

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: LUMARK

Report Number: P970265

Luminaire Tested: **NAV-SB6B-722-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6B-722-U-SL4  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

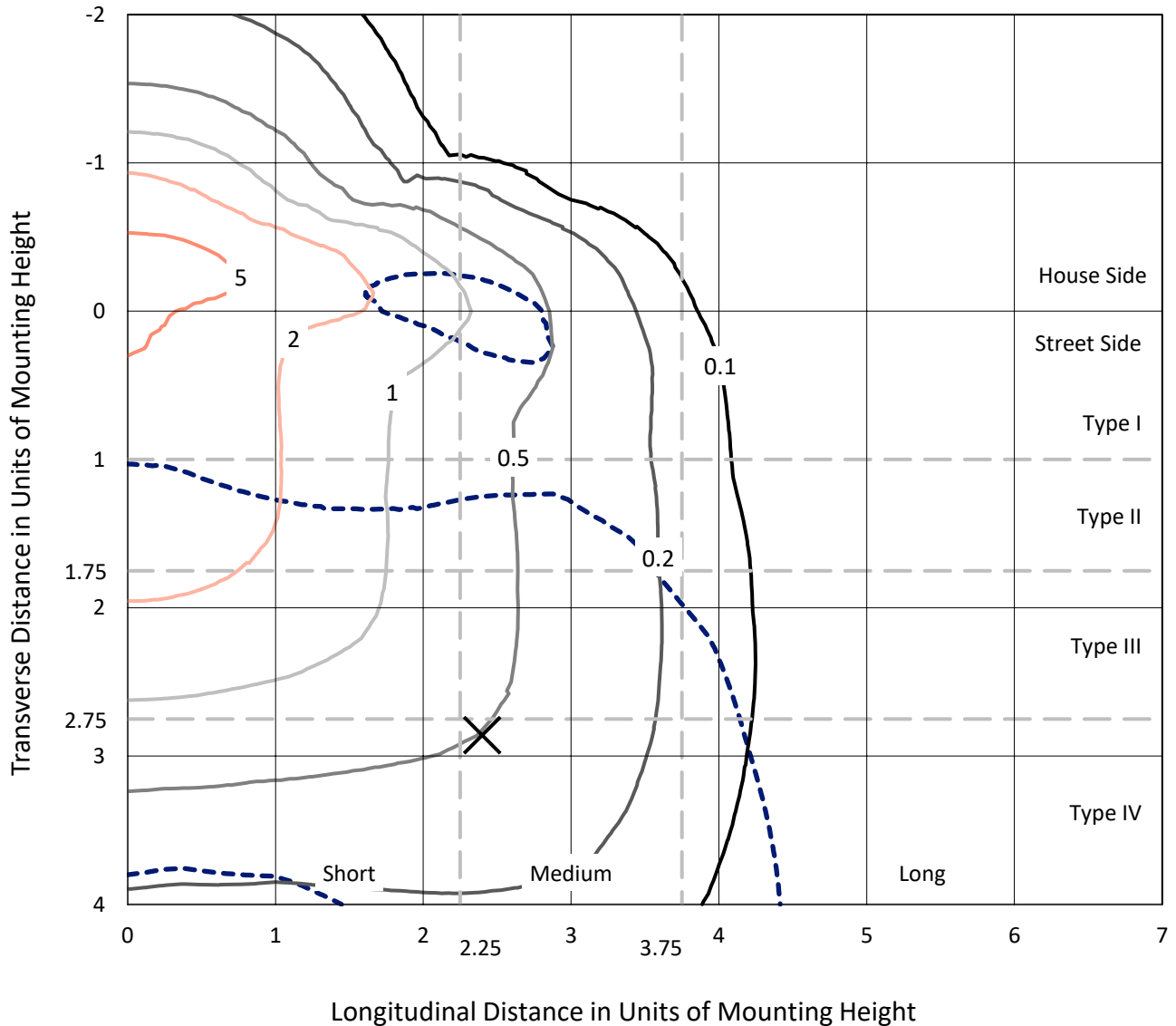
Lumens per Lamp: N/A  
Luminaire Lumens: 28661 lumens  
Efficiency: N/A  
Efficacy: 130.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

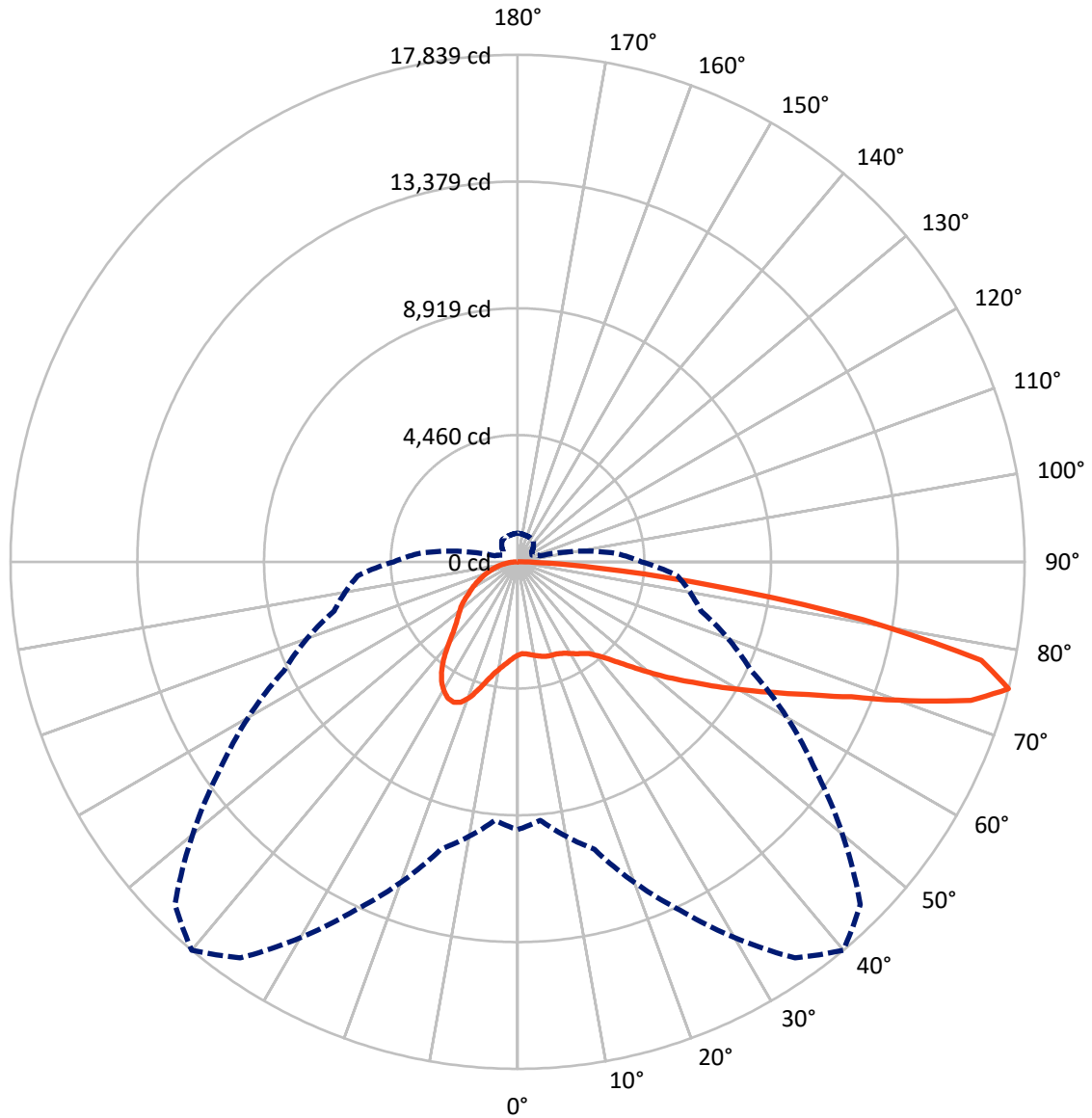
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8880.1   | 0.0    | 8880.1  |
|                    | % Fixture | 31.0     | 0.0    | 31.0    |
| <b>Street Side</b> | Lumens    | 19780.9  | 0.0    | 19780.9 |
|                    | % Fixture | 69.0     | 0.0    | 69.0    |
| <b>Total</b>       | Lumens    | 28661.0  | 0.0    | 28661.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 327.2   | 1.1       |
| 10°-20°   | 1098.4  | 3.8       |
| 20°-30°   | 2005.6  | 7.0       |
| 30°-40°   | 2844.5  | 9.9       |
| 40°-50°   | 3840.9  | 13.4      |
| 50°-60°   | 5167.0  | 18.0      |
| 60°-70°   | 6558.1  | 22.9      |
| 70°-80°   | 5951.9  | 20.8      |
| 80°-90°   | 867.6   | 3.0       |
| 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°    | 28661.0 | 100.0     |
| 0°-180°   | 28661.0 | 100.0     |

**Coefficient of Utilization**

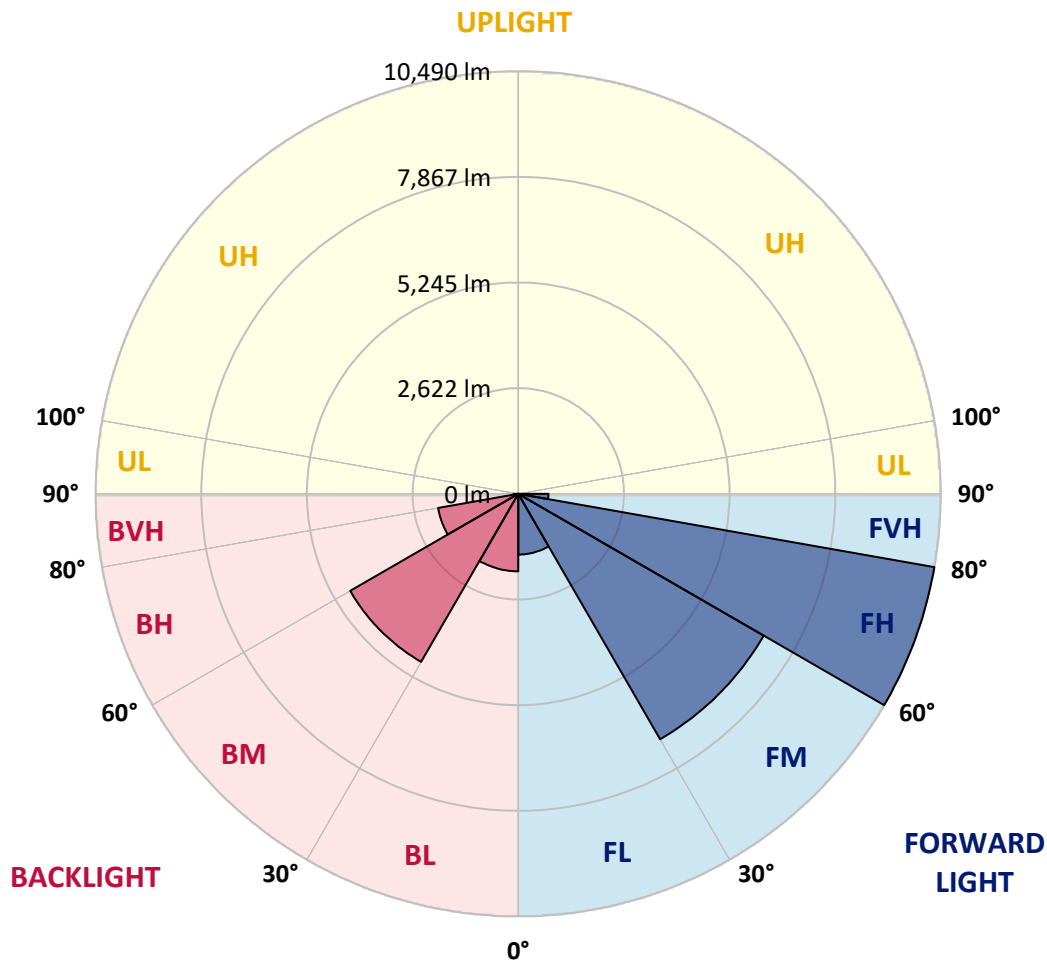


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1507.6  | 5.3       |                         |      |          |
| FM (30°-60°)   | 7035.6  | 24.5      |                         |      |          |
| FH (60°-80°)   | 10489.5 | 36.6      |                         |      | G4/12000 |
| FVH (80°-90°)  | 748.2   | 2.6       |                         |      | G4/750   |
| BL (0°-30°)    | 1923.5  | 6.7       | B3/2500                 |      |          |
| BM (30°-60°)   | 4816.7  | 16.8      | B3/5000                 |      |          |
| BH (60°-80°)   | 2020.5  | 7.0       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 119.4   | 0.4       |                         |      | 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 IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 40°     | 45°     | 55°     | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0°    | 3277.4  | 3277.4  | 3277.4  | 3277.4  | 3277.4  | 3277.4  | 3277.4  | 3277.4  | 3277.4 | 3277.4 | 3277.4 |
| 2.5°  | 3227.3  | 3245.5  | 3240.9  | 3234.9  | 3234.9  | 3236.3  | 3234.9  | 3245.5  | 3256.1 | 3266.8 | 3283.5 |
| 5°    | 3260.7  | 3279.0  | 3269.9  | 3262.3  | 3256.1  | 3254.6  | 3250.1  | 3248.5  | 3254.6 | 3268.3 | 3291.1 |
| 7.5°  | 3326.1  | 3344.3  | 3330.6  | 3317.0  | 3304.8  | 3298.8  | 3292.6  | 3283.5  | 3279.0 | 3286.6 | 3318.4 |
| 10°   | 3399.0  | 3417.2  | 3400.5  | 3376.2  | 3356.5  | 3348.9  | 3342.8  | 3333.7  | 3327.6 | 3332.2 | 3367.1 |
| 12.5° | 3472.0  | 3490.2  | 3467.5  | 3434.0  | 3408.1  | 3403.6  | 3396.0  | 3393.0  | 3391.4 | 3389.9 | 3424.8 |
| 15°   | 3540.5  | 3555.6  | 3526.7  | 3487.3  | 3459.9  | 3452.2  | 3444.6  | 3449.2  | 3456.8 | 3465.9 | 3505.5 |
| 17.5° | 3593.6  | 3608.8  | 3566.3  | 3514.6  | 3488.7  | 3485.7  | 3481.1  | 3496.4  | 3517.6 | 3540.5 | 3589.0 |
| 20°   | 3642.2  | 3657.5  | 3602.8  | 3532.8  | 3502.4  | 3502.4  | 3504.0  | 3535.8  | 3566.3 | 3599.7 | 3666.6 |
| 22.5° | 3710.7  | 3722.8  | 3656.0  | 3560.1  | 3516.1  | 3519.1  | 3531.3  | 3563.2  | 3601.2 | 3646.8 | 3739.5 |
| 25°   | 3812.5  | 3821.6  | 3739.5  | 3611.9  | 3561.7  | 3570.8  | 3581.5  | 3596.6  | 3633.1 | 3686.3 | 3811.0 |
| 27.5° | 3976.7  | 3984.3  | 3876.3  | 3703.1  | 3627.1  | 3642.2  | 3657.5  | 3646.8  | 3663.6 | 3709.2 | 3868.8 |
| 30°   | 4207.7  | 4212.3  | 4075.5  | 3846.0  | 3738.1  | 3745.7  | 3748.6  | 3704.6  | 3672.7 | 3709.2 | 3909.8 |
| 32.5° | 4481.4  | 4479.9  | 4317.2  | 4019.2  | 3864.2  | 3856.6  | 3830.7  | 3744.1  | 3669.6 | 3701.6 | 3946.2 |
| 35°   | 4905.5  | 4888.7  | 4679.0  | 4262.5  | 4007.1  | 3960.0  | 3899.2  | 3788.2  | 3684.9 | 3694.0 | 3978.2 |
| 37.5° | 5607.8  | 5556.1  | 5265.7  | 4660.8  | 4219.9  | 4099.8  | 4010.1  | 3859.6  | 3718.3 | 3690.9 | 4016.3 |
| 40°   | 6399.8  | 6334.4  | 6015.2  | 5206.5  | 4539.1  | 4346.1  | 4201.7  | 3961.5  | 3773.0 | 3704.6 | 4072.4 |
| 42.5° | 7339.2  | 7246.5  | 6903.0  | 5849.5  | 4943.5  | 4663.8  | 4446.4  | 4090.7  | 3853.6 | 3748.6 | 4148.5 |
| 45°   | 8493.0  | 8369.9  | 7883.5  | 6574.7  | 5452.8  | 5080.3  | 4789.9  | 4286.8  | 3976.7 | 3833.8 | 4262.5 |
| 47.5° | 9659.0  | 9689.4  | 8997.8  | 7404.6  | 6063.9  | 5594.1  | 5220.2  | 4581.8  | 4156.1 | 3970.6 | 4446.4 |
| 50°   | 10897.9 | 10919.2 | 10105.9 | 8324.3  | 6757.0  | 6174.8  | 5703.6  | 4911.6  | 4405.3 | 4165.2 | 4721.6 |
| 52.5° | 11864.7 | 11867.8 | 11112.2 | 9286.6  | 7479.1  | 6813.3  | 6225.0  | 5288.6  | 4694.2 | 4423.6 | 5087.9 |
| 55°   | 12469.7 | 12462.2 | 11817.6 | 10197.1 | 8309.1  | 7483.6  | 6802.6  | 5717.2  | 5046.9 | 4727.6 | 5548.5 |
| 57.5° | 12909.1 | 12886.3 | 12304.0 | 10980.0 | 9193.8  | 8275.6  | 7456.3  | 6203.7  | 5463.4 | 5089.4 | 6155.0 |
| 60°   | 13076.2 | 13062.6 | 12633.9 | 11656.5 | 10124.1 | 9151.3  | 8210.2  | 6747.9  | 5936.2 | 5516.5 | 6934.9 |
| 62.5° | 13140.1 | 13165.9 | 12957.7 | 12311.7 | 11119.8 | 10121.2 | 9038.8  | 7398.6  | 6468.2 | 6000.0 | 7757.3 |
| 65°   | 13365.1 | 13412.2 | 13369.7 | 13169.0 | 12244.8 | 11256.7 | 10137.9 | 8172.3  | 7048.9 | 6518.4 | 8616.2 |
| 67.5° | 13810.5 | 13857.6 | 13875.8 | 14195.1 | 13619.0 | 12671.9 | 11509.0 | 9136.0  | 7728.4 | 7056.5 | 9262.2 |
| 70°   | 13799.9 | 13786.1 | 14108.4 | 15011.4 | 15339.7 | 14631.4 | 13357.5 | 10321.8 | 8538.7 | 7503.4 | 9344.3 |
| 72.5° | 12561.0 | 12451.5 | 13213.1 | 15002.3 | 16771.8 | 16677.5 | 15615.0 | 11851.0 | 9237.9 | 7558.1 | 8108.5 |
| 75°   | 9423.3  | 9131.5  | 10476.8 | 13520.2 | 17010.4 | 17838.9 | 17050.0 | 12799.6 | 9072.2 | 6678.0 | 5642.7 |
| 77.5° | 4029.9  | 3736.5  | 5322.0  | 10008.6 | 15224.2 | 16675.9 | 15733.4 | 11167.0 | 7241.9 | 4416.0 | 2771.2 |
| 80°   | 1054.9  | 1053.5  | 1608.3  | 4537.7  | 10353.7 | 12314.7 | 10803.7 | 7211.6  | 4137.8 | 1577.9 | 764.6  |
| 82.5° | 436.2   | 425.7   | 591.3   | 1764.8  | 5059.0  | 6910.6  | 5639.8  | 3216.7  | 1494.3 | 427.1  | 253.9  |
| 85°   | 162.7   | 161.1   | 287.3   | 609.6   | 1784.6  | 2850.3  | 2062.8  | 822.4   | 372.5  | 208.3  | 114.0  |
| 87.5° | 45.6    | 44.1    | 62.3    | 211.3   | 434.8   | 659.8   | 352.7   | 135.3   | 104.9  | 82.1   | 33.4   |
| 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°    | 3277.4  | 3277.4 | 3277.4 | 3277.4 | 3277.4 | 3277.4 | 3277.4 | 3277.4 | 3277.4 | 3277.4 | 3277.4 |
| 2.5°  | 3288.1  | 3295.7 | 3309.3 | 3320.0 | 3333.7 | 3348.9 | 3370.2 | 3383.8 | 3397.6 | 3406.7 | 3400.5 |
| 5°    | 3301.7  | 3318.4 | 3353.4 | 3388.4 | 3429.4 | 3467.5 | 3511.5 | 3543.4 | 3569.3 | 3576.9 | 3579.9 |
| 7.5°  | 3332.2  | 3359.5 | 3418.8 | 3478.1 | 3543.4 | 3605.7 | 3669.6 | 3724.3 | 3768.4 | 3785.1 | 3786.7 |
| 10°   | 3385.4  | 3421.9 | 3505.5 | 3589.0 | 3675.8 | 3771.5 | 3853.6 | 3932.6 | 3994.9 | 4020.8 | 4022.3 |
| 12.5° | 3452.2  | 3497.8 | 3607.3 | 3722.8 | 3842.9 | 3975.2 | 4081.6 | 4178.9 | 4256.4 | 4291.4 | 4291.4 |
| 15°   | 3538.9  | 3598.2 | 3738.1 | 3893.1 | 4069.5 | 4253.3 | 4388.6 | 4496.6 | 4583.2 | 4625.8 | 4622.8 |
| 17.5° | 3633.1  | 3712.1 | 3888.5 | 4122.7 | 4375.0 | 4616.7 | 4774.8 | 4853.8 | 4943.5 | 4984.6 | 4983.0 |
| 20°   | 3724.3  | 3821.6 | 4074.0 | 4414.5 | 4750.5 | 5007.3 | 5135.0 | 5156.4 | 5162.4 | 5166.9 | 5179.1 |
| 22.5° | 3818.6  | 3949.3 | 4306.5 | 4782.3 | 5142.6 | 5320.5 | 5338.7 | 5247.5 | 5119.9 | 5060.5 | 5077.2 |
| 25°   | 3922.0  | 4095.3 | 4610.6 | 5188.2 | 5480.2 | 5501.4 | 5361.6 | 5139.6 | 4897.9 | 4787.0 | 4803.7 |
| 27.5° | 4022.3  | 4264.0 | 4975.5 | 5575.9 | 5723.3 | 5536.3 | 5235.4 | 4920.7 | 4628.8 | 4511.7 | 4525.5 |
| 30°   | 4122.7  | 4457.1 | 5378.3 | 5914.9 | 5834.3 | 5449.7 | 5036.2 | 4685.1 | 4391.7 | 4268.6 | 4282.2 |
| 32.5° | 4224.4  | 4682.0 | 5841.9 | 6159.6 | 5814.5 | 5265.7 | 4788.5 | 4420.6 | 4162.1 | 4033.0 | 4049.7 |
| 35°   | 4340.1  | 4958.7 | 6281.2 | 6293.4 | 5682.3 | 4995.2 | 4461.6 | 4104.4 | 3879.4 | 3776.0 | 3798.9 |
| 37.5° | 4490.5  | 5309.9 | 6668.9 | 6326.8 | 5451.3 | 4598.5 | 4055.7 | 3730.4 | 3545.0 | 3497.8 | 3531.3 |
| 40°   | 4677.5  | 5732.4 | 6965.3 | 6273.6 | 5109.2 | 4116.5 | 3611.9 | 3352.0 | 3247.0 | 3257.7 | 3294.1 |
| 42.5° | 4920.7  | 6205.2 | 7173.6 | 6136.8 | 4633.4 | 3619.5 | 3222.7 | 3107.2 | 3157.3 | 3199.9 | 3239.4 |
| 45°   | 5236.9  | 6696.2 | 7302.8 | 5904.2 | 4095.3 | 3198.4 | 2993.2 | 3020.6 | 3058.5 | 3063.1 | 3093.4 |
| 47.5° | 5641.3  | 7193.3 | 7387.9 | 5553.0 | 3546.5 | 2902.0 | 2847.2 | 2853.3 | 2845.7 | 2813.8 | 2838.1 |
| 50°   | 6145.9  | 7676.7 | 7463.9 | 5087.9 | 3079.8 | 2716.5 | 2643.6 | 2622.3 | 2517.4 | 2414.0 | 2427.7 |
| 52.5° | 6720.5  | 8120.6 | 7495.8 | 4510.3 | 2716.5 | 2561.5 | 2442.9 | 2309.1 | 2113.0 | 2081.1 | 2091.7 |
| 55°   | 7359.0  | 8531.1 | 7413.7 | 3800.4 | 2410.9 | 2362.3 | 2182.9 | 2021.8 | 2000.5 | 1973.1 | 1977.7 |
| 57.5° | 8122.1  | 8973.4 | 7246.5 | 3008.4 | 2097.8 | 2129.7 | 1954.9 | 1973.1 | 1935.1 | 1892.6 | 1885.0 |
| 60°   | 8956.7  | 9430.9 | 6953.1 | 2286.3 | 1774.0 | 1839.4 | 1895.6 | 1894.1 | 1883.4 | 1848.5 | 1836.3 |
| 62.5° | 9707.7  | 9732.0 | 6375.5 | 1751.2 | 1489.7 | 1614.4 | 1767.9 | 1766.4 | 1757.3 | 1737.5 | 1729.9 |
| 65°   | 10154.6 | 9686.4 | 5411.7 | 1378.7 | 1255.6 | 1429.0 | 1594.6 | 1606.8 | 1608.3 | 1606.8 | 1606.8 |
| 67.5° | 10075.5 | 9152.7 | 4089.1 | 1097.6 | 1062.6 | 1240.5 | 1422.9 | 1439.6 | 1451.7 | 1454.8 | 1457.9 |
| 70°   | 9181.6  | 7980.8 | 2666.3 | 875.6  | 890.8  | 1074.7 | 1260.2 | 1276.9 | 1287.6 | 1299.7 | 1305.8 |
| 72.5° | 7156.9  | 5867.7 | 1526.2 | 708.4  | 740.4  | 931.8  | 1099.1 | 1118.8 | 1124.9 | 1147.7 | 1156.8 |
| 75°   | 4361.3  | 3450.8 | 823.9  | 557.9  | 608.0  | 796.5  | 939.4  | 962.3  | 972.9  | 1000.3 | 1003.3 |
| 77.5° | 2073.5  | 1494.3 | 469.8  | 434.8  | 489.4  | 650.7  | 793.6  | 819.4  | 790.5  | 805.6  | 793.6  |
| 80°   | 700.8   | 554.8  | 296.4  | 331.4  | 373.9  | 507.7  | 635.4  | 661.2  | 600.4  | 597.4  | 591.3  |
| 82.5° | 244.8   | 225.0  | 188.5  | 220.4  | 241.7  | 363.4  | 480.3  | 513.8  | 446.9  | 445.4  | 424.1  |
| 85°   | 95.7    | 91.2   | 104.9  | 120.1  | 144.4  | 223.4  | 316.2  | 332.9  | 275.1  | 221.9  | 218.9  |
| 87.5° | 19.8    | 21.3   | 25.8   | 27.4   | 44.1   | 77.5   | 114.0  | 139.8  | 111.0  | 94.3   | 86.6   |
| 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)