

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: P968963

Luminaire Tested: **NVN-SB5C-835-U-SL4**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P968963  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB5C-835-U-SL4  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 35652.6 lumens  
Efficiency: N/A  
Efficacy: 142.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 249.5  
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



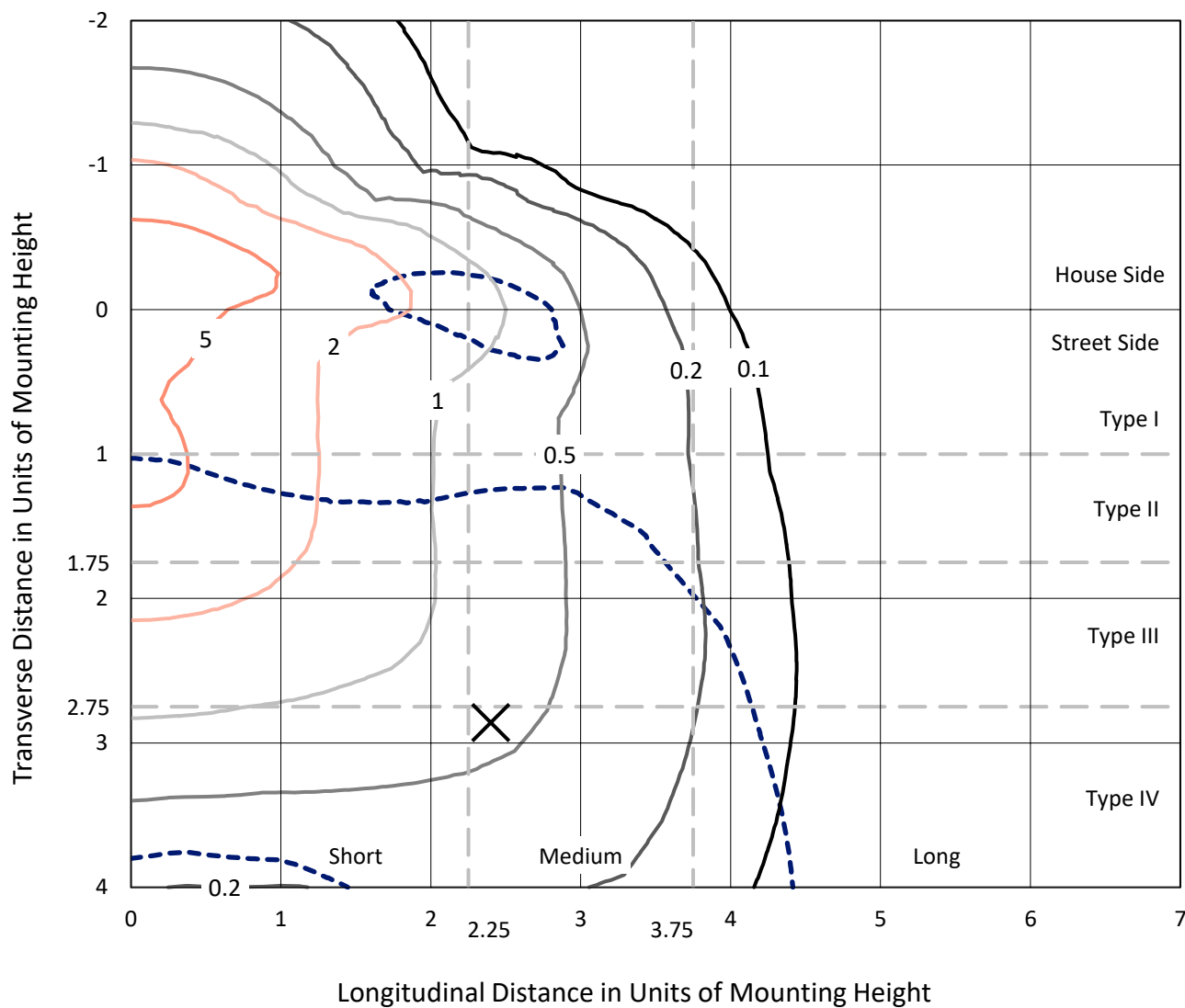
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

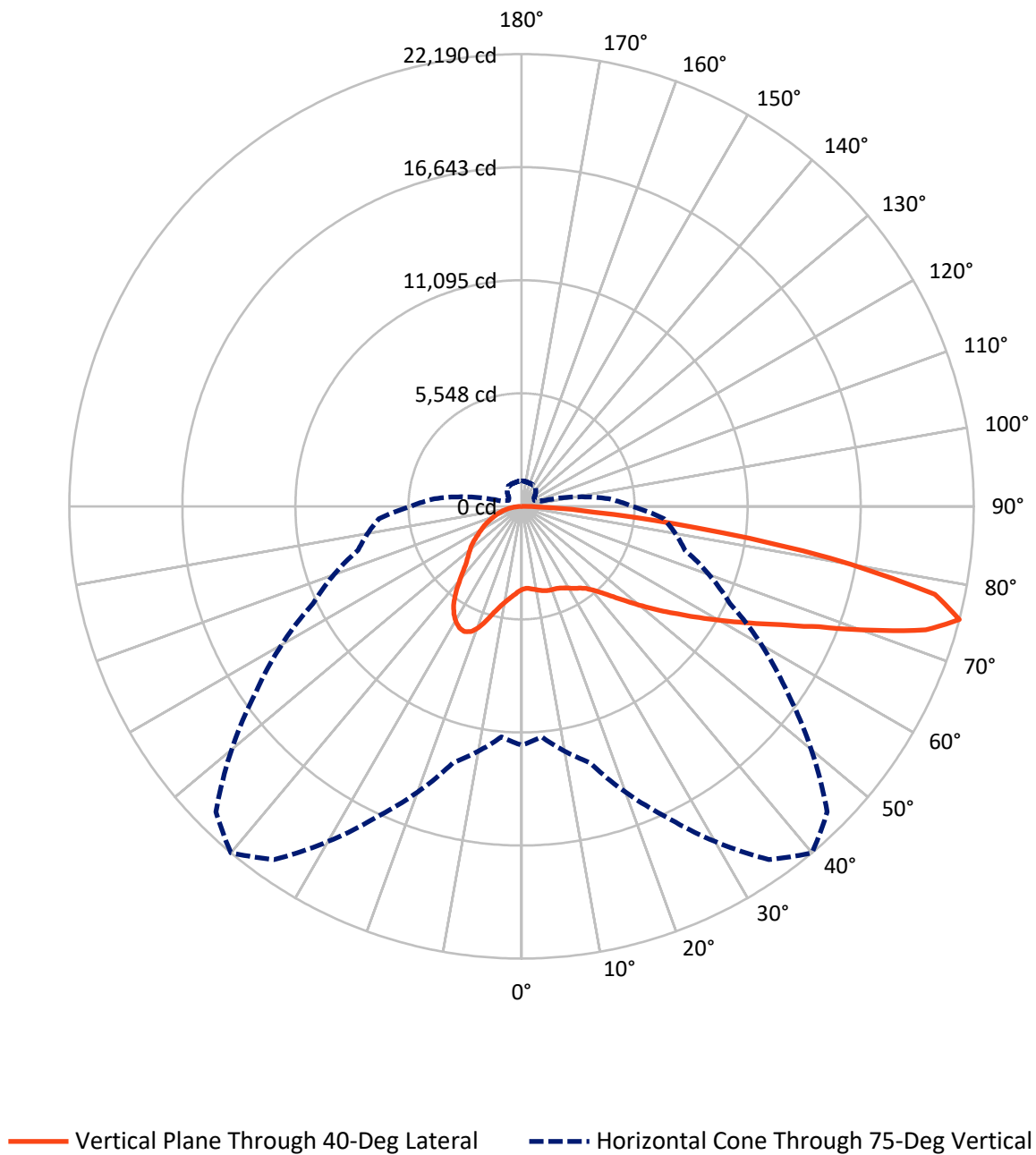


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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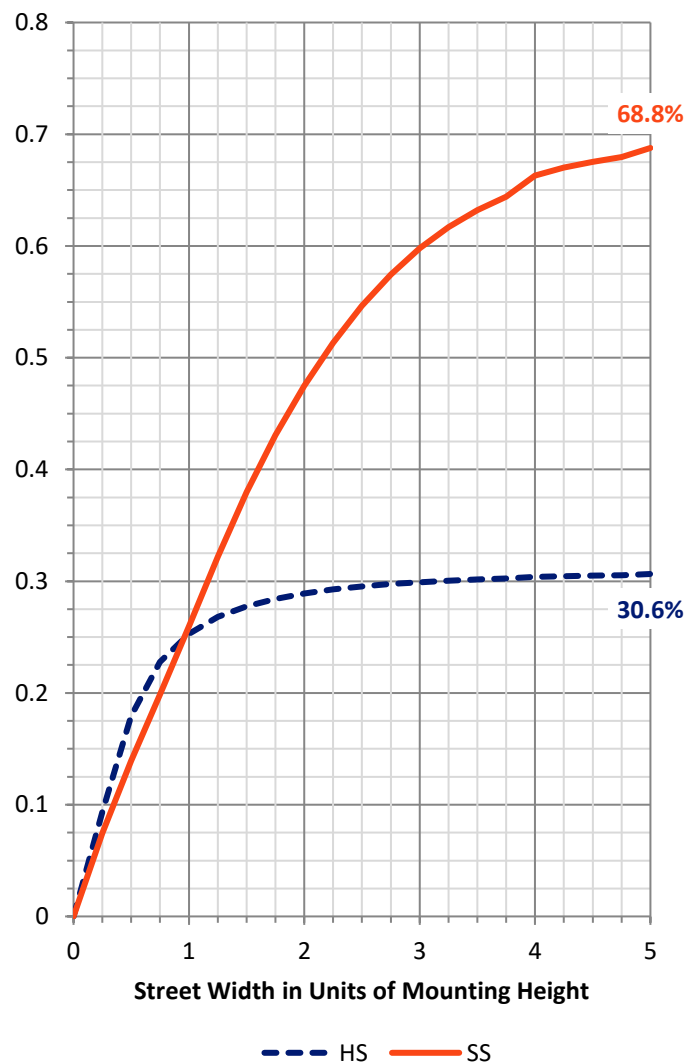
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11046.3  | 0.0    | 11046.3 |
|                    | % Fixture | 31.0     | 0.0    | 31.0    |
| <b>Street Side</b> | Lumens    | 24606.2  | 0.0    | 24606.2 |
|                    | % Fixture | 69.0     | 0.0    | 69.0    |
| <b>Total</b>       | Lumens    | 35652.6  | 0.0    | 35652.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 407.0   | 1.1       |
| 10°-20°   | 1366.3  | 3.8       |
| 20°-30°   | 2494.8  | 7.0       |
| 30°-40°   | 3538.3  | 9.9       |
| 40°-50°   | 4777.8  | 13.4      |
| 50°-60°   | 6427.4  | 18.0      |
| 60°-70°   | 8157.9  | 22.9      |
| 70°-80°   | 7403.8  | 20.8      |
| 80°-90°   | 1079.2  | 3.0       |
| 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°    | 35652.6 | 100.0     |
| 0°-180°   | 35652.6 | 100.0     |

**Coefficient of Utilization**



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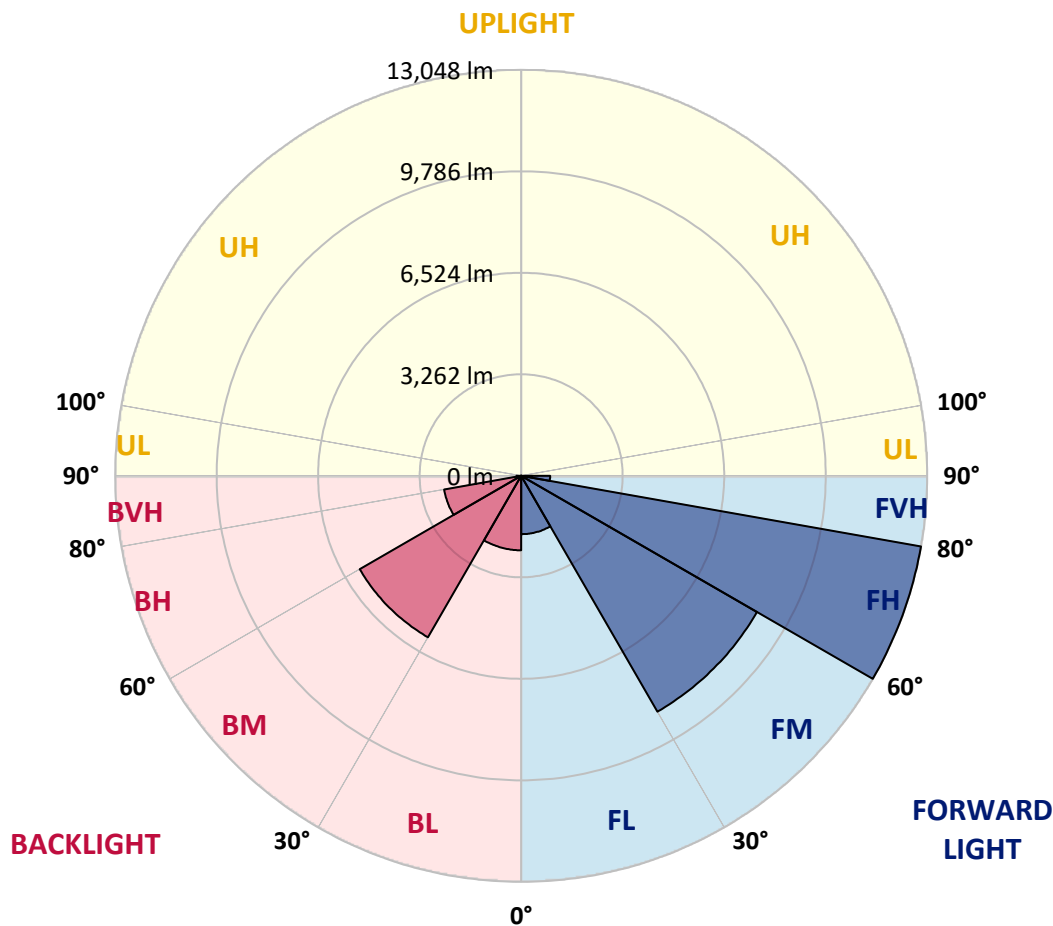
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1875.4  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 8751.9  | 24.5      |                         |      |         |
| FH   | (60°-80°)   | 13048.3 | 36.6      |                         |      | G5      |
| FVH  | (80°-90°)   | 930.7   | 2.6       |                         |      | G5      |
| BL   | (0°-30°)    | 2392.7  | 6.7       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5991.7  | 16.8      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 2513.4  | 7.0       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 148.6   | 0.4       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 40°     | 45°     | 55°     | 65°     | 75°    | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| 0°    | 4076.9  | 4076.9  | 4076.9  | 4076.9  | 4076.9  | 4076.9  | 4076.9  | 4076.9  | 4076.9  | 4076.9 | 4076.9  |
| 2.5°  | 4014.5  | 4037.2  | 4031.5  | 4023.9  | 4023.9  | 4025.9  | 4023.9  | 4037.2  | 4050.5  | 4063.7 | 4084.5  |
| 5°    | 4056.1  | 4078.8  | 4067.5  | 4058.0  | 4050.5  | 4048.5  | 4042.9  | 4041.0  | 4048.5  | 4065.6 | 4094.0  |
| 7.5°  | 4137.4  | 4160.2  | 4143.2  | 4126.0  | 4111.0  | 4103.4  | 4095.8  | 4084.5  | 4078.8  | 4088.3 | 4128.0  |
| 10°   | 4228.2  | 4250.9  | 4230.1  | 4199.8  | 4175.2  | 4165.8  | 4158.2  | 4146.8  | 4139.4  | 4145.0 | 4188.5  |
| 12.5° | 4318.9  | 4341.7  | 4313.3  | 4271.7  | 4239.5  | 4233.9  | 4224.4  | 4220.6  | 4218.7  | 4216.8 | 4260.3  |
| 15°   | 4404.0  | 4423.0  | 4387.0  | 4337.9  | 4303.9  | 4294.3  | 4284.9  | 4290.5  | 4300.1  | 4311.4 | 4360.6  |
| 17.5° | 4470.2  | 4489.2  | 4436.2  | 4371.9  | 4339.7  | 4336.0  | 4330.3  | 4349.2  | 4375.7  | 4404.0 | 4464.6  |
| 20°   | 4530.7  | 4549.7  | 4481.6  | 4394.6  | 4356.8  | 4356.8  | 4358.7  | 4398.4  | 4436.2  | 4477.8 | 4561.0  |
| 22.5° | 4615.9  | 4631.0  | 4547.7  | 4428.6  | 4373.8  | 4377.6  | 4392.7  | 4432.4  | 4479.7  | 4536.4 | 4651.8  |
| 25°   | 4742.6  | 4753.8  | 4651.8  | 4492.9  | 4430.6  | 4441.8  | 4455.2  | 4474.0  | 4519.4  | 4585.5 | 4740.6  |
| 27.5° | 4946.8  | 4956.2  | 4822.0  | 4606.3  | 4511.8  | 4530.7  | 4549.7  | 4536.4  | 4557.3  | 4613.9 | 4812.5  |
| 30°   | 5234.2  | 5239.9  | 5069.6  | 4784.2  | 4649.9  | 4659.3  | 4663.1  | 4608.3  | 4568.5  | 4613.9 | 4863.5  |
| 32.5° | 5574.6  | 5572.7  | 5370.4  | 4999.7  | 4806.8  | 4797.4  | 4765.2  | 4657.4  | 4564.8  | 4604.5 | 4908.9  |
| 35°   | 6102.1  | 6081.3  | 5820.4  | 5302.2  | 4984.6  | 4925.9  | 4850.3  | 4712.2  | 4583.7  | 4595.1 | 4948.7  |
| 37.5° | 6975.7  | 6911.5  | 6550.3  | 5797.7  | 5249.3  | 5099.9  | 4988.4  | 4801.2  | 4625.3  | 4591.3 | 4996.0  |
| 40°   | 7961.0  | 7879.7  | 7482.5  | 6476.6  | 5646.4  | 5406.3  | 5226.6  | 4927.9  | 4693.4  | 4608.3 | 5065.9  |
| 42.5° | 9129.6  | 9014.3  | 8586.8  | 7276.5  | 6149.4  | 5801.5  | 5531.1  | 5088.6  | 4793.6  | 4663.1 | 5160.5  |
| 45°   | 10564.8 | 10411.6 | 9806.6  | 8178.4  | 6782.9  | 6319.6  | 5958.4  | 5332.6  | 4946.8  | 4769.0 | 5302.2  |
| 47.5° | 12015.2 | 12053.0 | 11192.6 | 9210.9  | 7543.1  | 6958.7  | 6493.6  | 5699.4  | 5169.9  | 4939.2 | 5531.1  |
| 50°   | 13556.3 | 13582.8 | 12571.1 | 10355.0 | 8405.3  | 7681.1  | 7094.9  | 6109.7  | 5480.1  | 5181.3 | 5873.4  |
| 52.5° | 14759.0 | 14762.8 | 13822.9 | 11551.9 | 9303.5  | 8475.3  | 7743.5  | 6578.7  | 5839.3  | 5502.7 | 6329.1  |
| 55°   | 15511.6 | 15502.1 | 14700.3 | 12684.6 | 10336.0 | 9309.3  | 8462.1  | 7112.0  | 6278.0  | 5880.9 | 6902.0  |
| 57.5° | 16058.1 | 16029.7 | 15305.5 | 13658.4 | 11436.5 | 10294.4 | 9275.2  | 7717.0  | 6796.2  | 6330.9 | 7656.5  |
| 60°   | 16266.0 | 16249.0 | 15715.8 | 14500.0 | 12593.9 | 11383.6 | 10213.1 | 8394.0  | 7384.2  | 6862.3 | 8626.6  |
| 62.5° | 16345.5 | 16377.7 | 16118.5 | 15314.9 | 13832.4 | 12590.1 | 11243.6 | 9203.4  | 8046.0  | 7463.6 | 9649.6  |
| 65°   | 16625.4 | 16684.0 | 16631.0 | 16381.4 | 15231.7 | 14002.6 | 12610.9 | 10165.8 | 8768.4  | 8108.5 | 10718.0 |
| 67.5° | 17179.4 | 17238.0 | 17260.7 | 17657.8 | 16941.2 | 15763.1 | 14316.5 | 11364.7 | 9613.7  | 8777.9 | 11521.6 |
| 70°   | 17166.2 | 17149.2 | 17550.0 | 18673.2 | 19081.7 | 18200.5 | 16615.9 | 12839.7 | 10621.6 | 9333.8 | 11623.8 |
| 72.5° | 15625.0 | 15488.9 | 16436.3 | 18662.0 | 20863.1 | 20745.8 | 19424.0 | 14742.0 | 11491.4 | 9401.9 | 10086.4 |
| 75°   | 11722.1 | 11359.0 | 13032.6 | 16818.2 | 21159.9 | 22190.4 | 21209.1 | 15921.9 | 11285.2 | 8307.0 | 7019.3  |
| 77.5° | 5013.0  | 4648.0  | 6620.3  | 12450.1 | 18938.0 | 20743.8 | 19571.5 | 13891.0 | 9008.5  | 5493.3 | 3447.2  |
| 80°   | 1312.3  | 1310.5  | 2000.6  | 5644.6  | 12879.3 | 15318.7 | 13439.1 | 8970.7  | 5147.2  | 1962.8 | 951.2   |
| 82.5° | 542.7   | 529.5   | 735.5   | 2195.4  | 6293.1  | 8596.4  | 7015.5  | 4001.3  | 1858.8  | 531.4  | 315.8   |
| 85°   | 202.3   | 200.5   | 357.4   | 758.3   | 2219.9  | 3545.6  | 2566.1  | 1023.1  | 463.3   | 259.0  | 141.9   |
| 87.5° | 56.7    | 54.8    | 77.5    | 262.8   | 540.8   | 820.7   | 438.7   | 168.3   | 130.5   | 102.1  | 41.6    |
| 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°    | 4076.9  | 4076.9  | 4076.9 | 4076.9 | 4076.9 | 4076.9 | 4076.9 | 4076.9 | 4076.9 | 4076.9 | 4076.9 |
| 2.5°  | 4090.2  | 4099.6  | 4116.6 | 4129.8 | 4146.8 | 4165.8 | 4192.2 | 4209.3 | 4226.3 | 4237.7 | 4230.1 |
| 5°    | 4107.2  | 4128.0  | 4171.4 | 4215.0 | 4266.0 | 4313.3 | 4368.1 | 4407.8 | 4440.0 | 4449.4 | 4453.2 |
| 7.5°  | 4145.0  | 4179.0  | 4252.8 | 4326.5 | 4407.8 | 4485.4 | 4564.8 | 4632.9 | 4687.7 | 4708.5 | 4710.4 |
| 10°   | 4211.2  | 4256.5  | 4360.6 | 4464.6 | 4572.3 | 4691.5 | 4793.6 | 4891.9 | 4969.4 | 5001.6 | 5003.5 |
| 12.5° | 4294.3  | 4351.1  | 4487.2 | 4631.0 | 4780.4 | 4944.9 | 5077.2 | 5198.3 | 5294.7 | 5338.2 | 5338.2 |
| 15°   | 4402.2  | 4475.9  | 4649.9 | 4842.7 | 5062.1 | 5290.9 | 5459.3 | 5593.4 | 5701.3 | 5754.2 | 5750.5 |
| 17.5° | 4519.4  | 4617.7  | 4837.1 | 5128.3 | 5442.2 | 5742.9 | 5939.6 | 6037.9 | 6149.4 | 6200.4 | 6198.6 |
| 20°   | 4632.9  | 4753.8  | 5067.8 | 5491.3 | 5909.2 | 6228.8 | 6387.7 | 6414.1 | 6421.7 | 6427.4 | 6442.5 |
| 22.5° | 4750.1  | 4912.7  | 5357.1 | 5949.0 | 6397.1 | 6618.4 | 6641.1 | 6527.6 | 6368.7 | 6295.0 | 6315.8 |
| 25°   | 4878.7  | 5094.2  | 5735.3 | 6453.9 | 6817.0 | 6843.4 | 6669.5 | 6393.3 | 6092.7 | 5954.6 | 5975.4 |
| 27.5° | 5003.5  | 5304.2  | 6189.2 | 6936.1 | 7119.4 | 6886.9 | 6512.4 | 6121.1 | 5757.9 | 5612.4 | 5629.4 |
| 30°   | 5128.3  | 5544.3  | 6690.3 | 7357.8 | 7257.5 | 6779.1 | 6264.8 | 5827.9 | 5463.0 | 5309.8 | 5326.8 |
| 32.5° | 5255.0  | 5824.2  | 7266.9 | 7662.2 | 7232.9 | 6550.3 | 5956.6 | 5498.9 | 5177.5 | 5016.8 | 5037.6 |
| 35°   | 5398.7  | 6168.3  | 7813.5 | 7828.6 | 7068.4 | 6213.8 | 5550.0 | 5105.6 | 4825.7 | 4697.2 | 4725.6 |
| 37.5° | 5585.9  | 6605.1  | 8295.6 | 7870.2 | 6781.0 | 5720.2 | 5045.0 | 4640.4 | 4409.8 | 4351.1 | 4392.7 |
| 40°   | 5818.5  | 7130.8  | 8664.4 | 7804.0 | 6355.5 | 5120.7 | 4492.9 | 4169.6 | 4039.1 | 4052.3 | 4097.7 |
| 42.5° | 6121.1  | 7719.0  | 8923.4 | 7633.8 | 5763.7 | 4502.4 | 4008.9 | 3865.2 | 3927.5 | 3980.5 | 4029.7 |
| 45°   | 6514.4  | 8329.7  | 9084.2 | 7344.5 | 5094.2 | 3978.6 | 3723.3 | 3757.3 | 3804.6 | 3810.3 | 3848.2 |
| 47.5° | 7017.4  | 8948.0  | 9190.0 | 6907.7 | 4411.6 | 3609.8 | 3541.8 | 3549.4 | 3539.8 | 3500.2 | 3530.4 |
| 50°   | 7645.2  | 9549.4  | 9284.7 | 6329.1 | 3831.1 | 3379.1 | 3288.4 | 3262.0 | 3131.5 | 3002.8 | 3019.9 |
| 52.5° | 8360.0  | 10101.6 | 9324.3 | 5610.5 | 3379.1 | 3186.3 | 3038.8 | 2872.4 | 2628.4 | 2588.7 | 2602.0 |
| 55°   | 9154.2  | 10612.1 | 9222.2 | 4727.4 | 2999.0 | 2938.6 | 2715.4 | 2514.9 | 2488.5 | 2454.5 | 2460.1 |
| 57.5° | 10103.4 | 11162.4 | 9014.3 | 3742.2 | 2609.5 | 2649.2 | 2431.8 | 2454.5 | 2407.2 | 2354.2 | 2344.8 |
| 60°   | 11141.5 | 11731.5 | 8649.3 | 2844.0 | 2206.7 | 2288.1 | 2358.0 | 2356.2 | 2342.9 | 2299.4 | 2284.3 |
| 62.5° | 12075.7 | 12106.0 | 7930.7 | 2178.4 | 1853.1 | 2008.2 | 2199.2 | 2197.3 | 2185.9 | 2161.4 | 2151.9 |
| 65°   | 12631.7 | 12049.2 | 6731.8 | 1715.1 | 1561.9 | 1777.6 | 1983.6 | 1998.7 | 2000.6 | 1998.7 | 1998.7 |
| 67.5° | 12533.3 | 11385.5 | 5086.7 | 1365.3 | 1321.7 | 1543.0 | 1770.0 | 1790.8 | 1805.8 | 1809.6 | 1813.4 |
| 70°   | 11421.5 | 9927.5  | 3316.8 | 1089.2 | 1108.1 | 1336.9 | 1567.6 | 1588.4 | 1601.7 | 1616.7 | 1624.3 |
| 72.5° | 8902.6  | 7299.1  | 1898.5 | 881.2  | 920.9  | 1159.2 | 1367.1 | 1391.7 | 1399.3 | 1427.7 | 1439.0 |
| 75°   | 5425.2  | 4292.5  | 1024.9 | 694.0  | 756.3  | 990.9  | 1168.6 | 1197.0 | 1210.2 | 1244.2 | 1248.0 |
| 77.5° | 2579.3  | 1858.8  | 584.4  | 540.8  | 608.8  | 809.3  | 987.1  | 1019.3 | 983.3  | 1002.2 | 987.1  |
| 80°   | 871.8   | 690.2   | 368.7  | 412.3  | 465.1  | 631.6  | 790.4  | 822.6  | 746.9  | 743.1  | 735.5  |
| 82.5° | 304.4   | 279.8   | 234.5  | 274.2  | 300.6  | 451.9  | 597.6  | 639.2  | 556.0  | 554.0  | 527.6  |
| 85°   | 119.1   | 113.5   | 130.5  | 149.3  | 179.7  | 278.0  | 393.3  | 414.1  | 342.2  | 276.0  | 272.3  |
| 87.5° | 24.6    | 26.4    | 32.2   | 34.0   | 54.8   | 96.5   | 141.9  | 173.9  | 138.1  | 117.3  | 107.8  |
| 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)