

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: P967298

Luminaire Tested: **NVN-SB4D-760-U-T2U-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P967298  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB4D-760-U-T2U-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 33799.4 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 293.6  
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

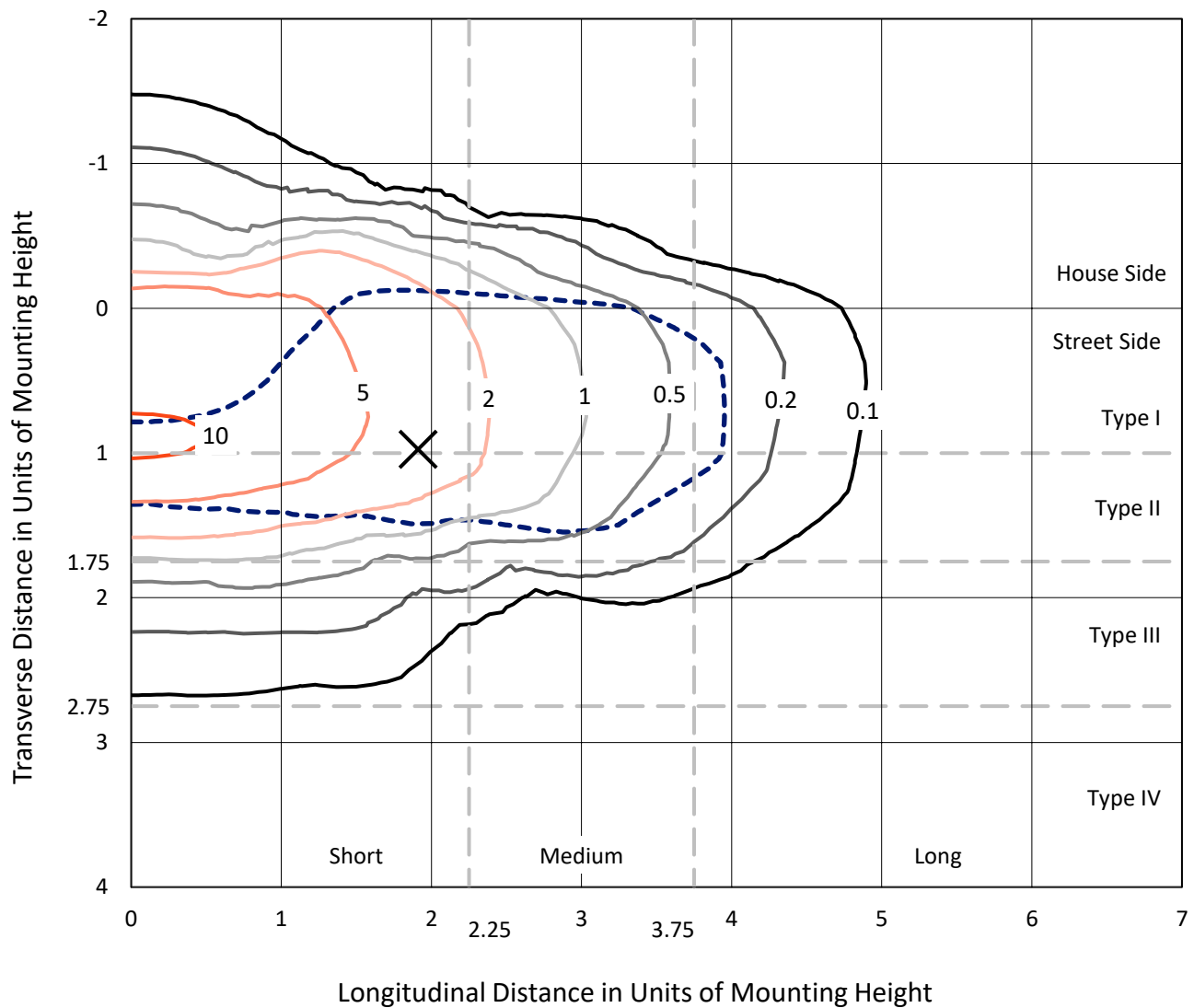


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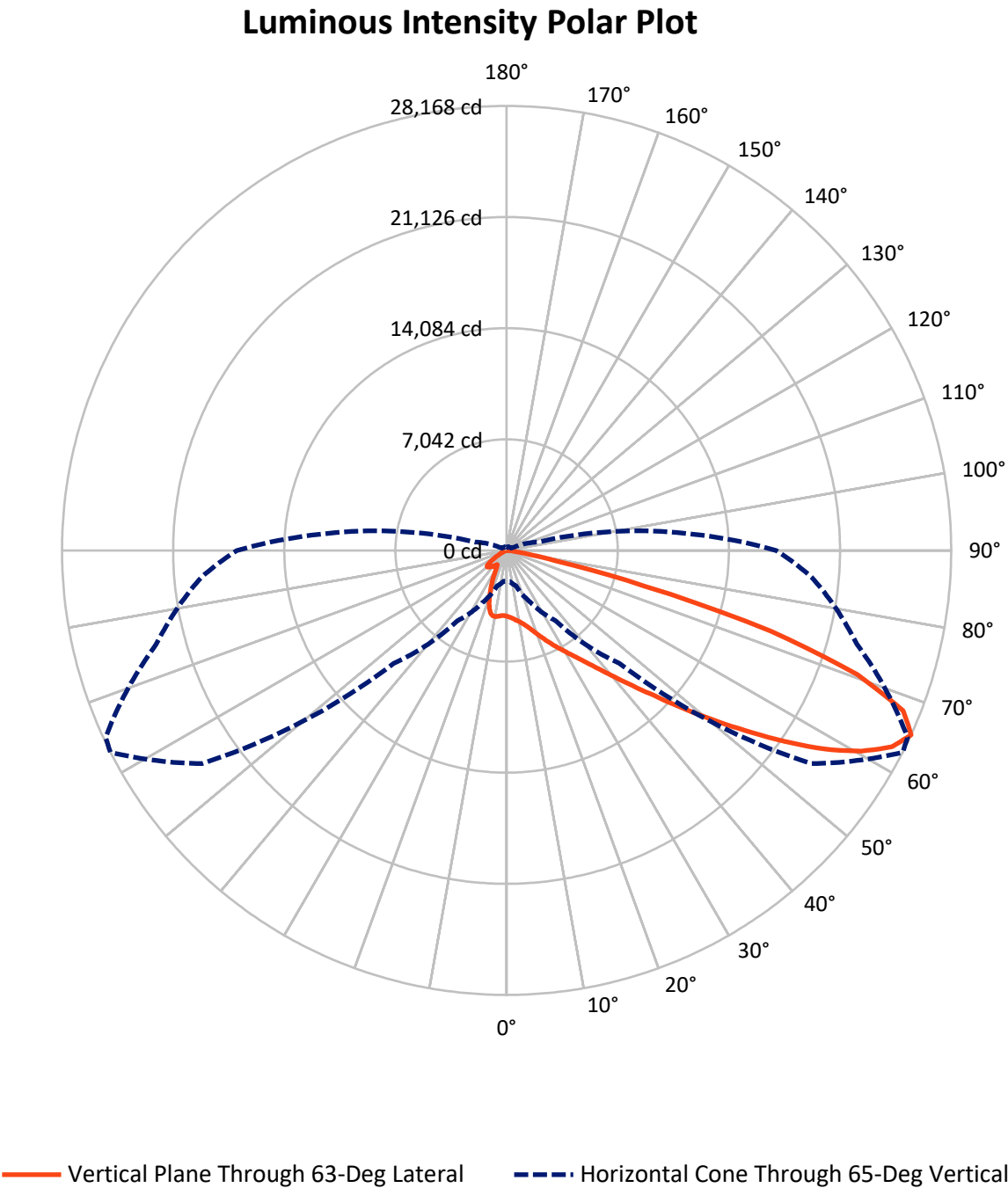
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
Type II - Short - N/A

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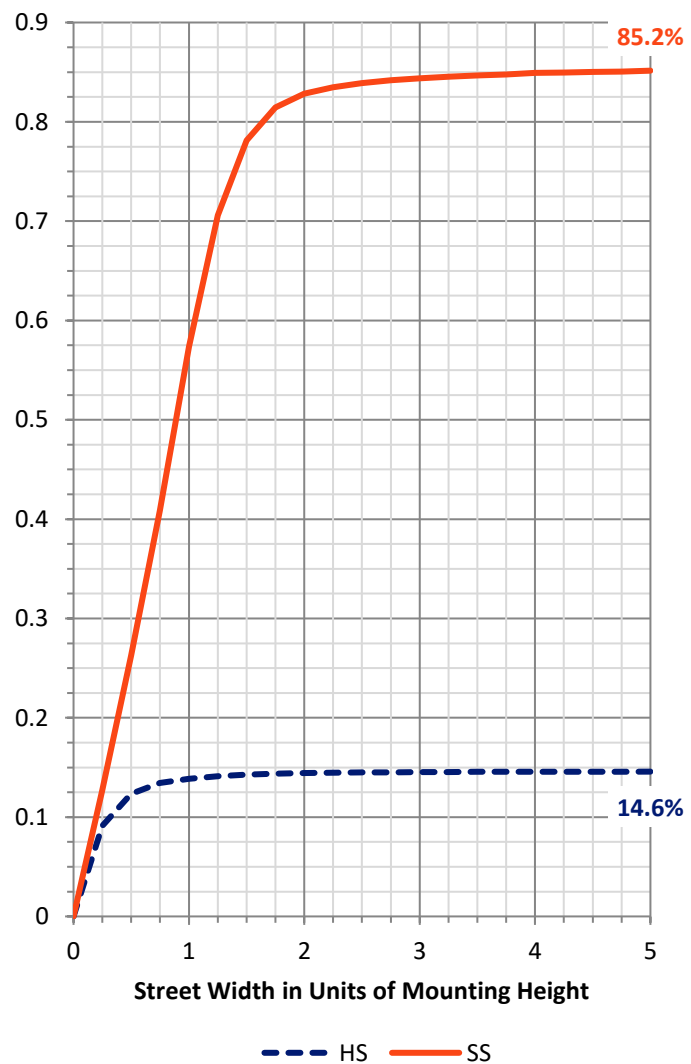
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4968.2   | 0.0    | 4968.2  |
|                    | % Fixture | 14.7     | 0.0    | 14.7    |
| <b>Street Side</b> | Lumens    | 28831.1  | 0.0    | 28831.1 |
|                    | % Fixture | 85.3     | 0.0    | 85.3    |
| <b>Total</b>       | Lumens    | 33799.4  | 0.0    | 33799.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 393.0   | 1.2       |
| 10°-20°   | 1090.5  | 3.2       |
| 20°-30°   | 1898.9  | 5.6       |
| 30°-40°   | 3422.5  | 10.1      |
| 40°-50°   | 6787.9  | 20.1      |
| 50°-60°   | 9246.3  | 27.4      |
| 60°-70°   | 7380.3  | 21.8      |
| 70°-80°   | 3339.8  | 9.9       |
| 80°-90°   | 240.1   | 0.7       |
| 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°    | 33799.4 | 100.0     |
| 0°-180°   | 33799.4 | 100.0     |

**Coefficient of Utilization**



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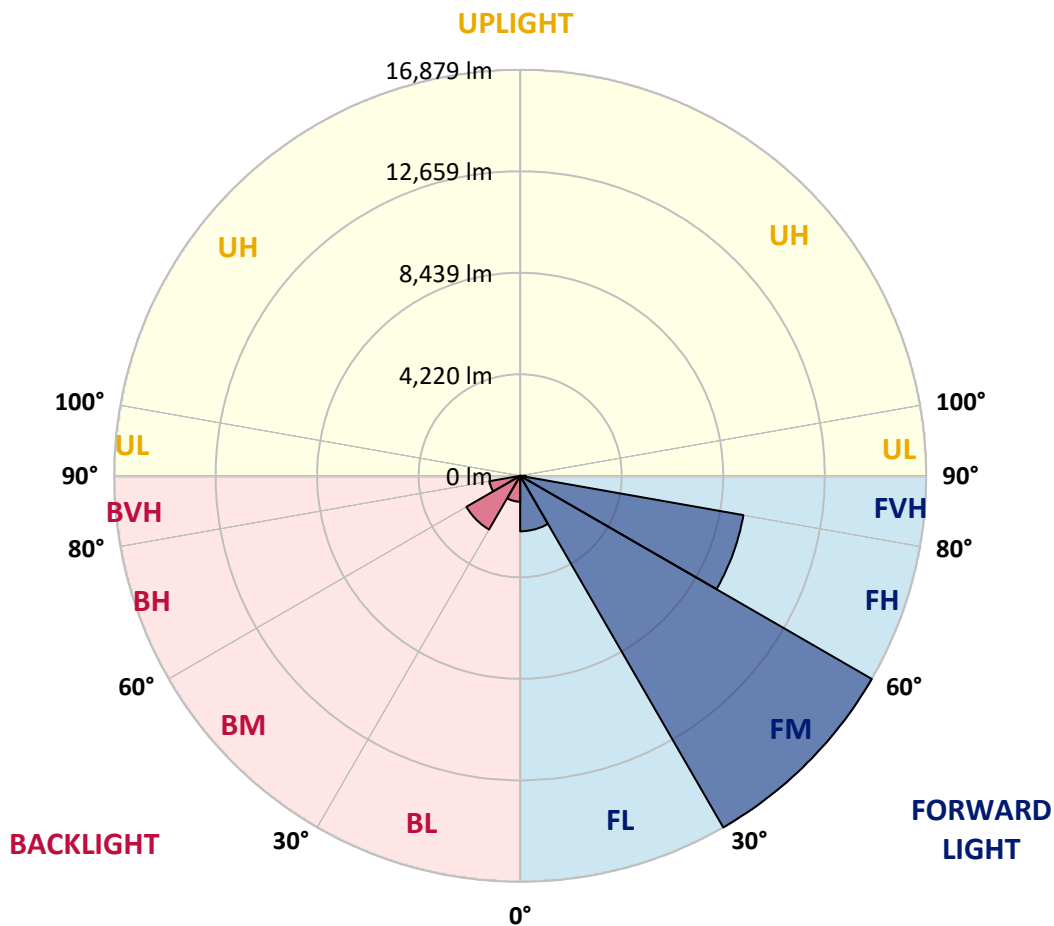
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2307.2  | 6.8       |                         |      |          |
| FM   | (30°-60°)   | 16878.6 | 49.9      |                         |      |          |
| FH   | (60°-80°)   | 9423.1  | 27.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 222.2   | 0.7       |                         |      | G2/225   |
| BL   | (0°-30°)    | 1075.2  | 3.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2578.2  | 7.6       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1297.0  | 3.8       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 17.8    | 0.1       |                         |      | G1/100   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 63°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4171.4  | 4171.4  | 4171.4  | 4171.4  | 4171.4  | 4171.4  | 4171.4  | 4171.4  | 4171.4  | 4171.4  | 4171.4  |
| 2.5°  | 4269.1  | 4257.5  | 4273.8  | 4266.8  | 4262.2  | 4252.8  | 4248.2  | 4243.6  | 4234.3  | 4227.3  | 4199.4  |
| 5°    | 4280.8  | 4273.8  | 4290.0  | 4304.0  | 4318.0  | 4332.0  | 4338.9  | 4348.2  | 4338.9  | 4320.3  | 4292.4  |
| 7.5°  | 4183.1  | 4178.4  | 4213.4  | 4255.2  | 4318.0  | 4371.4  | 4429.5  | 4462.1  | 4464.5  | 4457.5  | 4427.3  |
| 10°   | 4176.2  | 4164.5  | 4199.4  | 4250.6  | 4332.0  | 4427.3  | 4529.6  | 4599.3  | 4608.6  | 4638.8  | 4606.3  |
| 12.5° | 4285.4  | 4273.8  | 4322.6  | 4378.4  | 4462.1  | 4562.2  | 4687.7  | 4785.3  | 4799.3  | 4841.2  | 4817.9  |
| 15°   | 4469.1  | 4452.8  | 4508.7  | 4580.7  | 4687.7  | 4801.6  | 4934.1  | 5022.5  | 5034.2  | 5085.3  | 5043.4  |
| 17.5° | 4683.0  | 4666.7  | 4731.9  | 4808.6  | 4924.8  | 5080.6  | 5234.2  | 5331.7  | 5345.7  | 5378.3  | 5301.5  |
| 20°   | 4957.4  | 4936.5  | 4987.6  | 5057.3  | 5180.7  | 5366.7  | 5550.4  | 5689.9  | 5687.5  | 5687.5  | 5562.0  |
| 22.5° | 5276.0  | 5243.4  | 5287.6  | 5343.4  | 5459.7  | 5685.2  | 5929.3  | 6094.4  | 6094.4  | 6029.4  | 5822.4  |
| 25°   | 5617.8  | 5585.2  | 5634.0  | 5685.2  | 5787.6  | 6043.3  | 6329.3  | 6534.0  | 6543.2  | 6431.6  | 6101.4  |
| 27.5° | 6045.7  | 6003.7  | 6040.9  | 6101.4  | 6161.9  | 6422.3  | 6761.8  | 6999.0  | 7003.6  | 6831.5  | 6366.5  |
| 30°   | 6868.7  | 6750.1  | 6633.9  | 6568.8  | 6596.7  | 6854.8  | 7217.5  | 7480.3  | 7503.5  | 7266.3  | 6654.8  |
| 32.5° | 8375.5  | 8352.3  | 7943.0  | 7408.2  | 7129.2  | 7319.8  | 7726.8  | 8043.0  | 8056.9  | 7752.4  | 7029.2  |
| 35°   | 10717.0 | 10689.1 | 10031.1 | 9012.6  | 8103.4  | 7943.0  | 8345.2  | 8719.7  | 8710.3  | 8366.3  | 7515.2  |
| 37.5° | 13512.0 | 13486.4 | 12619.1 | 11256.4 | 9784.6  | 8884.7  | 9142.8  | 9535.8  | 9593.9  | 9142.8  | 8143.0  |
| 40°   | 15900.0 | 15804.7 | 15255.9 | 13942.2 | 12016.8 | 10447.3 | 10277.6 | 10538.0 | 10598.4 | 10063.7 | 8940.6  |
| 42.5° | 17709.0 | 17627.6 | 17348.6 | 16527.8 | 14718.8 | 12758.6 | 11614.6 | 11714.5 | 11782.0 | 11140.2 | 9856.7  |
| 45°   | 18646.1 | 18627.5 | 18739.2 | 18662.4 | 17471.8 | 15595.4 | 13525.9 | 13109.7 | 13135.3 | 12333.1 | 10896.1 |
| 47.5° | 18778.6 | 18769.4 | 19278.6 | 19999.4 | 19839.0 | 18794.9 | 15979.0 | 14849.0 | 14758.3 | 13679.3 | 12026.1 |
| 50°   | 17997.4 | 17978.8 | 18955.3 | 20306.3 | 21420.1 | 21482.9 | 18764.7 | 16809.2 | 16609.2 | 15072.2 | 13205.1 |
| 52.5° | 15502.4 | 15497.7 | 17102.1 | 19350.7 | 21975.9 | 23836.1 | 21517.8 | 18962.3 | 18627.5 | 16546.4 | 14451.4 |
| 55°   | 11928.4 | 12014.5 | 13853.8 | 16511.5 | 20962.1 | 24968.4 | 23989.5 | 21352.7 | 20838.8 | 18030.0 | 15600.0 |
| 57.5° | 8449.9  | 8575.5  | 10393.8 | 12760.9 | 17818.3 | 24298.8 | 25661.4 | 23747.7 | 23194.3 | 19508.7 | 16765.0 |
| 60°   | 4538.9  | 4650.5  | 6471.1  | 9296.3  | 13256.2 | 21801.4 | 26542.6 | 25826.4 | 25303.3 | 20913.2 | 17816.0 |
| 62.5° | 2704.3  | 2741.5  | 3494.8  | 6001.5  | 8966.1  | 16655.7 | 26168.2 | 27409.9 | 26979.7 | 22092.1 | 18729.8 |
| 65°   | 1941.6  | 1948.5  | 2327.6  | 3664.6  | 5443.4  | 10119.4 | 23543.0 | 28167.9 | 28035.4 | 22980.4 | 19406.4 |
| 67.5° | 1634.7  | 1630.0  | 1788.1  | 2434.5  | 3708.8  | 5069.0  | 18043.9 | 27096.0 | 27658.7 | 23543.0 | 19790.1 |
| 70°   | 1402.1  | 1409.1  | 1595.1  | 1783.5  | 2788.0  | 2869.4  | 8970.8  | 23591.9 | 24791.7 | 23691.8 | 19766.9 |
| 72.5° | 1044.1  | 1067.3  | 1239.3  | 1625.3  | 2104.3  | 1974.2  | 3097.2  | 17492.8 | 19662.3 | 22322.3 | 18741.4 |
| 75°   | 737.1   | 748.8   | 872.0   | 1367.2  | 1569.6  | 1436.9  | 1581.2  | 9042.9  | 11823.9 | 17113.8 | 15339.6 |
| 77.5° | 567.3   | 588.2   | 660.4   | 955.7   | 1546.3  | 1009.1  | 967.3   | 3129.7  | 4808.6  | 10338.0 | 10517.0 |
| 80°   | 306.9   | 344.1   | 476.6   | 690.6   | 1085.9  | 713.8   | 479.0   | 1246.3  | 1630.0  | 4834.2  | 4055.2  |
| 82.5° | 158.2   | 176.7   | 332.5   | 497.6   | 618.5   | 623.2   | 237.2   | 518.5   | 672.0   | 1492.8  | 555.8   |
| 85°   | 62.8    | 76.8    | 223.2   | 274.4   | 318.6   | 306.9   | 107.0   | 209.3   | 241.8   | 413.9   | 169.7   |
| 87.5° | 13.9    | 23.3    | 81.4    | 62.8    | 60.5    | 65.1    | 25.6    | 48.8    | 46.5    | 48.8    | 30.2    |
| 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°    | 4171.4  | 4171.4  | 4171.4 | 4171.4 | 4171.4 | 4171.4 | 4171.4 | 4171.4 | 4171.4 | 4171.4 | 4171.4 |
| 2.5°  | 4197.1  | 4187.7  | 4162.2 | 4134.2 | 4101.7 | 4083.1 | 4071.5 | 4069.1 | 4052.8 | 4041.3 | 4052.8 |
| 5°    | 4266.8  | 4257.5  | 4208.6 | 4150.5 | 4087.8 | 4038.9 | 3992.5 | 3950.6 | 3890.1 | 3878.5 | 3873.9 |
| 7.5°  | 4406.4  | 4380.7  | 4301.7 | 4222.6 | 4104.1 | 3962.2 | 3790.1 | 3592.5 | 3415.8 | 3362.3 | 3336.7 |
| 10°   | 4578.4  | 4543.5  | 4443.6 | 4304.0 | 4041.3 | 3655.3 | 3239.1 | 2853.1 | 2546.1 | 2460.1 | 2427.5 |
| 12.5° | 4773.7  | 4743.5  | 4611.0 | 4352.9 | 3778.6 | 3078.6 | 2441.5 | 1962.5 | 1664.9 | 1590.5 | 1569.6 |
| 15°   | 5006.2  | 4962.0  | 4778.3 | 4278.5 | 3308.8 | 2339.2 | 1676.5 | 1392.8 | 1285.9 | 1271.9 | 1258.0 |
| 17.5° | 5252.7  | 5180.7  | 4927.2 | 4011.0 | 2676.4 | 1662.6 | 1295.2 | 1213.8 | 1167.3 | 1153.3 | 1146.4 |
| 20°   | 5478.3  | 5385.2  | 5015.5 | 3606.5 | 1999.7 | 1295.2 | 1160.3 | 1106.8 | 1065.0 | 1048.7 | 1039.4 |
| 22.5° | 5703.8  | 5571.3  | 5015.5 | 3055.3 | 1499.8 | 1148.7 | 1065.0 | 1016.1 | 967.3  | 946.4  | 934.7  |
| 25°   | 5938.6  | 5761.9  | 4927.2 | 2441.5 | 1206.8 | 1053.3 | 974.3  | 920.8  | 878.9  | 853.3  | 844.1  |
| 27.5° | 6166.5  | 5922.3  | 4724.8 | 1860.2 | 1074.3 | 969.6  | 890.5  | 839.4  | 799.9  | 781.3  | 781.3  |
| 30°   | 6382.8  | 6080.5  | 4441.2 | 1411.4 | 988.2  | 888.3  | 813.8  | 769.7  | 730.1  | 711.6  | 713.8  |
| 32.5° | 6675.7  | 6280.5  | 4139.0 | 1157.9 | 913.8  | 811.5  | 744.0  | 702.2  | 667.4  | 653.4  | 653.4  |
| 35°   | 7082.6  | 6575.8  | 3878.5 | 1137.0 | 851.1  | 748.8  | 681.3  | 641.8  | 606.9  | 595.2  | 595.2  |
| 37.5° | 7659.3  | 7052.4  | 3741.4 | 1276.5 | 799.9  | 692.9  | 630.2  | 588.2  | 555.8  | 546.4  | 544.1  |
| 40°   | 8370.9  | 7698.9  | 3815.8 | 1416.0 | 765.0  | 644.1  | 583.6  | 541.8  | 513.8  | 502.2  | 499.9  |
| 42.5° | 9215.0  | 8496.4  | 4227.3 | 1523.0 | 741.8  | 602.2  | 539.5  | 492.9  | 474.4  | 469.7  | 469.7  |
| 45°   | 10184.5 | 9373.0  | 4857.5 | 1636.9 | 704.6  | 562.7  | 495.3  | 460.4  | 446.5  | 444.1  | 441.8  |
| 47.5° | 11286.7 | 10335.7 | 5587.6 | 1778.8 | 667.4  | 525.5  | 460.4  | 437.2  | 425.5  | 420.9  | 420.9  |
| 50°   | 12379.5 | 11305.3 | 6338.6 | 1857.9 | 637.1  | 490.7  | 432.4  | 413.9  | 404.6  | 402.3  | 402.3  |
| 52.5° | 13523.6 | 12302.9 | 6945.5 | 1783.5 | 611.5  | 462.7  | 409.3  | 395.2  | 386.0  | 383.7  | 383.7  |
| 55°   | 14614.1 | 13109.7 | 7050.2 | 1513.7 | 560.4  | 434.8  | 383.7  | 376.7  | 365.1  | 365.1  | 362.7  |
| 57.5° | 15553.6 | 13514.3 | 6310.7 | 1111.5 | 509.2  | 393.0  | 358.1  | 351.1  | 341.8  | 339.5  | 337.1  |
| 60°   | 16416.2 | 13398.1 | 4871.4 | 748.8  | 453.5  | 351.1  | 325.5  | 320.9  | 311.6  | 299.9  | 297.7  |
| 62.5° | 16902.1 | 12886.5 | 3332.1 | 488.3  | 397.6  | 306.9  | 288.3  | 286.0  | 265.1  | 241.8  | 237.2  |
| 65°   | 17085.8 | 11835.5 | 2078.8 | 355.8  | 332.5  | 262.7  | 248.8  | 244.2  | 213.9  | 188.4  | 186.0  |
| 67.5° | 16925.4 | 10105.5 | 1048.7 | 281.4  | 262.7  | 218.5  | 204.6  | 204.6  | 183.7  | 160.4  | 158.2  |
| 70°   | 16283.7 | 7575.7  | 441.8  | 225.5  | 202.3  | 167.4  | 167.4  | 176.7  | 155.8  | 130.2  | 127.9  |
| 72.5° | 14890.8 | 5096.9  | 234.8  | 172.1  | 151.2  | 118.6  | 137.1  | 144.1  | 123.2  | 97.7   | 97.7   |
| 75°   | 11837.8 | 3108.8  | 162.8  | 127.9  | 95.3   | 83.7   | 104.7  | 109.3  | 83.7   | 65.1   | 62.8   |
| 77.5° | 8096.5  | 1785.8  | 109.3  | 81.4   | 60.5   | 48.8   | 72.1   | 67.4   | 44.2   | 30.2   | 32.6   |
| 80°   | 3555.3  | 744.0   | 62.8   | 37.2   | 23.3   | 18.6   | 25.6   | 18.6   | 13.9   | 9.3    | 9.3    |
| 82.5° | 416.3   | 174.4   | 23.3   | 13.9   | 9.3    | 4.6    | 2.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 86.0    | 20.9    | 11.6   | 4.6    | 2.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 16.3    | 4.6     | 2.4    | 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)