

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: P967792

Luminaire Tested: **NVN-SB5A-750-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967792  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB5A-750-U-T2R-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

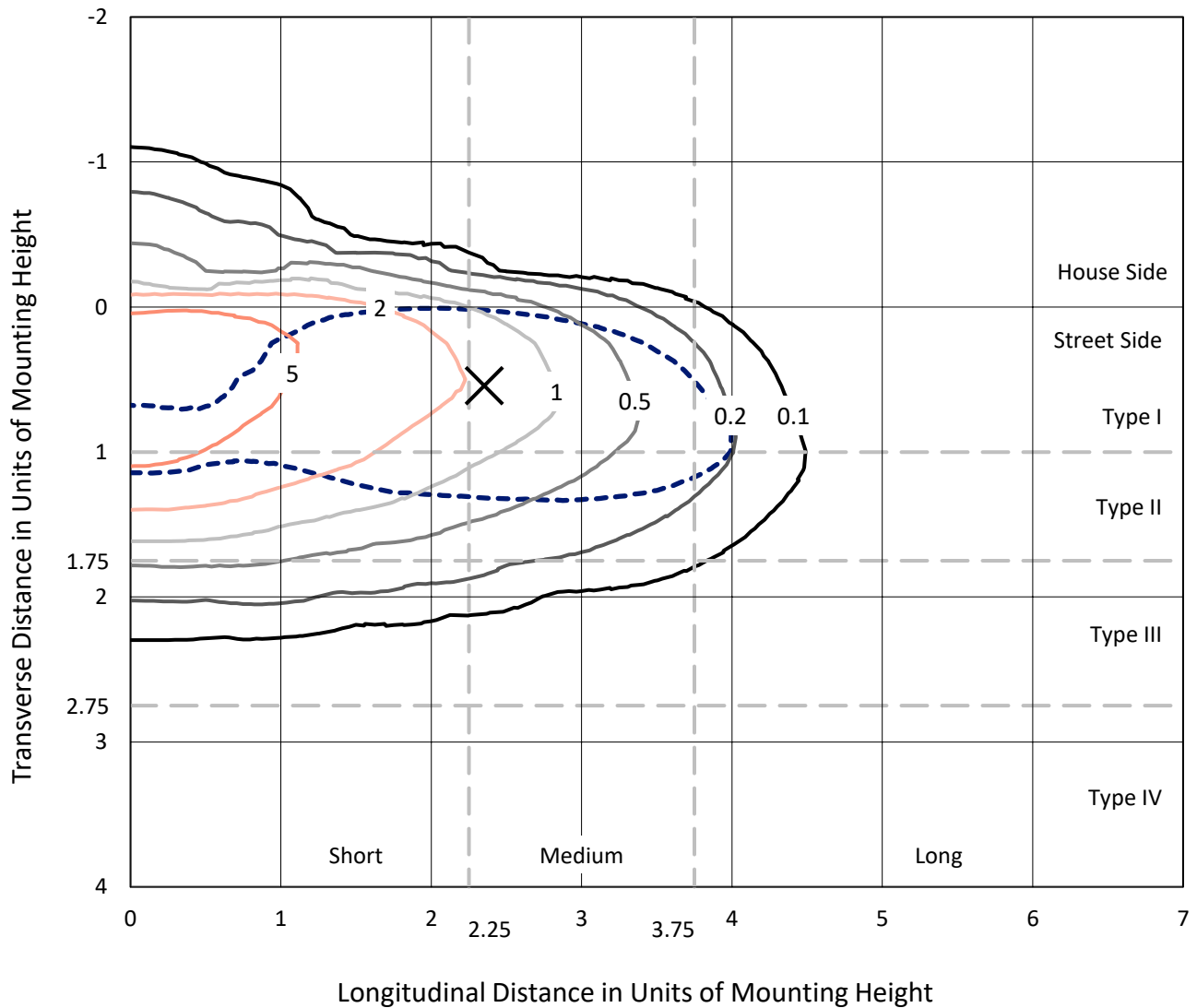
Lumens per Lamp: N/A  
Luminaire Lumens: 20805.4 lumens  
Efficiency: N/A  
Efficacy: 146.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): 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

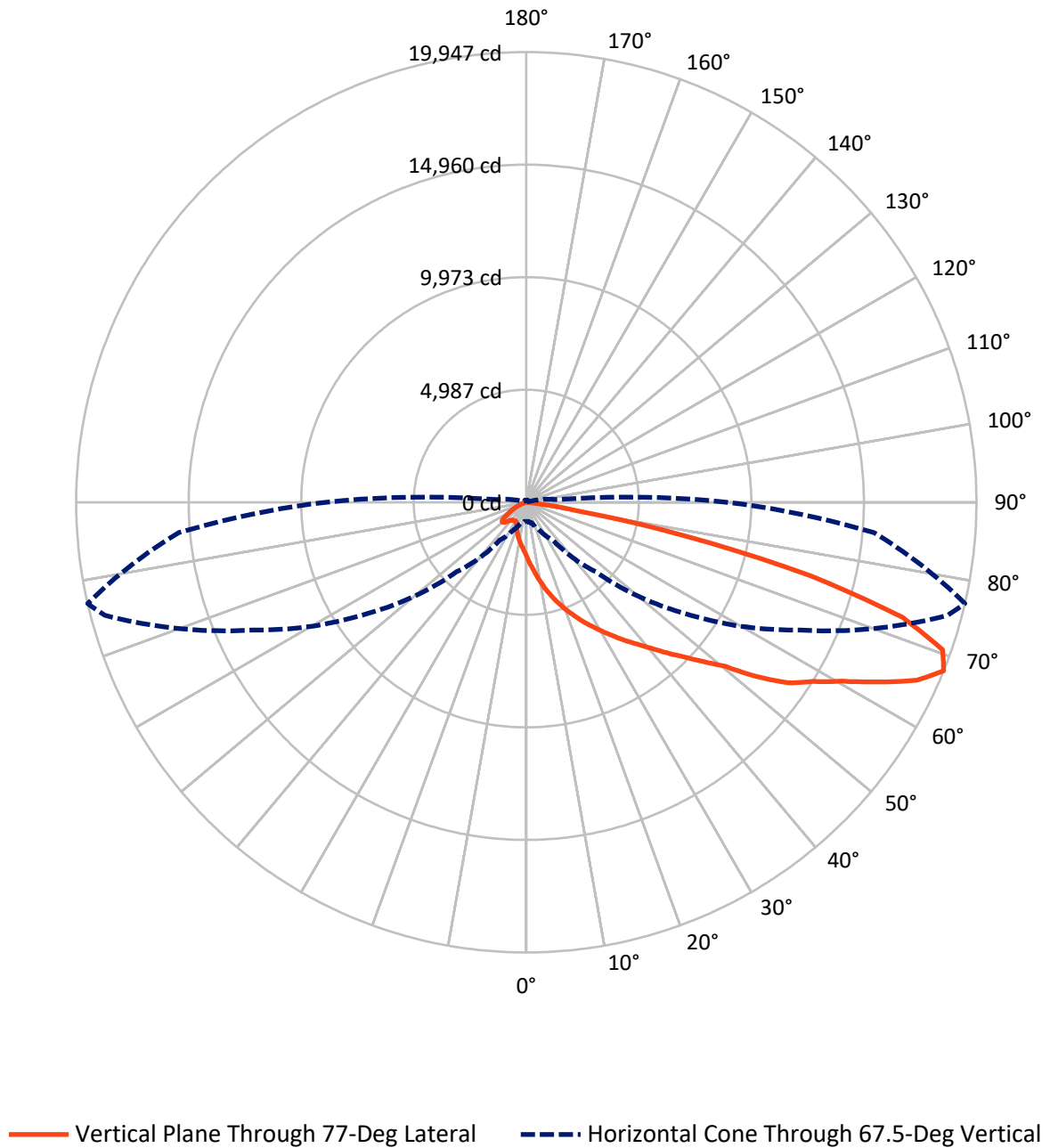
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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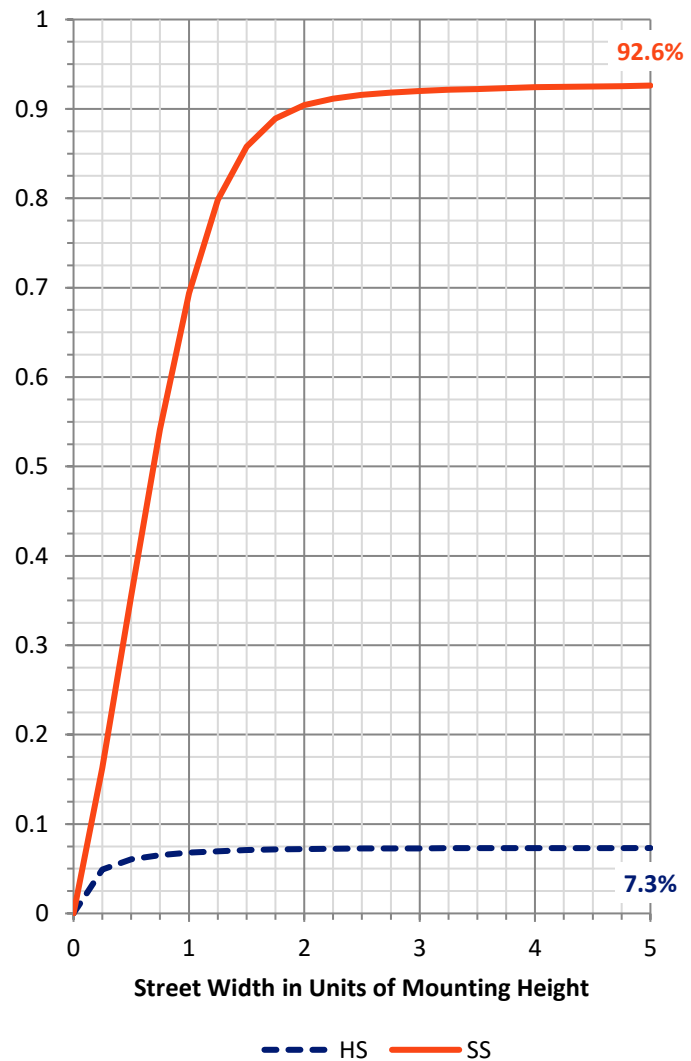
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1530.7   | 0.0    | 1530.7  |
|                    | % Fixture | 7.4      | 0.0    | 7.4     |
| <b>Street Side</b> | Lumens    | 19274.8  | 0.0    | 19274.8 |
|                    | % Fixture | 92.6     | 0.0    | 92.6    |
| <b>Total</b>       | Lumens    | 20805.4  | 0.0    | 20805.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 244.9   | 1.2       |
| 10°-20°   | 857.5   | 4.1       |
| 20°-30°   | 1654.8  | 8.0       |
| 30°-40°   | 2872.8  | 13.8      |
| 40°-50°   | 4171.2  | 20.0      |
| 50°-60°   | 4790.0  | 23.0      |
| 60°-70°   | 4158.6  | 20.0      |
| 70°-80°   | 1958.8  | 9.4       |
| 80°-90°   | 96.9    | 0.5       |
| 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°    | 20805.4 | 100.0     |
| 0°-180°   | 20805.4 | 100.0     |

**Coefficient of Utilization**



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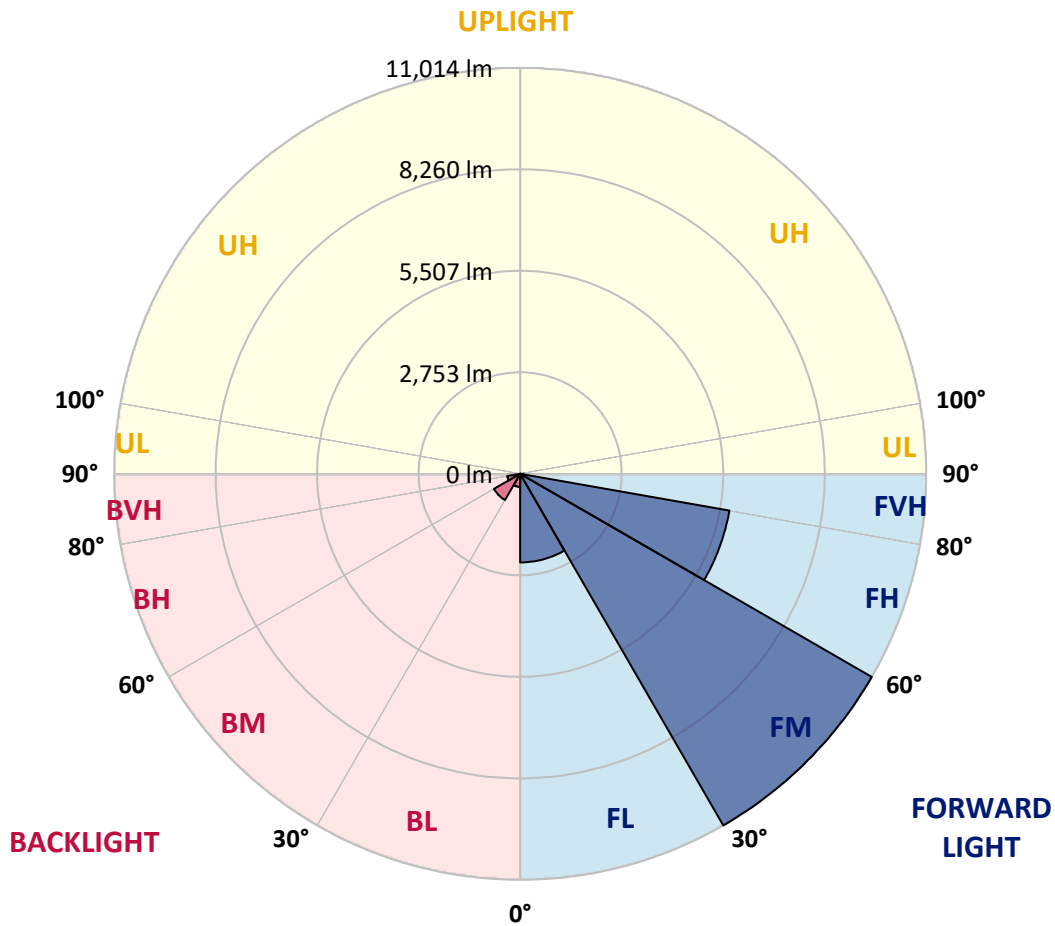
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2402.8  | 11.5      |                         |      |         |
| FM (30°-60°)   | 11013.8 | 52.9      |                         |      |         |
| FH (60°-80°)   | 5763.0  | 27.7      |                         |      | G3/7500 |
| FVH (80°-90°)  | 95.1    | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 354.4   | 1.7       | B1/500                  |      |         |
| BM (30°-60°)   | 820.2   | 3.9       | B1/1000                 |      |         |
| BH (60°-80°)   | 354.4   | 1.7       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.8     | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2399.2  | 2399.2  | 2399.2  | 2399.2  | 2399.2  | 2399.2  | 2399.2  | 2399.2  | 2399.2  | 2399.2  | 2399.2  |
| 2.5°  | 3321.6  | 3342.3  | 3312.6  | 3255.7  | 3170.4  | 3114.9  | 2979.3  | 2851.3  | 2709.3  | 2664.1  | 2521.9  |
| 5°    | 4049.1  | 4067.1  | 4033.5  | 3971.5  | 3857.8  | 3749.2  | 3571.0  | 3303.6  | 3025.8  | 2936.6  | 2684.7  |
| 7.5°  | 4587.8  | 4598.0  | 4585.1  | 4528.3  | 4419.8  | 4297.1  | 4098.2  | 3781.5  | 3369.5  | 3271.3  | 2885.0  |
| 10°   | 4975.3  | 5009.0  | 5005.1  | 4983.1  | 4910.8  | 4811.2  | 4599.4  | 4238.9  | 3754.5  | 3627.8  | 3111.1  |
| 12.5° | 5232.4  | 5269.9  | 5291.9  | 5341.0  | 5337.1  | 5273.8  | 5087.8  | 4706.6  | 4138.1  | 3989.6  | 3365.6  |
| 15°   | 5307.3  | 5347.4  | 5431.4  | 5545.1  | 5645.9  | 5678.2  | 5547.7  | 5165.3  | 4560.6  | 4370.7  | 3626.6  |
| 17.5° | 5264.7  | 5326.7  | 5427.6  | 5607.2  | 5828.0  | 5974.0  | 5959.9  | 5608.4  | 4944.3  | 4727.3  | 3882.4  |
| 20°   | 5359.1  | 5418.5  | 5497.3  | 5648.5  | 5905.5  | 6170.4  | 6276.4  | 6032.1  | 5325.5  | 5098.0  | 4151.0  |
| 22.5° | 5881.0  | 5870.7  | 5878.5  | 5903.0  | 6056.7  | 6319.0  | 6537.3  | 6417.2  | 5702.7  | 5470.2  | 4435.3  |
| 25°   | 6707.9  | 6661.4  | 6582.6  | 6449.5  | 6410.8  | 6537.3  | 6764.7  | 6758.2  | 6100.7  | 5851.3  | 4726.0  |
| 27.5° | 7656.1  | 7648.4  | 7463.6  | 7143.2  | 6962.4  | 6913.3  | 7021.9  | 7090.3  | 6494.7  | 6228.5  | 5018.0  |
| 30°   | 8564.4  | 8585.1  | 8335.7  | 7979.1  | 7647.1  | 7454.6  | 7356.4  | 7405.5  | 6895.2  | 6635.5  | 5319.0  |
| 32.5° | 9355.1  | 9377.1  | 9105.8  | 8688.4  | 8277.6  | 8045.0  | 7838.4  | 7716.9  | 7331.9  | 7048.9  | 5649.8  |
| 35°   | 10023.1 | 10045.0 | 9733.6  | 9272.5  | 8834.5  | 8623.8  | 8390.0  | 8057.9  | 7771.1  | 7507.6  | 6018.0  |
| 37.5° | 10619.9 | 10613.5 | 10196.2 | 9731.0  | 9300.8  | 9134.2  | 9011.4  | 8477.9  | 8223.4  | 7968.9  | 6426.2  |
| 40°   | 10972.6 | 10999.8 | 10643.2 | 10130.3 | 9713.0  | 9591.5  | 9583.8  | 8998.5  | 8745.3  | 8498.5  | 6873.2  |
| 42.5° | 11075.9 | 11123.8 | 10865.4 | 10444.2 | 10065.7 | 9933.9  | 10136.7 | 9561.8  | 9352.5  | 9112.2  | 7378.4  |
| 45°   | 10889.9 | 10936.4 | 10818.9 | 10527.0 | 10306.0 | 10220.7 | 10612.1 | 10145.8 | 10001.1 | 9763.3  | 7948.2  |
| 47.5° | 10347.4 | 10405.5 | 10433.9 | 10371.9 | 10369.3 | 10455.8 | 11038.5 | 10760.8 | 10771.1 | 10528.2 | 8608.4  |
| 50°   | 9297.0  | 9395.2  | 9656.1  | 9875.8  | 10215.6 | 10641.9 | 11453.2 | 11427.4 | 11639.3 | 11430.0 | 9468.7  |
| 52.5° | 7387.5  | 7527.0  | 8426.2  | 9027.0  | 9790.5  | 10607.0 | 11909.3 | 12497.1 | 13162.5 | 12856.3 | 10681.9 |
| 55°   | 5936.6  | 5936.6  | 6667.8  | 7791.8  | 8961.1  | 10377.0 | 12108.2 | 13192.3 | 14199.9 | 14127.6 | 11536.0 |
| 57.5° | 4839.6  | 4897.9  | 5364.2  | 6357.8  | 7760.8  | 9829.2  | 12231.0 | 13628.9 | 15035.8 | 14982.9 | 12370.5 |
| 60°   | 2987.1  | 3112.3  | 3993.5  | 4974.0  | 6395.2  | 8853.8  | 12153.5 | 14070.8 | 16050.1 | 16092.7 | 13375.7 |
| 62.5° | 1682.1  | 1728.7  | 2121.4  | 3578.7  | 4972.8  | 7542.5  | 11560.5 | 14317.5 | 17347.2 | 17528.0 | 14411.8 |
| 65°   | 1161.4  | 1184.7  | 1335.9  | 2227.3  | 3447.0  | 6005.1  | 10401.6 | 14163.8 | 18646.9 | 19012.5 | 15290.3 |
| 67.5° | 843.7   | 855.3   | 949.6   | 1360.5  | 2045.2  | 4353.9  | 8585.1  | 13388.7 | 19335.5 | 19946.6 | 15458.3 |
| 70°   | 648.5   | 656.3   | 724.8   | 894.0   | 1208.0  | 2687.2  | 6235.0  | 11847.3 | 18836.8 | 19566.7 | 14597.8 |
| 72.5° | 527.2   | 534.8   | 587.8   | 661.5   | 801.0   | 1589.2  | 3779.0  | 9621.3  | 16635.3 | 17423.4 | 12427.4 |
| 75°   | 444.4   | 454.8   | 502.6   | 550.4   | 627.9   | 1020.7  | 1772.5  | 6700.1  | 12510.0 | 13026.8 | 8642.0  |
| 77.5° | 246.7   | 227.3   | 408.3   | 456.0   | 529.7   | 646.0   | 829.4   | 3943.1  | 7006.3  | 7149.7  | 3834.5  |
| 80°   | 153.8   | 158.9   | 324.3   | 367.0   | 406.9   | 325.5   | 379.9   | 1518.0  | 2428.8  | 2307.5  | 742.9   |
| 82.5° | 9.0     | 20.7    | 249.4   | 264.9   | 279.1   | 139.5   | 143.4   | 515.5   | 585.3   | 537.4   | 131.8   |
| 85°   | 0.0     | 0.0     | 113.7   | 91.7    | 96.9    | 40.1    | 41.3    | 120.1   | 78.8    | 85.3    | 25.8    |
| 87.5° | 0.0     | 0.0     | 0.0     | 2.6     | 0.0     | 3.9     | 7.8     | 10.4    | 3.9     | 5.1     | 9.0     |
| 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°    | 2399.2 | 2399.2 | 2399.2 | 2399.2 | 2399.2 | 2399.2 | 2399.2 | 2399.2 | 2399.2 | 2399.2 | 2399.2 |
| 2.5°  | 2431.5 | 2341.0 | 2157.6 | 1978.0 | 1832.0 | 1696.4 | 1599.4 | 1507.7 | 1461.2 | 1458.6 | 1456.0 |
| 5°    | 2505.1 | 2315.2 | 1948.3 | 1624.0 | 1363.0 | 1153.7 | 1018.0 | 921.2  | 872.1  | 855.3  | 852.7  |
| 7.5°  | 2608.5 | 2323.0 | 1764.8 | 1313.9 | 1006.4 | 826.9  | 749.4  | 718.3  | 708.0  | 696.4  | 693.8  |
| 10°   | 2739.0 | 2341.0 | 1600.7 | 1058.1 | 793.2  | 702.8  | 671.8  | 658.9  | 651.2  | 643.4  | 640.8  |
| 12.5° | 2885.0 | 2357.8 | 1438.0 | 878.5  | 697.6  | 651.2  | 629.1  | 613.7  | 603.3  | 594.3  | 591.7  |
| 15°   | 3027.0 | 2368.2 | 1268.7 | 753.2  | 648.5  | 611.1  | 587.8  | 571.0  | 556.9  | 546.5  | 545.2  |
| 17.5° | 3167.9 | 2382.4 | 1109.8 | 678.2  | 608.5  | 571.0  | 547.8  | 527.2  | 515.5  | 503.9  | 502.6  |
| 20°   | 3324.2 | 2379.8 | 959.9  | 625.4  | 568.5  | 530.9  | 506.5  | 487.1  | 475.4  | 462.5  | 461.2  |
| 22.5° | 3468.9 | 2366.8 | 828.1  | 580.0  | 527.2  | 491.0  | 463.8  | 444.4  | 432.9  | 422.5  | 421.2  |
| 25°   | 3635.6 | 2356.6 | 718.3  | 538.7  | 488.4  | 452.2  | 422.5  | 404.4  | 391.4  | 382.4  | 381.1  |
| 27.5° | 3795.8 | 2341.0 | 638.3  | 501.3  | 450.9  | 416.0  | 387.6  | 367.0  | 355.3  | 348.8  | 348.8  |
| 30°   | 3953.4 | 2337.2 | 608.5  | 465.1  | 417.3  | 382.4  | 354.0  | 334.7  | 325.5  | 323.0  | 321.7  |
| 32.5° | 4143.4 | 2347.5 | 621.5  | 452.2  | 386.3  | 351.4  | 324.3  | 310.1  | 301.0  | 301.0  | 301.0  |
| 35°   | 4346.2 | 2344.9 | 640.8  | 463.8  | 365.6  | 320.4  | 299.7  | 290.7  | 281.7  | 281.7  | 281.7  |
| 37.5° | 4600.7 | 2348.8 | 656.3  | 483.2  | 357.8  | 294.6  | 282.9  | 271.3  | 266.2  | 266.2  | 266.2  |
| 40°   | 4980.5 | 2476.7 | 648.5  | 500.0  | 355.3  | 276.4  | 253.2  | 249.4  | 245.5  | 245.5  | 245.5  |
| 42.5° | 5445.6 | 2754.5 | 658.9  | 501.3  | 354.0  | 263.5  | 232.6  | 240.3  | 231.2  | 230.0  | 228.7  |
| 45°   | 5954.6 | 3058.1 | 724.8  | 474.2  | 352.7  | 257.1  | 222.2  | 231.2  | 217.1  | 217.1  | 217.1  |
| 47.5° | 6459.9 | 3359.1 | 792.0  | 435.4  | 348.8  | 255.8  | 213.2  | 208.0  | 204.2  | 205.4  | 205.4  |
| 50°   | 7156.1 | 3604.6 | 817.8  | 382.4  | 339.8  | 253.2  | 196.4  | 197.6  | 195.1  | 197.6  | 197.6  |
| 52.5° | 7914.5 | 3656.3 | 786.8  | 323.0  | 314.0  | 245.5  | 184.7  | 189.9  | 188.6  | 191.2  | 191.2  |
| 55°   | 8387.4 | 3600.7 | 649.8  | 268.8  | 273.9  | 214.4  | 173.1  | 183.5  | 183.5  | 183.5  | 183.5  |
| 57.5° | 8875.8 | 3364.3 | 461.2  | 218.3  | 227.3  | 175.7  | 162.8  | 177.0  | 175.7  | 174.5  | 174.5  |
| 60°   | 9227.2 | 2981.8 | 303.6  | 179.6  | 180.9  | 144.7  | 151.2  | 166.7  | 165.3  | 158.9  | 158.9  |
| 62.5° | 9489.4 | 2559.4 | 195.1  | 152.4  | 138.3  | 130.5  | 138.3  | 151.2  | 146.0  | 131.8  | 129.1  |
| 65°   | 9459.7 | 1974.2 | 149.9  | 130.5  | 113.7  | 113.7  | 120.1  | 131.8  | 116.2  | 93.1   | 90.4   |
| 67.5° | 8908.1 | 1335.9 | 124.0  | 109.8  | 95.6   | 94.3   | 99.5   | 109.8  | 99.5   | 78.8   | 76.3   |
| 70°   | 7922.3 | 873.4  | 99.5   | 85.3   | 76.3   | 69.8   | 80.1   | 94.3   | 83.9   | 63.3   | 60.7   |
| 72.5° | 6430.1 | 532.3  | 74.9   | 62.0   | 55.6   | 45.2   | 63.3   | 77.5   | 67.1   | 46.5   | 44.0   |
| 75°   | 4160.2 | 271.3  | 51.7   | 40.1   | 29.7   | 27.2   | 46.5   | 58.1   | 46.5   | 28.4   | 24.5   |
| 77.5° | 1591.7 | 113.7  | 28.4   | 18.0   | 15.5   | 12.9   | 25.8   | 34.8   | 19.4   | 6.5    | 5.1    |
| 80°   | 306.2  | 47.8   | 14.2   | 9.0    | 7.8    | 5.1    | 3.9    | 2.6    | 0.0    | 0.0    | 0.0    |
| 82.5° | 53.0   | 15.5   | 5.1    | 2.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 18.0   | 2.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 6.5    | 0.0    | 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)