

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: P967258

Luminaire Tested: **NVN-SB4D-750-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967258  
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-SB4D-750-U-SL4  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

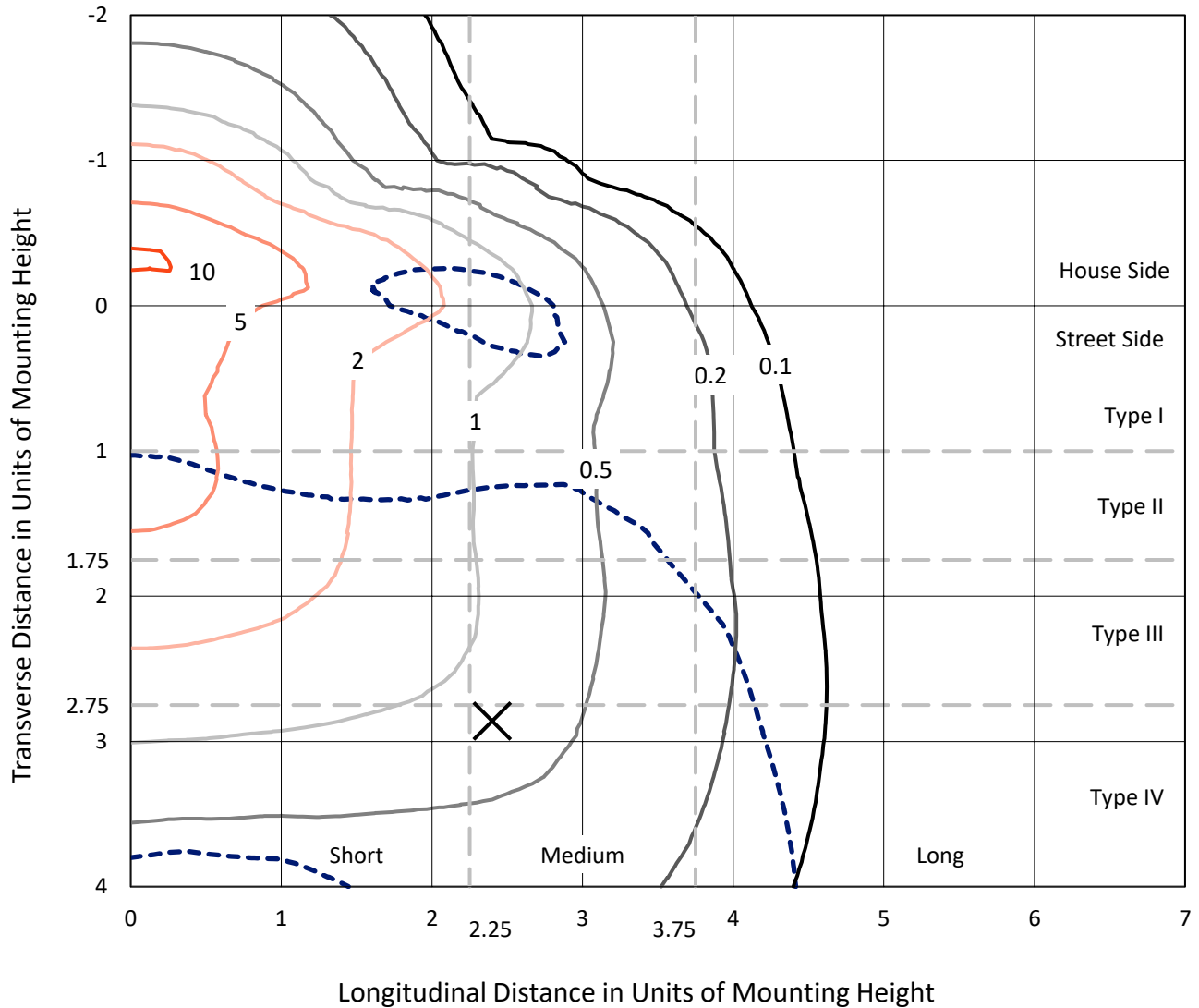
Lumens per Lamp: N/A  
Luminaire Lumens: 43840.3 lumens  
Efficiency: N/A  
Efficacy: 149.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

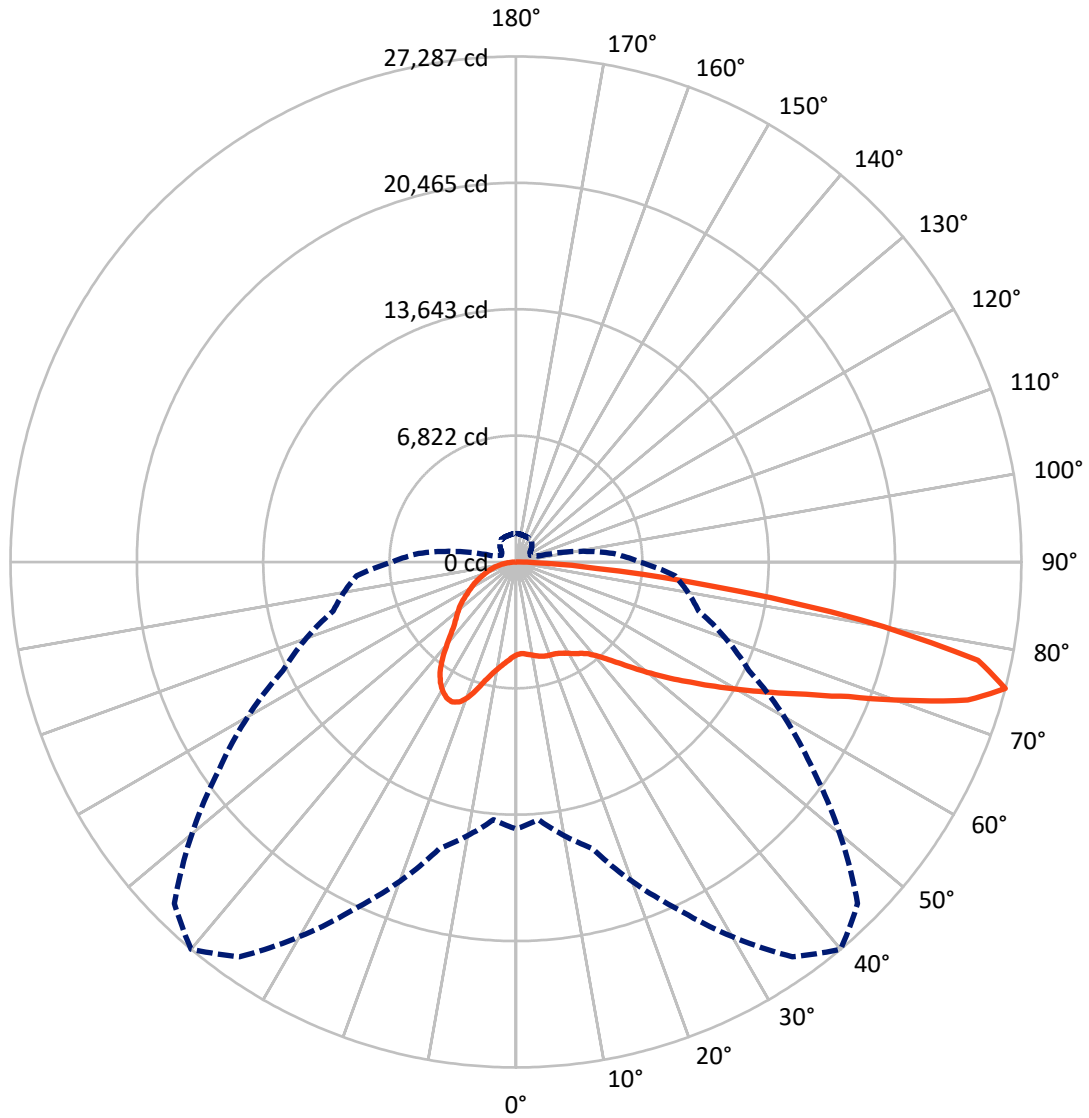
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13583.2  | 0.0    | 13583.2 |
|                    | % Fixture | 31.0     | 0.0    | 31.0    |
| <b>Street Side</b> | Lumens    | 30257.1  | 0.0    | 30257.1 |
|                    | % Fixture | 69.0     | 0.0    | 69.0    |
| <b>Total</b>       | Lumens    | 43840.3  | 0.0    | 43840.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 500.4   | 1.1       |
| 10°-20°   | 1680.1  | 3.8       |
| 20°-30°   | 3067.8  | 7.0       |
| 30°-40°   | 4350.9  | 9.9       |
| 40°-50°   | 5875.0  | 13.4      |
| 50°-60°   | 7903.5  | 18.0      |
| 60°-70°   | 10031.4 | 22.9      |
| 70°-80°   | 9104.1  | 20.8      |
| 80°-90°   | 1327.1  | 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°    | 43840.3 | 100.0     |
| 0°-180°   | 43840.3 | 100.0     |

**Coefficient of Utilization**



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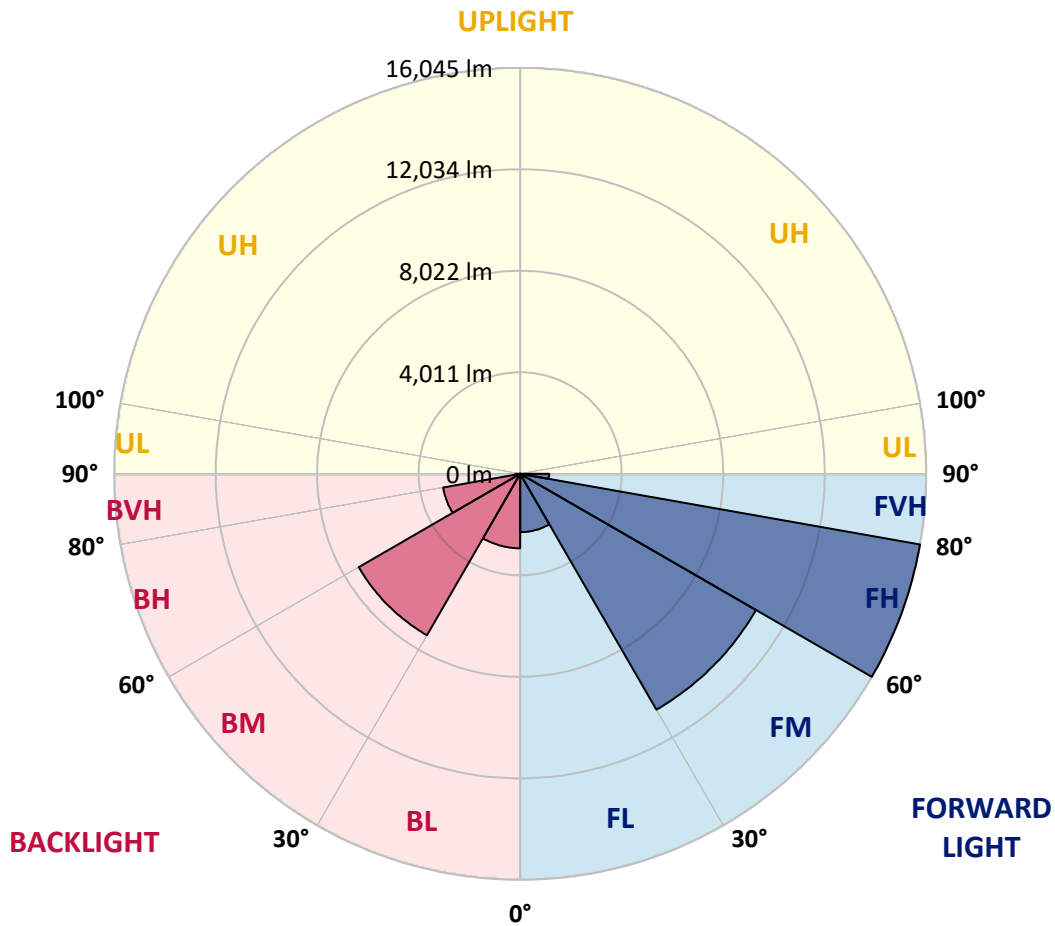
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2306.0  | 5.3       |                         |      |         |
| FM (30°-60°)   | 10761.8 | 24.5      |                         |      |         |
| FH (60°-80°)   | 16044.9 | 36.6      |                         |      | G5      |
| FVH (80°-90°)  | 1144.4  | 2.6       |                         |      | G5      |
| BL (0°-30°)    | 2942.2  | 6.7       | B4/5000                 |      |         |
| BM (30°-60°)   | 7367.7  | 16.8      | B4/8500                 |      |         |
| BH (60°-80°)   | 3090.6  | 7.0       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 182.7   | 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°    | 5013.2  | 5013.2  | 5013.2  | 5013.2  | 5013.2  | 5013.2  | 5013.2  | 5013.2  | 5013.2  | 5013.2  | 5013.2  |
| 2.5°  | 4936.5  | 4964.4  | 4957.4  | 4948.1  | 4948.1  | 4950.4  | 4948.1  | 4964.4  | 4980.7  | 4996.9  | 5022.5  |
| 5°    | 4987.6  | 5015.5  | 5001.6  | 4989.9  | 4980.7  | 4978.3  | 4971.4  | 4969.0  | 4978.3  | 4999.2  | 5034.1  |
| 7.5°  | 5087.6  | 5115.5  | 5094.6  | 5073.6  | 5055.1  | 5045.8  | 5036.4  | 5022.5  | 5015.5  | 5027.1  | 5076.0  |
| 10°   | 5199.2  | 5227.1  | 5201.6  | 5164.4  | 5134.1  | 5122.4  | 5113.2  | 5099.3  | 5089.9  | 5096.9  | 5150.4  |
| 12.5° | 5310.8  | 5338.7  | 5303.9  | 5252.7  | 5213.2  | 5206.2  | 5194.6  | 5189.9  | 5187.6  | 5185.3  | 5238.8  |
| 15°   | 5415.5  | 5438.8  | 5394.6  | 5334.1  | 5292.2  | 5280.6  | 5269.0  | 5276.0  | 5287.6  | 5301.5  | 5362.0  |
| 17.5° | 5496.9  | 5520.1  | 5454.9  | 5375.9  | 5336.4  | 5331.7  | 5324.8  | 5348.0  | 5380.5  | 5415.5  | 5489.9  |
| 20°   | 5571.3  | 5594.4  | 5510.8  | 5403.8  | 5357.4  | 5357.4  | 5359.6  | 5408.5  | 5454.9  | 5506.1  | 5608.5  |
| 22.5° | 5675.8  | 5694.5  | 5592.2  | 5445.7  | 5378.3  | 5382.9  | 5401.5  | 5450.3  | 5508.5  | 5578.3  | 5720.0  |
| 25°   | 5831.6  | 5845.6  | 5720.0  | 5524.7  | 5448.0  | 5461.9  | 5478.2  | 5501.5  | 5557.3  | 5638.7  | 5829.4  |
| 27.5° | 6082.8  | 6094.4  | 5929.3  | 5664.3  | 5548.0  | 5571.3  | 5594.4  | 5578.3  | 5603.8  | 5673.6  | 5917.7  |
| 30°   | 6436.3  | 6443.3  | 6233.9  | 5882.8  | 5717.8  | 5729.3  | 5734.1  | 5666.6  | 5617.7  | 5673.6  | 5980.5  |
| 32.5° | 6854.8  | 6852.4  | 6603.7  | 6148.0  | 5910.8  | 5899.1  | 5859.6  | 5727.1  | 5613.1  | 5661.9  | 6036.3  |
| 35°   | 7503.5  | 7477.9  | 7157.1  | 6519.9  | 6129.3  | 6057.2  | 5964.2  | 5794.4  | 5636.4  | 5650.3  | 6085.1  |
| 37.5° | 8577.8  | 8498.7  | 8054.6  | 7129.2  | 6454.8  | 6271.2  | 6133.9  | 5903.8  | 5687.5  | 5645.7  | 6143.2  |
| 40°   | 9789.3  | 9689.2  | 9200.9  | 7963.9  | 6943.1  | 6647.8  | 6427.0  | 6059.6  | 5771.3  | 5666.6  | 6229.3  |
| 42.5° | 11226.2 | 11084.3 | 10558.8 | 8947.5  | 7561.6  | 7133.8  | 6801.3  | 6257.2  | 5894.5  | 5734.1  | 6345.6  |
| 45°   | 12991.1 | 12802.7 | 12058.6 | 10056.6 | 8340.6  | 7770.9  | 7326.8  | 6557.1  | 6082.8  | 5864.2  | 6519.9  |
| 47.5° | 14774.6 | 14821.0 | 13763.0 | 11326.1 | 9275.3  | 8556.8  | 7984.9  | 7008.2  | 6357.2  | 6073.5  | 6801.3  |
| 50°   | 16669.6 | 16702.2 | 15458.1 | 12733.0 | 10335.7 | 9445.1  | 8724.3  | 7512.8  | 6738.6  | 6371.1  | 7222.2  |
| 52.5° | 18148.4 | 18153.1 | 16997.5 | 14204.9 | 11440.1 | 10421.7 | 9521.8  | 8089.5  | 7180.3  | 6766.4  | 7782.5  |
| 55°   | 19073.8 | 19062.2 | 18076.3 | 15597.6 | 12709.7 | 11447.1 | 10405.4 | 8745.2  | 7719.8  | 7231.5  | 8487.1  |
| 57.5° | 19745.8 | 19711.0 | 18820.4 | 16795.1 | 14063.0 | 12658.5 | 11405.3 | 9489.2  | 8356.8  | 7784.9  | 9414.8  |
| 60°   | 20001.6 | 19980.7 | 19324.9 | 17829.9 | 15486.0 | 13997.9 | 12558.6 | 10321.6 | 9080.1  | 8438.2  | 10607.7 |
| 62.5° | 20099.3 | 20138.8 | 19820.2 | 18832.0 | 17009.1 | 15481.4 | 13825.8 | 11316.9 | 9893.8  | 9177.6  | 11865.6 |
| 65°   | 20443.4 | 20515.5 | 20450.4 | 20143.5 | 18729.7 | 17218.4 | 15506.9 | 12500.4 | 10782.1 | 9970.6  | 13179.3 |
| 67.5° | 21124.7 | 21196.8 | 21224.7 | 21713.0 | 20831.7 | 19383.2 | 17604.3 | 13974.6 | 11821.4 | 10793.8 | 14167.7 |
| 70°   | 21108.4 | 21087.5 | 21580.5 | 22961.6 | 23463.9 | 22380.4 | 20431.8 | 15788.3 | 13060.9 | 11477.3 | 14293.2 |
| 72.5° | 19213.3 | 19045.9 | 20210.8 | 22947.7 | 25654.2 | 25510.1 | 23884.8 | 18127.5 | 14130.4 | 11561.1 | 12402.8 |
| 75°   | 14414.1 | 13967.7 | 16025.5 | 20680.6 | 26019.3 | 27286.5 | 26079.8 | 19578.4 | 13877.0 | 10214.7 | 8631.2  |
| 77.5° | 6164.1  | 5715.4  | 8140.7  | 15309.3 | 23287.2 | 25507.7 | 24066.1 | 17081.1 | 11077.4 | 6754.7  | 4238.9  |
| 80°   | 1613.8  | 1611.4  | 2460.1  | 6940.8  | 15837.2 | 18836.6 | 16525.4 | 11030.8 | 6329.3  | 2413.6  | 1169.6  |
| 82.5° | 667.4   | 651.1   | 904.6   | 2699.5  | 7738.3  | 10570.5 | 8626.6  | 4920.2  | 2285.8  | 653.4   | 388.3   |
| 85°   | 248.8   | 246.5   | 439.4   | 932.4   | 2729.8  | 4359.8  | 3155.4  | 1258.0  | 569.7   | 318.6   | 174.4   |
| 87.5° | 69.8    | 67.4    | 95.3    | 323.2   | 665.0   | 1009.1  | 539.5   | 206.9   | 160.4   | 125.6   | 51.1    |
| 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°    | 5013.2  | 5013.2  | 5013.2  | 5013.2 | 5013.2 | 5013.2 | 5013.2 | 5013.2 | 5013.2 | 5013.2 | 5013.2 |
| 2.5°  | 5029.5  | 5041.1  | 5062.1  | 5078.3 | 5099.3 | 5122.4 | 5155.0 | 5175.9 | 5196.9 | 5210.8 | 5201.6 |
| 5°    | 5050.4  | 5076.0  | 5129.4  | 5182.9 | 5245.7 | 5303.9 | 5371.3 | 5420.1 | 5459.7 | 5471.2 | 5476.0 |
| 7.5°  | 5096.9  | 5138.7  | 5229.4  | 5320.2 | 5420.1 | 5515.4 | 5613.1 | 5696.8 | 5764.3 | 5789.8 | 5792.2 |
| 10°   | 5178.3  | 5234.1  | 5362.0  | 5489.9 | 5622.4 | 5768.9 | 5894.5 | 6015.4 | 6110.7 | 6150.2 | 6152.6 |
| 12.5° | 5280.6  | 5350.4  | 5517.8  | 5694.5 | 5878.2 | 6080.5 | 6243.3 | 6392.1 | 6510.6 | 6564.1 | 6564.1 |
| 15°   | 5413.1  | 5503.8  | 5717.8  | 5954.9 | 6224.6 | 6506.0 | 6712.9 | 6878.1 | 7010.6 | 7075.7 | 7071.1 |
| 17.5° | 5557.3  | 5678.2  | 5948.0  | 6306.0 | 6692.0 | 7061.7 | 7303.5 | 7424.5 | 7561.6 | 7624.5 | 7622.1 |
| 20°   | 5696.8  | 5845.6  | 6231.6  | 6752.5 | 7266.3 | 7659.3 | 7854.6 | 7887.2 | 7896.5 | 7903.5 | 7922.0 |
| 22.5° | 5841.0  | 6040.9  | 6587.4  | 7315.2 | 7866.3 | 8138.3 | 8166.2 | 8026.7 | 7831.4 | 7740.7 | 7766.2 |
| 25°   | 5999.1  | 6264.2  | 7052.4  | 7936.0 | 8382.4 | 8415.0 | 8201.1 | 7861.6 | 7491.9 | 7322.2 | 7347.7 |
| 27.5° | 6152.6  | 6522.3  | 7610.5  | 8528.9 | 8754.5 | 8468.4 | 8008.1 | 7526.8 | 7080.3 | 6901.3 | 6922.2 |
| 30°   | 6306.0  | 6817.6  | 8226.6  | 9047.5 | 8924.3 | 8335.9 | 7703.5 | 7166.4 | 6717.5 | 6529.2 | 6550.2 |
| 32.5° | 6461.8  | 7161.7  | 8935.8  | 9421.8 | 8894.0 | 8054.6 | 7324.4 | 6761.7 | 6366.5 | 6168.9 | 6194.4 |
| 35°   | 6638.5  | 7584.9  | 9607.8  | 9626.5 | 8691.7 | 7640.7 | 6824.6 | 6278.1 | 5934.0 | 5775.9 | 5810.7 |
| 37.5° | 6868.7  | 8122.0  | 10200.8 | 9677.6 | 8338.3 | 7033.9 | 6203.7 | 5706.1 | 5422.5 | 5350.4 | 5401.5 |
| 40°   | 7154.7  | 8768.5  | 10654.2 | 9596.3 | 7815.1 | 6296.7 | 5524.7 | 5127.2 | 4966.7 | 4982.9 | 5038.8 |
| 42.5° | 7526.8  | 9491.6  | 10972.7 | 9386.9 | 7087.3 | 5536.3 | 4929.5 | 4752.7 | 4829.5 | 4894.6 | 4955.1 |
| 45°   | 8010.4  | 10242.6 | 11170.4 | 9031.2 | 6264.2 | 4892.3 | 4578.4 | 4620.2 | 4678.4 | 4685.4 | 4731.8 |
| 47.5° | 8629.0  | 11003.0 | 11300.6 | 8494.1 | 5424.7 | 4438.9 | 4355.1 | 4364.4 | 4352.9 | 4304.0 | 4341.2 |
| 50°   | 9400.9  | 11742.4 | 11416.9 | 7782.5 | 4710.9 | 4155.1 | 4043.5 | 4011.0 | 3850.6 | 3692.5 | 3713.4 |
| 52.5° | 10279.8 | 12421.4 | 11465.8 | 6899.0 | 4155.1 | 3918.0 | 3736.6 | 3532.0 | 3232.0 | 3183.2 | 3199.5 |
| 55°   | 11256.4 | 13049.2 | 11340.2 | 5813.1 | 3687.8 | 3613.4 | 3339.0 | 3092.5 | 3060.0 | 3018.1 | 3025.1 |
| 57.5° | 12423.7 | 13725.9 | 11084.3 | 4601.6 | 3208.9 | 3257.7 | 2990.2 | 3018.1 | 2960.0 | 2894.9 | 2883.3 |
| 60°   | 13700.3 | 14425.7 | 10635.6 | 3497.1 | 2713.6 | 2813.5 | 2899.5 | 2897.3 | 2881.0 | 2827.5 | 2808.9 |
| 62.5° | 14848.9 | 14886.1 | 9752.1  | 2678.6 | 2278.7 | 2469.4 | 2704.3 | 2701.9 | 2688.0 | 2657.7 | 2646.1 |
| 65°   | 15532.5 | 14816.4 | 8277.8  | 2108.9 | 1920.6 | 2185.7 | 2439.2 | 2457.7 | 2460.1 | 2457.7 | 2457.7 |
| 67.5° | 15411.6 | 14000.2 | 6254.9  | 1678.8 | 1625.3 | 1897.4 | 2176.4 | 2202.0 | 2220.6 | 2225.3 | 2229.9 |
| 70°   | 14044.3 | 12207.4 | 4078.5  | 1339.4 | 1362.6 | 1643.9 | 1927.6 | 1953.2 | 1969.4 | 1988.1 | 1997.4 |
| 72.5° | 10947.2 | 8975.4  | 2334.5  | 1083.5 | 1132.4 | 1425.4 | 1681.1 | 1711.3 | 1720.7 | 1755.5 | 1769.5 |
| 75°   | 6671.1  | 5278.2  | 1260.2  | 853.3  | 930.1  | 1218.4 | 1436.9 | 1471.9 | 1488.2 | 1530.0 | 1534.6 |
| 77.5° | 3171.7  | 2285.8  | 718.5   | 665.0  | 748.8  | 995.2  | 1213.8 | 1253.3 | 1209.1 | 1232.4 | 1213.8 |
| 80°   | 1071.9  | 848.7   | 453.5   | 506.9  | 572.1  | 776.6  | 971.9  | 1011.5 | 918.5  | 913.8  | 904.6  |
| 82.5° | 374.3   | 344.1   | 288.3   | 337.1  | 369.7  | 555.8  | 734.8  | 786.0  | 683.6  | 681.3  | 648.7  |
| 85°   | 146.5   | 139.5   | 160.4   | 183.7  | 220.9  | 341.8  | 483.7  | 509.2  | 420.9  | 339.5  | 334.9  |
| 87.5° | 30.2    | 32.6    | 39.6    | 41.8   | 67.4   | 118.6  | 174.4  | 213.9  | 169.7  | 144.1  | 132.5  |
| 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)