

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: P963939

Luminaire Tested: **NAV-SB3B-722-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P963939  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3B-722-U-SL3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13982 lumens  
Efficiency: N/A  
Efficacy: 128.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

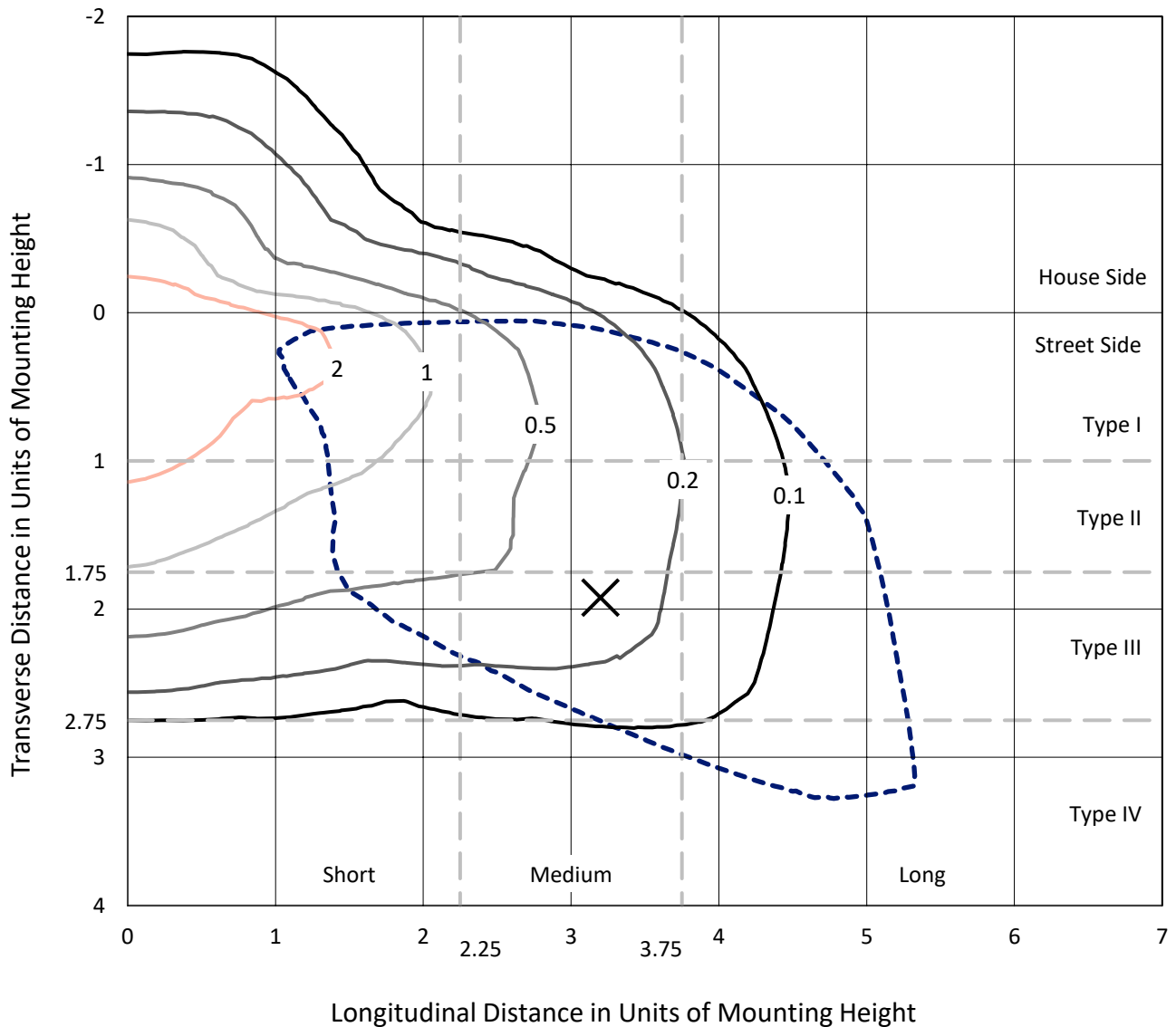
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

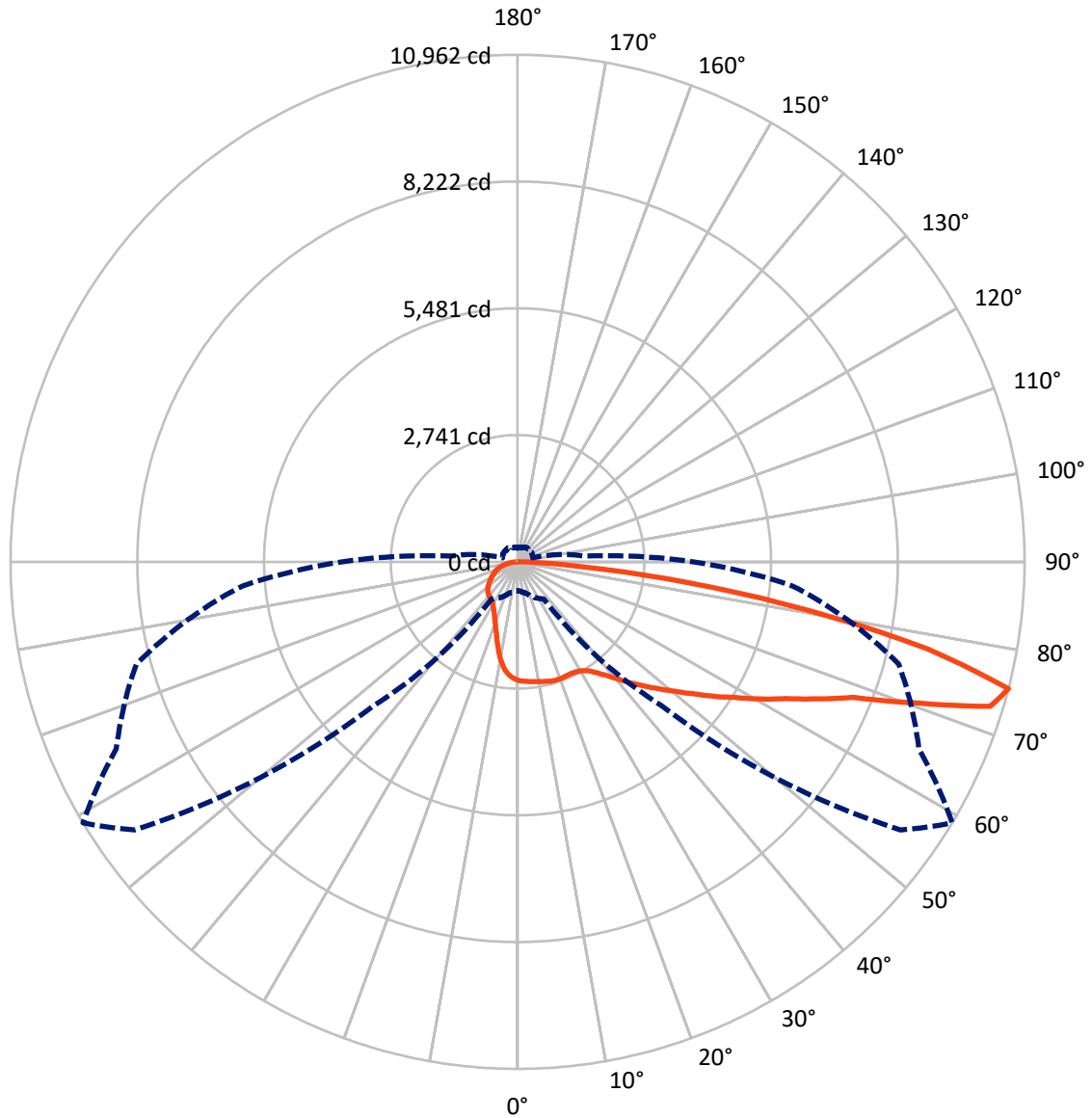
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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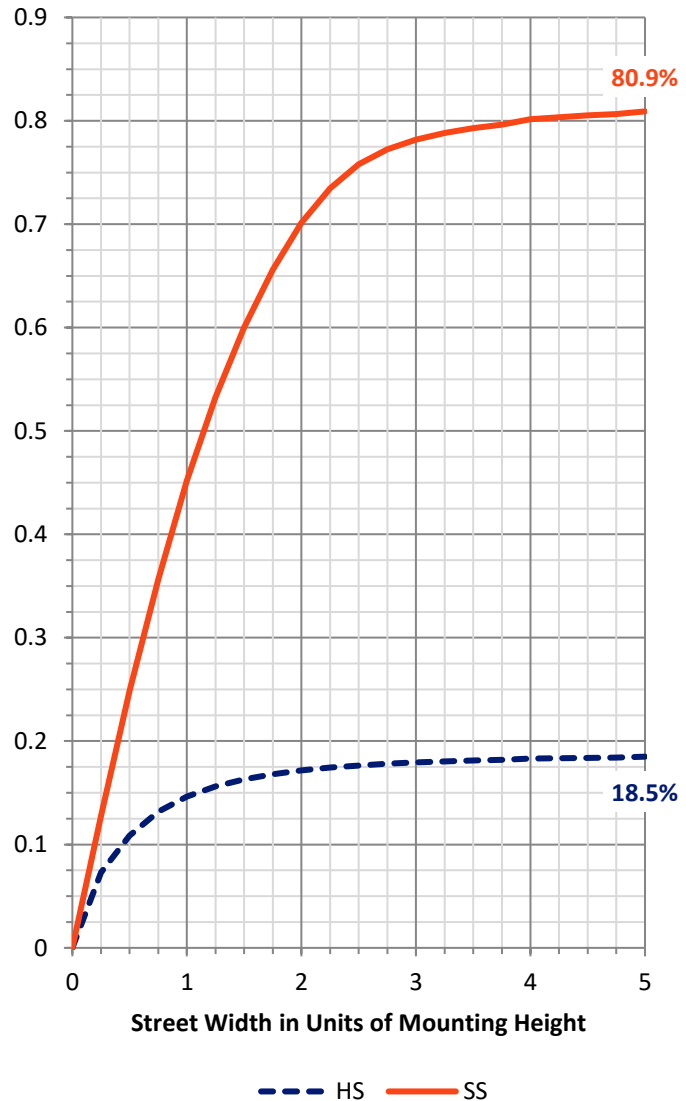
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2622.4   | 0.0    | 2622.4  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 11359.6  | 0.0    | 11359.6 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 13982.0  | 0.0    | 13982.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 230.1   | 1.6       |
| 10°-20°   | 588.2   | 4.2       |
| 20°-30°   | 893.4   | 6.4       |
| 30°-40°   | 1328.0  | 9.5       |
| 40°-50°   | 1975.0  | 14.1      |
| 50°-60°   | 2680.9  | 19.2      |
| 60°-70°   | 3272.9  | 23.4      |
| 70°-80°   | 2568.5  | 18.4      |
| 80°-90°   | 444.9   | 3.2       |
| 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°    | 13982.0 | 100.0     |
| 0°-180°   | 13982.0 | 100.0     |

**Coefficient of Utilization**

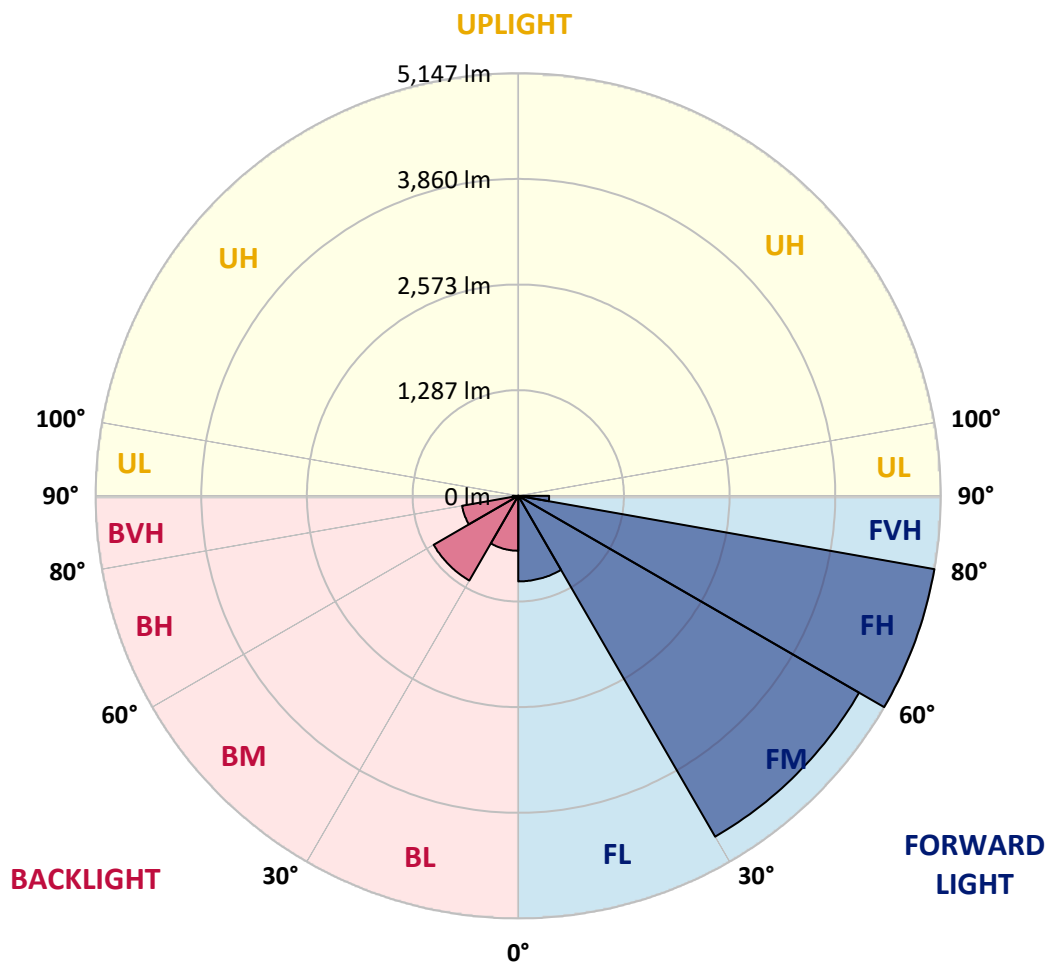


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1042.5 | 7.5       |                         |      |         |
| FM (30°-60°)   | 4793.6 | 34.3      |                         |      |         |
| FH (60°-80°)   | 5146.6 | 36.8      |                         |      | G3/7500 |
| FVH (80°-90°)  | 376.8  | 2.7       |                         |      | G3/500  |
| BL (0°-30°)    | 669.2  | 4.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 1190.3 | 8.5       | B2/2500                 |      |         |
| BH (60°-80°)   | 694.8  | 5.0       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 68.1   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**  
 Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 59°     | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|
| 0°    | 2566.4 | 2566.4 | 2566.4 | 2566.4 | 2566.4 | 2566.4 | 2566.4  | 2566.4  | 2566.4 | 2566.4 | 2566.4 |
| 2.5°  | 2588.2 | 2579.1 | 2588.2 | 2584.4 | 2582.9 | 2579.9 | 2580.6  | 2586.0  | 2582.9 | 2586.7 | 2573.9 |
| 5°    | 2570.9 | 2565.6 | 2574.6 | 2572.3 | 2582.2 | 2583.7 | 2593.5  | 2599.5  | 2603.2 | 2604.0 | 2594.2 |
| 7.5°  | 2542.3 | 2537.1 | 2549.8 | 2560.3 | 2581.5 | 2587.4 | 2607.7  | 2617.5  | 2622.8 | 2631.8 | 2617.5 |
| 10°   | 2437.8 | 2435.5 | 2467.1 | 2506.9 | 2556.6 | 2587.4 | 2618.3  | 2634.9  | 2643.1 | 2667.2 | 2650.6 |
| 12.5° | 2252.7 | 2255.7 | 2297.1 | 2373.8 | 2473.1 | 2572.3 | 2630.3  | 2654.3  | 2667.2 | 2697.3 | 2689.7 |
| 15°   | 2075.9 | 2075.2 | 2120.3 | 2202.3 | 2341.5 | 2506.2 | 2636.3  | 2677.7  | 2699.5 | 2743.9 | 2737.9 |
| 17.5° | 1973.6 | 1970.7 | 2002.2 | 2064.7 | 2194.0 | 2404.6 | 2621.2  | 2690.5  | 2737.2 | 2792.8 | 2787.5 |
| 20°   | 1954.9 | 1948.8 | 1965.4 | 1996.2 | 2088.0 | 2293.3 | 2582.2  | 2690.5  | 2767.2 | 2839.4 | 2836.4 |
| 22.5° | 2023.4 | 2013.5 | 2006.7 | 2003.0 | 2043.6 | 2201.6 | 2537.8  | 2681.4  | 2811.6 | 2906.4 | 2901.1 |
| 25°   | 2160.9 | 2145.9 | 2111.3 | 2077.5 | 2065.5 | 2160.2 | 2498.6  | 2679.1  | 2877.8 | 2996.6 | 2977.0 |
| 27.5° | 2383.6 | 2364.8 | 2294.9 | 2213.6 | 2140.6 | 2181.3 | 2481.4  | 2692.8  | 2950.8 | 3092.1 | 3053.1 |
| 30°   | 2659.7 | 2639.4 | 2551.3 | 2426.5 | 2295.6 | 2259.5 | 2503.2  | 2732.5  | 3043.9 | 3219.2 | 3142.5 |
| 32.5° | 2907.1 | 2884.6 | 2809.3 | 2682.2 | 2505.4 | 2394.9 | 2572.3  | 2808.6  | 3190.6 | 3396.0 | 3277.1 |
| 35°   | 3126.8 | 3100.4 | 3032.7 | 2915.4 | 2762.7 | 2585.2 | 2697.3  | 2943.2  | 3399.0 | 3683.3 | 3459.9 |
| 37.5° | 3341.8 | 3311.1 | 3237.3 | 3113.2 | 3006.4 | 2838.6 | 2869.5  | 3116.2  | 3675.9 | 4032.3 | 3702.1 |
| 40°   | 3582.6 | 3538.2 | 3448.6 | 3326.0 | 3222.3 | 3135.8 | 3095.9  | 3328.3  | 3957.1 | 4422.0 | 4004.5 |
| 42.5° | 3815.7 | 3773.5 | 3666.7 | 3562.2 | 3432.1 | 3407.3 | 3358.4  | 3576.5  | 4264.7 | 4849.9 | 4311.4 |
| 45°   | 4066.9 | 4016.6 | 3887.2 | 3754.8 | 3672.8 | 3587.8 | 3612.6  | 3824.7  | 4566.4 | 5286.1 | 4633.3 |
| 47.5° | 4302.3 | 4246.0 | 4093.2 | 3945.8 | 3900.7 | 3739.7 | 3845.8  | 4097.7  | 4880.0 | 5728.4 | 4952.2 |
| 50°   | 4429.4 | 4373.8 | 4246.7 | 4113.5 | 4078.2 | 3927.0 | 4098.6  | 4397.9  | 5208.7 | 6169.2 | 5258.4 |
| 52.5° | 4535.5 | 4475.4 | 4309.1 | 4235.4 | 4224.8 | 4130.9 | 4410.0  | 4740.8  | 5537.4 | 6558.9 | 5554.0 |
| 55°   | 4648.4 | 4581.4 | 4369.3 | 4303.2 | 4351.2 | 4359.5 | 4779.3  | 5129.7  | 5884.9 | 6938.6 | 5833.0 |
| 57.5° | 4778.4 | 4693.5 | 4427.2 | 4360.2 | 4474.6 | 4627.3 | 5203.4  | 5532.8  | 6226.4 | 7290.7 | 6081.2 |
| 60°   | 4901.0 | 4815.3 | 4538.5 | 4451.3 | 4607.7 | 4937.9 | 5690.1  | 6021.1  | 6613.0 | 7604.4 | 6315.8 |
| 62.5° | 4925.1 | 4854.4 | 4627.3 | 4626.5 | 4788.3 | 5300.5 | 6266.2  | 6513.7  | 6950.7 | 7914.2 | 6526.5 |
| 65°   | 4508.5 | 4464.1 | 4329.4 | 4619.8 | 5047.0 | 5822.5 | 6907.9  | 7144.0  | 7380.2 | 8185.0 | 6711.5 |
| 67.5° | 3431.4 | 3437.3 | 3427.6 | 3988.0 | 4837.9 | 6572.4 | 7836.7  | 7818.7  | 7910.4 | 8488.8 | 6924.4 |
| 70°   | 1569.0 | 1604.3 | 1834.5 | 2752.9 | 3875.8 | 6658.9 | 9372.7  | 9138.7  | 8576.2 | 8882.2 | 7108.7 |
| 72.5° | 847.7  | 874.7  | 968.8  | 1333.6 | 2330.2 | 5920.3 | 10520.5 | 10686.6 | 9461.5 | 9147.0 | 6906.3 |
| 75°   | 622.1  | 637.0  | 702.5  | 847.7  | 978.6  | 4400.1 | 10109.1 | 10962.0 | 9572.0 | 8529.5 | 5963.9 |
| 77.5° | 465.6  | 472.3  | 525.7  | 671.7  | 500.9  | 2319.7 | 8077.4  | 9078.5  | 8194.1 | 7007.8 | 4405.4 |
| 80°   | 337.7  | 345.2  | 385.1  | 504.0  | 351.3  | 848.4  | 5546.4  | 6372.3  | 5611.9 | 4467.1 | 2195.5 |
| 82.5° | 233.2  | 236.2  | 253.5  | 343.0  | 245.2  | 329.4  | 3147.1  | 3736.7  | 3132.7 | 1567.5 | 592.7  |
| 85°   | 140.6  | 144.4  | 151.9  | 200.1  | 139.2  | 156.4  | 1358.4  | 1405.1  | 936.4  | 374.5  | 184.3  |
| 87.5° | 57.9   | 61.7   | 67.6   | 84.3   | 54.9   | 43.7   | 224.2   | 281.3   | 175.3  | 109.8  | 57.2   |
| 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°    | 2566.4 | 2566.4 | 2566.4 | 2566.4 | 2566.4 | 2566.4 | 2566.4 | 2566.4 | 2566.4 | 2566.4 | 2566.4 |
| 2.5°  | 2570.1 | 2564.9 | 2550.6 | 2531.0 | 2513.0 | 2490.4 | 2480.6 | 2472.3 | 2464.8 | 2450.6 | 2443.8 |
| 5°    | 2586.0 | 2571.6 | 2533.3 | 2483.7 | 2427.2 | 2365.5 | 2305.3 | 2264.0 | 2228.7 | 2202.3 | 2180.5 |
| 7.5°  | 2610.0 | 2582.9 | 2513.0 | 2411.4 | 2282.1 | 2149.6 | 2030.1 | 1945.0 | 1881.2 | 1857.8 | 1817.2 |
| 10°   | 2634.9 | 2602.5 | 2480.6 | 2301.6 | 2078.2 | 1874.4 | 1715.6 | 1628.4 | 1577.3 | 1560.8 | 1535.1 |
| 12.5° | 2664.2 | 2616.7 | 2430.3 | 2148.9 | 1850.3 | 1626.9 | 1488.5 | 1437.4 | 1411.0 | 1402.0 | 1404.2 |
| 15°   | 2707.0 | 2628.8 | 2354.2 | 1957.9 | 1632.9 | 1446.4 | 1356.9 | 1321.5 | 1308.0 | 1307.3 | 1310.3 |
| 17.5° | 2739.4 | 2631.1 | 2236.1 | 1753.3 | 1466.0 | 1337.3 | 1263.6 | 1250.1 | 1259.1 | 1272.6 | 1278.0 |
| 20°   | 2775.5 | 2610.8 | 2081.3 | 1566.7 | 1348.6 | 1241.8 | 1210.9 | 1220.0 | 1241.8 | 1261.4 | 1268.1 |
| 22.5° | 2801.0 | 2573.9 | 1893.9 | 1421.6 | 1247.1 | 1186.9 | 1185.4 | 1204.2 | 1216.3 | 1226.0 | 1231.3 |
| 25°   | 2823.6 | 2511.5 | 1695.4 | 1299.7 | 1163.6 | 1153.8 | 1170.3 | 1164.3 | 1156.1 | 1164.3 | 1169.6 |
| 27.5° | 2840.2 | 2413.0 | 1517.8 | 1192.9 | 1104.9 | 1131.3 | 1121.5 | 1107.9 | 1107.2 | 1111.7 | 1119.2 |
| 30°   | 2834.8 | 2281.3 | 1372.0 | 1091.4 | 1063.5 | 1089.2 | 1065.8 | 1063.5 | 1061.3 | 1063.5 | 1071.8 |
| 32.5° | 2834.8 | 2131.6 | 1259.8 | 1021.4 | 1037.2 | 1027.5 | 1025.2 | 1020.0 | 1010.9 | 1010.1 | 1020.0 |
| 35°   | 2850.7 | 1981.9 | 1163.6 | 983.8  | 1015.4 | 992.1  | 993.6  | 980.8  | 962.0  | 952.9  | 962.0  |
| 37.5° | 2883.0 | 1861.6 | 1068.0 | 965.8  | 977.0  | 976.3  | 970.3  | 948.4  | 915.4  | 886.8  | 896.6  |
| 40°   | 2961.2 | 1826.2 | 1002.7 | 957.5  | 959.0  | 968.0  | 952.2  | 910.1  | 834.9  | 788.2  | 794.3  |
| 42.5° | 3083.8 | 1885.7 | 988.3  | 937.2  | 947.0  | 956.0  | 925.2  | 827.4  | 774.0  | 746.1  | 746.1  |
| 45°   | 3239.5 | 1989.4 | 1019.2 | 907.8  | 918.4  | 934.2  | 842.4  | 795.8  | 771.7  | 772.4  | 776.2  |
| 47.5° | 3436.6 | 2098.5 | 1076.4 | 882.3  | 877.0  | 886.0  | 787.5  | 758.9  | 725.8  | 734.1  | 755.1  |
| 50°   | 3664.5 | 2209.1 | 1130.5 | 847.7  | 831.2  | 801.8  | 752.1  | 725.1  | 683.0  | 663.4  | 668.7  |
| 52.5° | 3911.2 | 2315.9 | 1152.3 | 805.5  | 781.5  | 747.6  | 728.1  | 694.9  | 643.8  | 611.5  | 610.8  |
| 55°   | 4145.2 | 2413.0 | 1128.2 | 755.1  | 731.8  | 705.5  | 702.5  | 682.2  | 627.3  | 582.2  | 582.2  |
| 57.5° | 4366.3 | 2494.1 | 1068.0 | 704.1  | 681.4  | 665.6  | 685.9  | 676.2  | 607.0  | 549.1  | 546.0  |
| 60°   | 4553.6 | 2549.8 | 980.8  | 652.1  | 636.3  | 628.0  | 658.9  | 655.9  | 578.4  | 513.7  | 511.5  |
| 62.5° | 4702.5 | 2571.6 | 884.6  | 602.5  | 598.7  | 583.6  | 621.3  | 621.3  | 542.3  | 479.1  | 476.8  |
| 65°   | 4819.0 | 2550.6 | 786.8  | 553.6  | 561.1  | 538.5  | 575.4  | 570.9  | 504.0  | 448.3  | 445.3  |
| 67.5° | 4922.2 | 2481.4 | 678.4  | 505.4  | 522.8  | 494.2  | 527.3  | 516.7  | 461.9  | 417.5  | 414.4  |
| 70°   | 4968.0 | 2320.4 | 555.1  | 457.4  | 478.4  | 450.6  | 479.1  | 459.6  | 414.4  | 384.4  | 378.3  |
| 72.5° | 4599.5 | 1928.5 | 437.0  | 406.9  | 425.0  | 402.4  | 427.2  | 404.7  | 363.3  | 349.7  | 338.5  |
| 75°   | 3805.2 | 1447.2 | 336.2  | 352.0  | 365.5  | 348.3  | 364.8  | 348.3  | 310.7  | 320.4  | 292.6  |
| 77.5° | 2763.4 | 977.0  | 257.3  | 294.1  | 300.1  | 291.1  | 305.3  | 286.6  | 252.8  | 250.5  | 239.2  |
| 80°   | 1374.2 | 572.4  | 201.6  | 232.4  | 230.1  | 224.2  | 240.7  | 231.6  | 203.1  | 215.1  | 212.9  |
| 82.5° | 397.9  | 245.2  | 146.7  | 163.2  | 158.7  | 160.2  | 172.2  | 176.7  | 264.8  | 262.5  | 268.5  |
| 85°   | 124.8  | 96.2   | 88.0   | 91.0   | 86.5   | 88.8   | 101.6  | 201.6  | 186.5  | 109.1  | 118.1  |
| 87.5° | 32.4   | 33.1   | 21.8   | 23.3   | 24.1   | 28.6   | 32.4   | 122.6  | 58.6   | 38.3   | 40.6   |
| 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)