

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: STREETWORKS

Report Number: P963021

Luminaire Tested: **NVN-SB2D-740-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2D-740-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22364.5 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

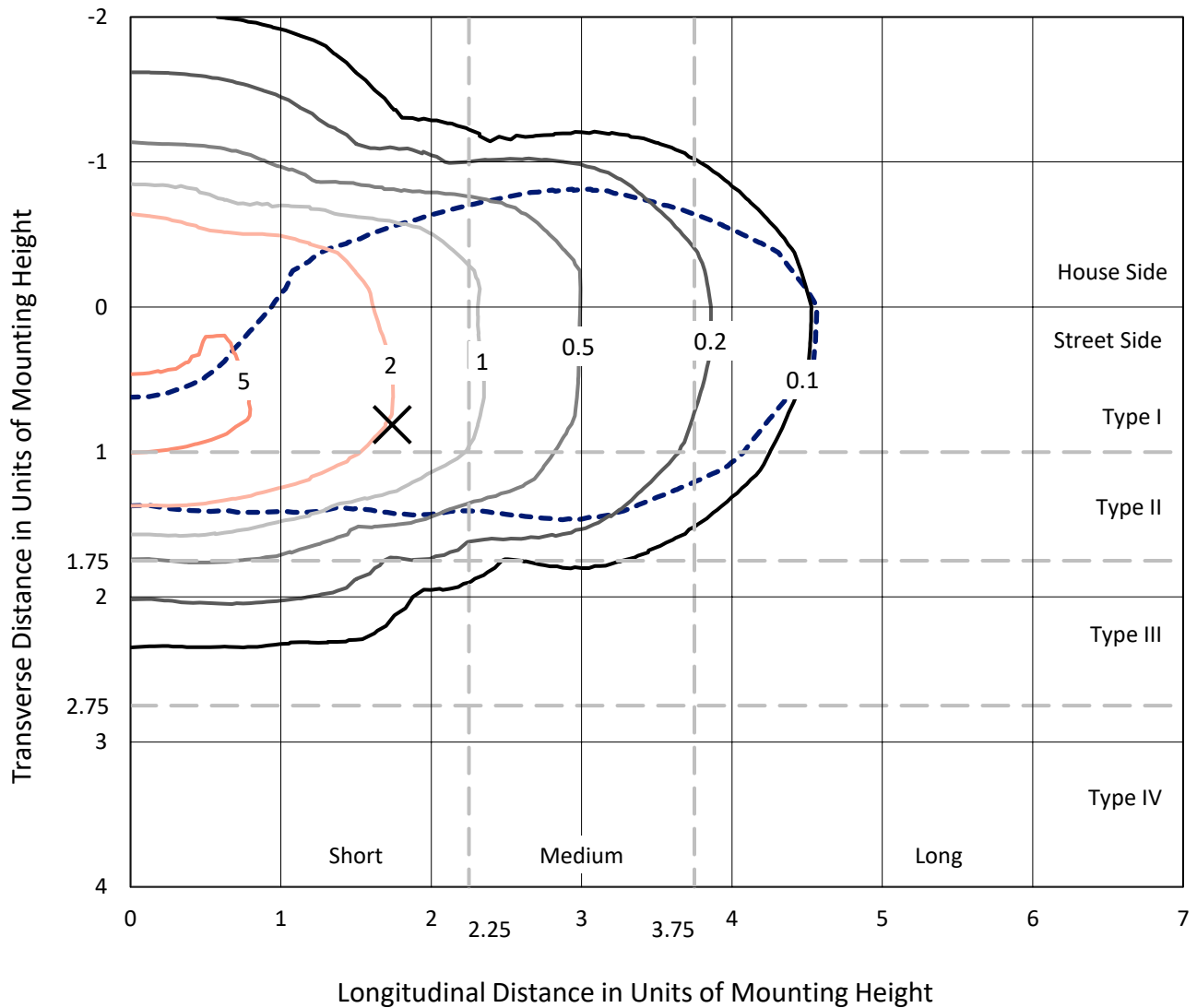
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

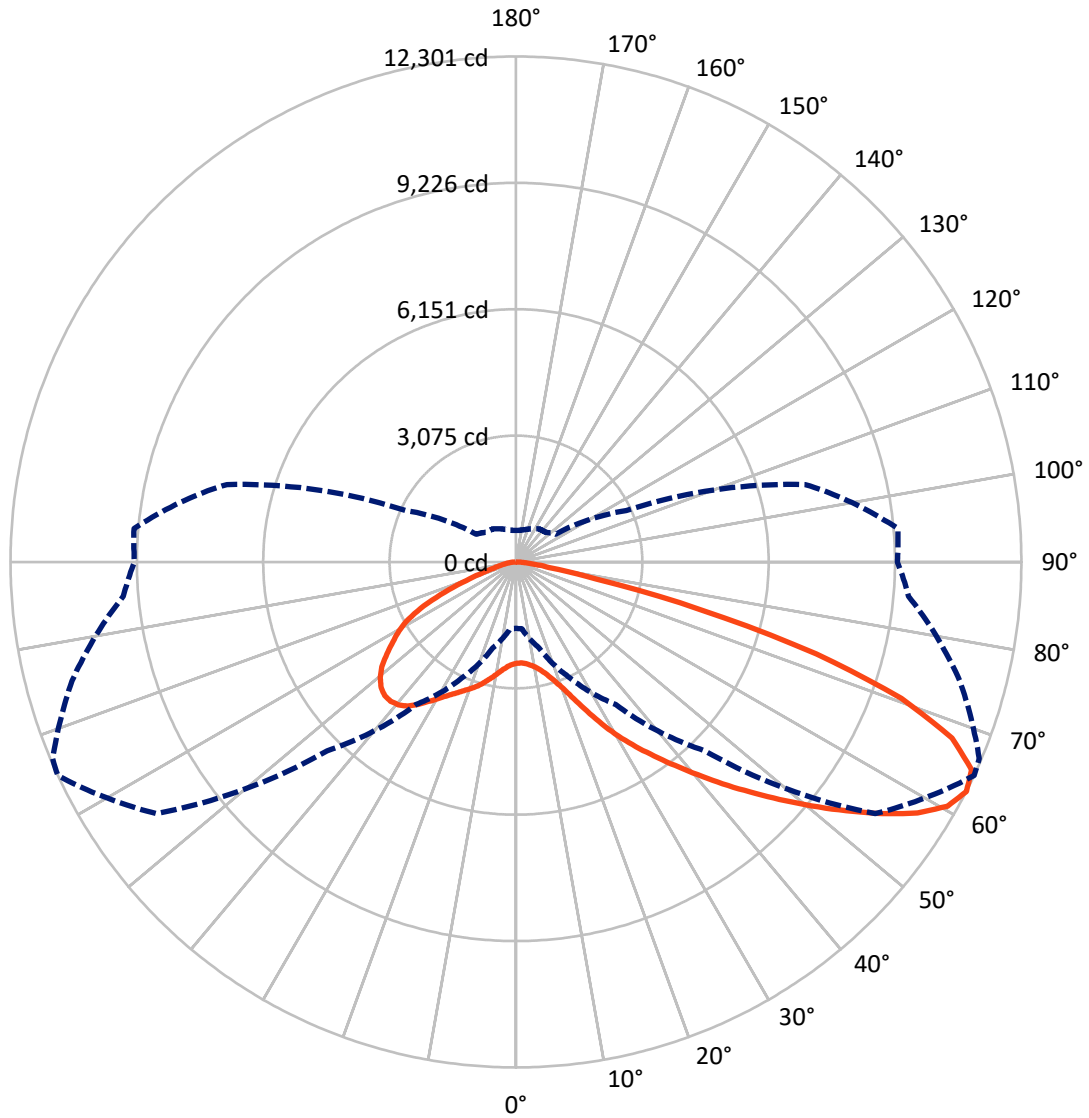
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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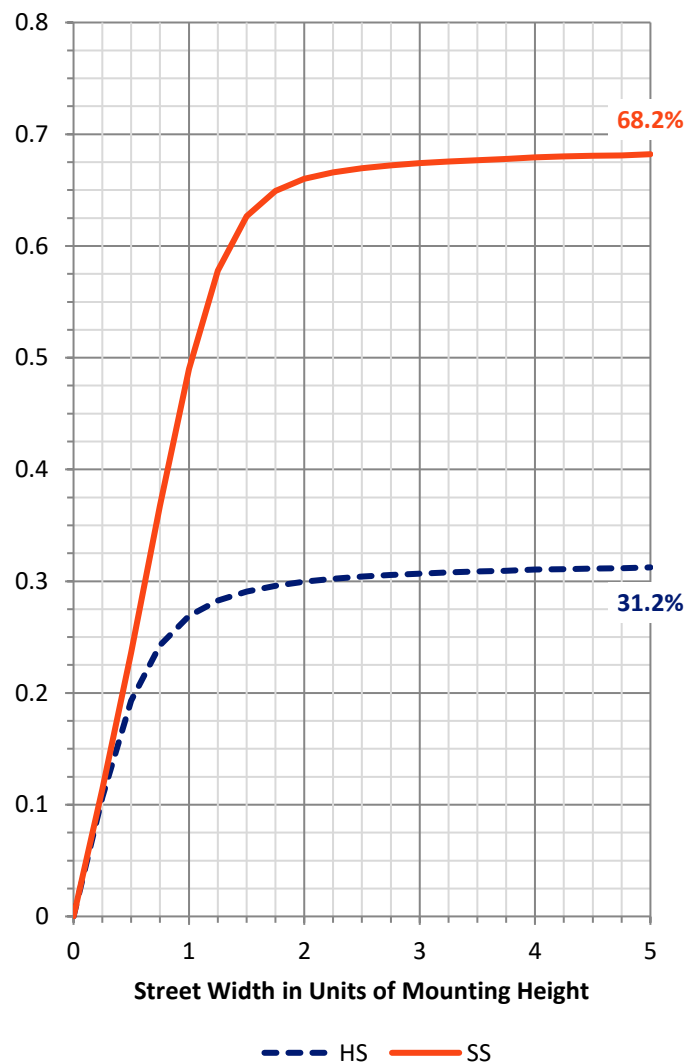
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7057.3 | 0.0 | 7057.3 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 15307.2 | 0.0 | 15307.2 |
| | % Fixture | 68.4 | 0.0 | 68.4 |
| Total | Lumens | 22364.5 | 0.0 | 22364.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 245.7 | 1.1 |
| 10°-20° | 833.2 | 3.7 |
| 20°-30° | 1689.4 | 7.6 |
| 30°-40° | 2923.5 | 13.1 |
| 40°-50° | 4424.2 | 19.8 |
| 50°-60° | 5187.0 | 23.2 |
| 60°-70° | 4348.7 | 19.4 |
| 70°-80° | 2400.8 | 10.7 |
| 80°-90° | 311.9 | 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° | 22364.5 | 100.0 |
| 0°-180° | 22364.5 | 100.0 |

Coefficient of Utilization



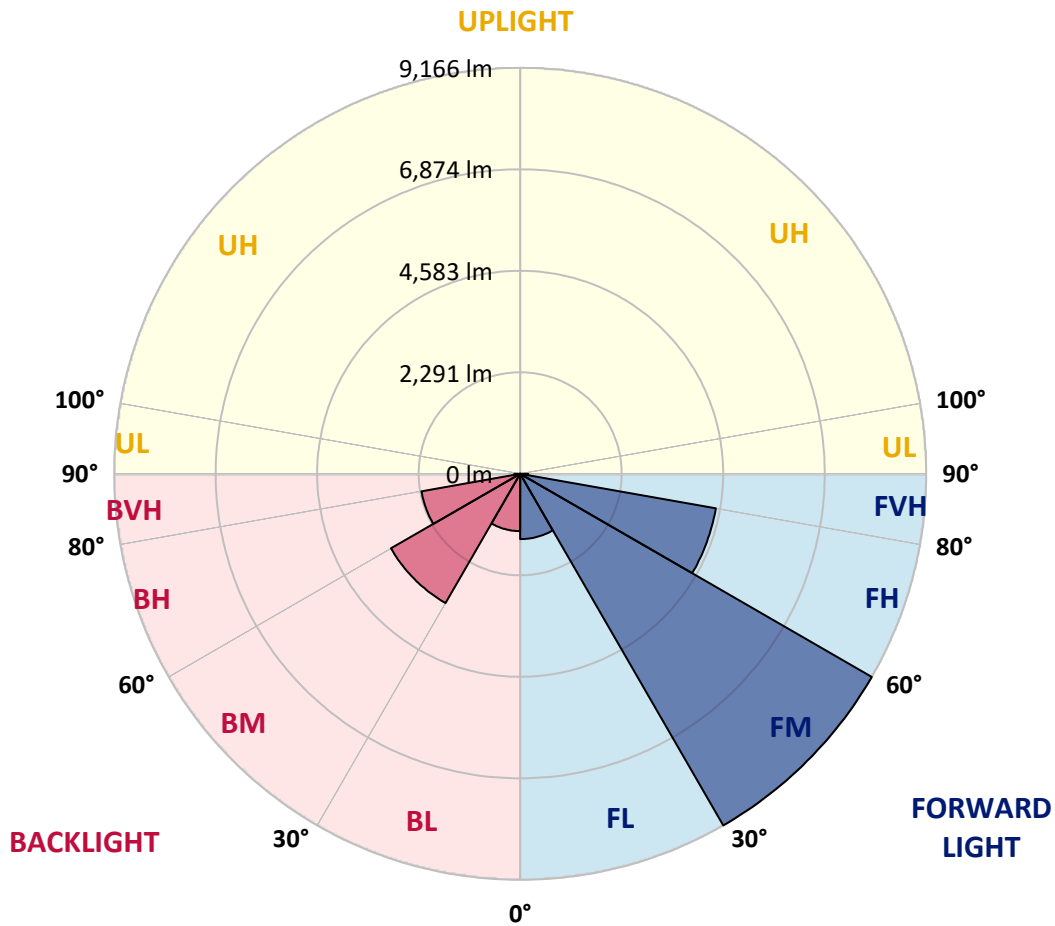
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1474.1 | 6.6 | | | |
| FM (30°-60°) | 9165.7 | 41.0 | | | |
| FH (60°-80°) | 4485.7 | 20.1 | | | G2/5000 |
| FVH (80°-90°) | 181.8 | 0.8 | | | G2/225 |
| BL (0°-30°) | 1294.2 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 3369.0 | 15.1 | B3/5000 | | |
| BH (60°-80°) | 2263.9 | 10.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 130.1 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 |
| 2.5° | 2448.2 | 2441.2 | 2447.1 | 2447.1 | 2449.3 | 2448.2 | 2456.3 | 2458.7 | 2462.2 | 2469.1 | 2469.1 |
| 5° | 2423.8 | 2422.7 | 2433.1 | 2442.5 | 2451.7 | 2459.8 | 2470.2 | 2485.3 | 2487.7 | 2495.8 | 2506.2 |
| 7.5° | 2415.7 | 2408.8 | 2425.0 | 2436.6 | 2458.7 | 2478.3 | 2506.2 | 2531.8 | 2542.2 | 2545.7 | 2565.4 |
| 10° | 2478.3 | 2466.8 | 2481.8 | 2488.8 | 2507.4 | 2527.1 | 2559.6 | 2600.2 | 2611.8 | 2625.7 | 2647.8 |
| 12.5° | 2585.2 | 2572.3 | 2594.4 | 2604.8 | 2622.3 | 2639.7 | 2661.7 | 2701.2 | 2706.9 | 2732.5 | 2753.4 |
| 15° | 2731.3 | 2716.2 | 2730.2 | 2742.9 | 2771.9 | 2788.2 | 2810.2 | 2848.5 | 2848.5 | 2868.3 | 2883.3 |
| 17.5° | 2929.8 | 2910.0 | 2920.4 | 2925.1 | 2943.7 | 2968.0 | 3005.2 | 3038.8 | 3056.2 | 3049.3 | 3028.4 |
| 20° | 3225.6 | 3201.3 | 3201.3 | 3178.0 | 3171.0 | 3190.8 | 3239.5 | 3285.9 | 3304.5 | 3268.5 | 3217.5 |
| 22.5° | 3670.0 | 3635.2 | 3615.5 | 3536.6 | 3505.3 | 3507.6 | 3556.3 | 3613.1 | 3628.3 | 3564.4 | 3449.5 |
| 25° | 4235.1 | 4180.6 | 4153.8 | 4037.8 | 3967.1 | 3905.6 | 3943.9 | 4017.0 | 4037.8 | 3959.0 | 3773.3 |
| 27.5° | 4800.2 | 4803.7 | 4778.1 | 4638.8 | 4521.7 | 4409.1 | 4389.4 | 4466.0 | 4488.1 | 4398.7 | 4169.0 |
| 30° | 5592.6 | 5510.2 | 5461.5 | 5294.4 | 5127.4 | 4969.5 | 4888.3 | 4919.7 | 4925.4 | 4818.7 | 4551.8 |
| 32.5° | 6276.1 | 6255.2 | 6150.7 | 6004.6 | 5789.9 | 5542.7 | 5407.0 | 5357.1 | 5347.8 | 5195.8 | 4879.0 |
| 35° | 7054.6 | 7043.0 | 6932.8 | 6758.7 | 6526.7 | 6183.2 | 5938.4 | 5795.7 | 5784.1 | 5570.6 | 5202.8 |
| 37.5° | 7846.0 | 7846.0 | 7738.0 | 7547.7 | 7307.5 | 6878.3 | 6505.8 | 6279.6 | 6242.4 | 5964.0 | 5532.3 |
| 40° | 8477.2 | 8438.8 | 8458.5 | 8378.5 | 8103.5 | 7647.5 | 7135.8 | 6807.4 | 6757.5 | 6423.4 | 5882.7 |
| 42.5° | 8835.6 | 8822.9 | 8941.3 | 9030.6 | 8918.0 | 8553.7 | 7829.7 | 7379.5 | 7309.9 | 6929.3 | 6286.5 |
| 45° | 8915.8 | 8901.8 | 9113.0 | 9440.1 | 9598.0 | 9448.2 | 8583.9 | 7981.7 | 7897.0 | 7458.4 | 6719.3 |
| 47.5° | 8731.3 | 8703.4 | 9013.1 | 9529.5 | 10035.4 | 10298.8 | 9400.7 | 8634.9 | 8511.9 | 7973.6 | 7163.6 |
| 50° | 8176.6 | 8149.9 | 8618.7 | 9304.4 | 10182.8 | 10876.6 | 10287.2 | 9327.6 | 9139.6 | 8525.8 | 7612.7 |
| 52.5° | 6971.0 | 6983.8 | 7718.2 | 8660.4 | 9989.0 | 11236.3 | 11050.6 | 10057.4 | 9831.2 | 9090.9 | 8033.8 |
| 55° | 5430.1 | 5458.0 | 6360.7 | 7398.0 | 9213.9 | 11181.7 | 11571.6 | 10809.3 | 10584.3 | 9622.3 | 8469.0 |
| 57.5° | 3888.1 | 4011.1 | 4857.0 | 5883.9 | 7725.2 | 10317.3 | 11685.3 | 11524.1 | 11306.0 | 10202.4 | 8894.8 |
| 60° | 2520.2 | 2542.2 | 3412.4 | 4447.4 | 5882.7 | 8781.1 | 11454.5 | 12065.9 | 11895.3 | 10794.3 | 9251.0 |
| 62.5° | 1615.1 | 1630.3 | 2160.5 | 3110.8 | 4234.0 | 6496.4 | 10677.0 | 12301.4 | 12249.3 | 11185.2 | 9593.3 |
| 65° | 1186.9 | 1175.4 | 1451.5 | 2056.0 | 2852.0 | 4006.5 | 9167.5 | 12187.8 | 12291.0 | 11430.1 | 9876.4 |
| 67.5° | 990.9 | 974.7 | 1110.4 | 1423.7 | 2101.2 | 2275.3 | 6783.0 | 11448.6 | 11826.9 | 11402.2 | 10084.2 |
| 70° | 902.7 | 888.8 | 971.2 | 1057.0 | 1639.5 | 1523.5 | 3419.4 | 9953.1 | 10535.5 | 11085.5 | 10050.4 |
| 72.5° | 764.6 | 740.3 | 852.8 | 938.7 | 1275.2 | 1168.4 | 1413.3 | 7645.2 | 8355.3 | 10070.2 | 9577.1 |
| 75° | 592.9 | 576.7 | 673.0 | 826.2 | 958.4 | 911.9 | 893.4 | 4642.3 | 5417.4 | 7787.9 | 8378.5 |
| 77.5° | 470.0 | 447.9 | 536.1 | 644.0 | 862.1 | 688.1 | 650.9 | 1999.2 | 2767.3 | 4971.9 | 6269.1 |
| 80° | 353.9 | 334.2 | 407.2 | 509.3 | 662.6 | 518.6 | 421.2 | 815.7 | 1043.1 | 2519.0 | 3152.5 |
| 82.5° | 251.7 | 234.4 | 284.2 | 373.6 | 445.6 | 465.2 | 258.7 | 457.2 | 514.0 | 971.2 | 704.3 |
| 85° | 161.2 | 150.9 | 190.2 | 234.4 | 283.1 | 299.4 | 157.8 | 239.0 | 262.2 | 400.3 | 293.6 |
| 87.5° | 88.1 | 72.0 | 102.1 | 109.1 | 131.1 | 119.5 | 75.4 | 87.0 | 94.0 | 145.0 | 124.1 |
| 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° | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 |
| 2.5° | 2473.7 | 2477.2 | 2488.8 | 2492.3 | 2500.5 | 2510.8 | 2517.8 | 2524.8 | 2524.8 | 2531.8 | 2531.8 |
| 5° | 2507.4 | 2515.6 | 2539.8 | 2552.7 | 2573.6 | 2594.4 | 2607.2 | 2622.3 | 2631.6 | 2636.2 | 2638.6 |
| 7.5° | 2572.3 | 2585.2 | 2619.9 | 2642.0 | 2677.9 | 2706.9 | 2726.7 | 2747.6 | 2752.2 | 2764.9 | 2760.3 |
| 10° | 2660.6 | 2675.7 | 2715.1 | 2756.8 | 2799.8 | 2835.8 | 2854.3 | 2869.4 | 2875.2 | 2877.5 | 2871.7 |
| 12.5° | 2761.6 | 2783.6 | 2834.6 | 2885.7 | 2930.9 | 2962.2 | 2966.9 | 2963.4 | 2947.2 | 2933.2 | 2933.2 |
| 15° | 2885.7 | 2905.4 | 2962.2 | 3017.9 | 3062.0 | 3067.8 | 3038.8 | 3020.3 | 3000.5 | 2997.0 | 2997.0 |
| 17.5° | 3034.2 | 3044.7 | 3096.8 | 3151.4 | 3154.8 | 3135.2 | 3092.2 | 3074.8 | 3056.2 | 3043.4 | 3044.7 |
| 20° | 3207.0 | 3203.5 | 3240.7 | 3263.9 | 3239.5 | 3179.2 | 3114.3 | 3085.2 | 3066.7 | 3051.5 | 3052.8 |
| 22.5° | 3413.6 | 3386.9 | 3382.3 | 3376.5 | 3311.5 | 3185.0 | 3096.8 | 3059.7 | 3030.7 | 3009.8 | 3016.8 |
| 25° | 3714.1 | 3612.0 | 3541.3 | 3501.8 | 3355.5 | 3153.7 | 3041.2 | 2958.8 | 2904.2 | 2868.3 | 2882.2 |
| 27.5° | 4090.1 | 3918.3 | 3739.6 | 3643.4 | 3355.5 | 3089.9 | 2906.5 | 2773.1 | 2683.8 | 2646.7 | 2665.2 |
| 30° | 4448.6 | 4268.7 | 4005.3 | 3813.9 | 3347.4 | 2985.4 | 2689.6 | 2503.9 | 2399.5 | 2362.3 | 2384.5 |
| 32.5° | 4754.9 | 4558.8 | 4287.3 | 4000.7 | 3327.8 | 2816.1 | 2420.3 | 2215.0 | 2114.1 | 2070.0 | 2092.0 |
| 35° | 5039.2 | 4830.3 | 4570.4 | 4206.1 | 3275.5 | 2567.7 | 2124.5 | 1967.9 | 1855.4 | 1784.5 | 1807.7 |
| 37.5° | 5330.4 | 5082.1 | 4838.4 | 4391.7 | 3181.5 | 2277.7 | 1897.1 | 1763.6 | 1631.4 | 1536.3 | 1561.8 |
| 40° | 5647.1 | 5350.1 | 5125.0 | 4501.9 | 3027.2 | 2001.5 | 1720.7 | 1598.9 | 1458.5 | 1357.5 | 1377.3 |
| 42.5° | 6017.3 | 5671.5 | 5444.1 | 4558.8 | 2816.1 | 1805.4 | 1605.9 | 1486.4 | 1354.0 | 1271.7 | 1287.9 |
| 45° | 6403.7 | 6025.5 | 5735.4 | 4557.7 | 2580.5 | 1713.8 | 1568.8 | 1450.4 | 1304.2 | 1218.3 | 1232.3 |
| 47.5° | 6808.7 | 6395.6 | 5987.1 | 4483.3 | 2376.3 | 1726.5 | 1547.9 | 1372.7 | 1211.3 | 1127.8 | 1139.4 |
| 50° | 7214.8 | 6800.5 | 6230.8 | 4344.2 | 2289.2 | 1698.6 | 1470.1 | 1263.5 | 1073.3 | 997.8 | 1002.4 |
| 52.5° | 7617.4 | 7231.0 | 6440.8 | 4145.7 | 2201.1 | 1595.4 | 1370.3 | 1122.0 | 1016.4 | 964.2 | 964.2 |
| 55° | 8022.3 | 7656.7 | 6669.4 | 3856.9 | 1980.6 | 1474.8 | 1203.2 | 1068.7 | 971.2 | 923.6 | 918.9 |
| 57.5° | 8428.4 | 8148.7 | 6886.4 | 3567.9 | 1703.3 | 1326.2 | 1111.6 | 1003.7 | 925.9 | 885.3 | 878.3 |
| 60° | 8850.8 | 8711.5 | 7110.3 | 3302.2 | 1429.5 | 1135.9 | 1044.3 | 951.4 | 872.6 | 827.3 | 823.8 |
| 62.5° | 9285.9 | 9331.1 | 7285.5 | 2959.9 | 1177.7 | 1019.9 | 983.9 | 888.8 | 812.2 | 769.3 | 768.1 |
| 65° | 9724.5 | 9928.7 | 7400.4 | 2485.3 | 954.9 | 909.7 | 918.9 | 820.3 | 742.6 | 705.5 | 704.3 |
| 67.5° | 10055.1 | 10359.2 | 7367.9 | 1880.9 | 783.2 | 805.2 | 837.7 | 748.4 | 675.3 | 646.3 | 647.5 |
| 70° | 10092.3 | 10308.1 | 7047.6 | 1287.9 | 655.6 | 703.2 | 747.2 | 677.6 | 602.2 | 581.3 | 582.5 |
| 72.5° | 9598.0 | 9611.9 | 6155.3 | 841.2 | 554.6 | 617.3 | 652.1 | 605.7 | 532.6 | 511.7 | 510.6 |
| 75° | 8301.9 | 7949.2 | 4519.3 | 554.6 | 464.1 | 530.2 | 562.7 | 530.2 | 459.5 | 464.1 | 447.9 |
| 77.5° | 6289.9 | 5629.7 | 2744.1 | 394.5 | 387.6 | 445.6 | 489.6 | 466.5 | 406.1 | 456.0 | 401.5 |
| 80° | 3240.7 | 3045.8 | 1224.2 | 294.7 | 306.3 | 356.2 | 402.6 | 372.5 | 321.4 | 306.3 | 279.6 |
| 82.5° | 742.6 | 863.3 | 482.7 | 211.2 | 221.6 | 256.5 | 307.5 | 279.6 | 230.9 | 195.0 | 192.6 |
| 85° | 259.9 | 284.2 | 213.5 | 132.2 | 130.0 | 160.1 | 208.9 | 186.9 | 156.6 | 125.4 | 132.2 |
| 87.5° | 82.4 | 107.9 | 80.1 | 53.4 | 55.7 | 72.0 | 96.4 | 88.1 | 73.1 | 47.6 | 49.9 |
| 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)