

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: P964667

Luminaire Tested: **NVN-SB3C-760-U-T3R-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P964667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB3C-760-U-T3R-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 20286.8 lumens  
Efficiency: N/A  
Efficacy: 136.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 149.1  
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

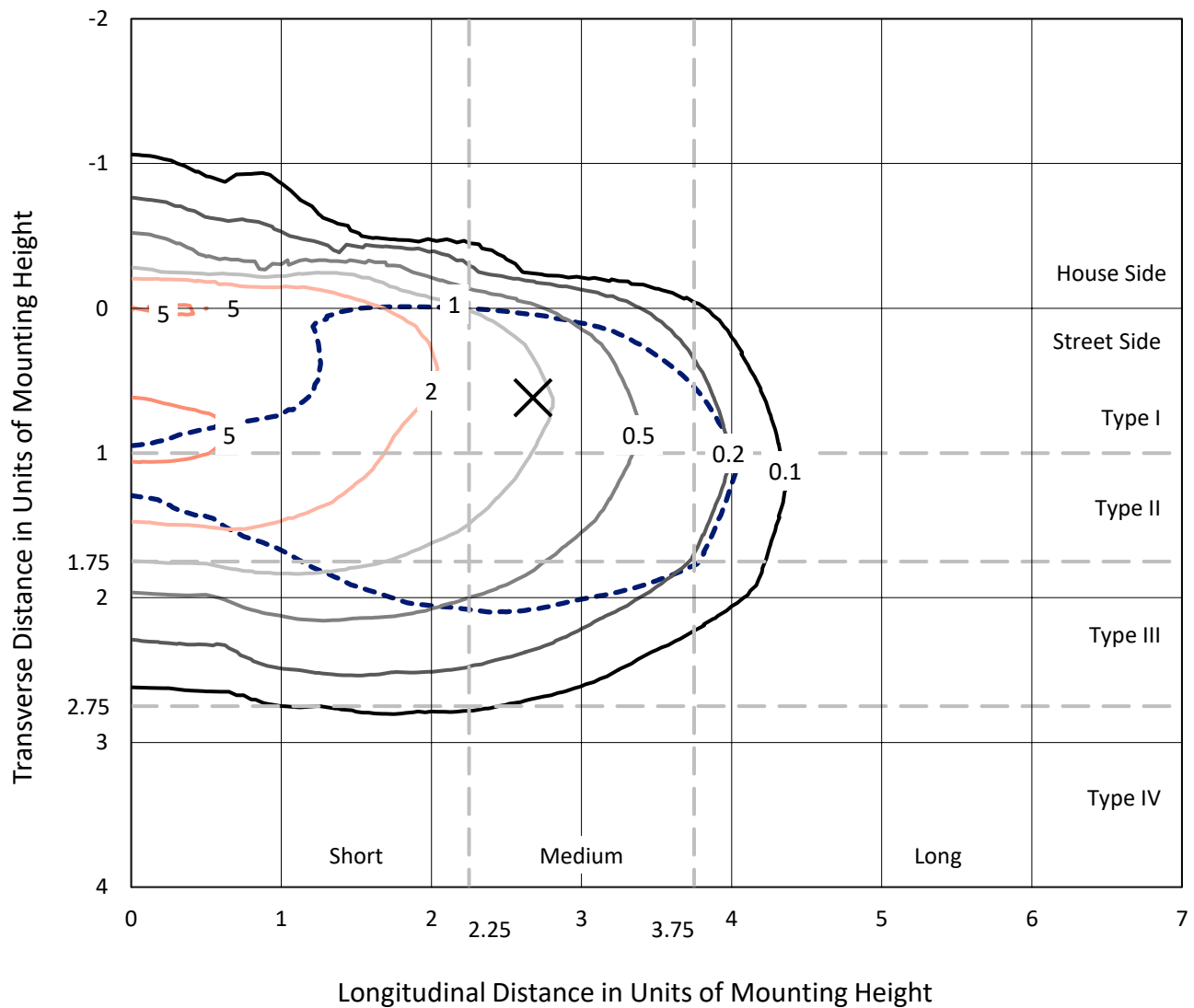


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## Iso-Footcandle Lines of Horizontal Illumination

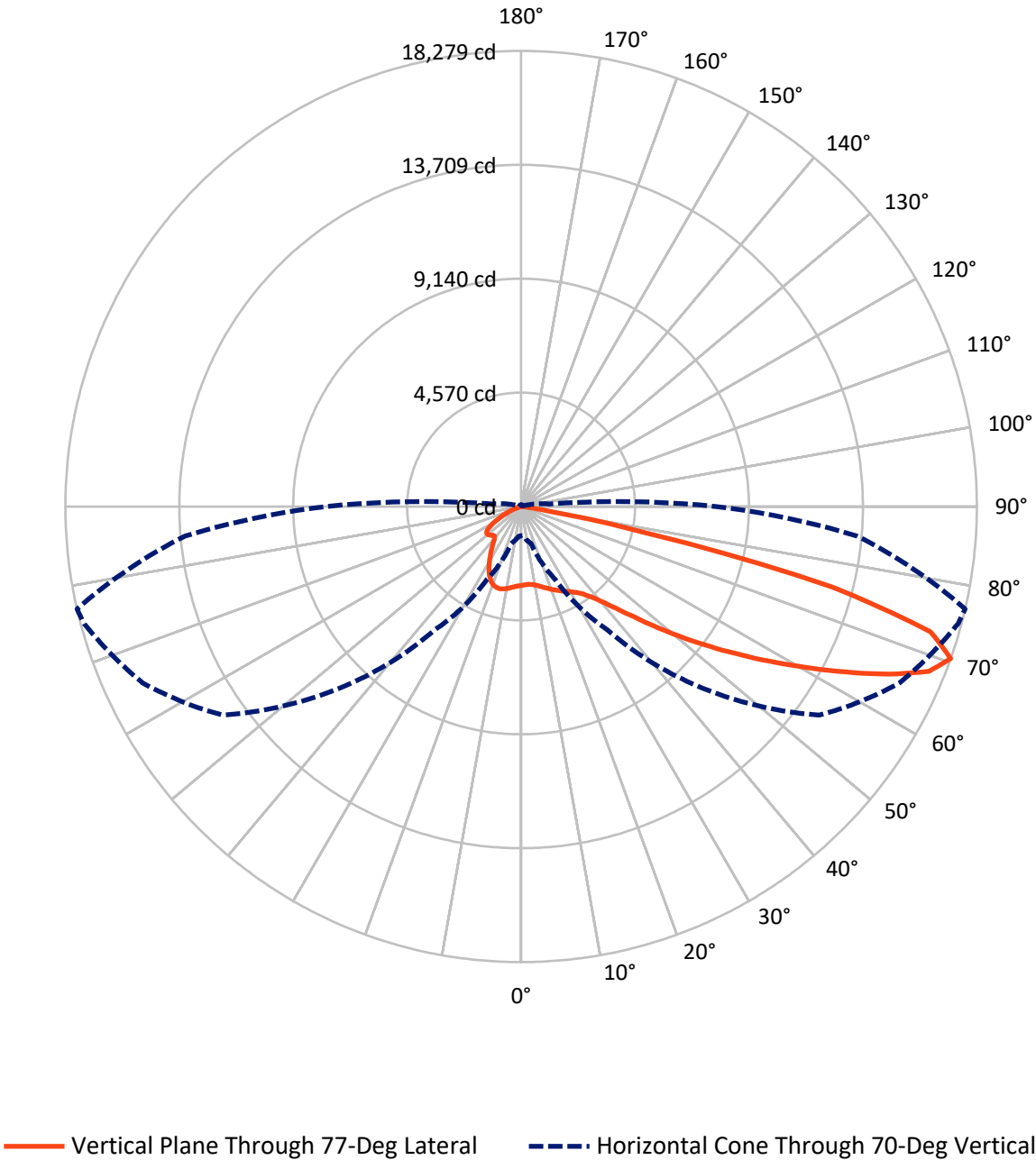
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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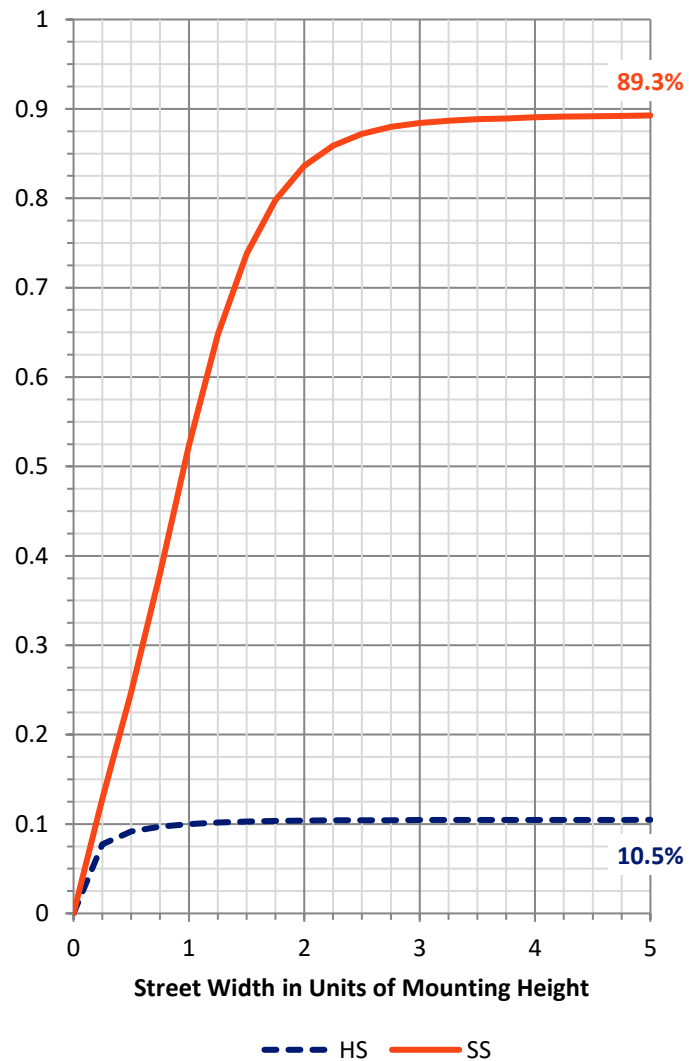
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2138.5   | 0.0    | 2138.5  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 18148.3  | 0.0    | 18148.3 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 20286.8  | 0.0    | 20286.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 272.7   | 1.3       |
| 10°-20°   | 647.4   | 3.2       |
| 20°-30°   | 1001.4  | 4.9       |
| 30°-40°   | 1817.0  | 9.0       |
| 40°-50°   | 3429.8  | 16.9      |
| 50°-60°   | 4955.8  | 24.4      |
| 60°-70°   | 5275.3  | 26.0      |
| 70°-80°   | 2795.5  | 13.8      |
| 80°-90°   | 91.8    | 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°    | 20286.8 | 100.0     |
| 0°-180°   | 20286.8 | 100.0     |

**Coefficient of Utilization**



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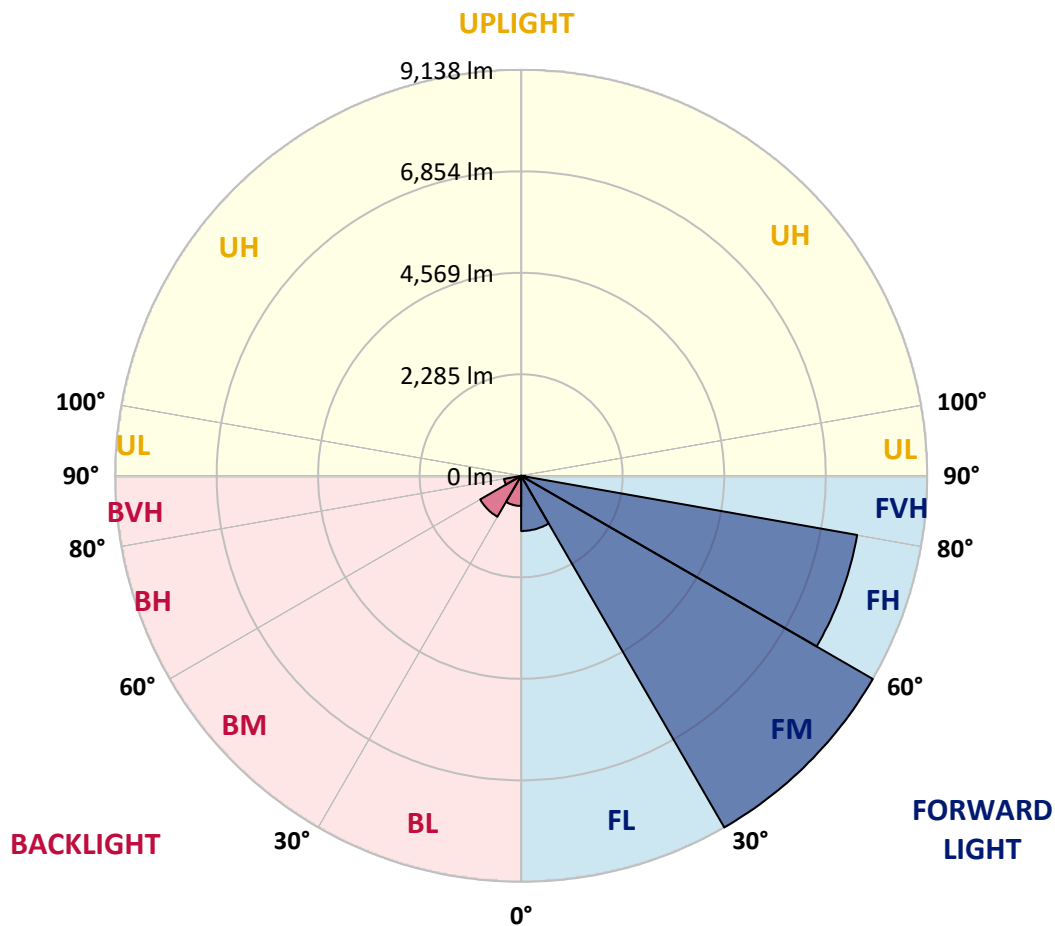
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1242.0 | 6.1       |                         |      |          |
| FM   | (30°-60°)   | 9138.1 | 45.0      |                         |      |          |
| FH   | (60°-80°)   | 7678.8 | 37.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 89.3   | 0.4       |                         |      | G1/100   |
| BL   | (0°-30°)    | 679.4  | 3.3       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1064.6 | 5.2       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 392.0  | 1.9       | 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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     | 85°     |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3164.4 | 3164.4  | 3164.4  | 3164.4  | 3164.4  | 3164.4  | 3164.4  | 3164.4  | 3164.4  | 3164.4  | 3164.4  |
| 2.5°  | 2971.0 | 2997.8  | 2994.0  | 3012.0  | 3018.3  | 3043.9  | 3069.6  | 3104.2  | 3142.5  | 3141.3  | 3166.9  |
| 5°    | 2803.1 | 2830.0  | 2836.4  | 2860.8  | 2891.5  | 2931.2  | 2983.8  | 3053.0  | 3124.6  | 3136.2  | 3187.4  |
| 7.5°  | 2604.5 | 2632.7  | 2649.3  | 2698.0  | 2754.4  | 2836.4  | 2922.3  | 3023.4  | 3142.5  | 3159.3  | 3257.9  |
| 10°   | 2406.0 | 2431.6  | 2453.3  | 2522.5  | 2612.2  | 2733.9  | 2873.6  | 3019.6  | 3179.8  | 3204.0  | 3343.8  |
| 12.5° | 2283.0 | 2307.3  | 2331.7  | 2391.8  | 2503.4  | 2651.9  | 2841.5  | 3037.6  | 3241.3  | 3275.8  | 3460.3  |
| 15°   | 2239.4 | 2261.1  | 2280.4  | 2334.2  | 2438.0  | 2607.1  | 2835.1  | 3074.7  | 3319.4  | 3365.5  | 3601.2  |
| 17.5° | 2245.8 | 2257.4  | 2270.2  | 2311.2  | 2412.3  | 2586.6  | 2846.6  | 3138.8  | 3411.6  | 3452.6  | 3742.2  |
| 20°   | 2283.0 | 2289.3  | 2290.7  | 2318.9  | 2408.5  | 2584.0  | 2869.7  | 3200.3  | 3498.7  | 3553.9  | 3881.8  |
| 22.5° | 2330.3 | 2332.9  | 2330.3  | 2349.6  | 2432.8  | 2603.2  | 2900.4  | 3274.6  | 3596.1  | 3647.4  | 4022.7  |
| 25°   | 2552.0 | 2503.4  | 2441.9  | 2404.6  | 2473.8  | 2640.4  | 2946.6  | 3374.5  | 3702.4  | 3752.4  | 4159.8  |
| 27.5° | 3239.9 | 3100.3  | 2879.9  | 2632.7  | 2558.4  | 2694.2  | 3010.6  | 3475.7  | 3810.0  | 3854.9  | 4307.2  |
| 30°   | 4357.1 | 4173.9  | 3799.8  | 3242.5  | 2830.0  | 2807.0  | 3094.0  | 3576.9  | 3924.1  | 3972.8  | 4464.7  |
| 32.5° | 5476.8 | 5432.0  | 5000.3  | 4228.9  | 3441.1  | 3058.1  | 3232.2  | 3714.0  | 4075.3  | 4113.7  | 4677.4  |
| 35°   | 6609.3 | 6518.4  | 6164.8  | 5402.5  | 4382.7  | 3569.3  | 3462.9  | 3893.4  | 4273.8  | 4317.4  | 4987.4  |
| 37.5° | 7476.7 | 7421.5  | 7202.5  | 6574.8  | 5499.8  | 4358.4  | 3857.5  | 4171.3  | 4562.1  | 4610.8  | 5384.5  |
| 40°   | 8242.7 | 8217.1  | 8142.8  | 7729.0  | 6748.9  | 5391.0  | 4471.2  | 4601.8  | 4961.8  | 5019.4  | 5871.4  |
| 42.5° | 8844.8 | 8905.1  | 8947.3  | 8832.0  | 8036.5  | 6569.6  | 5296.2  | 5206.5  | 5519.1  | 5578.0  | 6491.4  |
| 45°   | 9461.1 | 9481.6  | 9652.0  | 9818.6  | 9315.1  | 7802.0  | 6226.3  | 5915.0  | 6212.2  | 6285.2  | 7234.6  |
| 47.5° | 9856.9 | 9938.9  | 10238.7 | 10532.1 | 10389.9 | 9024.2  | 7225.5  | 6751.5  | 7015.4  | 7152.6  | 8067.3  |
| 50°   | 9886.4 | 10041.4 | 10454.0 | 10965.1 | 11172.7 | 10187.5 | 8311.9  | 7704.7  | 7985.3  | 8136.4  | 8956.3  |
| 52.5° | 9395.8 | 9636.6  | 10275.9 | 11024.1 | 11595.4 | 11172.7 | 9435.4  | 8657.9  | 9017.8  | 9215.2  | 9878.7  |
| 55°   | 7203.8 | 7518.9  | 9605.9  | 10703.8 | 11612.1 | 11919.5 | 10529.5 | 9650.7  | 10168.3 | 10391.1 | 10875.5 |
| 57.5° | 6276.2 | 6435.1  | 7552.2  | 10147.8 | 11303.4 | 12220.7 | 11518.5 | 10596.1 | 11419.9 | 11696.7 | 11817.1 |
| 60°   | 5221.9 | 5430.7  | 6333.9  | 9238.2  | 10884.4 | 12250.1 | 12392.4 | 11815.8 | 12776.6 | 13087.9 | 12680.6 |
| 62.5° | 3548.8 | 3775.5  | 4673.5  | 7675.2  | 10311.8 | 12236.0 | 13108.4 | 13071.3 | 14284.5 | 14618.9 | 13412.1 |
| 65°   | 2198.4 | 2340.6  | 2932.5  | 6267.3  | 9511.1  | 12251.4 | 13857.9 | 14595.8 | 15875.7 | 16215.2 | 13978.3 |
| 67.5° | 1737.2 | 1802.6  | 2111.3  | 4811.9  | 8131.3  | 11905.5 | 14606.0 | 16029.5 | 17373.3 | 17642.3 | 14151.3 |
| 70°   | 1167.1 | 1206.8  | 1536.1  | 3225.9  | 6049.4  | 10309.2 | 14592.0 | 16749.4 | 18144.6 | 18279.0 | 13521.0 |
| 72.5° | 614.9  | 645.6   | 898.1   | 1493.8  | 3653.7  | 7328.0  | 12300.1 | 15888.5 | 17377.1 | 17174.7 | 11557.0 |
| 75°   | 307.5  | 358.7   | 604.6   | 758.4   | 1560.4  | 4086.8  | 7638.1  | 12526.8 | 13677.3 | 12893.3 | 7415.2  |
| 77.5° | 233.2  | 281.9   | 499.7   | 499.7   | 543.1   | 1376.0  | 3234.8  | 6832.2  | 6301.8  | 5247.5  | 2176.6  |
| 80°   | 148.6  | 192.2   | 436.9   | 377.9   | 226.7   | 349.7   | 843.0   | 1914.0  | 1338.8  | 1018.5  | 395.9   |
| 82.5° | 87.1   | 125.6   | 363.9   | 249.8   | 126.8   | 129.4   | 238.3   | 407.4   | 347.2   | 270.3   | 121.7   |
| 85°   | 34.5   | 82.0    | 249.8   | 98.6    | 49.9    | 32.0    | 71.8    | 87.1    | 71.8    | 53.8    | 30.7    |
| 87.5° | 0.0    | 19.2    | 43.6    | 0.0     | 3.8     | 2.6     | 5.1     | 6.4     | 6.4     | 5.1     | 10.2    |
| 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°    | 3164.4 | 3164.4 | 3164.4 | 3164.4 | 3164.4 | 3164.4 | 3164.4 | 3164.4 | 3164.4 | 3164.4 | 3164.4 |
| 2.5°  | 3178.4 | 3181.0 | 3188.7 | 3190.0 | 3172.1 | 3149.0 | 3140.0 | 3136.2 | 3120.8 | 3119.5 | 3122.0 |
| 5°    | 3216.9 | 3228.4 | 3216.9 | 3183.5 | 3104.2 | 2992.7 | 2908.1 | 2838.9 | 2776.2 | 2756.9 | 2745.5 |
| 7.5°  | 3293.7 | 3305.3 | 3270.7 | 3140.0 | 2940.2 | 2718.5 | 2518.7 | 2377.8 | 2250.9 | 2203.5 | 2184.3 |
| 10°   | 3403.9 | 3419.3 | 3310.4 | 3046.5 | 2692.9 | 2336.8 | 1998.5 | 1760.2 | 1574.5 | 1499.0 | 1466.9 |
| 12.5° | 3542.3 | 3548.8 | 3332.2 | 2904.3 | 2371.3 | 1862.7 | 1383.6 | 1128.6 | 963.4  | 901.9  | 882.7  |
| 15°   | 3694.7 | 3685.8 | 3334.7 | 2710.8 | 1933.3 | 1317.0 | 903.2  | 741.8  | 675.2  | 654.7  | 654.7  |
| 17.5° | 3854.9 | 3817.7 | 3283.5 | 2431.6 | 1452.8 | 900.7  | 670.0  | 631.6  | 620.0  | 614.9  | 613.7  |
| 20°   | 4012.5 | 3929.2 | 3190.0 | 2066.5 | 1042.8 | 672.6  | 608.5  | 597.0  | 590.6  | 588.0  | 585.5  |
| 22.5° | 4156.0 | 4013.8 | 3029.9 | 1642.4 | 757.2  | 594.4  | 575.2  | 565.0  | 553.4  | 548.3  | 547.0  |
| 25°   | 4295.6 | 4062.5 | 2804.4 | 1246.5 | 606.0  | 556.0  | 540.6  | 521.4  | 506.0  | 499.7  | 497.1  |
| 27.5° | 4431.4 | 4093.2 | 2522.5 | 922.4  | 540.6  | 520.1  | 492.0  | 465.0  | 453.6  | 451.0  | 448.4  |
| 30°   | 4576.2 | 4103.5 | 2202.2 | 688.0  | 500.9  | 475.3  | 434.3  | 403.5  | 397.2  | 398.4  | 398.4  |
| 32.5° | 4752.9 | 4118.9 | 1879.4 | 563.6  | 467.6  | 421.5  | 372.8  | 340.8  | 335.7  | 340.8  | 339.5  |
| 35°   | 4964.4 | 4149.5 | 1568.0 | 518.9  | 438.2  | 366.4  | 313.9  | 287.0  | 281.9  | 285.7  | 284.4  |
| 37.5° | 5251.3 | 4199.5 | 1277.3 | 509.9  | 413.8  | 320.3  | 263.9  | 242.1  | 242.1  | 243.4  | 242.1  |
| 40°   | 5633.1 | 4332.8 | 1017.2 | 503.5  | 401.0  | 285.7  | 222.9  | 213.9  | 217.8  | 220.4  | 220.4  |
| 42.5° | 6098.1 | 4615.9 | 841.7  | 495.8  | 386.9  | 270.3  | 202.4  | 198.5  | 205.0  | 207.6  | 207.6  |
| 45°   | 6619.6 | 4974.6 | 780.2  | 483.0  | 374.1  | 280.5  | 193.4  | 188.3  | 196.0  | 197.3  | 198.5  |
| 47.5° | 7158.9 | 5325.6 | 772.5  | 468.9  | 361.3  | 295.9  | 190.9  | 179.4  | 188.3  | 189.6  | 190.9  |
| 50°   | 7704.7 | 5555.0 | 780.2  | 447.1  | 340.8  | 295.9  | 192.2  | 170.4  | 178.0  | 181.9  | 183.2  |
| 52.5° | 8254.3 | 5660.0 | 775.1  | 399.7  | 304.9  | 278.0  | 192.2  | 162.7  | 170.4  | 172.9  | 172.9  |
| 55°   | 8787.2 | 5639.5 | 696.9  | 329.2  | 258.8  | 246.0  | 187.1  | 156.3  | 161.4  | 162.7  | 162.7  |
| 57.5° | 9208.7 | 5353.8 | 552.2  | 256.2  | 210.1  | 205.0  | 170.4  | 148.6  | 152.4  | 151.2  | 151.2  |
| 60°   | 9429.1 | 4726.1 | 394.6  | 197.3  | 165.2  | 161.4  | 149.9  | 138.4  | 140.9  | 134.5  | 133.2  |
| 62.5° | 9431.6 | 3895.9 | 263.9  | 156.3  | 131.9  | 128.1  | 128.1  | 124.2  | 121.7  | 108.9  | 105.1  |
| 65°   | 9230.5 | 2974.8 | 175.5  | 124.2  | 106.3  | 99.9   | 107.6  | 106.3  | 97.4   | 79.4   | 76.9   |
| 67.5° | 8774.4 | 1949.9 | 133.2  | 97.4   | 82.0   | 78.1   | 85.8   | 89.7   | 83.2   | 66.6   | 65.3   |
| 70°   | 7836.6 | 1135.1 | 110.2  | 75.5   | 61.5   | 57.6   | 69.2   | 76.9   | 69.2   | 53.8   | 51.2   |
| 72.5° | 6509.4 | 612.3  | 89.7   | 56.4   | 42.2   | 38.4   | 55.0   | 62.7   | 55.0   | 39.7   | 38.4   |
| 75°   | 4223.8 | 328.0  | 69.2   | 37.1   | 21.7   | 24.3   | 41.0   | 46.1   | 38.4   | 25.6   | 23.1   |
| 77.5° | 1418.2 | 144.7  | 43.6   | 17.9   | 10.2   | 10.2   | 24.3   | 28.2   | 17.9   | 8.9    | 7.7    |
| 80°   | 316.4  | 60.2   | 17.9   | 7.7    | 3.8    | 3.8    | 5.1    | 5.1    | 2.6    | 0.0    | 0.0    |
| 82.5° | 103.7  | 24.3   | 7.7    | 2.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 39.7   | 8.9    | 2.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 15.4   | 1.2    | 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)