

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: P967693

Luminaire Tested: **NAV-SB5A-730-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967693  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5A-730-U-SLL-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

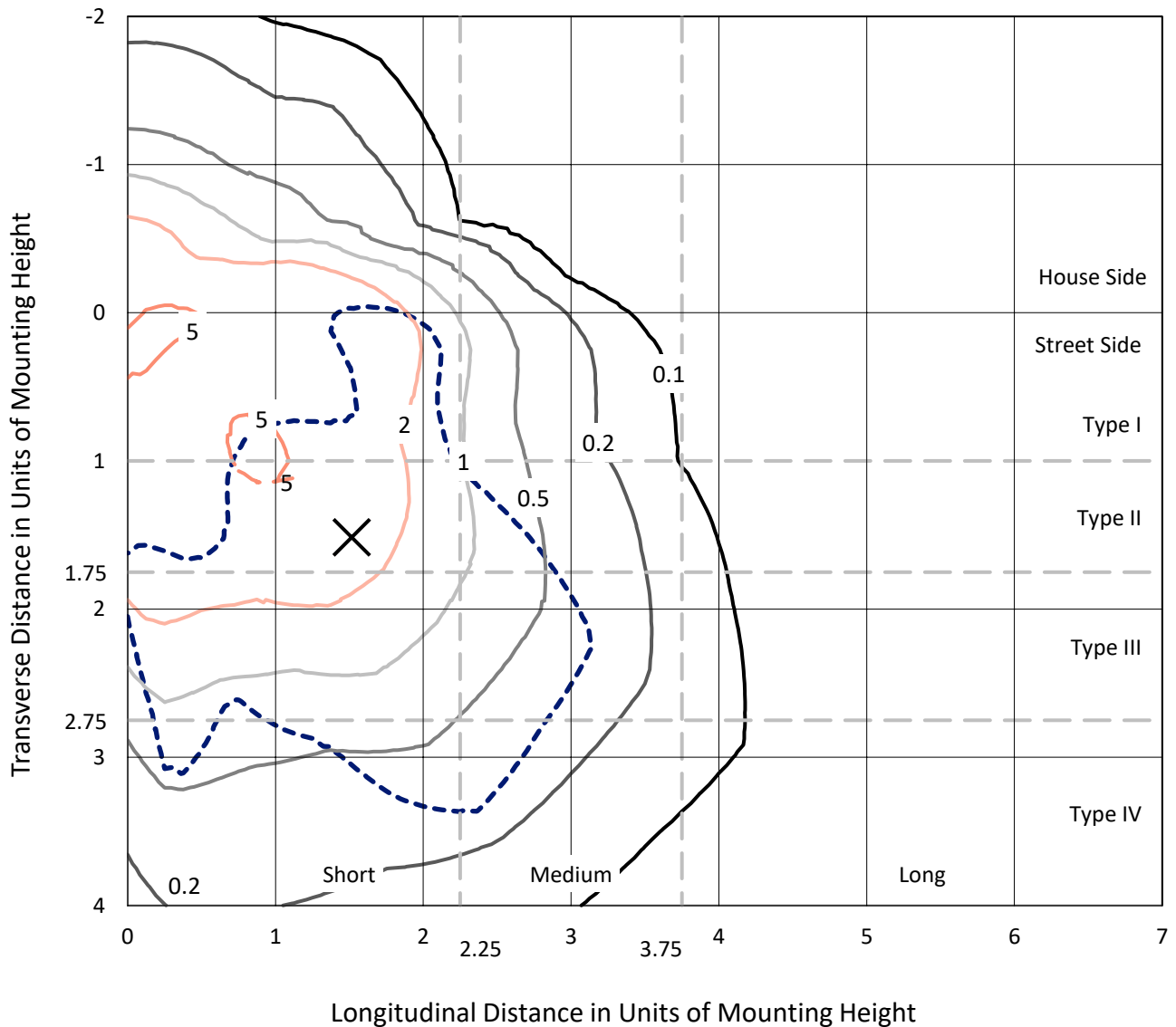
Lumens per Lamp: N/A  
Luminaire Lumens: 17726.4 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): 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

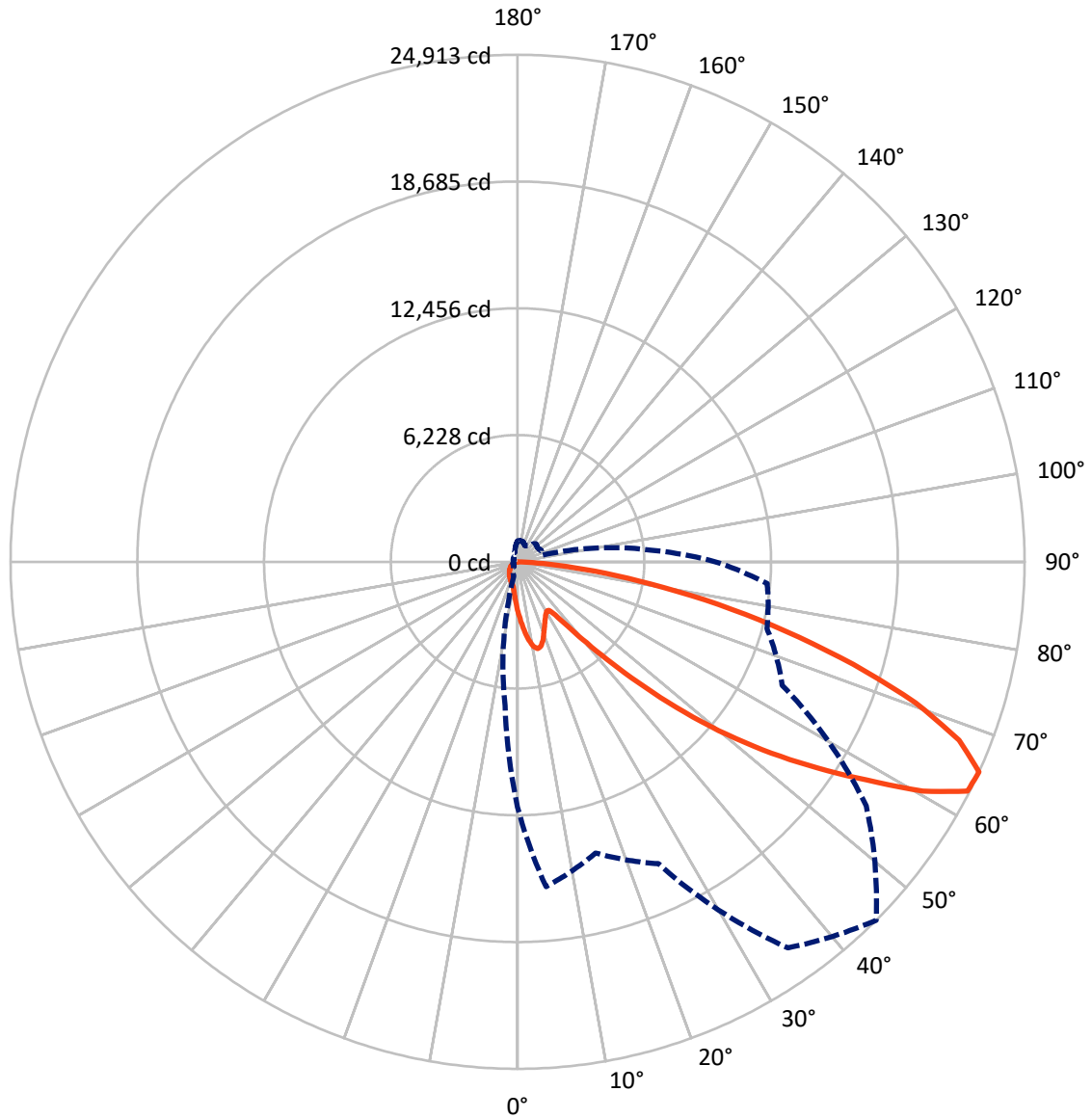
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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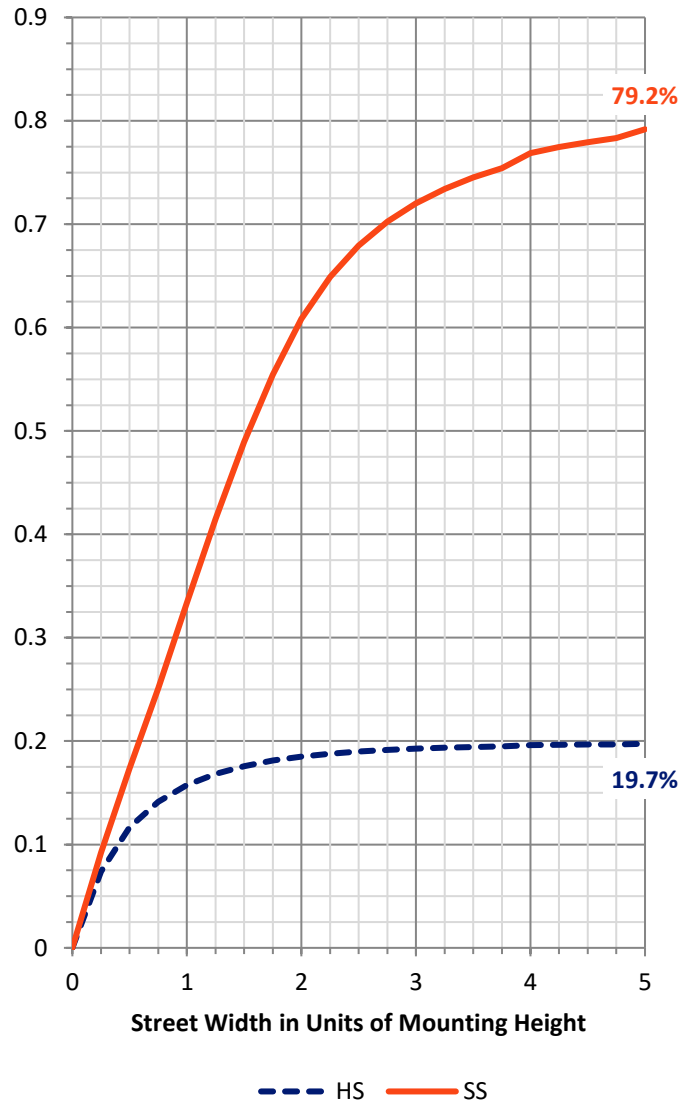
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3523.5   | 0.0    | 3523.5  |
|                    | % Fixture | 19.9     | 0.0    | 19.9    |
| <b>Street Side</b> | Lumens    | 14202.9  | 0.0    | 14202.9 |
|                    | % Fixture | 80.1     | 0.0    | 80.1    |
| <b>Total</b>       | Lumens    | 17726.4  | 0.0    | 17726.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 241.7   | 1.4       |
| 10°-20°   | 724.4   | 4.1       |
| 20°-30°   | 1067.2  | 6.0       |
| 30°-40°   | 1371.1  | 7.7       |
| 40°-50°   | 2217.4  | 12.5      |
| 50°-60°   | 3888.5  | 21.9      |
| 60°-70°   | 4865.6  | 27.4      |
| 70°-80°   | 2843.2  | 16.0      |
| 80°-90°   | 507.3   | 2.9       |
| 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°    | 17726.4 | 100.0     |
| 0°-180°   | 17726.4 | 100.0     |

**Coefficient of Utilization**



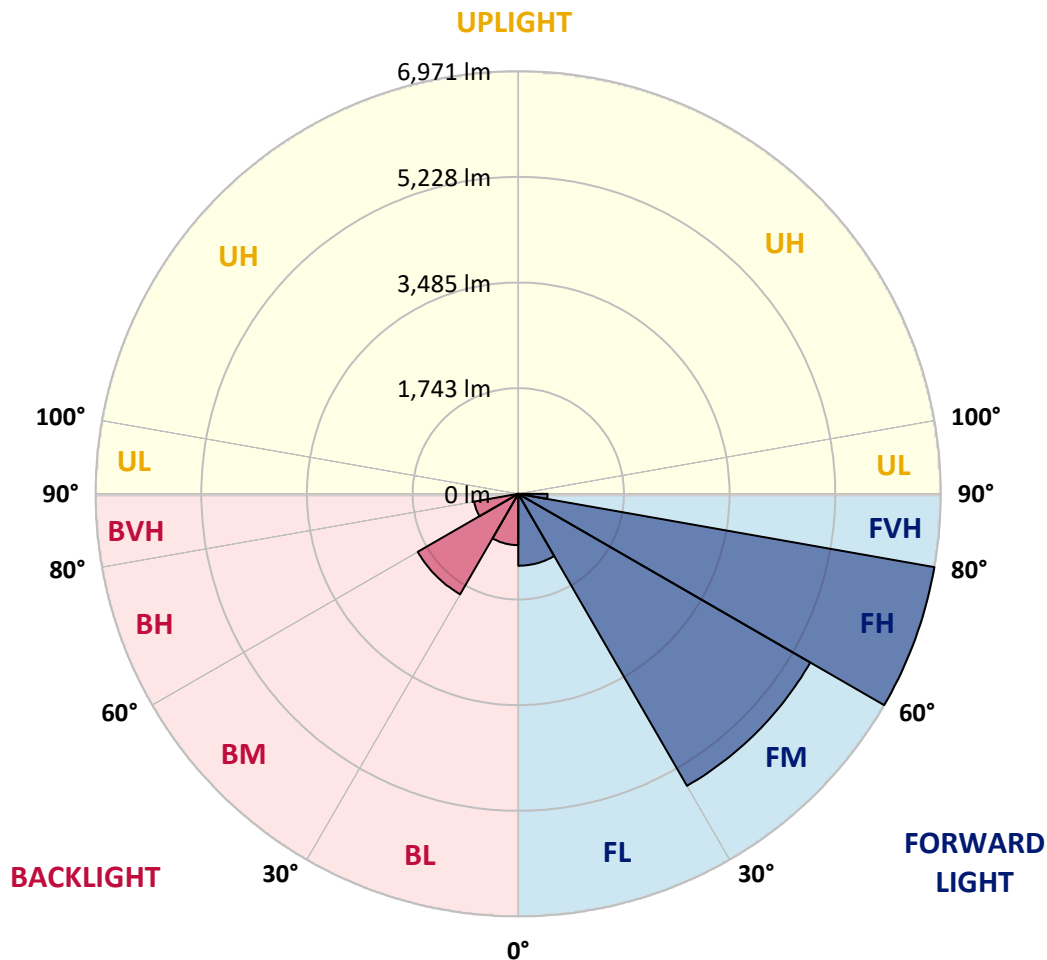
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1186.1 | 6.7       |                         |      |         |
| FM (30°-60°)   | 5562.7 | 31.4      |                         |      |         |
| FH (60°-80°)   | 6970.5 | 39.3      |                         |      | G3/7500 |
| FVH (80°-90°)  | 483.5  | 2.7       |                         |      | G3/500  |
| BL (0°-30°)    | 847.2  | 4.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 1914.3 | 10.8      | B2/2500                 |      |         |
| BH (60°-80°)   | 738.2  | 4.2       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 23.8   | 0.1       |                         |      | 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 Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2454.6  | 2454.6  | 2454.6  | 2454.6  | 2454.6  | 2454.6  | 2454.6  | 2454.6  | 2454.6  | 2454.6  | 2454.6  |
| 2.5°  | 2750.1  | 2770.8  | 2817.2  | 2841.6  | 2879.5  | 2881.9  | 2881.9  | 2849.0  | 2847.8  | 2780.6  | 2773.2  |
| 5°    | 3073.7  | 3122.5  | 3232.4  | 3346.0  | 3370.4  | 3376.6  | 3364.3  | 3298.3  | 3249.6  | 3118.9  | 3090.8  |
| 7.5°  | 3394.8  | 3488.9  | 3656.2  | 3807.6  | 3856.5  | 3856.5  | 3827.1  | 3719.6  | 3619.5  | 3430.3  | 3359.4  |
| 10°   | 3661.0  | 3779.5  | 4006.6  | 4176.4  | 4232.5  | 4220.3  | 4160.5  | 4025.0  | 3886.9  | 3657.4  | 3564.5  |
| 12.5° | 3836.9  | 3970.0  | 4219.1  | 4355.8  | 4413.2  | 4381.6  | 4313.1  | 4181.3  | 4035.9  | 3794.1  | 3689.1  |
| 15°   | 3924.8  | 4064.0  | 4280.2  | 4352.3  | 4336.4  | 4303.4  | 4294.9  | 4231.3  | 4121.4  | 3895.5  | 3780.7  |
| 17.5° | 3962.6  | 4092.1  | 4242.3  | 4197.2  | 4062.8  | 4037.2  | 4122.7  | 4203.2  | 4176.4  | 3983.5  | 3875.9  |
| 20°   | 3998.1  | 4106.8  | 4152.0  | 3951.7  | 3717.2  | 3694.0  | 3857.7  | 4087.2  | 4204.4  | 4065.3  | 3966.3  |
| 22.5° | 4046.9  | 4114.0  | 4021.3  | 3692.8  | 3440.0  | 3386.3  | 3567.0  | 3912.6  | 4213.0  | 4169.1  | 4070.2  |
| 25°   | 4114.0  | 4132.4  | 3877.2  | 3447.4  | 3193.3  | 3139.6  | 3308.1  | 3718.4  | 4198.4  | 4281.4  | 4197.2  |
| 27.5° | 4194.7  | 4156.8  | 3739.2  | 3242.2  | 2996.7  | 2946.7  | 3115.2  | 3531.6  | 4156.8  | 4393.8  | 4333.9  |
| 30°   | 4299.7  | 4188.6  | 3602.5  | 3083.4  | 2856.3  | 2819.7  | 2982.0  | 3370.4  | 4105.5  | 4536.6  | 4503.6  |
| 32.5° | 4406.0  | 4202.0  | 3475.5  | 2990.6  | 2824.6  | 2838.0  | 2971.1  | 3283.7  | 4049.4  | 4673.4  | 4689.3  |
| 35°   | 4520.8  | 4244.7  | 3413.1  | 3082.2  | 3089.6  | 3206.8  | 3261.8  | 3364.3  | 4040.9  | 4859.0  | 4921.2  |
| 37.5° | 4677.1  | 4340.1  | 3487.7  | 3537.7  | 3791.7  | 4034.7  | 3989.5  | 3758.8  | 4139.8  | 5136.2  | 5252.2  |
| 40°   | 4901.8  | 4507.3  | 3812.5  | 4313.1  | 4834.6  | 5229.0  | 5056.8  | 4475.6  | 4442.6  | 5535.5  | 5708.9  |
| 42.5° | 5229.0  | 4773.5  | 4388.8  | 5260.7  | 6144.9  | 6794.5  | 6333.0  | 5400.0  | 4972.6  | 6105.8  | 6326.8  |
| 45°   | 5712.6  | 5204.5  | 5086.2  | 6260.9  | 7760.5  | 8783.8  | 7823.9  | 6385.4  | 5715.0  | 6969.2  | 7142.6  |
| 47.5° | 6383.0  | 5838.4  | 5739.5  | 7314.7  | 9724.1  | 11047.9 | 9477.5  | 7298.9  | 6560.1  | 8146.4  | 8186.7  |
| 50°   | 7273.2  | 6691.9  | 6358.6  | 8467.5  | 11877.0 | 13355.9 | 11129.7 | 8180.5  | 7528.4  | 9584.9  | 9538.4  |
| 52.5° | 8447.9  | 7882.6  | 7080.3  | 9565.3  | 14091.0 | 15615.0 | 12789.2 | 8954.8  | 8730.0  | 11254.2 | 11159.0 |
| 55°   | 10050.1 | 9674.1  | 8067.0  | 10613.1 | 16303.8 | 17887.6 | 14384.0 | 9685.0  | 10317.5 | 13237.4 | 12661.0 |
| 57.5° | 12038.2 | 12306.9 | 9489.7  | 11828.2 | 18293.0 | 20229.7 | 15986.2 | 10705.9 | 12378.9 | 15455.1 | 13532.9 |
| 60°   | 13320.4 | 15808.0 | 12214.0 | 13624.5 | 20553.3 | 22878.4 | 18181.9 | 12647.6 | 14545.3 | 16249.9 | 13366.8 |
| 62.5° | 13010.2 | 16921.6 | 15477.0 | 15917.8 | 22631.8 | 24804.2 | 20333.5 | 14597.7 | 14953.1 | 15078.9 | 12087.0 |
| 65°   | 12058.9 | 16022.8 | 14811.5 | 16363.5 | 23158.1 | 24912.9 | 20908.7 | 14346.2 | 12684.2 | 12310.6 | 9715.6  |
| 67.5° | 10749.9 | 14956.8 | 13230.1 | 15181.5 | 22206.8 | 23393.8 | 19837.7 | 12690.3 | 9802.3  | 9238.1  | 7048.5  |
| 70°   | 9337.0  | 13777.1 | 12192.1 | 13855.3 | 20393.4 | 20746.3 | 18017.0 | 11161.4 | 7209.7  | 6238.9  | 4523.2  |
| 72.5° | 7996.1  | 12548.7 | 11481.3 | 12496.1 | 17974.3 | 17244.0 | 15646.7 | 9809.6  | 5249.7  | 4500.0  | 3215.3  |
| 75°   | 6624.8  | 10736.5 | 10469.0 | 10881.8 | 14793.1 | 13583.0 | 13000.5 | 8121.9  | 4120.2  | 3255.6  | 2218.8  |
| 77.5° | 5111.8  | 8389.4  | 9004.8  | 8714.2  | 10412.9 | 10089.2 | 10077.0 | 6103.4  | 3010.1  | 2172.5  | 1390.9  |
| 80°   | 3498.6  | 5846.9  | 7035.1  | 6147.3  | 6757.9  | 6593.0  | 7589.5  | 4094.6  | 2183.5  | 1307.9  | 774.2   |
| 82.5° | 2056.5  | 3559.7  | 4896.8  | 2976.0  | 3736.7  | 3835.7  | 4519.5  | 1991.7  | 1284.6  | 301.7   | 168.5   |
| 85°   | 834.0   | 1405.6  | 1914.8  | 1165.0  | 1802.5  | 1520.4  | 1715.7  | 559.3   | 357.8   | 7.3     | 0.0     |
| 87.5° | 210.0   | 449.4   | 315.1   | 130.7   | 208.8   | 191.7   | 151.4   | 68.4    | 14.7    | 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     |

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**CANDELA DISTRIBUTION (continued):**

|       | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2454.6  | 2454.6 | 2454.6 | 2454.6 | 2454.6 | 2454.6 | 2454.6 | 2454.6 | 2454.6 | 2454.6 | 2454.6 |
| 2.5°  | 2725.7  | 2697.5 | 2627.9 | 2558.3 | 2502.1 | 2426.5 | 2376.4 | 2316.5 | 2259.1 | 2207.8 | 2198.1 |
| 5°    | 3013.8  | 2921.0 | 2794.0 | 2678.0 | 2559.5 | 2444.7 | 2331.2 | 2211.5 | 2101.7 | 2034.4 | 1991.7 |
| 7.5°  | 3248.3  | 3084.6 | 2916.1 | 2768.3 | 2625.5 | 2491.2 | 2341.0 | 2195.7 | 2023.5 | 1931.9 | 1848.8 |
| 10°   | 3422.9  | 3207.9 | 2987.0 | 2817.2 | 2673.1 | 2542.4 | 2415.4 | 2268.9 | 2061.3 | 1946.6 | 1821.9 |
| 12.5° | 3537.7  | 3282.5 | 3023.5 | 2829.4 | 2668.3 | 2566.9 | 2510.7 | 2453.3 | 2246.9 | 2112.6 | 1931.9 |
| 15°   | 3617.1  | 3334.9 | 3049.3 | 2801.3 | 2603.5 | 2529.0 | 2585.2 | 2651.2 | 2519.2 | 2364.2 | 2128.5 |
| 17.5° | 3703.7  | 3403.4 | 3060.2 | 2725.7 | 2477.7 | 2446.0 | 2591.3 | 2743.9 | 2737.9 | 2584.0 | 2353.2 |
| 20°   | 3795.4  | 3463.2 | 3052.9 | 2603.5 | 2325.1 | 2353.2 | 2538.8 | 2715.8 | 2790.4 | 2707.3 | 2502.1 |
| 22.5° | 3889.4  | 3520.6 | 3024.8 | 2444.7 | 2182.2 | 2270.2 | 2455.8 | 2610.9 | 2698.7 | 2673.1 | 2516.8 |
| 25°   | 4007.9  | 3601.2 | 2983.3 | 2273.8 | 2063.7 | 2185.9 | 2359.2 | 2485.1 | 2546.1 | 2544.9 | 2437.4 |
| 27.5° | 4149.5  | 3708.7 | 2961.3 | 2135.8 | 1979.5 | 2090.6 | 2244.4 | 2356.9 | 2399.6 | 2399.6 | 2314.1 |
| 30°   | 4314.3  | 3835.7 | 2936.9 | 2045.5 | 1930.7 | 1991.7 | 2111.4 | 2221.3 | 2264.0 | 2264.0 | 2192.0 |
| 32.5° | 4497.5  | 3957.7 | 2878.3 | 1990.4 | 1894.0 | 1895.2 | 1971.0 | 2071.1 | 2122.4 | 2129.7 | 2078.4 |
| 35°   | 4717.4  | 4088.4 | 2750.1 | 1946.6 | 1851.3 | 1801.2 | 1837.8 | 1920.8 | 1981.9 | 1997.8 | 1966.1 |
| 37.5° | 5005.5  | 4248.4 | 2566.9 | 1881.8 | 1785.3 | 1702.3 | 1710.8 | 1774.4 | 1841.5 | 1865.9 | 1845.2 |
| 40°   | 5392.6  | 4436.5 | 2376.4 | 1789.0 | 1692.5 | 1593.6 | 1590.0 | 1636.3 | 1702.3 | 1729.2 | 1718.2 |
| 42.5° | 5904.3  | 4662.4 | 2194.4 | 1699.9 | 1580.1 | 1478.9 | 1472.7 | 1509.3 | 1566.7 | 1594.8 | 1590.0 |
| 45°   | 6558.9  | 4939.6 | 2038.1 | 1630.3 | 1470.3 | 1370.1 | 1367.7 | 1398.2 | 1448.3 | 1477.6 | 1471.5 |
| 47.5° | 7468.7  | 5216.8 | 1931.9 | 1593.6 | 1383.5 | 1281.0 | 1285.9 | 1312.7 | 1357.9 | 1378.7 | 1370.1 |
| 50°   | 8654.4  | 5301.1 | 1878.1 | 1593.6 | 1337.2 | 1201.6 | 1226.0 | 1248.0 | 1282.2 | 1294.5 | 1283.4 |
| 52.5° | 9792.4  | 5022.6 | 1829.3 | 1603.4 | 1343.3 | 1134.5 | 1186.9 | 1202.8 | 1232.2 | 1237.1 | 1221.2 |
| 55°   | 10350.6 | 4318.0 | 1762.2 | 1605.9 | 1381.1 | 1077.1 | 1155.2 | 1184.5 | 1195.6 | 1194.3 | 1167.5 |
| 57.5° | 10158.9 | 3491.3 | 1648.6 | 1596.0 | 1406.8 | 1040.5 | 1116.1 | 1172.3 | 1179.7 | 1168.6 | 1118.6 |
| 60°   | 9486.0  | 2570.5 | 1561.9 | 1524.0 | 1397.0 | 1029.4 | 1056.3 | 1145.4 | 1156.4 | 1141.7 | 1060.0 |
| 62.5° | 8357.6  | 1784.1 | 1494.7 | 1365.3 | 1354.2 | 1025.8 | 962.3  | 1086.8 | 1113.7 | 1093.0 | 973.2  |
| 65°   | 6579.6  | 1260.2 | 1287.1 | 1196.7 | 1261.5 | 1006.2 | 864.6  | 1016.0 | 1052.7 | 1020.9 | 852.4  |
| 67.5° | 4452.4  | 909.8  | 1042.8 | 1084.3 | 1111.3 | 962.3  | 793.8  | 935.4  | 984.2  | 942.7  | 712.0  |
| 70°   | 2404.4  | 638.7  | 688.7  | 913.4  | 943.9  | 886.5  | 730.2  | 853.6  | 909.8  | 864.6  | 580.0  |
| 72.5° | 1420.2  | 459.2  | 482.4  | 733.9  | 786.4  | 780.3  | 659.4  | 758.3  | 826.8  | 773.0  | 471.4  |
| 75°   | 782.8   | 310.2  | 344.4  | 532.4  | 638.7  | 602.0  | 566.6  | 642.4  | 712.0  | 659.4  | 363.9  |
| 77.5° | 350.4   | 185.6  | 239.3  | 349.2  | 501.9  | 412.8  | 438.4  | 500.7  | 565.4  | 510.4  | 243.0  |
| 80°   | 135.5   | 103.8  | 158.8  | 190.5  | 365.1  | 228.4  | 282.1  | 368.8  | 415.2  | 371.3  | 147.8  |
| 82.5° | 17.1    | 46.4   | 68.4   | 74.5   | 212.5  | 120.8  | 163.6  | 232.1  | 228.4  | 197.8  | 74.5   |
| 85°   | 0.0     | 8.5    | 9.7    | 4.9    | 91.6   | 44.0   | 53.7   | 75.7   | 70.8   | 53.7   | 6.1    |
| 87.5° | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.5    | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2454.6 | 2454.6 | 2454.6 | 2454.6 | 2454.6 | 2454.6 | 2454.6 | 2454.6 | 2454.6 | 2454.6 | 2454.6 |
| 2.5°  | 2138.3 | 2094.3 | 2072.3 | 2054.0 | 2071.1 | 2080.9 | 2080.9 | 2122.4 | 2146.8 | 2156.6 | 2225.0 |
| 5°    | 1884.3 | 1802.5 | 1747.5 | 1714.5 | 1725.5 | 1737.7 | 1751.1 | 1803.7 | 1839.1 | 1862.2 | 1968.5 |
| 7.5°  | 1684.0 | 1559.4 | 1482.5 | 1442.2 | 1448.3 | 1456.8 | 1467.8 | 1519.2 | 1554.5 | 1585.1 | 1703.6 |
| 10°   | 1585.1 | 1409.2 | 1307.9 | 1259.0 | 1250.5 | 1245.6 | 1241.9 | 1272.4 | 1299.3 | 1323.8 | 1440.9 |
| 12.5° | 1590.0 | 1344.5 | 1221.2 | 1161.3 | 1135.7 | 1106.4 | 1083.2 | 1088.0 | 1105.2 | 1135.7 | 1210.2 |
| 15°   | 1652.2 | 1323.8 | 1176.0 | 1101.5 | 1058.7 | 1024.6 | 996.5  | 990.4  | 996.5  | 1001.3 | 1047.8 |
| 17.5° | 1736.5 | 1321.3 | 1136.9 | 1044.1 | 1000.1 | 972.0  | 946.4  | 937.9  | 939.1  | 945.2  | 957.4  |
| 20°   | 1803.7 | 1313.9 | 1093.0 | 989.1  | 950.1  | 925.7  | 900.0  | 891.4  | 893.9  | 895.1  | 908.6  |
| 22.5° | 1839.1 | 1303.0 | 1044.1 | 934.2  | 901.2  | 876.8  | 853.6  | 852.4  | 852.4  | 859.7  | 869.5  |
| 25°   | 1839.1 | 1279.8 | 1000.1 | 881.7  | 852.4  | 830.4  | 802.3  | 807.2  | 809.6  | 819.4  | 834.0  |
| 27.5° | 1795.1 | 1235.8 | 964.7  | 836.5  | 806.0  | 784.0  | 758.3  | 764.4  | 768.1  | 779.1  | 797.4  |
| 30°   | 1738.9 | 1183.3 | 924.4  | 793.8  | 758.3  | 742.5  | 720.5  | 722.9  | 727.9  | 740.0  | 760.8  |
| 32.5° | 1679.1 | 1121.0 | 891.4  | 751.0  | 715.6  | 703.4  | 679.0  | 682.6  | 687.5  | 700.9  | 724.2  |
| 35°   | 1613.1 | 1047.8 | 852.4  | 712.0  | 676.5  | 666.8  | 638.7  | 641.1  | 648.4  | 663.1  | 686.3  |
| 37.5° | 1543.5 | 987.9  | 813.3  | 674.0  | 637.4  | 627.7  | 598.4  | 600.9  | 609.4  | 626.5  | 648.4  |
| 40°   | 1475.2 | 929.3  | 771.7  | 633.8  | 597.2  | 588.6  | 556.9  | 559.3  | 569.1  | 587.4  | 610.6  |
| 42.5° | 1400.7 | 884.2  | 718.0  | 592.2  | 553.2  | 544.7  | 515.4  | 519.0  | 530.0  | 548.3  | 571.5  |
| 45°   | 1311.5 | 854.8  | 658.3  | 553.2  | 509.2  | 500.7  | 473.9  | 481.1  | 493.3  | 511.7  | 536.1  |
| 47.5° | 1220.0 | 842.6  | 608.1  | 511.7  | 464.0  | 456.7  | 434.7  | 446.9  | 460.3  | 475.0  | 501.9  |
| 50°   | 1132.0 | 826.8  | 556.9  | 472.6  | 425.0  | 417.7  | 403.0  | 418.8  | 432.2  | 445.8  | 471.4  |
| 52.5° | 1031.9 | 792.5  | 510.4  | 438.4  | 392.0  | 389.5  | 382.2  | 396.9  | 409.1  | 421.3  | 443.3  |
| 55°   | 928.0  | 737.6  | 470.2  | 407.8  | 363.9  | 366.3  | 362.6  | 374.9  | 384.7  | 395.6  | 415.2  |
| 57.5° | 837.7  | 668.0  | 438.4  | 374.9  | 339.5  | 346.9  | 341.9  | 348.0  | 354.1  | 367.6  | 383.5  |
| 60°   | 746.1  | 585.0  | 403.0  | 335.8  | 315.1  | 323.6  | 310.2  | 308.9  | 311.4  | 315.1  | 344.4  |
| 62.5° | 622.8  | 498.3  | 359.1  | 301.7  | 288.2  | 291.8  | 266.2  | 246.7  | 246.7  | 250.3  | 294.3  |
| 65°   | 500.7  | 417.7  | 310.2  | 262.5  | 251.5  | 249.1  | 212.5  | 185.6  | 183.2  | 194.1  | 232.1  |
| 67.5° | 411.5  | 346.9  | 261.4  | 218.6  | 211.3  | 213.7  | 186.9  | 160.0  | 157.5  | 169.7  | 197.8  |
| 70°   | 340.7  | 279.6  | 208.8  | 168.5  | 175.9  | 186.9  | 160.0  | 134.4  | 130.7  | 141.7  | 168.5  |
| 72.5° | 271.1  | 218.6  | 160.0  | 124.5  | 145.3  | 158.8  | 130.7  | 106.2  | 103.8  | 113.6  | 139.2  |
| 75°   | 199.1  | 156.3  | 108.6  | 90.4   | 112.3  | 124.5  | 95.2   | 75.7   | 72.1   | 80.6   | 106.2  |
| 77.5° | 123.3  | 87.9   | 68.4   | 53.7   | 77.0   | 83.0   | 50.0   | 44.0   | 42.7   | 48.9   | 67.1   |
| 80°   | 57.4   | 37.8   | 33.0   | 18.3   | 28.1   | 33.0   | 20.8   | 23.2   | 24.4   | 29.3   | 41.5   |
| 82.5° | 15.9   | 6.1    | 1.2    | 0.0    | 0.0    | 9.7    | 4.9    | 9.7    | 12.2   | 18.3   | 26.9   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.5    | 6.1    | 11.0   | 19.6   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 4.9    | 9.7    |
| 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):**

|       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 360°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|
| 0°    | 2454.6 | 2454.6 | 2454.6 | 2454.6 | 2454.6 | 2454.6 | 2454.6 | 2454.6  |
| 2.5°  | 2276.2 | 2325.1 | 2403.2 | 2483.9 | 2563.2 | 2643.8 | 2722.0 | 2750.1  |
| 5°    | 2065.0 | 2177.3 | 2332.4 | 2498.5 | 2669.4 | 2842.8 | 3001.6 | 3073.7  |
| 7.5°  | 1829.3 | 1990.4 | 2223.7 | 2483.9 | 2756.1 | 3028.5 | 3278.8 | 3394.8  |
| 10°   | 1577.8 | 1781.7 | 2047.8 | 2399.6 | 2790.4 | 3166.4 | 3510.8 | 3661.0  |
| 12.5° | 1338.3 | 1552.1 | 1846.4 | 2267.7 | 2763.5 | 3245.9 | 3659.9 | 3836.9  |
| 15°   | 1138.2 | 1327.4 | 1644.9 | 2111.4 | 2676.8 | 3250.7 | 3730.7 | 3924.8  |
| 17.5° | 987.9  | 1111.3 | 1439.7 | 1938.0 | 2563.2 | 3205.6 | 3755.1 | 3962.6  |
| 20°   | 913.4  | 947.6  | 1173.5 | 1715.7 | 2456.9 | 3162.8 | 3779.5 | 3998.1  |
| 22.5° | 869.5  | 878.0  | 959.8  | 1428.7 | 2329.9 | 3149.4 | 3822.2 | 4046.9  |
| 25°   | 834.0  | 836.5  | 858.4  | 1132.0 | 2135.8 | 3140.8 | 3888.1 | 4114.0  |
| 27.5° | 798.7  | 798.7  | 810.9  | 912.2  | 1872.1 | 3104.2 | 3973.6 | 4194.7  |
| 30°   | 763.2  | 763.2  | 771.7  | 807.2  | 1563.1 | 3032.2 | 4076.2 | 4299.7  |
| 32.5° | 726.6  | 726.6  | 733.9  | 759.5  | 1248.0 | 2941.7 | 4170.2 | 4406.0  |
| 35°   | 689.9  | 687.5  | 697.3  | 724.2  | 992.8  | 2827.0 | 4264.3 | 4520.8  |
| 37.5° | 650.9  | 649.6  | 659.4  | 689.9  | 857.2  | 2693.9 | 4335.1 | 4677.1  |
| 40°   | 609.4  | 609.4  | 620.3  | 653.3  | 818.2  | 2526.6 | 4447.5 | 4901.8  |
| 42.5° | 571.5  | 569.1  | 581.3  | 621.6  | 788.8  | 2366.6 | 4649.0 | 5229.0  |
| 45°   | 534.8  | 530.0  | 541.0  | 591.0  | 737.6  | 2310.5 | 5025.1 | 5712.6  |
| 47.5° | 500.7  | 488.5  | 498.3  | 554.4  | 691.2  | 2520.5 | 5640.6 | 6383.0  |
| 50°   | 472.6  | 449.4  | 458.0  | 517.7  | 655.8  | 2976.0 | 6439.2 | 7273.2  |
| 52.5° | 443.3  | 412.8  | 417.7  | 472.6  | 624.0  | 3409.5 | 7305.0 | 8447.9  |
| 55°   | 412.8  | 378.5  | 381.0  | 427.4  | 578.8  | 3474.2 | 8150.0 | 10050.1 |
| 57.5° | 378.5  | 346.9  | 346.9  | 385.9  | 545.8  | 3011.3 | 8799.7 | 12038.2 |
| 60°   | 340.7  | 319.9  | 313.9  | 352.9  | 575.1  | 2124.8 | 8875.4 | 13320.4 |
| 62.5° | 299.2  | 288.2  | 279.6  | 321.1  | 597.2  | 1259.0 | 8266.0 | 13010.2 |
| 65°   | 251.5  | 249.1  | 243.0  | 352.9  | 503.1  | 743.6  | 7096.2 | 12058.9 |
| 67.5° | 211.3  | 207.6  | 207.6  | 370.0  | 382.2  | 467.7  | 5544.0 | 10749.9 |
| 70°   | 181.9  | 168.5  | 168.5  | 279.6  | 232.1  | 323.6  | 3871.1 | 9337.0  |
| 72.5° | 152.6  | 138.0  | 128.2  | 223.4  | 173.4  | 236.9  | 2419.1 | 7996.1  |
| 75°   | 122.1  | 111.1  | 98.9   | 147.8  | 129.5  | 179.5  | 1405.6 | 6624.8  |
| 77.5° | 87.9   | 83.0   | 69.6   | 108.6  | 94.0   | 129.5  | 836.5  | 5111.8  |
| 80°   | 45.2   | 46.4   | 44.0   | 62.3   | 63.6   | 87.9   | 476.2  | 3498.6  |
| 82.5° | 26.9   | 20.8   | 23.2   | 30.5   | 36.6   | 50.0   | 179.5  | 2056.5  |
| 85°   | 17.1   | 11.0   | 11.0   | 14.7   | 18.3   | 19.6   | 54.9   | 834.0   |
| 87.5° | 8.5    | 3.7    | 4.9    | 7.3    | 6.1    | 4.9    | 2.5    | 210.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     |

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