

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: P968335

Luminaire Tested: **NVN-SB5B-760-U-AFL-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P968335  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB5B-760-U-AFL-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 5700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 26300.5 lumens  
Efficiency: N/A  
Efficacy: 144.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 182.7  
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

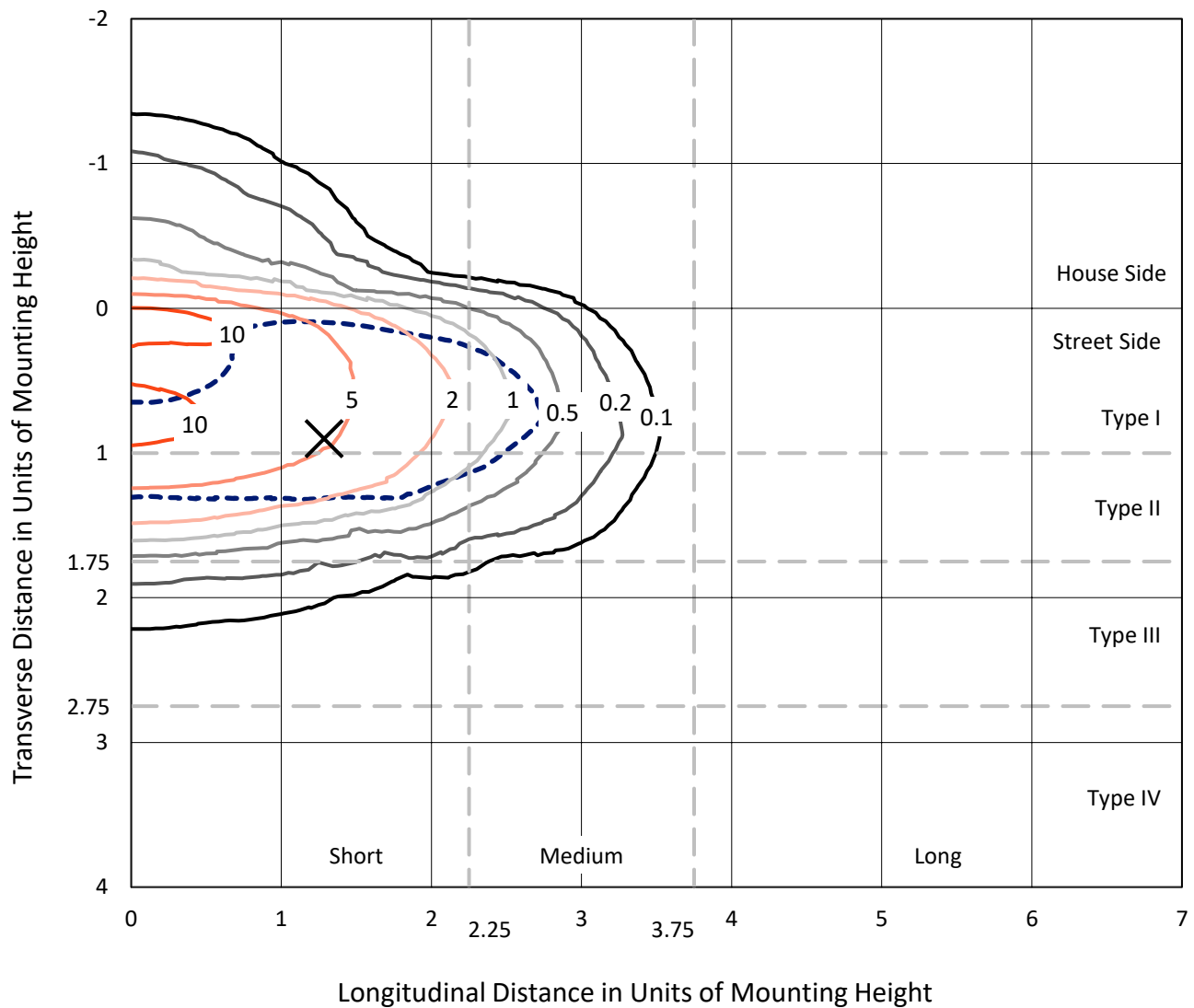


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

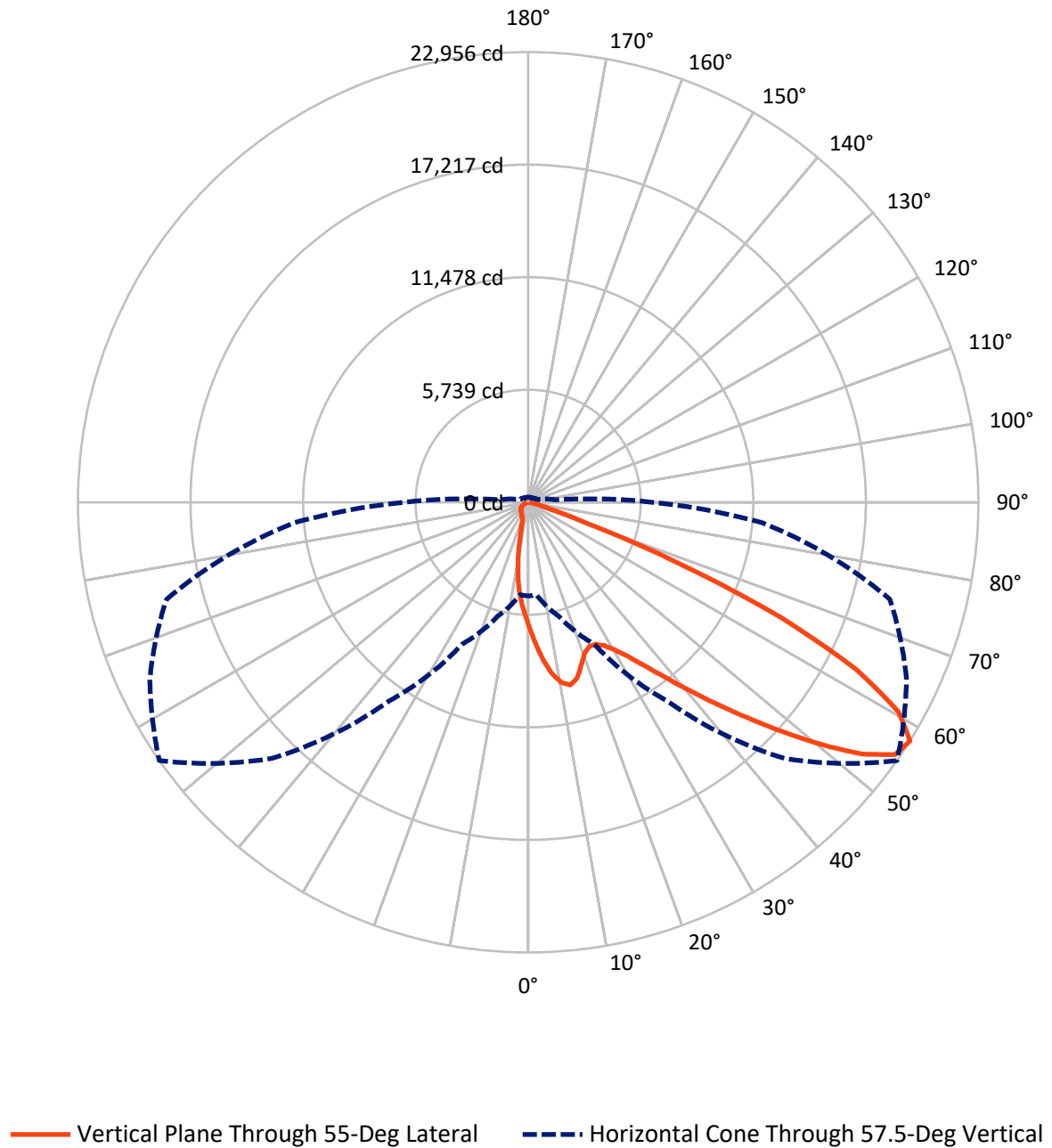


Based on 25 foot mounting height. Maximum calculated value = 14.5 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2054.0   | 0.0    | 2054.0  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 24246.5  | 0.0    | 24246.5 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 26300.5  | 0.0    | 26300.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 589.7   | 2.2       |
| 10°-20°   | 1424.4  | 5.4       |
| 20°-30°   | 2279.0  | 8.7       |
| 30°-40°   | 3857.4  | 14.7      |
| 40°-50°   | 6333.0  | 24.1      |
| 50°-60°   | 6960.5  | 26.5      |
| 60°-70°   | 3992.5  | 15.2      |
| 70°-80°   | 815.8   | 3.1       |
| 80°-90°   | 48.1    | 0.2       |
| 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°    | 26300.5 | 100.0     |
| 0°-180°   | 26300.5 | 100.0     |

**Coefficient of Utilization**



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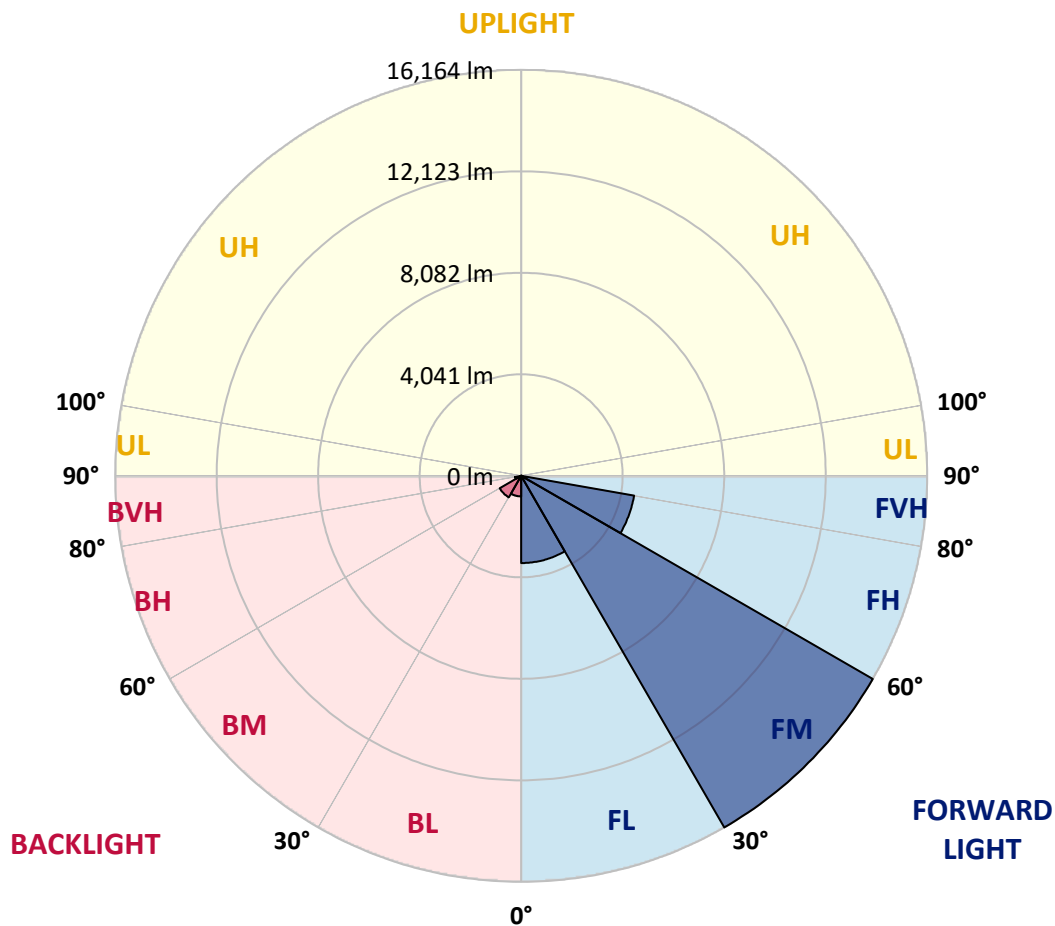
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3473.1  | 13.2      |                         |      |         |
| FM   | (30°-60°)   | 16164.5 | 61.5      |                         |      |         |
| FH   | (60°-80°)   | 4564.0  | 17.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 44.9    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 820.0   | 3.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 986.4   | 3.8       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 244.3   | 0.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 3.2     | 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-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 6337.8  | 6337.8  | 6337.8  | 6337.8  | 6337.8  | 6337.8  | 6337.8  | 6337.8  | 6337.8  | 6337.8  | 6337.8 |
| 2.5°  | 7863.8  | 7764.9  | 7750.3  | 7730.9  | 7542.8  | 7401.6  | 7197.2  | 6973.5  | 6722.2  | 6465.9  | 6352.3 |
| 5°    | 9085.0  | 9007.2  | 8992.5  | 8901.7  | 8687.7  | 8447.6  | 8084.4  | 7625.4  | 7156.8  | 6605.3  | 6368.5 |
| 7.5°  | 9321.8  | 9307.2  | 9373.6  | 9370.4  | 9341.2  | 9151.5  | 8844.9  | 8298.5  | 7594.6  | 6777.3  | 6410.8 |
| 10°   | 8266.0  | 8303.3  | 8501.1  | 8674.7  | 9143.4  | 9415.9  | 9349.3  | 8898.5  | 8045.4  | 6973.5  | 6457.8 |
| 12.5° | 7304.4  | 7260.6  | 7401.6  | 7597.8  | 8142.8  | 8953.7  | 9558.5  | 9399.7  | 8561.2  | 7195.7  | 6527.5 |
| 15°   | 6701.0  | 6683.2  | 6762.6  | 6853.5  | 7268.7  | 8086.0  | 9315.3  | 9806.7  | 9057.4  | 7458.4  | 6632.9 |
| 17.5° | 6508.0  | 6493.5  | 6517.8  | 6540.5  | 6809.7  | 7442.2  | 8736.3  | 10056.4 | 9532.6  | 7758.4  | 6749.7 |
| 20°   | 6665.4  | 6645.9  | 6642.6  | 6624.8  | 6736.7  | 7168.1  | 8212.5  | 10074.2 | 9959.1  | 8030.9  | 6850.3 |
| 22.5° | 7124.3  | 7101.6  | 7022.2  | 6950.8  | 6960.5  | 7205.4  | 7979.0  | 9895.9  | 10280.2 | 8285.5  | 6913.5 |
| 25°   | 7956.3  | 7918.9  | 7753.5  | 7513.6  | 7361.0  | 7464.9  | 8014.7  | 9660.7  | 10586.7 | 8484.9  | 6882.7 |
| 27.5° | 8997.4  | 8948.8  | 8736.3  | 8379.6  | 8030.9  | 7904.4  | 8272.5  | 9498.6  | 10841.3 | 8637.4  | 6816.1 |
| 30°   | 10017.5 | 9954.3  | 9745.1  | 9467.7  | 8958.5  | 8559.6  | 8737.9  | 9569.9  | 11144.6 | 8796.3  | 6728.6 |
| 32.5° | 11118.7 | 11058.6 | 10781.4 | 10437.6 | 10015.9 | 9479.1  | 9375.3  | 9918.6  | 11516.0 | 9018.5  | 6667.0 |
| 35°   | 12511.8 | 12417.7 | 12023.6 | 11554.9 | 11107.3 | 10564.1 | 10238.0 | 10520.2 | 12010.6 | 9357.4  | 6701.0 |
| 37.5° | 14097.8 | 13971.3 | 13546.4 | 12899.3 | 12315.5 | 11707.3 | 11288.9 | 11347.4 | 12735.5 | 9811.5  | 6806.4 |
| 40°   | 15593.0 | 15477.9 | 15085.4 | 14475.7 | 13742.7 | 13004.8 | 12558.8 | 12429.0 | 13736.1 | 10364.6 | 6991.3 |
| 42.5° | 16489.9 | 16386.1 | 16220.6 | 15962.8 | 15345.0 | 14592.4 | 14029.7 | 13749.1 | 14920.0 | 11026.2 | 7216.7 |
| 45°   | 16540.1 | 16449.3 | 16671.5 | 16971.5 | 16849.9 | 16348.7 | 15662.8 | 15148.7 | 16108.8 | 11647.4 | 7450.3 |
| 47.5° | 15735.8 | 15674.1 | 16348.7 | 17396.4 | 17918.6 | 18129.5 | 17497.0 | 16431.5 | 17089.9 | 12093.4 | 7545.9 |
| 50°   | 13543.1 | 13520.5 | 14908.6 | 16832.0 | 18325.7 | 19689.5 | 19431.7 | 17625.1 | 17850.5 | 12323.6 | 7455.1 |
| 52.5° | 11743.0 | 11660.3 | 12469.5 | 15025.5 | 17733.7 | 20510.1 | 21322.7 | 18795.9 | 18382.5 | 12367.4 | 7242.6 |
| 55°   | 8906.6  | 8833.7  | 9848.8  | 12002.5 | 15825.0 | 20218.2 | 22706.0 | 20004.2 | 18763.5 | 12255.5 | 6861.6 |
| 57.5° | 4777.6  | 4732.2  | 6015.0  | 7988.7  | 12370.6 | 18466.8 | 22955.8 | 21282.1 | 19084.7 | 11958.7 | 6328.0 |
| 60°   | 1860.2  | 1852.1  | 2332.1  | 3875.9  | 7518.4  | 15023.8 | 21695.7 | 22049.2 | 19285.8 | 11593.9 | 5882.1 |
| 62.5° | 1125.4  | 1149.8  | 1227.6  | 1740.1  | 3321.3  | 9333.1  | 18791.1 | 21176.7 | 19420.4 | 11259.7 | 5513.9 |
| 65°   | 930.9   | 932.5   | 942.3   | 1195.3  | 1590.9  | 3905.1  | 14146.4 | 18306.2 | 19087.9 | 10664.6 | 4991.8 |
| 67.5° | 797.9   | 812.5   | 849.8   | 948.7   | 1122.3  | 1712.6  | 8144.3  | 14180.5 | 17065.6 | 9279.6  | 4177.6 |
| 70°   | 629.2   | 648.7   | 695.8   | 780.0   | 866.0   | 1071.9  | 3009.9  | 9435.3  | 13037.2 | 6994.6  | 3159.2 |
| 72.5° | 530.3   | 528.7   | 553.0   | 634.1   | 687.6   | 754.1   | 1157.9  | 5286.8  | 7576.8  | 3339.1  | 1563.3 |
| 75°   | 410.3   | 426.5   | 457.4   | 530.3   | 562.7   | 546.5   | 627.6   | 1931.5  | 2714.8  | 1012.0  | 532.0  |
| 77.5° | 321.1   | 334.0   | 361.6   | 433.0   | 465.5   | 387.6   | 361.6   | 690.8   | 872.5   | 363.3   | 240.1  |
| 80°   | 144.3   | 155.7   | 246.5   | 319.5   | 379.5   | 267.6   | 196.2   | 353.5   | 387.6   | 165.4   | 121.7  |
| 82.5° | 25.9    | 43.8    | 144.3   | 168.6   | 194.6   | 173.5   | 102.2   | 183.3   | 189.7   | 66.5    | 42.1   |
| 85°   | 1.6     | 3.3     | 50.2    | 61.6    | 77.8    | 56.8    | 30.9    | 73.0    | 63.2    | 22.8    | 16.2   |
| 87.5° | 0.0     | 0.0     | 0.0     | 1.6     | 1.6     | 8.1     | 9.7     | 13.0    | 9.7     | 8.1     | 6.5    |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6337.8 | 6337.8 | 6337.8 | 6337.8 | 6337.8 | 6337.8 | 6337.8 | 6337.8 | 6337.8 | 6337.8 |
| 2.5°  | 6235.6 | 6005.3 | 5781.5 | 5598.2 | 5491.2 | 5309.6 | 5189.6 | 5170.1 | 5119.9 | 5163.6 |
| 5°    | 6115.6 | 5703.7 | 5286.8 | 4913.8 | 4607.4 | 4211.6 | 3916.5 | 3791.7 | 3682.9 | 3720.2 |
| 7.5°  | 6058.9 | 5408.5 | 4759.8 | 4122.4 | 3467.3 | 2834.8 | 2364.5 | 2168.3 | 2019.0 | 2040.2 |
| 10°   | 5982.6 | 5102.0 | 4085.1 | 3112.1 | 2234.8 | 1610.4 | 1286.1 | 1166.0 | 1099.5 | 1101.2 |
| 12.5° | 5924.2 | 4735.5 | 3301.8 | 2109.9 | 1360.7 | 1028.2 | 927.6  | 898.4  | 878.9  | 880.6  |
| 15°   | 5895.0 | 4304.1 | 2528.3 | 1406.1 | 973.0  | 870.8  | 846.5  | 833.5  | 820.6  | 819.0  |
| 17.5° | 5846.4 | 3824.1 | 1850.4 | 1026.5 | 851.4  | 815.7  | 794.7  | 780.0  | 763.8  | 760.6  |
| 20°   | 5773.4 | 3279.2 | 1352.5 | 867.7  | 797.9  | 770.3  | 741.2  | 721.7  | 702.2  | 698.9  |
| 22.5° | 5638.8 | 2703.4 | 1039.6 | 802.8  | 759.0  | 728.2  | 692.5  | 669.7  | 650.4  | 647.1  |
| 25°   | 5389.0 | 2163.4 | 875.8  | 762.2  | 724.9  | 687.6  | 648.7  | 617.9  | 600.0  | 596.8  |
| 27.5° | 5072.8 | 1699.6 | 794.7  | 724.9  | 681.1  | 647.1  | 603.3  | 574.1  | 557.9  | 554.6  |
| 30°   | 4699.8 | 1308.7 | 747.6  | 682.8  | 629.2  | 600.0  | 561.1  | 536.8  | 527.1  | 527.1  |
| 32.5° | 4297.6 | 1046.0 | 728.2  | 640.6  | 583.8  | 551.3  | 520.6  | 510.9  | 507.6  | 505.9  |
| 35°   | 3919.7 | 908.2  | 718.4  | 606.5  | 543.2  | 512.5  | 499.5  | 501.1  | 507.6  | 507.6  |
| 37.5° | 3584.0 | 864.4  | 713.6  | 582.2  | 507.6  | 480.0  | 488.1  | 502.8  | 496.2  | 496.2  |
| 40°   | 3280.8 | 869.3  | 710.3  | 564.4  | 478.4  | 462.2  | 478.4  | 467.1  | 450.8  | 449.3  |
| 42.5° | 3048.9 | 909.8  | 703.9  | 549.8  | 460.5  | 449.3  | 442.7  | 424.9  | 423.3  | 426.5  |
| 45°   | 2880.2 | 945.5  | 702.2  | 543.2  | 441.2  | 420.0  | 411.9  | 394.1  | 426.5  | 434.6  |
| 47.5° | 2680.8 | 945.5  | 702.2  | 520.6  | 408.7  | 400.6  | 387.6  | 368.2  | 400.6  | 408.7  |
| 50°   | 2422.9 | 885.5  | 674.7  | 494.7  | 382.7  | 377.8  | 355.2  | 330.9  | 324.3  | 329.2  |
| 52.5° | 2096.9 | 776.8  | 605.0  | 459.0  | 356.8  | 347.1  | 319.5  | 301.7  | 296.7  | 296.7  |
| 55°   | 1725.5 | 650.4  | 510.9  | 407.0  | 329.2  | 311.4  | 291.9  | 283.8  | 278.9  | 275.7  |
| 57.5° | 1402.8 | 533.5  | 410.3  | 361.6  | 303.3  | 280.5  | 274.1  | 264.3  | 256.2  | 251.3  |
| 60°   | 1151.5 | 420.0  | 339.0  | 321.1  | 277.4  | 256.2  | 254.6  | 241.6  | 220.6  | 217.3  |
| 62.5° | 888.7  | 308.1  | 285.5  | 278.9  | 251.3  | 233.5  | 230.3  | 204.4  | 171.9  | 165.4  |
| 65°   | 627.6  | 240.1  | 230.3  | 244.9  | 223.8  | 207.6  | 199.5  | 160.5  | 126.5  | 121.7  |
| 67.5° | 441.2  | 201.1  | 181.6  | 214.0  | 194.6  | 173.5  | 168.6  | 136.2  | 105.4  | 102.2  |
| 70°   | 314.6  | 163.8  | 149.2  | 183.3  | 155.7  | 152.4  | 142.7  | 113.6  | 86.0   | 82.7   |
| 72.5° | 222.2  | 124.8  | 115.1  | 159.0  | 107.0  | 131.4  | 116.7  | 87.5   | 64.9   | 61.6   |
| 75°   | 163.8  | 89.2   | 81.1   | 92.5   | 77.8   | 98.9   | 82.7   | 58.4   | 40.6   | 38.9   |
| 77.5° | 120.0  | 56.8   | 48.7   | 45.4   | 45.4   | 61.6   | 45.4   | 24.3   | 17.8   | 16.2   |
| 80°   | 84.4   | 25.9   | 22.8   | 19.5   | 17.8   | 14.6   | 6.5    | 3.3    | 1.6    | 1.6    |
| 82.5° | 50.2   | 11.4   | 11.4   | 8.1    | 4.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 11.4   | 4.8    | 4.8    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 1.6    | 1.6    | 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    |

(END OF REPORT)