

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: P963689

Luminaire Tested: **NVN-SB3A-835-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3A-835-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12718.2 lumens
Efficiency: N/A
Efficacy: 150.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

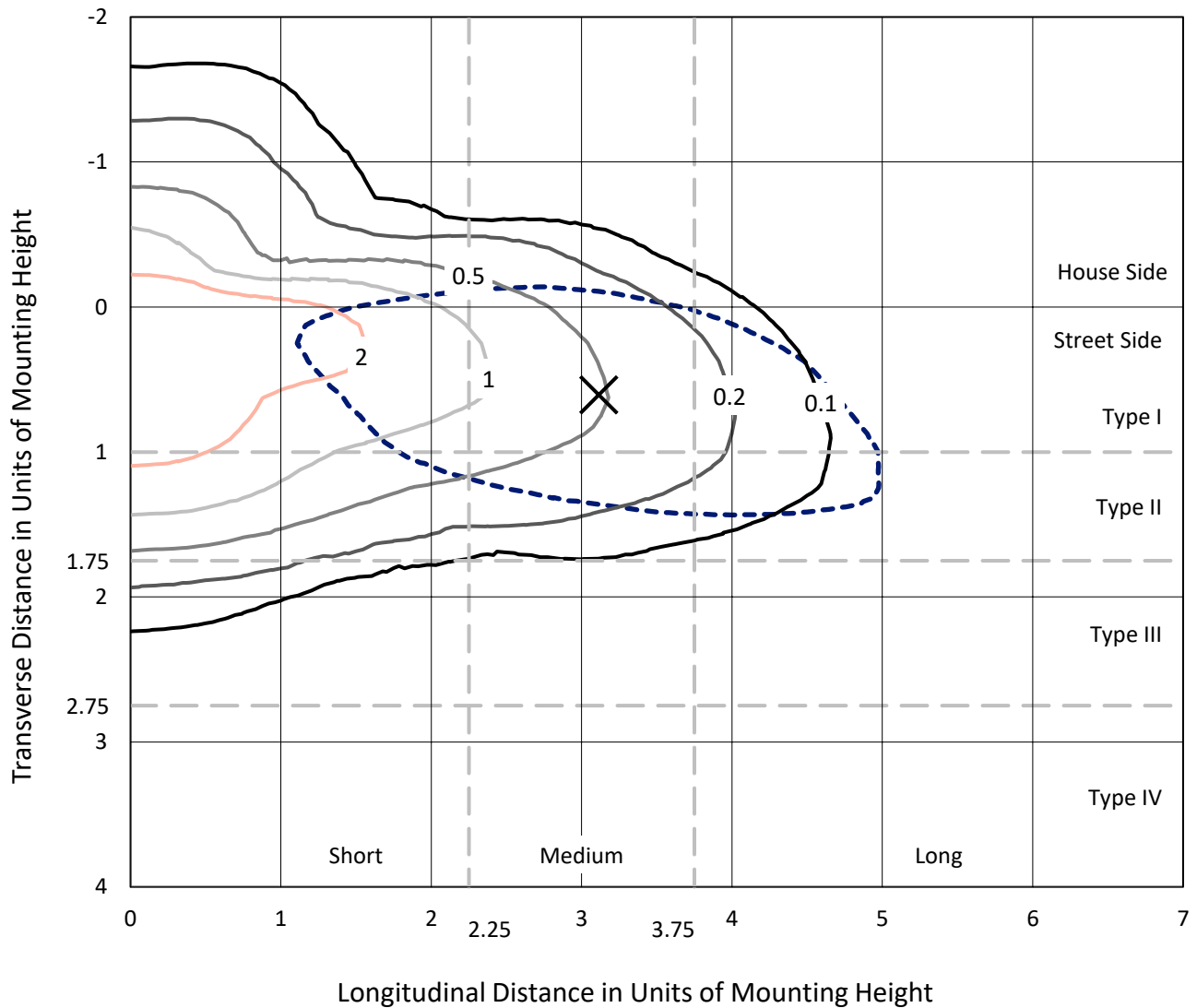
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

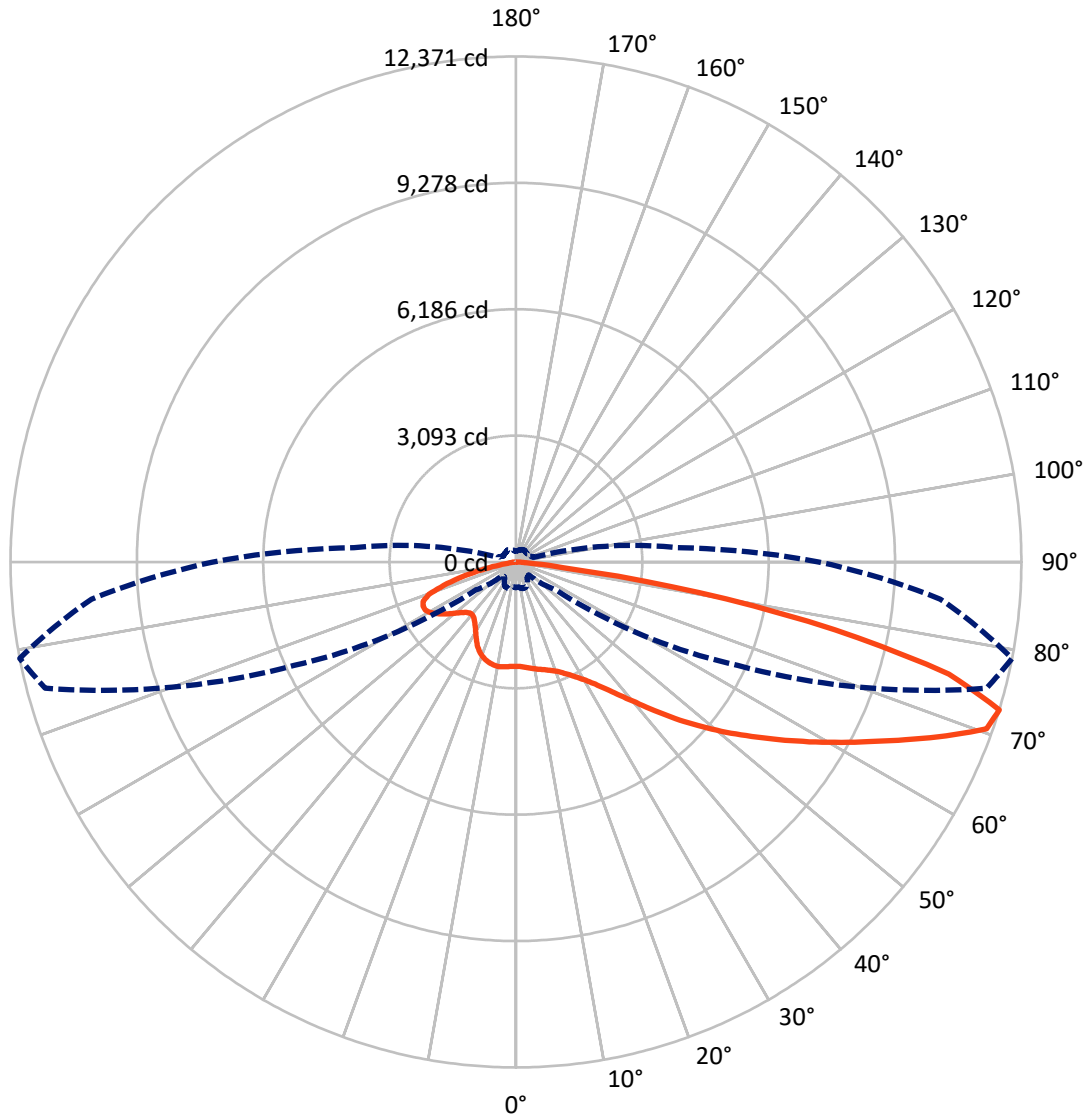
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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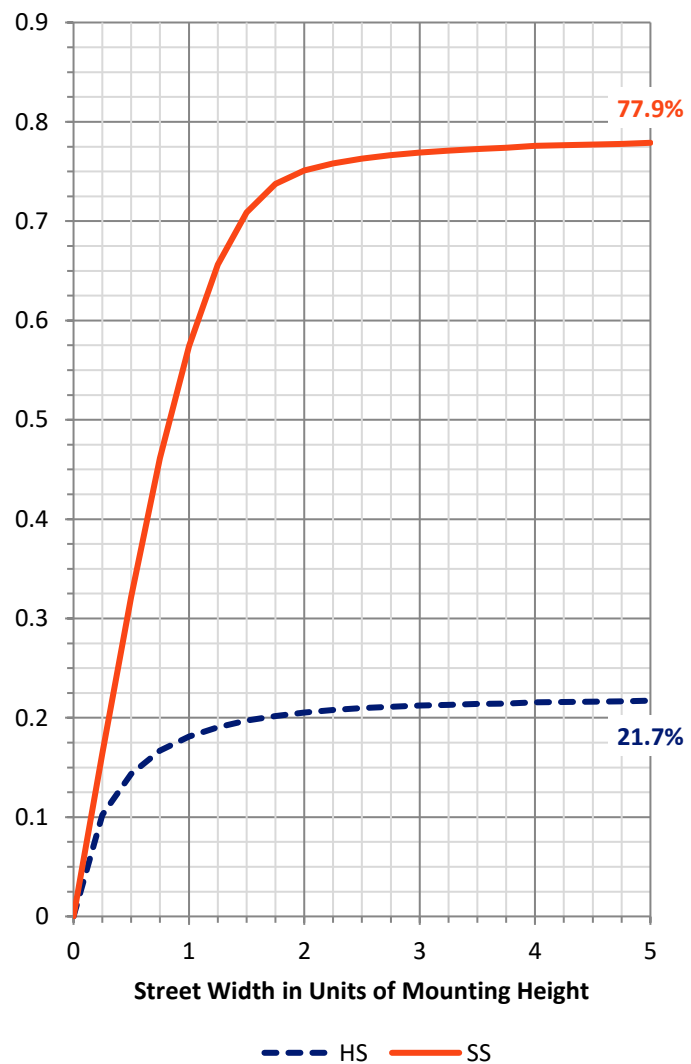
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2798.7 | 0.0 | 2798.7 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 9919.5 | 0.0 | 9919.5 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 12718.2 | 0.0 | 12718.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 231.7 | 1.8 |
| 10°-20° | 605.9 | 4.8 |
| 20°-30° | 977.7 | 7.7 |
| 30°-40° | 1467.3 | 11.5 |
| 40°-50° | 2081.5 | 16.4 |
| 50°-60° | 2628.7 | 20.7 |
| 60°-70° | 2669.8 | 21.0 |
| 70°-80° | 1819.6 | 14.3 |
| 80°-90° | 236.1 | 1.9 |
| 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° | 12718.2 | 100.0 |
| 0°-180° | 12718.2 | 100.0 |

Coefficient of Utilization



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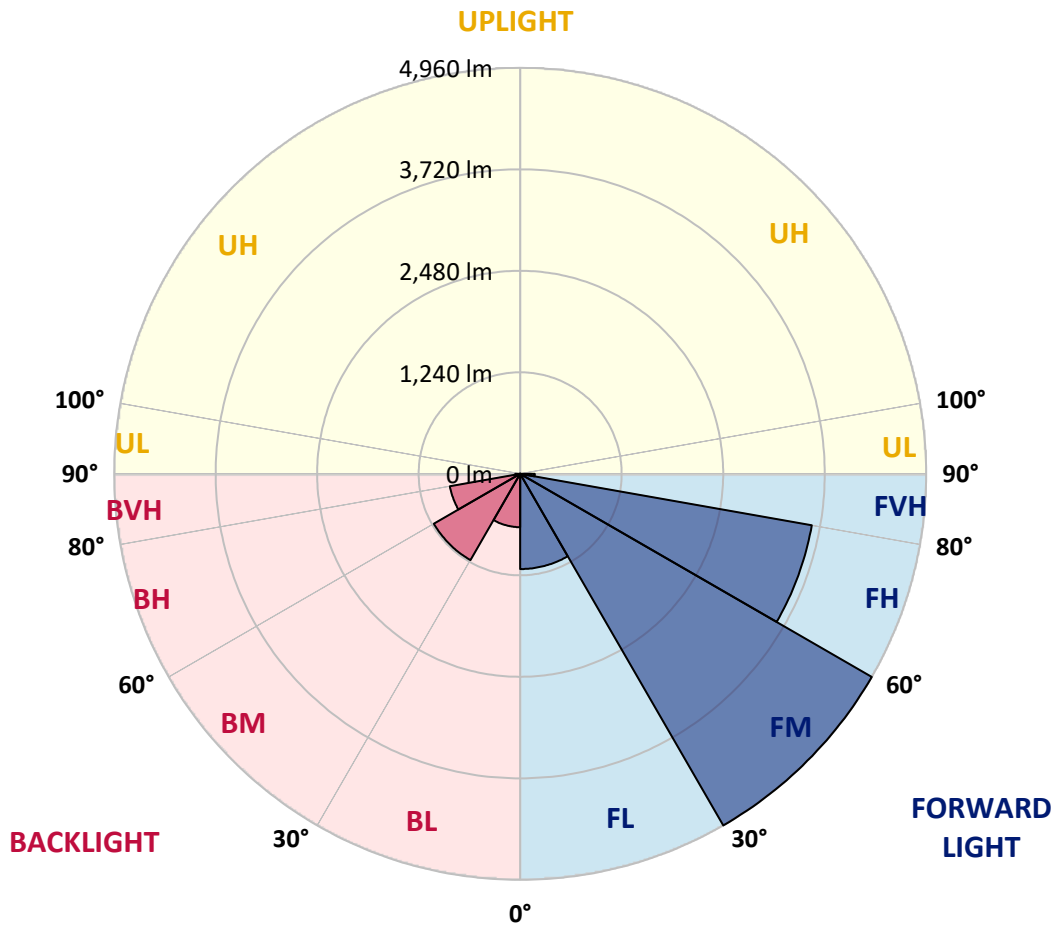
CATALOG NUMBER: NVN-SB3A-835-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1163.4 | 9.1 | | | |
| FM (30°-60°) | 4960.4 | 39.0 | | | |
| FH (60°-80°) | 3617.9 | 28.4 | | | G2/5000 |
| FVH (80°-90°) | 177.8 | 1.4 | | | G2/225 |
| BL (0°-30°) | 651.9 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 1217.1 | 9.6 | B2/2500 | | |
| BH (60°-80°) | 871.4 | 6.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 58.2 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 2553.1 | 2553.1 | 2553.1 | 2553.1 | 2553.1 | 2553.1 | 2553.1 | 2553.1 | 2553.1 | 2553.1 | 2553.1 |
| 2.5° | 2554.4 | 2542.3 | 2549.7 | 2547.0 | 2550.4 | 2554.4 | 2555.7 | 2557.8 | 2564.4 | 2563.8 | 2563.1 |
| 5° | 2549.1 | 2536.9 | 2547.0 | 2543.6 | 2552.4 | 2561.8 | 2569.9 | 2577.3 | 2588.0 | 2592.7 | 2586.0 |
| 7.5° | 2537.6 | 2529.5 | 2539.6 | 2549.7 | 2565.9 | 2579.9 | 2591.4 | 2608.2 | 2623.7 | 2626.4 | 2631.1 |
| 10° | 2471.0 | 2464.9 | 2488.5 | 2514.7 | 2559.1 | 2597.5 | 2622.4 | 2641.8 | 2658.6 | 2661.4 | 2668.1 |
| 12.5° | 2401.7 | 2394.3 | 2420.5 | 2456.2 | 2528.2 | 2597.5 | 2649.9 | 2675.5 | 2690.3 | 2699.0 | 2709.2 |
| 15° | 2390.3 | 2384.1 | 2399.0 | 2430.0 | 2489.8 | 2579.3 | 2668.8 | 2715.8 | 2728.7 | 2738.7 | 2742.8 |
| 17.5° | 2445.4 | 2434.0 | 2440.0 | 2450.8 | 2485.8 | 2562.5 | 2683.6 | 2761.7 | 2781.1 | 2791.9 | 2791.9 |
| 20° | 2573.3 | 2557.1 | 2547.6 | 2526.1 | 2520.1 | 2565.2 | 2682.2 | 2816.8 | 2842.3 | 2855.8 | 2859.1 |
| 22.5° | 2743.4 | 2732.6 | 2712.5 | 2658.0 | 2598.8 | 2598.2 | 2707.7 | 2887.4 | 2935.2 | 2948.0 | 2939.9 |
| 25° | 2949.3 | 2933.1 | 2907.6 | 2833.6 | 2719.9 | 2663.4 | 2750.9 | 2977.5 | 3057.6 | 3061.0 | 3037.4 |
| 27.5° | 3186.1 | 3161.9 | 3126.9 | 3029.4 | 2875.9 | 2765.7 | 2816.8 | 3081.1 | 3198.2 | 3196.9 | 3148.4 |
| 30° | 3435.7 | 3411.5 | 3374.5 | 3256.1 | 3063.0 | 2903.5 | 2908.2 | 3192.9 | 3365.1 | 3357.7 | 3274.9 |
| 32.5° | 3618.0 | 3599.8 | 3592.4 | 3501.0 | 3278.3 | 3066.4 | 3013.2 | 3316.6 | 3570.9 | 3564.2 | 3448.5 |
| 35° | 3758.0 | 3734.4 | 3743.1 | 3696.8 | 3513.1 | 3248.6 | 3141.7 | 3464.0 | 3821.2 | 3820.5 | 3676.6 |
| 37.5° | 3896.5 | 3875.6 | 3883.1 | 3852.2 | 3730.4 | 3480.1 | 3298.4 | 3644.3 | 4131.3 | 4146.1 | 3952.4 |
| 40° | 4023.0 | 4000.8 | 4030.4 | 4001.5 | 3899.2 | 3726.3 | 3476.7 | 3848.1 | 4490.5 | 4518.8 | 4286.0 |
| 42.5° | 4099.0 | 4081.6 | 4130.6 | 4131.3 | 4045.9 | 3934.2 | 3672.5 | 4072.7 | 4906.3 | 4969.5 | 4696.4 |
| 45° | 4125.2 | 4119.2 | 4193.2 | 4208.6 | 4175.7 | 4054.6 | 3848.8 | 4317.7 | 5354.4 | 5467.3 | 5164.0 |
| 47.5° | 4097.0 | 4085.5 | 4187.8 | 4245.0 | 4271.3 | 4111.2 | 3994.7 | 4582.7 | 5811.9 | 5977.3 | 5673.9 |
| 50° | 3954.3 | 3932.2 | 4084.2 | 4204.7 | 4298.1 | 4148.2 | 4142.0 | 4888.8 | 6331.8 | 6512.8 | 6186.5 |
| 52.5° | 3698.1 | 3681.3 | 3854.1 | 4063.4 | 4239.0 | 4166.3 | 4307.6 | 5223.2 | 6825.7 | 7059.8 | 6711.9 |
| 55° | 3370.4 | 3348.3 | 3538.6 | 3811.8 | 4091.6 | 4160.3 | 4473.1 | 5597.2 | 7408.3 | 7645.7 | 7254.8 |
| 57.5° | 2851.0 | 2806.7 | 3047.5 | 3370.4 | 3851.4 | 4152.9 | 4645.3 | 5969.3 | 8000.2 | 8284.9 | 7834.1 |
| 60° | 2093.6 | 2027.7 | 2323.0 | 2705.8 | 3381.9 | 4080.8 | 4858.5 | 6386.4 | 8710.7 | 8967.0 | 8466.5 |
| 62.5° | 1219.0 | 1180.7 | 1373.7 | 1730.9 | 2549.1 | 3657.0 | 4978.3 | 6871.4 | 9409.0 | 9678.0 | 9088.1 |
| 65° | 946.6 | 935.8 | 952.6 | 980.2 | 1418.8 | 2738.1 | 4608.9 | 7344.3 | 10297.0 | 10485.3 | 9736.0 |
| 67.5° | 865.8 | 857.7 | 865.1 | 813.3 | 719.9 | 1525.1 | 3646.2 | 7464.0 | 11248.2 | 11362.6 | 10303.1 |
| 70° | 769.6 | 760.2 | 784.4 | 740.0 | 566.4 | 693.6 | 2356.0 | 7029.4 | 12005.1 | 12219.7 | 10734.3 |
| 72.5° | 627.0 | 616.2 | 672.7 | 652.5 | 476.9 | 445.4 | 1183.4 | 5996.9 | 11925.7 | 12371.0 | 10425.5 |
| 75° | 481.6 | 475.6 | 542.9 | 559.8 | 388.9 | 350.5 | 567.7 | 4457.6 | 10494.8 | 10943.5 | 8985.2 |
| 77.5° | 374.0 | 369.3 | 403.6 | 464.8 | 313.5 | 271.8 | 349.1 | 2827.6 | 7908.8 | 7987.5 | 6191.9 |
| 80° | 280.5 | 267.1 | 298.7 | 359.9 | 244.2 | 198.4 | 236.8 | 1648.9 | 4999.1 | 4531.6 | 2695.0 |
| 82.5° | 175.6 | 168.8 | 195.1 | 240.2 | 172.2 | 136.5 | 154.1 | 910.9 | 2003.5 | 1180.0 | 520.0 |
| 85° | 100.2 | 97.6 | 106.3 | 137.2 | 93.5 | 78.7 | 88.1 | 402.3 | 365.9 | 251.6 | 156.7 |
| 87.5° | 40.4 | 39.1 | 48.5 | 61.2 | 34.3 | 28.9 | 31.0 | 96.9 | 80.8 | 74.7 | 51.8 |
| 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° | 2553.1 | 2553.1 | 2553.1 | 2553.1 | 2553.1 | 2553.1 | 2553.1 | 2553.1 | 2553.1 | 2553.1 | 2553.1 |
| 2.5° | 2560.4 | 2560.4 | 2551.0 | 2536.3 | 2519.4 | 2508.7 | 2491.2 | 2486.4 | 2468.3 | 2462.9 | 2471.7 |
| 5° | 2591.4 | 2586.0 | 2557.1 | 2515.4 | 2458.2 | 2405.8 | 2347.9 | 2311.6 | 2260.4 | 2242.3 | 2255.7 |
| 7.5° | 2630.5 | 2615.6 | 2565.9 | 2474.4 | 2354.6 | 2236.9 | 2114.5 | 2021.6 | 1932.7 | 1901.2 | 1905.2 |
| 10° | 2666.1 | 2645.2 | 2560.4 | 2400.3 | 2193.1 | 1989.3 | 1794.2 | 1657.6 | 1554.0 | 1511.7 | 1521.1 |
| 12.5° | 2701.7 | 2663.4 | 2524.8 | 2277.2 | 1963.7 | 1687.3 | 1479.4 | 1373.1 | 1309.1 | 1258.0 | 1274.9 |
| 15° | 2735.4 | 2681.5 | 2469.6 | 2112.4 | 1712.2 | 1431.6 | 1278.2 | 1193.4 | 1142.4 | 1108.6 | 1114.7 |
| 17.5° | 2774.4 | 2697.0 | 2386.9 | 1903.2 | 1472.6 | 1254.7 | 1129.6 | 1078.4 | 1068.4 | 1064.3 | 1066.9 |
| 20° | 2828.9 | 2711.1 | 2277.9 | 1669.1 | 1296.4 | 1113.4 | 1048.8 | 1044.1 | 1043.4 | 1041.4 | 1048.2 |
| 22.5° | 2887.4 | 2727.9 | 2133.9 | 1456.5 | 1146.4 | 1025.3 | 1013.8 | 1004.4 | 998.4 | 997.6 | 1005.1 |
| 25° | 2956.7 | 2733.4 | 1953.6 | 1282.3 | 1018.5 | 983.6 | 970.1 | 956.0 | 951.9 | 951.9 | 956.0 |
| 27.5° | 3024.0 | 2715.2 | 1743.7 | 1130.9 | 946.6 | 945.2 | 927.7 | 923.0 | 922.3 | 924.3 | 929.8 |
| 30° | 3091.3 | 2680.9 | 1535.2 | 991.0 | 904.9 | 904.9 | 898.8 | 902.1 | 904.9 | 911.5 | 916.2 |
| 32.5° | 3182.1 | 2644.5 | 1361.0 | 887.3 | 868.5 | 861.8 | 867.9 | 874.5 | 877.3 | 886.0 | 893.4 |
| 35° | 3315.3 | 2619.0 | 1222.4 | 830.9 | 830.9 | 822.0 | 825.4 | 824.1 | 818.1 | 814.1 | 823.5 |
| 37.5° | 3491.6 | 2617.6 | 1108.0 | 804.6 | 799.2 | 797.9 | 798.6 | 789.8 | 766.3 | 738.0 | 738.7 |
| 40° | 3703.4 | 2653.9 | 1019.9 | 786.5 | 782.4 | 790.5 | 786.5 | 762.9 | 698.3 | 649.2 | 647.8 |
| 42.5° | 3988.0 | 2757.6 | 963.4 | 764.2 | 776.3 | 786.5 | 770.3 | 688.9 | 645.1 | 612.2 | 610.9 |
| 45° | 4323.0 | 2925.8 | 934.4 | 740.7 | 765.0 | 777.1 | 698.9 | 663.3 | 628.3 | 588.7 | 586.0 |
| 47.5° | 4702.5 | 3137.6 | 927.7 | 718.5 | 739.3 | 746.7 | 668.7 | 652.5 | 612.8 | 569.8 | 566.4 |
| 50° | 5115.6 | 3388.6 | 945.9 | 692.3 | 702.3 | 676.8 | 658.7 | 643.8 | 602.8 | 560.4 | 555.7 |
| 52.5° | 5542.7 | 3665.1 | 982.2 | 656.6 | 665.3 | 637.0 | 654.6 | 641.8 | 596.8 | 539.6 | 535.5 |
| 55° | 5962.5 | 3943.6 | 1017.2 | 614.9 | 627.7 | 601.5 | 643.2 | 633.8 | 569.2 | 504.6 | 501.2 |
| 57.5° | 6389.0 | 4220.7 | 1051.5 | 577.9 | 591.3 | 567.1 | 624.9 | 612.2 | 538.2 | 472.2 | 470.9 |
| 60° | 6832.3 | 4489.9 | 1067.6 | 542.2 | 551.7 | 535.5 | 597.4 | 575.2 | 503.2 | 439.3 | 437.3 |
| 62.5° | 7247.5 | 4713.9 | 1041.4 | 506.6 | 512.6 | 505.9 | 561.1 | 531.5 | 468.2 | 402.3 | 401.6 |
| 65° | 7663.9 | 4847.1 | 960.6 | 471.6 | 472.9 | 469.6 | 509.9 | 484.4 | 427.2 | 370.0 | 365.9 |
| 67.5° | 8041.3 | 4921.7 | 832.2 | 433.9 | 430.6 | 429.2 | 462.2 | 433.3 | 387.4 | 337.7 | 333.6 |
| 70° | 8121.4 | 4732.1 | 635.7 | 389.5 | 389.5 | 386.1 | 409.7 | 380.1 | 343.8 | 303.4 | 302.1 |
| 72.5° | 7417.6 | 3980.6 | 451.4 | 339.1 | 344.4 | 337.7 | 357.2 | 332.3 | 299.4 | 272.4 | 264.3 |
| 75° | 5981.4 | 2919.0 | 328.3 | 287.3 | 296.6 | 285.3 | 303.4 | 285.9 | 257.7 | 257.0 | 231.4 |
| 77.5° | 4109.7 | 1804.9 | 238.1 | 236.8 | 243.5 | 228.8 | 249.6 | 240.2 | 214.6 | 203.2 | 190.3 |
| 80° | 1753.9 | 719.9 | 173.5 | 183.0 | 183.0 | 169.5 | 193.7 | 196.4 | 174.2 | 168.8 | 168.8 |
| 82.5° | 349.1 | 204.5 | 121.8 | 125.8 | 118.4 | 114.4 | 137.2 | 152.0 | 209.9 | 233.4 | 234.1 |
| 85° | 105.0 | 75.3 | 73.3 | 68.6 | 60.6 | 61.2 | 80.8 | 152.7 | 188.4 | 107.6 | 92.9 |
| 87.5° | 28.9 | 18.9 | 19.5 | 15.5 | 12.8 | 16.8 | 27.6 | 115.7 | 63.2 | 27.0 | 22.9 |
| 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)