

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: P885169

Luminaire Tested: **NVN-SB6B-827-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885169  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6B-827-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

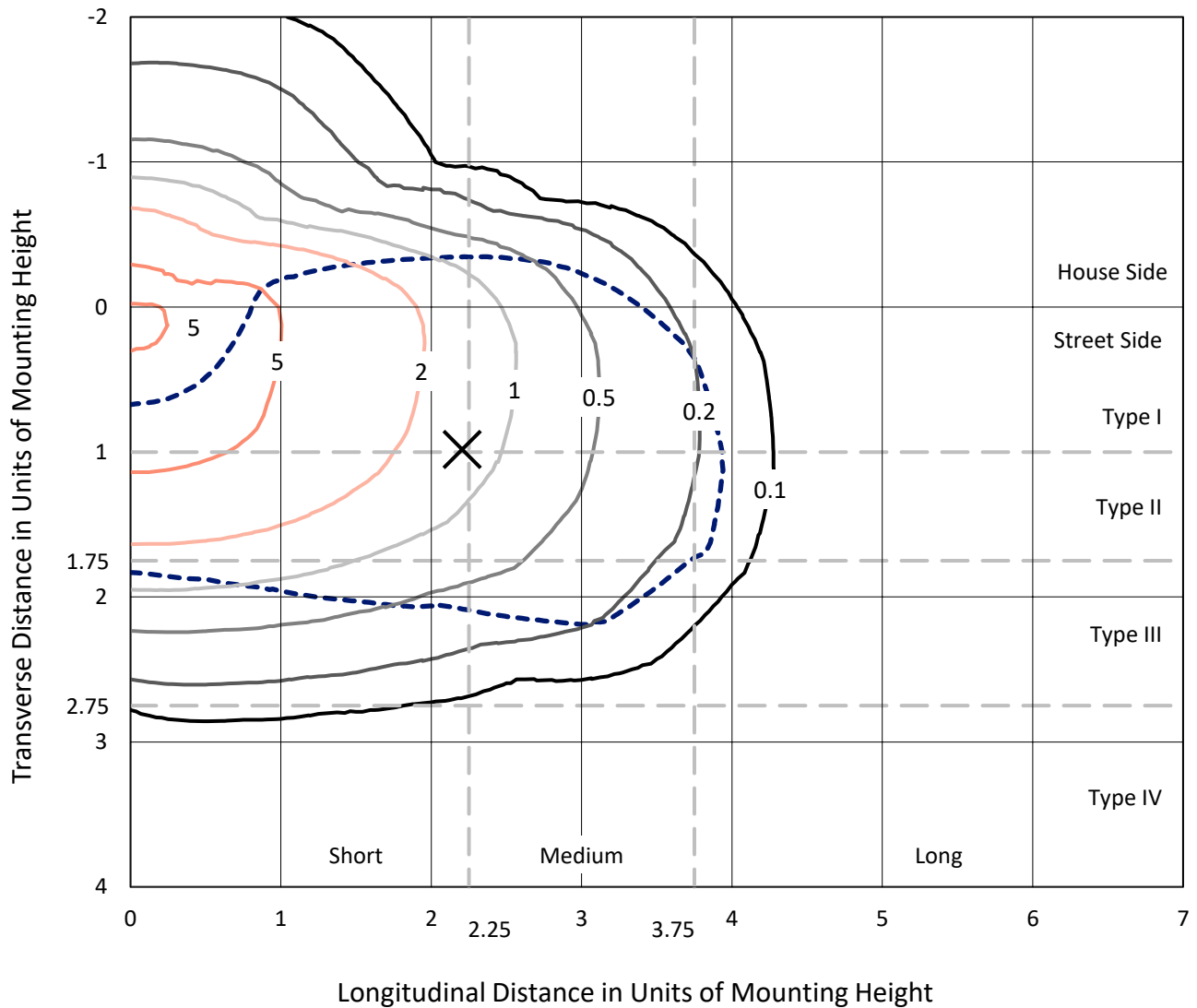
Lumens per Lamp: N/A  
Luminaire Lumens: 27789 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): 120.0  
Input Current (Ain): 1.838  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 8.657  
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

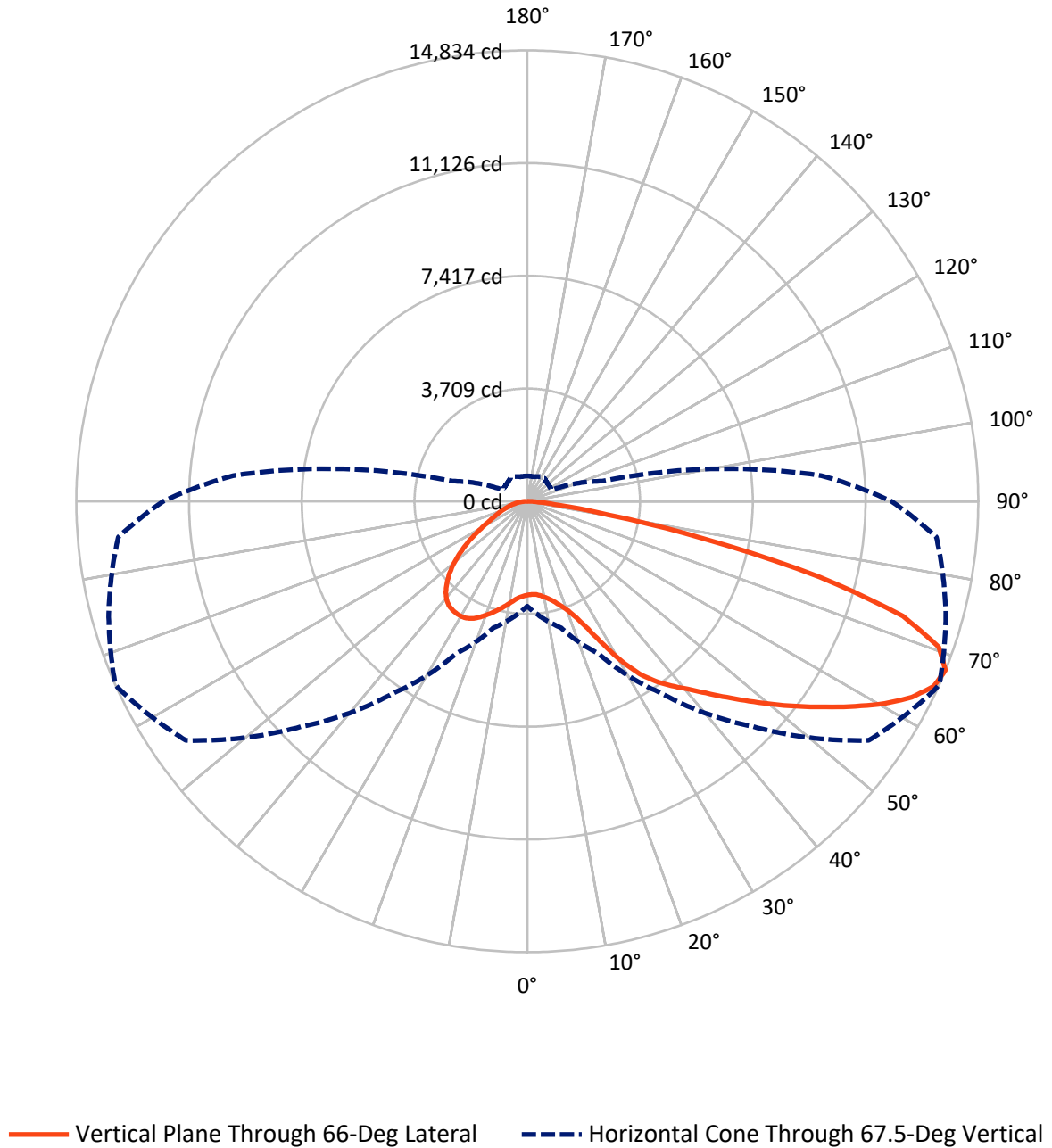
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6909.7   | 0.0    | 6909.7  |
|                    | % Fixture | 24.9     | 0.0    | 24.9    |
| <b>Street Side</b> | Lumens    | 20879.3  | 0.0    | 20879.3 |
|                    | % Fixture | 75.1     | 0.0    | 75.1    |
| <b>Total</b>       | Lumens    | 27789.0  | 0.0    | 27789.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 305.6   | 1.1       |
| 10°-20°   | 1009.6  | 3.6       |
| 20°-30°   | 1946.0  | 7.0       |
| 30°-40°   | 3412.0  | 12.3      |
| 40°-50°   | 5072.5  | 18.3      |
| 50°-60°   | 6429.9  | 23.1      |
| 60°-70°   | 6291.5  | 22.6      |
| 70°-80°   | 3001.1  | 10.8      |
| 80°-90°   | 320.7   | 1.2       |
| 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°    | 27789.0 | 100.0     |
| 0°-180°   | 27789.0 | 100.0     |

**Coefficient of Utilization**



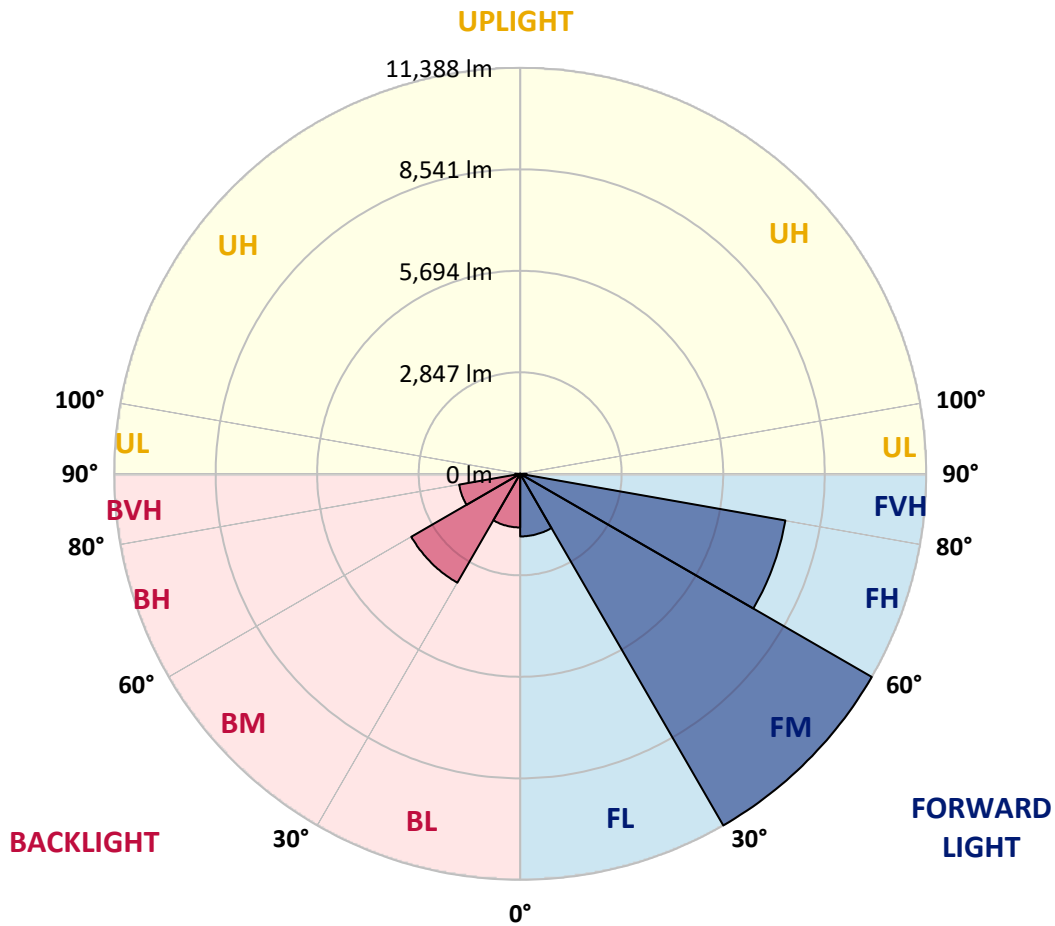
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1756.0  | 6.3       |                         |      |          |
| FM (30°-60°)   | 11387.7 | 41.0      |                         |      |          |
| FH (60°-80°)   | 7553.8  | 27.2      |                         |      | G4/12000 |
| FVH (80°-90°)  | 181.8   | 0.7       |                         |      | G2/225   |
| BL (0°-30°)    | 1505.2  | 5.4       | B3/2500                 |      |          |
| BM (30°-60°)   | 3526.8  | 12.7      | B3/5000                 |      |          |
| BH (60°-80°)   | 1738.8  | 6.3       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 138.9   | 0.5       |                         |      | 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 Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3082.2  | 3082.2  | 3082.2  | 3082.2  | 3082.2  | 3082.2  | 3082.2  | 3082.2  | 3082.2  | 3082.2  | 3082.2  |
| 2.5°  | 3050.0  | 3067.6  | 3063.2  | 3055.9  | 3054.4  | 3057.3  | 3061.7  | 3066.1  | 3064.6  | 3071.9  | 3083.6  |
| 5°    | 3041.3  | 3058.8  | 3057.3  | 3057.3  | 3063.2  | 3074.9  | 3082.2  | 3089.5  | 3082.2  | 3090.9  | 3107.0  |
| 7.5°  | 3047.1  | 3060.3  | 3066.1  | 3071.9  | 3086.5  | 3108.4  | 3126.0  | 3142.0  | 3133.3  | 3143.5  | 3163.9  |
| 10°   | 3121.6  | 3131.8  | 3137.6  | 3137.6  | 3147.9  | 3172.7  | 3190.2  | 3219.4  | 3212.1  | 3228.2  | 3254.5  |
| 12.5° | 3257.4  | 3267.6  | 3267.6  | 3261.8  | 3269.1  | 3285.1  | 3291.0  | 3323.1  | 3309.9  | 3336.2  | 3362.5  |
| 15°   | 3423.8  | 3444.3  | 3428.2  | 3418.0  | 3420.9  | 3437.0  | 3435.5  | 3460.3  | 3447.2  | 3469.1  | 3492.4  |
| 17.5° | 3607.8  | 3634.1  | 3607.8  | 3606.3  | 3600.5  | 3618.0  | 3619.5  | 3641.4  | 3618.0  | 3634.1  | 3650.1  |
| 20°   | 3825.3  | 3861.8  | 3839.9  | 3847.2  | 3834.1  | 3841.4  | 3848.7  | 3880.8  | 3844.3  | 3856.0  | 3851.6  |
| 22.5° | 4131.9  | 4175.7  | 4152.4  | 4180.1  | 4171.4  | 4165.5  | 4164.1  | 4221.0  | 4164.1  | 4168.4  | 4126.1  |
| 25°   | 4578.7  | 4631.3  | 4590.4  | 4628.4  | 4628.4  | 4647.3  | 4669.2  | 4742.2  | 4647.3  | 4619.6  | 4510.1  |
| 27.5° | 5238.7  | 5291.2  | 5210.9  | 5234.3  | 5227.0  | 5273.7  | 5250.3  | 5431.4  | 5329.2  | 5283.9  | 5063.5  |
| 30°   | 6032.9  | 6126.4  | 5974.5  | 5968.7  | 5961.4  | 6035.9  | 6069.4  | 6189.2  | 6085.5  | 6040.2  | 5774.5  |
| 32.5° | 6891.4  | 6989.3  | 6808.2  | 6755.7  | 6727.9  | 6773.2  | 6745.4  | 6841.8  | 6770.3  | 6700.2  | 6371.7  |
| 35°   | 7799.6  | 7896.0  | 7723.7  | 7621.5  | 7510.5  | 7415.6  | 7316.3  | 7341.1  | 7274.0  | 7167.4  | 6827.2  |
| 37.5° | 8658.1  | 8834.8  | 8652.3  | 8542.8  | 8338.4  | 8152.9  | 7875.5  | 7760.2  | 7697.4  | 7599.6  | 7256.5  |
| 40°   | 9532.7  | 9633.4  | 9494.7  | 9401.3  | 9179.3  | 8888.8  | 8444.9  | 8201.1  | 8116.4  | 8021.5  | 7731.0  |
| 42.5° | 10176.6 | 10272.9 | 10198.5 | 10134.2 | 9960.5  | 9623.2  | 9049.4  | 8744.2  | 8621.6  | 8515.0  | 8268.3  |
| 45°   | 10687.6 | 10759.1 | 10712.4 | 10735.8 | 10661.3 | 10334.2 | 9675.8  | 9326.8  | 9199.8  | 9069.8  | 8875.6  |
| 47.5° | 10893.4 | 10969.4 | 11043.8 | 11182.5 | 11309.6 | 11068.6 | 10348.8 | 9957.5  | 9823.2  | 9690.4  | 9499.1  |
| 50°   | 10870.1 | 10947.5 | 11163.5 | 11458.5 | 11852.7 | 11772.4 | 11058.4 | 10629.2 | 10505.1 | 10353.2 | 10176.6 |
| 52.5° | 10683.2 | 10770.8 | 11048.2 | 11538.8 | 12166.6 | 12299.5 | 11781.2 | 11322.7 | 11205.9 | 11024.8 | 10848.2 |
| 55°   | 10192.6 | 10245.2 | 10661.3 | 11356.3 | 12241.1 | 12667.4 | 12489.3 | 12061.5 | 11944.7 | 11692.1 | 11499.4 |
| 57.5° | 9283.0  | 9358.9  | 9964.8  | 10864.2 | 12054.2 | 12917.1 | 13111.3 | 12838.2 | 12725.8 | 12362.3 | 12160.8 |
| 60°   | 8096.0  | 8217.2  | 8910.7  | 10037.8 | 11578.2 | 12915.6 | 13676.3 | 13601.8 | 13508.4 | 13022.2 | 12811.9 |
| 62.5° | 6752.7  | 6892.9  | 7560.1  | 8869.8  | 10746.0 | 12549.1 | 14029.6 | 14241.3 | 14193.2 | 13631.0 | 13362.4 |
| 65°   | 5186.1  | 5282.5  | 5946.8  | 7358.7  | 9450.9  | 11762.2 | 14070.5 | 14677.9 | 14686.7 | 14093.9 | 13650.0 |
| 67.5° | 3453.0  | 3730.4  | 4307.2  | 5521.9  | 7716.4  | 10475.9 | 13711.3 | 14749.4 | 14834.1 | 14253.0 | 13505.5 |
| 70°   | 1684.9  | 2049.9  | 2615.0  | 3588.8  | 5521.9  | 8503.3  | 12772.5 | 14162.5 | 14350.8 | 13788.7 | 12644.0 |
| 72.5° | 699.4   | 817.6   | 1125.7  | 1771.0  | 3169.8  | 5738.0  | 10886.1 | 12571.0 | 12920.0 | 12217.7 | 10630.6 |
| 75°   | 471.6   | 511.0   | 643.9   | 908.2   | 1444.0  | 2829.6  | 7850.7  | 9373.5  | 9935.6  | 9227.5  | 7542.6  |
| 77.5° | 363.6   | 388.4   | 468.7   | 635.1   | 858.5   | 1070.2  | 4202.0  | 5648.9  | 5939.5  | 5498.6  | 3924.6  |
| 80°   | 286.2   | 305.2   | 350.4   | 462.8   | 608.8   | 572.3   | 1432.3  | 2559.5  | 2727.4  | 2287.9  | 1261.5  |
| 82.5° | 248.2   | 255.5   | 251.1   | 313.9   | 404.4   | 334.4   | 470.1   | 944.7   | 1042.5  | 756.3   | 411.7   |
| 85°   | 179.6   | 200.0   | 208.8   | 194.2   | 214.6   | 169.4   | 192.7   | 334.4   | 367.9   | 328.5   | 232.1   |
| 87.5° | 73.0    | 108.0   | 132.9   | 125.6   | 78.8    | 48.2    | 59.9    | 97.8    | 112.4   | 122.6   | 75.9    |
| 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°    | 3082.2  | 3082.2  | 3082.2 | 3082.2 | 3082.2 | 3082.2 | 3082.2 | 3082.2 | 3082.2 | 3082.2 | 3082.2 |
| 2.5°  | 3085.1  | 3095.3  | 3102.6 | 3111.4 | 3117.2 | 3126.0 | 3143.5 | 3153.7 | 3155.2 | 3162.5 | 3161.0 |
| 5°    | 3112.8  | 3127.4  | 3143.5 | 3166.9 | 3193.1 | 3215.0 | 3248.6 | 3272.0 | 3280.7 | 3288.0 | 3286.6 |
| 7.5°  | 3172.7  | 3193.1  | 3222.3 | 3263.2 | 3301.2 | 3330.4 | 3371.3 | 3399.0 | 3426.7 | 3437.0 | 3438.4 |
| 10°   | 3261.8  | 3291.0  | 3333.3 | 3388.8 | 3429.7 | 3467.6 | 3510.0 | 3533.3 | 3561.1 | 3572.7 | 3578.6 |
| 12.5° | 3372.7  | 3403.4  | 3458.9 | 3536.2 | 3574.2 | 3600.5 | 3615.1 | 3609.2 | 3615.1 | 3625.3 | 3628.2 |
| 15°   | 3499.7  | 3533.3  | 3596.1 | 3679.3 | 3705.6 | 3682.2 | 3650.1 | 3620.9 | 3616.5 | 3619.5 | 3629.7 |
| 17.5° | 3650.1  | 3674.9  | 3748.0 | 3818.0 | 3799.1 | 3702.7 | 3632.6 | 3585.9 | 3562.5 | 3555.2 | 3565.4 |
| 20°   | 3860.4  | 3860.4  | 3920.2 | 3964.0 | 3837.0 | 3673.5 | 3564.0 | 3488.1 | 3439.9 | 3419.4 | 3415.1 |
| 22.5° | 4115.9  | 4092.5  | 4130.5 | 4099.8 | 3829.7 | 3591.7 | 3439.9 | 3308.5 | 3235.5 | 3206.3 | 3201.9 |
| 25°   | 4440.0  | 4412.3  | 4402.1 | 4212.2 | 3777.2 | 3461.8 | 3215.0 | 3055.9 | 2991.6 | 2975.6 | 2978.5 |
| 27.5° | 4929.1  | 4859.0  | 4726.2 | 4273.6 | 3680.8 | 3257.4 | 2952.2 | 2804.8 | 2768.3 | 2769.7 | 2774.1 |
| 30°   | 5580.3  | 5440.1  | 5114.6 | 4283.8 | 3523.1 | 2968.3 | 2683.6 | 2578.4 | 2560.9 | 2568.2 | 2593.1 |
| 32.5° | 6183.3  | 6050.5  | 5511.7 | 4237.1 | 3280.7 | 2685.0 | 2442.7 | 2372.6 | 2346.3 | 2355.1 | 2366.7 |
| 35°   | 6656.4  | 6619.9  | 5879.6 | 4171.4 | 2982.9 | 2419.3 | 2226.6 | 2166.7 | 2115.6 | 2103.9 | 2112.7 |
| 37.5° | 7103.1  | 7088.5  | 6155.6 | 4079.4 | 2688.0 | 2231.0 | 2052.8 | 1974.0 | 1899.5 | 1858.6 | 1860.1 |
| 40°   | 7593.7  | 7579.1  | 6336.6 | 3937.8 | 2426.6 | 2067.4 | 1896.6 | 1792.9 | 1701.0 | 1626.5 | 1633.8 |
| 42.5° | 8145.6  | 8059.5  | 6422.8 | 3734.8 | 2204.7 | 1928.7 | 1769.6 | 1629.4 | 1508.2 | 1439.6 | 1444.0 |
| 45°   | 8748.6  | 8554.4  | 6421.3 | 3476.4 | 2017.8 | 1801.7 | 1633.8 | 1435.2 | 1322.8 | 1258.6 | 1255.6 |
| 47.5° | 9388.1  | 9027.5  | 6342.5 | 3190.2 | 1836.7 | 1661.5 | 1423.5 | 1271.7 | 1197.2 | 1157.8 | 1149.1 |
| 50°   | 10048.1 | 9469.9  | 6208.1 | 2861.7 | 1651.3 | 1502.4 | 1292.1 | 1188.5 | 1131.5 | 1095.0 | 1081.9 |
| 52.5° | 10668.6 | 9871.4  | 6046.1 | 2489.4 | 1463.0 | 1347.6 | 1233.7 | 1153.4 | 1093.6 | 1052.7 | 1035.2 |
| 55°   | 11245.3 | 10217.4 | 5816.8 | 2108.3 | 1309.7 | 1244.0 | 1206.0 | 1138.8 | 1070.2 | 1022.0 | 1003.1 |
| 57.5° | 11757.8 | 10442.3 | 5421.2 | 1750.6 | 1200.2 | 1172.4 | 1176.8 | 1114.0 | 1035.2 | 994.3  | 968.0  |
| 60°   | 12184.1 | 10607.3 | 4835.7 | 1419.2 | 1111.1 | 1102.3 | 1131.5 | 1067.3 | 975.3  | 928.6  | 908.2  |
| 62.5° | 12439.6 | 10604.3 | 4117.3 | 1162.2 | 1035.2 | 1038.1 | 1071.7 | 1008.9 | 915.5  | 871.7  | 858.5  |
| 65°   | 12417.7 | 10344.5 | 3328.9 | 994.3  | 962.2  | 965.1  | 1008.9 | 944.7  | 865.8  | 839.5  | 838.1  |
| 67.5° | 11978.3 | 9710.8  | 2553.6 | 884.8  | 881.9  | 895.0  | 946.1  | 900.9  | 835.1  | 832.2  | 836.6  |
| 70°   | 10788.3 | 8395.3  | 1839.7 | 797.2  | 798.6  | 817.6  | 884.8  | 873.1  | 819.1  | 824.9  | 823.5  |
| 72.5° | 8650.8  | 6400.9  | 1235.2 | 705.2  | 706.7  | 737.3  | 826.4  | 851.2  | 803.0  | 880.4  | 892.1  |
| 75°   | 5761.4  | 3991.8  | 794.3  | 607.4  | 608.8  | 648.3  | 775.3  | 808.9  | 759.2  | 877.5  | 884.8  |
| 77.5° | 2768.3  | 1794.4  | 575.3  | 511.0  | 511.0  | 547.5  | 670.2  | 724.2  | 646.8  | 681.8  | 624.9  |
| 80°   | 956.3   | 674.5   | 452.6  | 411.7  | 403.0  | 427.8  | 565.0  | 627.8  | 557.7  | 513.9  | 481.8  |
| 82.5° | 376.7   | 350.4   | 363.6  | 319.8  | 290.6  | 306.6  | 439.5  | 518.3  | 410.3  | 370.9  | 369.4  |
| 85°   | 216.1   | 227.8   | 257.0  | 211.7  | 167.9  | 188.3  | 322.7  | 372.3  | 309.5  | 273.0  | 278.9  |
| 87.5° | 58.4    | 80.3    | 118.3  | 109.5  | 75.9   | 80.3   | 153.3  | 205.9  | 178.1  | 137.2  | 141.6  |
| 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)