

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: P965097

Luminaire Tested: **NVN-SB3D-735-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965097  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB3D-735-U-T2U-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

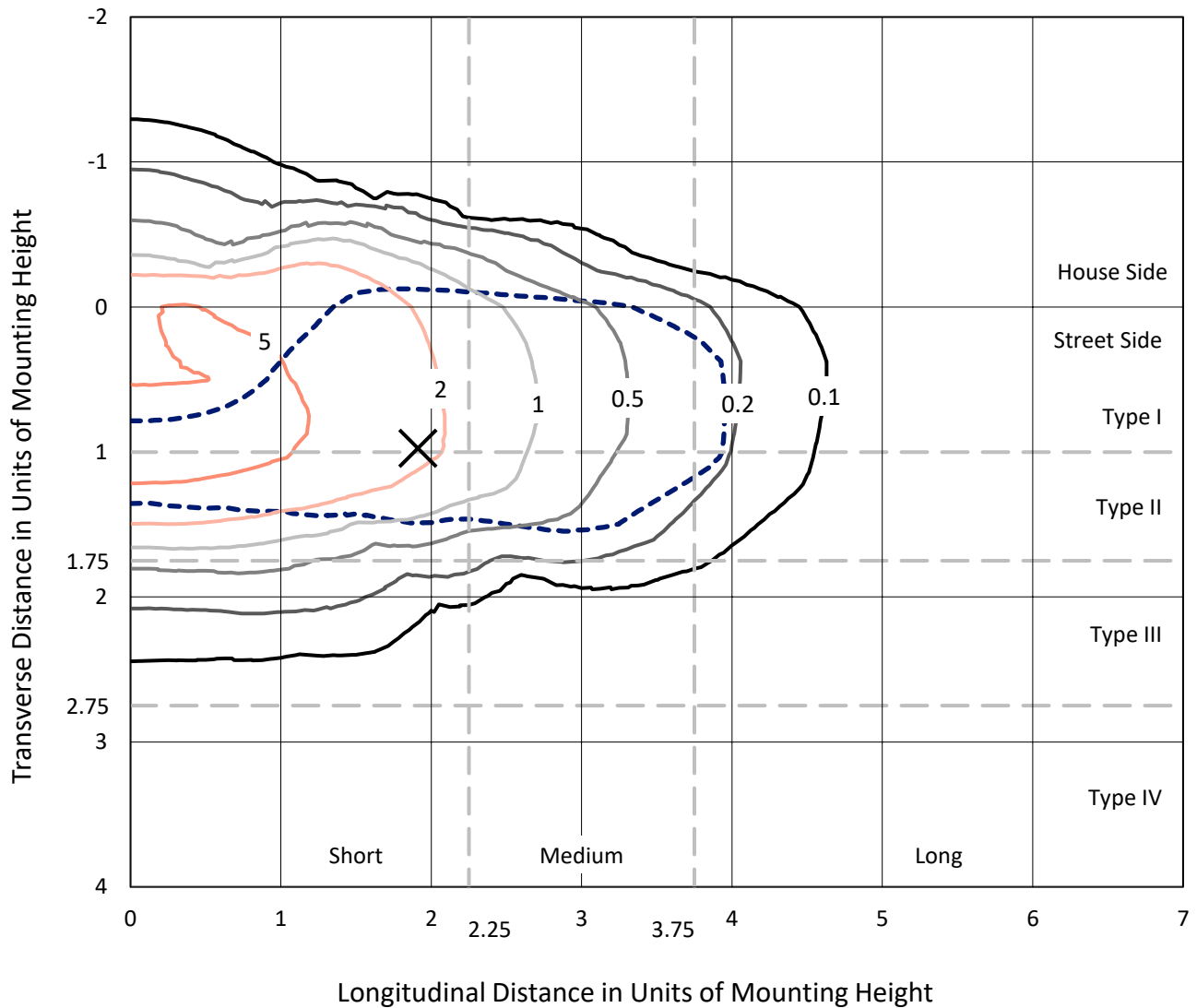
Lumens per Lamp: N/A  
Luminaire Lumens: 23917.3 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

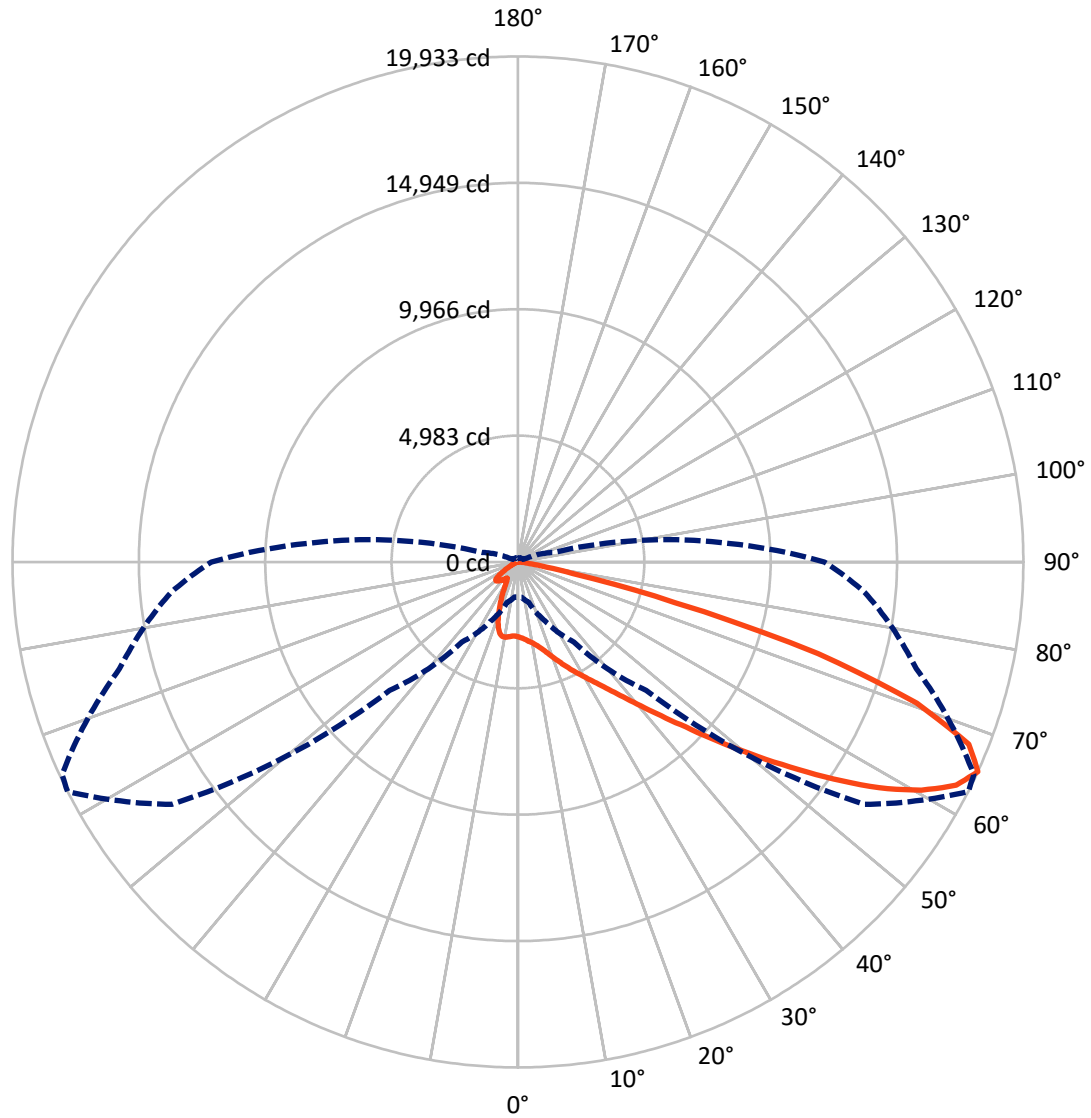
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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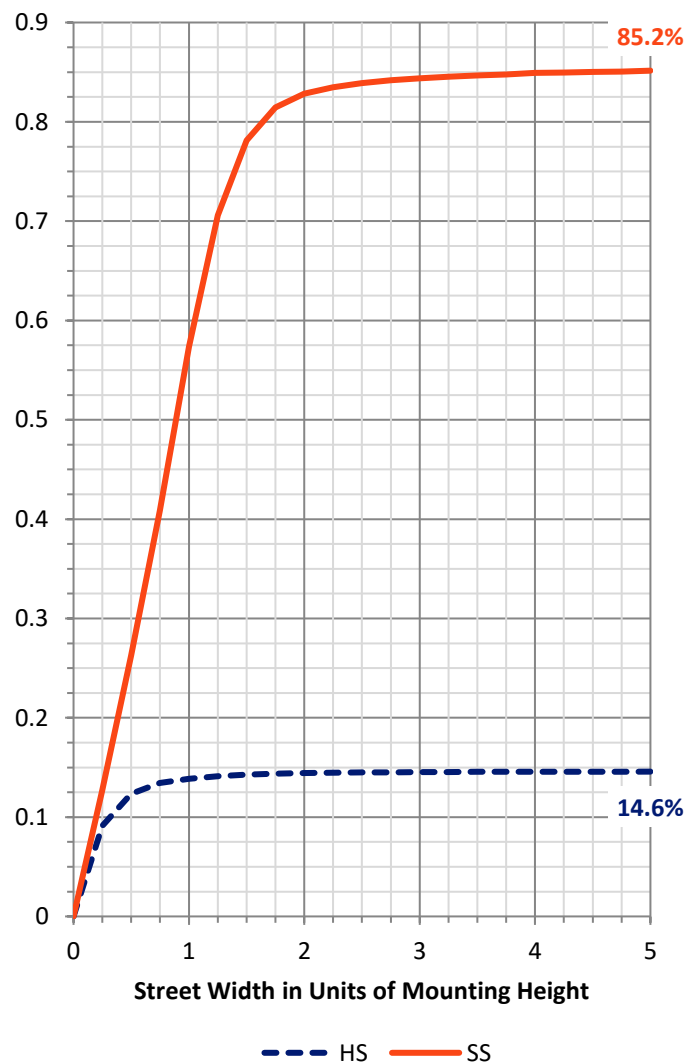
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3515.7   | 0.0    | 3515.7  |
|                    | % Fixture | 14.7     | 0.0    | 14.7    |
| <b>Street Side</b> | Lumens    | 20401.7  | 0.0    | 20401.7 |
|                    | % Fixture | 85.3     | 0.0    | 85.3    |
| <b>Total</b>       | Lumens    | 23917.3  | 0.0    | 23917.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 278.1   | 1.2       |
| 10°-20°   | 771.7   | 3.2       |
| 20°-30°   | 1343.7  | 5.6       |
| 30°-40°   | 2421.9  | 10.1      |
| 40°-50°   | 4803.3  | 20.1      |
| 50°-60°   | 6542.9  | 27.4      |
| 60°-70°   | 5222.5  | 21.8      |
| 70°-80°   | 2363.3  | 9.9       |
| 80°-90°   | 169.9   | 0.7       |
| 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°    | 23917.3 | 100.0     |
| 0°-180°   | 23917.3 | 100.0     |

**Coefficient of Utilization**



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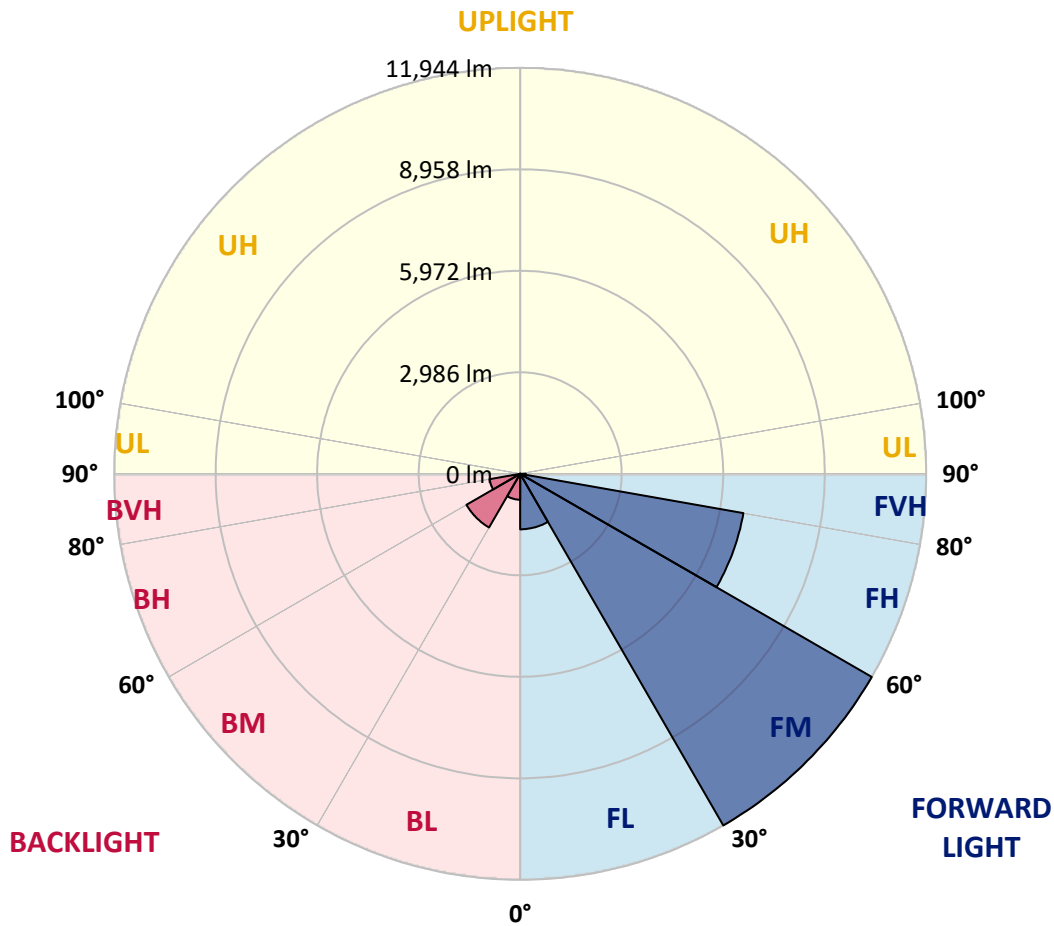
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 1632.7  | 6.8       |                         |      |         |
| FM (30°-60°)   | 11943.7 | 49.9      |                         |      |         |
| FH (60°-80°)   | 6668.0  | 27.9      |                         |      | G3/7500 |
| FVH (80°-90°)  | 157.3   | 0.7       |                         |      | G2/225  |
| BL (0°-30°)    | 760.8   | 3.2       | B2/1000                 |      |         |
| BM (30°-60°)   | 1824.4  | 7.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 917.8   | 3.8       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 12.6    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 63°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2951.9  | 2951.9  | 2951.9  | 2951.9  | 2951.9  | 2951.9  | 2951.9  | 2951.9  | 2951.9  | 2951.9  | 2951.9  |
| 2.5°  | 3021.0  | 3012.8  | 3024.3  | 3019.3  | 3016.1  | 3009.4  | 3006.1  | 3002.8  | 2996.3  | 2991.4  | 2971.6  |
| 5°    | 3029.2  | 3024.3  | 3035.7  | 3045.7  | 3055.5  | 3065.4  | 3070.3  | 3076.9  | 3070.3  | 3057.2  | 3037.4  |
| 7.5°  | 2960.1  | 2956.8  | 2981.5  | 3011.0  | 3055.5  | 3093.3  | 3134.4  | 3157.5  | 3159.2  | 3154.2  | 3132.8  |
| 10°   | 2955.2  | 2946.9  | 2971.6  | 3007.8  | 3065.4  | 3132.8  | 3205.3  | 3254.6  | 3261.1  | 3282.6  | 3259.5  |
| 12.5° | 3032.5  | 3024.3  | 3058.8  | 3098.3  | 3157.5  | 3228.2  | 3317.1  | 3386.2  | 3396.1  | 3425.8  | 3409.3  |
| 15°   | 3162.4  | 3151.0  | 3190.4  | 3241.5  | 3317.1  | 3397.8  | 3491.6  | 3554.1  | 3562.3  | 3598.5  | 3568.8  |
| 17.5° | 3313.8  | 3302.3  | 3348.4  | 3402.7  | 3485.0  | 3595.2  | 3703.8  | 3772.9  | 3782.8  | 3805.8  | 3751.5  |
| 20°   | 3508.0  | 3493.2  | 3529.4  | 3578.8  | 3665.9  | 3797.6  | 3927.6  | 4026.3  | 4024.7  | 4024.7  | 3935.8  |
| 22.5° | 3733.5  | 3710.4  | 3741.7  | 3781.1  | 3863.4  | 4023.0  | 4195.7  | 4312.6  | 4312.6  | 4266.6  | 4120.1  |
| 25°   | 3975.3  | 3952.3  | 3986.8  | 4023.0  | 4095.4  | 4276.4  | 4478.7  | 4623.6  | 4630.1  | 4551.2  | 4317.5  |
| 27.5° | 4278.0  | 4248.4  | 4274.8  | 4317.5  | 4360.3  | 4544.6  | 4784.8  | 4952.7  | 4956.0  | 4834.2  | 4505.1  |
| 30°   | 4860.5  | 4776.6  | 4694.3  | 4648.3  | 4668.1  | 4850.6  | 5107.4  | 5293.3  | 5309.7  | 5141.9  | 4709.2  |
| 32.5° | 5926.8  | 5910.3  | 5620.7  | 5242.3  | 5044.8  | 5179.7  | 5467.7  | 5691.4  | 5701.4  | 5485.8  | 4974.0  |
| 35°   | 7583.7  | 7563.9  | 7098.2  | 6377.5  | 5734.3  | 5620.7  | 5905.3  | 6170.3  | 6163.6  | 5920.2  | 5317.9  |
| 37.5° | 9561.4  | 9543.4  | 8929.6  | 7965.4  | 6923.9  | 6287.0  | 6469.7  | 6747.8  | 6788.9  | 6469.7  | 5762.2  |
| 40°   | 11251.2 | 11183.8 | 10795.5 | 9865.8  | 8503.4  | 7392.8  | 7272.7  | 7457.0  | 7499.7  | 7121.3  | 6326.6  |
| 42.5° | 12531.3 | 12473.8 | 12276.3 | 11695.6 | 10415.4 | 9028.3  | 8218.8  | 8289.6  | 8337.2  | 7883.2  | 6974.8  |
| 45°   | 13194.5 | 13181.3 | 13260.3 | 13206.0 | 12363.6 | 11035.8 | 9571.3  | 9276.8  | 9294.9  | 8727.3  | 7710.4  |
| 47.5° | 13288.3 | 13281.6 | 13642.0 | 14152.1 | 14038.6 | 13299.8 | 11307.2 | 10507.6 | 10443.4 | 9679.9  | 8510.1  |
| 50°   | 12735.4 | 12722.3 | 13413.4 | 14369.3 | 15157.5 | 15201.9 | 13278.4 | 11894.6 | 11753.2 | 10665.5 | 9344.2  |
| 52.5° | 10969.9 | 10966.6 | 12102.0 | 13693.1 | 15550.7 | 16867.0 | 15226.6 | 13418.3 | 13181.3 | 11708.7 | 10226.2 |
| 55°   | 8440.9  | 8501.8  | 9803.3  | 11684.0 | 14833.3 | 17668.3 | 16975.6 | 15109.7 | 14746.1 | 12758.5 | 11039.0 |
| 57.5° | 5979.4  | 6068.2  | 7355.0  | 9029.9  | 12608.7 | 17194.5 | 18158.7 | 16804.5 | 16412.9 | 13804.9 | 11863.3 |
| 60°   | 3211.8  | 3290.8  | 4579.2  | 6578.3  | 9380.5  | 15427.3 | 18782.3 | 18275.4 | 17905.3 | 14798.7 | 12607.1 |
| 62.5° | 1913.6  | 1939.9  | 2473.0  | 4246.8  | 6344.6  | 11786.1 | 18517.3 | 19396.0 | 19091.6 | 15633.0 | 13253.8 |
| 65°   | 1373.9  | 1378.8  | 1647.1  | 2593.1  | 3851.8  | 7160.8  | 16659.7 | 19932.5 | 19838.7 | 16261.5 | 13732.5 |
| 67.5° | 1156.7  | 1153.4  | 1265.4  | 1722.7  | 2624.4  | 3587.0  | 12768.3 | 19173.9 | 19572.1 | 16659.7 | 14004.1 |
| 70°   | 992.2   | 997.1   | 1128.7  | 1262.0  | 1972.8  | 2030.4  | 6347.9  | 16694.3 | 17543.3 | 16765.0 | 13987.6 |
| 72.5° | 738.8   | 755.2   | 877.0   | 1150.2  | 1489.1  | 1397.0  | 2191.7  | 12378.4 | 13913.6 | 15795.9 | 13262.0 |
| 75°   | 521.6   | 529.8   | 617.0   | 967.5   | 1110.7  | 1016.9  | 1118.9  | 6399.0  | 8366.9  | 12110.2 | 10854.7 |
| 77.5° | 401.5   | 416.3   | 467.3   | 676.3   | 1094.2  | 714.1   | 684.5   | 2214.7  | 3402.7  | 7315.4  | 7442.1  |
| 80°   | 217.2   | 243.5   | 337.3   | 488.7   | 768.4   | 505.1   | 339.0   | 881.9   | 1153.4  | 3420.8  | 2869.6  |
| 82.5° | 111.9   | 125.0   | 235.3   | 352.1   | 437.7   | 441.0   | 167.8   | 367.0   | 475.5   | 1056.4  | 393.3   |
| 85°   | 44.4    | 54.3    | 158.0   | 194.1   | 225.4   | 217.2   | 75.6    | 148.1   | 171.1   | 292.8   | 120.1   |
| 87.5° | 9.8     | 16.5    | 57.6    | 44.4    | 42.7    | 46.0    | 18.1    | 34.5    | 32.9    | 34.5    | 21.4    |
| 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°    | 2951.9  | 2951.9 | 2951.9 | 2951.9 | 2951.9 | 2951.9 | 2951.9 | 2951.9 | 2951.9 | 2951.9 | 2951.9 |
| 2.5°  | 2969.9  | 2963.4 | 2945.2 | 2925.6 | 2902.5 | 2889.4 | 2881.1 | 2879.4 | 2868.0 | 2859.7 | 2868.0 |
| 5°    | 3019.3  | 3012.8 | 2978.1 | 2937.0 | 2892.7 | 2858.1 | 2825.2 | 2795.6 | 2752.7 | 2744.5 | 2741.3 |
| 7.5°  | 3118.0  | 3099.9 | 3044.0 | 2988.1 | 2904.1 | 2803.8 | 2682.0 | 2542.1 | 2417.1 | 2379.2 | 2361.2 |
| 10°   | 3239.8  | 3215.1 | 3144.4 | 3045.7 | 2859.7 | 2586.6 | 2292.0 | 2018.9 | 1801.7 | 1740.9 | 1717.8 |
| 12.5° | 3378.0  | 3356.7 | 3262.9 | 3080.2 | 2673.8 | 2178.5 | 1727.6 | 1388.7 | 1178.1 | 1125.4 | 1110.7 |
| 15°   | 3542.5  | 3511.2 | 3381.3 | 3027.5 | 2341.4 | 1655.3 | 1186.3 | 985.6  | 909.9  | 900.1  | 890.2  |
| 17.5° | 3717.0  | 3665.9 | 3486.6 | 2838.3 | 1893.9 | 1176.5 | 916.5  | 859.0  | 825.9  | 816.1  | 811.2  |
| 20°   | 3876.6  | 3810.7 | 3549.2 | 2552.0 | 1415.0 | 916.5  | 821.0  | 783.2  | 753.6  | 742.1  | 735.5  |
| 22.5° | 4036.1  | 3942.4 | 3549.2 | 2162.0 | 1061.3 | 812.8  | 753.6  | 719.0  | 684.5  | 669.6  | 661.4  |
| 25°   | 4202.4  | 4077.3 | 3486.6 | 1727.6 | 853.9  | 745.4  | 689.4  | 651.6  | 622.0  | 603.8  | 597.3  |
| 27.5° | 4363.6  | 4190.8 | 3343.4 | 1316.3 | 760.1  | 686.1  | 630.2  | 594.0  | 566.0  | 552.9  | 552.9  |
| 30°   | 4516.7  | 4302.7 | 3142.8 | 998.8  | 699.3  | 628.5  | 575.8  | 544.6  | 516.7  | 503.5  | 505.1  |
| 32.5° | 4723.9  | 4444.2 | 2928.8 | 819.4  | 646.7  | 574.2  | 526.5  | 496.9  | 472.2  | 462.4  | 462.4  |
| 35°   | 5011.9  | 4653.2 | 2744.5 | 804.6  | 602.2  | 529.8  | 482.1  | 454.2  | 429.5  | 421.2  | 421.2  |
| 37.5° | 5420.0  | 4990.5 | 2647.5 | 903.3  | 566.0  | 490.4  | 445.9  | 416.3  | 393.3  | 386.6  | 385.0  |
| 40°   | 5923.5  | 5448.0 | 2700.1 | 1002.0 | 541.3  | 455.8  | 413.0  | 383.3  | 363.7  | 355.4  | 353.7  |
| 42.5° | 6520.7  | 6012.3 | 2991.4 | 1077.8 | 524.9  | 426.2  | 381.7  | 348.8  | 335.7  | 332.4  | 332.4  |
| 45°   | 7206.9  | 6632.6 | 3437.2 | 1158.4 | 498.6  | 398.2  | 350.4  | 325.7  | 315.9  | 314.3  | 312.6  |
| 47.5° | 7986.8  | 7313.8 | 3953.9 | 1258.7 | 472.2  | 371.9  | 325.7  | 309.3  | 301.1  | 297.9  | 297.9  |
| 50°   | 8760.2  | 7999.9 | 4485.4 | 1314.7 | 450.8  | 347.2  | 306.1  | 292.8  | 286.3  | 284.6  | 284.6  |
| 52.5° | 9569.7  | 8705.8 | 4914.8 | 1262.0 | 432.8  | 327.4  | 289.6  | 279.7  | 273.2  | 271.5  | 271.5  |
| 55°   | 10341.3 | 9276.8 | 4988.9 | 1071.1 | 396.6  | 307.7  | 271.5  | 266.6  | 258.3  | 258.3  | 256.7  |
| 57.5° | 11006.1 | 9563.0 | 4465.6 | 786.5  | 360.4  | 278.1  | 253.4  | 248.5  | 241.9  | 240.3  | 238.6  |
| 60°   | 11616.5 | 9480.8 | 3447.1 | 529.8  | 320.8  | 248.5  | 230.3  | 227.0  | 220.5  | 212.3  | 210.6  |
| 62.5° | 11960.4 | 9118.8 | 2357.9 | 345.5  | 281.4  | 217.2  | 204.1  | 202.3  | 187.6  | 171.1  | 167.8  |
| 65°   | 12090.4 | 8375.1 | 1471.0 | 251.7  | 235.3  | 185.9  | 176.1  | 172.8  | 151.4  | 133.2  | 131.6  |
| 67.5° | 11976.9 | 7150.9 | 742.1  | 199.1  | 185.9  | 154.7  | 144.8  | 144.8  | 130.0  | 113.6  | 111.9  |
| 70°   | 11522.7 | 5360.7 | 312.6  | 159.6  | 143.2  | 118.5  | 118.5  | 125.0  | 110.3  | 92.1   | 90.5   |
| 72.5° | 10537.2 | 3606.8 | 166.2  | 121.8  | 106.9  | 83.9   | 97.1   | 102.0  | 87.2   | 69.1   | 69.1   |
| 75°   | 8376.7  | 2199.9 | 115.2  | 90.5   | 67.4   | 59.2   | 74.0   | 77.3   | 59.2   | 46.0   | 44.4   |
| 77.5° | 5729.3  | 1263.6 | 77.3   | 57.6   | 42.7   | 34.5   | 51.0   | 47.8   | 31.3   | 21.4   | 23.1   |
| 80°   | 2515.9  | 526.5  | 44.4   | 26.3   | 16.5   | 13.1   | 18.1   | 13.1   | 9.8    | 6.6    | 6.6    |
| 82.5° | 294.5   | 123.4  | 16.5   | 9.8    | 6.6    | 3.3    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 60.9    | 14.8   | 8.2    | 3.3    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 11.5    | 3.3    | 1.6    | 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)