

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: P969775

Luminaire Tested: **NAV-SB6A-727-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969775  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-727-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

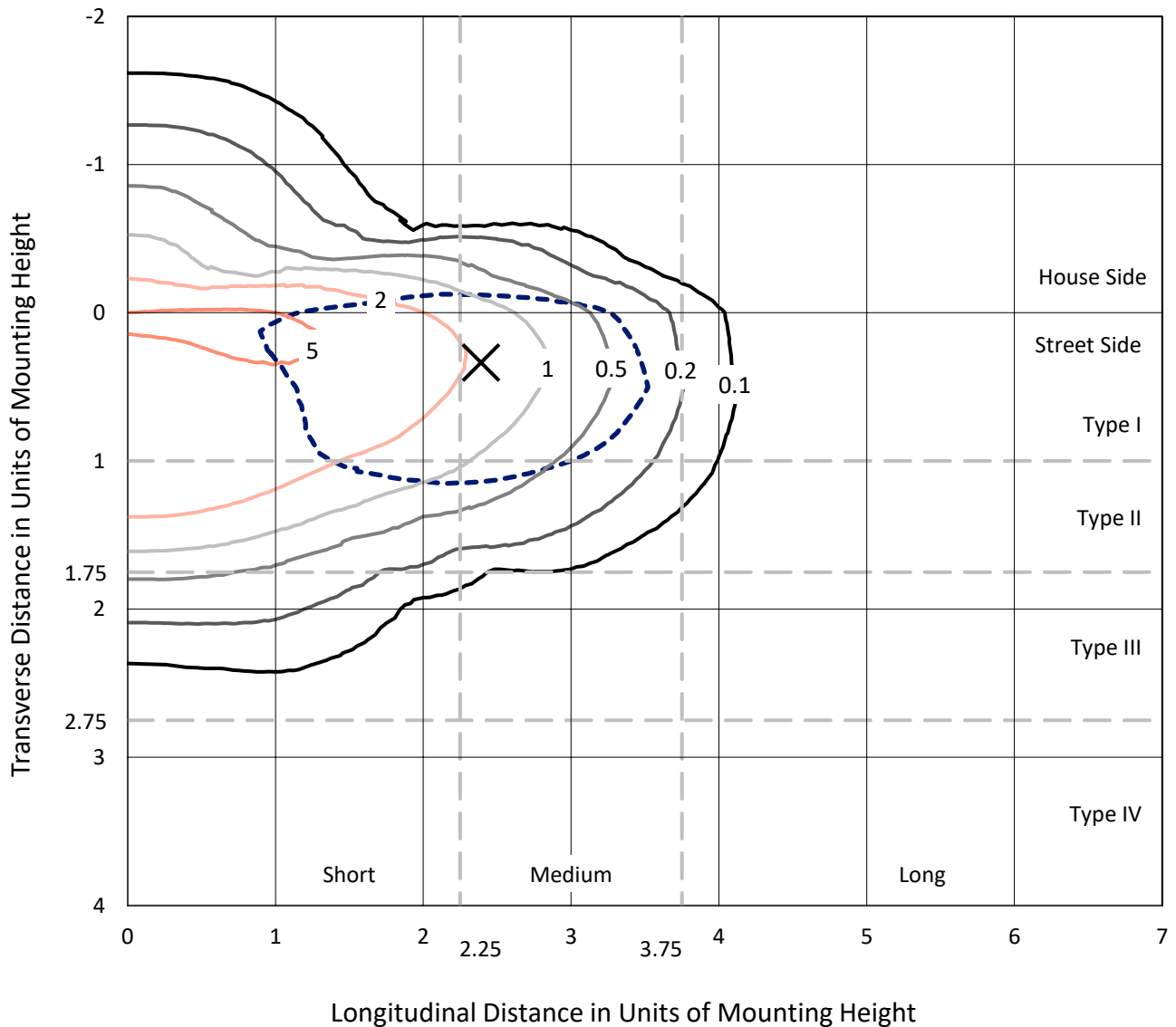
Lumens per Lamp: N/A  
Luminaire Lumens: 18884.6 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): 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

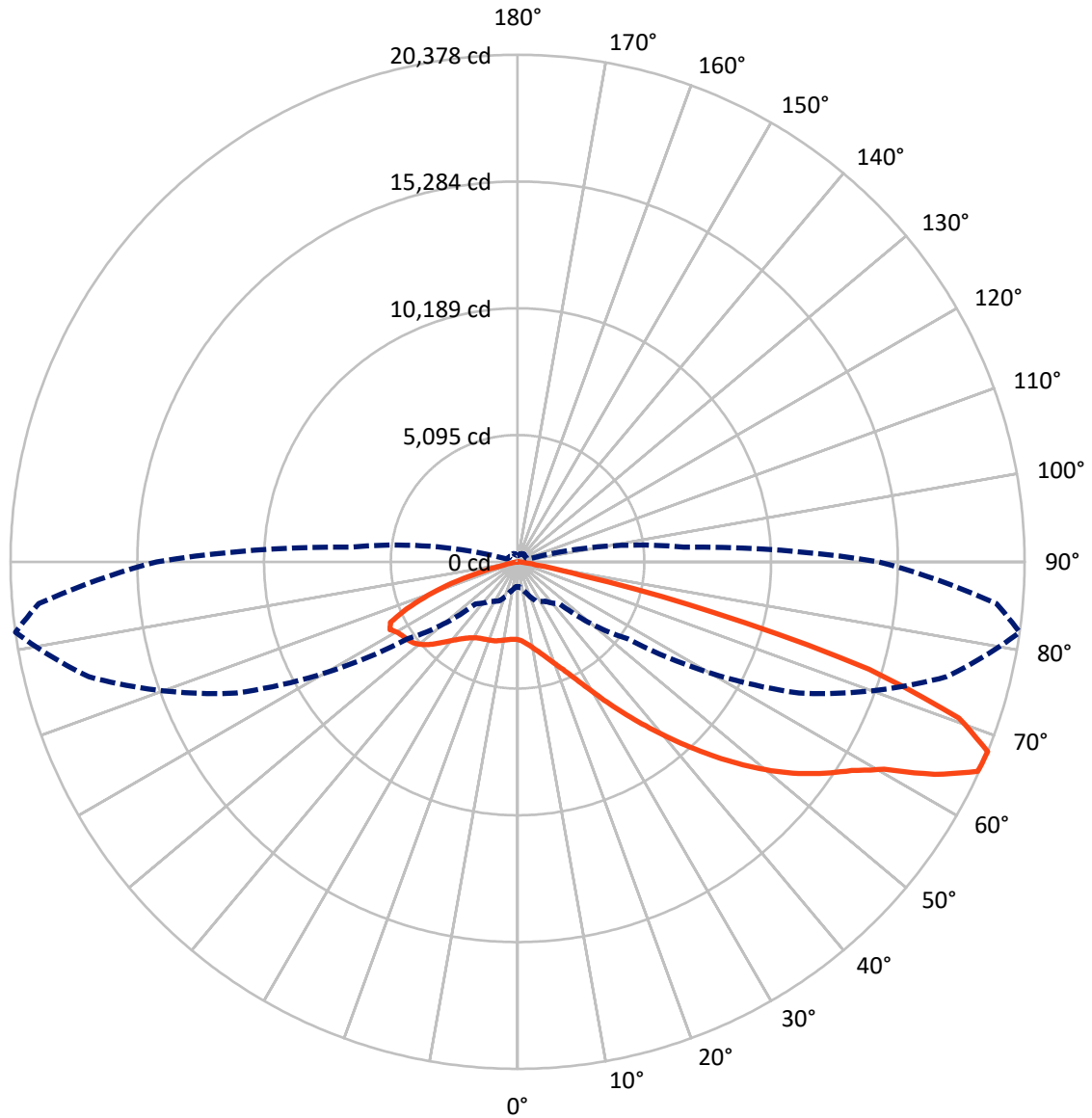
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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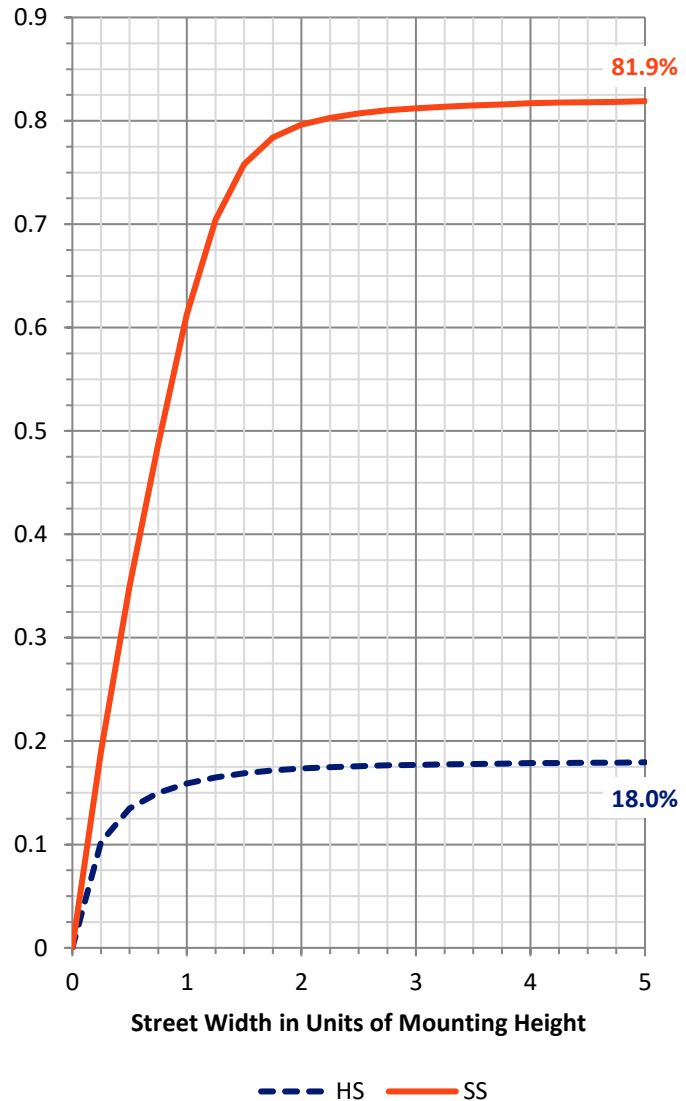
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3420.8   | 0.0    | 3420.8  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 15463.8  | 0.0    | 15463.8 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 18884.6  | 0.0    | 18884.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 278.7   | 1.5       |
| 10°-20°   | 724.3   | 3.8       |
| 20°-30°   | 1160.1  | 6.1       |
| 30°-40°   | 2051.4  | 10.9      |
| 40°-50°   | 3594.3  | 19.0      |
| 50°-60°   | 4793.8  | 25.4      |
| 60°-70°   | 4462.8  | 23.6      |
| 70°-80°   | 1712.8  | 9.1       |
| 80°-90°   | 106.4   | 0.6       |
| 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°    | 18884.6 | 100.0     |
| 0°-180°   | 18884.6 | 100.0     |

**Coefficient of Utilization**

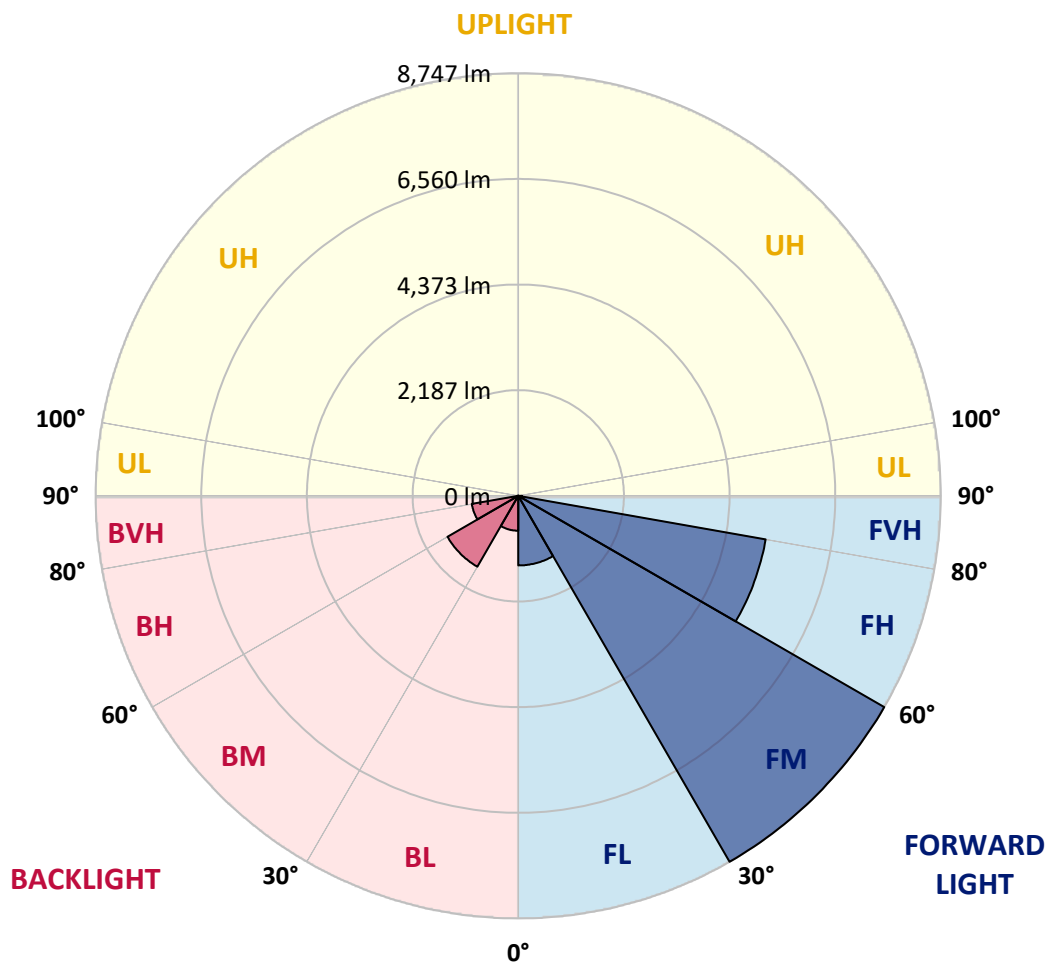


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1440.7 | 7.6       |                         |      |         |
| FM (30°-60°)   | 8746.6 | 46.3      |                         |      |         |
| FH (60°-80°)   | 5199.2 | 27.5      |                         |      | G3/7500 |
| FVH (80°-90°)  | 77.3   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 722.5  | 3.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 1692.9 | 9.0       | B2/2500                 |      |         |
| BH (60°-80°)   | 976.4  | 5.2       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 29.0   | 0.2       |                         |      | 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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 75°     | 82°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 3128.5 | 3128.5 | 3128.5 | 3128.5 | 3128.5 | 3128.5 | 3128.5  | 3128.5  | 3128.5  | 3128.5  | 3128.5  |
| 2.5°  | 3306.6 | 3325.7 | 3314.8 | 3309.4 | 3299.9 | 3286.3 | 3275.4  | 3241.4  | 3206.0  | 3182.9  | 3174.7  |
| 5°    | 3373.3 | 3392.3 | 3390.9 | 3396.4 | 3403.2 | 3407.3 | 3404.5  | 3366.5  | 3316.2  | 3276.7  | 3253.7  |
| 7.5°  | 3316.2 | 3337.9 | 3355.6 | 3382.8 | 3430.4 | 3480.7 | 3505.2  | 3497.0  | 3445.3  | 3390.9  | 3362.4  |
| 10°   | 3154.3 | 3177.5 | 3219.6 | 3283.6 | 3384.1 | 3492.9 | 3584.0  | 3626.1  | 3593.5  | 3533.7  | 3494.3  |
| 12.5° | 2858.0 | 2881.1 | 2964.0 | 3102.7 | 3271.3 | 3460.3 | 3634.3  | 3747.2  | 3755.3  | 3695.5  | 3649.3  |
| 15°   | 2524.9 | 2547.9 | 2636.3 | 2810.3 | 3067.3 | 3370.5 | 3661.5  | 3875.0  | 3947.1  | 3895.4  | 3839.6  |
| 17.5° | 2318.2 | 2338.5 | 2405.2 | 2545.3 | 2813.1 | 3191.1 | 3652.0  | 4010.9  | 4175.4  | 4134.6  | 4068.0  |
| 20°   | 2255.6 | 2273.3 | 2304.6 | 2402.5 | 2625.4 | 3004.8 | 3589.4  | 4138.7  | 4421.5  | 4398.5  | 4323.7  |
| 22.5° | 2322.2 | 2338.5 | 2348.1 | 2391.6 | 2531.6 | 2882.4 | 3510.6  | 4269.3  | 4707.1  | 4709.8  | 4618.8  |
| 25°   | 2475.9 | 2492.2 | 2481.3 | 2508.6 | 2569.7 | 2844.4 | 3480.7  | 4422.9  | 5066.1  | 5096.0  | 4992.6  |
| 27.5° | 2728.8 | 2730.2 | 2704.4 | 2702.9 | 2712.5 | 2901.5 | 3512.0  | 4587.4  | 5518.8  | 5574.6  | 5446.7  |
| 30°   | 3235.9 | 3215.5 | 3116.3 | 3008.9 | 2959.9 | 3072.7 | 3599.0  | 4781.8  | 6053.1  | 6152.4  | 5991.9  |
| 32.5° | 4017.8 | 3987.9 | 3805.6 | 3548.7 | 3290.4 | 3348.8 | 3755.3  | 5003.5  | 6635.0  | 6814.5  | 6618.7  |
| 35°   | 4866.2 | 4858.0 | 4667.6 | 4285.6 | 3834.2 | 3741.8 | 4009.6  | 5294.4  | 7270.0  | 7555.6  | 7323.0  |
| 37.5° | 5654.7 | 5650.7 | 5541.9 | 5091.9 | 4542.6 | 4289.6 | 4417.4  | 5675.1  | 7949.8  | 8363.2  | 8088.5  |
| 40°   | 6375.4 | 6387.6 | 6278.8 | 5876.4 | 5323.0 | 4992.6 | 4972.2  | 6145.6  | 8705.8  | 9242.8  | 8916.6  |
| 42.5° | 6998.1 | 7011.7 | 6901.5 | 6603.8 | 6093.9 | 5770.3 | 5653.4  | 6722.1  | 9444.0  | 10187.8 | 9801.7  |
| 45°   | 7420.9 | 7505.3 | 7489.0 | 7251.0 | 6885.2 | 6549.4 | 6472.0  | 7445.4  | 10285.7 | 11189.8 | 10737.1 |
| 47.5° | 7540.6 | 7618.1 | 7740.5 | 7773.1 | 7550.2 | 7219.7 | 7312.1  | 8317.0  | 11136.8 | 12193.3 | 11677.9 |
| 50°   | 7245.5 | 7317.6 | 7571.9 | 7910.4 | 8065.4 | 7963.4 | 8129.3  | 9251.0  | 12008.4 | 13194.0 | 12601.1 |
| 52.5° | 6663.6 | 6737.0 | 7057.9 | 7593.6 | 8225.8 | 8546.8 | 8949.2  | 10171.5 | 12852.7 | 14141.6 | 13475.5 |
| 55°   | 5822.0 | 5899.5 | 6311.4 | 6917.8 | 7920.0 | 8787.3 | 9633.1  | 11090.6 | 13626.4 | 14994.1 | 14264.0 |
| 57.5° | 4677.2 | 4734.3 | 5162.5 | 6011.0 | 7150.4 | 8548.1 | 10137.5 | 12094.1 | 14355.1 | 15831.6 | 15045.8 |
| 60°   | 3048.4 | 3098.7 | 3596.2 | 4542.6 | 5875.0 | 7748.6 | 10238.1 | 13213.0 | 15323.1 | 16920.8 | 16099.6 |
| 62.5° | 2027.2 | 2061.2 | 2356.3 | 3051.0 | 4137.4 | 6213.5 | 9649.3  | 14106.3 | 16742.7 | 18816.1 | 17906.5 |
| 65°   | 1390.9 | 1425.0 | 1720.0 | 2204.0 | 2673.1 | 4110.2 | 7956.7  | 13988.0 | 18028.8 | 20321.2 | 19245.7 |
| 67.5° | 992.5  | 1021.1 | 1271.3 | 1728.2 | 1934.8 | 2387.5 | 5393.8  | 12476.1 | 17843.9 | 20378.3 | 19317.8 |
| 70°   | 711.0  | 727.4  | 934.1  | 1346.0 | 1537.8 | 1434.4 | 2999.4  | 9541.9  | 15623.7 | 18817.5 | 17846.7 |
| 72.5° | 497.6  | 503.1  | 648.5  | 1025.2 | 1238.6 | 1046.9 | 1427.6  | 6361.8  | 11816.6 | 14769.8 | 13835.8 |
| 75°   | 337.2  | 344.0  | 436.4  | 751.8  | 993.9  | 799.5  | 755.9   | 3411.3  | 6936.9  | 8175.5  | 7328.4  |
| 77.5° | 206.6  | 209.4  | 281.5  | 513.9  | 743.7  | 609.2  | 486.8   | 1445.2  | 2684.0  | 2635.0  | 2246.1  |
| 80°   | 117.0  | 117.0  | 179.5  | 319.5  | 507.2  | 393.0  | 341.2   | 614.6   | 849.8   | 746.4   | 658.0   |
| 82.5° | 65.3   | 66.6   | 130.5  | 198.5  | 335.8  | 232.5  | 187.7   | 284.1   | 367.1   | 324.9   | 282.8   |
| 85°   | 27.2   | 29.9   | 80.3   | 93.8   | 160.4  | 115.6  | 76.2    | 119.6   | 135.9   | 121.1   | 88.4    |
| 87.5° | 2.8    | 4.1    | 24.5   | 17.6   | 19.1   | 23.2   | 10.9    | 23.2    | 19.1    | 19.1    | 13.6    |
| 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°    | 3128.5  | 3128.5 | 3128.5 | 3128.5 | 3128.5 | 3128.5 | 3128.5 | 3128.5 | 3128.5 | 3128.5 | 3128.5 |
| 2.5°  | 3148.9  | 3128.5 | 3076.8 | 3017.1 | 2938.2 | 2900.1 | 2848.5 | 2813.1 | 2783.2 | 2786.0 | 2758.7 |
| 5°    | 3210.1  | 3158.4 | 3042.9 | 2898.8 | 2719.3 | 2591.5 | 2455.5 | 2361.7 | 2285.5 | 2269.2 | 2232.6 |
| 7.5°  | 3294.5  | 3212.9 | 3010.2 | 2750.6 | 2447.4 | 2217.6 | 2012.3 | 1880.4 | 1786.6 | 1756.6 | 1726.7 |
| 10°   | 3403.2  | 3284.9 | 2968.1 | 2564.2 | 2127.8 | 1835.5 | 1615.3 | 1511.9 | 1448.0 | 1426.3 | 1410.0 |
| 12.5° | 3529.6  | 3367.8 | 2912.3 | 2337.2 | 1798.8 | 1517.4 | 1377.3 | 1325.6 | 1305.2 | 1298.5 | 1294.4 |
| 15°   | 3688.7  | 3471.2 | 2828.1 | 2068.0 | 1520.1 | 1323.0 | 1263.1 | 1256.3 | 1259.0 | 1256.3 | 1254.9 |
| 17.5° | 3877.7  | 3584.0 | 2690.7 | 1790.7 | 1332.5 | 1223.6 | 1201.9 | 1207.3 | 1214.1 | 1212.8 | 1210.1 |
| 20°   | 4084.3  | 3695.5 | 2515.4 | 1544.6 | 1204.7 | 1153.0 | 1140.7 | 1146.2 | 1151.6 | 1148.9 | 1147.6 |
| 22.5° | 4319.6  | 3815.2 | 2320.9 | 1352.8 | 1119.0 | 1087.7 | 1074.1 | 1075.4 | 1075.4 | 1070.0 | 1067.3 |
| 25°   | 4601.0  | 3947.1 | 2116.9 | 1216.9 | 1053.7 | 1029.2 | 1012.9 | 1007.5 | 999.4  | 983.0  | 980.3  |
| 27.5° | 4936.9  | 4087.1 | 1921.2 | 1121.7 | 1002.0 | 979.0  | 959.9  | 946.3  | 925.9  | 898.7  | 896.1  |
| 30°   | 5314.8  | 4257.0 | 1755.3 | 1061.9 | 961.2  | 938.2  | 916.4  | 896.1  | 866.1  | 832.1  | 829.4  |
| 32.5° | 5759.5  | 4439.3 | 1634.3 | 1022.4 | 924.6  | 900.1  | 874.2  | 849.8  | 817.1  | 783.2  | 784.5  |
| 35°   | 6289.7  | 4659.5 | 1563.6 | 995.3  | 896.1  | 863.4  | 834.9  | 807.6  | 783.2  | 753.3  | 750.5  |
| 37.5° | 6864.8  | 4893.3 | 1541.8 | 981.6  | 877.0  | 826.7  | 794.1  | 775.0  | 772.2  | 754.6  | 753.3  |
| 40°   | 7494.4  | 5170.7 | 1558.1 | 973.5  | 856.6  | 791.3  | 755.9  | 751.8  | 758.7  | 727.4  | 728.8  |
| 42.5° | 8160.5  | 5499.7 | 1585.4 | 964.0  | 828.0  | 755.9  | 722.0  | 722.0  | 716.6  | 673.0  | 673.0  |
| 45°   | 8881.2  | 5879.1 | 1612.5 | 940.8  | 794.1  | 720.6  | 694.7  | 685.2  | 662.2  | 620.0  | 618.6  |
| 47.5° | 9607.2  | 6265.2 | 1632.9 | 898.7  | 753.3  | 690.7  | 667.6  | 645.9  | 611.8  | 573.8  | 572.4  |
| 50°   | 10296.5 | 6612.0 | 1611.2 | 836.2  | 707.0  | 662.2  | 637.7  | 607.7  | 571.0  | 545.2  | 541.1  |
| 52.5° | 10912.5 | 6912.4 | 1518.7 | 762.8  | 658.0  | 632.2  | 610.5  | 579.2  | 549.3  | 522.1  | 519.4  |
| 55°   | 11448.2 | 7155.8 | 1355.6 | 693.4  | 614.6  | 606.4  | 584.7  | 545.2  | 504.4  | 481.3  | 478.6  |
| 57.5° | 11962.2 | 7340.7 | 1151.6 | 636.3  | 575.1  | 577.9  | 545.2  | 509.8  | 471.8  | 447.3  | 444.6  |
| 60°   | 12646.0 | 7588.2 | 944.9  | 583.3  | 533.0  | 541.1  | 505.8  | 479.9  | 432.3  | 401.1  | 397.0  |
| 62.5° | 13739.2 | 7973.0 | 750.5  | 518.0  | 484.0  | 486.8  | 471.8  | 440.5  | 383.5  | 346.8  | 344.0  |
| 65°   | 14606.7 | 7831.5 | 591.4  | 447.3  | 428.2  | 432.3  | 432.3  | 398.4  | 337.2  | 295.0  | 291.0  |
| 67.5° | 14508.8 | 6705.8 | 471.8  | 378.0  | 375.3  | 378.0  | 387.4  | 359.0  | 299.1  | 265.2  | 259.7  |
| 70°   | 13365.3 | 5333.9 | 378.0  | 314.1  | 326.4  | 319.5  | 346.8  | 327.7  | 269.2  | 235.2  | 231.1  |
| 72.5° | 10905.7 | 3842.3 | 288.2  | 259.7  | 250.2  | 261.1  | 312.7  | 295.0  | 224.4  | 186.2  | 182.1  |
| 75°   | 6372.6  | 2050.3 | 214.8  | 205.3  | 180.8  | 217.5  | 277.4  | 251.5  | 171.3  | 137.4  | 133.2  |
| 77.5° | 2074.8  | 715.1  | 157.7  | 150.9  | 134.6  | 175.4  | 236.6  | 212.1  | 140.0  | 108.8  | 104.7  |
| 80°   | 556.1   | 216.2  | 107.4  | 99.2   | 87.0   | 130.5  | 187.7  | 168.6  | 100.7  | 70.7   | 69.4   |
| 82.5° | 222.9   | 91.1   | 62.5   | 55.8   | 47.6   | 89.7   | 148.2  | 135.9  | 74.8   | 44.9   | 44.9   |
| 85°   | 72.1    | 29.9   | 23.2   | 17.6   | 21.7   | 55.8   | 88.4   | 92.5   | 53.0   | 23.2   | 17.6   |
| 87.5° | 9.5     | 4.1    | 4.1    | 5.4    | 4.1    | 9.5    | 27.2   | 25.8   | 15.0   | 2.8    | 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)