | 2854.5 | 3313.0 | 4184.7 | 5412.2 | 7138.2 | 9431.6 | 12172.2 | 14116.1 | 15587.9 | 14831.3 |
| 62.5° | 1867.5 | 1898.9 | 2170.7 | 2810.7 | 3811.5 | 5724.1 | 8889.3 | 12995.1 | 15423.8 | 17333.9 | 16495.9 |
| 65°   | 1281.3 | 1312.7 | 1584.5 | 2030.4 | 2462.5 | 3786.4 | 7329.9 | 12886.1 | 16608.7 | 18720.5 | 17729.7 |
| 67.5° | 914.4  | 940.7  | 1171.1 | 1592.0 | 1782.4 | 2199.5 | 4968.8 | 11493.3 | 16438.3 | 18773.1 | 17796.1 |
| 70°   | 655.1  | 670.1  | 860.5  | 1240.0 | 1416.6 | 1321.4 | 2763.1 | 8790.3  | 14392.9 | 17335.2 | 16440.8 |
| 72.5° | 458.4  | 463.4  | 597.5  | 944.4  | 1141.1 | 964.5  | 1315.2 | 5860.6  | 10885.8 | 13606.3 | 12745.8 |
| 75°   | 310.6  | 316.9  | 402.1  | 692.7  | 915.6  | 736.5  | 696.4  | 3142.6  | 6390.5  | 7531.5  | 6751.2  |
| 77.5° | 190.4  | 192.9  | 259.3  | 473.5  | 685.1  | 561.1  | 448.4  | 1331.4  | 2472.5  | 2427.4  | 2069.2  |
| 80°   | 107.7  | 107.7  | 165.3  | 294.3  | 467.2  | 362.0  | 314.4  | 566.1   | 782.8   | 687.6   | 606.2   |
| 82.5° | 60.1   | 61.4   | 120.2  | 182.9  | 309.4  | 214.2  | 172.9  | 261.8   | 338.2   | 299.4   | 260.5   |
| 85°   | 25.1   | 27.6   | 73.9   | 86.4   | 147.8  | 106.5  | 70.1   | 110.2   | 125.3   | 111.5   | 81.4    |
| 87.5° | 2.5    | 3.8    | 22.5   | 16.3   | 17.5   | 21.3   | 10.0   | 21.3    | 17.5    | 17.5    | 12.5    |
| 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°    | 2882.1  | 2882.1 | 2882.1 | 2882.1 | 2882.1 | 2882.1 | 2882.1 | 2882.1 | 2882.1 | 2882.1 | 2882.1 |
| 2.5°  | 2900.9  | 2882.1 | 2834.5 | 2779.4 | 2706.7 | 2671.7 | 2624.1 | 2591.5 | 2563.9 | 2566.5 | 2541.4 |
| 5°    | 2957.2  | 2909.7 | 2803.2 | 2670.4 | 2505.1 | 2387.3 | 2262.1 | 2175.7 | 2105.5 | 2090.5 | 2056.7 |
| 7.5°  | 3034.9  | 2959.8 | 2773.1 | 2533.9 | 2254.6 | 2042.9 | 1853.8 | 1732.3 | 1645.8 | 1618.3 | 1590.7 |
| 10°   | 3135.1  | 3026.1 | 2734.3 | 2362.3 | 1960.2 | 1690.9 | 1488.0 | 1392.8 | 1334.0 | 1313.9 | 1298.9 |
| 12.5° | 3251.6  | 3102.5 | 2682.9 | 2153.1 | 1657.1 | 1397.8 | 1268.8 | 1221.2 | 1202.4 | 1196.2 | 1192.4 |
| 15°   | 3398.1  | 3197.7 | 2605.3 | 1905.1 | 1400.3 | 1218.7 | 1163.6 | 1157.3 | 1159.9 | 1157.3 | 1156.1 |
| 17.5° | 3572.2  | 3301.7 | 2478.8 | 1649.6 | 1227.5 | 1127.3 | 1107.2 | 1112.3 | 1118.5 | 1117.3 | 1114.8 |
| 20°   | 3762.6  | 3404.4 | 2317.2 | 1422.9 | 1109.8 | 1062.2 | 1050.9 | 1055.9 | 1060.9 | 1058.4 | 1057.1 |
| 22.5° | 3979.3  | 3514.6 | 2138.1 | 1246.3 | 1030.8 | 1002.0 | 989.5  | 990.8  | 990.8  | 985.7  | 983.2  |
| 25°   | 4238.6  | 3636.1 | 1950.2 | 1121.0 | 970.7  | 948.2  | 933.1  | 928.1  | 920.6  | 905.6  | 903.1  |
| 27.5° | 4548.0  | 3765.1 | 1769.8 | 1033.3 | 923.1  | 901.8  | 884.3  | 871.8  | 853.0  | 827.9  | 825.4  |
| 30°   | 4896.2  | 3921.7 | 1617.0 | 978.2  | 885.5  | 864.3  | 844.2  | 825.4  | 797.9  | 766.6  | 764.0  |
| 32.5° | 5305.8  | 4089.5 | 1505.6 | 941.9  | 851.7  | 829.2  | 805.4  | 782.8  | 752.8  | 721.5  | 722.7  |
| 35°   | 5794.2  | 4292.5 | 1440.4 | 916.9  | 825.4  | 795.4  | 769.1  | 744.0  | 721.5  | 693.9  | 691.4  |
| 37.5° | 6324.1  | 4507.9 | 1420.4 | 904.3  | 807.9  | 761.5  | 731.5  | 713.9  | 711.4  | 695.2  | 693.9  |
| 40°   | 6904.0  | 4763.4 | 1435.4 | 896.8  | 789.1  | 729.0  | 696.4  | 692.7  | 698.9  | 670.1  | 671.4  |
| 42.5° | 7517.7  | 5066.5 | 1460.5 | 888.1  | 762.8  | 696.4  | 665.1  | 665.1  | 660.1  | 620.0  | 620.0  |
| 45°   | 8181.6  | 5416.0 | 1485.5 | 866.8  | 731.5  | 663.8  | 640.0  | 631.3  | 610.0  | 571.2  | 569.9  |
| 47.5° | 8850.4  | 5771.7 | 1504.3 | 827.9  | 693.9  | 636.3  | 615.0  | 595.0  | 563.6  | 528.6  | 527.3  |
| 50°   | 9485.5  | 6091.1 | 1484.3 | 770.3  | 651.3  | 610.0  | 587.4  | 559.9  | 526.1  | 502.3  | 498.5  |
| 52.5° | 10052.9 | 6367.9 | 1399.1 | 702.7  | 606.2  | 582.4  | 562.4  | 533.6  | 506.0  | 481.0  | 478.5  |
| 55°   | 10546.4 | 6592.1 | 1248.8 | 638.8  | 566.1  | 558.6  | 538.6  | 502.3  | 464.7  | 443.4  | 440.9  |
| 57.5° | 11019.8 | 6762.5 | 1060.9 | 586.2  | 529.8  | 532.3  | 502.3  | 469.7  | 434.6  | 412.1  | 409.6  |
| 60°   | 11649.9 | 6990.4 | 870.5  | 537.3  | 491.0  | 498.5  | 465.9  | 442.1  | 398.3  | 369.5  | 365.7  |
| 62.5° | 12656.9 | 7344.9 | 691.4  | 477.2  | 445.9  | 448.4  | 434.6  | 405.8  | 353.2  | 319.4  | 316.9  |
| 65°   | 13456.0 | 7214.6 | 544.9  | 412.1  | 394.6  | 398.3  | 398.3  | 367.0  | 310.6  | 271.8  | 268.0  |
| 67.5° | 13365.9 | 6177.5 | 434.6  | 348.2  | 345.7  | 348.2  | 357.0  | 330.7  | 275.6  | 244.2  | 239.2  |
| 70°   | 12312.5 | 4913.7 | 348.2  | 289.3  | 300.6  | 294.3  | 319.4  | 301.9  | 248.0  | 216.7  | 212.9  |
| 72.5° | 10046.6 | 3539.7 | 265.5  | 239.2  | 230.5  | 240.5  | 288.1  | 271.8  | 206.7  | 171.6  | 167.8  |
| 75°   | 5870.7  | 1888.8 | 197.9  | 189.1  | 166.6  | 200.4  | 255.5  | 231.7  | 157.8  | 126.5  | 122.7  |
| 77.5° | 1911.4  | 658.8  | 145.3  | 139.0  | 124.0  | 161.6  | 217.9  | 195.4  | 129.0  | 100.2  | 96.4   |
| 80°   | 512.3   | 199.2  | 99.0   | 91.4   | 80.2   | 120.2  | 172.9  | 155.3  | 92.7   | 65.1   | 63.9   |
| 82.5° | 205.4   | 83.9   | 57.6   | 51.4   | 43.8   | 82.7   | 136.5  | 125.3  | 68.9   | 41.3   | 41.3   |
| 85°   | 66.4    | 27.6   | 21.3   | 16.3   | 20.0   | 51.4   | 81.4   | 85.2   | 48.8   | 21.3   | 16.3   |
| 87.5° | 8.8     | 3.8    | 3.8    | 5.0    | 3.8    | 8.8    | 25.1   | 23.8   | 13.8   | 2.5    | 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)