

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: P969747

Luminaire Tested: **NAV-SB6A-722-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969747  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-722-U-T2U-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

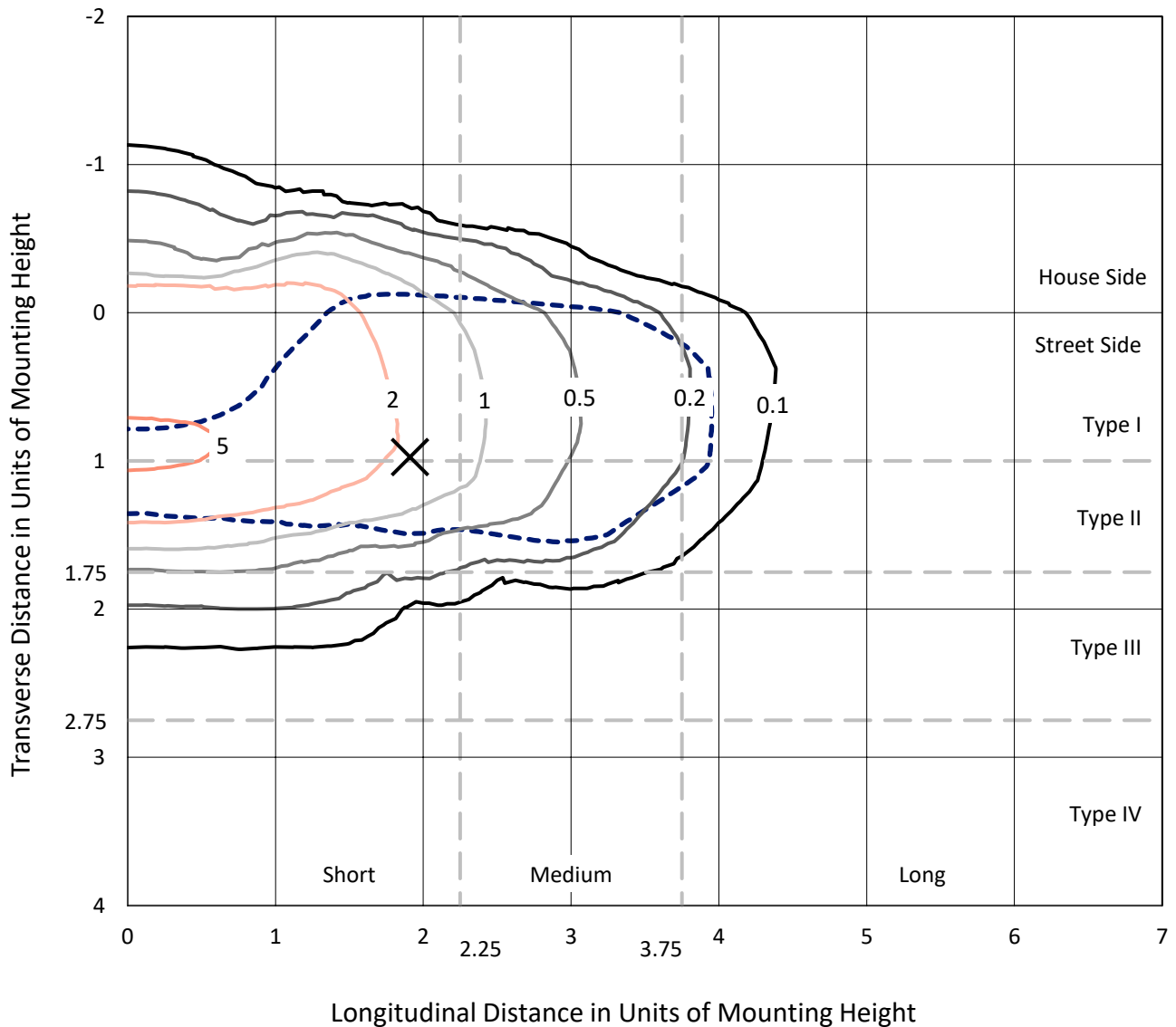
Lumens per Lamp: N/A  
Luminaire Lumens: 17602.3 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): 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

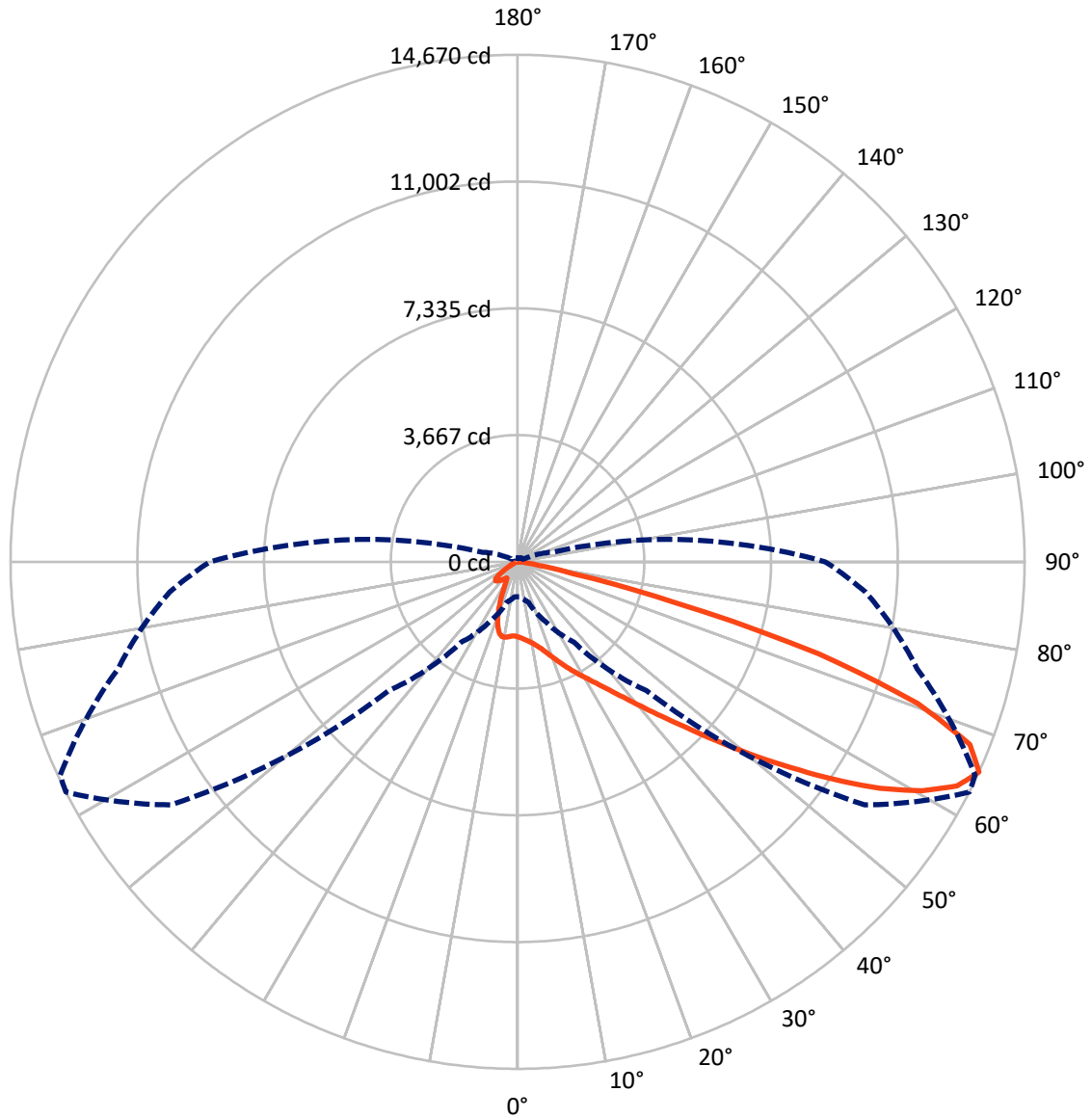
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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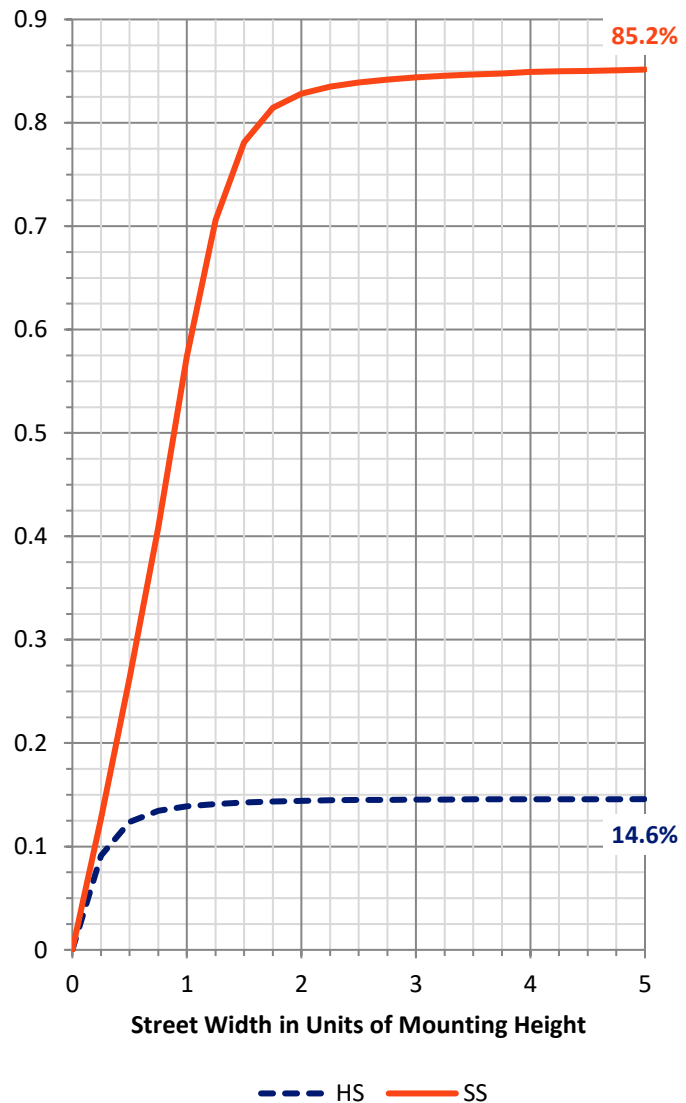
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2587.4   | 0.0    | 2587.4  |
|                    | % Fixture | 14.7     | 0.0    | 14.7    |
| <b>Street Side</b> | Lumens    | 15014.9  | 0.0    | 15014.9 |
|                    | % Fixture | 85.3     | 0.0    | 85.3    |
| <b>Total</b>       | Lumens    | 17602.3  | 0.0    | 17602.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 204.7   | 1.2       |
| 10°-20°   | 567.9   | 3.2       |
| 20°-30°   | 988.9   | 5.6       |
| 30°-40°   | 1782.4  | 10.1      |
| 40°-50°   | 3535.1  | 20.1      |
| 50°-60°   | 4815.4  | 27.4      |
| 60°-70°   | 3843.6  | 21.8      |
| 70°-80°   | 1739.3  | 9.9       |
| 80°-90°   | 125.0   | 0.7       |
| 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°    | 17602.3 | 100.0     |
| 0°-180°   | 17602.3 | 100.0     |

**Coefficient of Utilization**

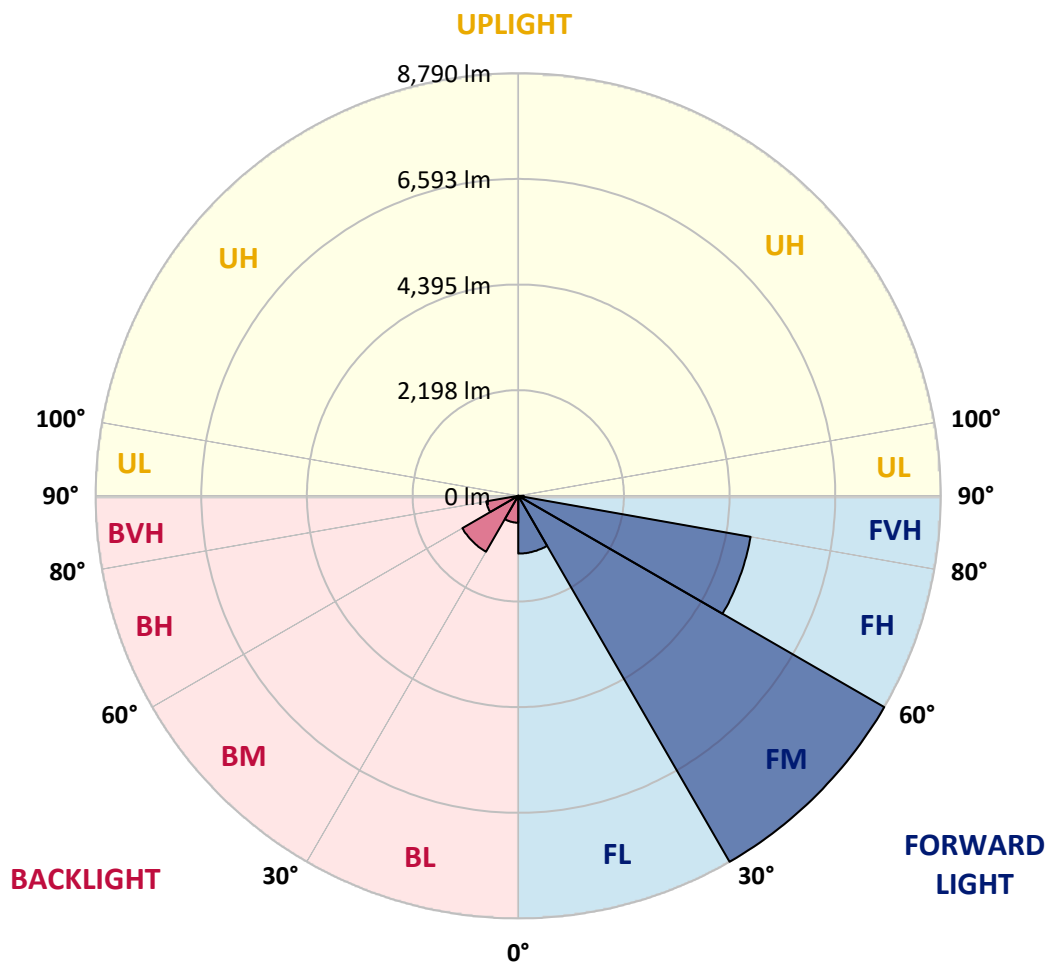


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1201.6 | 6.8       |                         |      |         |
| FM (30°-60°)   | 8790.2 | 49.9      |                         |      |         |
| FH (60°-80°)   | 4907.4 | 27.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 115.7  | 0.7       |                         |      | G2/225  |
| BL (0°-30°)    | 560.0  | 3.2       | B2/1000                 |      |         |
| BM (30°-60°)   | 1342.7 | 7.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 675.5  | 3.8       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 9.3    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 45°     | 55°     | 63°     | 65°     | 75°     | 85°     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2172.5 | 2172.5 | 2172.5  | 2172.5  | 2172.5  | 2172.5  | 2172.5  | 2172.5  | 2172.5  | 2172.5  | 2172.5  |
| 2.5°  | 2223.3 | 2217.3 | 2225.8  | 2222.1  | 2219.6  | 2214.8  | 2212.5  | 2210.0  | 2205.2  | 2201.5  | 2186.9  |
| 5°    | 2229.4 | 2225.8 | 2234.2  | 2241.5  | 2248.7  | 2256.0  | 2259.6  | 2264.5  | 2259.6  | 2250.0  | 2235.4  |
| 7.5°  | 2178.5 | 2176.1 | 2194.2  | 2216.0  | 2248.7  | 2276.6  | 2306.9  | 2323.9  | 2325.0  | 2321.4  | 2305.6  |
| 10°   | 2174.8 | 2168.8 | 2186.9  | 2213.6  | 2256.0  | 2305.6  | 2358.9  | 2395.3  | 2400.1  | 2415.8  | 2398.9  |
| 12.5° | 2231.8 | 2225.8 | 2251.2  | 2280.2  | 2323.9  | 2376.0  | 2441.2  | 2492.2  | 2499.5  | 2521.2  | 2509.1  |
| 15°   | 2327.5 | 2319.0 | 2348.1  | 2385.6  | 2441.2  | 2500.6  | 2569.7  | 2615.7  | 2621.7  | 2648.4  | 2626.6  |
| 17.5° | 2438.9 | 2430.4 | 2464.3  | 2504.3  | 2564.9  | 2645.9  | 2725.9  | 2776.7  | 2784.0  | 2800.9  | 2760.9  |
| 20°   | 2581.8 | 2570.9 | 2597.6  | 2633.8  | 2698.0  | 2794.9  | 2890.6  | 2963.2  | 2962.0  | 2962.0  | 2896.6  |
| 22.5° | 2747.6 | 2730.7 | 2753.8  | 2782.8  | 2843.4  | 2960.8  | 3087.9  | 3173.9  | 3173.9  | 3140.0  | 3032.3  |
| 25°   | 2925.7 | 2908.7 | 2934.2  | 2960.8  | 3014.1  | 3147.3  | 3296.2  | 3402.8  | 3407.6  | 3349.5  | 3177.6  |
| 27.5° | 3148.5 | 3126.7 | 3146.0  | 3177.6  | 3209.1  | 3344.7  | 3521.5  | 3645.0  | 3647.4  | 3557.8  | 3315.6  |
| 30°   | 3577.1 | 3515.4 | 3454.9  | 3420.9  | 3435.5  | 3569.9  | 3758.8  | 3895.6  | 3907.8  | 3784.2  | 3465.7  |
| 32.5° | 4361.9 | 4349.8 | 4136.6  | 3858.1  | 3712.8  | 3812.1  | 4024.0  | 4188.7  | 4195.9  | 4037.4  | 3660.7  |
| 35°   | 5581.3 | 5566.8 | 5224.1  | 4693.7  | 4220.2  | 4136.6  | 4346.1  | 4541.1  | 4536.2  | 4357.1  | 3913.9  |
| 37.5° | 7036.8 | 7023.6 | 6571.9  | 5862.3  | 5095.7  | 4627.1  | 4761.5  | 4966.1  | 4996.5  | 4761.5  | 4240.7  |
| 40°   | 8280.6 | 8230.9 | 7945.1  | 7260.9  | 6258.2  | 5440.8  | 5352.4  | 5488.1  | 5519.5  | 5241.0  | 4656.2  |
| 42.5° | 9222.6 | 9180.3 | 9035.0  | 8607.5  | 7665.4  | 6644.6  | 6048.7  | 6100.8  | 6136.0  | 5801.7  | 5133.3  |
| 45°   | 9710.6 | 9701.0 | 9759.1  | 9719.2  | 9099.1  | 8121.9  | 7044.1  | 6827.4  | 6840.7  | 6423.0  | 5674.5  |
| 47.5° | 9779.7 | 9774.8 | 10040.1 | 10415.4 | 10331.9 | 9788.1  | 8321.7  | 7733.2  | 7686.0  | 7124.1  | 6263.1  |
| 50°   | 9372.8 | 9363.2 | 9871.8  | 10575.3 | 11155.4 | 11188.1 | 9772.5  | 8754.0  | 8649.9  | 7849.4  | 6877.0  |
| 52.5° | 8073.4 | 8071.1 | 8906.6  | 10077.6 | 11444.7 | 12413.6 | 11206.2 | 9875.4  | 9701.0  | 8617.2  | 7526.1  |
| 55°   | 6212.2 | 6257.0 | 7214.9  | 8599.0  | 10916.8 | 13003.3 | 12493.4 | 11120.2 | 10852.6 | 9389.8  | 8124.4  |
| 57.5° | 4400.6 | 4466.0 | 5413.0  | 6645.7  | 9279.5  | 12654.5 | 13364.2 | 12367.5 | 12079.3 | 10159.9 | 8731.1  |
| 60°   | 2363.8 | 2421.9 | 3370.1  | 4841.4  | 6903.7  | 11353.9 | 13823.0 | 13450.2 | 13177.6 | 10891.3 | 9278.4  |
| 62.5° | 1408.4 | 1427.7 | 1820.1  | 3125.5  | 4669.5  | 8674.1  | 13628.1 | 14274.8 | 14050.7 | 11505.3 | 9754.3  |
| 65°   | 1011.2 | 1014.7 | 1212.2  | 1908.4  | 2834.8  | 5270.1  | 12260.9 | 14669.6 | 14600.5 | 11967.9 | 10106.7 |
| 67.5° | 851.3  | 848.9  | 931.2   | 1267.8  | 1931.5  | 2639.9  | 9397.0  | 14111.3 | 14404.3 | 12260.9 | 10306.5 |
| 70°   | 730.2  | 733.8  | 830.8   | 928.9   | 1451.9  | 1494.3  | 4671.8  | 12286.4 | 12911.2 | 12338.4 | 10294.4 |
| 72.5° | 543.8  | 555.9  | 645.4   | 846.4   | 1095.9  | 1028.1  | 1613.0  | 9110.0  | 10239.9 | 11625.2 | 9760.4  |
| 75°   | 383.9  | 389.9  | 454.1   | 712.1   | 817.4   | 748.4   | 823.5   | 4709.5  | 6157.7  | 8912.7  | 7988.6  |
| 77.5° | 295.5  | 306.4  | 343.9   | 497.7   | 805.2   | 525.5   | 503.8   | 1630.0  | 2504.3  | 5383.9  | 5477.2  |
| 80°   | 159.8  | 179.3  | 248.3   | 359.7   | 565.5   | 371.8   | 249.5   | 649.0   | 848.9   | 2517.6  | 2111.9  |
| 82.5° | 82.3   | 92.0   | 173.1   | 259.1   | 322.2   | 324.5   | 123.5   | 270.1   | 349.9   | 777.5   | 289.5   |
| 85°   | 32.7   | 40.0   | 116.2   | 142.9   | 165.9   | 159.8   | 55.7    | 109.0   | 126.0   | 215.6   | 88.4    |
| 87.5° | 7.3    | 12.1   | 42.3    | 32.7    | 31.5    | 33.9    | 13.3    | 25.4    | 24.2    | 25.4    | 15.8    |
| 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°    | 2172.5 | 2172.5 | 2172.5 | 2172.5 | 2172.5 | 2172.5 | 2172.5 | 2172.5 | 2172.5 | 2172.5 | 2172.5 |
| 2.5°  | 2185.8 | 2180.9 | 2167.6 | 2153.1 | 2136.1 | 2126.5 | 2120.4 | 2119.2 | 2110.7 | 2104.6 | 2110.7 |
| 5°    | 2222.1 | 2217.3 | 2191.9 | 2161.5 | 2128.8 | 2103.4 | 2079.2 | 2057.4 | 2025.9 | 2019.9 | 2017.5 |
| 7.5°  | 2294.8 | 2281.4 | 2240.2 | 2199.1 | 2137.3 | 2063.4 | 1973.8 | 1870.9 | 1778.9 | 1751.0 | 1737.7 |
| 10°   | 2384.4 | 2366.2 | 2314.1 | 2241.5 | 2104.6 | 1903.6 | 1686.8 | 1485.8 | 1326.0 | 1281.1 | 1264.2 |
| 12.5° | 2486.1 | 2470.4 | 2401.4 | 2266.9 | 1967.8 | 1603.3 | 1271.5 | 1022.0 | 867.0  | 828.3  | 817.4  |
| 15°   | 2607.2 | 2584.2 | 2488.5 | 2228.1 | 1723.2 | 1218.2 | 873.1  | 725.4  | 669.6  | 662.4  | 655.1  |
| 17.5° | 2735.5 | 2698.0 | 2566.0 | 2089.0 | 1393.8 | 865.8  | 674.6  | 632.1  | 607.9  | 600.6  | 597.0  |
| 20°   | 2853.0 | 2804.6 | 2612.0 | 1878.2 | 1041.4 | 674.6  | 604.2  | 576.5  | 554.6  | 546.1  | 541.3  |
| 22.5° | 2970.4 | 2901.5 | 2612.0 | 1591.2 | 781.0  | 598.2  | 554.6  | 529.2  | 503.8  | 492.8  | 486.8  |
| 25°   | 3092.8 | 3000.8 | 2566.0 | 1271.5 | 628.5  | 548.6  | 507.4  | 479.5  | 457.8  | 444.4  | 439.6  |
| 27.5° | 3211.4 | 3084.3 | 2460.7 | 968.7  | 559.4  | 505.0  | 463.8  | 437.2  | 416.6  | 406.9  | 406.9  |
| 30°   | 3324.1 | 3166.6 | 2312.9 | 735.0  | 514.7  | 462.6  | 423.8  | 400.9  | 380.3  | 370.5  | 371.8  |
| 32.5° | 3476.7 | 3270.8 | 2155.5 | 603.0  | 475.9  | 422.6  | 387.6  | 365.7  | 347.6  | 340.3  | 340.3  |
| 35°   | 3688.6 | 3424.6 | 2019.9 | 592.1  | 443.2  | 389.9  | 354.9  | 334.3  | 316.1  | 310.0  | 310.0  |
| 37.5° | 3988.9 | 3672.9 | 1948.4 | 664.8  | 416.6  | 360.9  | 328.2  | 306.4  | 289.5  | 284.5  | 283.4  |
| 40°   | 4359.4 | 4009.5 | 1987.2 | 737.5  | 398.4  | 335.5  | 303.9  | 282.2  | 267.6  | 261.6  | 260.3  |
| 42.5° | 4799.0 | 4424.8 | 2201.5 | 793.1  | 386.3  | 313.6  | 281.0  | 256.8  | 247.0  | 244.6  | 244.6  |
| 45°   | 5304.0 | 4881.4 | 2529.7 | 852.5  | 367.0  | 293.0  | 257.9  | 239.7  | 232.5  | 231.3  | 230.1  |
| 47.5° | 5878.0 | 5382.7 | 2910.0 | 926.4  | 347.6  | 273.7  | 239.7  | 227.7  | 221.6  | 219.1  | 219.1  |
| 50°   | 6447.1 | 5887.7 | 3301.1 | 967.6  | 331.8  | 255.5  | 225.2  | 215.6  | 210.7  | 209.5  | 209.5  |
| 52.5° | 7043.0 | 6407.2 | 3617.1 | 928.9  | 318.5  | 241.0  | 213.1  | 205.8  | 201.0  | 199.8  | 199.8  |
| 55°   | 7610.8 | 6827.4 | 3671.7 | 788.3  | 291.8  | 226.4  | 199.8  | 196.2  | 190.1  | 190.1  | 188.9  |
| 57.5° | 8100.1 | 7038.1 | 3286.6 | 578.8  | 265.2  | 204.7  | 186.4  | 182.9  | 178.0  | 176.8  | 175.6  |
| 60°   | 8549.3 | 6977.6 | 2537.0 | 389.9  | 236.2  | 182.9  | 169.5  | 167.1  | 162.3  | 156.2  | 155.0  |
| 62.5° | 8802.5 | 6711.1 | 1735.3 | 254.3  | 207.0  | 159.8  | 150.2  | 148.9  | 138.1  | 126.0  | 123.5  |
| 65°   | 8898.1 | 6163.7 | 1082.6 | 185.3  | 173.1  | 136.8  | 129.6  | 127.1  | 111.4  | 98.1   | 96.9   |
| 67.5° | 8814.6 | 5262.9 | 546.1  | 146.6  | 136.8  | 113.9  | 106.6  | 106.6  | 95.6   | 83.5   | 82.3   |
| 70°   | 8480.3 | 3945.3 | 230.1  | 117.5  | 105.4  | 87.2   | 87.2   | 92.0   | 81.2   | 67.9   | 66.6   |
| 72.5° | 7754.9 | 2654.4 | 122.3  | 89.6   | 78.7   | 61.8   | 71.4   | 75.0   | 64.2   | 50.8   | 50.8   |
| 75°   | 6165.0 | 1619.1 | 84.8   | 66.6   | 49.6   | 43.6   | 54.5   | 56.9   | 43.6   | 33.9   | 32.7   |
| 77.5° | 4216.5 | 930.0  | 56.9   | 42.3   | 31.5   | 25.4   | 37.5   | 35.2   | 23.0   | 15.8   | 16.9   |
| 80°   | 1851.6 | 387.6  | 32.7   | 19.4   | 12.1   | 9.7    | 13.3   | 9.7    | 7.3    | 4.8    | 4.8    |
| 82.5° | 216.8  | 90.8   | 12.1   | 7.3    | 4.8    | 2.5    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 44.8   | 10.9   | 6.0    | 2.5    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 8.5    | 2.5    | 1.2    | 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)