

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: P885348

Luminaire Tested: **NVN-SB6C-830-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885348  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6C-830-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

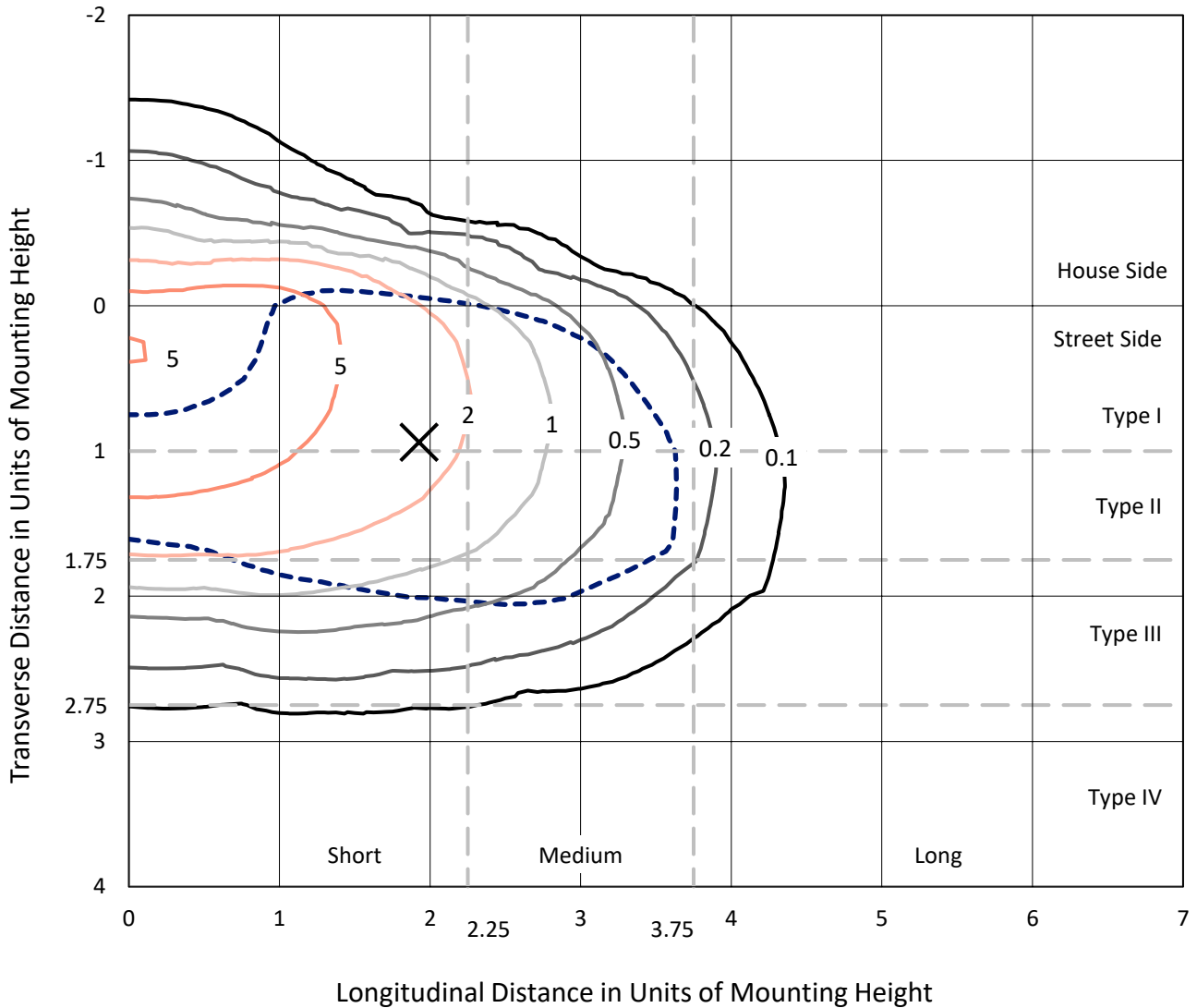
Lumens per Lamp: N/A  
Luminaire Lumens: 31194 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 2.518  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
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

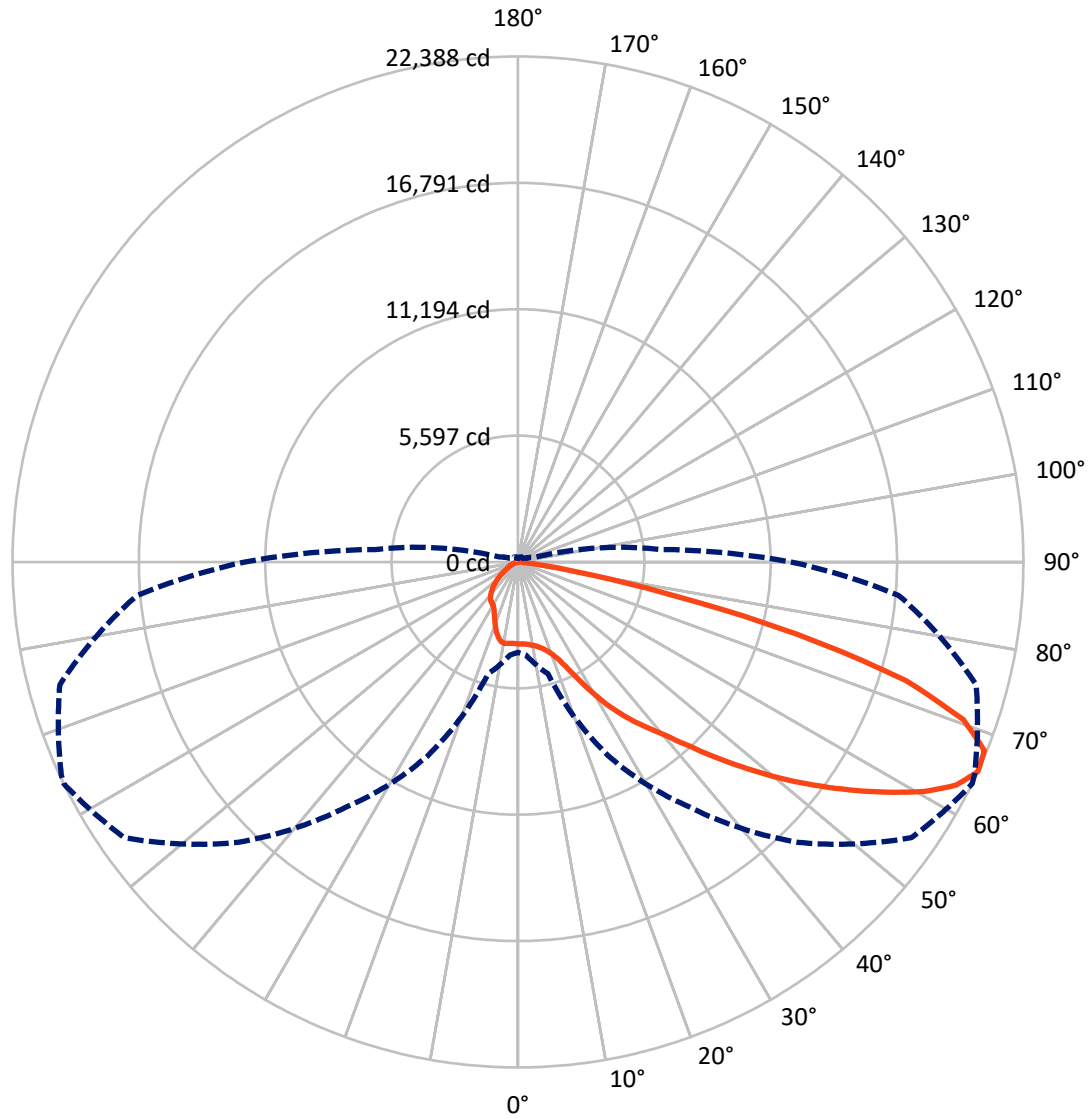
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4171.6   | 0.0    | 4171.6  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 27022.4  | 0.0    | 27022.4 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 31194.0  | 0.0    | 31194.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 334.7   | 1.1       |
| 10°-20°   | 907.9   | 2.9       |
| 20°-30°   | 1720.4  | 5.5       |
| 30°-40°   | 3481.3  | 11.2      |
| 40°-50°   | 5930.4  | 19.0      |
| 50°-60°   | 8064.8  | 25.9      |
| 60°-70°   | 7573.3  | 24.3      |
| 70°-80°   | 3034.2  | 9.7       |
| 80°-90°   | 147.0   | 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°    | 31194.0 | 100.0     |
| 0°-180°   | 31194.0 | 100.0     |

**Coefficient of Utilization**



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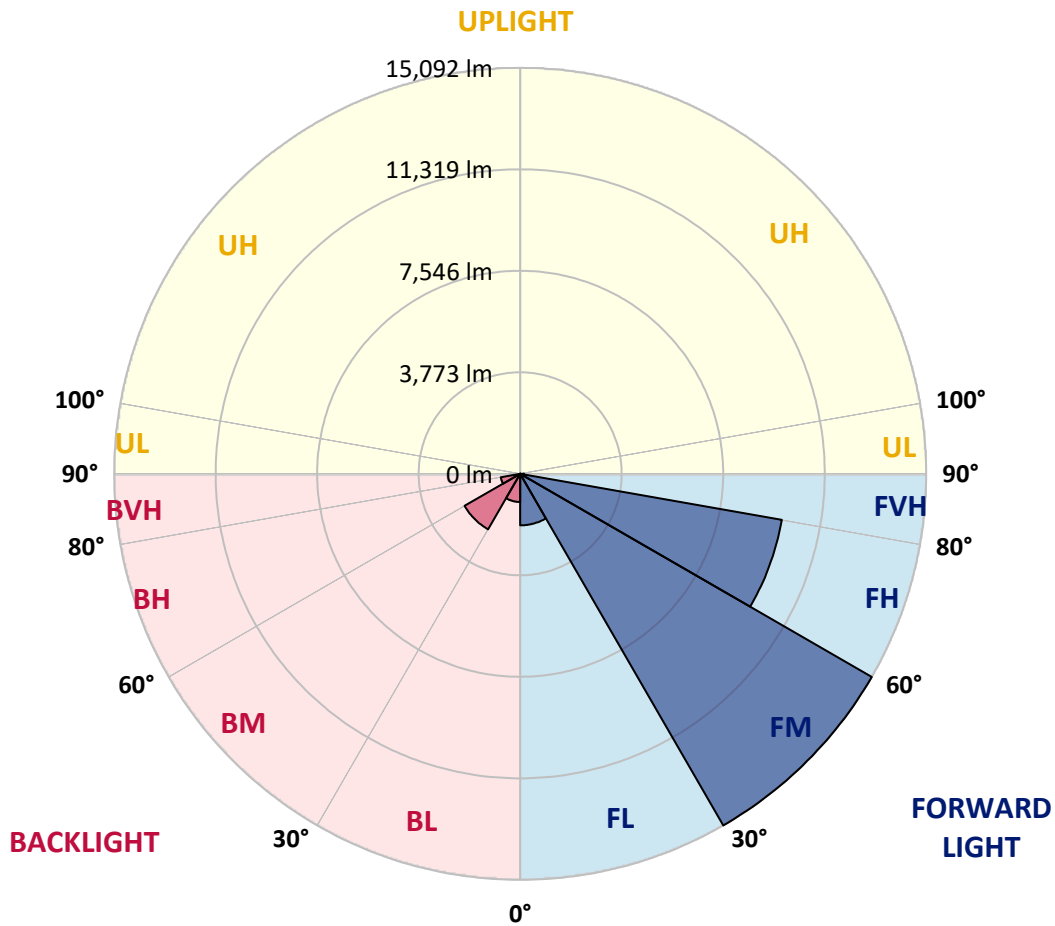
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1915.7  | 6.1       |                         |      |          |
| FM (30°-60°)   | 15091.6 | 48.4      |                         |      |          |
| FH (60°-80°)   | 9875.3  | 31.7      |                         |      | G4/12000 |
| FVH (80°-90°)  | 139.8   | 0.4       |                         |      | G2/225   |
| BL (0°-30°)    | 1047.4  | 3.4       | B3/2500                 |      |          |
| BM (30°-60°)   | 2384.9  | 7.6       | B2/2500                 |      |          |
| BH (60°-80°)   | 732.2   | 2.3       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 7.2     | 0.0       |                         |      | G0/10    |
| 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°     | 64°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3628.2  | 3628.2  | 3628.2  | 3628.2  | 3628.2  | 3628.2  | 3628.2  | 3628.2  | 3628.2  | 3628.2  | 3628.2  |
| 2.5°  | 3615.6  | 3640.7  | 3634.5  | 3628.2  | 3626.1  | 3630.3  | 3632.4  | 3630.3  | 3630.3  | 3630.3  | 3632.4  |
| 5°    | 3546.6  | 3567.5  | 3567.5  | 3582.2  | 3603.1  | 3628.2  | 3647.0  | 3651.2  | 3655.4  | 3661.6  | 3659.6  |
| 7.5°  | 3414.9  | 3431.6  | 3444.2  | 3492.3  | 3544.5  | 3611.5  | 3667.9  | 3697.2  | 3701.4  | 3724.4  | 3732.7  |
| 10°   | 3325.0  | 3345.9  | 3366.8  | 3417.0  | 3492.3  | 3592.6  | 3688.8  | 3759.9  | 3770.4  | 3824.8  | 3849.9  |
| 12.5° | 3320.8  | 3341.7  | 3368.9  | 3423.3  | 3511.1  | 3617.7  | 3734.8  | 3837.3  | 3856.1  | 3935.6  | 3987.9  |
| 15°   | 3364.7  | 3389.8  | 3414.9  | 3481.8  | 3575.9  | 3705.6  | 3831.0  | 3958.6  | 3977.4  | 4090.3  | 4146.8  |
| 17.5° | 3454.6  | 3488.1  | 3506.9  | 3573.8  | 3674.2  | 3818.5  | 3983.7  | 4130.1  | 4146.8  | 4278.5  | 4349.6  |
| 20°   | 3632.4  | 3672.1  | 3678.4  | 3732.7  | 3831.0  | 3985.8  | 4182.3  | 4364.3  | 4385.2  | 4535.8  | 4615.2  |
| 22.5° | 4000.4  | 4056.9  | 4006.7  | 4033.9  | 4121.7  | 4276.4  | 4489.7  | 4719.8  | 4749.1  | 4920.5  | 4991.6  |
| 25°   | 4648.7  | 4728.1  | 4598.5  | 4552.5  | 4590.1  | 4751.1  | 5018.8  | 5309.5  | 5342.9  | 5481.0  | 5516.5  |
| 27.5° | 5922.2  | 5819.7  | 5623.2  | 5430.8  | 5317.9  | 5409.9  | 5711.0  | 6070.7  | 6112.5  | 6246.3  | 6204.5  |
| 30°   | 7321.2  | 7231.3  | 6965.7  | 6539.1  | 6271.4  | 6256.8  | 6534.9  | 6936.4  | 6984.5  | 7112.1  | 6984.5  |
| 32.5° | 8722.3  | 8636.5  | 8348.0  | 7823.1  | 7358.8  | 7128.8  | 7321.2  | 7766.6  | 7791.7  | 7873.3  | 7685.1  |
| 35°   | 10100.4 | 10012.5 | 9724.0  | 9186.5  | 8615.6  | 8092.8  | 8055.2  | 8557.1  | 8565.4  | 8651.2  | 8371.0  |
| 37.5° | 11486.8 | 11413.6 | 11106.2 | 10579.2 | 10016.7 | 9295.3  | 8946.0  | 9305.7  | 9316.2  | 9399.8  | 9109.2  |
| 40°   | 12475.9 | 12507.3 | 12296.1 | 11888.3 | 11405.3 | 10616.9 | 9945.6  | 10102.5 | 10039.7 | 10179.8 | 10006.3 |
| 42.5° | 13325.0 | 13387.7 | 13203.7 | 12998.7 | 12718.5 | 12024.2 | 11183.6 | 11156.4 | 11056.0 | 11131.3 | 10951.5 |
| 45°   | 14059.0 | 14111.2 | 13946.0 | 13897.9 | 13891.7 | 13404.4 | 12536.6 | 12373.5 | 12233.4 | 12218.7 | 12003.3 |
| 47.5° | 14328.7 | 14429.1 | 14500.2 | 14661.2 | 14974.9 | 14770.0 | 13935.6 | 13682.5 | 13525.7 | 13410.7 | 13069.8 |
| 50°   | 14431.2 | 14537.8 | 14780.4 | 15248.8 | 15991.2 | 16079.0 | 15328.3 | 15043.9 | 14851.5 | 14642.4 | 14140.5 |
| 52.5° | 14293.2 | 14483.5 | 14809.7 | 15598.1 | 16675.0 | 17128.8 | 16664.6 | 16415.7 | 16196.1 | 15855.3 | 15110.8 |
| 55°   | 13479.7 | 13670.0 | 14337.1 | 15593.9 | 17015.9 | 17864.9 | 17927.6 | 17816.8 | 17570.0 | 17032.6 | 15895.0 |
| 57.5° | 11764.9 | 12047.3 | 13103.3 | 15062.7 | 17009.6 | 18498.5 | 19165.6 | 19245.1 | 18969.0 | 18199.5 | 16511.9 |
| 60°   | 9389.4  | 9772.1  | 11060.2 | 13885.4 | 16484.7 | 18841.5 | 20250.9 | 20648.2 | 20355.5 | 19349.6 | 17011.7 |
| 62.5° | 6551.6  | 6995.0  | 8214.1  | 12041.0 | 15284.4 | 18594.7 | 21043.5 | 21777.5 | 21555.8 | 20378.5 | 17204.1 |
| 65°   | 3996.2  | 4138.4  | 5121.3  | 9475.1  | 13243.4 | 17561.7 | 21288.1 | 22388.1 | 22314.9 | 21007.9 | 16919.7 |
| 67.5° | 2662.1  | 2781.3  | 3063.6  | 6497.3  | 10280.2 | 15497.7 | 20702.6 | 22281.5 | 22302.4 | 20905.5 | 15878.3 |
| 70°   | 1603.9  | 1706.4  | 1890.4  | 3778.8  | 6662.5  | 12266.8 | 18889.6 | 20922.2 | 21043.5 | 19535.7 | 13904.2 |
| 72.5° | 660.8   | 729.8   | 897.1   | 1712.7  | 3450.4  | 7785.4  | 15041.8 | 17963.2 | 18245.5 | 16426.2 | 10671.3 |
| 75°   | 374.3   | 409.9   | 527.0   | 859.5   | 1497.3  | 3628.2  | 9111.2  | 12752.0 | 13168.1 | 11321.6 | 6419.9  |
| 77.5° | 248.8   | 265.6   | 340.9   | 556.3   | 842.7   | 1238.0  | 3893.8  | 6643.7  | 7438.3  | 6183.6  | 2779.2  |
| 80°   | 167.3   | 181.9   | 234.2   | 372.2   | 547.9   | 531.2   | 1240.1  | 2461.3  | 3028.0  | 2124.6  | 677.5   |
| 82.5° | 112.9   | 115.0   | 167.3   | 244.7   | 347.1   | 257.2   | 366.0   | 765.4   | 961.9   | 614.8   | 257.2   |
| 85°   | 64.8    | 62.7    | 123.4   | 142.2   | 154.7   | 106.6   | 110.8   | 230.0   | 301.1   | 259.3   | 146.4   |
| 87.5° | 8.4     | 12.5    | 48.1    | 37.6    | 20.9    | 23.0    | 23.0    | 39.7    | 58.6    | 62.7    | 31.4    |
| 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°    | 3628.2  | 3628.2  | 3628.2 | 3628.2 | 3628.2 | 3628.2 | 3628.2 | 3628.2 | 3628.2 | 3628.2 | 3628.2 |
| 2.5°  | 3632.4  | 3630.3  | 3624.0 | 3617.7 | 3603.1 | 3594.7 | 3598.9 | 3594.7 | 3592.6 | 3594.7 | 3603.1 |
| 5°    | 3659.6  | 3653.3  | 3636.6 | 3615.6 | 3586.4 | 3550.8 | 3527.8 | 3494.4 | 3463.0 | 3444.2 | 3448.3 |
| 7.5°  | 3732.7  | 3726.5  | 3703.5 | 3644.9 | 3550.8 | 3402.3 | 3266.4 | 3147.2 | 3057.3 | 3005.0 | 3007.1 |
| 10°   | 3849.9  | 3839.4  | 3803.8 | 3674.2 | 3427.4 | 3103.3 | 2833.5 | 2609.8 | 2463.4 | 2394.4 | 2388.1 |
| 12.5° | 3987.9  | 3975.3  | 3912.6 | 3647.0 | 3193.2 | 2687.2 | 2314.9 | 2066.1 | 1930.2 | 1869.5 | 1863.2 |
| 15°   | 4151.0  | 4134.3  | 4010.9 | 3517.4 | 2852.4 | 2227.1 | 1886.2 | 1700.1 | 1612.3 | 1557.9 | 1560.0 |
| 17.5° | 4353.8  | 4324.5  | 4084.1 | 3322.9 | 2482.2 | 1875.8 | 1622.8 | 1482.6 | 1405.3 | 1353.0 | 1348.8 |
| 20°   | 4617.3  | 4569.2  | 4142.6 | 3090.8 | 2141.4 | 1654.1 | 1445.0 | 1327.9 | 1269.3 | 1223.3 | 1215.0 |
| 22.5° | 4985.4  | 4916.3  | 4213.7 | 2839.8 | 1900.9 | 1501.5 | 1313.3 | 1227.5 | 1179.4 | 1127.1 | 1118.8 |
| 25°   | 5441.2  | 5359.7  | 4301.5 | 2607.7 | 1735.7 | 1369.7 | 1217.1 | 1146.0 | 1089.5 | 1028.9 | 1022.6 |
| 27.5° | 6079.0  | 5932.7  | 4406.1 | 2417.4 | 1593.5 | 1256.8 | 1129.2 | 1049.8 | 984.9  | 934.8  | 924.3  |
| 30°   | 6790.0  | 6549.6  | 4498.1 | 2302.4 | 1463.8 | 1152.2 | 1014.2 | 934.8  | 874.1  | 838.6  | 832.3  |
| 32.5° | 7463.4  | 7137.2  | 4558.8 | 2252.2 | 1346.7 | 1033.0 | 888.7  | 803.0  | 757.0  | 746.5  | 752.8  |
| 35°   | 8099.1  | 7668.3  | 4552.5 | 2204.1 | 1242.2 | 913.8  | 765.4  | 677.5  | 642.0  | 648.3  | 648.3  |
| 37.5° | 8831.0  | 8235.0  | 4508.6 | 2128.8 | 1156.4 | 805.1  | 658.7  | 581.3  | 550.0  | 552.1  | 560.4  |
| 40°   | 9682.1  | 8889.6  | 4481.4 | 1986.6 | 1062.3 | 704.7  | 570.9  | 508.2  | 485.2  | 476.8  | 474.7  |
| 42.5° | 10589.7 | 9523.2  | 4485.6 | 1825.6 | 945.2  | 614.8  | 510.2  | 458.0  | 437.1  | 430.8  | 428.7  |
| 45°   | 11501.5 | 10127.6 | 4491.8 | 1658.3 | 821.8  | 545.8  | 466.3  | 422.4  | 409.9  | 401.5  | 401.5  |
| 47.5° | 12358.8 | 10642.0 | 4374.7 | 1478.5 | 700.5  | 493.5  | 430.8  | 401.5  | 391.0  | 380.6  | 380.6  |
| 50°   | 13157.7 | 10984.9 | 4092.4 | 1269.3 | 604.3  | 451.7  | 403.6  | 382.7  | 372.2  | 361.8  | 361.8  |
| 52.5° | 13778.7 | 11039.3 | 3626.1 | 1054.0 | 537.4  | 420.3  | 386.9  | 368.0  | 355.5  | 345.0  | 343.0  |
| 55°   | 14054.8 | 10698.4 | 2963.2 | 853.2  | 485.2  | 393.1  | 370.1  | 351.3  | 336.7  | 326.2  | 324.1  |
| 57.5° | 13983.7 | 9981.2  | 2310.7 | 685.9  | 435.0  | 366.0  | 349.2  | 336.7  | 319.9  | 303.2  | 301.1  |
| 60°   | 13634.5 | 9021.3  | 1741.9 | 570.9  | 389.0  | 336.7  | 326.2  | 315.8  | 292.8  | 267.7  | 263.5  |
| 62.5° | 13030.1 | 7814.7  | 1242.2 | 472.6  | 338.8  | 303.2  | 299.0  | 290.7  | 257.2  | 211.2  | 207.0  |
| 65°   | 12105.8 | 6348.8  | 836.5  | 393.1  | 290.7  | 265.6  | 267.7  | 253.0  | 209.1  | 156.8  | 152.7  |
| 67.5° | 10754.9 | 4642.4  | 535.3  | 322.0  | 242.6  | 221.7  | 223.8  | 215.4  | 177.7  | 133.8  | 127.6  |
| 70°   | 9033.9  | 3074.0  | 349.2  | 244.7  | 194.5  | 171.5  | 184.0  | 186.1  | 150.6  | 108.7  | 104.6  |
| 72.5° | 6622.7  | 1815.1  | 244.7  | 181.9  | 142.2  | 119.2  | 150.6  | 154.7  | 121.3  | 81.6   | 77.4   |
| 75°   | 3774.6  | 861.6   | 184.0  | 131.7  | 87.8   | 83.6   | 117.1  | 117.1  | 83.6   | 54.4   | 50.2   |
| 77.5° | 1585.1  | 359.7   | 129.7  | 85.7   | 50.2   | 48.1   | 79.5   | 73.2   | 41.8   | 25.1   | 25.1   |
| 80°   | 458.0   | 161.0   | 69.0   | 41.8   | 20.9   | 18.8   | 31.4   | 23.0   | 10.5   | 4.2    | 4.2    |
| 82.5° | 179.8   | 71.1    | 27.2   | 16.7   | 8.4    | 8.4    | 4.2    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 106.6   | 29.3    | 12.5   | 6.3    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 27.2    | 6.3     | 4.2    | 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)