

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: P968359

Luminaire Tested: **NAV-SB5B-760-U-T4FT-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P968359  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5B-760-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 5700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 23354.6 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 182.7  
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



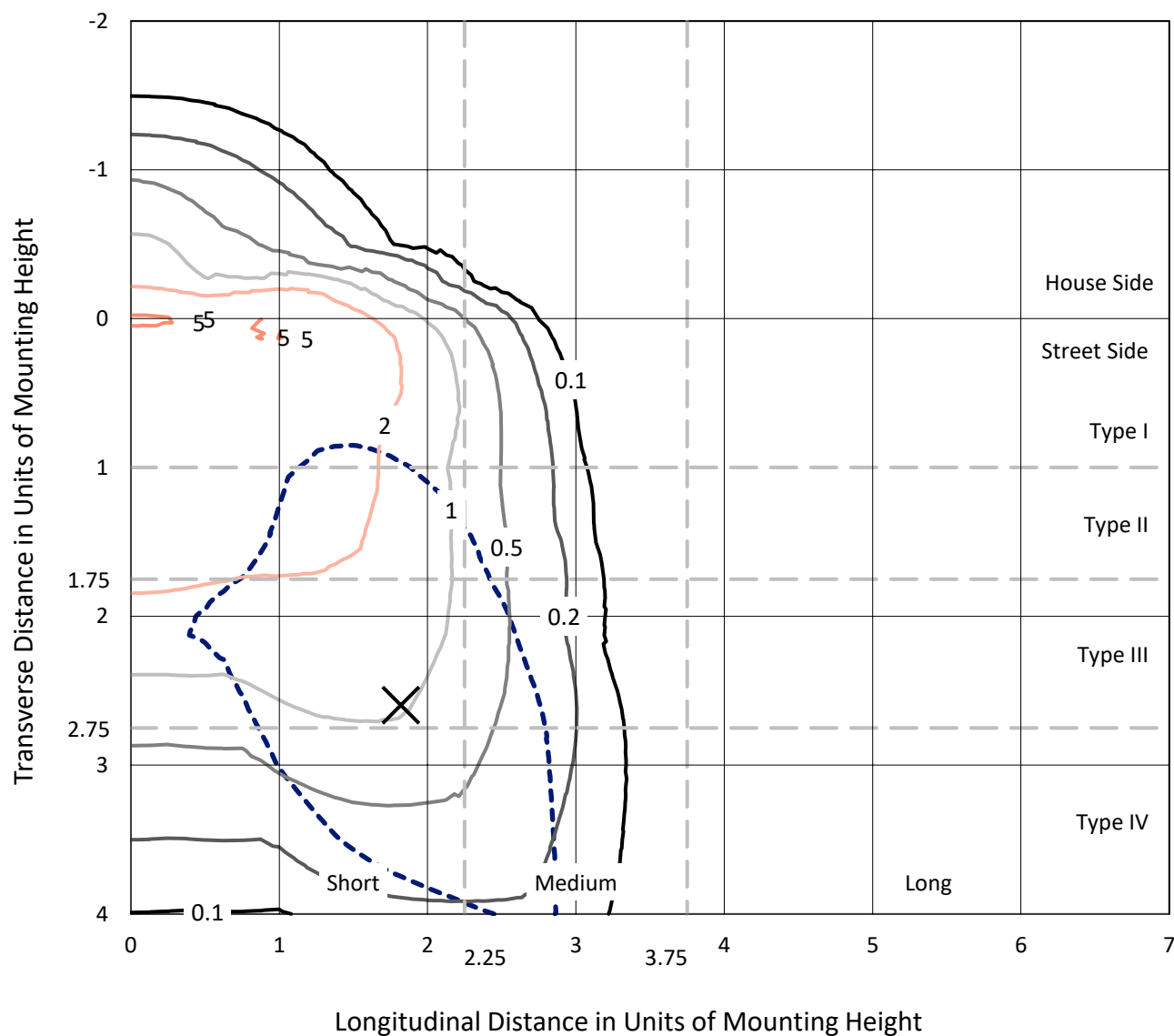
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

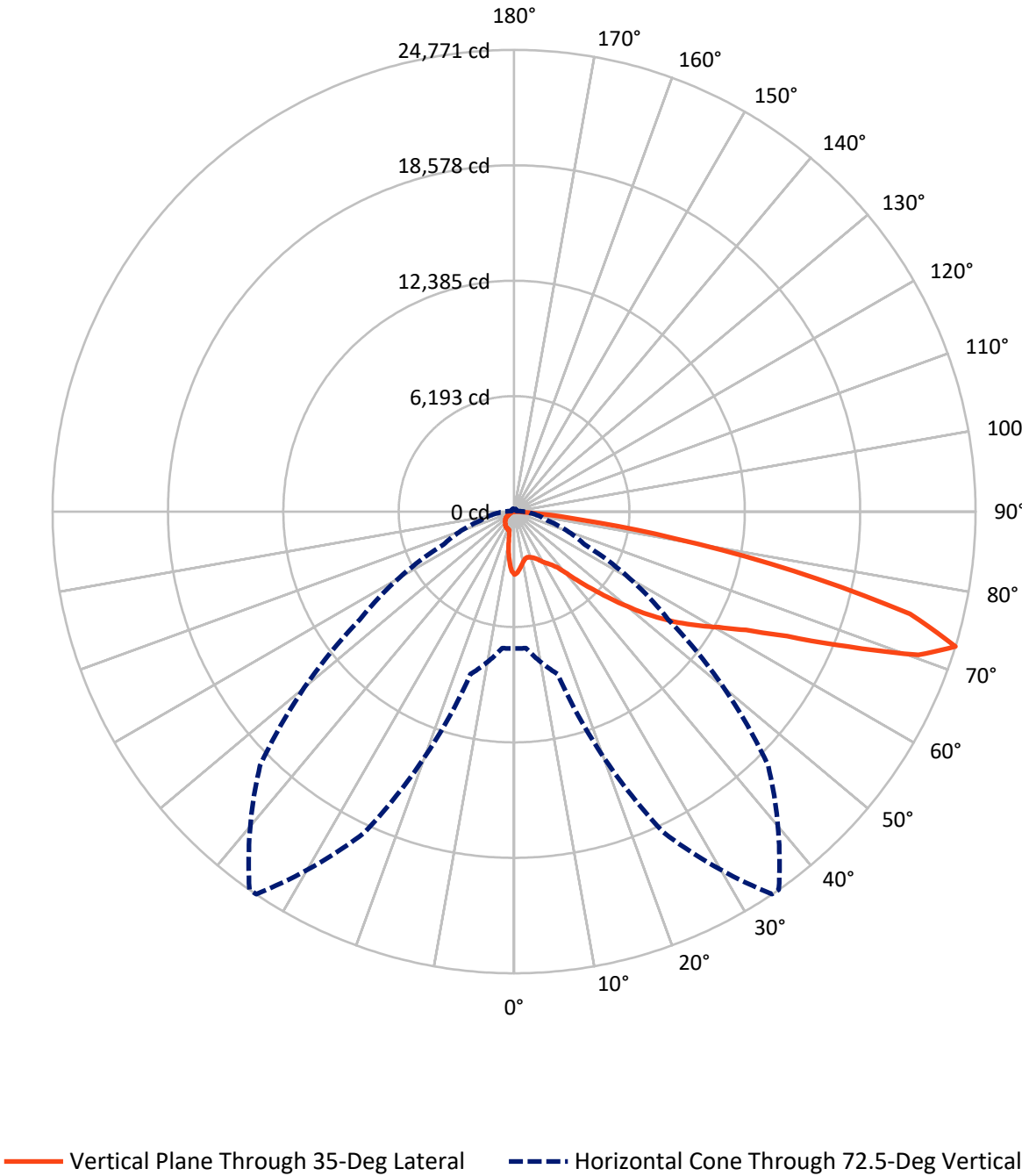


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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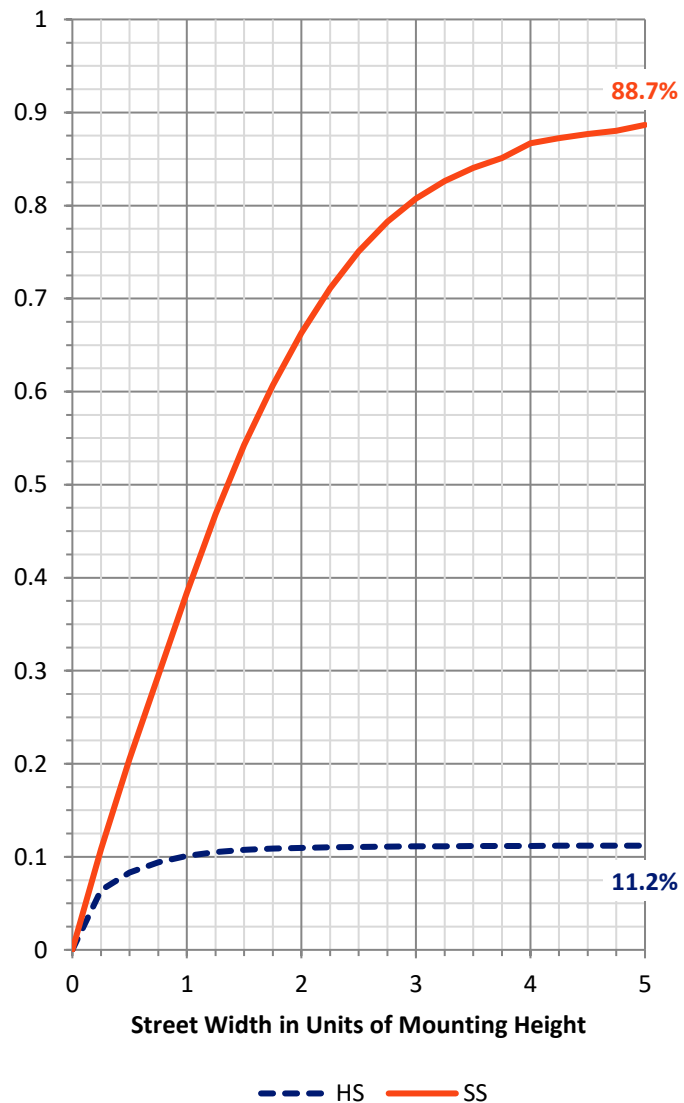
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2628.4   | 0.0    | 2628.4  |
|                    | % Fixture | 11.3     | 0.0    | 11.3    |
| <b>Street Side</b> | Lumens    | 20726.2  | 0.0    | 20726.2 |
|                    | % Fixture | 88.7     | 0.0    | 88.7    |
| <b>Total</b>       | Lumens    | 23354.6  | 0.0    | 23354.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 278.1   | 1.2       |
| 10°-20°   | 650.7   | 2.8       |
| 20°-30°   | 1057.0  | 4.5       |
| 30°-40°   | 1763.6  | 7.6       |
| 40°-50°   | 3336.9  | 14.3      |
| 50°-60°   | 5302.2  | 22.7      |
| 60°-70°   | 6559.2  | 28.1      |
| 70°-80°   | 4077.3  | 17.5      |
| 80°-90°   | 329.5   | 1.4       |
| 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°    | 23354.6 | 100.0     |
| 0°-180°   | 23354.6 | 100.0     |

**Coefficient of Utilization**



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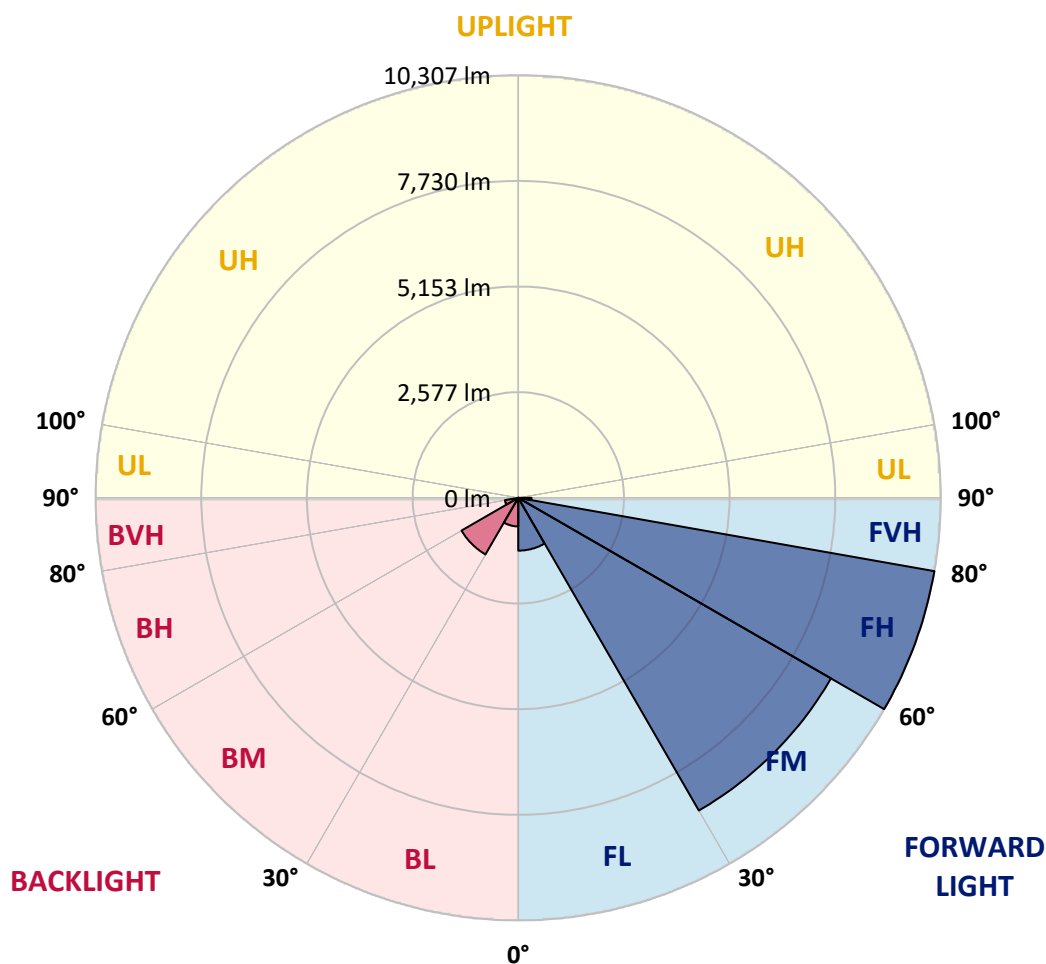
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1287.4  | 5.5       |                         |      |          |
| FM   | (30°-60°)   | 8807.0  | 37.7      |                         |      |          |
| FH   | (60°-80°)   | 10306.7 | 44.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 325.0   | 1.4       |                         |      | G3/500   |
| BL   | (0°-30°)    | 698.4   | 3.0       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1595.7  | 6.8       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 329.8   | 1.4       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 4.5     | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 34°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3384.9  | 3384.9  | 3384.9  | 3384.9  | 3384.9  | 3384.9  | 3384.9  | 3384.9  | 3384.9  | 3384.9  | 3384.9  |
| 2.5°  | 3234.3  | 3261.7  | 3266.8  | 3275.4  | 3275.4  | 3285.6  | 3302.8  | 3326.6  | 3366.0  | 3386.6  | 3400.2  |
| 5°    | 2981.0  | 3001.5  | 3027.2  | 3047.7  | 3087.1  | 3092.2  | 3158.9  | 3224.0  | 3314.7  | 3383.1  | 3431.1  |
| 7.5°  | 2726.0  | 2750.0  | 2784.2  | 2833.8  | 2885.2  | 2900.5  | 3001.5  | 3111.1  | 3254.8  | 3383.1  | 3463.6  |
| 10°   | 2546.3  | 2548.0  | 2578.9  | 2628.5  | 2710.6  | 2729.5  | 2852.7  | 3008.4  | 3188.1  | 3362.6  | 3494.4  |
| 12.5° | 2445.3  | 2457.3  | 2471.1  | 2508.7  | 2587.4  | 2599.4  | 2731.2  | 2914.3  | 3121.3  | 3350.6  | 3530.3  |
| 15°   | 2445.3  | 2454.0  | 2462.5  | 2481.3  | 2544.7  | 2554.9  | 2671.3  | 2854.4  | 3087.1  | 3355.7  | 3588.5  |
| 17.5° | 2471.1  | 2484.7  | 2477.9  | 2500.2  | 2566.9  | 2573.8  | 2676.4  | 2837.3  | 3085.4  | 3388.2  | 3677.5  |
| 20°   | 2532.7  | 2542.9  | 2529.3  | 2542.9  | 2609.6  | 2623.4  | 2729.5  | 2869.8  | 3114.5  | 3444.7  | 3788.7  |
| 22.5° | 2630.3  | 2635.4  | 2602.8  | 2613.1  | 2681.5  | 2698.6  | 2821.8  | 2962.1  | 3184.7  | 3535.4  | 3937.6  |
| 25°   | 2753.5  | 2763.7  | 2714.1  | 2726.0  | 2791.1  | 2811.6  | 2953.6  | 3100.8  | 3295.9  | 3660.4  | 4127.6  |
| 27.5° | 2895.4  | 2900.5  | 2857.8  | 2856.1  | 2939.9  | 2969.0  | 3112.8  | 3271.9  | 3444.7  | 3817.8  | 4367.1  |
| 30°   | 3058.0  | 3073.5  | 3032.4  | 3025.5  | 3131.6  | 3155.6  | 3297.6  | 3482.4  | 3663.8  | 4054.0  | 4707.6  |
| 32.5° | 3186.3  | 3198.3  | 3174.4  | 3191.5  | 3299.3  | 3318.1  | 3521.8  | 3780.2  | 4007.7  | 4389.4  | 5171.4  |
| 35°   | 3371.2  | 3378.0  | 3323.3  | 3354.1  | 3477.3  | 3525.2  | 3828.1  | 4197.7  | 4440.7  | 4810.3  | 5777.2  |
| 37.5° | 4040.2  | 4040.2  | 3807.6  | 3655.3  | 3773.3  | 3816.1  | 4247.3  | 4723.1  | 4974.6  | 5375.1  | 6540.4  |
| 40°   | 4966.0  | 4950.6  | 4610.1  | 4298.6  | 4283.3  | 4367.1  | 4844.6  | 5385.3  | 5664.3  | 6052.7  | 7399.5  |
| 42.5° | 5953.5  | 5929.5  | 5465.7  | 5157.7  | 5106.3  | 5135.5  | 5534.2  | 6201.6  | 6485.7  | 6879.3  | 8323.5  |
| 45°   | 6829.7  | 6822.8  | 6398.4  | 5984.3  | 5891.9  | 5984.3  | 6395.0  | 7156.4  | 7360.1  | 7774.2  | 9245.9  |
| 47.5° | 7563.8  | 7563.8  | 7254.0  | 6983.6  | 6935.8  | 6990.5  | 7560.3  | 8215.8  | 8196.9  | 8727.5  | 10144.3 |
| 50°   | 8409.1  | 8402.2  | 8108.0  | 7991.6  | 8041.2  | 8118.2  | 8901.9  | 9331.5  | 9062.8  | 9663.5  | 10946.9 |
| 52.5° | 9001.2  | 9042.2  | 8941.3  | 8922.5  | 9175.8  | 9309.3  | 10264.1 | 10423.2 | 9838.1  | 10551.7 | 11547.5 |
| 55°   | 9470.1  | 9518.0  | 9634.4  | 9766.2  | 10253.9 | 10428.5 | 11583.5 | 11458.6 | 10486.6 | 11321.6 | 11893.3 |
| 57.5° | 10134.1 | 10065.6 | 10245.3 | 10505.4 | 11294.3 | 11504.8 | 12861.8 | 12435.7 | 11008.5 | 11946.3 | 11930.9 |
| 60°   | 10940.0 | 10950.4 | 10981.1 | 11309.7 | 12333.0 | 12603.4 | 14121.3 | 13359.7 | 11343.9 | 12329.6 | 11513.3 |
| 62.5° | 11908.7 | 11924.0 | 11987.4 | 12492.2 | 13727.7 | 13982.6 | 15462.9 | 14116.2 | 11497.9 | 12221.8 | 10435.2 |
| 65°   | 11841.9 | 11906.9 | 12613.6 | 14340.4 | 15847.9 | 16099.5 | 17028.7 | 14646.6 | 11265.2 | 11236.2 | 8496.4  |
| 67.5° | 10787.8 | 10893.9 | 12076.3 | 16547.9 | 19044.6 | 19325.2 | 18921.4 | 14751.1 | 10260.7 | 8737.7  | 5542.8  |
| 70°   | 9405.1  | 9442.7  | 10864.8 | 18532.9 | 22746.1 | 23030.1 | 20615.5 | 13602.8 | 7786.2  | 4873.7  | 2483.1  |
| 72.5° | 7344.7  | 7353.2  | 9021.7  | 18993.2 | 24755.1 | 24770.5 | 19285.9 | 10098.1 | 4187.4  | 1872.2  | 862.4   |
| 75°   | 5246.7  | 5195.4  | 6042.5  | 15403.0 | 21779.2 | 21953.8 | 14458.4 | 4736.7  | 1600.0  | 884.7   | 429.5   |
| 77.5° | 2813.3  | 2869.8  | 3419.1  | 9134.7  | 15045.4 | 15343.1 | 7888.9  | 1365.6  | 814.6   | 602.4   | 284.0   |
| 80°   | 869.3   | 917.3   | 1401.5  | 4182.3  | 8522.1  | 8701.7  | 2924.5  | 607.5   | 568.2   | 429.5   | 186.5   |
| 82.5° | 273.8   | 284.0   | 653.7   | 1757.5  | 3537.2  | 3619.3  | 847.1   | 344.0   | 388.5   | 284.0   | 109.5   |
| 85°   | 78.7    | 80.5    | 290.9   | 655.4   | 874.4   | 891.5   | 237.9   | 133.5   | 222.4   | 176.3   | 56.5    |
| 87.5° | 8.5     | 27.4    | 109.5   | 109.5   | 77.0    | 75.3    | 25.6    | 29.1    | 63.3    | 22.2    | 10.2    |
| 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°    | 3384.9 | 3384.9 | 3384.9 | 3384.9 | 3384.9 | 3384.9 | 3384.9 | 3384.9 | 3384.9 | 3384.9 | 3384.9 |
| 2.5°  | 3391.7 | 3393.5 | 3371.2 | 3333.5 | 3292.5 | 3258.3 | 3215.4 | 3181.2 | 3157.3 | 3150.4 | 3162.4 |
| 5°    | 3415.7 | 3403.7 | 3340.4 | 3225.7 | 3088.8 | 2970.8 | 2838.9 | 2734.6 | 2666.1 | 2637.0 | 2647.3 |
| 7.5°  | 3451.6 | 3417.4 | 3278.8 | 3052.9 | 2791.1 | 2558.3 | 2322.1 | 2139.1 | 2022.7 | 1964.5 | 1973.1 |
| 10°   | 3482.4 | 3414.0 | 3176.1 | 2803.1 | 2402.6 | 2050.1 | 1731.8 | 1511.1 | 1387.8 | 1329.6 | 1331.4 |
| 12.5° | 3511.5 | 3412.2 | 3042.6 | 2506.9 | 1964.5 | 1533.3 | 1237.3 | 1127.7 | 1093.5 | 1081.5 | 1078.1 |
| 15°   | 3566.3 | 3417.4 | 2874.9 | 2168.2 | 1528.2 | 1158.6 | 1050.7 | 1049.0 | 1055.9 | 1052.5 | 1050.7 |
| 17.5° | 3641.5 | 3422.5 | 2685.0 | 1808.8 | 1179.1 | 1021.6 | 1016.5 | 1031.9 | 1042.1 | 1037.0 | 1035.4 |
| 20°   | 3739.1 | 3443.1 | 2483.1 | 1452.8 | 1013.1 | 987.4  | 999.4  | 1013.1 | 1021.6 | 1013.1 | 1011.4 |
| 22.5° | 3876.0 | 3479.0 | 2262.3 | 1167.1 | 960.0  | 966.9  | 977.1  | 992.5  | 1001.1 | 989.1  | 987.4  |
| 25°   | 4043.7 | 3535.4 | 2045.0 | 1014.7 | 934.4  | 942.9  | 958.3  | 975.4  | 985.6  | 973.7  | 972.0  |
| 27.5° | 4261.0 | 3626.1 | 1844.7 | 980.5  | 908.7  | 913.8  | 936.0  | 961.8  | 975.4  | 960.0  | 960.0  |
| 30°   | 4575.9 | 3775.1 | 1671.9 | 996.0  | 893.3  | 881.3  | 912.1  | 948.0  | 963.4  | 949.8  | 948.0  |
| 32.5° | 4993.5 | 3985.5 | 1565.8 | 1019.9 | 886.4  | 843.7  | 872.8  | 918.9  | 944.6  | 936.0  | 936.0  |
| 35°   | 5541.0 | 4305.5 | 1524.7 | 1047.2 | 881.3  | 804.3  | 824.8  | 874.4  | 918.9  | 927.5  | 927.5  |
| 37.5° | 6205.0 | 4750.5 | 1536.7 | 1059.2 | 865.9  | 771.8  | 782.1  | 824.8  | 883.0  | 910.4  | 917.3  |
| 40°   | 6959.6 | 5269.0 | 1605.1 | 1047.2 | 848.8  | 744.4  | 746.1  | 778.6  | 829.9  | 871.0  | 884.7  |
| 42.5° | 7738.3 | 5874.8 | 1731.8 | 1002.8 | 833.4  | 720.5  | 715.3  | 737.6  | 771.8  | 800.8  | 812.8  |
| 45°   | 8479.3 | 6497.7 | 1856.7 | 941.2  | 814.6  | 696.5  | 684.5  | 693.1  | 699.9  | 711.9  | 718.7  |
| 47.5° | 9126.1 | 6935.8 | 1820.8 | 884.7  | 788.8  | 669.1  | 648.5  | 645.1  | 624.6  | 622.9  | 621.2  |
| 50°   | 9572.8 | 7031.6 | 1617.1 | 828.2  | 751.2  | 638.3  | 605.8  | 585.3  | 549.3  | 532.2  | 533.9  |
| 52.5° | 9714.8 | 6653.4 | 1321.1 | 771.8  | 689.6  | 597.3  | 551.0  | 518.5  | 474.1  | 458.6  | 456.9  |
| 55°   | 9526.6 | 5912.4 | 1055.9 | 703.4  | 604.0  | 542.4  | 491.2  | 448.3  | 412.5  | 393.6  | 393.6  |
| 57.5° | 9066.2 | 4969.5 | 835.1  | 622.9  | 513.4  | 480.8  | 429.5  | 386.7  | 356.0  | 337.1  | 333.7  |
| 60°   | 8303.0 | 3946.1 | 660.5  | 527.1  | 438.1  | 414.1  | 361.1  | 333.7  | 306.3  | 284.0  | 278.9  |
| 62.5° | 7144.5 | 2816.7 | 518.5  | 417.6  | 366.2  | 338.9  | 308.0  | 287.5  | 255.0  | 224.2  | 219.0  |
| 65°   | 5575.3 | 1723.2 | 400.5  | 306.3  | 294.4  | 280.6  | 261.8  | 243.0  | 203.7  | 172.8  | 167.7  |
| 67.5° | 3516.7 | 816.3  | 285.8  | 231.0  | 232.8  | 225.9  | 217.3  | 201.9  | 172.8  | 145.4  | 142.1  |
| 70°   | 1548.7 | 395.3  | 188.2  | 176.3  | 172.8  | 172.8  | 179.7  | 174.6  | 147.2  | 121.5  | 116.3  |
| 72.5° | 527.1  | 212.2  | 140.3  | 133.5  | 124.9  | 123.2  | 150.6  | 145.4  | 118.1  | 94.1   | 89.0   |
| 75°   | 275.5  | 142.1  | 102.7  | 95.8   | 75.3   | 90.7   | 119.8  | 113.0  | 83.8   | 61.6   | 56.5   |
| 77.5° | 179.7  | 101.0  | 70.2   | 61.6   | 42.7   | 59.9   | 89.0   | 78.7   | 49.6   | 30.9   | 27.4   |
| 80°   | 113.0  | 66.7   | 41.1   | 29.1   | 20.5   | 32.5   | 47.9   | 34.2   | 18.9   | 6.9    | 5.1    |
| 82.5° | 59.9   | 34.2   | 15.4   | 10.2   | 8.5    | 10.2   | 12.0   | 8.5    | 3.4    | 0.0    | 0.0    |
| 85°   | 24.0   | 12.0   | 5.1    | 3.4    | 1.7    | 0.0    | 3.4    | 1.7    | 0.0    | 0.0    | 0.0    |
| 87.5° | 8.5    | 1.7    | 0.0    | 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)