

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: P964026

Luminaire Tested: **NVN-SB3B-735-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964026  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB3B-735-U-AFL-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14765.1 lumens  
Efficiency: N/A  
Efficacy: 135.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

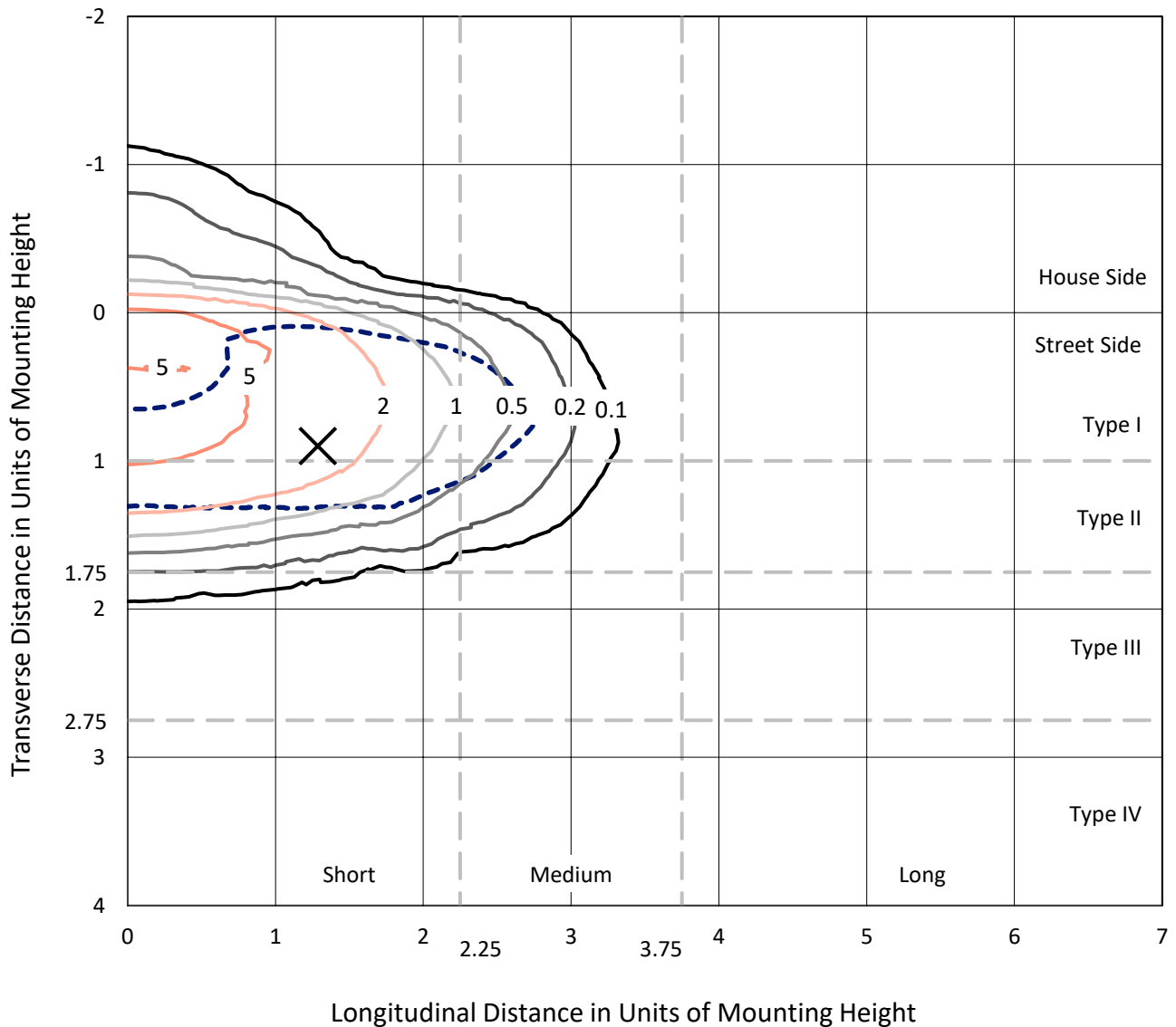
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

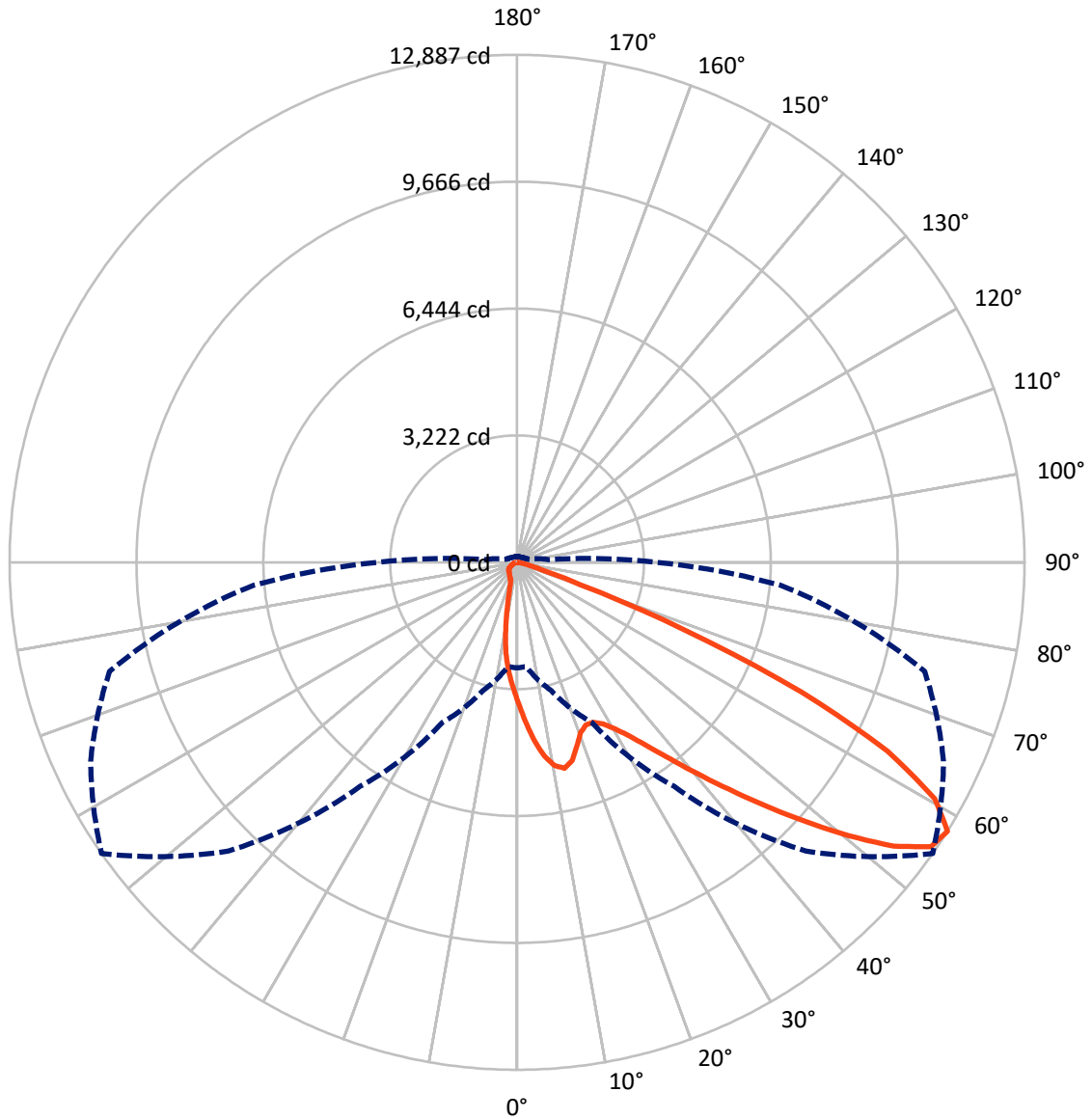
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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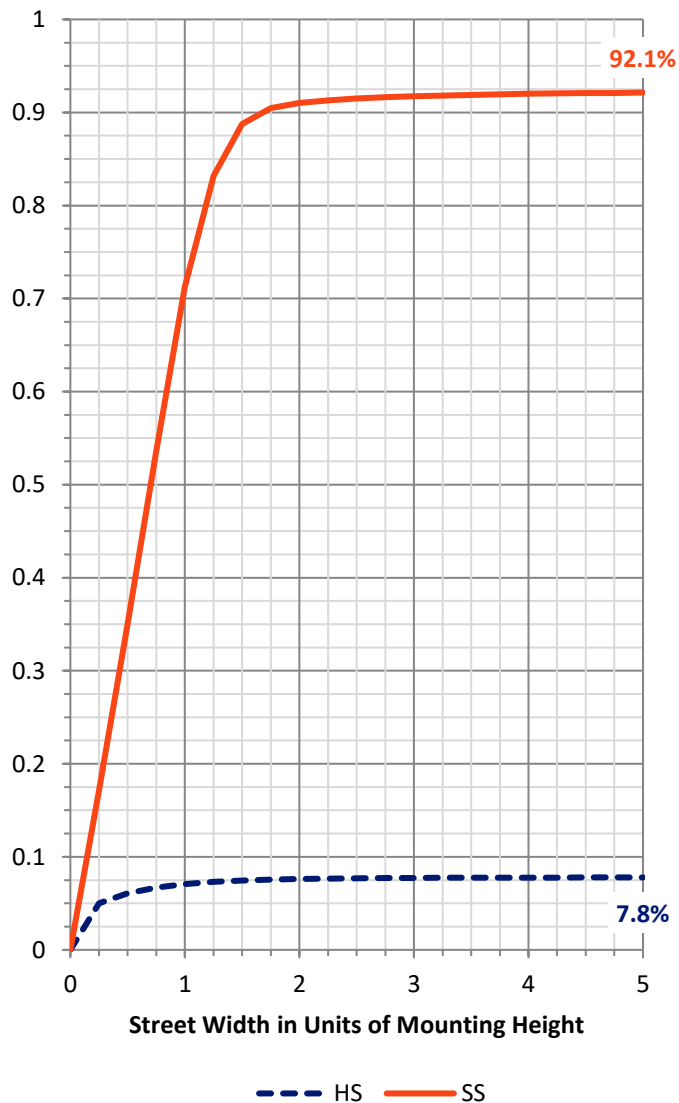
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1153.1   | 0.0    | 1153.1  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 13612.0  | 0.0    | 13612.0 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 14765.1  | 0.0    | 14765.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 331.1   | 2.2       |
| 10°-20°   | 799.7   | 5.4       |
| 20°-30°   | 1279.5  | 8.7       |
| 30°-40°   | 2165.5  | 14.7      |
| 40°-50°   | 3555.4  | 24.1      |
| 50°-60°   | 3907.6  | 26.5      |
| 60°-70°   | 2241.4  | 15.2      |
| 70°-80°   | 458.0   | 3.1       |
| 80°-90°   | 27.0    | 0.2       |
| 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°    | 14765.1 | 100.0     |
| 0°-180°   | 14765.1 | 100.0     |

**Coefficient of Utilization**

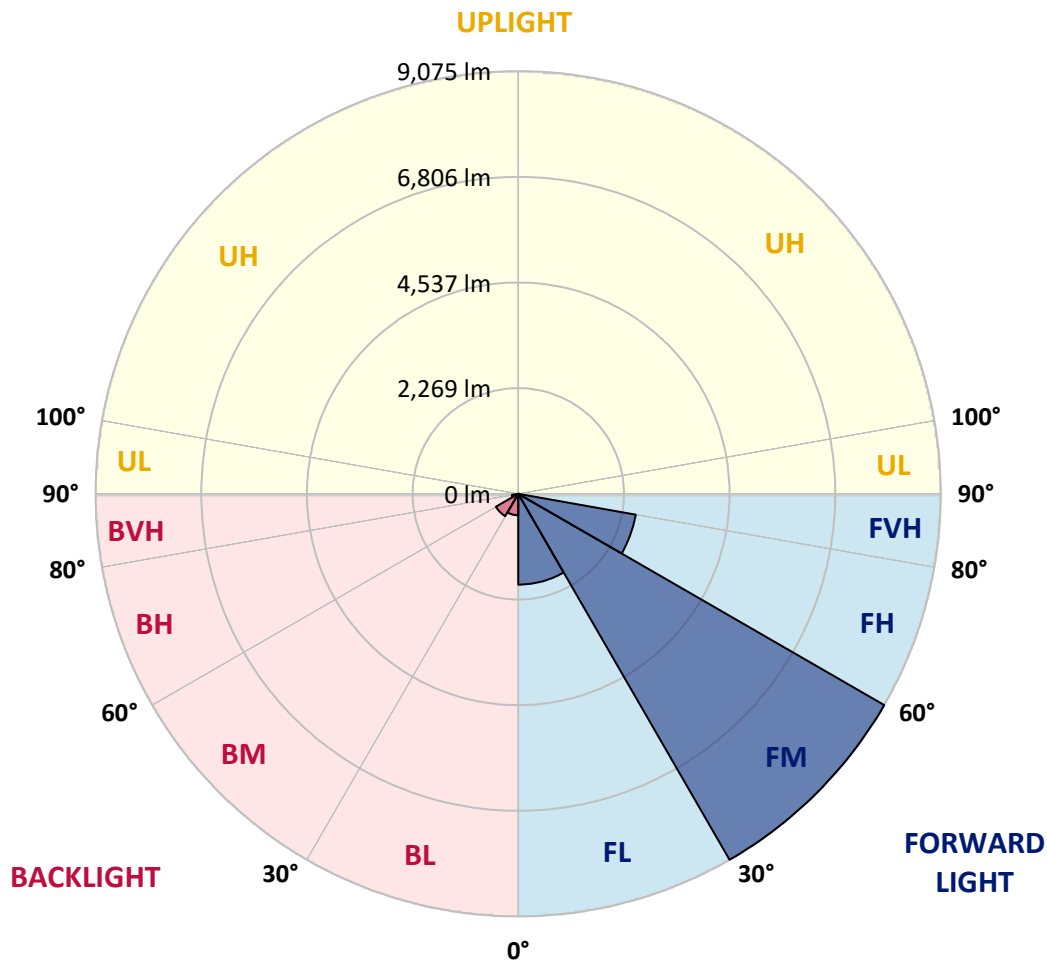


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1949.8 | 13.2      |                         |      |         |
| FM (30°-60°)   | 9074.8 | 61.5      |                         |      |         |
| FH (60°-80°)   | 2562.3 | 17.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 25.2   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 460.3  | 3.1       | B1/500                  |      |         |
| BM (30°-60°)   | 553.8  | 3.8       | B1/1000                 |      |         |
| BH (60°-80°)   | 137.1  | 0.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.8    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 65°     | 75°     | 85°    | 90°    |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 3558.0 | 3558.0 | 3558.0 | 3558.0 | 3558.0  | 3558.0  | 3558.0  | 3558.0  | 3558.0  | 3558.0 | 3558.0 |
| 2.5°  | 4414.8 | 4359.2 | 4351.0 | 4340.1 | 4234.5  | 4155.2  | 4040.6  | 3914.9  | 3773.8  | 3629.9 | 3566.2 |
| 5°    | 5100.3 | 5056.6 | 5048.4 | 4997.5 | 4877.3  | 4742.6  | 4538.6  | 4280.9  | 4017.8  | 3708.2 | 3575.3 |
| 7.5°  | 5233.2 | 5225.0 | 5262.3 | 5260.6 | 5244.2  | 5137.6  | 4965.6  | 4658.7  | 4263.6  | 3804.8 | 3599.0 |
| 10°   | 4640.6 | 4661.5 | 4772.6 | 4870.0 | 5133.1  | 5286.0  | 5248.7  | 4995.6  | 4516.8  | 3914.9 | 3625.4 |
| 12.5° | 4100.6 | 4076.1 | 4155.2 | 4265.4 | 4571.4  | 5026.6  | 5366.2  | 5277.0  | 4806.2  | 4039.6 | 3664.6 |
| 15°   | 3762.0 | 3751.9 | 3796.6 | 3847.5 | 4080.6  | 4539.5  | 5229.7  | 5505.5  | 5084.8  | 4187.1 | 3723.7 |
| 17.5° | 3653.6 | 3645.4 | 3659.0 | 3671.9 | 3822.9  | 4178.0  | 4904.6  | 5645.7  | 5351.6  | 4355.6 | 3789.3 |
| 20°   | 3742.0 | 3731.0 | 3729.2 | 3719.2 | 3782.0  | 4024.2  | 4610.6  | 5655.7  | 5591.1  | 4508.6 | 3845.7 |
| 22.5° | 3999.6 | 3986.8 | 3942.3 | 3902.2 | 3907.6  | 4045.2  | 4479.5  | 5555.6  | 5771.4  | 4651.4 | 3881.3 |
| 25°   | 4466.6 | 4445.7 | 4352.9 | 4218.1 | 4132.5  | 4190.8  | 4499.4  | 5423.6  | 5943.4  | 4763.5 | 3863.9 |
| 27.5° | 5051.2 | 5023.8 | 4904.6 | 4704.2 | 4508.6  | 4437.5  | 4644.2  | 5332.5  | 6086.3  | 4849.1 | 3826.6 |
| 30°   | 5623.9 | 5588.3 | 5470.8 | 5315.2 | 5029.3  | 4805.3  | 4905.4  | 5372.5  | 6256.6  | 4938.2 | 3777.4 |
| 32.5° | 6242.0 | 6208.3 | 6052.6 | 5859.6 | 5622.9  | 5321.6  | 5263.3  | 5568.3  | 6465.1  | 5063.0 | 3742.9 |
| 35°   | 7024.1 | 6971.3 | 6750.0 | 6486.9 | 6235.7  | 5930.6  | 5747.7  | 5906.0  | 6742.8  | 5253.3 | 3762.0 |
| 37.5° | 7914.5 | 7843.5 | 7605.0 | 7241.7 | 6913.9  | 6572.5  | 6337.7  | 6370.4  | 7149.8  | 5508.2 | 3821.2 |
| 40°   | 8753.9 | 8689.3 | 8469.0 | 8126.6 | 7715.2  | 7300.9  | 7050.5  | 6977.7  | 7711.5  | 5818.7 | 3924.9 |
| 42.5° | 9257.4 | 9199.2 | 9106.3 | 8961.6 | 8614.6  | 8192.2  | 7876.3  | 7718.8  | 8376.1  | 6190.2 | 4051.5 |
| 45°   | 9285.7 | 9234.6 | 9359.4 | 9527.9 | 9459.5  | 9178.3  | 8793.1  | 8504.5  | 9043.5  | 6538.9 | 4182.6 |
| 47.5° | 8834.1 | 8799.5 | 9178.3 | 9766.4 | 10059.6 | 10177.9 | 9822.8  | 9224.7  | 9594.3  | 6789.2 | 4236.3 |
| 50°   | 7603.1 | 7590.4 | 8369.7 | 9449.6 | 10288.0 | 11053.7 | 10909.0 | 9894.7  | 10021.3 | 6918.5 | 4185.3 |
| 52.5° | 6592.6 | 6546.2 | 7000.4 | 8435.3 | 9955.7  | 11514.4 | 11970.6 | 10552.1 | 10319.9 | 6943.0 | 4066.1 |
| 55°   | 5000.2 | 4959.3 | 5529.2 | 6738.2 | 8884.2  | 11350.5 | 12747.2 | 11230.4 | 10533.9 | 6880.2 | 3852.2 |
| 57.5° | 2682.2 | 2656.7 | 3376.9 | 4484.9 | 6944.9  | 10367.3 | 12887.4 | 11947.8 | 10714.1 | 6713.6 | 3552.5 |
| 60°   | 1044.3 | 1039.8 | 1309.2 | 2176.0 | 4220.8  | 8434.4  | 12180.0 | 12378.4 | 10827.1 | 6508.7 | 3302.2 |
| 62.5° | 631.8  | 645.5  | 689.2  | 976.9  | 1864.6  | 5239.6  | 10549.4 | 11888.7 | 10902.6 | 6321.3 | 3095.5 |
| 65°   | 522.6  | 523.5  | 529.0  | 671.0  | 893.2   | 2192.4  | 7941.8  | 10277.2 | 10716.0 | 5987.1 | 2802.4 |
| 67.5° | 447.9  | 456.1  | 477.0  | 532.6  | 630.1   | 961.4   | 4572.3  | 7961.0  | 9580.7  | 5209.6 | 2345.3 |
| 70°   | 353.2  | 364.2  | 390.6  | 437.9  | 486.2   | 601.8   | 1689.8  | 5297.0  | 7319.1  | 3926.8 | 1773.6 |
| 72.5° | 297.8  | 296.8  | 310.5  | 356.0  | 386.0   | 423.3   | 650.1   | 2968.1  | 4253.6  | 1874.6 | 877.7  |
| 75°   | 230.3  | 239.4  | 256.8  | 297.8  | 315.9   | 306.8   | 352.3   | 1084.3  | 1524.1  | 568.2  | 298.6  |
| 77.5° | 180.3  | 187.6  | 203.1  | 243.1  | 261.3   | 217.6   | 203.1   | 387.9   | 489.8   | 204.0  | 134.8  |
| 80°   | 81.1   | 87.4   | 138.4  | 179.4  | 213.0   | 150.3   | 110.2   | 198.4   | 217.6   | 92.9   | 68.3   |
| 82.5° | 14.6   | 24.6   | 81.1   | 94.7   | 109.3   | 97.4    | 57.4    | 102.9   | 106.5   | 37.3   | 23.7   |
| 85°   | 0.9    | 1.8    | 28.2   | 34.6   | 43.7    | 31.9    | 17.3    | 41.0    | 35.5    | 12.7   | 9.1    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.9    | 0.9     | 4.5     | 5.4     | 7.3     | 5.4     | 4.5    | 3.7    |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3558.0 | 3558.0 | 3558.0 | 3558.0 | 3558.0 | 3558.0 | 3558.0 | 3558.0 | 3558.0 | 3558.0 |
| 2.5°  | 3500.7 | 3371.4 | 3245.8 | 3142.9 | 3082.8 | 2980.8 | 2913.5 | 2902.5 | 2874.3 | 2898.9 |
| 5°    | 3433.3 | 3202.0 | 2968.1 | 2758.7 | 2586.6 | 2364.5 | 2198.7 | 2128.6 | 2067.6 | 2088.5 |
| 7.5°  | 3401.5 | 3036.4 | 2672.2 | 2314.3 | 1946.6 | 1591.4 | 1327.5 | 1217.3 | 1133.5 | 1145.3 |
| 10°   | 3358.6 | 2864.3 | 2293.4 | 1747.1 | 1254.6 | 904.0  | 722.0  | 654.6  | 617.3  | 618.2  |
| 12.5° | 3325.8 | 2658.5 | 1853.7 | 1184.5 | 763.8  | 577.2  | 520.8  | 504.4  | 493.4  | 494.4  |
| 15°   | 3309.5 | 2416.3 | 1419.4 | 789.4  | 546.2  | 488.9  | 475.3  | 468.0  | 460.7  | 459.8  |
| 17.5° | 3282.2 | 2146.9 | 1038.8 | 576.4  | 478.0  | 458.0  | 446.1  | 437.9  | 428.9  | 427.0  |
| 20°   | 3241.2 | 1840.9 | 759.3  | 487.1  | 447.9  | 432.4  | 416.0  | 405.2  | 394.2  | 392.4  |
| 22.5° | 3165.6 | 1517.7 | 583.6  | 450.7  | 426.1  | 408.8  | 388.8  | 376.0  | 365.1  | 363.3  |
| 25°   | 3025.4 | 1214.5 | 491.7  | 427.9  | 406.9  | 386.0  | 364.2  | 346.9  | 336.8  | 335.1  |
| 27.5° | 2847.9 | 954.2  | 446.1  | 406.9  | 382.4  | 363.3  | 338.7  | 322.3  | 313.2  | 311.4  |
| 30°   | 2638.5 | 734.7  | 419.7  | 383.2  | 353.2  | 336.8  | 315.0  | 301.3  | 295.9  | 295.9  |
| 32.5° | 2412.6 | 587.2  | 408.8  | 359.7  | 327.8  | 309.5  | 292.2  | 286.8  | 285.0  | 284.0  |
| 35°   | 2200.6 | 509.8  | 403.3  | 340.5  | 305.0  | 287.7  | 280.4  | 281.4  | 285.0  | 285.0  |
| 37.5° | 2012.1 | 485.2  | 400.6  | 326.9  | 285.0  | 269.5  | 274.1  | 282.3  | 278.6  | 278.6  |
| 40°   | 1841.8 | 488.0  | 398.8  | 316.8  | 268.5  | 259.4  | 268.5  | 262.2  | 253.1  | 252.2  |
| 42.5° | 1711.6 | 510.8  | 395.1  | 308.6  | 258.6  | 252.2  | 248.6  | 238.5  | 237.6  | 239.4  |
| 45°   | 1616.9 | 530.7  | 394.2  | 305.0  | 247.6  | 235.9  | 231.2  | 221.2  | 239.4  | 244.0  |
| 47.5° | 1505.0 | 530.7  | 394.2  | 292.2  | 229.4  | 224.9  | 217.6  | 206.6  | 224.9  | 229.4  |
| 50°   | 1360.2 | 497.1  | 378.7  | 277.7  | 214.8  | 212.2  | 199.4  | 185.7  | 182.0  | 184.8  |
| 52.5° | 1177.2 | 436.1  | 339.6  | 257.7  | 200.3  | 194.9  | 179.4  | 169.3  | 166.6  | 166.6  |
| 55°   | 968.7  | 365.1  | 286.8  | 228.5  | 184.8  | 174.8  | 163.9  | 159.3  | 156.6  | 154.8  |
| 57.5° | 787.5  | 299.5  | 230.3  | 203.1  | 170.3  | 157.5  | 153.9  | 148.4  | 143.8  | 141.1  |
| 60°   | 646.5  | 235.9  | 190.2  | 180.3  | 155.7  | 143.8  | 143.0  | 135.6  | 123.8  | 122.0  |
| 62.5° | 499.0  | 173.0  | 160.2  | 156.6  | 141.1  | 131.1  | 129.3  | 114.7  | 96.6   | 92.9   |
| 65°   | 352.3  | 134.8  | 129.3  | 137.5  | 125.7  | 116.5  | 112.0  | 90.1   | 71.0   | 68.3   |
| 67.5° | 247.6  | 112.9  | 102.0  | 120.1  | 109.3  | 97.4   | 94.7   | 76.5   | 59.1   | 57.4   |
| 70°   | 176.6  | 91.9   | 83.7   | 102.9  | 87.4   | 85.6   | 80.2   | 63.8   | 48.3   | 46.4   |
| 72.5° | 124.7  | 70.1   | 64.7   | 89.2   | 60.1   | 73.7   | 65.6   | 49.2   | 36.4   | 34.6   |
| 75°   | 91.9   | 50.1   | 45.5   | 51.9   | 43.7   | 55.6   | 46.4   | 32.8   | 22.8   | 21.8   |
| 77.5° | 67.3   | 31.9   | 27.3   | 25.5   | 25.5   | 34.6   | 25.5   | 13.6   | 10.0   | 9.1    |
| 80°   | 47.4   | 14.6   | 12.7   | 11.0   | 10.0   | 8.2    | 3.7    | 1.8    | 0.9    | 0.9    |
| 82.5° | 28.2   | 6.4    | 6.4    | 4.5    | 2.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 6.4    | 2.8    | 2.8    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.9    | 0.9    | 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    |

(END OF REPORT)