

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: P969756

Luminaire Tested: **NAV-SB6A-722-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969756  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-722-U-T4W-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

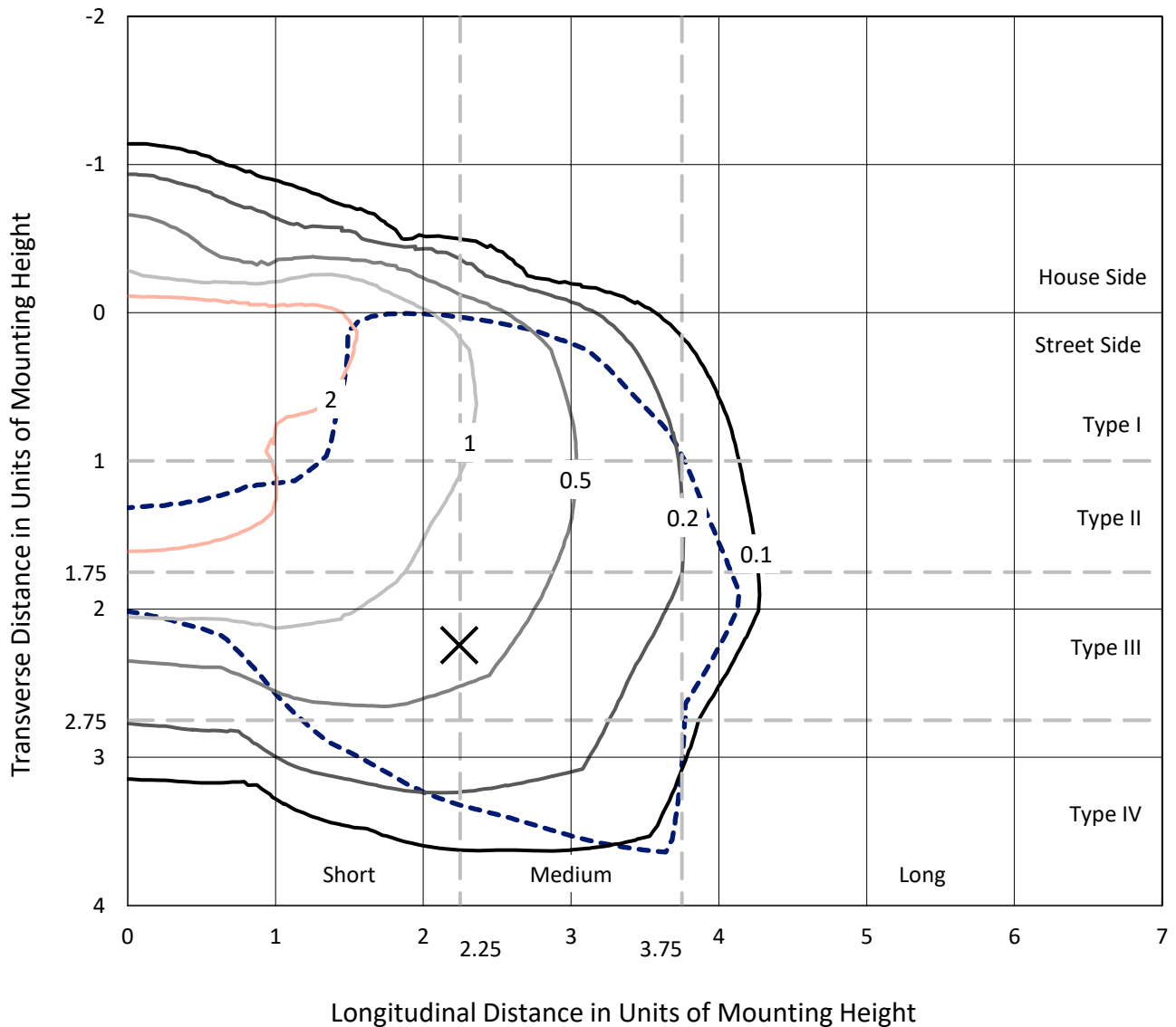
Lumens per Lamp: N/A  
Luminaire Lumens: 17741.7 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): 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

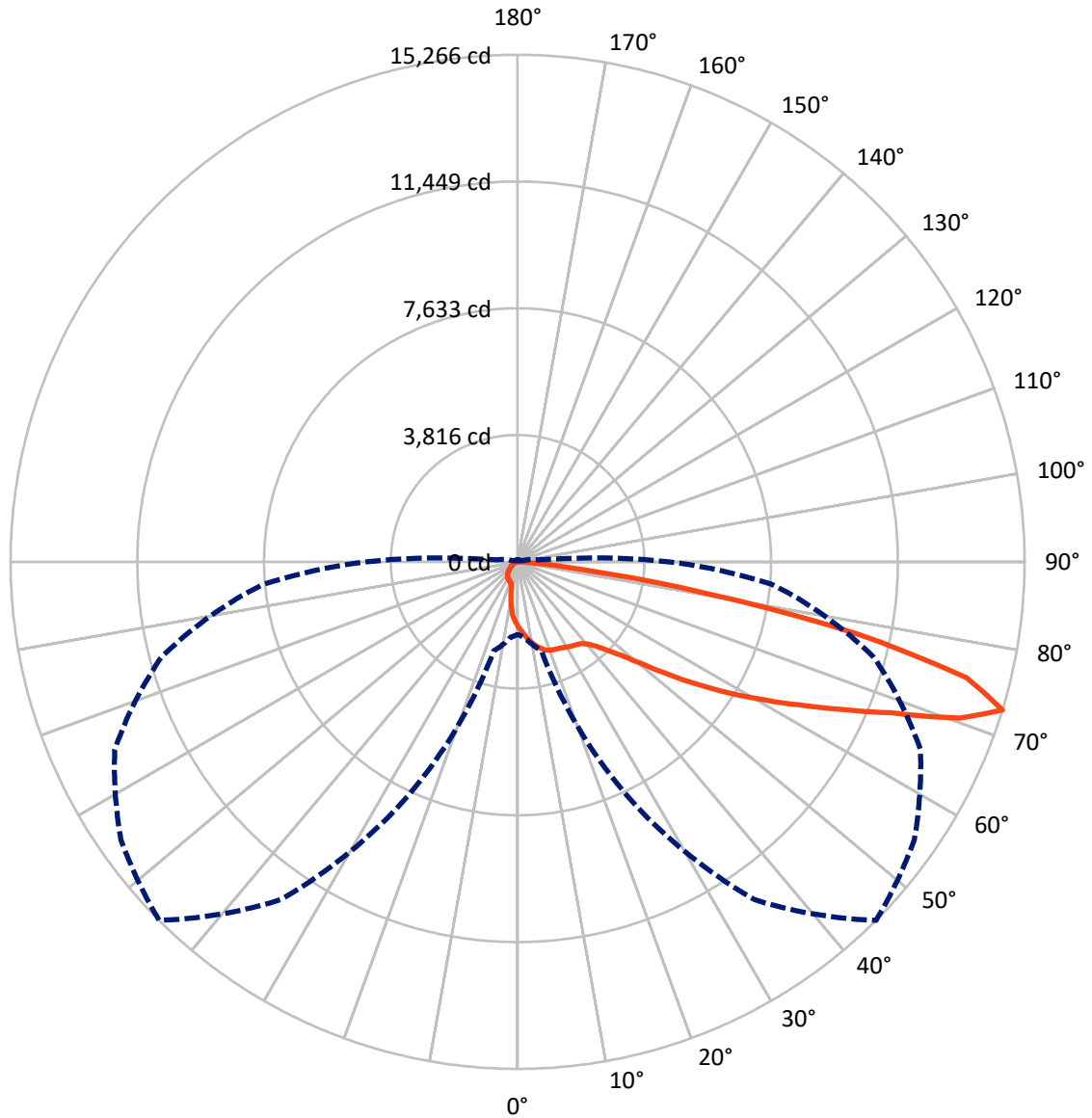
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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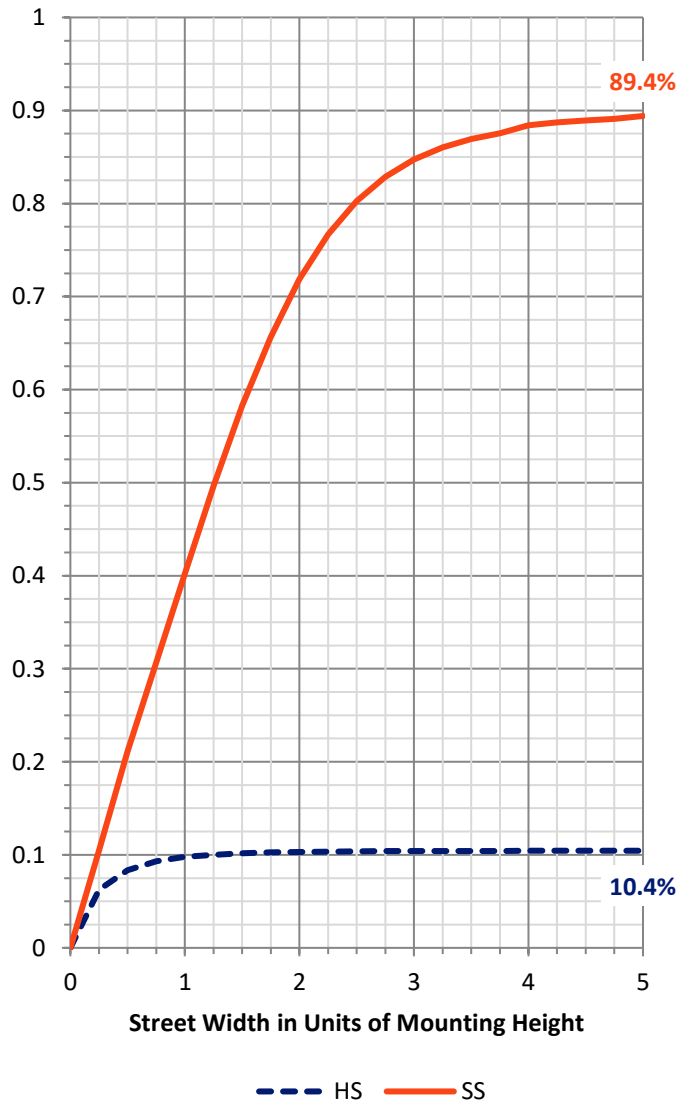
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1864.2   | 0.0    | 1864.2  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 15877.5  | 0.0    | 15877.5 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 17741.7  | 0.0    | 17741.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 183.1   | 1.0       |
| 10°-20°   | 535.2   | 3.0       |
| 20°-30°   | 878.9   | 5.0       |
| 30°-40°   | 1246.5  | 7.0       |
| 40°-50°   | 2060.3  | 11.6      |
| 50°-60°   | 3701.1  | 20.9      |
| 60°-70°   | 5139.2  | 29.0      |
| 70°-80°   | 3727.8  | 21.0      |
| 80°-90°   | 269.5   | 1.5       |
| 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°    | 17741.7 | 100.0     |
| 0°-180°   | 17741.7 | 100.0     |

**Coefficient of Utilization**



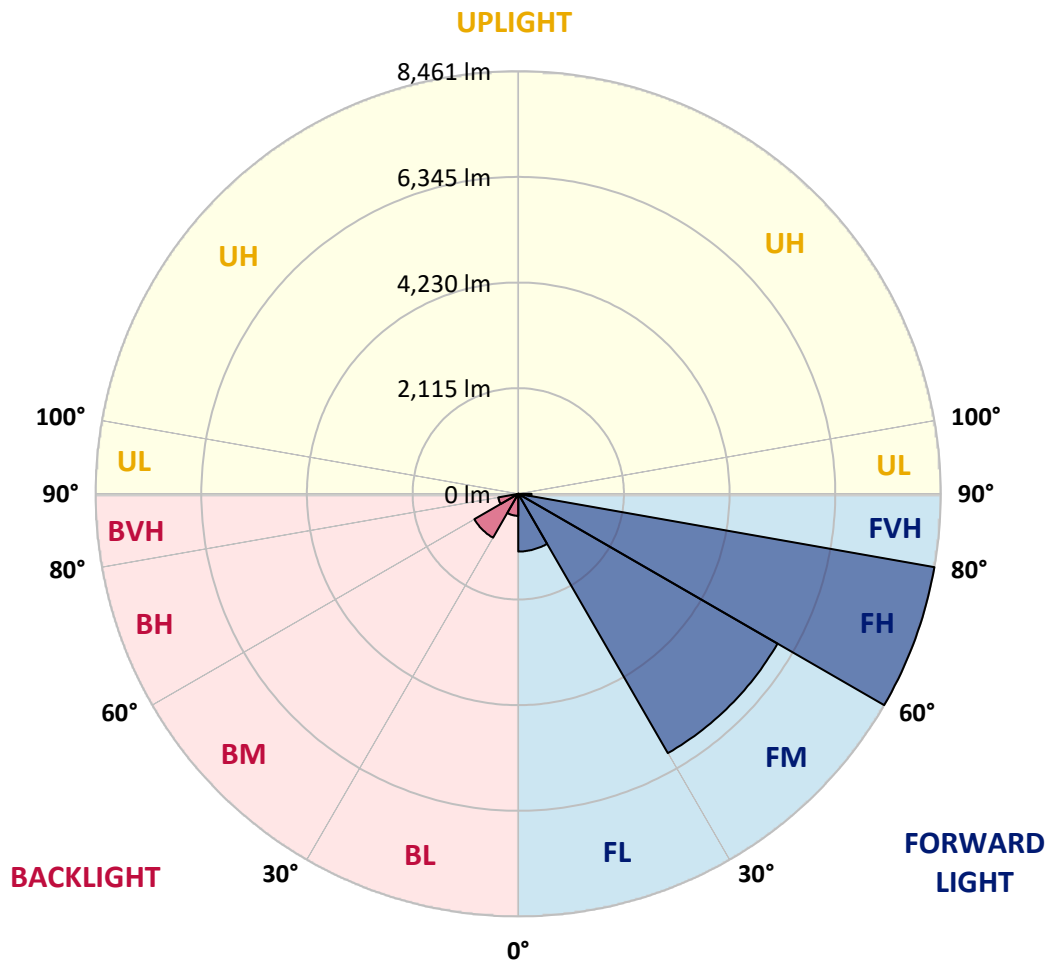
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1155.7 | 6.5       |                         |      |          |
| FM (30°-60°)   | 5994.1 | 33.8      |                         |      |          |
| FH (60°-80°)   | 8460.5 | 47.7      |                         |      | G4/12000 |
| FVH (80°-90°)  | 267.2  | 1.5       |                         |      | G3/500   |
| BL (0°-30°)    | 441.5  | 2.5       | B1/500                  |      |          |
| BM (30°-60°)   | 1013.8 | 5.7       | B2/2500                 |      |          |
| BH (60°-80°)   | 406.5  | 2.3       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 2.3    | 0.0       |                         |      | G0/10    |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1943.6 | 1943.6 | 1943.6 | 1943.6  | 1943.6  | 1943.6  | 1943.6  | 1943.6  | 1943.6  | 1943.6  | 1943.6  |
| 2.5°  | 2122.9 | 2126.5 | 2124.1 | 2109.6  | 2085.4  | 2072.0  | 2064.8  | 2040.6  | 2024.8  | 1996.9  | 1967.9  |
| 5°    | 2317.8 | 2332.4 | 2323.9 | 2294.9  | 2248.8  | 2216.2  | 2206.4  | 2156.8  | 2112.0  | 2059.9  | 1999.4  |
| 7.5°  | 2524.9 | 2532.2 | 2516.5 | 2478.9  | 2417.2  | 2361.4  | 2353.0  | 2283.9  | 2212.5  | 2132.5  | 2050.2  |
| 10°   | 2704.2 | 2712.7 | 2688.4 | 2633.9  | 2563.6  | 2494.6  | 2482.5  | 2406.3  | 2321.5  | 2223.4  | 2118.1  |
| 12.5° | 2854.3 | 2862.8 | 2831.3 | 2765.9  | 2688.4  | 2616.9  | 2604.8  | 2524.9  | 2431.7  | 2322.6  | 2191.9  |
| 15°   | 2968.2 | 2983.9 | 2941.5 | 2871.2  | 2787.7  | 2716.2  | 2710.2  | 2631.5  | 2540.7  | 2419.6  | 2280.3  |
| 17.5° | 3034.7 | 3050.5 | 3010.5 | 2925.8  | 2854.3  | 2793.7  | 2786.5  | 2721.1  | 2636.3  | 2520.1  | 2366.3  |
| 20°   | 3045.7 | 3060.1 | 3017.8 | 2943.9  | 2884.6  | 2836.2  | 2832.5  | 2785.3  | 2723.5  | 2612.1  | 2459.5  |
| 22.5° | 3013.0 | 3031.1 | 2992.4 | 2933.0  | 2891.8  | 2866.4  | 2861.6  | 2834.9  | 2799.8  | 2705.4  | 2546.7  |
| 25°   | 2979.1 | 2993.6 | 2964.5 | 2912.4  | 2890.6  | 2888.2  | 2891.8  | 2887.0  | 2879.7  | 2799.8  | 2648.4  |
| 27.5° | 2976.6 | 2992.4 | 2959.7 | 2910.0  | 2897.9  | 2923.3  | 2927.0  | 2950.0  | 2956.0  | 2885.8  | 2746.5  |
| 30°   | 2997.2 | 3008.1 | 2976.6 | 2924.5  | 2918.5  | 2976.6  | 2977.8  | 3019.0  | 3028.7  | 2958.5  | 2843.5  |
| 32.5° | 3042.0 | 3054.1 | 3022.6 | 2946.4  | 2937.9  | 3019.0  | 3022.6  | 3077.2  | 3092.8  | 3035.9  | 2945.1  |
| 35°   | 3147.4 | 3161.9 | 3125.5 | 3006.9  | 2976.6  | 3059.0  | 3069.9  | 3134.0  | 3165.5  | 3118.4  | 3050.5  |
| 37.5° | 3410.2 | 3367.7 | 3318.1 | 3129.2  | 3065.1  | 3121.9  | 3140.1  | 3215.2  | 3270.9  | 3216.3  | 3176.5  |
| 40°   | 4062.9 | 3929.6 | 3774.7 | 3337.5  | 3220.0  | 3256.3  | 3270.9  | 3346.0  | 3422.3  | 3369.0  | 3349.6  |
| 42.5° | 5042.6 | 4885.2 | 4635.7 | 3817.1  | 3453.7  | 3471.9  | 3482.8  | 3548.2  | 3656.0  | 3613.6  | 3618.5  |
| 45°   | 5915.7 | 5858.8 | 5604.5 | 4635.7  | 3890.9  | 3801.3  | 3814.6  | 3848.6  | 4007.1  | 3991.5  | 4022.9  |
| 47.5° | 6586.5 | 6553.8 | 6357.7 | 5575.4  | 4629.6  | 4204.5  | 4242.1  | 4257.8  | 4486.7  | 4542.4  | 4627.2  |
| 50°   | 7102.4 | 7090.3 | 6914.8 | 6411.0  | 5594.8  | 4799.2  | 4812.5  | 4778.5  | 5121.3  | 5259.4  | 5420.4  |
| 52.5° | 7589.3 | 7630.5 | 7500.8 | 7187.2  | 6625.3  | 5577.8  | 5575.4  | 5415.6  | 5878.2  | 6086.4  | 6361.4  |
| 55°   | 8028.9 | 8043.4 | 8056.7 | 7979.2  | 7662.0  | 6464.3  | 6441.3  | 6179.7  | 6756.1  | 6971.6  | 7269.6  |
| 57.5° | 8441.8 | 8447.8 | 8566.5 | 8725.2  | 8741.0  | 7416.1  | 7373.7  | 7060.1  | 7715.3  | 7869.0  | 8051.9  |
| 60°   | 8719.2 | 8747.0 | 8997.7 | 9438.5  | 9631.0  | 8398.2  | 8375.3  | 8055.5  | 8691.3  | 8762.7  | 8728.8  |
| 62.5° | 8319.5 | 8489.0 | 9121.2 | 9995.5  | 10471.5 | 9486.9  | 9476.0  | 9175.7  | 9718.2  | 9660.1  | 9369.4  |
| 65°   | 6734.4 | 7021.4 | 8133.1 | 10372.2 | 11296.1 | 10702.7 | 10718.5 | 10398.8 | 10773.0 | 10584.0 | 9890.2  |
| 67.5° | 4710.8 | 5013.5 | 6328.7 | 10402.4 | 12217.7 | 12130.6 | 12221.4 | 11720.0 | 11893.2 | 11469.3 | 10013.7 |
| 70°   | 3257.6 | 3413.8 | 4269.9 | 9750.9  | 12935.8 | 14097.1 | 14094.8 | 13342.7 | 13007.2 | 11872.6 | 9384.0  |
| 72.5° | 2190.7 | 2271.8 | 2773.1 | 7735.8  | 12407.8 | 15265.7 | 15195.5 | 14582.8 | 13382.7 | 11103.6 | 7666.8  |
| 75°   | 924.0  | 983.3  | 1283.6 | 4347.4  | 9816.3  | 13966.3 | 13776.2 | 12887.4 | 11890.7 | 8743.4  | 4783.5  |
| 77.5° | 293.0  | 318.5  | 506.1  | 1556.2  | 5407.1  | 10498.0 | 10297.0 | 8048.3  | 7969.6  | 4386.2  | 1748.6  |
| 80°   | 139.3  | 162.3  | 284.5  | 624.8   | 2127.7  | 5709.9  | 5682.0  | 3651.2  | 3428.3  | 1184.4  | 351.2   |
| 82.5° | 60.6   | 71.4   | 157.4  | 334.3   | 951.8   | 2036.9  | 2078.1  | 1242.5  | 1028.2  | 449.3   | 107.7   |
| 85°   | 19.4   | 25.4   | 72.7   | 153.8   | 402.0   | 506.1   | 500.1   | 295.5   | 414.2   | 244.7   | 37.5    |
| 87.5° | 0.0    | 0.0    | 24.2   | 35.2    | 41.2    | 29.1    | 32.7    | 25.4    | 115.0   | 67.9    | 13.3    |
| 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°    | 1943.6 | 1943.6 | 1943.6 | 1943.6 | 1943.6 | 1943.6 | 1943.6 | 1943.6 | 1943.6 | 1943.6 | 1943.6 |
| 2.5°  | 1953.3 | 1934.0 | 1900.0 | 1868.6 | 1840.7 | 1812.8 | 1795.9 | 1771.7 | 1769.3 | 1769.3 | 1775.3 |
| 5°    | 1966.7 | 1935.2 | 1874.6 | 1810.5 | 1736.6 | 1666.3 | 1596.1 | 1528.3 | 1506.4 | 1490.8 | 1498.0 |
| 7.5°  | 2005.4 | 1955.8 | 1860.1 | 1737.8 | 1597.3 | 1443.5 | 1335.7 | 1219.4 | 1174.6 | 1150.5 | 1154.0 |
| 10°   | 2061.1 | 1993.3 | 1848.0 | 1633.6 | 1406.0 | 1196.5 | 1042.6 | 916.8  | 868.3  | 847.7  | 847.7  |
| 12.5° | 2122.9 | 2039.3 | 1826.1 | 1504.1 | 1196.5 | 945.8  | 795.6  | 737.5  | 730.2  | 730.2  | 730.2  |
| 15°   | 2196.8 | 2095.0 | 1788.6 | 1351.5 | 977.2  | 748.4  | 695.2  | 697.5  | 704.8  | 709.6  | 709.6  |
| 17.5° | 2273.0 | 2154.3 | 1729.3 | 1180.7 | 783.5  | 673.3  | 674.6  | 678.1  | 684.2  | 689.0  | 689.0  |
| 20°   | 2355.3 | 2213.7 | 1650.6 | 999.1  | 672.1  | 651.5  | 655.2  | 658.8  | 663.6  | 666.0  | 667.3  |
| 22.5° | 2443.8 | 2269.4 | 1557.4 | 821.0  | 634.6  | 633.3  | 634.6  | 638.2  | 644.2  | 644.2  | 646.7  |
| 25°   | 2538.2 | 2331.2 | 1450.8 | 691.5  | 615.2  | 615.2  | 617.6  | 620.0  | 624.8  | 624.8  | 626.1  |
| 27.5° | 2635.1 | 2388.0 | 1338.1 | 623.7  | 598.2  | 597.1  | 597.1  | 600.6  | 603.1  | 604.2  | 605.5  |
| 30°   | 2741.7 | 2454.7 | 1225.5 | 609.2  | 584.9  | 578.8  | 575.2  | 577.7  | 580.0  | 581.3  | 583.7  |
| 32.5° | 2850.6 | 2518.8 | 1125.0 | 615.2  | 571.5  | 560.7  | 548.6  | 546.1  | 546.1  | 551.0  | 554.6  |
| 35°   | 2971.8 | 2589.1 | 1047.6 | 635.8  | 564.4  | 534.0  | 514.7  | 503.8  | 505.0  | 512.3  | 515.9  |
| 37.5° | 3117.1 | 2673.9 | 990.6  | 653.9  | 559.4  | 503.8  | 472.3  | 459.0  | 450.5  | 459.0  | 456.5  |
| 40°   | 3307.3 | 2798.6 | 949.5  | 668.5  | 553.4  | 468.6  | 426.3  | 404.5  | 388.7  | 393.6  | 391.1  |
| 42.5° | 3587.0 | 2994.7 | 933.7  | 669.6  | 540.1  | 427.5  | 379.0  | 349.9  | 327.0  | 328.2  | 323.3  |
| 45°   | 3979.4 | 3304.8 | 1014.9 | 653.9  | 511.1  | 382.6  | 329.4  | 290.6  | 276.1  | 272.4  | 267.6  |
| 47.5° | 4517.0 | 3756.5 | 1202.5 | 621.3  | 468.6  | 339.1  | 281.0  | 248.3  | 237.4  | 231.3  | 227.7  |
| 50°   | 5237.5 | 4336.6 | 1410.8 | 584.9  | 426.3  | 297.9  | 241.0  | 220.4  | 213.1  | 207.0  | 205.8  |
| 52.5° | 6073.1 | 4925.1 | 1581.6 | 548.6  | 383.9  | 261.6  | 215.6  | 203.5  | 197.4  | 192.6  | 191.4  |
| 55°   | 6839.7 | 5330.8 | 1571.8 | 509.8  | 342.8  | 232.5  | 197.4  | 190.1  | 182.9  | 178.0  | 175.6  |
| 57.5° | 7316.9 | 5387.7 | 1295.8 | 467.4  | 295.5  | 209.5  | 180.4  | 175.6  | 167.1  | 161.0  | 159.9  |
| 60°   | 7536.0 | 5063.2 | 908.3  | 411.7  | 248.3  | 187.7  | 162.3  | 159.9  | 148.9  | 140.4  | 138.1  |
| 62.5° | 7576.0 | 4460.1 | 605.5  | 342.8  | 207.0  | 167.1  | 144.1  | 140.4  | 126.0  | 111.4  | 104.1  |
| 65°   | 7413.7 | 3597.9 | 419.0  | 267.6  | 176.8  | 145.3  | 123.5  | 116.2  | 100.6  | 86.0   | 81.2   |
| 67.5° | 6900.2 | 2526.1 | 291.8  | 192.6  | 150.2  | 115.0  | 98.1   | 95.6   | 83.5   | 71.4   | 67.9   |
| 70°   | 5959.2 | 1439.9 | 195.0  | 144.1  | 118.7  | 78.7   | 77.5   | 79.9   | 67.9   | 58.1   | 53.3   |
| 72.5° | 4569.0 | 658.8  | 121.1  | 105.4  | 81.2   | 53.3   | 61.8   | 62.9   | 52.1   | 43.6   | 38.7   |
| 75°   | 2689.6 | 282.2  | 76.3   | 67.9   | 41.2   | 35.2   | 44.8   | 46.0   | 35.2   | 27.9   | 24.2   |
| 77.5° | 915.5  | 106.6  | 48.5   | 40.0   | 20.6   | 19.4   | 29.1   | 29.1   | 19.4   | 10.9   | 8.5    |
| 80°   | 208.3  | 40.0   | 24.2   | 15.8   | 9.7    | 8.5    | 9.7    | 8.5    | 4.8    | 1.2    | 0.0    |
| 82.5° | 59.3   | 15.8   | 9.7    | 6.0    | 3.6    | 3.6    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 16.9   | 7.3    | 2.5    | 2.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 7.3    | 1.2    | 0.0    | 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)