

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: P965168

Luminaire Tested: **NVN-SB3D-750-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965168  
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-SB3D-750-U-T4W-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

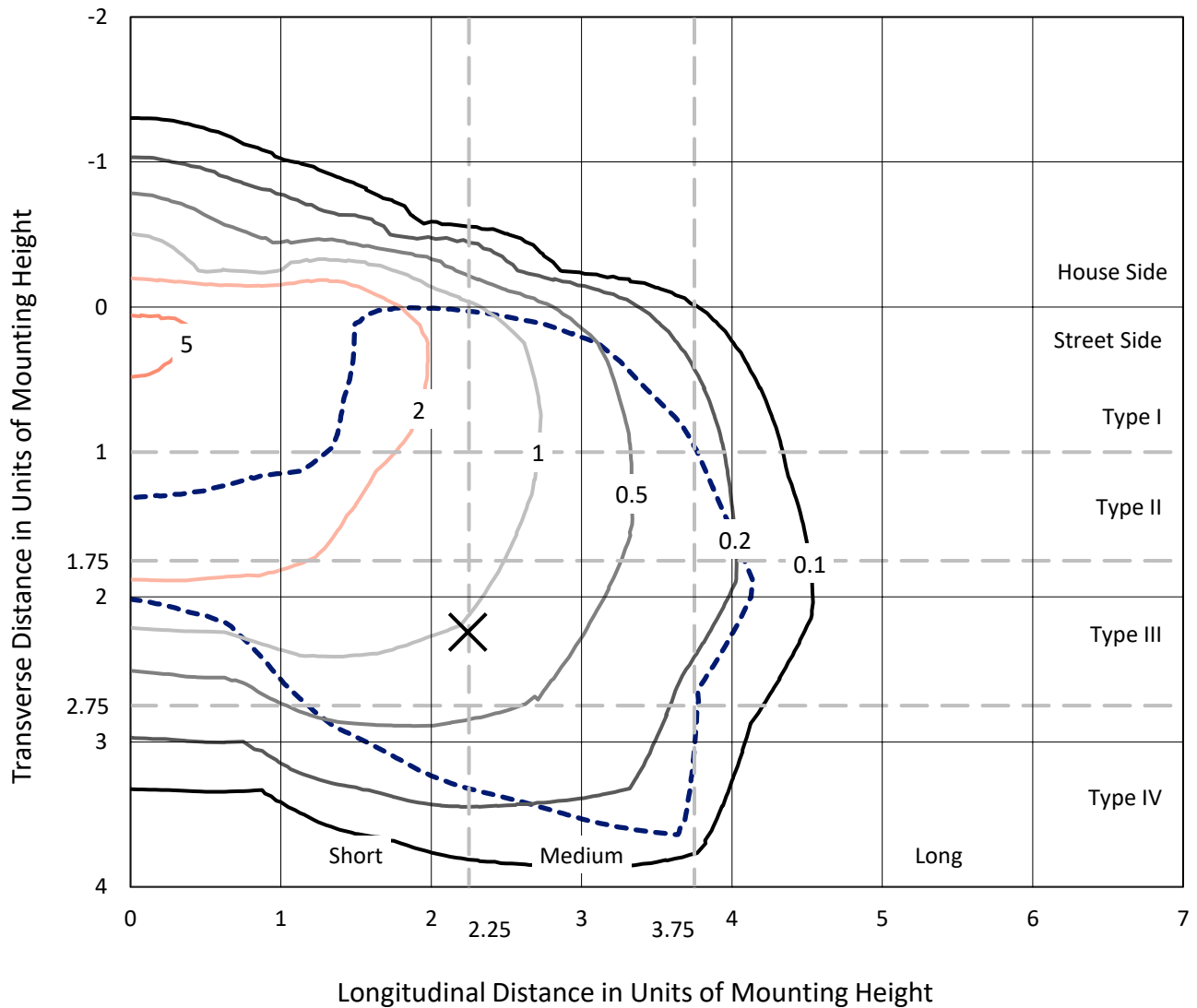
Lumens per Lamp: N/A  
Luminaire Lumens: 25504 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

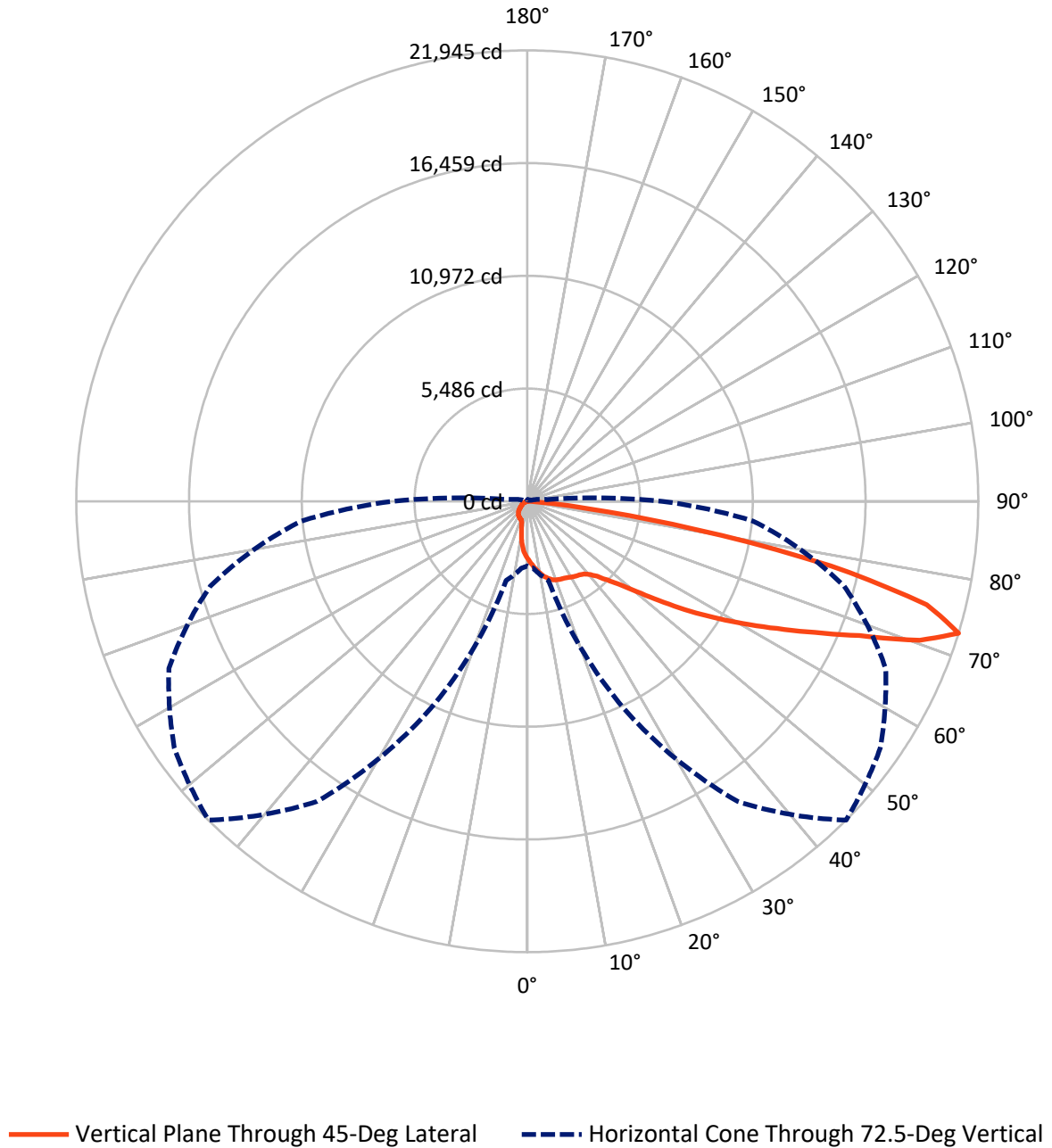
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - 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    | 2679.8   | 0.0    | 2679.8  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 22824.3  | 0.0    | 22824.3 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 25504.0  | 0.0    | 25504.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 263.3   | 1.0       |
| 10°-20°   | 769.4   | 3.0       |
| 20°-30°   | 1263.4  | 5.0       |
| 30°-40°   | 1791.9  | 7.0       |
| 40°-50°   | 2961.7  | 11.6      |
| 50°-60°   | 5320.4  | 20.9      |
| 60°-70°   | 7387.7  | 29.0      |
| 70°-80°   | 5358.8  | 21.0      |
| 80°-90°   | 387.4   | 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°    | 25504.0 | 100.0     |
| 0°-180°   | 25504.0 | 100.0     |

**Coefficient of Utilization**



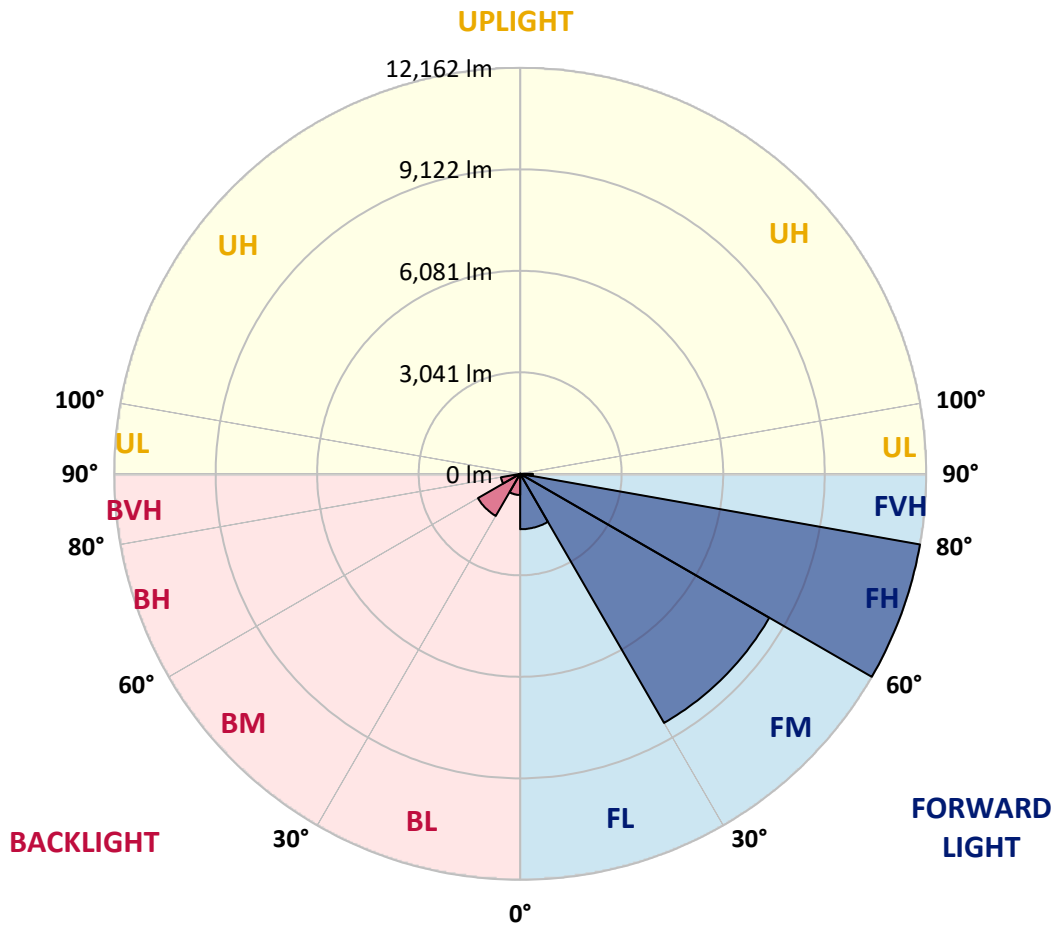
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 1661.3  | 6.5       |                         |      |         |
| FM (30°-60°)   | 8616.6  | 33.8      |                         |      |         |
| FH (60°-80°)   | 12162.2 | 47.7      |                         |      | G5      |
| FVH (80°-90°)  | 384.2   | 1.5       |                         |      | G3/500  |
| BL (0°-30°)    | 634.7   | 2.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 1457.4  | 5.7       | B2/2500                 |      |         |
| BH (60°-80°)   | 584.4   | 2.3       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 3.3     | 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-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2794.0  | 2794.0  | 2794.0  | 2794.0  | 2794.0  | 2794.0  | 2794.0  | 2794.0  | 2794.0  | 2794.0  | 2794.0  |
| 2.5°  | 3051.6  | 3056.9  | 3053.4  | 3032.6  | 2997.7  | 2978.5  | 2968.1  | 2933.2  | 2910.7  | 2870.6  | 2828.8  |
| 5°    | 3332.0  | 3352.9  | 3340.7  | 3298.9  | 3232.7  | 3185.7  | 3171.8  | 3100.4  | 3035.9  | 2961.1  | 2874.1  |
| 7.5°  | 3629.6  | 3640.1  | 3617.4  | 3563.5  | 3474.6  | 3394.6  | 3382.4  | 3283.2  | 3180.5  | 3065.6  | 2947.2  |
| 10°   | 3887.2  | 3899.4  | 3864.7  | 3786.2  | 3685.3  | 3586.1  | 3568.6  | 3459.1  | 3337.2  | 3196.2  | 3044.7  |
| 12.5° | 4103.1  | 4115.3  | 4070.1  | 3976.1  | 3864.7  | 3762.0  | 3744.5  | 3629.6  | 3495.6  | 3338.9  | 3150.8  |
| 15°   | 4266.8  | 4289.4  | 4228.4  | 4127.5  | 4007.3  | 3904.6  | 3895.9  | 3782.8  | 3652.3  | 3478.1  | 3278.0  |
| 17.5° | 4362.5  | 4385.2  | 4327.7  | 4205.9  | 4103.1  | 4016.1  | 4005.6  | 3911.6  | 3789.7  | 3622.7  | 3401.6  |
| 20°   | 4378.2  | 4399.1  | 4338.1  | 4231.9  | 4146.6  | 4077.0  | 4071.8  | 4003.9  | 3915.1  | 3755.0  | 3535.6  |
| 22.5° | 4331.1  | 4357.3  | 4301.6  | 4216.2  | 4157.1  | 4120.5  | 4113.5  | 4075.3  | 4024.8  | 3889.0  | 3661.0  |
| 25°   | 4282.4  | 4303.4  | 4261.5  | 4186.7  | 4155.3  | 4151.9  | 4157.1  | 4150.1  | 4139.7  | 4024.8  | 3807.2  |
| 27.5° | 4279.0  | 4301.6  | 4254.6  | 4183.2  | 4165.8  | 4202.4  | 4207.5  | 4240.6  | 4249.3  | 4148.4  | 3948.2  |
| 30°   | 4308.6  | 4324.2  | 4279.0  | 4204.1  | 4195.4  | 4279.0  | 4280.7  | 4339.8  | 4353.8  | 4252.8  | 4087.5  |
| 32.5° | 4373.0  | 4390.4  | 4345.1  | 4235.4  | 4223.2  | 4339.8  | 4345.1  | 4423.4  | 4446.0  | 4364.2  | 4233.7  |
| 35°   | 4524.5  | 4545.3  | 4493.1  | 4322.4  | 4279.0  | 4397.4  | 4413.0  | 4505.3  | 4550.5  | 4482.6  | 4385.2  |
| 37.5° | 4902.2  | 4841.3  | 4769.8  | 4498.3  | 4406.1  | 4487.9  | 4514.0  | 4621.9  | 4702.0  | 4623.7  | 4566.2  |
| 40°   | 5840.4  | 5649.0  | 5426.1  | 4797.7  | 4628.9  | 4681.1  | 4702.0  | 4809.9  | 4919.6  | 4843.0  | 4815.1  |
| 42.5° | 7248.8  | 7022.5  | 6663.8  | 5487.0  | 4964.8  | 4990.9  | 5006.6  | 5100.6  | 5255.6  | 5194.6  | 5201.6  |
| 45°   | 8503.9  | 8422.1  | 8056.5  | 6663.8  | 5593.2  | 5464.5  | 5483.6  | 5532.3  | 5760.4  | 5737.7  | 5783.0  |
| 47.5° | 9468.3  | 9421.4  | 9139.3  | 8014.8  | 6655.1  | 6044.1  | 6098.1  | 6120.8  | 6449.7  | 6529.9  | 6651.7  |
| 50°   | 10209.9 | 10192.5 | 9940.1  | 9215.9  | 8042.6  | 6898.9  | 6918.0  | 6869.2  | 7362.0  | 7560.4  | 7791.9  |
| 52.5° | 10909.8 | 10968.9 | 10782.7 | 10331.8 | 9524.1  | 8018.3  | 8014.8  | 7785.0  | 8450.0  | 8749.4  | 9144.5  |
| 55°   | 11541.7 | 11562.5 | 11581.7 | 11470.3 | 11014.2 | 9292.5  | 9259.4  | 8883.5  | 9712.1  | 10021.9 | 10450.2 |
| 57.5° | 12135.3 | 12144.0 | 12314.6 | 12542.6 | 12565.3 | 10660.8 | 10599.8 | 10149.0 | 11090.8 | 11311.9 | 11574.7 |
| 60°   | 12533.9 | 12574.0 | 12934.4 | 13568.0 | 13844.8 | 12072.7 | 12039.5 | 11579.9 | 12493.9 | 12596.6 | 12547.8 |
| 62.5° | 11959.5 | 12203.1 | 13111.9 | 14368.8 | 15052.9 | 13637.6 | 13621.9 | 13190.2 | 13970.1 | 13886.6 | 13468.8 |
| 65°   | 9680.7  | 10093.3 | 11691.4 | 14910.2 | 16238.4 | 15385.5 | 15408.0 | 14948.5 | 15486.4 | 15214.8 | 14217.3 |
| 67.5° | 6771.8  | 7207.0  | 9097.6  | 14953.7 | 17563.2 | 17437.8 | 17568.4 | 16847.7 | 17096.6 | 16487.3 | 14394.9 |
| 70°   | 4682.8  | 4907.4  | 6138.1  | 14017.1 | 18595.4 | 20265.0 | 20261.5 | 19180.4 | 18698.2 | 17067.1 | 13489.6 |
| 72.5° | 3149.1  | 3265.8  | 3986.5  | 11120.4 | 17836.4 | 21944.8 | 21843.9 | 20963.0 | 19237.8 | 15961.6 | 11021.1 |
| 75°   | 1328.3  | 1413.6  | 1845.3  | 6249.5  | 14111.1 | 20076.9 | 19803.6 | 18525.8 | 17093.1 | 12568.8 | 6876.2  |
| 77.5° | 421.3   | 457.9   | 727.6   | 2237.0  | 7772.8  | 15091.2 | 14802.2 | 11569.5 | 11456.3 | 6305.3  | 2513.7  |
| 80°   | 200.2   | 233.3   | 409.1   | 898.3   | 3058.6  | 8208.0  | 8167.9  | 5248.6  | 4928.3  | 1702.5  | 504.8   |
| 82.5° | 87.0    | 102.7   | 226.3   | 480.4   | 1368.3  | 2928.1  | 2987.3  | 1786.1  | 1477.9  | 645.9   | 155.0   |
| 85°   | 27.9    | 36.6    | 104.4   | 221.1   | 578.0   | 727.6   | 718.9   | 424.8   | 595.3   | 351.7   | 53.9    |
| 87.5° | 0.0     | 0.0     | 34.8    | 50.5    | 59.1    | 41.8    | 47.0    | 36.6    | 165.3   | 97.5    | 19.2    |
| 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°    | 2794.0  | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 |
| 2.5°  | 2808.0  | 2780.1 | 2731.3 | 2686.1 | 2646.0 | 2606.1 | 2581.7 | 2546.8 | 2543.3 | 2543.3 | 2552.0 |
| 5°    | 2827.1  | 2781.8 | 2694.8 | 2602.6 | 2496.4 | 2395.4 | 2294.4 | 2196.9 | 2165.6 | 2143.0 | 2153.4 |
| 7.5°  | 2882.8  | 2811.5 | 2673.9 | 2498.1 | 2296.1 | 2075.1 | 1920.1 | 1753.1 | 1688.6 | 1653.7 | 1659.0 |
| 10°   | 2962.9  | 2865.4 | 2656.5 | 2348.4 | 2021.1 | 1720.0 | 1498.9 | 1317.8 | 1248.1 | 1218.6 | 1218.6 |
| 12.5° | 3051.6  | 2931.5 | 2625.1 | 2162.1 | 1720.0 | 1359.6 | 1143.7 | 1060.2 | 1049.7 | 1049.7 | 1049.7 |
| 15°   | 3157.8  | 3011.7 | 2571.2 | 1942.8 | 1404.9 | 1075.8 | 999.3  | 1002.8 | 1013.1 | 1020.1 | 1020.1 |
| 17.5° | 3267.5  | 3096.9 | 2485.9 | 1697.3 | 1126.3 | 967.9  | 969.6  | 974.9  | 983.6  | 990.6  | 990.6  |
| 20°   | 3385.9  | 3182.2 | 2372.8 | 1436.2 | 966.2  | 936.5  | 941.8  | 947.0  | 954.0  | 957.5  | 959.2  |
| 22.5° | 3513.0  | 3262.3 | 2238.7 | 1180.3 | 912.1  | 910.4  | 912.1  | 917.4  | 926.1  | 926.1  | 929.6  |
| 25°   | 3648.8  | 3351.1 | 2085.5 | 994.0  | 884.4  | 884.4  | 887.9  | 891.3  | 898.3  | 898.3  | 900.1  |
| 27.5° | 3788.0  | 3432.9 | 1923.6 | 896.6  | 860.0  | 858.2  | 858.2  | 863.5  | 866.9  | 868.7  | 870.4  |
| 30°   | 3941.2  | 3528.7 | 1761.7 | 875.7  | 840.8  | 832.1  | 826.9  | 830.4  | 833.8  | 835.6  | 839.1  |
| 32.5° | 4098.0  | 3620.9 | 1617.2 | 884.4  | 821.6  | 806.0  | 788.6  | 785.2  | 785.2  | 792.1  | 797.3  |
| 35°   | 4272.0  | 3721.9 | 1505.8 | 913.9  | 811.2  | 767.7  | 739.8  | 724.2  | 725.9  | 736.4  | 741.6  |
| 37.5° | 4480.9  | 3843.7 | 1424.0 | 940.0  | 804.2  | 724.2  | 679.0  | 659.8  | 647.6  | 659.8  | 656.3  |
| 40°   | 4754.2  | 4023.0 | 1364.8 | 960.9  | 795.6  | 673.7  | 612.7  | 581.5  | 558.8  | 565.8  | 562.3  |
| 42.5° | 5156.4  | 4305.1 | 1342.1 | 962.7  | 776.4  | 614.5  | 544.9  | 503.1  | 470.1  | 471.8  | 464.8  |
| 45°   | 5720.3  | 4750.7 | 1458.8 | 940.0  | 734.6  | 550.1  | 473.6  | 417.8  | 396.9  | 391.7  | 384.7  |
| 47.5° | 6493.3  | 5400.0 | 1728.7 | 893.1  | 673.7  | 487.4  | 403.8  | 356.9  | 341.2  | 332.5  | 327.3  |
| 50°   | 7529.0  | 6233.8 | 2028.1 | 840.8  | 612.7  | 428.2  | 346.4  | 316.8  | 306.4  | 297.7  | 295.9  |
| 52.5° | 8730.2  | 7080.0 | 2273.6 | 788.6  | 551.9  | 376.0  | 309.9  | 292.4  | 283.7  | 276.8  | 275.0  |
| 55°   | 9832.2  | 7663.1 | 2259.6 | 732.9  | 492.6  | 334.3  | 283.7  | 273.3  | 262.9  | 255.9  | 252.5  |
| 57.5° | 10518.0 | 7744.9 | 1862.7 | 672.0  | 424.8  | 301.1  | 259.4  | 252.5  | 240.3  | 231.5  | 229.8  |
| 60°   | 10833.1 | 7278.4 | 1305.6 | 591.8  | 356.9  | 269.8  | 233.3  | 229.8  | 214.1  | 201.9  | 198.4  |
| 62.5° | 10890.6 | 6411.5 | 870.4  | 492.6  | 297.7  | 240.3  | 207.2  | 201.9  | 181.0  | 160.1  | 149.8  |
| 65°   | 10657.3 | 5171.9 | 602.3  | 384.7  | 254.2  | 208.9  | 177.5  | 167.1  | 144.5  | 123.6  | 116.6  |
| 67.5° | 9919.2  | 3631.4 | 419.5  | 276.8  | 215.9  | 165.3  | 141.0  | 137.6  | 120.1  | 102.7  | 97.5   |
| 70°   | 8566.6  | 2069.9 | 280.2  | 207.2  | 170.6  | 113.2  | 111.4  | 114.9  | 97.5   | 83.5   | 76.6   |
| 72.5° | 6568.1  | 947.0  | 174.0  | 151.5  | 116.6  | 76.6   | 88.8   | 90.5   | 74.8   | 62.6   | 55.7   |
| 75°   | 3866.4  | 405.6  | 109.7  | 97.5   | 59.1   | 50.5   | 64.4   | 66.1   | 50.5   | 40.1   | 34.8   |
| 77.5° | 1316.1  | 153.2  | 69.6   | 57.4   | 29.6   | 27.9   | 41.8   | 41.8   | 27.9   | 15.7   | 12.2   |
| 80°   | 299.4   | 57.4   | 34.8   | 22.7   | 13.9   | 12.2   | 13.9   | 12.2   | 7.0    | 1.7    | 0.0    |
| 82.5° | 85.3    | 22.7   | 13.9   | 8.7    | 5.2    | 5.2    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 24.4    | 10.5   | 3.5    | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 10.5    | 1.7    | 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)