

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: P968978

Luminaire Tested: **NVN-SB5C-835-U-T3**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P968978  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB5C-835-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 35990.8 lumens  
Efficiency: N/A  
Efficacy: 144.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
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



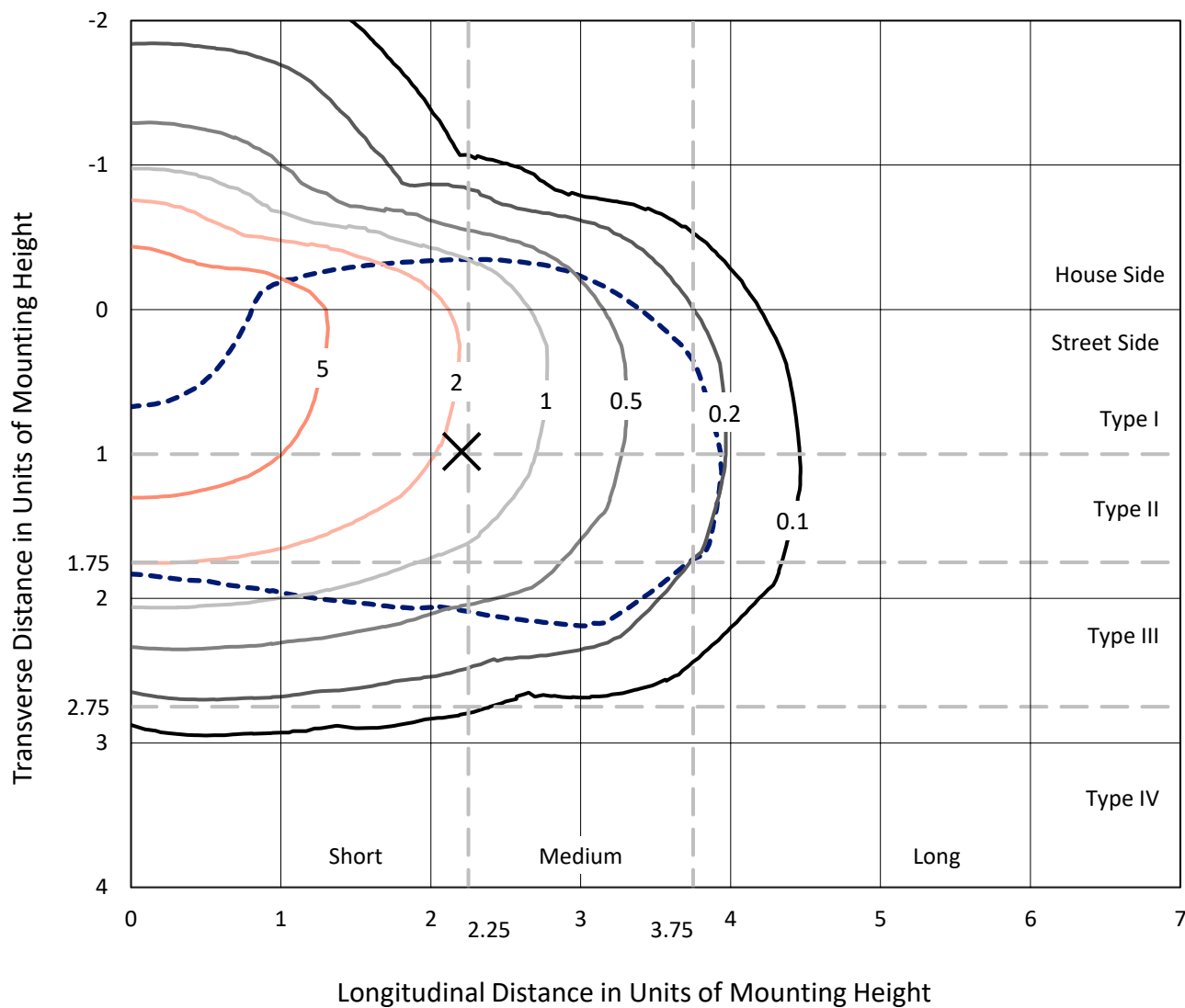
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

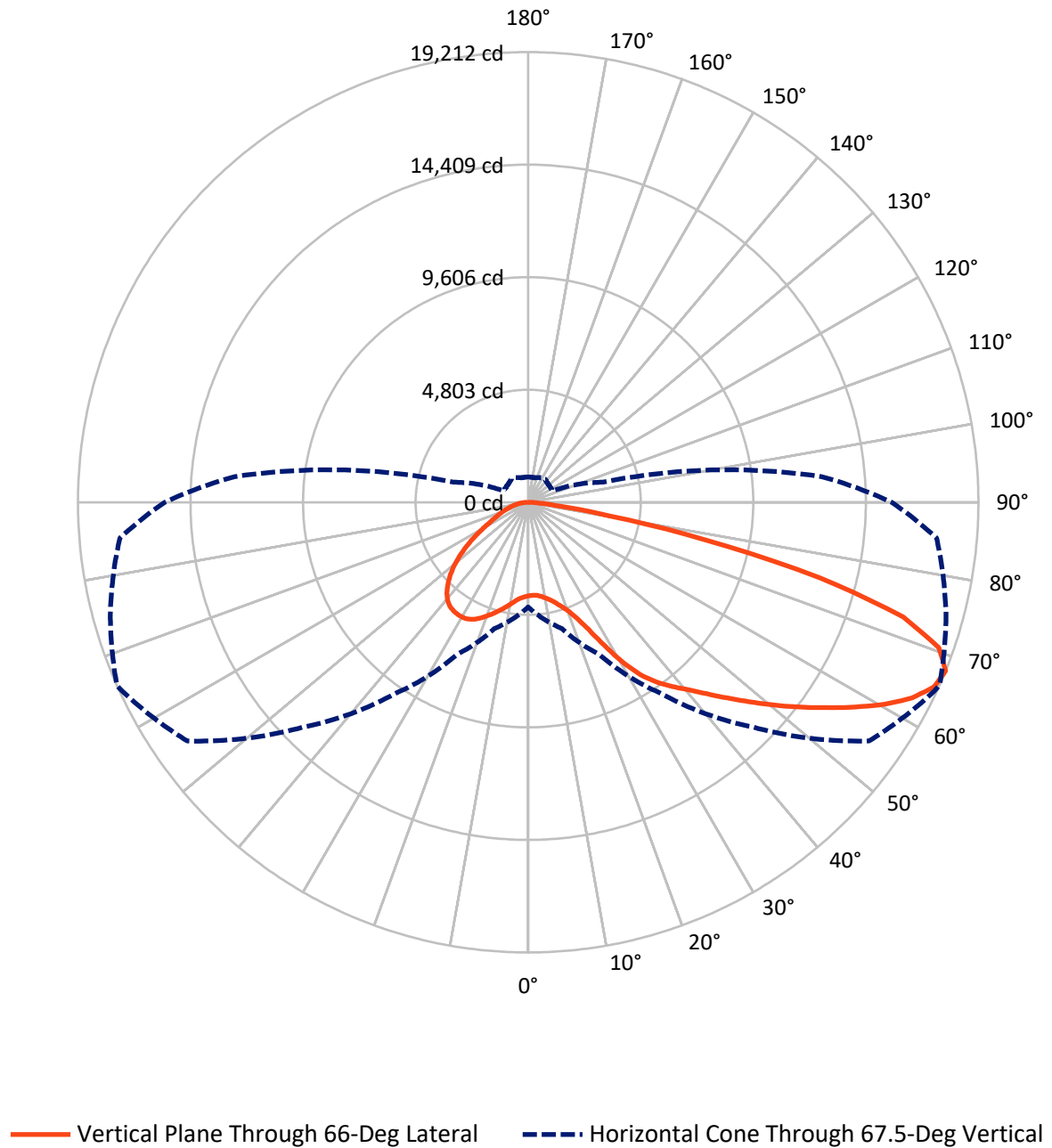


Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8949.0   | 0.0    | 8949.0  |
|                    | % Fixture | 24.9     | 0.0    | 24.9    |
| <b>Street Side</b> | Lumens    | 27041.8  | 0.0    | 27041.8 |
|                    | % Fixture | 75.1     | 0.0    | 75.1    |
| <b>Total</b>       | Lumens    | 35990.8  | 0.0    | 35990.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 395.8   | 1.1       |
| 10°-20°   | 1307.6  | 3.6       |
| 20°-30°   | 2520.3  | 7.0       |
| 30°-40°   | 4419.0  | 12.3      |
| 40°-50°   | 6569.7  | 18.3      |
| 50°-60°   | 8327.7  | 23.1      |
| 60°-70°   | 8148.5  | 22.6      |
| 70°-80°   | 3886.9  | 10.8      |
| 80°-90°   | 415.4   | 1.2       |
| 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°    | 35990.8 | 100.0     |
| 0°-180°   | 35990.8 | 100.0     |

**Coefficient of Utilization**



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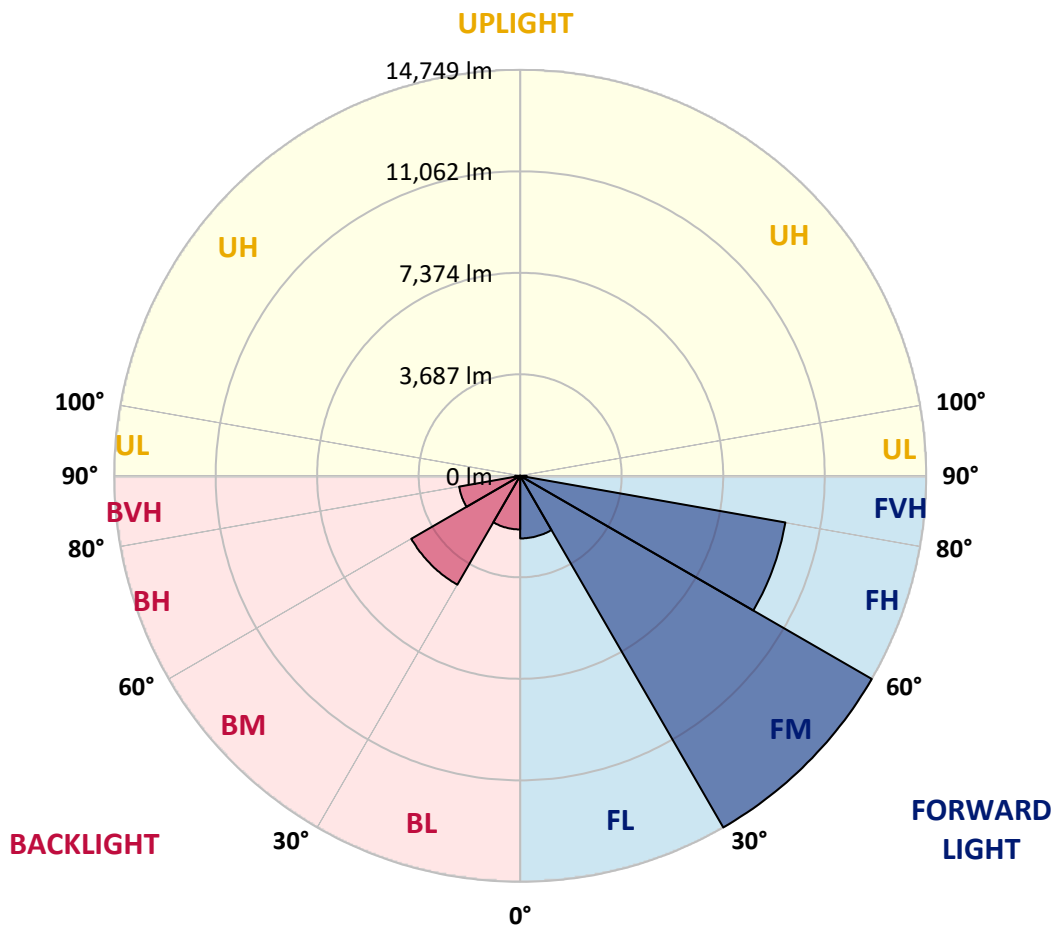
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2274.3  | 6.3       |                         |      |          |
| FM   | (30°-60°)   | 14748.7 | 41.0      |                         |      |          |
| FH   | (60°-80°)   | 9783.3  | 27.2      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 235.5   | 0.7       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1949.4  | 5.4       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 4567.7  | 12.7      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2252.0  | 6.3       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 179.9   | 0.5       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

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

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3991.9  | 3991.9  | 3991.9  | 3991.9  | 3991.9  | 3991.9  | 3991.9  | 3991.9  | 3991.9  | 3991.9  | 3991.9  |
| 2.5°  | 3950.2  | 3972.9  | 3967.3  | 3957.8  | 3955.9  | 3959.7  | 3965.4  | 3971.1  | 3969.2  | 3978.6  | 3993.7  |
| 5°    | 3938.9  | 3961.6  | 3959.7  | 3959.7  | 3967.3  | 3982.4  | 3991.9  | 4001.3  | 3991.9  | 4003.2  | 4024.0  |
| 7.5°  | 3946.5  | 3963.5  | 3971.1  | 3978.6  | 3997.5  | 4025.9  | 4048.5  | 4069.4  | 4058.1  | 4071.3  | 4097.7  |
| 10°   | 4042.9  | 4056.1  | 4063.7  | 4063.7  | 4076.9  | 4109.1  | 4131.8  | 4169.6  | 4160.2  | 4181.0  | 4215.0  |
| 12.5° | 4218.8  | 4232.0  | 4232.0  | 4224.4  | 4233.9  | 4254.7  | 4262.3  | 4303.9  | 4286.9  | 4320.9  | 4354.9  |
| 15°   | 4434.4  | 4460.8  | 4440.0  | 4426.8  | 4430.6  | 4451.4  | 4449.5  | 4481.6  | 4464.6  | 4493.0  | 4523.2  |
| 17.5° | 4672.6  | 4706.7  | 4672.6  | 4670.7  | 4663.1  | 4685.9  | 4687.7  | 4716.1  | 4685.9  | 4706.7  | 4727.4  |
| 20°   | 4954.3  | 5001.7  | 4973.3  | 4982.7  | 4965.7  | 4975.1  | 4984.6  | 5026.2  | 4978.9  | 4994.1  | 4988.4  |
| 22.5° | 5351.4  | 5408.2  | 5378.0  | 5413.8  | 5402.6  | 5395.0  | 5393.0  | 5466.8  | 5393.0  | 5398.8  | 5343.9  |
| 25°   | 5930.1  | 5998.2  | 5945.2  | 5994.4  | 5994.4  | 6019.0  | 6047.4  | 6141.9  | 6019.0  | 5983.0  | 5841.3  |
| 27.5° | 6784.9  | 6852.9  | 6748.9  | 6779.1  | 6769.7  | 6830.2  | 6800.0  | 7034.5  | 6902.0  | 6843.4  | 6558.0  |
| 30°   | 7813.6  | 7934.5  | 7737.9  | 7730.3  | 7720.9  | 7817.3  | 7860.8  | 8015.9  | 7881.6  | 7823.0  | 7478.8  |
| 32.5° | 8925.4  | 9052.1  | 8817.7  | 8749.6  | 8713.6  | 8772.3  | 8736.3  | 8861.1  | 8768.5  | 8677.8  | 8252.3  |
| 35°   | 10101.6 | 10226.4 | 10003.3 | 9871.0  | 9727.2  | 9604.2  | 9475.7  | 9507.8  | 9420.9  | 9282.8  | 8842.3  |
| 37.5° | 11213.5 | 11442.3 | 11205.9 | 11064.2 | 10799.4 | 10559.2 | 10200.0 | 10050.5 | 9969.3  | 9842.6  | 9398.1  |
| 40°   | 12346.2 | 12476.7 | 12297.0 | 12176.0 | 11888.6 | 11512.3 | 10937.5 | 10621.7 | 10512.0 | 10389.1 | 10012.7 |
| 42.5° | 13180.2 | 13304.9 | 13208.5 | 13125.3 | 12900.2 | 12463.5 | 11720.3 | 11325.1 | 11166.2 | 11028.2 | 10708.6 |
| 45°   | 13842.0 | 13934.7 | 13874.1 | 13904.3 | 13808.0 | 13384.3 | 12531.5 | 12079.6 | 11915.1 | 11746.8 | 11495.3 |
| 47.5° | 14108.6 | 14206.9 | 14303.4 | 14483.0 | 14647.6 | 14335.5 | 13403.3 | 12896.4 | 12722.5 | 12550.4 | 12302.7 |
| 50°   | 14078.4 | 14178.5 | 14458.4 | 14840.4 | 15351.0 | 15247.0 | 14322.3 | 13766.4 | 13605.6 | 13408.9 | 13180.2 |
| 52.5° | 13836.3 | 13949.7 | 14309.0 | 14944.4 | 15757.5 | 15929.6 | 15258.4 | 14664.6 | 14513.3 | 14278.8 | 14050.0 |
| 55°   | 13201.0 | 13269.0 | 13808.0 | 14708.0 | 15854.0 | 16406.1 | 16175.4 | 15621.4 | 15470.1 | 15142.9 | 14893.4 |
| 57.5° | 12022.8 | 12121.1 | 12906.0 | 14070.8 | 15611.9 | 16729.5 | 16981.0 | 16627.3 | 16481.8 | 16010.9 | 15749.9 |
| 60°   | 10485.4 | 10642.5 | 11540.7 | 13000.5 | 14995.4 | 16727.6 | 17712.8 | 17616.4 | 17495.3 | 16865.7 | 16593.3 |
| 62.5° | 8745.8  | 8927.3  | 9791.5  | 11487.7 | 13917.7 | 16253.0 | 18170.4 | 18444.6 | 18382.2 | 17654.2 | 17306.2 |
| 65°   | 6716.7  | 6841.6  | 7702.0  | 9530.6  | 12240.3 | 15233.8 | 18223.4 | 19010.1 | 19021.3 | 18253.6 | 17678.8 |
| 67.5° | 4472.2  | 4831.4  | 5578.4  | 7151.7  | 9993.9  | 13567.8 | 17758.2 | 19102.7 | 19212.4 | 18459.7 | 17491.5 |
| 70°   | 2182.2  | 2655.0  | 3386.7  | 4648.1  | 7151.7  | 11013.1 | 16542.3 | 18342.5 | 18586.4 | 17858.4 | 16375.9 |
| 72.5° | 905.8   | 1058.9  | 1458.0  | 2293.7  | 4105.3  | 7431.6  | 14099.2 | 16281.3 | 16733.3 | 15823.7 | 13768.2 |
| 75°   | 610.8   | 661.8   | 833.9   | 1176.2  | 1870.2  | 3664.7  | 10167.8 | 12140.1 | 12868.2 | 11951.0 | 9768.8  |
| 77.5° | 470.9   | 503.0   | 607.0   | 822.6   | 1111.9  | 1386.1  | 5442.2  | 7316.2  | 7692.5  | 7121.4  | 5083.0  |
| 80°   | 370.6   | 395.2   | 453.9   | 599.4   | 788.5   | 741.3   | 1855.0  | 3314.8  | 3532.4  | 2963.2  | 1633.8  |
| 82.5° | 321.4   | 331.0   | 325.2   | 406.5   | 523.8   | 433.1   | 608.8   | 1223.4  | 1350.1  | 979.5   | 533.3   |
| 85°   | 232.6   | 259.0   | 270.4   | 251.5   | 278.0   | 219.4   | 249.6   | 433.1   | 476.5   | 425.5   | 300.6   |
| 87.5° | 94.5    | 139.9   | 172.1   | 162.7   | 102.1   | 62.4    | 77.5    | 126.7   | 145.7   | 158.9   | 98.3    |
| 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°    | 3991.9  | 3991.9  | 3991.9 | 3991.9 | 3991.9 | 3991.9 | 3991.9 | 3991.9 | 3991.9 | 3991.9 | 3991.9 |
| 2.5°  | 3995.7  | 4008.9  | 4018.3 | 4029.7 | 4037.3 | 4048.5 | 4071.3 | 4084.5 | 4086.4 | 4095.9 | 4094.0 |
| 5°    | 4031.5  | 4050.5  | 4071.3 | 4101.5 | 4135.6 | 4164.0 | 4207.4 | 4237.7 | 4249.0 | 4258.5 | 4256.6 |
| 7.5°  | 4109.1  | 4135.6  | 4173.4 | 4226.4 | 4275.5 | 4313.3 | 4366.3 | 4402.2 | 4438.1 | 4451.4 | 4453.2 |
| 10°   | 4224.4  | 4262.3  | 4317.1 | 4388.9 | 4441.9 | 4491.0 | 4545.9 | 4576.2 | 4612.1 | 4627.3 | 4634.7 |
| 12.5° | 4368.1  | 4407.9  | 4479.8 | 4579.9 | 4629.1 | 4663.1 | 4682.1 | 4674.5 | 4682.1 | 4695.3 | 4699.1 |
| 15°   | 4532.7  | 4576.2  | 4657.5 | 4765.2 | 4799.4 | 4769.0 | 4727.4 | 4689.6 | 4683.9 | 4687.7 | 4701.0 |
| 17.5° | 4727.4  | 4759.6  | 4854.2 | 4944.9 | 4920.3 | 4795.6 | 4704.8 | 4644.3 | 4614.0 | 4604.5 | 4617.7 |
| 20°   | 4999.7  | 4999.7  | 5077.2 | 5134.0 | 4969.5 | 4757.7 | 4615.9 | 4517.6 | 4455.2 | 4428.7 | 4423.0 |
| 22.5° | 5330.7  | 5300.4  | 5349.6 | 5309.9 | 4960.1 | 4651.9 | 4455.2 | 4284.9 | 4190.4 | 4152.6 | 4146.9 |
| 25°   | 5750.5  | 5714.6  | 5701.3 | 5455.5 | 4891.9 | 4483.6 | 4164.0 | 3957.8 | 3874.6 | 3853.8 | 3857.6 |
| 27.5° | 6383.9  | 6293.2  | 6121.1 | 5534.9 | 4767.2 | 4218.8 | 3823.6 | 3632.6 | 3585.3 | 3587.2 | 3592.8 |
| 30°   | 7227.3  | 7045.7  | 6624.1 | 5548.1 | 4562.9 | 3844.4 | 3475.6 | 3339.4 | 3316.8 | 3326.2 | 3358.4 |
| 32.5° | 8008.3  | 7836.2  | 7138.4 | 5487.6 | 4249.0 | 3477.5 | 3163.6 | 3072.8 | 3038.8 | 3050.2 | 3065.3 |
| 35°   | 8621.0  | 8573.7  | 7614.9 | 5402.6 | 3863.2 | 3133.3 | 2883.7 | 2806.2 | 2740.0 | 2724.9 | 2736.2 |
| 37.5° | 9199.6  | 9180.7  | 7972.3 | 5283.4 | 3481.3 | 2889.4 | 2658.7 | 2556.6 | 2460.2 | 2407.2 | 2409.1 |
| 40°   | 9835.0  | 9816.1  | 8206.9 | 5100.0 | 3142.9 | 2677.6 | 2456.4 | 2322.1 | 2203.0 | 2106.6 | 2116.0 |
| 42.5° | 10549.8 | 10438.2 | 8318.4 | 4837.1 | 2855.3 | 2498.0 | 2291.9 | 2110.4 | 1953.3 | 1864.5 | 1870.2 |
| 45°   | 11330.8 | 11079.2 | 8316.5 | 4502.4 | 2613.3 | 2333.5 | 2116.0 | 1858.8 | 1713.2 | 1630.1 | 1626.3 |
| 47.5° | 12159.0 | 11692.0 | 8214.5 | 4131.8 | 2378.8 | 2151.9 | 1843.7 | 1647.1 | 1550.6 | 1499.6 | 1488.2 |
| 50°   | 13013.7 | 12264.9 | 8040.4 | 3706.3 | 2138.7 | 1945.9 | 1673.5 | 1539.2 | 1465.5 | 1418.2 | 1401.2 |
| 52.5° | 13817.4 | 12784.9 | 7830.6 | 3224.1 | 1894.7 | 1745.4 | 1597.9 | 1493.8 | 1416.3 | 1363.4 | 1340.7 |
| 55°   | 14564.3 | 13233.1 | 7533.6 | 2730.6 | 1696.2 | 1611.1 | 1562.0 | 1475.0 | 1386.1 | 1323.7 | 1299.1 |
| 57.5° | 15228.0 | 13524.3 | 7021.2 | 2267.3 | 1554.4 | 1518.4 | 1524.2 | 1442.8 | 1340.7 | 1287.7 | 1253.7 |
| 60°   | 15780.2 | 13738.0 | 6263.0 | 1838.0 | 1439.0 | 1427.7 | 1465.5 | 1382.3 | 1263.2 | 1202.6 | 1176.2 |
| 62.5° | 16111.2 | 13734.2 | 5332.6 | 1505.2 | 1340.7 | 1344.5 | 1388.0 | 1306.7 | 1185.6 | 1128.9 | 1111.9 |
| 65°   | 16082.8 | 13397.6 | 4311.5 | 1287.7 | 1246.2 | 1250.0 | 1306.7 | 1223.4 | 1121.4 | 1087.3 | 1085.4 |
| 67.5° | 15513.6 | 12577.0 | 3307.4 | 1145.9 | 1142.2 | 1159.2 | 1225.4 | 1166.8 | 1081.7 | 1077.9 | 1083.5 |
| 70°   | 13972.5 | 10873.1 | 2382.6 | 1032.5 | 1034.3 | 1058.9 | 1145.9 | 1130.8 | 1060.9 | 1068.4 | 1066.5 |
| 72.5° | 11204.1 | 8290.1  | 1599.8 | 913.4  | 915.2  | 955.0  | 1070.3 | 1102.5 | 1040.1 | 1140.2 | 1155.4 |
| 75°   | 7461.8  | 5169.9  | 1028.7 | 786.7  | 788.5  | 839.6  | 1004.1 | 1047.7 | 983.3  | 1136.5 | 1145.9 |
| 77.5° | 3585.3  | 2324.0  | 745.1  | 661.8  | 661.8  | 709.1  | 868.0  | 937.9  | 837.7  | 883.0  | 809.3  |
| 80°   | 1238.6  | 873.6   | 586.2  | 533.3  | 521.9  | 554.0  | 731.8  | 813.1  | 722.3  | 665.6  | 624.0  |
| 82.5° | 487.9   | 453.9   | 470.9  | 414.1  | 376.3  | 397.1  | 569.2  | 671.3  | 531.4  | 480.3  | 478.4  |
| 85°   | 279.8   | 295.0   | 332.8  | 274.2  | 217.5  | 244.0  | 417.9  | 482.2  | 400.9  | 353.6  | 361.2  |
| 87.5° | 75.6    | 104.0   | 153.1  | 141.9  | 98.3   | 104.0  | 198.5  | 266.6  | 230.7  | 177.7  | 183.5  |
| 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)