

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: P968357

Luminaire Tested: **NVN-SB5B-760-U-T3R**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P968357  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB5B-760-U-T3R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 5700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 31666.3 lumens  
Efficiency: N/A  
Efficacy: 173.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
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

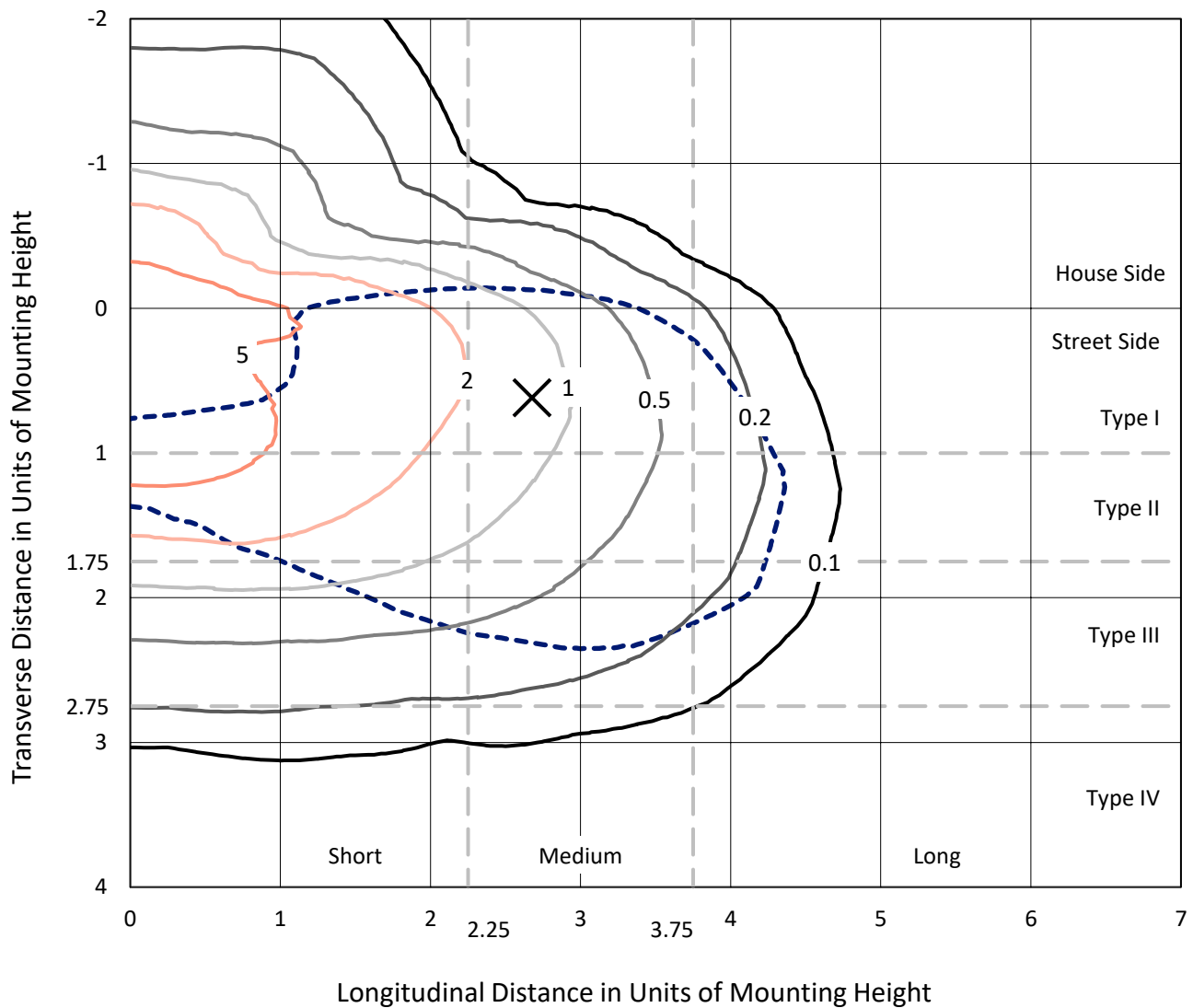


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## Iso-Footcandle Lines of Horizontal Illumination

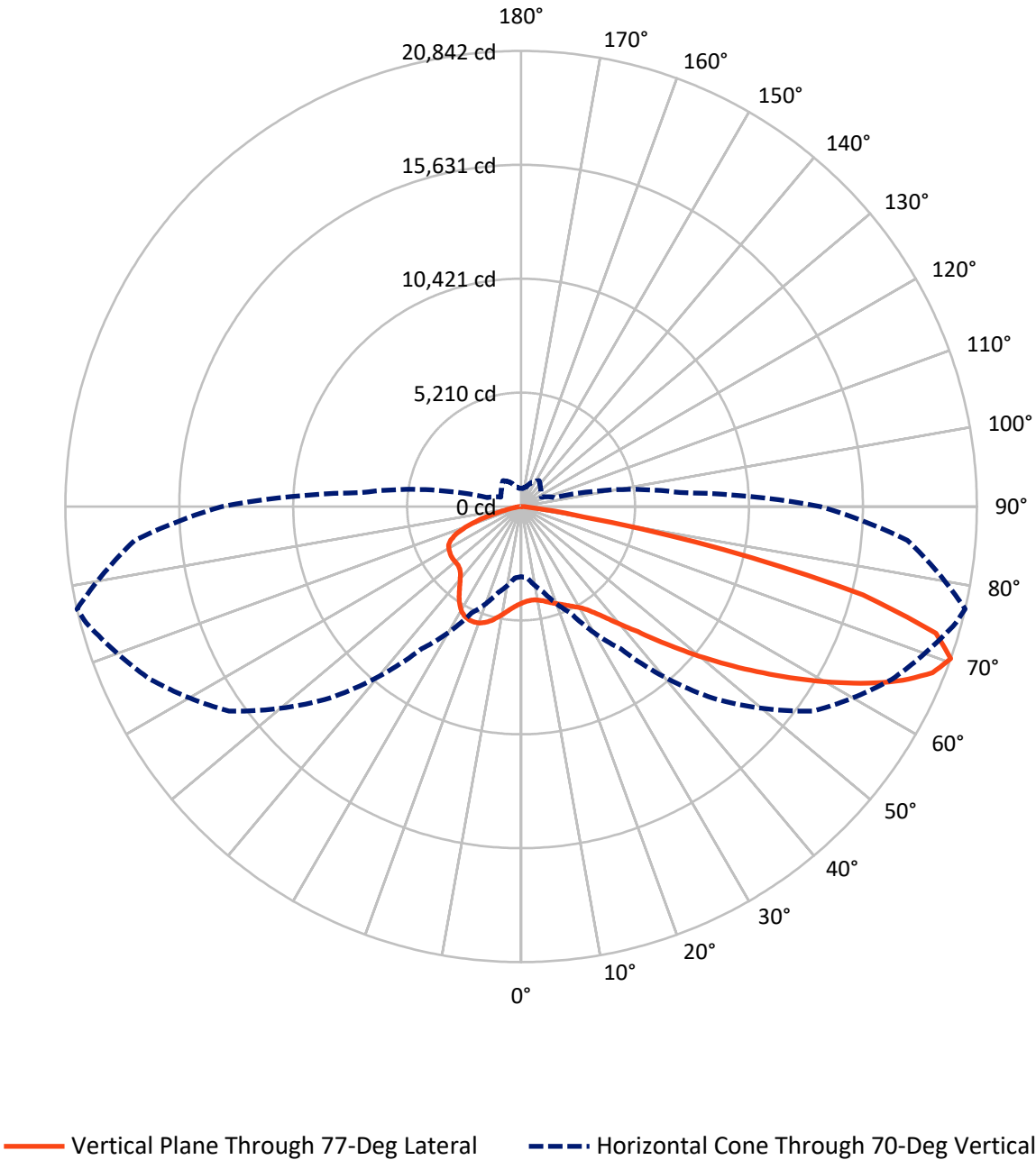
× Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
Type III - 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    | 6934.4   | 0.0    | 6934.4  |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 24731.9  | 0.0    | 24731.9 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 31666.3  | 0.0    | 31666.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 421.3   | 1.3       |
| 10°-20°   | 1216.0  | 3.8       |
| 20°-30°   | 2079.6  | 6.6       |
| 30°-40°   | 3344.1  | 10.6      |
| 40°-50°   | 5221.1  | 16.5      |
| 50°-60°   | 6974.1  | 22.0      |
| 60°-70°   | 7433.3  | 23.5      |
| 70°-80°   | 4575.9  | 14.5      |
| 80°-90°   | 401.0   | 1.3       |
| 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°    | 31666.3 | 100.0     |
| 0°-180°   | 31666.3 | 100.0     |

**Coefficient of Utilization**



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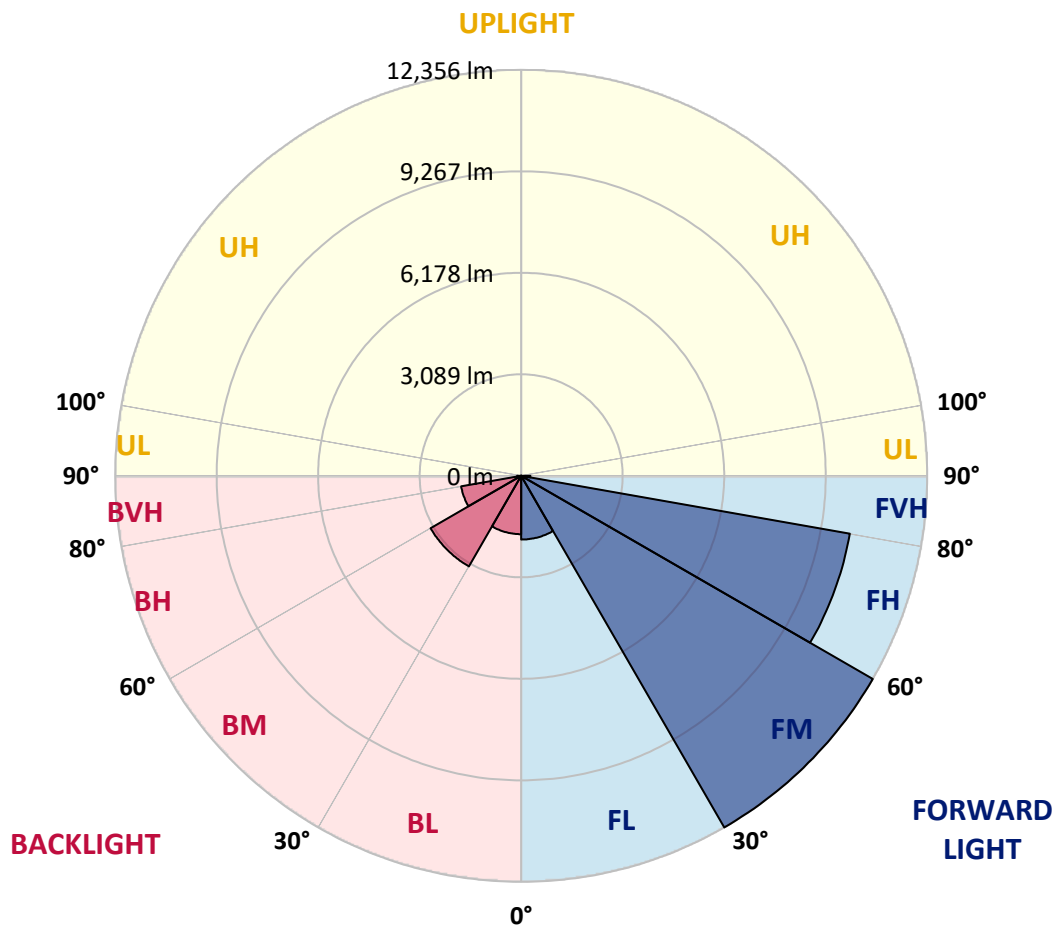
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1940.1  | 6.1       |                         |      |          |
| FM   | (30°-60°)   | 12355.5 | 39.0      |                         |      |          |
| FH   | (60°-80°)   | 10155.9 | 32.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 280.4   | 0.9       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1776.8  | 5.6       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3183.8  | 10.1      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1853.3  | 5.9       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 120.6   | 0.4       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

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

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4417.8  | 4417.8  | 4417.8  | 4417.8  | 4417.8  | 4417.8  | 4417.8  | 4417.8  | 4417.8  | 4417.8  | 4417.8  |
| 2.5°  | 4072.3  | 4070.7  | 4091.8  | 4098.3  | 4137.2  | 4164.8  | 4216.6  | 4271.8  | 4343.1  | 4351.2  | 4395.0  |
| 5°    | 3837.2  | 3837.2  | 3861.5  | 3887.4  | 3937.7  | 3992.9  | 4072.3  | 4168.0  | 4291.3  | 4310.7  | 4419.4  |
| 7.5°  | 3637.6  | 3650.6  | 3671.8  | 3722.0  | 3780.4  | 3859.8  | 3981.5  | 4117.7  | 4279.9  | 4310.7  | 4485.8  |
| 10°   | 3477.1  | 3491.7  | 3517.7  | 3558.2  | 3645.8  | 3756.0  | 3915.0  | 4090.2  | 4307.5  | 4356.1  | 4583.2  |
| 12.5° | 3426.9  | 3441.4  | 3456.0  | 3486.8  | 3567.9  | 3697.7  | 3887.4  | 4103.1  | 4374.0  | 4422.6  | 4716.1  |
| 15°   | 3543.6  | 3561.5  | 3550.1  | 3542.0  | 3584.1  | 3702.5  | 3900.4  | 4150.1  | 4456.7  | 4526.4  | 4879.9  |
| 17.5° | 3812.8  | 3819.4  | 3793.3  | 3717.2  | 3710.6  | 3773.8  | 3962.0  | 4215.0  | 4560.4  | 4636.7  | 5045.4  |
| 20°   | 4247.5  | 4236.1  | 4182.6  | 4031.7  | 3945.8  | 3932.8  | 4067.4  | 4312.3  | 4667.5  | 4748.6  | 5223.8  |
| 22.5° | 4837.8  | 4824.8  | 4717.8  | 4479.4  | 4288.0  | 4161.5  | 4219.9  | 4438.9  | 4787.5  | 4878.3  | 5397.3  |
| 25°   | 5574.1  | 5556.2  | 5398.9  | 5074.6  | 4777.7  | 4464.8  | 4427.5  | 4605.8  | 4935.1  | 5019.4  | 5579.0  |
| 27.5° | 6433.6  | 6419.1  | 6248.7  | 5820.6  | 5392.4  | 4879.9  | 4685.4  | 4802.1  | 5089.1  | 5184.9  | 5783.3  |
| 30°   | 7358.1  | 7400.2  | 7098.5  | 6638.0  | 6096.3  | 5421.6  | 5032.4  | 5043.7  | 5288.7  | 5374.6  | 6031.4  |
| 32.5° | 8444.7  | 8517.6  | 8154.4  | 7570.5  | 6831.0  | 6010.3  | 5470.3  | 5381.0  | 5579.0  | 5650.3  | 6344.4  |
| 35°   | 9521.5  | 9604.2  | 9302.6  | 8657.0  | 7805.7  | 6704.4  | 5927.7  | 5768.7  | 5964.9  | 6042.8  | 6759.6  |
| 37.5° | 10452.4 | 10562.7 | 10407.0 | 9845.8  | 8848.4  | 7541.3  | 6524.4  | 6224.4  | 6440.1  | 6537.4  | 7317.5  |
| 40°   | 11187.1 | 11355.8 | 11344.4 | 10994.0 | 10077.8 | 8556.5  | 7281.8  | 6787.1  | 7030.5  | 7135.8  | 7993.8  |
| 42.5° | 11783.9 | 11929.9 | 12056.4 | 12038.5 | 11360.6 | 9709.6  | 8172.2  | 7518.6  | 7703.5  | 7825.2  | 8754.4  |
| 45°   | 12195.9 | 12351.6 | 12624.0 | 12917.6 | 12594.8 | 10943.8 | 9192.3  | 8386.2  | 8555.0  | 8738.2  | 9660.9  |
| 47.5° | 12563.9 | 12740.7 | 13094.3 | 13559.7 | 13642.4 | 12182.8 | 10309.7 | 9396.6  | 9550.7  | 9740.5  | 10570.8 |
| 50°   | 12596.4 | 12748.8 | 13297.0 | 13957.1 | 14386.9 | 13373.3 | 11509.8 | 10530.2 | 10674.6 | 10877.3 | 11545.5 |
| 52.5° | 11813.1 | 12053.1 | 13009.9 | 13945.7 | 14729.0 | 14369.1 | 12701.8 | 11709.3 | 11871.4 | 12114.8 | 12554.2 |
| 55°   | 9169.5  | 9521.5  | 12168.3 | 13511.1 | 14607.4 | 15012.9 | 13835.4 | 12963.0 | 13170.5 | 13425.1 | 13569.5 |
| 57.5° | 7898.1  | 8052.2  | 9659.4  | 12719.6 | 14052.7 | 15179.9 | 14792.3 | 14229.6 | 14563.6 | 14842.6 | 14643.2 |
| 60°   | 7098.5  | 7226.7  | 8177.0  | 11488.7 | 13323.0 | 14915.6 | 15531.8 | 15410.3 | 15987.5 | 16320.0 | 15741.0 |
| 62.5° | 6242.2  | 6363.9  | 7228.3  | 9592.9  | 12388.9 | 14476.1 | 15998.9 | 16500.0 | 17447.1 | 17810.5 | 16775.8 |
| 65°   | 5392.4  | 5496.3  | 6325.0  | 8060.3  | 11201.7 | 14036.6 | 16240.6 | 17442.3 | 18798.1 | 19174.4 | 17635.3 |
| 67.5° | 4445.3  | 4531.3  | 5314.6  | 6800.2  | 9758.3  | 13434.9 | 16360.5 | 18183.5 | 19973.9 | 20296.6 | 18060.2 |
| 70°   | 3207.9  | 3274.4  | 4083.7  | 5377.9  | 7946.7  | 12400.1 | 16312.0 | 18708.9 | 20583.7 | 20841.5 | 17739.1 |
| 72.5° | 1516.4  | 1576.3  | 2526.7  | 3491.7  | 5613.0  | 10385.9 | 15327.5 | 18292.1 | 19964.2 | 19836.1 | 15773.5 |
| 75°   | 809.2   | 861.2   | 1451.5  | 1915.3  | 2964.6  | 7119.6  | 12542.9 | 15757.2 | 16764.4 | 16141.6 | 11657.4 |
| 77.5° | 548.2   | 588.7   | 898.5   | 1149.8  | 1354.2  | 3379.8  | 8061.9  | 10909.8 | 10496.2 | 9468.0  | 5838.4  |
| 80°   | 434.6   | 476.8   | 736.3   | 778.5   | 655.2   | 1221.2  | 3331.1  | 5050.3  | 3627.9  | 2901.4  | 1660.7  |
| 82.5° | 334.0   | 381.1   | 619.5   | 564.4   | 356.8   | 501.1   | 969.9   | 1597.5  | 929.3   | 707.1   | 402.2   |
| 85°   | 204.4   | 254.6   | 486.6   | 360.1   | 201.1   | 228.7   | 329.2   | 444.3   | 283.8   | 236.8   | 144.3   |
| 87.5° | 103.8   | 146.0   | 246.5   | 131.4   | 90.8    | 53.5    | 87.5    | 87.5    | 74.6    | 64.9    | 37.3    |
| 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°    | 4417.8  | 4417.8 | 4417.8 | 4417.8 | 4417.8 | 4417.8 | 4417.8 | 4417.8 | 4417.8 | 4417.8 | 4417.8 |
| 2.5°  | 4433.9  | 4466.4 | 4521.6 | 4573.4 | 4613.9 | 4652.9 | 4691.8 | 4713.0 | 4719.4 | 4745.3 | 4759.9 |
| 5°    | 4485.8  | 4545.9 | 4652.9 | 4753.4 | 4816.7 | 4855.6 | 4883.2 | 4899.4 | 4902.7 | 4910.8 | 4923.8 |
| 7.5°  | 4581.5  | 4677.3 | 4826.4 | 4927.0 | 4974.0 | 4970.7 | 4959.5 | 4918.9 | 4902.7 | 4888.0 | 4891.3 |
| 10°   | 4716.1  | 4842.6 | 5025.9 | 5095.7 | 5066.5 | 4988.6 | 4888.0 | 4769.6 | 4714.5 | 4661.0 | 4644.8 |
| 12.5° | 4883.2  | 5043.7 | 5223.8 | 5220.5 | 5076.2 | 4876.7 | 4643.1 | 4461.5 | 4346.4 | 4263.7 | 4244.2 |
| 15°   | 5085.9  | 5270.8 | 5408.6 | 5298.3 | 4982.1 | 4623.7 | 4281.5 | 4044.8 | 3940.9 | 3850.1 | 3840.4 |
| 17.5° | 5295.2  | 5493.0 | 5556.2 | 5274.0 | 4745.3 | 4249.0 | 3861.5 | 3674.9 | 3572.8 | 3524.2 | 3538.7 |
| 20°   | 5499.4  | 5695.7 | 5643.9 | 5134.5 | 4385.4 | 3824.2 | 3478.7 | 3376.6 | 3355.4 | 3366.8 | 3362.0 |
| 22.5° | 5715.2  | 5890.4 | 5661.7 | 4865.4 | 3926.4 | 3389.6 | 3199.7 | 3203.0 | 3250.1 | 3284.1 | 3292.2 |
| 25°   | 5935.8  | 6054.2 | 5614.6 | 4476.2 | 3433.3 | 3070.1 | 3023.0 | 3074.9 | 3167.4 | 3233.9 | 3251.7 |
| 27.5° | 6148.2  | 6200.1 | 5512.4 | 3994.4 | 3010.0 | 2841.4 | 2849.5 | 2956.5 | 3096.0 | 3188.5 | 3211.1 |
| 30°   | 6388.2  | 6329.8 | 5316.3 | 3452.8 | 2716.5 | 2645.1 | 2713.3 | 2838.1 | 2977.6 | 3060.3 | 3079.8 |
| 32.5° | 6659.0  | 6441.7 | 5004.9 | 2951.7 | 2508.9 | 2487.8 | 2599.7 | 2680.8 | 2742.5 | 2766.8 | 2779.7 |
| 35°   | 6996.3  | 6599.1 | 4605.8 | 2599.7 | 2322.4 | 2372.7 | 2479.7 | 2439.2 | 2414.8 | 2401.9 | 2414.8 |
| 37.5° | 7434.2  | 6811.5 | 4138.8 | 2371.0 | 2171.6 | 2290.0 | 2333.7 | 2207.2 | 2111.6 | 2064.6 | 2075.9 |
| 40°   | 7961.4  | 7122.9 | 3689.6 | 2194.3 | 2075.9 | 2218.6 | 2142.4 | 1989.9 | 1868.3 | 1801.8 | 1806.7 |
| 42.5° | 8546.9  | 7448.9 | 3311.7 | 2061.3 | 2022.3 | 2160.2 | 2001.3 | 1819.7 | 1623.4 | 1602.3 | 1623.4 |
| 45°   | 9161.4  | 7784.6 | 3053.8 | 1959.1 | 1996.4 | 2110.0 | 1920.2 | 1626.7 | 1487.2 | 1573.2 | 1618.6 |
| 47.5° | 9776.1  | 8092.7 | 2898.1 | 1882.9 | 1983.5 | 2053.2 | 1848.8 | 1519.6 | 1420.6 | 1545.6 | 1603.9 |
| 50°   | 10460.5 | 8368.4 | 2828.4 | 1827.8 | 1968.8 | 2030.5 | 1741.8 | 1492.1 | 1350.9 | 1433.7 | 1495.3 |
| 52.5° | 11140.0 | 8582.5 | 2776.5 | 1772.6 | 1947.8 | 2012.6 | 1689.9 | 1459.6 | 1266.6 | 1271.5 | 1305.5 |
| 55°   | 11817.9 | 8721.9 | 2719.7 | 1699.7 | 1900.8 | 1973.7 | 1685.0 | 1423.9 | 1203.4 | 1180.7 | 1196.9 |
| 57.5° | 12541.3 | 8801.5 | 2650.0 | 1618.6 | 1819.7 | 1874.8 | 1680.2 | 1396.4 | 1183.9 | 1146.6 | 1151.5 |
| 60°   | 13277.5 | 8918.2 | 2559.2 | 1519.6 | 1711.0 | 1756.4 | 1668.8 | 1386.6 | 1172.6 | 1109.3 | 1114.2 |
| 62.5° | 13937.6 | 8958.7 | 2450.5 | 1425.6 | 1571.5 | 1639.6 | 1644.5 | 1378.5 | 1141.7 | 1033.1 | 1033.1 |
| 65°   | 14370.6 | 8783.6 | 2260.7 | 1318.6 | 1420.6 | 1519.6 | 1597.5 | 1350.9 | 1086.6 | 978.0  | 978.0  |
| 67.5° | 14352.8 | 8284.0 | 1964.0 | 1180.7 | 1274.7 | 1386.6 | 1529.3 | 1303.9 | 1020.1 | 909.8  | 914.7  |
| 70°   | 13684.7 | 7298.0 | 1587.7 | 1020.1 | 1114.2 | 1243.9 | 1441.8 | 1234.2 | 940.6  | 835.2  | 844.9  |
| 72.5° | 11736.9 | 5711.9 | 1153.1 | 832.0  | 927.6  | 1096.3 | 1328.2 | 1149.8 | 859.6  | 768.7  | 763.8  |
| 75°   | 8384.6  | 3615.0 | 781.7  | 639.0  | 721.7  | 929.3  | 1187.2 | 1050.9 | 784.9  | 771.9  | 728.2  |
| 77.5° | 4283.2  | 1727.2 | 517.3  | 467.1  | 502.8  | 733.1  | 997.4  | 939.0  | 796.3  | 637.3  | 567.6  |
| 80°   | 1393.1  | 637.3  | 326.0  | 317.9  | 334.0  | 488.2  | 771.9  | 770.4  | 603.3  | 433.1  | 382.7  |
| 82.5° | 444.3   | 274.1  | 212.5  | 204.4  | 196.2  | 306.5  | 538.4  | 609.8  | 407.0  | 274.1  | 272.4  |
| 85°   | 176.8   | 163.8  | 124.8  | 115.1  | 82.7   | 144.3  | 282.2  | 405.5  | 303.3  | 197.8  | 202.7  |
| 87.5° | 64.9    | 64.9   | 34.0   | 24.3   | 17.8   | 48.7   | 76.3   | 121.7  | 173.5  | 102.2  | 100.6  |
| 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)