

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: P965157

Luminaire Tested: **NVN-SB3D-750-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965157  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB3D-750-U-T2R-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

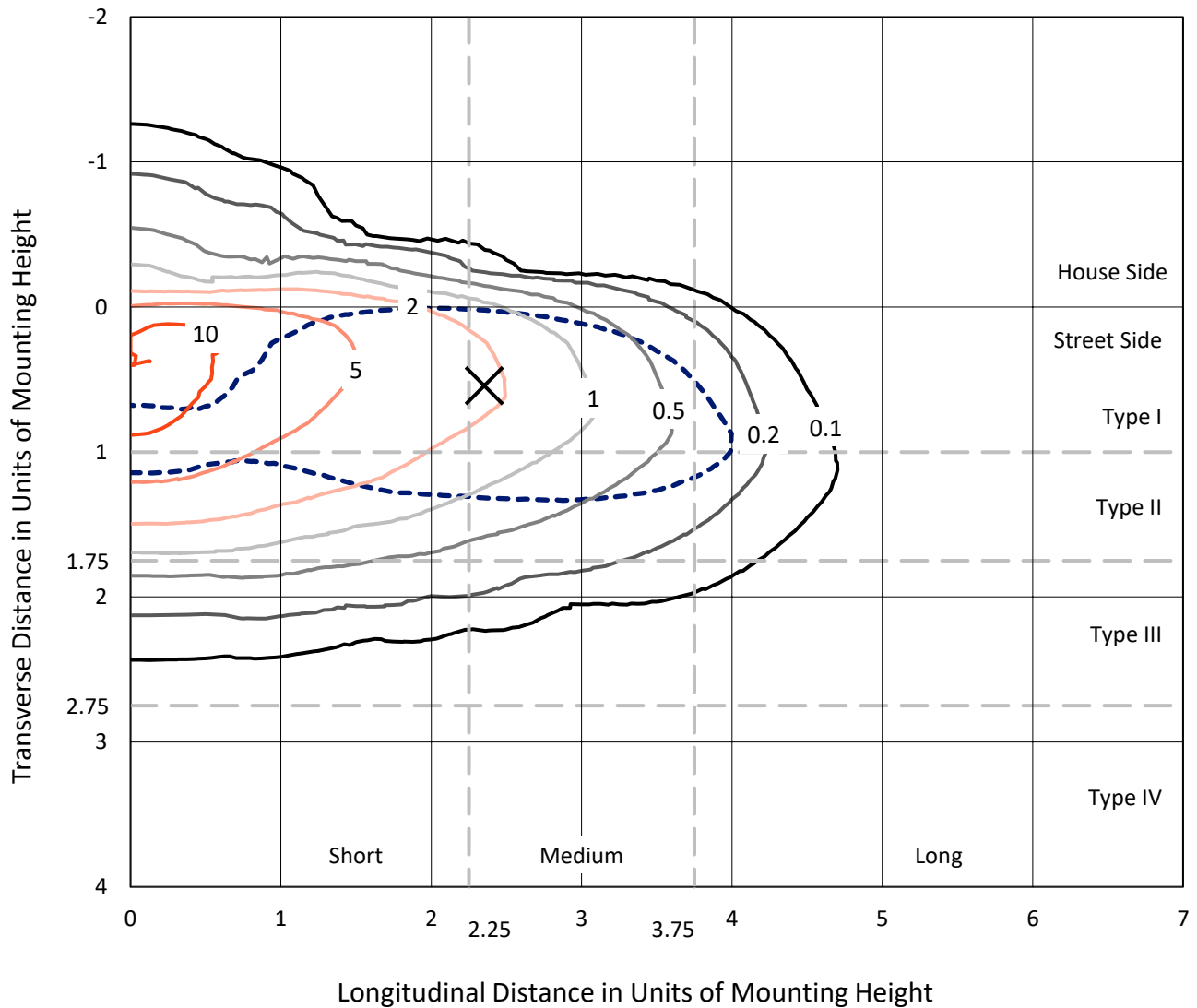
Lumens per Lamp: N/A  
Luminaire Lumens: 28032.7 lumens  
Efficiency: N/A  
Efficacy: 128.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

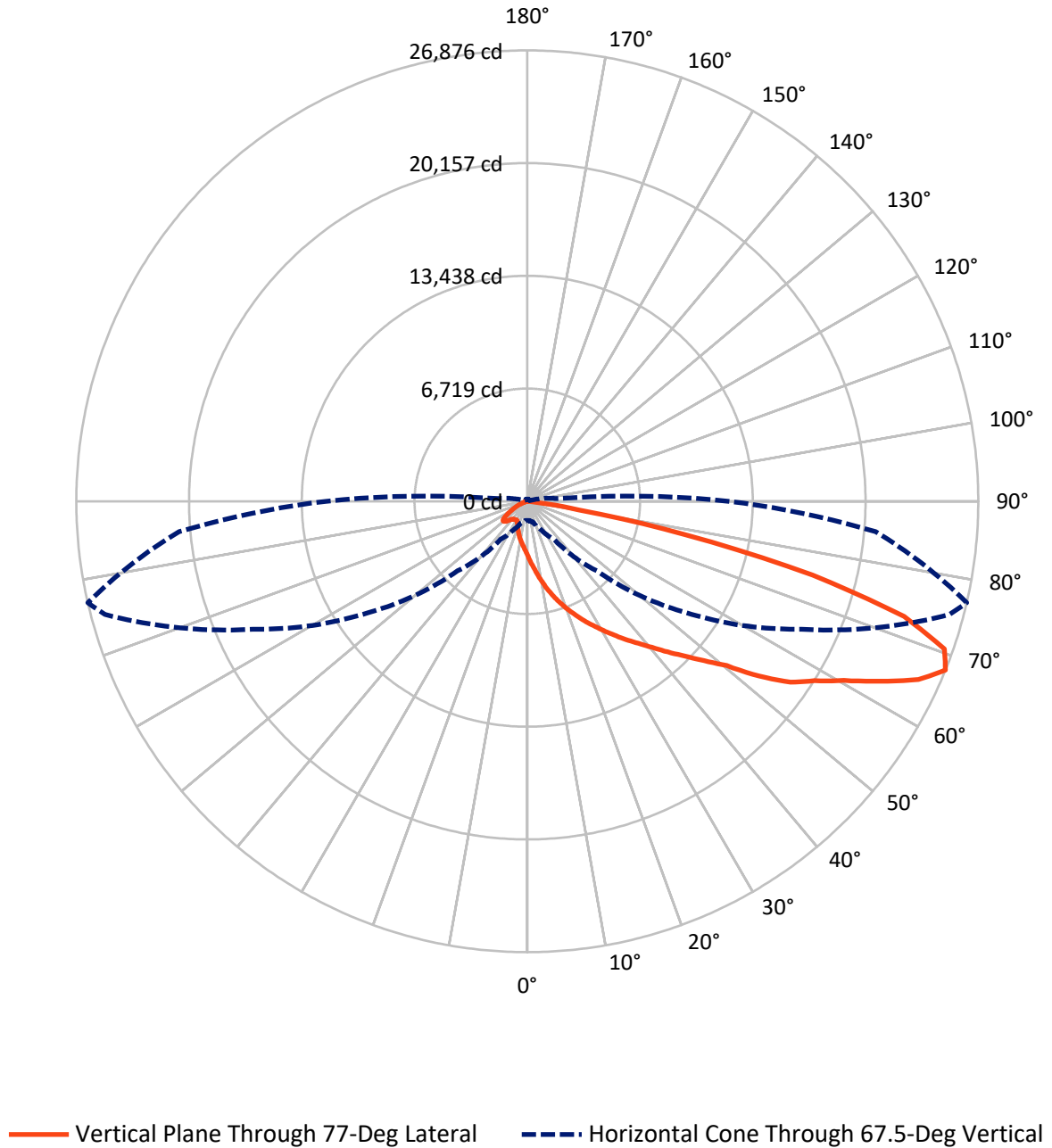
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type II - 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    | 2062.4   | 0.0    | 2062.4  |
|                    | % Fixture | 7.4      | 0.0    | 7.4     |
| <b>Street Side</b> | Lumens    | 25970.3  | 0.0    | 25970.3 |
|                    | % Fixture | 92.6     | 0.0    | 92.6    |
| <b>Total</b>       | Lumens    | 28032.7  | 0.0    | 28032.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 329.9   | 1.2       |
| 10°-20°   | 1155.4  | 4.1       |
| 20°-30°   | 2229.6  | 8.0       |
| 30°-40°   | 3870.7  | 13.8      |
| 40°-50°   | 5620.1  | 20.0      |
| 50°-60°   | 6454.0  | 23.0      |
| 60°-70°   | 5603.3  | 20.0      |
| 70°-80°   | 2639.2  | 9.4       |
| 80°-90°   | 130.5   | 0.5       |
| 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°    | 28032.7 | 100.0     |
| 0°-180°   | 28032.7 | 100.0     |

**Coefficient of Utilization**



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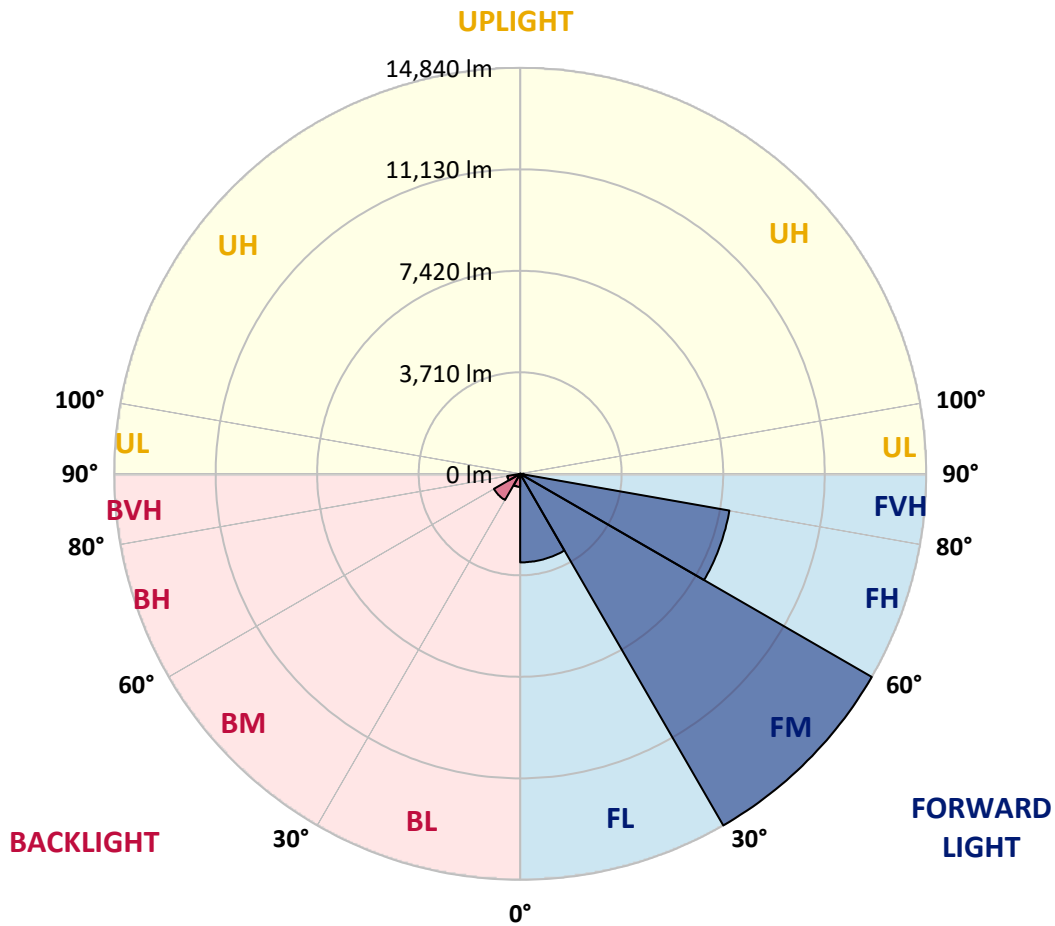
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3237.5  | 11.5      |                         |      |          |
| FM (30°-60°)   | 14839.8 | 52.9      |                         |      |          |
| FH (60°-80°)   | 7765.0  | 27.7      |                         |      | G4/12000 |
| FVH (80°-90°)  | 128.1   | 0.5       |                         |      | G2/225   |
| BL (0°-30°)    | 477.5   | 1.7       | B1/500                  |      |          |
| BM (30°-60°)   | 1105.1  | 3.9       | B2/2500                 |      |          |
| BH (60°-80°)   | 477.5   | 1.7       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 2.4     | 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-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3232.5  | 3232.5  | 3232.5  | 3232.5  | 3232.5  | 3232.5  | 3232.5  | 3232.5  | 3232.5  | 3232.5  | 3232.5  |
| 2.5°  | 4475.5  | 4503.3  | 4463.3  | 4386.7  | 4271.8  | 4197.0  | 4014.2  | 3841.8  | 3650.3  | 3589.4  | 3398.0  |
| 5°    | 5455.6  | 5479.9  | 5434.7  | 5351.1  | 5197.9  | 5051.7  | 4811.5  | 4451.2  | 4076.8  | 3956.7  | 3617.3  |
| 7.5°  | 6181.5  | 6195.3  | 6178.0  | 6101.3  | 5955.1  | 5789.7  | 5521.7  | 5095.2  | 4539.9  | 4407.6  | 3887.1  |
| 10°   | 6703.7  | 6748.9  | 6743.7  | 6714.1  | 6616.6  | 6482.6  | 6197.0  | 5711.4  | 5058.7  | 4888.0  | 4191.7  |
| 12.5° | 7050.1  | 7100.6  | 7130.1  | 7196.3  | 7191.1  | 7105.8  | 6855.1  | 6341.6  | 5575.7  | 5375.4  | 4534.7  |
| 15°   | 7151.0  | 7205.0  | 7318.2  | 7471.3  | 7607.1  | 7650.6  | 7474.8  | 6959.5  | 6144.9  | 5888.9  | 4886.3  |
| 17.5° | 7093.6  | 7177.2  | 7313.0  | 7554.9  | 7852.5  | 8049.2  | 8030.2  | 7556.6  | 6661.9  | 6369.5  | 5231.0  |
| 20°   | 7220.6  | 7300.8  | 7407.0  | 7610.6  | 7957.0  | 8313.9  | 8456.6  | 8127.6  | 7175.4  | 6869.0  | 5593.0  |
| 22.5° | 7924.0  | 7910.0  | 7920.5  | 7953.5  | 8160.6  | 8514.1  | 8808.2  | 8646.4  | 7683.7  | 7370.4  | 5976.1  |
| 25°   | 9038.0  | 8975.3  | 8869.1  | 8689.8  | 8637.7  | 8808.2  | 9114.6  | 9105.9  | 8219.9  | 7883.9  | 6367.7  |
| 27.5° | 10315.7 | 10305.2 | 10056.4 | 9624.6  | 9380.9  | 9314.8  | 9461.1  | 9553.3  | 8750.8  | 8392.2  | 6761.1  |
| 30°   | 11539.4 | 11567.3 | 11231.3 | 10750.9 | 10303.5 | 10044.2 | 9911.9  | 9978.1  | 9290.4  | 8940.6  | 7166.7  |
| 32.5° | 12604.8 | 12634.5 | 12268.8 | 11706.6 | 11153.0 | 10839.7 | 10561.2 | 10397.5 | 9878.7  | 9497.5  | 7612.4  |
| 35°   | 13504.8 | 13534.4 | 13114.9 | 12493.4 | 11903.3 | 11619.5 | 11304.5 | 10857.1 | 10470.7 | 10115.5 | 8108.5  |
| 37.5° | 14309.0 | 14300.3 | 13738.1 | 13111.4 | 12531.8 | 12307.2 | 12141.7 | 11422.8 | 11079.9 | 10737.0 | 8658.5  |
| 40°   | 14784.3 | 14820.8 | 14340.4 | 13649.3 | 13087.0 | 12923.4 | 12912.9 | 12124.4 | 11783.2 | 11450.7 | 9260.9  |
| 42.5° | 14923.5 | 14988.0 | 14639.8 | 14072.3 | 13562.2 | 13384.7 | 13658.0 | 12883.3 | 12601.3 | 12277.6 | 9941.5  |
| 45°   | 14672.9 | 14735.5 | 14577.1 | 14183.6 | 13886.0 | 13771.1 | 14298.5 | 13670.1 | 13475.2 | 13154.8 | 10709.1 |
| 47.5° | 13941.7 | 14020.1 | 14058.4 | 13974.7 | 13971.3 | 14087.9 | 14873.1 | 14498.7 | 14512.7 | 14185.4 | 11598.7 |
| 50°   | 12526.5 | 12658.7 | 13010.4 | 13306.3 | 13764.2 | 14338.6 | 15431.8 | 15397.0 | 15682.5 | 15400.5 | 12758.0 |
| 52.5° | 9953.7  | 10141.7 | 11353.2 | 12162.6 | 13191.4 | 14291.6 | 16046.3 | 16838.3 | 17734.9 | 17322.3 | 14392.5 |
| 55°   | 7998.8  | 7998.8  | 8984.0  | 10498.5 | 12073.9 | 13981.7 | 16314.4 | 17774.8 | 19132.6 | 19035.2 | 15543.2 |
| 57.5° | 6520.8  | 6599.3  | 7227.6  | 8566.2  | 10456.7 | 13243.7 | 16479.7 | 18363.3 | 20258.9 | 20187.6 | 16667.7 |
| 60°   | 4024.7  | 4193.5  | 5380.6  | 6702.0  | 8616.8  | 11929.4 | 16375.3 | 18958.6 | 21625.4 | 21682.8 | 18022.1 |
| 62.5° | 2266.5  | 2329.1  | 2858.3  | 4821.9  | 6700.2  | 10162.6 | 15576.3 | 19291.1 | 23373.2 | 23616.8 | 19418.1 |
| 65°   | 1565.0  | 1596.2  | 1799.9  | 3001.1  | 4644.4  | 8091.0  | 14014.8 | 19084.0 | 25124.4 | 25617.0 | 20601.9 |
| 67.5° | 1136.7  | 1152.4  | 1279.4  | 1833.0  | 2755.6  | 5866.4  | 11567.3 | 18039.5 | 26052.1 | 26875.5 | 20828.2 |
| 70°   | 873.8   | 884.3   | 976.5   | 1204.6  | 1627.6  | 3620.8  | 8400.9  | 15962.7 | 25380.2 | 26363.7 | 19668.8 |
| 72.5° | 710.2   | 720.7   | 792.0   | 891.2   | 1079.2  | 2141.1  | 5091.7  | 12963.4 | 22414.0 | 23475.9 | 16744.3 |
| 75°   | 598.8   | 612.7   | 677.1   | 741.6   | 846.0   | 1375.2  | 2388.4  | 9027.6  | 16855.7 | 17552.1 | 11643.9 |
| 77.5° | 332.5   | 306.4   | 550.1   | 614.5   | 713.7   | 870.3   | 1117.6  | 5312.8  | 9440.1  | 9633.4  | 5166.6  |
| 80°   | 207.2   | 214.1   | 437.0   | 494.4   | 548.4   | 438.7   | 511.8   | 2045.4  | 3272.6  | 3109.0  | 1000.9  |
| 82.5° | 12.2    | 27.9    | 336.0   | 356.9   | 376.0   | 188.0   | 193.2   | 694.5   | 788.5   | 724.2   | 177.5   |
| 85°   | 0.0     | 0.0     | 153.2   | 123.6   | 130.6   | 53.9    | 55.7    | 161.8   | 106.2   | 114.9   | 34.8    |
| 87.5° | 0.0     | 0.0     | 0.0     | 3.5     | 0.0     | 5.2     | 10.5    | 13.9    | 5.2     | 7.0     | 12.2    |
| 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°    | 3232.5  | 3232.5 | 3232.5 | 3232.5 | 3232.5 | 3232.5 | 3232.5 | 3232.5 | 3232.5 | 3232.5 | 3232.5 |
| 2.5°  | 3276.1  | 3154.2 | 2907.1 | 2665.1 | 2468.4 | 2285.6 | 2155.1 | 2031.4 | 1968.8 | 1965.3 | 1961.8 |
| 5°    | 3375.3  | 3119.5 | 2625.0 | 2188.2 | 1836.5 | 1554.5 | 1371.8 | 1241.2 | 1175.1 | 1152.4 | 1148.9 |
| 7.5°  | 3514.6  | 3129.8 | 2377.9 | 1770.4 | 1356.1 | 1114.1 | 1009.6 | 967.9  | 954.0  | 938.3  | 934.8  |
| 10°   | 3690.4  | 3154.2 | 2156.8 | 1425.7 | 1068.9 | 947.0  | 905.2  | 887.8  | 877.3  | 866.9  | 863.5  |
| 12.5° | 3887.1  | 3176.9 | 1937.5 | 1183.7 | 940.0  | 877.3  | 847.8  | 826.9  | 812.9  | 800.7  | 797.2  |
| 15°   | 4078.6  | 3190.8 | 1709.4 | 1014.9 | 873.8  | 823.4  | 792.0  | 769.4  | 750.3  | 736.4  | 734.6  |
| 17.5° | 4268.3  | 3210.0 | 1495.3 | 913.9  | 819.9  | 769.4  | 738.1  | 710.2  | 694.5  | 678.9  | 677.1  |
| 20°   | 4478.9  | 3206.5 | 1293.3 | 842.6  | 766.0  | 715.4  | 682.3  | 656.3  | 640.6  | 623.2  | 621.5  |
| 22.5° | 4673.9  | 3189.1 | 1115.8 | 781.6  | 710.2  | 661.5  | 624.9  | 598.8  | 583.1  | 569.2  | 567.4  |
| 25°   | 4898.5  | 3175.1 | 967.9  | 725.9  | 658.0  | 609.3  | 569.2  | 544.9  | 527.5  | 515.3  | 513.5  |
| 27.5° | 5114.3  | 3154.2 | 860.0  | 675.4  | 607.5  | 560.6  | 522.2  | 494.4  | 478.7  | 470.0  | 470.0  |
| 30°   | 5326.7  | 3149.0 | 819.9  | 626.7  | 562.3  | 515.3  | 476.9  | 450.9  | 438.7  | 435.2  | 433.5  |
| 32.5° | 5582.6  | 3162.9 | 837.3  | 609.3  | 520.5  | 473.4  | 437.0  | 417.8  | 405.6  | 405.6  | 405.6  |
| 35°   | 5855.9  | 3159.5 | 863.5  | 624.9  | 492.6  | 431.7  | 403.8  | 391.7  | 379.5  | 379.5  | 379.5  |
| 37.5° | 6198.8  | 3164.7 | 884.3  | 651.1  | 482.2  | 396.9  | 381.2  | 365.5  | 358.5  | 358.5  | 358.5  |
| 40°   | 6710.6  | 3337.0 | 873.8  | 673.6  | 478.7  | 372.5  | 341.2  | 336.0  | 330.8  | 330.8  | 330.8  |
| 42.5° | 7337.3  | 3711.3 | 887.8  | 675.4  | 476.9  | 355.2  | 313.3  | 323.8  | 311.6  | 309.9  | 308.1  |
| 45°   | 8023.2  | 4120.4 | 976.5  | 638.9  | 475.2  | 346.4  | 299.4  | 311.6  | 292.4  | 292.4  | 292.4  |
| 47.5° | 8703.8  | 4526.0 | 1067.1 | 586.6  | 470.0  | 344.7  | 287.2  | 280.2  | 275.0  | 276.8  | 276.8  |
| 50°   | 9642.1  | 4856.8 | 1101.9 | 515.3  | 457.9  | 341.2  | 264.6  | 266.3  | 262.8  | 266.3  | 266.3  |
| 52.5° | 10663.9 | 4926.4 | 1060.2 | 435.2  | 423.0  | 330.8  | 249.0  | 255.8  | 254.2  | 257.6  | 257.6  |
| 55°   | 11301.0 | 4851.5 | 875.6  | 362.0  | 369.0  | 288.9  | 233.3  | 247.2  | 247.2  | 247.2  | 247.2  |
| 57.5° | 11959.0 | 4533.0 | 621.5  | 294.2  | 306.4  | 236.8  | 219.4  | 238.5  | 236.8  | 235.0  | 235.0  |
| 60°   | 12432.5 | 4017.7 | 409.1  | 242.0  | 243.7  | 195.0  | 203.7  | 224.6  | 222.8  | 214.1  | 214.1  |
| 62.5° | 12785.8 | 3448.4 | 262.8  | 205.4  | 186.2  | 175.8  | 186.2  | 203.7  | 196.7  | 177.5  | 174.0  |
| 65°   | 12745.8 | 2659.9 | 201.9  | 175.8  | 153.2  | 153.2  | 161.8  | 177.5  | 156.6  | 125.4  | 121.9  |
| 67.5° | 12002.5 | 1799.9 | 167.1  | 148.0  | 128.8  | 127.1  | 134.1  | 148.0  | 134.1  | 106.2  | 102.7  |
| 70°   | 10674.3 | 1176.8 | 134.1  | 114.9  | 102.7  | 94.0   | 107.9  | 127.1  | 113.2  | 85.3   | 81.8   |
| 72.5° | 8663.7  | 717.2  | 101.0  | 83.5   | 74.8   | 60.9   | 85.3   | 104.4  | 90.5   | 62.6   | 59.1   |
| 75°   | 5605.2  | 365.5  | 69.6   | 53.9   | 40.1   | 36.6   | 62.6   | 78.3   | 62.6   | 38.3   | 33.1   |
| 77.5° | 2144.6  | 153.2  | 38.3   | 24.4   | 20.9   | 17.4   | 34.8   | 47.0   | 26.1   | 8.7    | 7.0    |
| 80°   | 412.6   | 64.4   | 19.2   | 12.2   | 10.5   | 7.0    | 5.2    | 3.5    | 0.0    | 0.0    | 0.0    |
| 82.5° | 71.3    | 20.9   | 7.0    | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 24.4    | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 8.7     | 0.0    | 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)