

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: P969787

Luminaire Tested: **NVN-SB6A-727-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969787  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6A-727-U-T4W-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19920.9 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

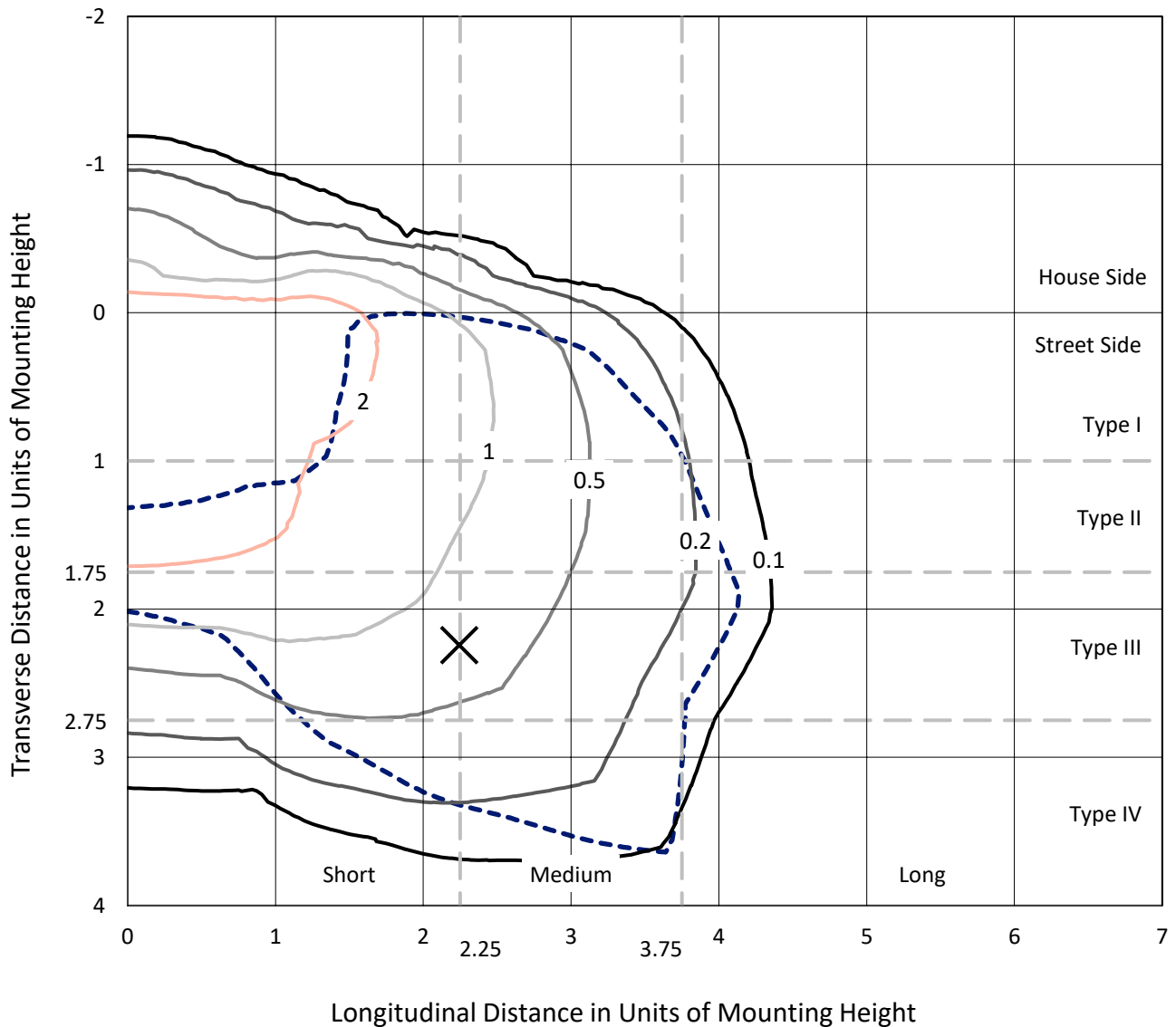
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

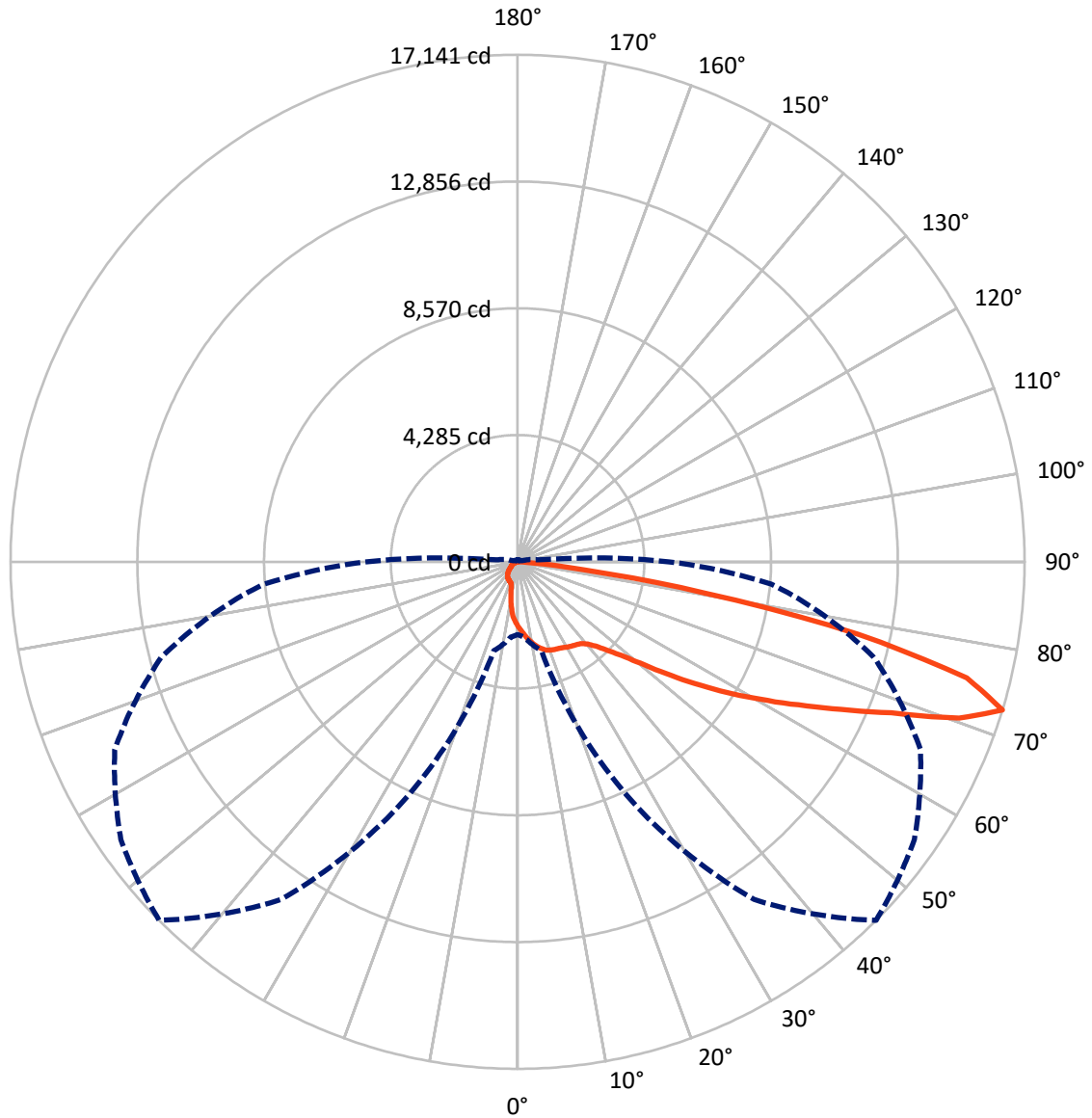
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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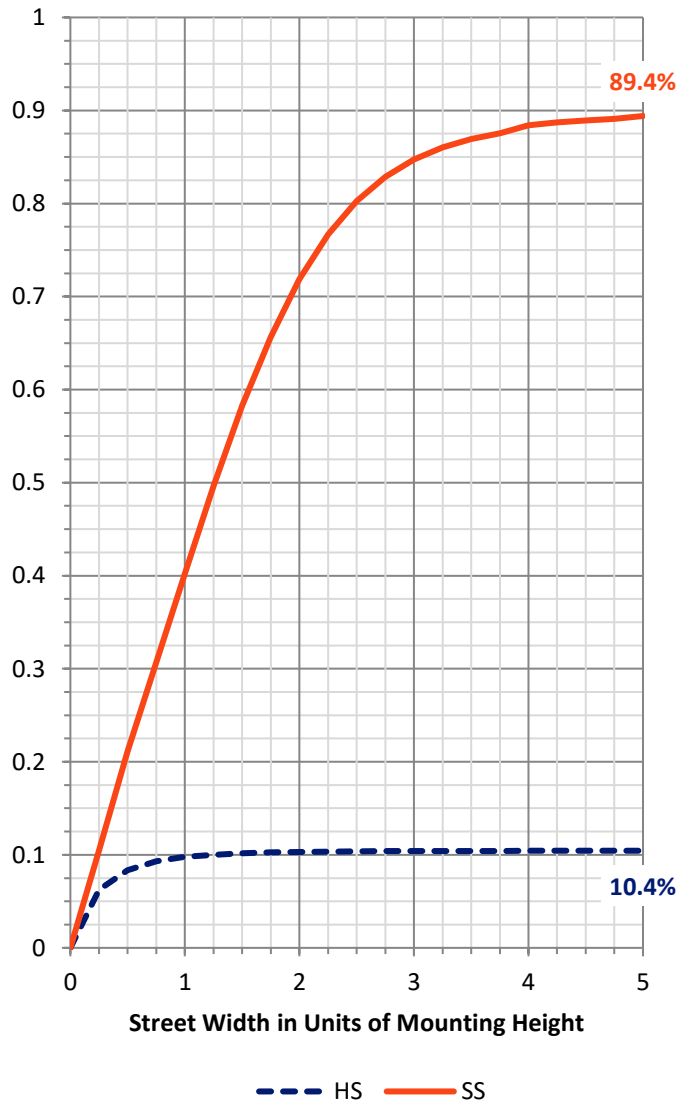
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2093.1   | 0.0    | 2093.1  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 17827.8  | 0.0    | 17827.8 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 19920.9  | 0.0    | 19920.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 205.6   | 1.0       |
| 10°-20°   | 600.9   | 3.0       |
| 20°-30°   | 986.9   | 5.0       |
| 30°-40°   | 1399.6  | 7.0       |
| 40°-50°   | 2313.4  | 11.6      |
| 50°-60°   | 4155.7  | 20.9      |
| 60°-70°   | 5770.4  | 29.0      |
| 70°-80°   | 4185.7  | 21.0      |
| 80°-90°   | 302.6   | 1.5       |
| 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°    | 19920.9 | 100.0     |
| 0°-180°   | 19920.9 | 100.0     |

**Coefficient of Utilization**



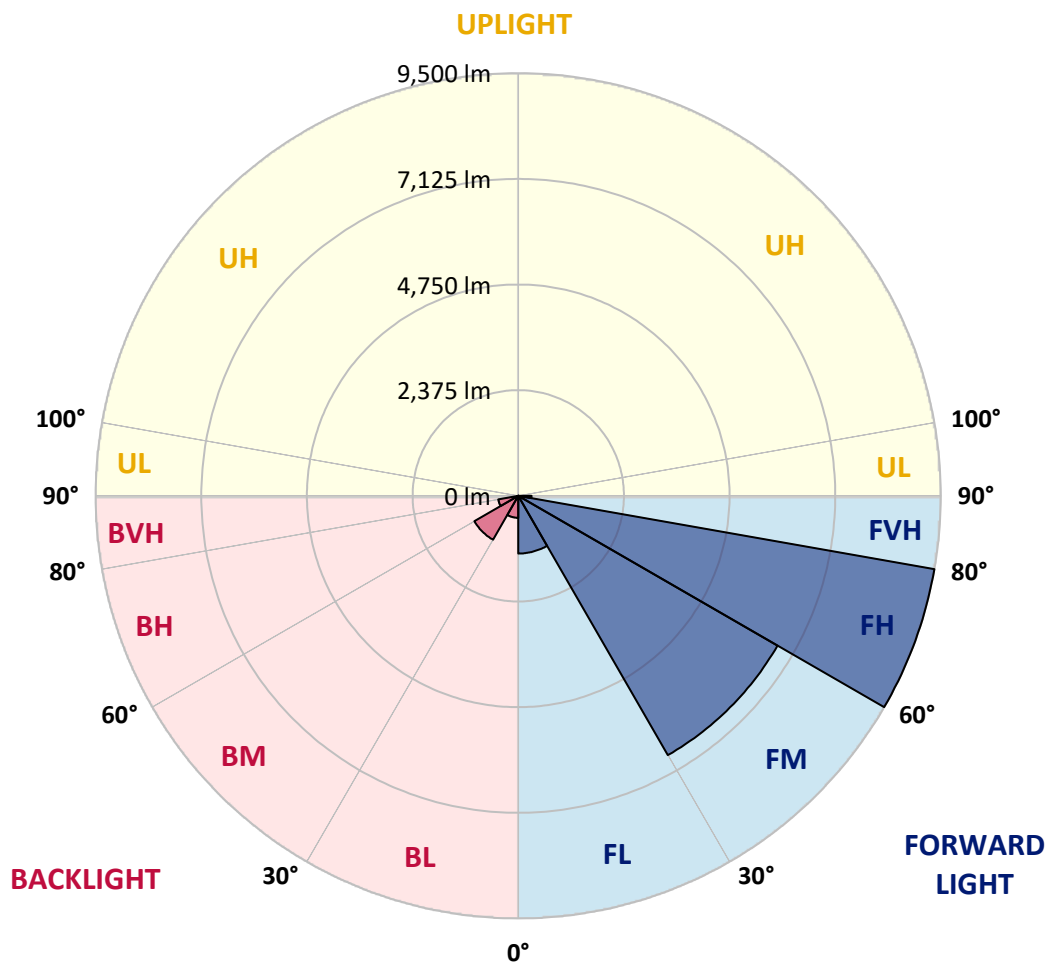
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1297.6 | 6.5       |                         |      |          |
| FM (30°-60°)   | 6730.3 | 33.8      |                         |      |          |
| FH (60°-80°)   | 9499.7 | 47.7      |                         |      | G4/12000 |
| FVH (80°-90°)  | 300.1  | 1.5       |                         |      | G3/500   |
| BL (0°-30°)    | 495.8  | 2.5       | B1/500                  |      |          |
| BM (30°-60°)   | 1138.4 | 5.7       | B2/2500                 |      |          |
| BH (60°-80°)   | 456.4  | 2.3       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 2.5    | 0.0       |                         |      | G0/10    |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2182.3 | 2182.3 | 2182.3  | 2182.3  | 2182.3  | 2182.3  | 2182.3  | 2182.3  | 2182.3  | 2182.3  | 2182.3  |
| 2.5°  | 2383.6 | 2387.7 | 2385.0  | 2368.7  | 2341.5  | 2326.5  | 2318.3  | 2291.2  | 2273.4  | 2242.2  | 2209.6  |
| 5°    | 2602.6 | 2618.9 | 2609.3  | 2576.7  | 2525.0  | 2488.3  | 2477.4  | 2421.7  | 2371.3  | 2312.9  | 2245.0  |
| 7.5°  | 2835.0 | 2843.2 | 2825.5  | 2783.4  | 2714.0  | 2651.5  | 2641.9  | 2564.4  | 2484.2  | 2394.5  | 2302.0  |
| 10°   | 3036.3 | 3045.8 | 3018.6  | 2957.4  | 2878.5  | 2801.0  | 2787.5  | 2701.8  | 2606.6  | 2496.5  | 2378.2  |
| 12.5° | 3204.9 | 3214.4 | 3179.0  | 3105.6  | 3018.6  | 2938.4  | 2924.8  | 2835.0  | 2730.4  | 2608.0  | 2461.1  |
| 15°   | 3332.7 | 3350.4 | 3302.8  | 3223.9  | 3130.1  | 3049.9  | 3043.1  | 2954.7  | 2852.7  | 2716.8  | 2560.3  |
| 17.5° | 3407.5 | 3425.1 | 3380.3  | 3285.1  | 3204.9  | 3136.9  | 3128.7  | 3055.3  | 2960.1  | 2829.6  | 2656.9  |
| 20°   | 3419.7 | 3436.0 | 3388.4  | 3305.5  | 3238.9  | 3184.5  | 3180.4  | 3127.4  | 3058.1  | 2932.9  | 2761.7  |
| 22.5° | 3383.0 | 3403.4 | 3360.0  | 3293.3  | 3247.1  | 3218.5  | 3213.1  | 3183.1  | 3143.7  | 3037.7  | 2859.5  |
| 25°   | 3345.0 | 3361.3 | 3328.6  | 3270.2  | 3245.7  | 3243.0  | 3247.1  | 3241.6  | 3233.5  | 3143.7  | 2973.7  |
| 27.5° | 3342.2 | 3360.0 | 3323.2  | 3267.4  | 3253.9  | 3282.4  | 3286.5  | 3312.3  | 3319.2  | 3240.2  | 3083.9  |
| 30°   | 3365.4 | 3377.6 | 3342.2  | 3283.8  | 3276.9  | 3342.2  | 3343.6  | 3389.8  | 3400.7  | 3321.8  | 3192.7  |
| 32.5° | 3415.6 | 3429.2 | 3393.9  | 3308.2  | 3298.8  | 3389.8  | 3393.9  | 3455.1  | 3472.8  | 3408.8  | 3306.9  |
| 35°   | 3534.0 | 3550.3 | 3509.5  | 3376.2  | 3342.2  | 3434.7  | 3447.0  | 3519.0  | 3554.4  | 3501.3  | 3425.1  |
| 37.5° | 3829.0 | 3781.4 | 3725.7  | 3513.6  | 3441.4  | 3505.4  | 3525.8  | 3610.0  | 3672.7  | 3611.5  | 3566.6  |
| 40°   | 4561.9 | 4412.3 | 4238.3  | 3747.4  | 3615.6  | 3656.3  | 3672.7  | 3756.9  | 3842.6  | 3782.8  | 3761.0  |
| 42.5° | 5661.9 | 5485.2 | 5205.1  | 4285.9  | 3878.0  | 3898.4  | 3910.6  | 3984.1  | 4105.0  | 4057.5  | 4062.9  |
| 45°   | 6642.3 | 6578.3 | 6292.9  | 5205.1  | 4368.9  | 4268.2  | 4283.2  | 4321.2  | 4499.3  | 4481.7  | 4517.1  |
| 47.5° | 7395.6 | 7358.9 | 7138.6  | 6260.2  | 5198.3  | 4721.0  | 4763.2  | 4780.8  | 5037.8  | 5100.4  | 5195.5  |
| 50°   | 7974.8 | 7961.3 | 7764.1  | 7198.5  | 6282.0  | 5388.6  | 5403.6  | 5365.5  | 5750.4  | 5905.3  | 6086.1  |
| 52.5° | 8521.4 | 8567.7 | 8422.2  | 8070.0  | 7439.1  | 6263.0  | 6260.2  | 6080.7  | 6600.2  | 6834.0  | 7142.7  |
| 55°   | 9015.1 | 9031.4 | 9046.3  | 8959.3  | 8603.0  | 7258.2  | 7232.4  | 6938.7  | 7585.9  | 7828.0  | 8162.5  |
| 57.5° | 9478.7 | 9485.6 | 9618.8  | 9796.8  | 9814.6  | 8327.0  | 8279.4  | 7927.2  | 8662.9  | 8835.6  | 9040.9  |
| 60°   | 9790.1 | 9821.3 | 10102.8 | 10597.8 | 10814.0 | 9429.8  | 9404.0  | 9044.9  | 9758.8  | 9839.1  | 9800.9  |
| 62.5° | 9341.3 | 9531.8 | 10241.5 | 11223.2 | 11757.7 | 10652.2 | 10639.9 | 10302.7 | 10911.8 | 10846.7 | 10520.3 |
| 65°   | 7561.5 | 7883.8 | 9131.9  | 11646.2 | 12683.6 | 12017.3 | 12035.0 | 11676.1 | 12096.2 | 11884.1 | 11105.0 |
| 67.5° | 5289.4 | 5629.3 | 7106.0  | 11680.1 | 13718.4 | 13620.5 | 13722.4 | 13159.5 | 13353.9 | 12878.0 | 11243.6 |
| 70°   | 3657.7 | 3833.1 | 4794.4  | 10948.5 | 14524.7 | 15828.7 | 15826.0 | 14981.6 | 14604.9 | 13330.8 | 10536.6 |
| 72.5° | 2459.8 | 2550.8 | 3113.7  | 8686.0  | 13931.8 | 17140.8 | 17061.9 | 16374.0 | 15026.4 | 12467.4 | 8608.5  |
| 75°   | 1037.5 | 1104.1 | 1441.4  | 4881.5  | 11022.0 | 15681.8 | 15468.4 | 14470.3 | 13351.2 | 9817.2  | 5371.0  |
| 77.5° | 329.0  | 357.6  | 568.4   | 1747.2  | 6071.2  | 11787.5 | 11561.8 | 9036.8  | 8948.5  | 4924.9  | 1963.5  |
| 80°   | 156.4  | 182.2  | 319.5   | 701.6   | 2389.1  | 6411.2  | 6379.9  | 4099.6  | 3849.4  | 1329.8  | 394.3   |
| 82.5° | 68.0   | 80.3   | 176.8   | 375.3   | 1068.8  | 2287.1  | 2333.3  | 1395.1  | 1154.5  | 504.5   | 121.1   |
| 85°   | 21.7   | 28.6   | 81.6    | 172.7   | 451.4   | 568.4   | 561.6   | 331.8   | 465.0   | 274.7   | 42.1    |
| 87.5° | 0.0    | 0.0    | 27.2    | 39.5    | 46.2    | 32.6    | 36.7    | 28.6    | 129.1   | 76.2    | 15.0    |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2182.3 | 2182.3 | 2182.3 | 2182.3 | 2182.3 | 2182.3 | 2182.3 | 2182.3 | 2182.3 | 2182.3 | 2182.3 |
| 2.5°  | 2193.3 | 2171.5 | 2133.4 | 2098.1 | 2066.8 | 2035.5 | 2016.5 | 1989.3 | 1986.6 | 1986.6 | 1993.4 |
| 5°    | 2208.3 | 2172.9 | 2104.8 | 2032.8 | 1949.9 | 1871.0 | 1792.1 | 1716.0 | 1691.6 | 1673.8 | 1682.0 |
| 7.5°  | 2251.7 | 2196.0 | 2088.5 | 1951.2 | 1793.4 | 1620.8 | 1499.8 | 1369.3 | 1319.0 | 1291.7 | 1295.8 |
| 10°   | 2314.2 | 2238.1 | 2074.9 | 1834.2 | 1578.6 | 1343.5 | 1170.8 | 1029.3 | 975.0  | 951.8  | 951.8  |
| 12.5° | 2383.6 | 2289.7 | 2050.5 | 1688.8 | 1343.5 | 1062.0 | 893.4  | 828.1  | 819.9  | 819.9  | 819.9  |
| 15°   | 2466.6 | 2352.4 | 2008.3 | 1517.5 | 1097.3 | 840.3  | 780.5  | 783.2  | 791.4  | 796.8  | 796.8  |
| 17.5° | 2552.2 | 2419.0 | 1941.7 | 1325.7 | 879.8  | 756.0  | 757.4  | 761.5  | 768.2  | 773.7  | 773.7  |
| 20°   | 2644.7 | 2485.6 | 1853.3 | 1121.8 | 754.6  | 731.5  | 735.6  | 739.7  | 745.2  | 747.8  | 749.2  |
| 22.5° | 2743.9 | 2548.1 | 1748.6 | 921.9  | 712.5  | 711.1  | 712.5  | 716.6  | 723.3  | 723.3  | 726.1  |
| 25°   | 2850.0 | 2617.4 | 1628.9 | 776.4  | 690.7  | 690.7  | 693.5  | 696.2  | 701.6  | 701.6  | 702.9  |
| 27.5° | 2958.8 | 2681.4 | 1502.5 | 700.3  | 671.7  | 670.3  | 670.3  | 674.4  | 677.1  | 678.6  | 679.9  |
| 30°   | 3078.5 | 2756.2 | 1376.1 | 684.0  | 656.7  | 650.0  | 645.9  | 648.6  | 651.3  | 652.7  | 655.4  |
| 32.5° | 3200.8 | 2828.3 | 1263.2 | 690.7  | 641.8  | 629.6  | 615.9  | 613.3  | 613.3  | 618.7  | 622.8  |
| 35°   | 3336.8 | 2907.1 | 1176.2 | 713.8  | 633.7  | 599.6  | 577.9  | 565.7  | 567.0  | 575.1  | 579.2  |
| 37.5° | 3500.0 | 3002.3 | 1112.2 | 734.2  | 628.2  | 565.7  | 530.3  | 515.4  | 505.8  | 515.4  | 512.6  |
| 40°   | 3713.5 | 3142.3 | 1066.0 | 750.6  | 621.4  | 526.2  | 478.7  | 454.2  | 436.4  | 441.9  | 439.2  |
| 42.5° | 4027.5 | 3362.6 | 1048.4 | 751.9  | 606.5  | 480.0  | 425.6  | 393.0  | 367.2  | 368.5  | 363.1  |
| 45°   | 4468.1 | 3710.7 | 1139.5 | 734.2  | 573.8  | 429.7  | 369.8  | 326.4  | 310.1  | 306.0  | 300.5  |
| 47.5° | 5071.8 | 4217.9 | 1350.2 | 697.5  | 526.2  | 380.7  | 315.5  | 278.7  | 266.5  | 259.7  | 255.6  |
| 50°   | 5880.8 | 4869.2 | 1584.1 | 656.7  | 478.7  | 334.5  | 270.6  | 247.4  | 239.3  | 232.5  | 231.1  |
| 52.5° | 6819.1 | 5530.1 | 1775.8 | 615.9  | 431.0  | 293.7  | 242.0  | 228.5  | 221.6  | 216.2  | 214.8  |
| 55°   | 7679.8 | 5985.6 | 1764.9 | 572.5  | 384.8  | 261.1  | 221.6  | 213.5  | 205.3  | 199.9  | 197.2  |
| 57.5° | 8215.5 | 6049.4 | 1454.9 | 524.9  | 331.8  | 235.2  | 202.6  | 197.2  | 187.7  | 180.8  | 179.5  |
| 60°   | 8461.6 | 5685.1 | 1019.8 | 462.3  | 278.7  | 210.7  | 182.2  | 179.5  | 167.3  | 157.7  | 155.0  |
| 62.5° | 8506.5 | 5007.9 | 679.9  | 384.8  | 232.5  | 187.7  | 161.8  | 157.7  | 141.4  | 125.0  | 117.0  |
| 65°   | 8324.3 | 4039.7 | 470.5  | 300.5  | 198.5  | 163.2  | 138.7  | 130.6  | 112.9  | 96.6   | 91.1   |
| 67.5° | 7747.8 | 2836.4 | 327.7  | 216.2  | 168.6  | 129.1  | 110.2  | 107.4  | 93.8   | 80.3   | 76.2   |
| 70°   | 6691.3 | 1616.7 | 218.9  | 161.8  | 133.2  | 88.4   | 87.0   | 89.8   | 76.2   | 65.3   | 59.9   |
| 72.5° | 5130.3 | 739.7  | 136.0  | 118.3  | 91.1   | 59.9   | 69.4   | 70.7   | 58.4   | 49.0   | 43.6   |
| 75°   | 3020.0 | 316.8  | 85.7   | 76.2   | 46.2   | 39.5   | 50.3   | 51.7   | 39.5   | 31.3   | 27.2   |
| 77.5° | 1028.0 | 119.6  | 54.4   | 44.9   | 23.2   | 21.7   | 32.6   | 32.6   | 21.7   | 12.2   | 9.5    |
| 80°   | 233.9  | 44.9   | 27.2   | 17.6   | 10.9   | 9.5    | 10.9   | 9.5    | 5.4    | 1.3    | 0.0    |
| 82.5° | 66.6   | 17.6   | 10.9   | 6.8    | 4.1    | 4.1    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 19.1   | 8.2    | 2.8    | 2.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 8.2    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |

(END OF REPORT)