

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: P964549

Luminaire Tested: **NAV-SB3C-730-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964549  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3C-730-U-T4W  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22986.6 lumens  
Efficiency: N/A  
Efficacy: 154.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

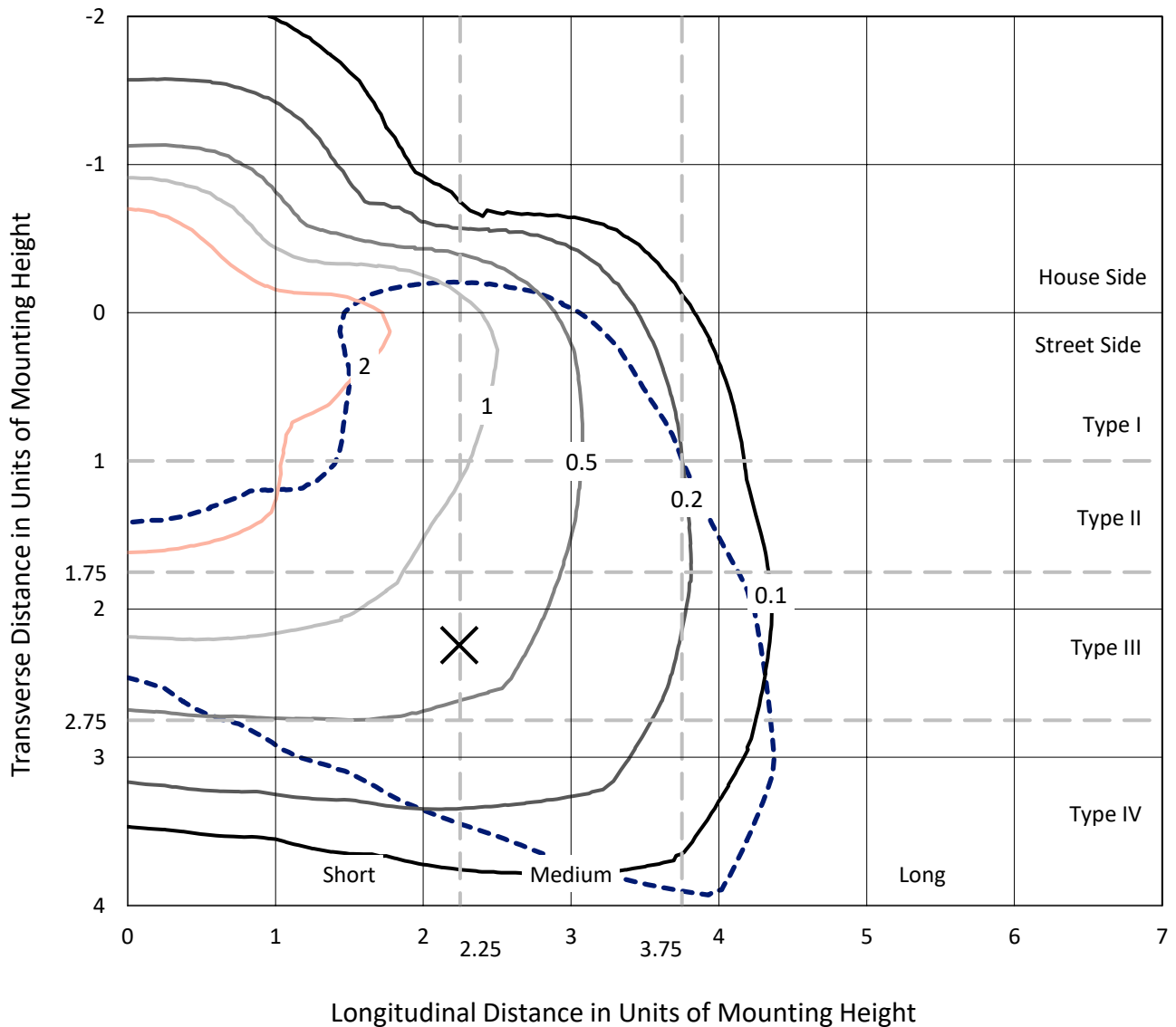
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

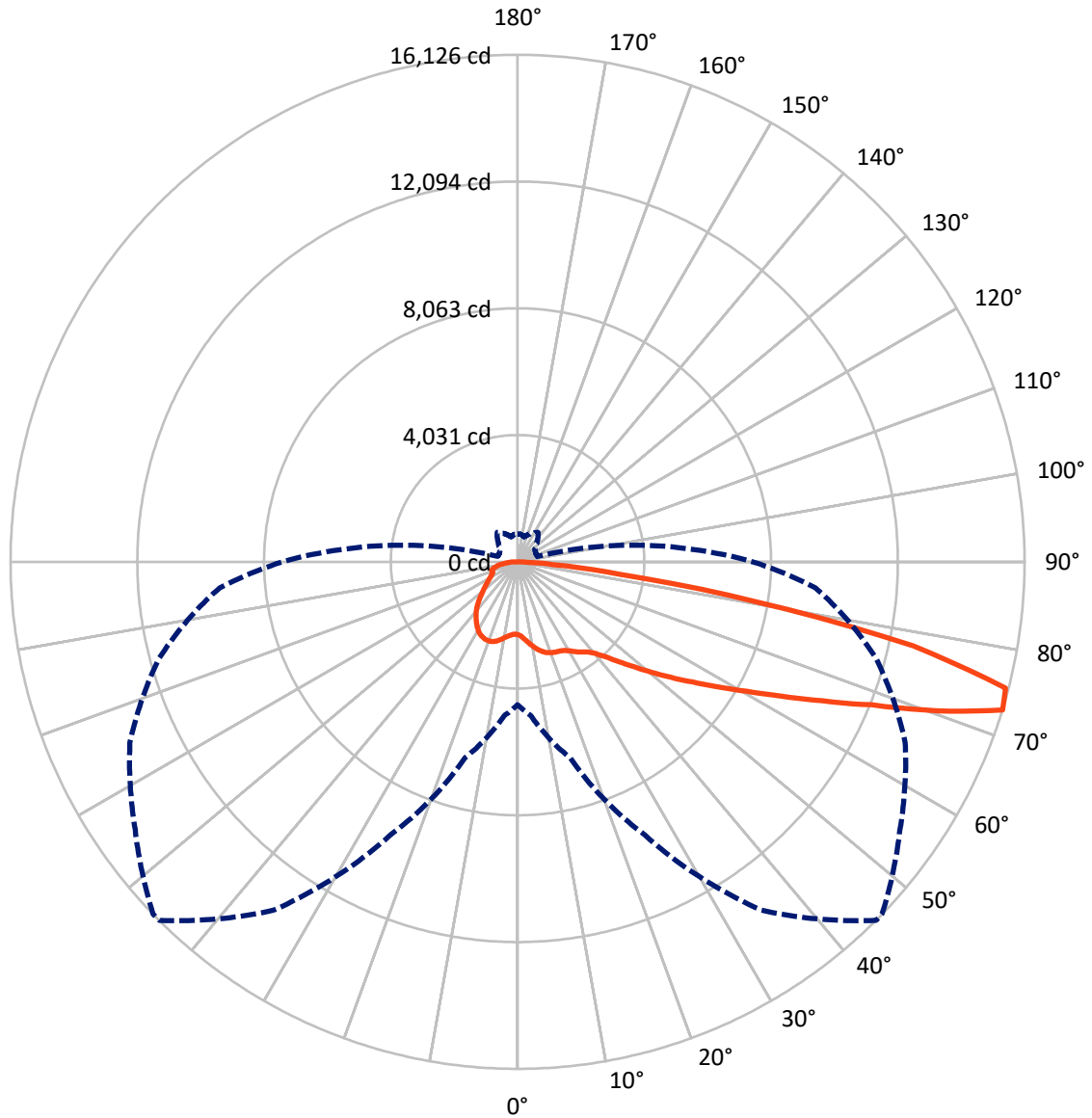
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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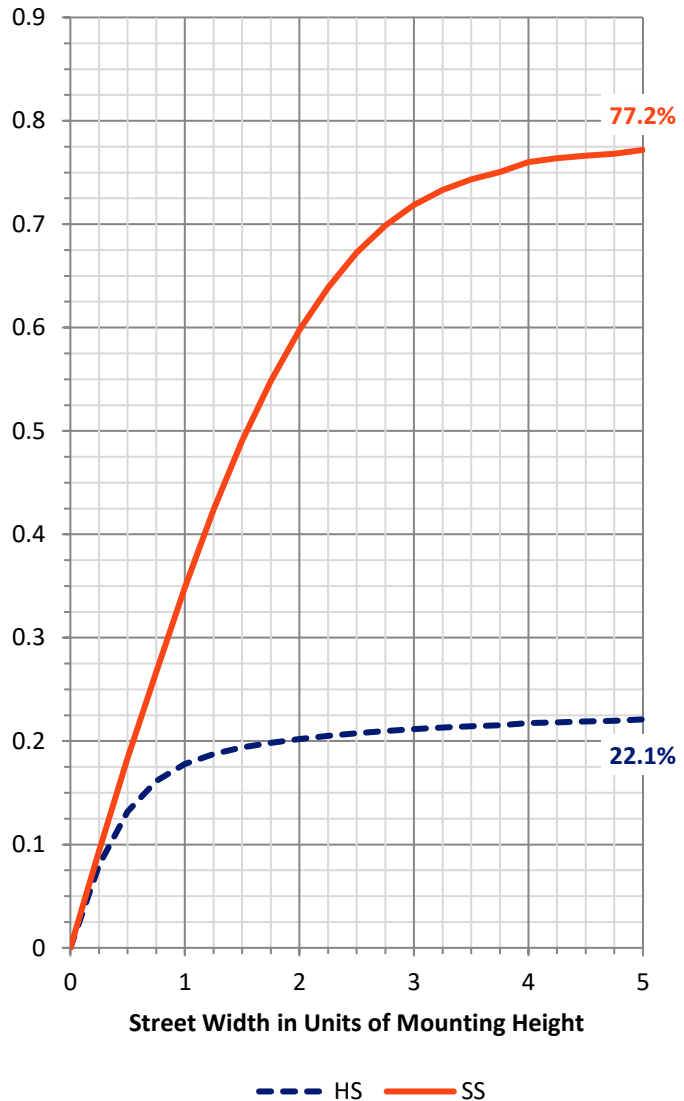
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5196.5   | 0.0    | 5196.5  |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 17790.2  | 0.0    | 17790.2 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 22986.6  | 0.0    | 22986.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 236.0   | 1.0       |
| 10°-20°   | 786.9   | 3.4       |
| 20°-30°   | 1368.9  | 6.0       |
| 30°-40°   | 1962.4  | 8.5       |
| 40°-50°   | 2763.1  | 12.0      |
| 50°-60°   | 4232.3  | 18.4      |
| 60°-70°   | 6131.1  | 26.7      |
| 70°-80°   | 4896.1  | 21.3      |
| 80°-90°   | 609.8   | 2.7       |
| 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°    | 22986.6 | 100.0     |
| 0°-180°   | 22986.6 | 100.0     |

**Coefficient of Utilization**

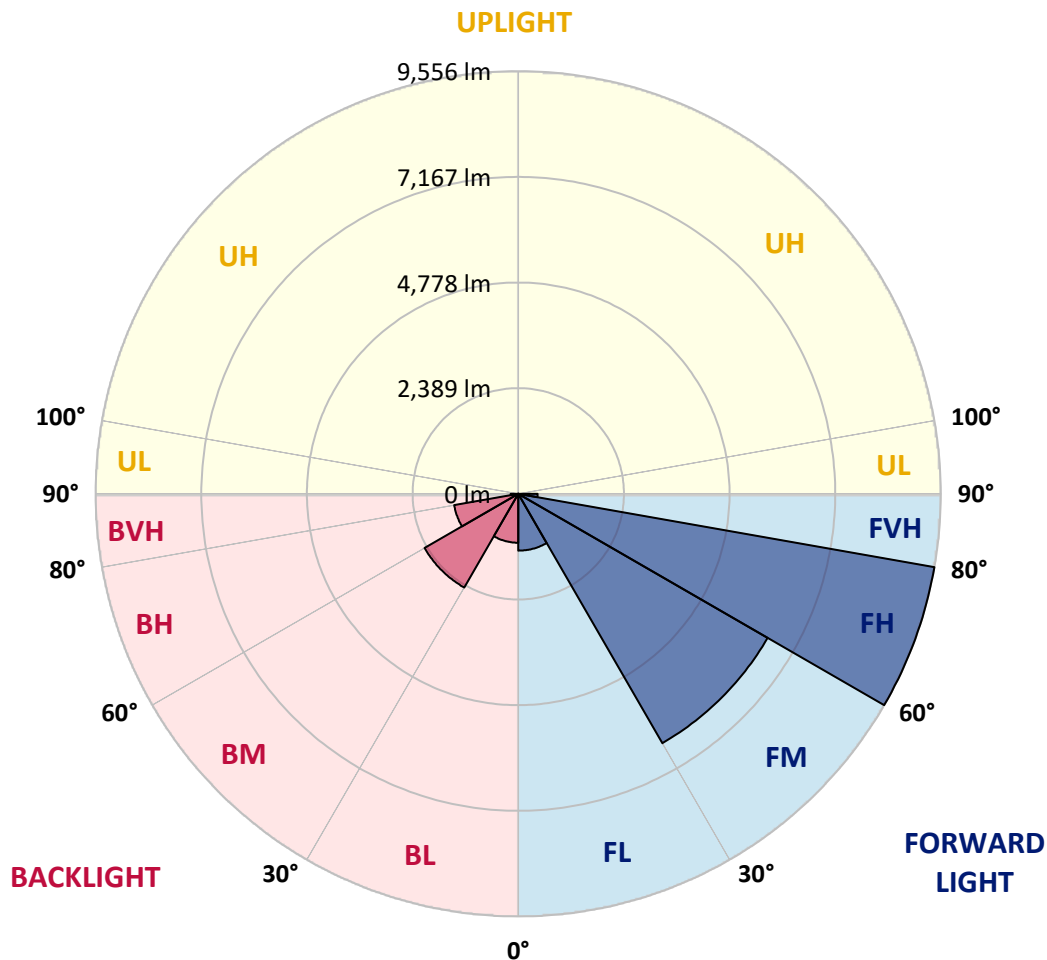


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1285.4 | 5.6       |                         |      |          |
| FM (30°-60°)   | 6511.0 | 28.3      |                         |      |          |
| FH (60°-80°)   | 9556.2 | 41.6      |                         |      | G4/12000 |
| FVH (80°-90°)  | 437.5  | 1.9       |                         |      | G3/500   |
| BL (0°-30°)    | 1106.4 | 4.8       | B3/2500                 |      |          |
| BM (30°-60°)   | 2446.8 | 10.6      | B2/2500                 |      |          |
| BH (60°-80°)   | 1471.0 | 6.4       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 172.3  | 0.7       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**  
 Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2318.9 | 2318.9 | 2318.9 | 2318.9  | 2318.9  | 2318.9  | 2318.9  | 2318.9  | 2318.9  | 2318.9  | 2318.9  |
| 2.5°  | 2409.8 | 2425.5 | 2410.9 | 2397.6  | 2391.5  | 2375.8  | 2374.6  | 2364.9  | 2358.8  | 2341.9  | 2337.1  |
| 5°    | 2578.1 | 2598.6 | 2574.4 | 2547.7  | 2523.5  | 2484.8  | 2480.0  | 2452.1  | 2420.6  | 2384.3  | 2363.8  |
| 7.5°  | 2768.1 | 2786.4 | 2758.5 | 2718.5  | 2676.2  | 2611.9  | 2610.8  | 2559.8  | 2510.2  | 2448.5  | 2413.4  |
| 10°   | 2934.1 | 2958.3 | 2920.7 | 2866.2  | 2813.0  | 2740.3  | 2731.8  | 2673.7  | 2610.8  | 2530.8  | 2477.5  |
| 12.5° | 3080.5 | 3097.5 | 3061.2 | 2994.6  | 2932.8  | 2860.2  | 2849.3  | 2785.1  | 2714.9  | 2624.1  | 2556.2  |
| 15°   | 3196.8 | 3218.6 | 3170.2 | 3098.8  | 3033.4  | 2961.9  | 2952.2  | 2894.1  | 2823.9  | 2728.2  | 2641.0  |
| 17.5° | 3273.1 | 3291.3 | 3241.7 | 3161.7  | 3098.8  | 3039.4  | 3032.2  | 2983.7  | 2922.0  | 2825.1  | 2731.8  |
| 20°   | 3302.1 | 3321.5 | 3269.4 | 3188.4  | 3130.2  | 3084.2  | 3080.5  | 3045.5  | 3003.0  | 2914.7  | 2820.2  |
| 22.5° | 3331.2 | 3349.4 | 3281.5 | 3196.8  | 3145.9  | 3116.9  | 3115.7  | 3092.7  | 3075.7  | 3003.0  | 2911.0  |
| 25°   | 3448.7 | 3453.5 | 3362.7 | 3240.4  | 3167.8  | 3142.3  | 3141.1  | 3139.9  | 3147.2  | 3090.3  | 3009.1  |
| 27.5° | 3550.4 | 3549.2 | 3471.7 | 3356.7  | 3244.0  | 3190.7  | 3189.6  | 3201.7  | 3224.6  | 3177.4  | 3110.9  |
| 30°   | 3699.3 | 3686.0 | 3594.0 | 3474.1  | 3371.2  | 3288.8  | 3281.5  | 3270.7  | 3288.8  | 3251.3  | 3212.6  |
| 32.5° | 4015.4 | 3973.0 | 3824.1 | 3611.0  | 3476.5  | 3413.6  | 3403.9  | 3336.1  | 3343.3  | 3320.3  | 3300.9  |
| 35°   | 4468.3 | 4412.6 | 4214.0 | 3870.1  | 3607.3  | 3517.7  | 3512.9  | 3426.9  | 3412.3  | 3391.8  | 3399.0  |
| 37.5° | 5007.1 | 4938.1 | 4706.8 | 4245.4  | 3832.6  | 3638.9  | 3631.6  | 3554.1  | 3494.7  | 3472.9  | 3514.1  |
| 40°   | 5548.4 | 5461.2 | 5269.9 | 4703.2  | 4164.4  | 3841.0  | 3818.0  | 3700.6  | 3632.7  | 3596.4  | 3683.6  |
| 42.5° | 6073.9 | 6001.3 | 5837.8 | 5216.6  | 4573.7  | 4136.5  | 4085.6  | 3884.6  | 3833.8  | 3799.9  | 3957.3  |
| 45°   | 6539.0 | 6473.6 | 6353.7 | 5765.2  | 5053.1  | 4538.5  | 4488.9  | 4160.7  | 4145.0  | 4145.0  | 4372.6  |
| 47.5° | 6916.8 | 6902.2 | 6775.0 | 6324.7  | 5618.6  | 4996.3  | 4910.3  | 4544.5  | 4587.0  | 4652.4  | 4962.3  |
| 50°   | 7335.7 | 7295.7 | 7160.1 | 6875.6  | 6283.5  | 5520.5  | 5450.3  | 5015.6  | 5174.2  | 5353.5  | 5814.8  |
| 52.5° | 7720.8 | 7742.6 | 7591.3 | 7449.6  | 7034.2  | 6105.4  | 5981.9  | 5571.4  | 5914.1  | 6210.8  | 6813.8  |
| 55°   | 8116.8 | 8118.0 | 8075.6 | 8056.2  | 7821.3  | 6752.1  | 6616.5  | 6239.9  | 6784.8  | 7152.9  | 7978.7  |
| 57.5° | 8488.5 | 8491.0 | 8553.9 | 8724.7  | 8734.3  | 7498.0  | 7344.2  | 7060.8  | 7752.3  | 8127.6  | 9180.0  |
| 60°   | 8820.3 | 8837.2 | 9009.2 | 9408.8  | 9537.2  | 8352.9  | 8207.6  | 8030.8  | 8752.5  | 9130.3  | 10442.9 |
| 62.5° | 8931.7 | 8993.5 | 9376.1 | 9944.0  | 10330.4 | 9401.6  | 9258.6  | 9153.4  | 9803.6  | 10154.8 | 11498.9 |
| 65°   | 8742.8 | 8884.5 | 9624.3 | 10386.0 | 11146.5 | 10647.6 | 10505.9 | 10390.8 | 10895.9 | 11226.4 | 12365.9 |
| 67.5° | 8279.0 | 8461.9 | 9609.8 | 10849.8 | 12137.0 | 12146.7 | 12014.7 | 11744.7 | 12066.8 | 12193.9 | 12648.0 |
| 70°   | 7057.2 | 7330.9 | 8763.4 | 11023.0 | 13274.1 | 14196.8 | 14069.7 | 13374.6 | 13235.3 | 12620.2 | 11853.7 |
| 72.5° | 4547.0 | 4915.1 | 6453.0 | 9597.7  | 13527.1 | 16125.8 | 16118.5 | 14845.8 | 13604.6 | 11791.9 | 9506.9  |
| 75°   | 1659.0 | 1884.2 | 2998.2 | 6024.3  | 11354.7 | 16027.7 | 16074.9 | 14594.0 | 12419.2 | 9108.6  | 5922.6  |
| 77.5° | 604.2  | 661.1  | 978.5  | 2315.3  | 6983.3  | 12860.0 | 12958.0 | 11667.2 | 8839.7  | 4571.2  | 2346.7  |
| 80°   | 317.2  | 348.7  | 501.3  | 898.5   | 2992.2  | 7637.3  | 7791.0  | 6933.7  | 4154.6  | 1376.8  | 703.6   |
| 82.5° | 175.6  | 190.1  | 281.0  | 488.0   | 1347.8  | 3265.9  | 3357.9  | 2739.1  | 1461.5  | 583.6   | 290.6   |
| 85°   | 94.4   | 100.6  | 132.0  | 266.4   | 658.8   | 1132.2  | 1157.6  | 818.6   | 582.4   | 342.7   | 140.4   |
| 87.5° | 27.9   | 33.9   | 43.6   | 84.8    | 257.9   | 254.3   | 260.3   | 162.3   | 230.1   | 173.1   | 46.0    |
| 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):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2318.9  | 2318.9 | 2318.9 | 2318.9 | 2318.9 | 2318.9 | 2318.9 | 2318.9 | 2318.9 | 2318.9 | 2318.9 |
| 2.5°  | 2329.8  | 2326.1 | 2312.8 | 2306.8 | 2299.5 | 2298.4 | 2304.4 | 2305.6 | 2306.8 | 2308.0 | 2312.8 |
| 5°    | 2351.6  | 2339.5 | 2327.4 | 2320.1 | 2322.5 | 2323.8 | 2335.9 | 2344.4 | 2350.4 | 2355.2 | 2357.7 |
| 7.5°  | 2394.0  | 2384.3 | 2363.8 | 2362.5 | 2366.1 | 2377.1 | 2392.8 | 2412.1 | 2423.0 | 2431.5 | 2434.0 |
| 10°   | 2456.9  | 2438.8 | 2414.6 | 2418.2 | 2425.5 | 2441.2 | 2473.9 | 2489.6 | 2507.8 | 2523.5 | 2520.0 |
| 12.5° | 2521.1  | 2505.4 | 2477.5 | 2480.0 | 2492.1 | 2520.0 | 2551.4 | 2570.8 | 2582.9 | 2595.0 | 2599.8 |
| 15°   | 2604.7  | 2576.8 | 2546.5 | 2546.5 | 2568.3 | 2598.6 | 2613.1 | 2628.9 | 2636.2 | 2649.5 | 2654.3 |
| 17.5° | 2690.6  | 2654.3 | 2614.4 | 2611.9 | 2638.6 | 2653.1 | 2661.6 | 2664.0 | 2666.4 | 2681.0 | 2685.8 |
| 20°   | 2776.6  | 2736.6 | 2679.8 | 2674.9 | 2681.0 | 2678.5 | 2677.3 | 2674.9 | 2678.5 | 2696.7 | 2704.0 |
| 22.5° | 2861.4  | 2815.4 | 2736.6 | 2714.9 | 2697.9 | 2674.9 | 2673.7 | 2672.5 | 2674.9 | 2693.1 | 2705.2 |
| 25°   | 2960.7  | 2905.0 | 2799.7 | 2734.3 | 2677.3 | 2645.8 | 2649.5 | 2650.6 | 2653.1 | 2667.7 | 2687.0 |
| 27.5° | 3068.4  | 3006.7 | 2857.8 | 2728.2 | 2625.2 | 2603.5 | 2597.5 | 2601.0 | 2609.5 | 2632.5 | 2655.6 |
| 30°   | 3176.3  | 3103.6 | 2911.0 | 2704.0 | 2559.8 | 2529.6 | 2510.2 | 2518.7 | 2545.4 | 2568.3 | 2593.8 |
| 32.5° | 3274.4  | 3201.7 | 2953.4 | 2650.6 | 2476.3 | 2429.1 | 2403.6 | 2414.6 | 2441.2 | 2449.6 | 2480.0 |
| 35°   | 3389.4  | 3307.1 | 2971.6 | 2565.9 | 2385.5 | 2312.8 | 2279.0 | 2263.2 | 2276.5 | 2268.0 | 2294.7 |
| 37.5° | 3517.7  | 3431.7 | 2969.1 | 2454.6 | 2279.0 | 2195.3 | 2148.2 | 2088.8 | 2061.0 | 2032.0 | 2050.1 |
| 40°   | 3707.8  | 3584.3 | 2940.1 | 2320.1 | 2147.0 | 2070.7 | 1985.9 | 1885.4 | 1822.4 | 1765.6 | 1769.2 |
| 42.5° | 3967.0  | 3796.2 | 2886.8 | 2172.4 | 1998.0 | 1926.6 | 1811.5 | 1694.1 | 1594.8 | 1500.3 | 1491.9 |
| 45°   | 4353.3  | 4073.6 | 2820.2 | 2014.9 | 1837.0 | 1766.7 | 1642.0 | 1510.0 | 1397.4 | 1276.3 | 1261.8 |
| 47.5° | 4910.3  | 4446.4 | 2757.2 | 1835.8 | 1667.5 | 1603.3 | 1490.7 | 1368.4 | 1235.1 | 1117.7 | 1104.3 |
| 50°   | 5675.5  | 4981.7 | 2699.1 | 1661.4 | 1500.3 | 1451.9 | 1362.3 | 1237.6 | 1103.1 | 1008.7 | 1002.7 |
| 52.5° | 6649.2  | 5709.5 | 2674.9 | 1493.0 | 1344.1 | 1325.9 | 1254.5 | 1138.3 | 1011.2 | 931.2  | 925.2  |
| 55°   | 7766.8  | 6580.1 | 2674.9 | 1332.0 | 1207.2 | 1213.3 | 1163.7 | 1056.0 | 945.8  | 874.3  | 867.0  |
| 57.5° | 8907.5  | 7461.7 | 2626.5 | 1183.1 | 1091.0 | 1116.4 | 1085.0 | 990.6  | 891.2  | 817.3  | 805.2  |
| 60°   | 9958.6  | 8200.3 | 2430.3 | 1047.4 | 988.1  | 1028.1 | 1007.5 | 926.4  | 805.2  | 743.5  | 733.8  |
| 62.5° | 10766.3 | 8616.9 | 2052.5 | 939.7  | 903.3  | 949.4  | 938.5  | 841.6  | 789.6  | 764.1  | 755.6  |
| 65°   | 11170.8 | 8549.1 | 1569.4 | 844.0  | 831.9  | 903.3  | 880.4  | 876.7  | 835.6  | 806.5  | 796.7  |
| 67.5° | 10922.5 | 7965.4 | 1138.3 | 773.8  | 790.7  | 861.0  | 949.4  | 963.9  | 887.6  | 830.7  | 821.0  |
| 70°   | 9833.8  | 6909.5 | 847.7  | 707.1  | 738.6  | 862.1  | 1082.6 | 1008.7 | 870.6  | 804.0  | 793.1  |
| 72.5° | 7481.1  | 5152.5 | 657.5  | 636.9  | 670.9  | 868.3  | 1141.8 | 988.1  | 822.3  | 888.8  | 881.5  |
| 75°   | 4278.1  | 2828.7 | 528.0  | 550.9  | 586.1  | 811.3  | 1111.6 | 934.8  | 784.6  | 816.2  | 816.2  |
| 77.5° | 1631.1  | 1087.4 | 435.9  | 466.2  | 471.1  | 708.4  | 1063.2 | 931.2  | 747.1  | 729.0  | 664.8  |
| 80°   | 565.5   | 425.1  | 360.9  | 370.5  | 364.5  | 629.7  | 1019.6 | 810.1  | 611.5  | 547.3  | 529.2  |
| 82.5° | 231.2   | 211.9  | 285.8  | 273.7  | 259.1  | 489.2  | 823.4  | 662.4  | 500.1  | 442.0  | 437.2  |
| 85°   | 100.6   | 134.4  | 188.9  | 165.8  | 150.2  | 339.1  | 660.0  | 560.7  | 422.6  | 364.5  | 363.3  |
| 87.5° | 20.6    | 50.8   | 79.9   | 75.0   | 77.5   | 226.4  | 468.6  | 398.4  | 299.1  | 224.1  | 175.6  |
| 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)