

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: P970035

Luminaire Tested: **NVN-SB6A-835-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970035
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6A-835-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19920.9 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

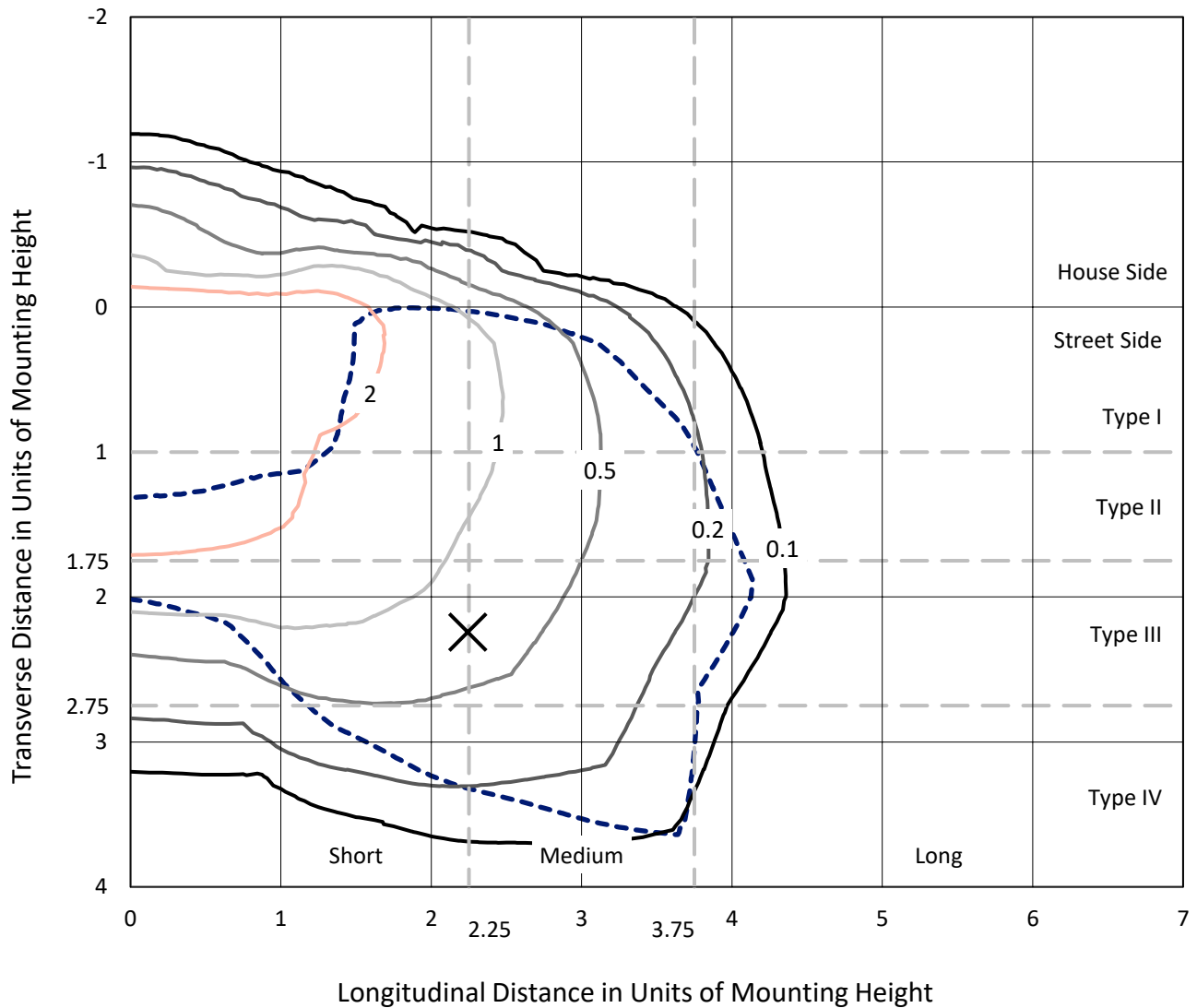
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

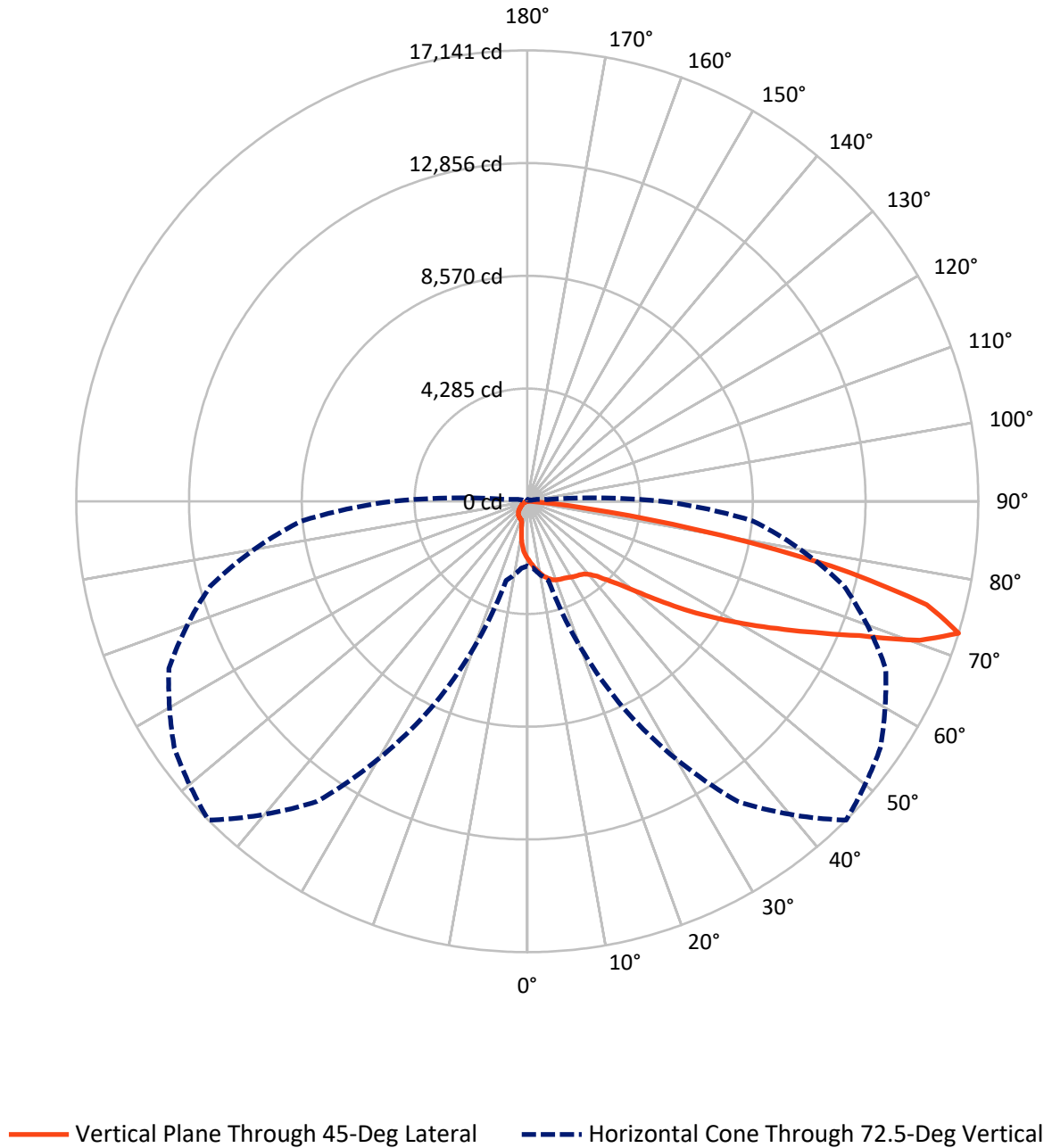
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2093.1 | 0.0 | 2093.1 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 17827.8 | 0.0 | 17827.8 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 19920.9 | 0.0 | 19920.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 205.6 | 1.0 |
| 10°-20° | 600.9 | 3.0 |
| 20°-30° | 986.9 | 5.0 |
| 30°-40° | 1399.6 | 7.0 |
| 40°-50° | 2313.4 | 11.6 |
| 50°-60° | 4155.7 | 20.9 |
| 60°-70° | 5770.4 | 29.0 |
| 70°-80° | 4185.7 | 21.0 |
| 80°-90° | 302.6 | 1.5 |
| 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° | 19920.9 | 100.0 |
| 0°-180° | 19920.9 | 100.0 |

Coefficient of Utilization



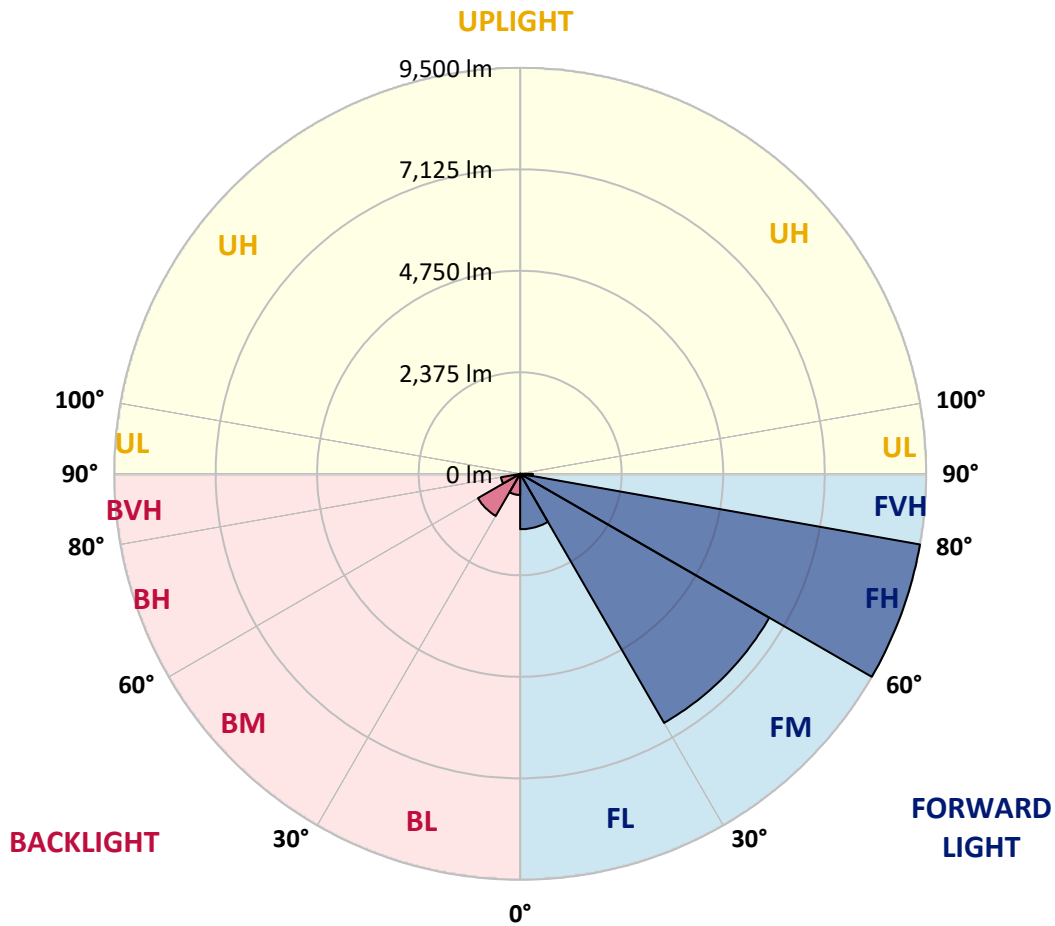
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1297.6 | 6.5 | | | |
| FM (30°-60°) | 6730.3 | 33.8 | | | |
| FH (60°-80°) | 9499.7 | 47.7 | | | G4/12000 |
| FVH (80°-90°) | 300.1 | 1.5 | | | G3/500 |
| BL (0°-30°) | 495.8 | 2.5 | B1/500 | | |
| BM (30°-60°) | 1138.4 | 5.7 | B2/2500 | | |
| BH (60°-80°) | 456.4 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.5 | 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° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2182.3 | 2182.3 | 2182.3 | 2182.3 | 2182.3 | 2182.3 | 2182.3 | 2182.3 | 2182.3 | 2182.3 | 2182.3 |
| 2.5° | 2383.6 | 2387.7 | 2385.0 | 2368.7 | 2341.5 | 2326.5 | 2318.3 | 2291.2 | 2273.4 | 2242.2 | 2209.6 |
| 5° | 2602.6 | 2618.9 | 2609.3 | 2576.7 | 2525.0 | 2488.3 | 2477.4 | 2421.7 | 2371.3 | 2312.9 | 2245.0 |
| 7.5° | 2835.0 | 2843.2 | 2825.5 | 2783.4 | 2714.0 | 2651.5 | 2641.9 | 2564.4 | 2484.2 | 2394.5 | 2302.0 |
| 10° | 3036.3 | 3045.8 | 3018.6 | 2957.4 | 2878.5 | 2801.0 | 2787.5 | 2701.8 | 2606.6 | 2496.5 | 2378.2 |
| 12.5° | 3204.9 | 3214.4 | 3179.0 | 3105.6 | 3018.6 | 2938.4 | 2924.8 | 2835.0 | 2730.4 | 2608.0 | 2461.1 |
| 15° | 3332.7 | 3350.4 | 3302.8 | 3223.9 | 3130.1 | 3049.9 | 3043.1 | 2954.7 | 2852.7 | 2716.8 | 2560.3 |
| 17.5° | 3407.5 | 3425.1 | 3380.3 | 3285.1 | 3204.9 | 3136.9 | 3128.7 | 3055.3 | 2960.1 | 2829.6 | 2656.9 |
| 20° | 3419.7 | 3436.0 | 3388.4 | 3305.5 | 3238.9 | 3184.5 | 3180.4 | 3127.4 | 3058.1 | 2932.9 | 2761.7 |
| 22.5° | 3383.0 | 3403.4 | 3360.0 | 3293.3 | 3247.1 | 3218.5 | 3213.1 | 3183.1 | 3143.7 | 3037.7 | 2859.5 |
| 25° | 3345.0 | 3361.3 | 3328.6 | 3270.2 | 3245.7 | 3243.0 | 3247.1 | 3241.6 | 3233.5 | 3143.7 | 2973.7 |
| 27.5° | 3342.2 | 3360.0 | 3323.2 | 3267.4 | 3253.9 | 3282.4 | 3286.5 | 3312.3 | 3319.2 | 3240.2 | 3083.9 |
| 30° | 3365.4 | 3377.6 | 3342.2 | 3283.8 | 3276.9 | 3342.2 | 3343.6 | 3389.8 | 3400.7 | 3321.8 | 3192.7 |
| 32.5° | 3415.6 | 3429.2 | 3393.9 | 3308.2 | 3298.8 | 3389.8 | 3393.9 | 3455.1 | 3472.8 | 3408.8 | 3306.9 |
| 35° | 3534.0 | 3550.3 | 3509.5 | 3376.2 | 3342.2 | 3434.7 | 3447.0 | 3519.0 | 3554.4 | 3501.3 | 3425.1 |
| 37.5° | 3829.0 | 3781.4 | 3725.7 | 3513.6 | 3441.4 | 3505.4 | 3525.8 | 3610.0 | 3672.7 | 3611.5 | 3566.6 |
| 40° | 4561.9 | 4412.3 | 4238.3 | 3747.4 | 3615.6 | 3656.3 | 3672.7 | 3756.9 | 3842.6 | 3782.8 | 3761.0 |
| 42.5° | 5661.9 | 5485.2 | 5205.1 | 4285.9 | 3878.0 | 3898.4 | 3910.6 | 3984.1 | 4105.0 | 4057.5 | 4062.9 |
| 45° | 6642.3 | 6578.3 | 6292.9 | 5205.1 | 4368.9 | 4268.2 | 4283.2 | 4321.2 | 4499.3 | 4481.7 | 4517.1 |
| 47.5° | 7395.6 | 7358.9 | 7138.6 | 6260.2 | 5198.3 | 4721.0 | 4763.2 | 4780.8 | 5037.8 | 5100.4 | 5195.5 |
| 50° | 7974.8 | 7961.3 | 7764.1 | 7198.5 | 6282.0 | 5388.6 | 5403.6 | 5365.5 | 5750.4 | 5905.3 | 6086.1 |
| 52.5° | 8521.4 | 8567.7 | 8422.2 | 8070.0 | 7439.1 | 6263.0 | 6260.2 | 6080.7 | 6600.2 | 6834.0 | 7142.7 |
| 55° | 9015.1 | 9031.4 | 9046.3 | 8959.3 | 8603.0 | 7258.2 | 7232.4 | 6938.7 | 7585.9 | 7828.0 | 8162.5 |
| 57.5° | 9478.7 | 9485.6 | 9618.8 | 9796.8 | 9814.6 | 8327.0 | 8279.4 | 7927.2 | 8662.9 | 8835.6 | 9040.9 |
| 60° | 9790.1 | 9821.3 | 10102.8 | 10597.8 | 10814.0 | 9429.8 | 9404.0 | 9044.9 | 9758.8 | 9839.1 | 9800.9 |
| 62.5° | 9341.3 | 9531.8 | 10241.5 | 11223.2 | 11757.7 | 10652.2 | 10639.9 | 10302.7 | 10911.8 | 10846.7 | 10520.3 |
| 65° | 7561.5 | 7883.8 | 9131.9 | 11646.2 | 12683.6 | 12017.3 | 12035.0 | 11676.1 | 12096.2 | 11884.1 | 11105.0 |
| 67.5° | 5289.4 | 5629.3 | 7106.0 | 11680.1 | 13718.4 | 13620.5 | 13722.4 | 13159.5 | 13353.9 | 12878.0 | 11243.6 |
| 70° | 3657.7 | 3833.1 | 4794.4 | 10948.5 | 14524.7 | 15828.7 | 15826.0 | 14981.6 | 14604.9 | 13330.8 | 10536.6 |
| 72.5° | 2459.8 | 2550.8 | 3113.7 | 8686.0 | 13931.8 | 17140.8 | 17061.9 | 16374.0 | 15026.4 | 12467.4 | 8608.5 |
| 75° | 1037.5 | 1104.1 | 1441.4 | 4881.5 | 11022.0 | 15681.8 | 15468.4 | 14470.3 | 13351.2 | 9817.2 | 5371.0 |
| 77.5° | 329.0 | 357.6 | 568.4 | 1747.2 | 6071.2 | 11787.5 | 11561.8 | 9036.8 | 8948.5 | 4924.9 | 1963.5 |
| 80° | 156.4 | 182.2 | 319.5 | 701.6 | 2389.1 | 6411.2 | 6379.9 | 4099.6 | 3849.4 | 1329.8 | 394.3 |
| 82.5° | 68.0 | 80.3 | 176.8 | 375.3 | 1068.8 | 2287.1 | 2333.3 | 1395.1 | 1154.5 | 504.5 | 121.1 |
| 85° | 21.7 | 28.6 | 81.6 | 172.7 | 451.4 | 568.4 | 561.6 | 331.8 | 465.0 | 274.7 | 42.1 |
| 87.5° | 0.0 | 0.0 | 27.2 | 39.5 | 46.2 | 32.6 | 36.7 | 28.6 | 129.1 | 76.2 | 15.0 |
| 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° | 2182.3 | 2182.3 | 2182.3 | 2182.3 | 2182.3 | 2182.3 | 2182.3 | 2182.3 | 2182.3 | 2182.3 | 2182.3 |
| 2.5° | 2193.3 | 2171.5 | 2133.4 | 2098.1 | 2066.8 | 2035.5 | 2016.5 | 1989.3 | 1986.6 | 1986.6 | 1993.4 |
| 5° | 2208.3 | 2172.9 | 2104.8 | 2032.8 | 1949.9 | 1871.0 | 1792.1 | 1716.0 | 1691.6 | 1673.8 | 1682.0 |
| 7.5° | 2251.7 | 2196.0 | 2088.5 | 1951.2 | 1793.4 | 1620.8 | 1499.8 | 1369.3 | 1319.0 | 1291.7 | 1295.8 |
| 10° | 2314.2 | 2238.1 | 2074.9 | 1834.2 | 1578.6 | 1343.5 | 1170.8 | 1029.3 | 975.0 | 951.8 | 951.8 |
| 12.5° | 2383.6 | 2289.7 | 2050.5 | 1688.8 | 1343.5 | 1062.0 | 893.4 | 828.1 | 819.9 | 819.9 | 819.9 |
| 15° | 2466.6 | 2352.4 | 2008.3 | 1517.5 | 1097.3 | 840.3 | 780.5 | 783.2 | 791.4 | 796.8 | 796.8 |
| 17.5° | 2552.2 | 2419.0 | 1941.7 | 1325.7 | 879.8 | 756.0 | 757.4 | 761.5 | 768.2 | 773.7 | 773.7 |
| 20° | 2644.7 | 2485.6 | 1853.3 | 1121.8 | 754.6 | 731.5 | 735.6 | 739.7 | 745.2 | 747.8 | 749.2 |
| 22.5° | 2743.9 | 2548.1 | 1748.6 | 921.9 | 712.5 | 711.1 | 712.5 | 716.6 | 723.3 | 723.3 | 726.1 |
| 25° | 2850.0 | 2617.4 | 1628.9 | 776.4 | 690.7 | 690.7 | 693.5 | 696.2 | 701.6 | 701.6 | 702.9 |
| 27.5° | 2958.8 | 2681.4 | 1502.5 | 700.3 | 671.7 | 670.3 | 670.3 | 674.4 | 677.1 | 678.6 | 679.9 |
| 30° | 3078.5 | 2756.2 | 1376.1 | 684.0 | 656.7 | 650.0 | 645.9 | 648.6 | 651.3 | 652.7 | 655.4 |
| 32.5° | 3200.8 | 2828.3 | 1263.2 | 690.7 | 641.8 | 629.6 | 615.9 | 613.3 | 613.3 | 618.7 | 622.8 |
| 35° | 3336.8 | 2907.1 | 1176.2 | 713.8 | 633.7 | 599.6 | 577.9 | 565.7 | 567.0 | 575.1 | 579.2 |
| 37.5° | 3500.0 | 3002.3 | 1112.2 | 734.2 | 628.2 | 565.7 | 530.3 | 515.4 | 505.8 | 515.4 | 512.6 |
| 40° | 3713.5 | 3142.3 | 1066.0 | 750.6 | 621.4 | 526.2 | 478.7 | 454.2 | 436.4 | 441.9 | 439.2 |
| 42.5° | 4027.5 | 3362.6 | 1048.4 | 751.9 | 606.5 | 480.0 | 425.6 | 393.0 | 367.2 | 368.5 | 363.1 |
| 45° | 4468.1 | 3710.7 | 1139.5 | 734.2 | 573.8 | 429.7 | 369.8 | 326.4 | 310.1 | 306.0 | 300.5 |
| 47.5° | 5071.8 | 4217.9 | 1350.2 | 697.5 | 526.2 | 380.7 | 315.5 | 278.7 | 266.5 | 259.7 | 255.6 |
| 50° | 5880.8 | 4869.2 | 1584.1 | 656.7 | 478.7 | 334.5 | 270.6 | 247.4 | 239.3 | 232.5 | 231.1 |
| 52.5° | 6819.1 | 5530.1 | 1775.8 | 615.9 | 431.0 | 293.7 | 242.0 | 228.5 | 221.6 | 216.2 | 214.8 |
| 55° | 7679.8 | 5985.6 | 1764.9 | 572.5 | 384.8 | 261.1 | 221.6 | 213.5 | 205.3 | 199.9 | 197.2 |
| 57.5° | 8215.5 | 6049.4 | 1454.9 | 524.9 | 331.8 | 235.2 | 202.6 | 197.2 | 187.7 | 180.8 | 179.5 |
| 60° | 8461.6 | 5685.1 | 1019.8 | 462.3 | 278.7 | 210.7 | 182.2 | 179.5 | 167.3 | 157.7 | 155.0 |
| 62.5° | 8506.5 | 5007.9 | 679.9 | 384.8 | 232.5 | 187.7 | 161.8 | 157.7 | 141.4 | 125.0 | 117.0 |
| 65° | 8324.3 | 4039.7 | 470.5 | 300.5 | 198.5 | 163.2 | 138.7 | 130.6 | 112.9 | 96.6 | 91.1 |
| 67.5° | 7747.8 | 2836.4 | 327.7 | 216.2 | 168.6 | 129.1 | 110.2 | 107.4 | 93.8 | 80.3 | 76.2 |
| 70° | 6691.3 | 1616.7 | 218.9 | 161.8 | 133.2 | 88.4 | 87.0 | 89.8 | 76.2 | 65.3 | 59.9 |
| 72.5° | 5130.3 | 739.7 | 136.0 | 118.3 | 91.1 | 59.9 | 69.4 | 70.7 | 58.4 | 49.0 | 43.6 |
| 75° | 3020.0 | 316.8 | 85.7 | 76.2 | 46.2 | 39.5 | 50.3 | 51.7 | 39.5 | 31.3 | 27.2 |
| 77.5° | 1028.0 | 119.6 | 54.4 | 44.9 | 23.2 | 21.7 | 32.6 | 32.6 | 21.7 | 12.2 | 9.5 |
| 80° | 233.9 | 44.9 | 27.2 | 17.6 | 10.9 | 9.5 | 10.9 | 9.5 | 5.4 | 1.3 | 0.0 |
| 82.5° | 66.6 | 17.6 | 10.9 | 6.8 | 4.1 | 4.1 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 19.1 | 8.2 | 2.8 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 8.2 | 1.3 | 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)