

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: P967835

Luminaire Tested: **NAV-SB5A-760-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5A-760-U-T4W  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24524.1 lumens  
Efficiency: N/A  
Efficacy: 173.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 141.7  
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

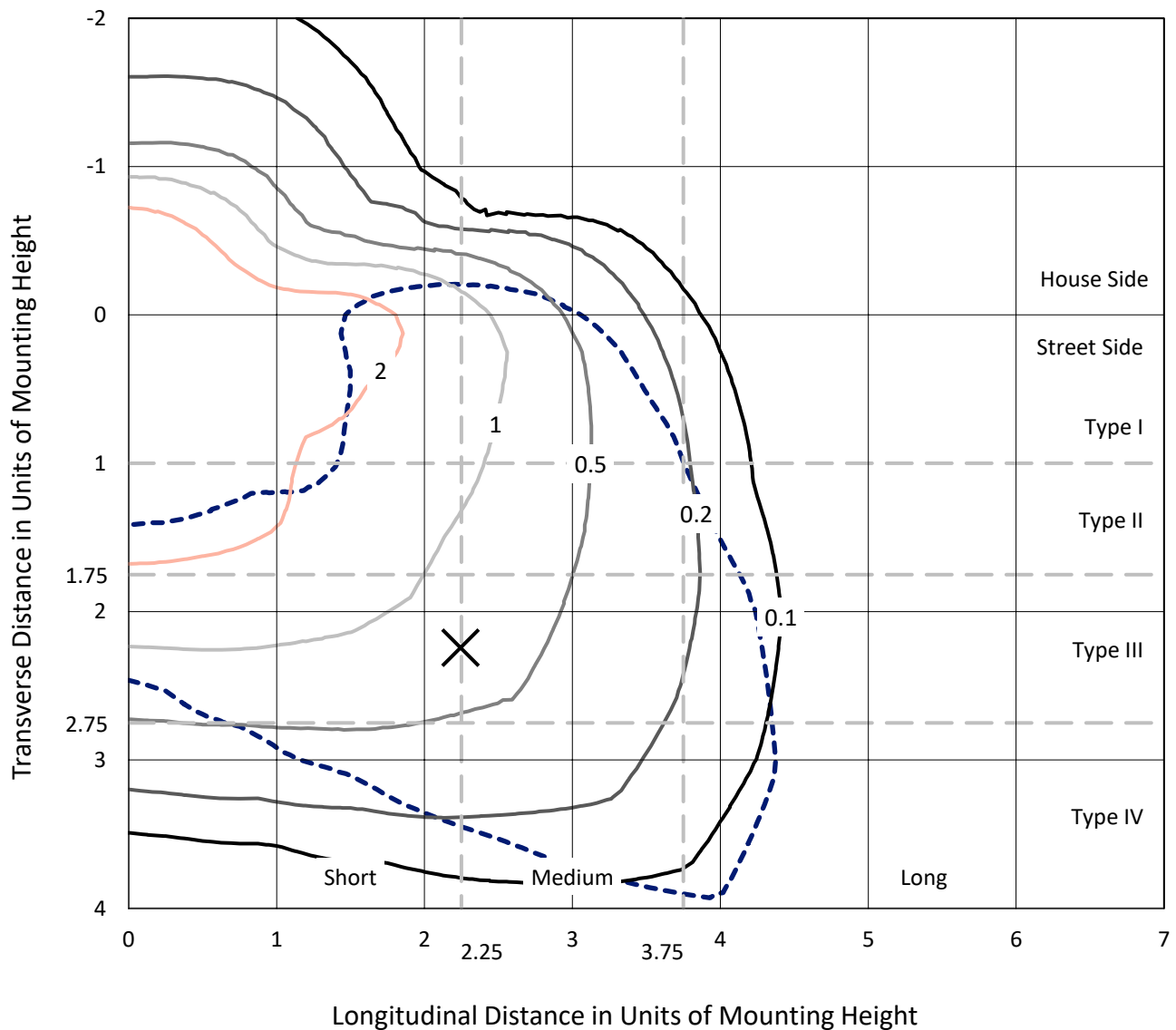


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## Iso-Footcandle Lines of Horizontal Illumination

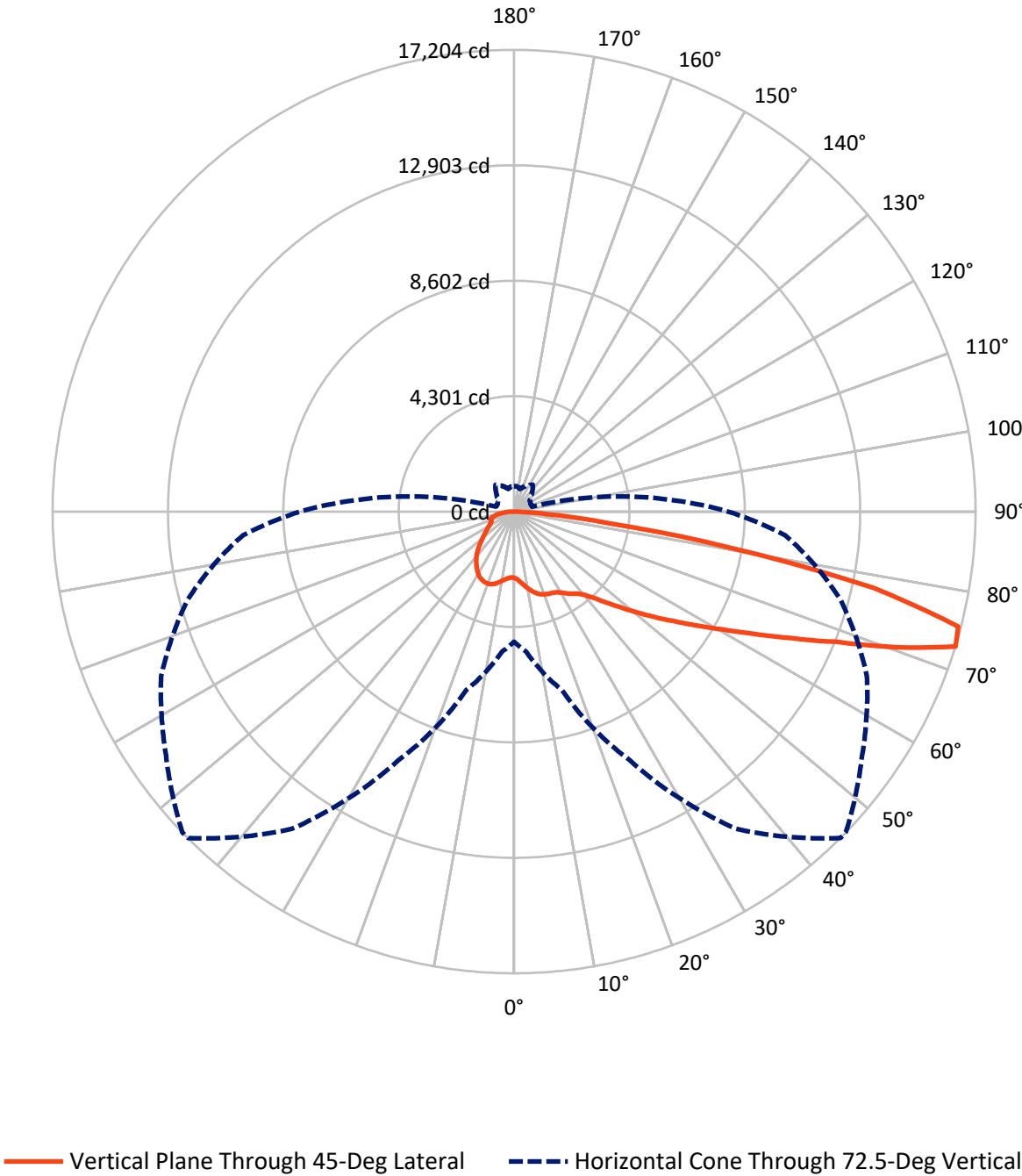
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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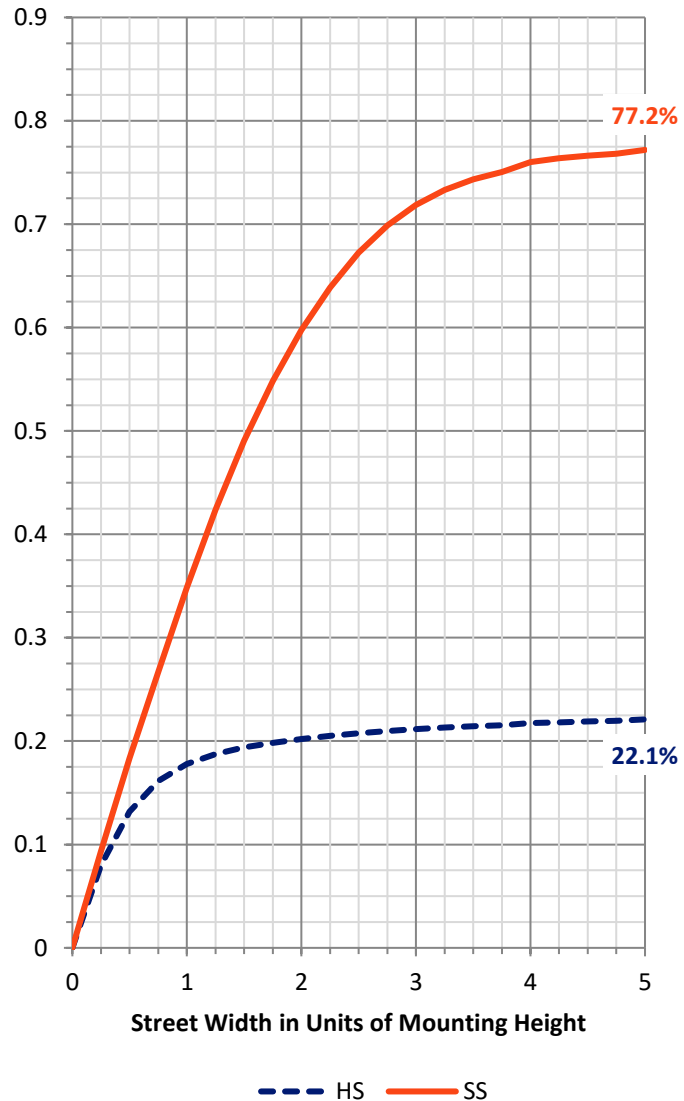
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5544.1   | 0.0    | 5544.1  |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 18980.1  | 0.0    | 18980.1 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 24524.1  | 0.0    | 24524.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 251.8   | 1.0       |
| 10°-20°   | 839.6   | 3.4       |
| 20°-30°   | 1460.4  | 6.0       |
| 30°-40°   | 2093.6  | 8.5       |
| 40°-50°   | 2948.0  | 12.0      |
| 50°-60°   | 4515.4  | 18.4      |
| 60°-70°   | 6541.2  | 26.7      |
| 70°-80°   | 5223.6  | 21.3      |
| 80°-90°   | 650.6   | 2.7       |
| 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°    | 24524.1 | 100.0     |
| 0°-180°   | 24524.1 | 100.0     |

**Coefficient of Utilization**



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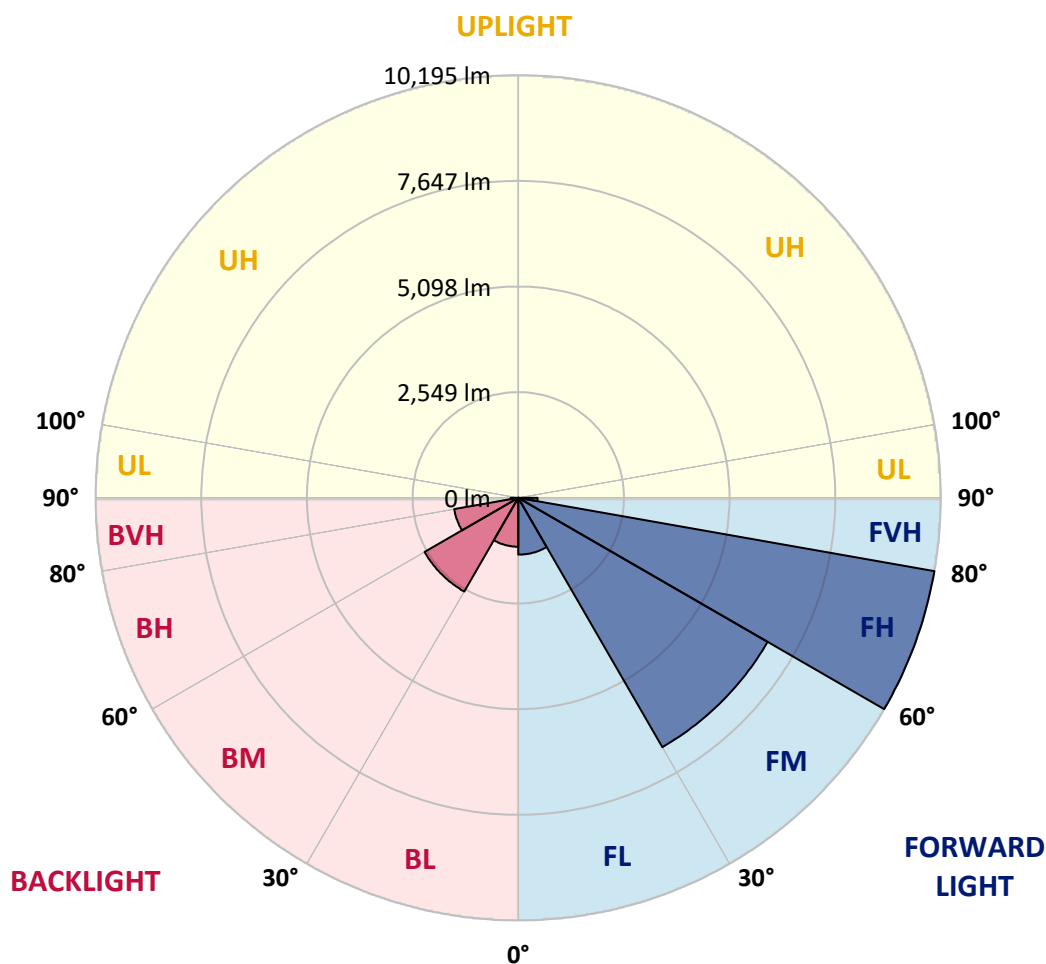
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1371.4  | 5.6       |                         |      |          |
| FM   | (30°-60°)   | 6946.5  | 28.3      |                         |      |          |
| FH   | (60°-80°)   | 10195.4 | 41.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 466.7   | 1.9       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1180.4  | 4.8       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2610.5  | 10.6      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1569.4  | 6.4       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 183.8   | 0.7       |                         |      | 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 Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2474.0 | 2474.0 | 2474.0  | 2474.0  | 2474.0  | 2474.0  | 2474.0  | 2474.0  | 2474.0  | 2474.0  | 2474.0  |
| 2.5°  | 2570.9 | 2587.7 | 2572.2  | 2558.0  | 2551.5  | 2534.7  | 2533.4  | 2523.1  | 2516.7  | 2498.5  | 2493.4  |
| 5°    | 2750.5 | 2772.4 | 2746.6  | 2718.2  | 2692.4  | 2651.0  | 2645.8  | 2616.1  | 2582.5  | 2543.7  | 2521.8  |
| 7.5°  | 2953.3 | 2972.7 | 2943.0  | 2900.3  | 2855.1  | 2786.7  | 2785.3  | 2731.1  | 2678.1  | 2612.2  | 2574.8  |
| 10°   | 3130.4 | 3156.2 | 3116.1  | 3058.0  | 3001.1  | 2923.6  | 2914.6  | 2852.6  | 2785.3  | 2700.1  | 2643.3  |
| 12.5° | 3286.7 | 3304.7 | 3266.0  | 3194.9  | 3129.0  | 3051.5  | 3039.8  | 2971.4  | 2896.4  | 2799.6  | 2727.2  |
| 15°   | 3410.7 | 3433.9 | 3382.2  | 3306.0  | 3236.2  | 3160.0  | 3149.7  | 3087.7  | 3012.8  | 2910.7  | 2817.6  |
| 17.5° | 3492.1 | 3511.4 | 3458.5  | 3373.2  | 3306.0  | 3242.7  | 3234.9  | 3183.2  | 3117.3  | 3014.0  | 2914.6  |
| 20°   | 3523.0 | 3543.7 | 3488.2  | 3401.6  | 3339.6  | 3290.5  | 3286.7  | 3249.1  | 3203.9  | 3109.6  | 3008.9  |
| 22.5° | 3554.1 | 3573.5 | 3501.1  | 3410.7  | 3356.4  | 3325.4  | 3324.1  | 3299.6  | 3281.4  | 3203.9  | 3105.7  |
| 25°   | 3679.3 | 3684.6 | 3587.6  | 3457.1  | 3379.6  | 3352.5  | 3351.2  | 3349.9  | 3357.7  | 3296.9  | 3210.4  |
| 27.5° | 3787.9 | 3786.6 | 3703.9  | 3581.1  | 3461.0  | 3404.2  | 3402.9  | 3415.8  | 3440.3  | 3390.0  | 3319.0  |
| 30°   | 3946.8 | 3932.6 | 3834.4  | 3706.5  | 3596.7  | 3508.8  | 3501.1  | 3489.4  | 3508.8  | 3468.8  | 3427.4  |
| 32.5° | 4284.0 | 4238.8 | 4079.8  | 3852.5  | 3709.1  | 3641.9  | 3631.6  | 3559.2  | 3567.0  | 3542.4  | 3521.8  |
| 35°   | 4767.2 | 4707.7 | 4495.9  | 4128.9  | 3848.6  | 3753.0  | 3747.8  | 3656.1  | 3640.6  | 3618.7  | 3626.3  |
| 37.5° | 5342.1 | 5268.4 | 5021.7  | 4529.5  | 4088.9  | 3882.2  | 3874.4  | 3791.8  | 3728.4  | 3705.2  | 3749.1  |
| 40°   | 5919.6 | 5826.5 | 5622.4  | 5017.8  | 4442.9  | 4098.0  | 4073.3  | 3948.1  | 3875.7  | 3837.0  | 3930.0  |
| 42.5° | 6480.3 | 6402.7 | 6228.3  | 5565.5  | 4879.5  | 4413.1  | 4358.9  | 4144.5  | 4090.2  | 4054.0  | 4222.0  |
| 45°   | 6976.4 | 6906.6 | 6778.6  | 6150.8  | 5391.2  | 4842.1  | 4789.1  | 4439.0  | 4422.3  | 4422.3  | 4665.1  |
| 47.5° | 7379.4 | 7363.9 | 7228.2  | 6747.7  | 5994.5  | 5330.4  | 5238.7  | 4848.6  | 4893.8  | 4963.6  | 5294.2  |
| 50°   | 7826.4 | 7783.7 | 7639.1  | 7335.5  | 6703.7  | 5889.9  | 5814.9  | 5351.1  | 5520.3  | 5711.5  | 6203.7  |
| 52.5° | 8237.2 | 8260.5 | 8099.0  | 7947.8  | 7504.7  | 6513.8  | 6382.1  | 5944.1  | 6309.7  | 6626.2  | 7269.6  |
| 55°   | 8659.7 | 8660.9 | 8615.7  | 8595.0  | 8344.4  | 7203.7  | 7059.0  | 6657.2  | 7238.6  | 7631.3  | 8512.4  |
| 57.5° | 9056.3 | 9058.8 | 9126.1  | 9308.2  | 9318.6  | 7999.5  | 7835.4  | 7533.1  | 8270.8  | 8671.3  | 9794.0  |
| 60°   | 9410.3 | 9428.4 | 9611.8  | 10038.1 | 10175.1 | 8911.6  | 8756.6  | 8568.0  | 9338.0  | 9741.0  | 11141.4 |
| 62.5° | 9529.1 | 9595.0 | 10003.3 | 10609.2 | 11021.3 | 10030.4 | 9877.9  | 9765.6  | 10459.3 | 10833.9 | 12268.0 |
| 65°   | 9327.6 | 9478.8 | 10268.1 | 11080.8 | 11892.0 | 11359.8 | 11208.6 | 11085.9 | 11624.6 | 11977.3 | 13193.0 |
| 67.5° | 8832.8 | 9027.9 | 10252.6 | 11575.5 | 12948.8 | 12959.2 | 12818.3 | 12530.2 | 12873.9 | 13009.5 | 13494.0 |
| 70°   | 7529.2 | 7821.3 | 9349.5  | 11760.2 | 14161.9 | 15146.3 | 15010.7 | 14269.1 | 14120.6 | 13464.3 | 12646.6 |
| 72.5° | 4851.1 | 5243.9 | 6884.6  | 10239.6 | 14431.9 | 17204.4 | 17196.6 | 15838.8 | 14514.6 | 12580.6 | 10142.8 |
| 75°   | 1769.9 | 2010.2 | 3198.8  | 6427.3  | 12114.3 | 17099.8 | 17150.1 | 15570.2 | 13249.9 | 9717.7  | 6318.7  |
| 77.5° | 644.6  | 705.4  | 1043.9  | 2470.1  | 7450.4  | 13720.1 | 13824.7 | 12447.6 | 9430.9  | 4877.0  | 2503.8  |
| 80°   | 338.5  | 372.1  | 534.8   | 958.6   | 3192.4  | 8148.0  | 8312.1  | 7397.5  | 4432.5  | 1468.9  | 750.6   |
| 82.5° | 187.4  | 202.8  | 299.7   | 520.6   | 1437.9  | 3484.3  | 3582.5  | 2922.3  | 1559.3  | 622.7   | 310.1   |
| 85°   | 100.8  | 107.2  | 140.8   | 284.2   | 702.8   | 1208.0  | 1235.0  | 873.3   | 621.5   | 365.6   | 149.9   |
| 87.5° | 29.7   | 36.2   | 46.5    | 90.4    | 275.2   | 271.3   | 277.8   | 173.1   | 245.5   | 184.7   | 49.1    |
| 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°    | 2474.0  | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 | 2474.0 |
| 2.5°  | 2485.6  | 2481.7 | 2467.6 | 2461.1 | 2453.3 | 2452.0 | 2458.5 | 2459.8 | 2461.1 | 2462.4 | 2467.6 |
| 5°    | 2508.9  | 2496.0 | 2483.1 | 2475.3 | 2477.8 | 2479.2 | 2492.1 | 2501.1 | 2507.6 | 2512.8 | 2515.4 |
| 7.5°  | 2554.1  | 2543.7 | 2521.8 | 2520.5 | 2524.4 | 2536.1 | 2552.9 | 2573.5 | 2585.2 | 2594.2 | 2596.7 |
| 10°   | 2621.3  | 2601.9 | 2576.0 | 2579.9 | 2587.7 | 2604.5 | 2639.4 | 2656.2 | 2675.6 | 2692.4 | 2688.5 |
| 12.5° | 2689.8  | 2673.0 | 2643.3 | 2645.8 | 2658.7 | 2688.5 | 2722.1 | 2742.7 | 2755.6 | 2768.5 | 2773.8 |
| 15°   | 2778.9  | 2749.2 | 2716.9 | 2716.9 | 2740.1 | 2772.4 | 2787.9 | 2804.7 | 2812.5 | 2826.7 | 2831.9 |
| 17.5° | 2870.6  | 2831.9 | 2789.2 | 2786.7 | 2815.1 | 2830.5 | 2839.7 | 2842.2 | 2844.8 | 2860.3 | 2865.5 |
| 20°   | 2962.4  | 2919.7 | 2859.0 | 2853.8 | 2860.3 | 2857.7 | 2856.4 | 2853.8 | 2857.7 | 2877.1 | 2884.9 |
| 22.5° | 3052.8  | 3003.7 | 2919.7 | 2896.4 | 2878.4 | 2853.8 | 2852.6 | 2851.2 | 2853.8 | 2873.2 | 2886.1 |
| 25°   | 3158.7  | 3099.3 | 2986.8 | 2917.1 | 2856.4 | 2822.8 | 2826.7 | 2828.0 | 2830.5 | 2846.1 | 2866.7 |
| 27.5° | 3273.7  | 3207.8 | 3048.9 | 2910.7 | 2800.8 | 2777.6 | 2771.2 | 2775.0 | 2784.1 | 2808.6 | 2833.2 |
| 30°   | 3388.6  | 3311.2 | 3105.7 | 2884.9 | 2731.1 | 2698.8 | 2678.1 | 2687.1 | 2715.6 | 2740.1 | 2767.3 |
| 32.5° | 3493.3  | 3415.8 | 3151.0 | 2828.0 | 2641.9 | 2591.6 | 2564.4 | 2576.0 | 2604.5 | 2613.5 | 2645.8 |
| 35°   | 3616.1  | 3528.3 | 3170.3 | 2737.6 | 2545.1 | 2467.6 | 2431.4 | 2414.6 | 2428.8 | 2419.7 | 2448.2 |
| 37.5° | 3753.0  | 3661.3 | 3167.8 | 2618.7 | 2431.4 | 2342.2 | 2291.9 | 2228.6 | 2198.8 | 2167.9 | 2187.2 |
| 40°   | 3955.8  | 3824.1 | 3136.8 | 2475.3 | 2290.6 | 2209.2 | 2118.8 | 2011.5 | 1944.3 | 1883.6 | 1887.4 |
| 42.5° | 4232.3  | 4050.2 | 3079.9 | 2317.7 | 2131.7 | 2055.4 | 1932.7 | 1807.4 | 1701.4 | 1600.6 | 1591.6 |
| 45°   | 4644.4  | 4346.0 | 3008.9 | 2149.7 | 1959.8 | 1884.9 | 1751.8 | 1611.0 | 1490.9 | 1361.7 | 1346.1 |
| 47.5° | 5238.7  | 4743.9 | 2941.6 | 1958.6 | 1779.0 | 1710.5 | 1590.4 | 1459.9 | 1317.7 | 1192.5 | 1178.2 |
| 50°   | 6055.2  | 5314.9 | 2879.6 | 1772.5 | 1600.6 | 1549.0 | 1453.4 | 1320.3 | 1176.9 | 1076.1 | 1069.7 |
| 52.5° | 7093.9  | 6091.4 | 2853.8 | 1593.0 | 1434.0 | 1414.6 | 1338.4 | 1214.4 | 1078.7 | 993.4  | 987.0  |
| 55°   | 8286.3  | 7020.2 | 2853.8 | 1421.1 | 1288.0 | 1294.5 | 1241.5 | 1126.6 | 1009.0 | 932.7  | 925.0  |
| 57.5° | 9503.3  | 7960.8 | 2802.1 | 1262.2 | 1164.0 | 1191.2 | 1157.5 | 1056.8 | 950.9  | 872.1  | 859.2  |
| 60°   | 10624.6 | 8748.8 | 2592.8 | 1117.5 | 1054.2 | 1096.9 | 1074.9 | 988.3  | 859.2  | 793.2  | 782.9  |
| 62.5° | 11486.4 | 9193.2 | 2189.8 | 1002.6 | 963.8  | 1012.9 | 1001.2 | 897.9  | 842.3  | 815.2  | 806.2  |
| 65°   | 11917.9 | 9120.9 | 1674.3 | 900.5  | 887.5  | 963.8  | 939.2  | 935.3  | 891.4  | 860.4  | 850.0  |
| 67.5° | 11653.0 | 8498.2 | 1214.4 | 825.5  | 843.6  | 918.5  | 1012.9 | 1028.4 | 947.0  | 886.2  | 876.0  |
| 70°   | 10491.6 | 7371.6 | 904.4  | 754.5  | 788.0  | 919.8  | 1155.0 | 1076.1 | 928.9  | 857.8  | 846.2  |
| 72.5° | 7981.5  | 5497.1 | 701.5  | 679.6  | 715.8  | 926.3  | 1218.3 | 1054.2 | 877.2  | 948.2  | 940.5  |
| 75°   | 4564.3  | 3017.9 | 563.2  | 587.8  | 625.2  | 865.6  | 1185.9 | 997.3  | 837.1  | 870.7  | 870.7  |
| 77.5° | 1740.2  | 1160.1 | 465.0  | 497.4  | 502.6  | 755.7  | 1134.3 | 993.4  | 797.1  | 777.8  | 709.3  |
| 80°   | 603.3   | 453.5  | 385.0  | 395.3  | 388.9  | 671.8  | 1087.8 | 864.3  | 652.4  | 583.9  | 564.6  |
| 82.5° | 246.7   | 226.1  | 304.9  | 292.0  | 276.4  | 521.9  | 878.5  | 706.6  | 533.5  | 471.5  | 466.4  |
| 85°   | 107.2   | 143.4  | 201.5  | 177.0  | 160.2  | 361.7  | 704.1  | 598.2  | 450.9  | 388.9  | 387.6  |
| 87.5° | 21.9    | 54.2   | 85.3   | 80.1   | 82.7   | 241.6  | 500.0  | 425.1  | 319.1  | 239.0  | 187.4  |
| 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)