

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: P884969

Luminaire Tested: **NVN-SB6A-740-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884969  
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-SB6A-740-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29374 lumens  
Efficiency: N/A  
Efficacy: 171.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

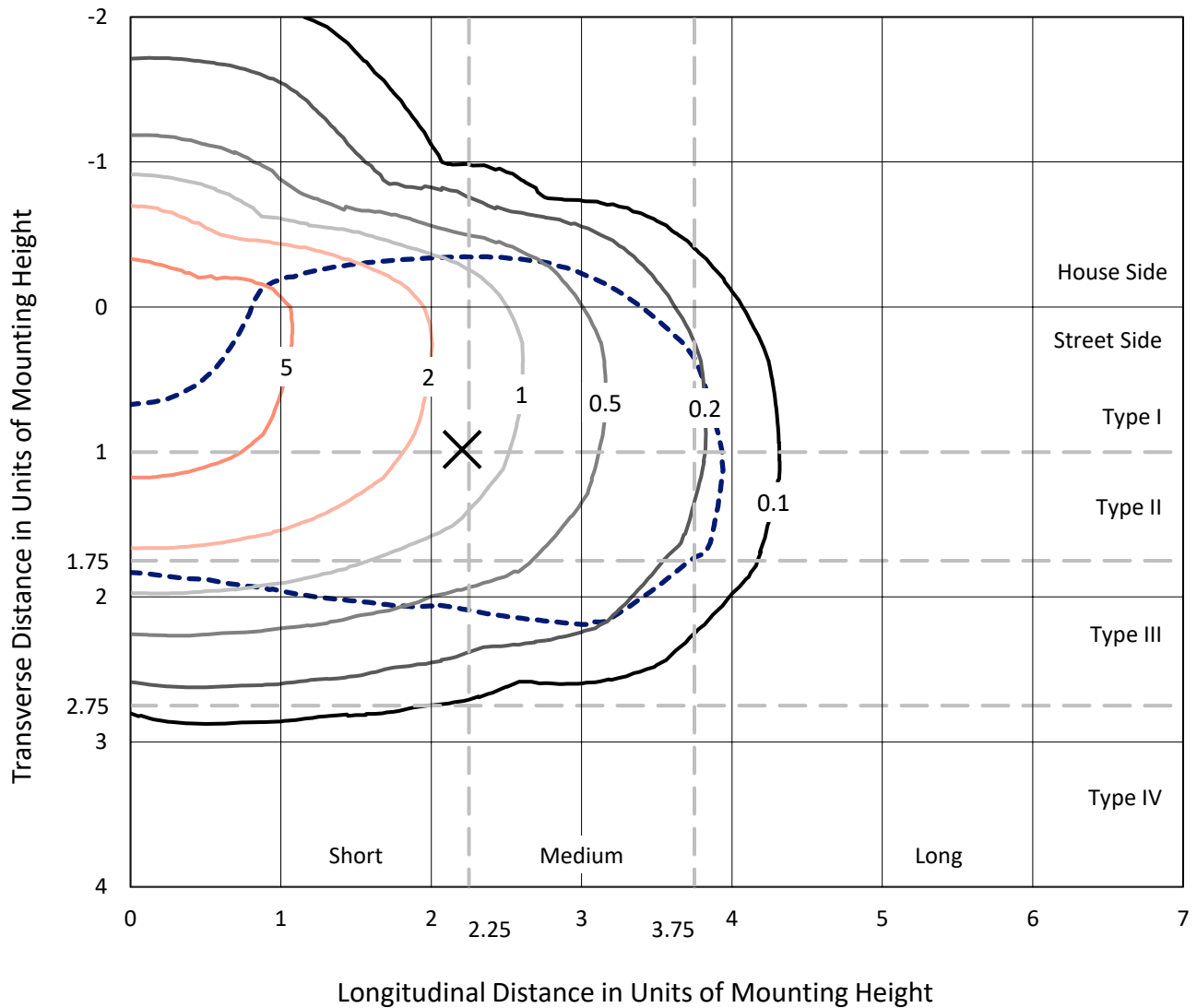
Input Watts (W): 170.9  
Input Voltage (V): 120.0  
Input Current (Ain): 1.434  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

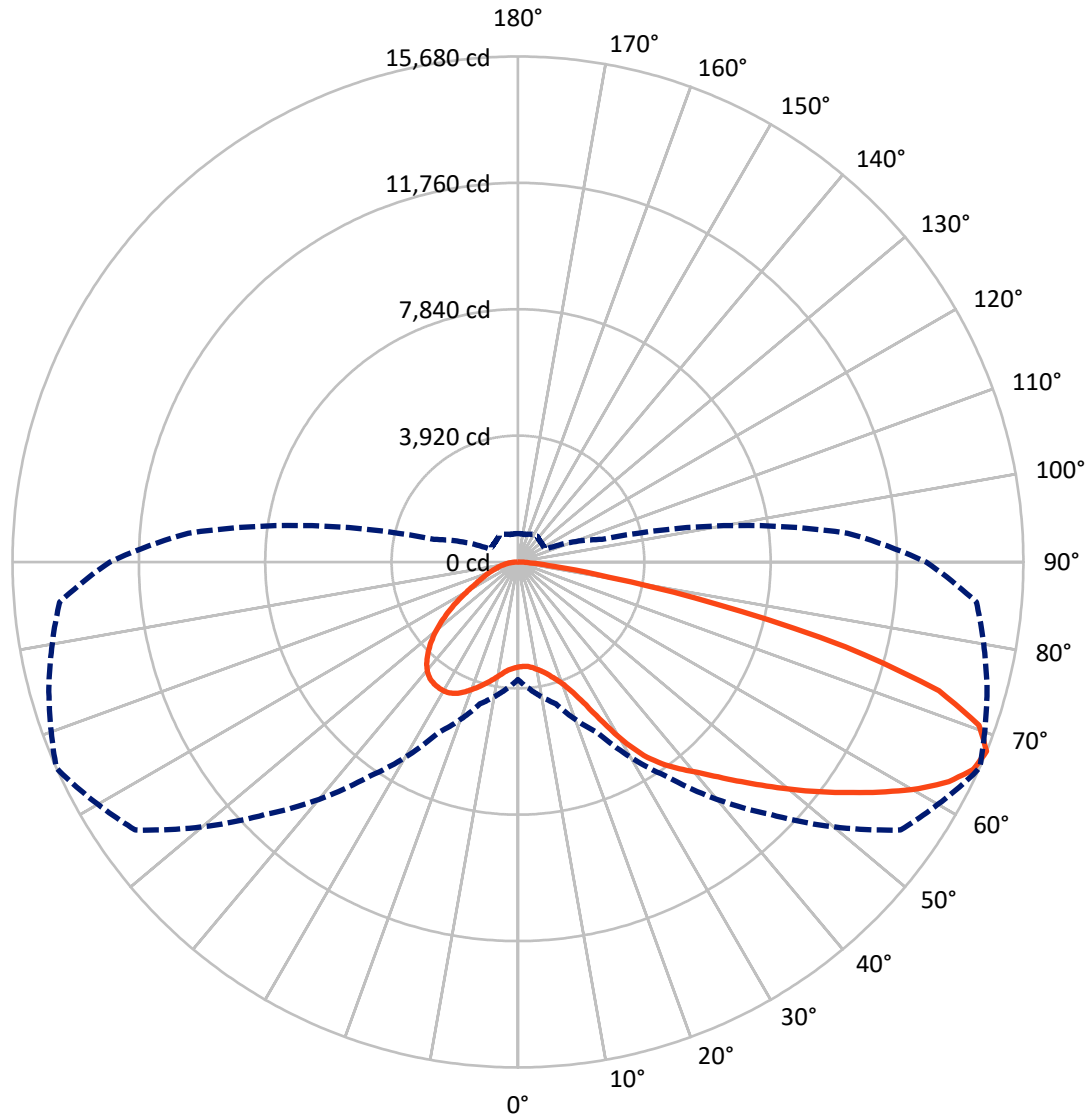
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7303.8   | 0.0    | 7303.8  |
|                    | % Fixture | 24.9     | 0.0    | 24.9    |
| <b>Street Side</b> | Lumens    | 22070.2  | 0.0    | 22070.2 |
|                    | % Fixture | 75.1     | 0.0    | 75.1    |
| <b>Total</b>       | Lumens    | 29374.0  | 0.0    | 29374.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 323.0   | 1.1       |
| 10°-20°   | 1067.2  | 3.6       |
| 20°-30°   | 2057.0  | 7.0       |
| 30°-40°   | 3606.6  | 12.3      |
| 40°-50°   | 5361.9  | 18.3      |
| 50°-60°   | 6796.7  | 23.1      |
| 60°-70°   | 6650.4  | 22.6      |
| 70°-80°   | 3172.3  | 10.8      |
| 80°-90°   | 339.0   | 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°    | 29374.0 | 100.0     |
| 0°-180°   | 29374.0 | 100.0     |

**Coefficient of Utilization**



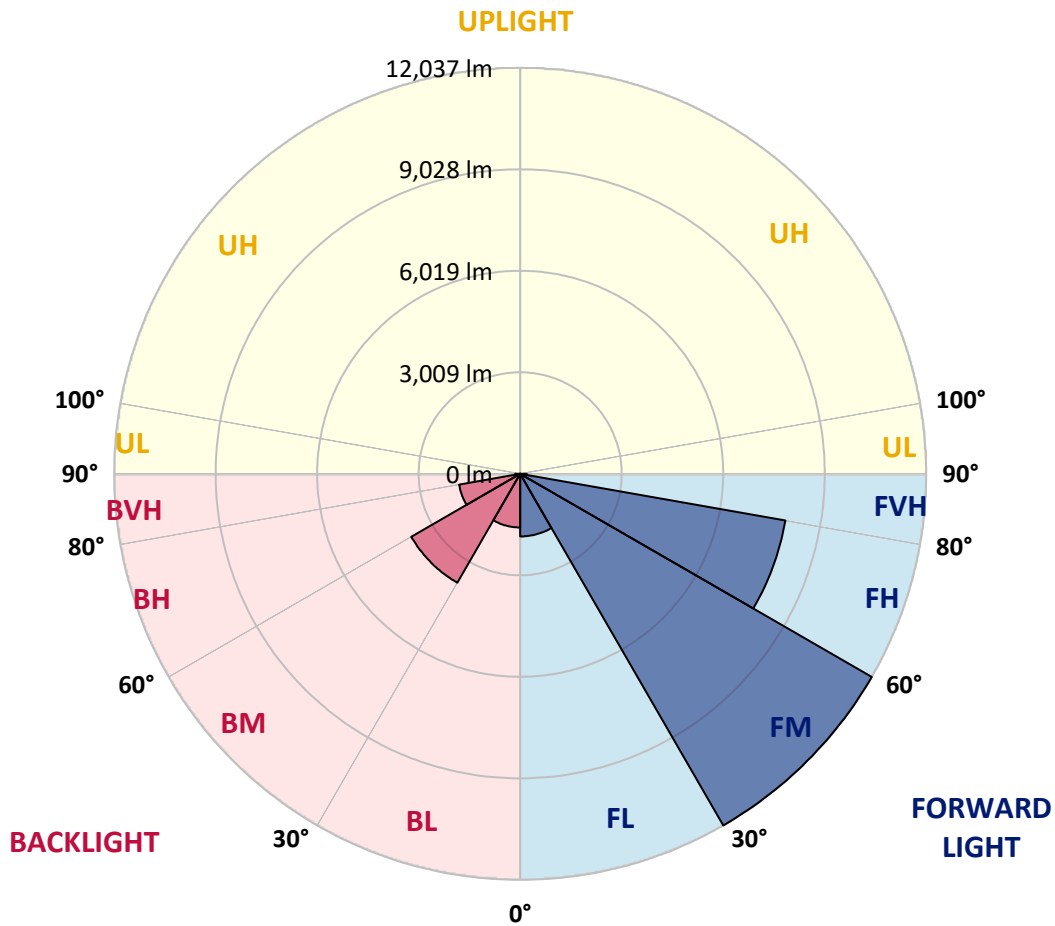
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1856.1  | 6.3       |                         |      |          |
| FM (30°-60°)   | 12037.2 | 41.0      |                         |      |          |
| FH (60°-80°)   | 7984.7  | 27.2      |                         |      | G4/12000 |
| FVH (80°-90°)  | 192.2   | 0.7       |                         |      | G2/225   |
| BL (0°-30°)    | 1591.0  | 5.4       | B3/2500                 |      |          |
| BM (30°-60°)   | 3727.9  | 12.7      | B3/5000                 |      |          |
| BH (60°-80°)   | 1838.0  | 6.3       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 146.8   | 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°    | 3258.0  | 3258.0  | 3258.0  | 3258.0  | 3258.0  | 3258.0  | 3258.0  | 3258.0  | 3258.0  | 3258.0  | 3258.0  |
| 2.5°  | 3224.0  | 3242.5  | 3237.9  | 3230.2  | 3228.6  | 3231.7  | 3236.4  | 3241.0  | 3239.4  | 3247.2  | 3259.5  |
| 5°    | 3214.8  | 3233.3  | 3231.7  | 3231.7  | 3237.9  | 3250.2  | 3258.0  | 3265.7  | 3258.0  | 3267.2  | 3284.2  |
| 7.5°  | 3220.9  | 3234.8  | 3241.0  | 3247.2  | 3262.6  | 3285.7  | 3304.3  | 3321.2  | 3312.0  | 3322.8  | 3344.4  |
| 10°   | 3299.6  | 3310.4  | 3316.6  | 3316.6  | 3327.4  | 3353.7  | 3372.2  | 3403.0  | 3395.3  | 3412.3  | 3440.1  |
| 12.5° | 3443.2  | 3454.0  | 3454.0  | 3447.8  | 3455.5  | 3472.5  | 3478.7  | 3512.6  | 3498.7  | 3526.5  | 3554.3  |
| 15°   | 3619.1  | 3640.7  | 3623.7  | 3612.9  | 3616.0  | 3633.0  | 3631.5  | 3657.7  | 3643.8  | 3666.9  | 3691.6  |
| 17.5° | 3813.6  | 3841.3  | 3813.6  | 3812.0  | 3805.8  | 3824.4  | 3825.9  | 3849.1  | 3824.4  | 3841.3  | 3858.3  |
| 20°   | 4043.5  | 4082.1  | 4059.0  | 4066.7  | 4052.8  | 4060.5  | 4068.2  | 4102.2  | 4063.6  | 4075.9  | 4071.3  |
| 22.5° | 4367.6  | 4413.9  | 4389.2  | 4418.5  | 4409.3  | 4403.1  | 4401.6  | 4461.8  | 4401.6  | 4406.2  | 4361.4  |
| 25°   | 4839.9  | 4895.4  | 4852.2  | 4892.3  | 4892.3  | 4912.4  | 4935.6  | 5012.7  | 4912.4  | 4883.1  | 4767.3  |
| 27.5° | 5537.5  | 5593.0  | 5508.1  | 5532.8  | 5525.1  | 5574.5  | 5549.8  | 5741.2  | 5633.1  | 5585.3  | 5352.3  |
| 30°   | 6377.0  | 6475.8  | 6315.3  | 6309.1  | 6301.4  | 6380.1  | 6415.6  | 6542.2  | 6432.6  | 6384.7  | 6103.9  |
| 32.5° | 7284.5  | 7387.9  | 7196.5  | 7141.0  | 7111.7  | 7159.5  | 7130.2  | 7232.0  | 7156.4  | 7082.3  | 6735.1  |
| 35°   | 8244.5  | 8346.3  | 8164.2  | 8056.2  | 7938.9  | 7838.6  | 7733.6  | 7759.9  | 7688.9  | 7576.2  | 7216.6  |
| 37.5° | 9151.9  | 9338.7  | 9145.8  | 9030.0  | 8813.9  | 8617.9  | 8324.7  | 8202.8  | 8136.4  | 8033.0  | 7670.3  |
| 40°   | 10076.4 | 10182.9 | 10036.3 | 9937.5  | 9702.9  | 9395.8  | 8926.6  | 8668.9  | 8579.4  | 8479.0  | 8171.9  |
| 42.5° | 10757.0 | 10858.9 | 10780.1 | 10712.2 | 10528.6 | 10172.1 | 9565.5  | 9243.0  | 9113.4  | 9000.7  | 8739.9  |
| 45°   | 11297.2 | 11372.8 | 11323.4 | 11348.1 | 11269.4 | 10923.7 | 10227.6 | 9858.8  | 9724.5  | 9587.2  | 9381.9  |
| 47.5° | 11514.8 | 11595.0 | 11673.7 | 11820.3 | 11954.6 | 11700.0 | 10939.1 | 10525.5 | 10383.5 | 10243.1 | 10040.9 |
| 50°   | 11490.1 | 11571.9 | 11800.3 | 12112.0 | 12528.7 | 12443.9 | 11689.2 | 11235.4 | 11104.2 | 10943.7 | 10757.0 |
| 52.5° | 11292.5 | 11385.1 | 11678.4 | 12196.9 | 12860.5 | 13001.0 | 12453.1 | 11968.5 | 11845.0 | 11653.7 | 11466.9 |
| 55°   | 10774.0 | 10829.5 | 11269.4 | 12004.0 | 12939.3 | 13389.9 | 13201.6 | 12749.4 | 12626.0 | 12359.0 | 12155.2 |
| 57.5° | 9812.5  | 9892.7  | 10533.2 | 11483.9 | 12741.7 | 13653.8 | 13859.1 | 13570.5 | 13451.6 | 13067.4 | 12854.4 |
| 60°   | 8557.8  | 8685.8  | 9418.9  | 10610.4 | 12238.6 | 13652.3 | 14456.4 | 14377.6 | 14278.9 | 13764.9 | 13542.7 |
| 62.5° | 7137.9  | 7286.1  | 7991.4  | 9375.7  | 11358.9 | 13264.9 | 14829.8 | 15053.6 | 15002.7 | 14408.5 | 14124.5 |
| 65°   | 5481.9  | 5583.8  | 6286.0  | 7778.4  | 9990.0  | 12433.0 | 14873.0 | 15515.1 | 15524.3 | 14897.7 | 14428.6 |
| 67.5° | 3650.0  | 3943.2  | 4552.8  | 5836.9  | 8156.5  | 11073.4 | 14493.4 | 15590.7 | 15680.2 | 15066.0 | 14275.8 |
| 70°   | 1781.0  | 2166.8  | 2764.1  | 3793.5  | 5836.9  | 8988.3  | 13501.0 | 14970.3 | 15169.4 | 14575.2 | 13365.2 |
| 72.5° | 739.3   | 864.3   | 1189.9  | 1872.1  | 3350.6  | 6065.3  | 11507.1 | 13288.1 | 13656.9 | 12914.6 | 11237.0 |
| 75°   | 498.5   | 540.2   | 680.6   | 959.9   | 1526.4  | 2991.0  | 8298.5  | 9908.2  | 10502.3 | 9753.8  | 7972.8  |
| 77.5° | 384.3   | 410.5   | 495.4   | 671.3   | 907.5   | 1131.3  | 4441.7  | 5971.1  | 6278.3  | 5812.2  | 4148.5  |
| 80°   | 302.5   | 322.6   | 370.4   | 489.2   | 643.6   | 605.0   | 1514.0  | 2705.5  | 2882.9  | 2418.4  | 1333.4  |
| 82.5° | 262.4   | 270.1   | 265.5   | 331.8   | 427.5   | 353.4   | 497.0   | 998.5   | 1101.9  | 799.4   | 435.2   |
| 85°   | 189.8   | 211.4   | 220.7   | 205.3   | 226.9   | 179.0   | 203.7   | 353.4   | 388.9   | 347.2   | 245.4   |
| 87.5° | 77.2    | 114.2   | 140.4   | 132.7   | 83.3    | 50.9    | 63.3    | 103.4   | 118.8   | 129.6   | 80.3    |
| 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°    | 3258.0  | 3258.0  | 3258.0 | 3258.0 | 3258.0 | 3258.0 | 3258.0 | 3258.0 | 3258.0 | 3258.0 | 3258.0 |
| 2.5°  | 3261.1  | 3271.9  | 3279.6 | 3288.8 | 3295.0 | 3304.3 | 3322.8 | 3333.6 | 3335.1 | 3342.8 | 3341.3 |
| 5°    | 3290.4  | 3305.8  | 3322.8 | 3347.5 | 3375.3 | 3398.4 | 3433.9 | 3458.6 | 3467.9 | 3475.6 | 3474.0 |
| 7.5°  | 3353.7  | 3375.3  | 3406.1 | 3449.3 | 3489.5 | 3520.3 | 3563.5 | 3592.9 | 3622.2 | 3633.0 | 3634.5 |
| 10°   | 3447.8  | 3478.7  | 3523.4 | 3582.1 | 3625.3 | 3665.4 | 3710.2 | 3734.9 | 3764.2 | 3776.5 | 3782.7 |
| 12.5° | 3565.1  | 3597.5  | 3656.1 | 3737.9 | 3778.1 | 3805.8 | 3821.3 | 3815.1 | 3821.3 | 3832.1 | 3835.2 |
| 15°   | 3699.4  | 3734.9  | 3801.2 | 3889.2 | 3917.0 | 3892.3 | 3858.3 | 3827.5 | 3822.8 | 3825.9 | 3836.7 |
| 17.5° | 3858.3  | 3884.6  | 3961.7 | 4035.8 | 4015.7 | 3913.9 | 3839.8 | 3790.4 | 3765.7 | 3758.0 | 3768.8 |
| 20°   | 4080.6  | 4080.6  | 4143.8 | 4190.1 | 4055.9 | 3883.0 | 3767.3 | 3687.0 | 3636.1 | 3614.5 | 3609.8 |
| 22.5° | 4350.6  | 4325.9  | 4366.1 | 4333.7 | 4048.1 | 3796.6 | 3636.1 | 3497.2 | 3420.0 | 3389.1 | 3384.5 |
| 25°   | 4693.3  | 4663.9  | 4653.1 | 4452.5 | 3992.6 | 3659.2 | 3398.4 | 3230.2 | 3162.3 | 3145.3 | 3148.4 |
| 27.5° | 5210.3  | 5136.2  | 4995.8 | 4517.3 | 3890.7 | 3443.2 | 3120.6 | 2964.7 | 2926.1 | 2927.7 | 2932.3 |
| 30°   | 5898.6  | 5750.4  | 5406.3 | 4528.1 | 3724.0 | 3137.6 | 2836.6 | 2725.5 | 2707.0 | 2714.7 | 2741.0 |
| 32.5° | 6536.0  | 6395.6  | 5826.1 | 4478.7 | 3467.9 | 2838.2 | 2582.0 | 2507.9 | 2480.1 | 2489.4 | 2501.7 |
| 35°   | 7036.0  | 6997.4  | 6215.0 | 4409.3 | 3153.0 | 2557.3 | 2353.6 | 2290.3 | 2236.3 | 2223.9 | 2233.2 |
| 37.5° | 7508.3  | 7492.9  | 6506.7 | 4312.1 | 2841.3 | 2358.2 | 2169.9 | 2086.6 | 2007.9 | 1964.7 | 1966.2 |
| 40°   | 8026.8  | 8011.4  | 6698.0 | 4162.4 | 2565.0 | 2185.4 | 2004.8 | 1895.2 | 1798.0 | 1719.3 | 1727.0 |
| 42.5° | 8610.2  | 8519.2  | 6789.1 | 3947.8 | 2330.4 | 2038.7 | 1870.5 | 1722.4 | 1594.3 | 1521.7 | 1526.4 |
| 45°   | 9247.6  | 9042.4  | 6787.6 | 3674.7 | 2132.9 | 1904.5 | 1727.0 | 1517.1 | 1398.3 | 1330.3 | 1327.3 |
| 47.5° | 9923.6  | 9542.4  | 6704.2 | 3372.2 | 1941.5 | 1756.3 | 1504.7 | 1344.2 | 1265.5 | 1223.9 | 1214.6 |
| 50°   | 10621.2 | 10010.0 | 6562.2 | 3024.9 | 1745.5 | 1588.1 | 1365.8 | 1256.3 | 1196.1 | 1157.5 | 1143.6 |
| 52.5° | 11277.1 | 10434.4 | 6390.9 | 2631.4 | 1546.4 | 1424.5 | 1304.1 | 1219.2 | 1156.0 | 1112.7 | 1094.2 |
| 55°   | 11886.7 | 10800.2 | 6148.6 | 2228.6 | 1384.4 | 1314.9 | 1274.8 | 1203.8 | 1131.3 | 1080.3 | 1060.3 |
| 57.5° | 12428.4 | 11037.9 | 5730.4 | 1850.4 | 1268.6 | 1239.3 | 1243.9 | 1177.6 | 1094.2 | 1051.0 | 1023.2 |
| 60°   | 12879.1 | 11212.3 | 5111.5 | 1500.1 | 1174.5 | 1165.2 | 1196.1 | 1128.2 | 1030.9 | 981.6  | 959.9  |
| 62.5° | 13149.2 | 11209.2 | 4352.2 | 1228.5 | 1094.2 | 1097.3 | 1132.8 | 1066.4 | 967.7  | 921.4  | 907.5  |
| 65°   | 13126.0 | 10934.5 | 3518.8 | 1051.0 | 1017.1 | 1020.1 | 1066.4 | 998.5  | 915.2  | 887.4  | 885.9  |
| 67.5° | 12661.5 | 10264.7 | 2699.3 | 935.3  | 932.2  | 946.1  | 1000.1 | 952.2  | 882.8  | 879.7  | 884.3  |
| 70°   | 11403.6 | 8874.1  | 1944.6 | 842.7  | 844.2  | 864.3  | 935.3  | 922.9  | 865.8  | 872.0  | 870.4  |
| 72.5° | 9144.2  | 6765.9  | 1305.7 | 745.4  | 747.0  | 779.4  | 873.5  | 899.8  | 848.8  | 930.6  | 943.0  |
| 75°   | 6090.0  | 4219.5  | 839.6  | 642.0  | 643.6  | 685.2  | 819.5  | 855.0  | 802.5  | 927.5  | 935.3  |
| 77.5° | 2926.1  | 1896.7  | 608.1  | 540.2  | 540.2  | 578.7  | 708.4  | 765.5  | 683.7  | 720.7  | 660.5  |
| 80°   | 1010.9  | 713.0   | 478.4  | 435.2  | 426.0  | 452.2  | 597.3  | 663.6  | 589.6  | 543.3  | 509.3  |
| 82.5° | 398.2   | 370.4   | 384.3  | 338.0  | 307.1  | 324.1  | 464.5  | 547.9  | 433.7  | 392.0  | 390.5  |
| 85°   | 228.4   | 240.8   | 271.6  | 223.8  | 177.5  | 199.1  | 341.1  | 393.5  | 327.2  | 288.6  | 294.8  |
| 87.5° | 61.7    | 84.9    | 125.0  | 115.7  | 80.3   | 84.9   | 162.0  | 217.6  | 188.3  | 145.1  | 149.7  |
| 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)