

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: P961392

Luminaire Tested: **NVN-SB2A-735-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2A-735-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9351.1 lumens
Efficiency: N/A
Efficacy: 163.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

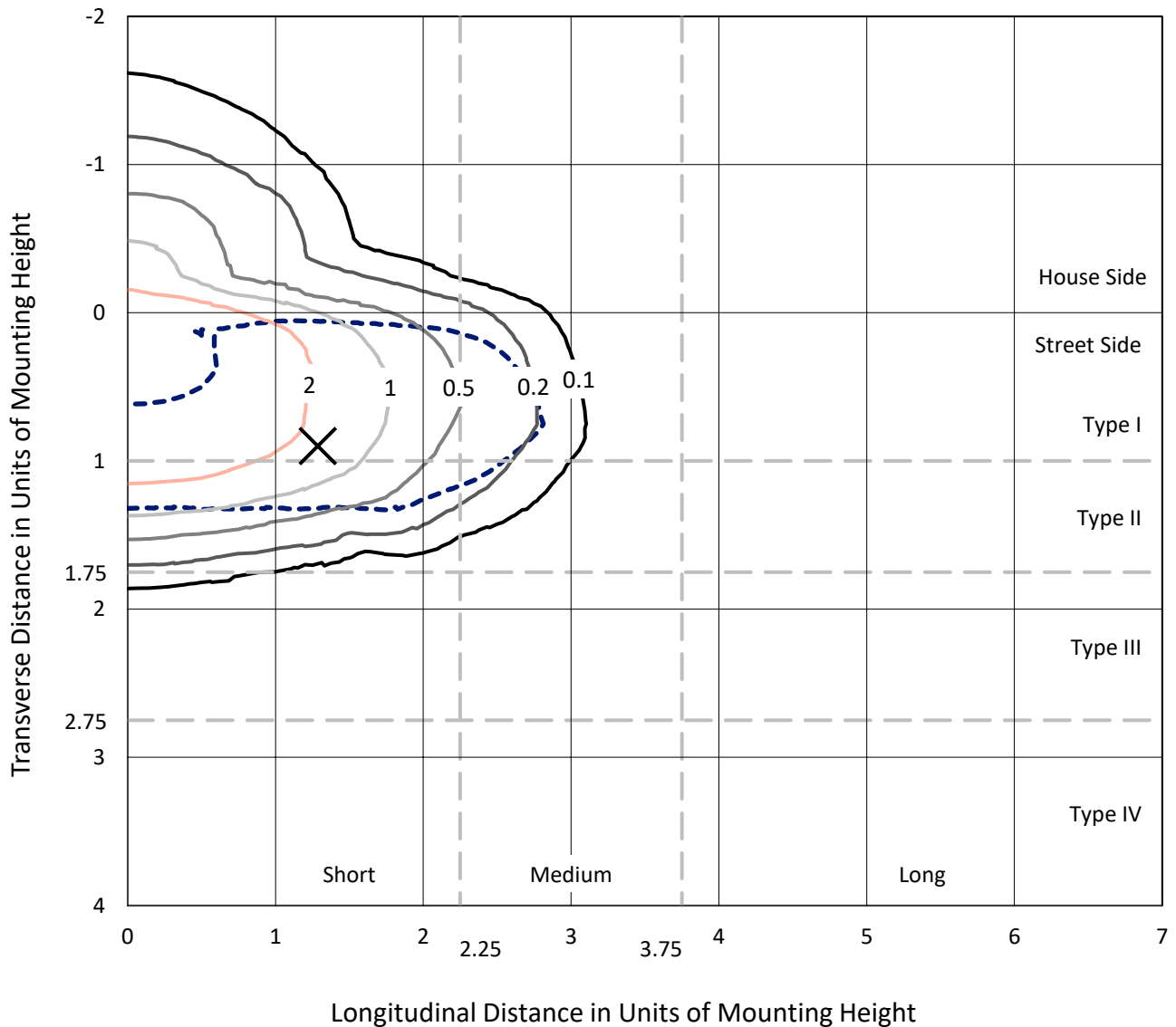
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

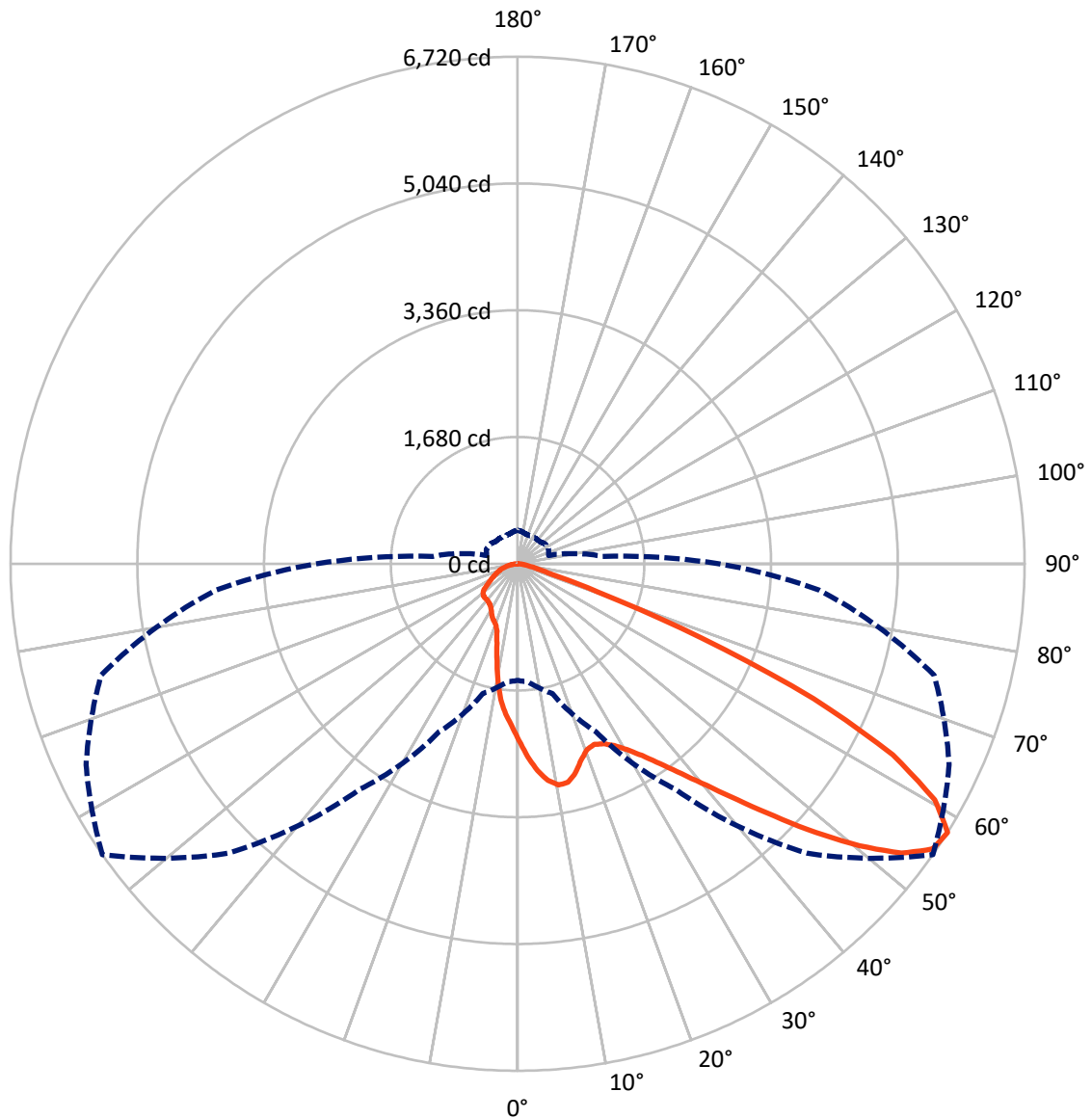
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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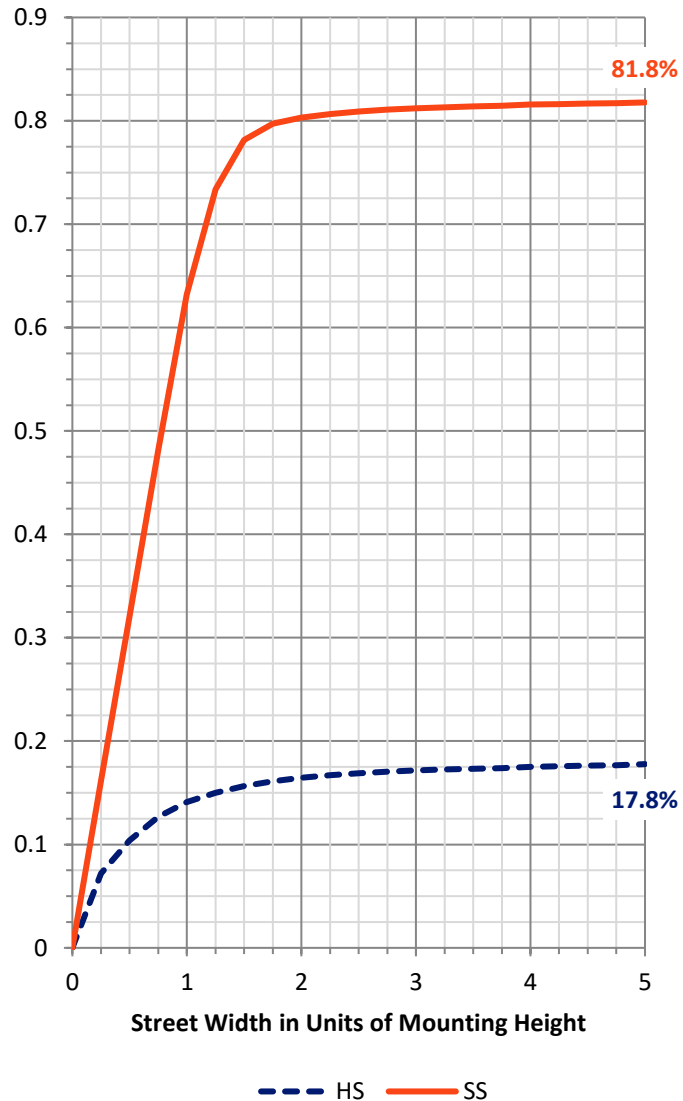
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1692.0 | 0.0 | 1692.0 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 7659.1 | 0.0 | 7659.1 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 9351.1 | 0.0 | 9351.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 217.4 | 2.3 |
| 10°-20° | 548.8 | 5.9 |
| 20°-30° | 875.7 | 9.4 |
| 30°-40° | 1386.5 | 14.8 |
| 40°-50° | 2122.1 | 22.7 |
| 50°-60° | 2273.0 | 24.3 |
| 60°-70° | 1430.0 | 15.3 |
| 70°-80° | 422.9 | 4.5 |
| 80°-90° | 74.8 | 0.8 |
| 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° | 9351.1 | 100.0 |
| 0°-180° | 9351.1 | 100.0 |

Coefficient of Utilization



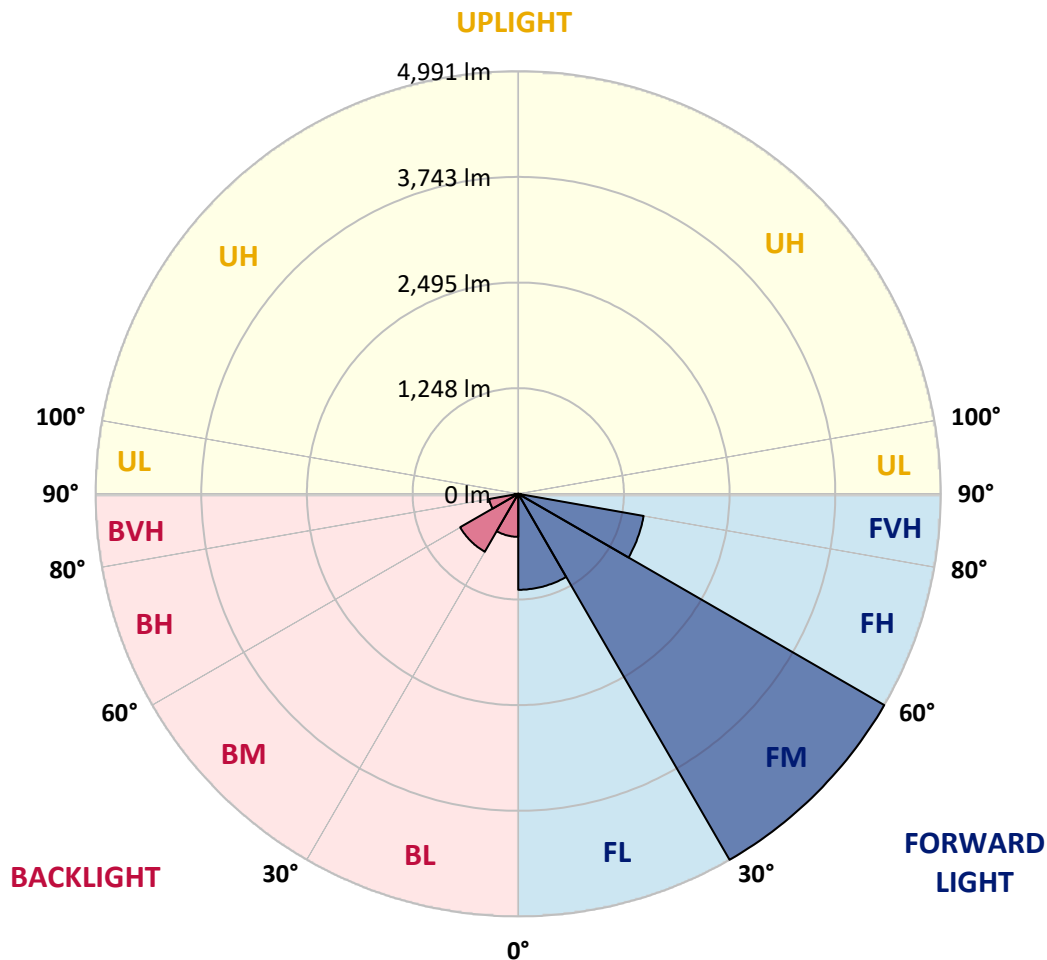
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1133.4 | 12.1 | | | |
| FM (30°-60°) | 4990.7 | 53.4 | | | |
| FH (60°-80°) | 1503.4 | 16.1 | | | G1/1800 |
| FVH (80°-90°) | 31.6 | 0.3 | | | G1/100 |
| BL (0°-30°) | 508.6 | 5.4 | B2/1000 | | |
| BM (30°-60°) | 790.8 | 8.5 | B1/1000 | | |
| BH (60°-80°) | 349.4 | 3.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 43.2 | 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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2343.0 | 2343.0 | 2343.0 | 2343.0 | 2343.0 | 2343.0 | 2343.0 | 2343.0 | 2343.0 | 2343.0 | 2343.0 |
| 2.5° | 2688.3 | 2686.3 | 2697.0 | 2660.7 | 2636.0 | 2602.7 | 2558.7 | 2502.6 | 2442.2 | 2378.4 | 2350.8 |
| 5° | 2930.4 | 2913.5 | 2924.6 | 2897.6 | 2870.5 | 2820.2 | 2754.9 | 2663.6 | 2551.9 | 2424.7 | 2357.1 |
| 7.5° | 2892.2 | 2880.7 | 2909.2 | 2933.3 | 2953.6 | 2947.3 | 2899.5 | 2803.8 | 2659.7 | 2475.1 | 2376.9 |
| 10° | 2584.3 | 2571.2 | 2611.4 | 2695.0 | 2817.8 | 2924.6 | 2982.6 | 2923.2 | 2770.0 | 2530.1 | 2396.2 |
| 12.5° | 2312.6 | 2306.4 | 2332.9 | 2400.7 | 2536.9 | 2741.9 | 2972.0 | 3027.5 | 2884.5 | 2595.4 | 2422.4 |
| 15° | 2196.6 | 2188.9 | 2205.8 | 2240.1 | 2327.2 | 2518.1 | 2875.3 | 3099.1 | 2997.1 | 2670.8 | 2463.9 |
| 17.5° | 2171.0 | 2162.2 | 2169.5 | 2187.5 | 2243.5 | 2389.0 | 2729.3 | 3134.4 | 3114.6 | 2754.9 | 2498.7 |
| 20° | 2218.4 | 2211.1 | 2212.1 | 2211.1 | 2250.3 | 2365.8 | 2627.8 | 3120.9 | 3217.1 | 2832.3 | 2532.6 |
| 22.5° | 2332.9 | 2320.8 | 2321.3 | 2295.7 | 2317.0 | 2406.4 | 2601.2 | 3084.6 | 3308.4 | 2899.9 | 2558.2 |
| 25° | 2519.6 | 2497.7 | 2502.1 | 2436.8 | 2431.1 | 2497.3 | 2642.8 | 3056.5 | 3399.3 | 2954.2 | 2563.0 |
| 27.5° | 2774.8 | 2750.1 | 2737.1 | 2639.9 | 2593.5 | 2626.4 | 2727.4 | 3066.3 | 3485.4 | 3001.0 | 2550.9 |
| 30° | 3093.8 | 3063.8 | 3037.3 | 2899.5 | 2815.4 | 2803.3 | 2858.8 | 3130.0 | 3586.9 | 3050.3 | 2530.1 |
| 32.5° | 3484.9 | 3450.0 | 3401.8 | 3219.0 | 3100.6 | 3037.3 | 3029.1 | 3243.7 | 3705.8 | 3113.1 | 2519.6 |
| 35° | 3950.5 | 3904.9 | 3836.4 | 3599.9 | 3450.0 | 3320.5 | 3253.4 | 3407.5 | 3868.8 | 3207.9 | 2531.6 |
| 37.5° | 4429.9 | 4378.7 | 4315.9 | 4034.5 | 3850.3 | 3659.4 | 3526.9 | 3629.9 | 4085.8 | 3336.5 | 2563.5 |
| 40° | 4872.2 | 4814.7 | 4756.2 | 4505.8 | 4308.2 | 4078.1 | 3861.9 | 3911.3 | 4351.1 | 3490.2 | 2617.6 |
| 42.5° | 5133.3 | 5090.8 | 5068.5 | 4933.2 | 4780.4 | 4546.9 | 4278.7 | 4244.8 | 4649.4 | 3667.1 | 2679.6 |
| 45° | 5121.7 | 5104.3 | 5173.0 | 5229.0 | 5192.8 | 5063.2 | 4766.9 | 4613.6 | 4948.6 | 3820.4 | 2736.5 |
| 47.5° | 4848.0 | 4859.7 | 5013.0 | 5328.2 | 5466.8 | 5534.5 | 5322.8 | 4975.8 | 5208.7 | 3935.0 | 2762.2 |
| 50° | 4103.7 | 4113.3 | 4468.2 | 5147.8 | 5537.5 | 5918.9 | 5874.4 | 5329.1 | 5410.3 | 4005.0 | 2756.4 |
| 52.5° | 3514.4 | 3520.7 | 3672.9 | 4613.1 | 5304.5 | 6112.2 | 6371.3 | 5662.2 | 5557.8 | 4024.4 | 2724.0 |
| 55° | 2647.2 | 2668.9 | 2839.6 | 3619.3 | 4698.2 | 5958.9 | 6673.9 | 6005.4 | 5651.0 | 4026.3 | 2690.1 |
| 57.5° | 1546.4 | 1570.1 | 1780.8 | 2456.7 | 3651.7 | 5424.8 | 6719.8 | 6309.9 | 5714.4 | 4010.8 | 2669.8 |
| 60° | 757.5 | 767.6 | 859.5 | 1291.2 | 2251.7 | 4395.6 | 6350.5 | 6457.4 | 5749.6 | 4002.6 | 2668.9 |
| 62.5° | 510.4 | 509.0 | 512.9 | 637.1 | 1109.5 | 2824.1 | 5580.9 | 6199.2 | 5730.8 | 3971.2 | 2659.3 |
| 65° | 438.9 | 433.6 | 419.1 | 447.1 | 574.8 | 1291.7 | 4312.0 | 5428.7 | 5587.2 | 3892.4 | 2593.0 |
| 67.5° | 379.5 | 380.0 | 380.5 | 371.8 | 410.4 | 596.0 | 2635.1 | 4276.2 | 5071.9 | 3519.2 | 2337.7 |
| 70° | 314.3 | 318.6 | 320.5 | 320.5 | 334.6 | 391.0 | 1124.9 | 2930.9 | 4000.7 | 2759.3 | 1882.8 |
| 72.5° | 286.2 | 277.0 | 278.0 | 273.2 | 273.2 | 297.8 | 452.9 | 1661.4 | 2520.5 | 1552.3 | 1149.0 |
| 75° | 233.5 | 239.3 | 240.3 | 236.9 | 225.7 | 227.2 | 268.8 | 697.1 | 1078.5 | 643.9 | 568.0 |
| 77.5° | 201.6 | 201.6 | 203.6 | 201.1 | 192.4 | 170.1 | 179.4 | 270.2 | 367.0 | 263.9 | 283.7 |
| 80° | 162.0 | 161.4 | 169.6 | 174.6 | 160.9 | 125.7 | 114.6 | 149.3 | 162.9 | 116.0 | 147.4 |
| 82.5° | 78.8 | 83.6 | 116.5 | 132.9 | 122.3 | 90.9 | 70.1 | 92.9 | 87.0 | 51.2 | 66.2 |
| 85° | 45.9 | 43.5 | 52.2 | 74.0 | 70.1 | 50.2 | 33.8 | 48.4 | 45.4 | 26.1 | 26.5 |
| 87.5° | 14.5 | 13.5 | 10.7 | 25.1 | 20.3 | 14.0 | 9.2 | 14.0 | 12.6 | 5.8 | 5.8 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2343.0 | 2343.0 | 2343.0 | 2343.0 | 2343.0 | 2343.0 | 2343.0 | 2343.0 | 2343.0 | 2343.0 |
| 2.5° | 2316.5 | 2259.4 | 2202.9 | 2151.2 | 2119.7 | 2099.4 | 2079.1 | 2056.5 | 2047.7 | 2034.6 |
| 5° | 2293.3 | 2183.0 | 2085.0 | 2000.4 | 1923.5 | 1863.0 | 1802.2 | 1752.9 | 1730.6 | 1745.6 |
| 7.5° | 2279.7 | 2120.2 | 1968.9 | 1813.7 | 1664.4 | 1545.0 | 1441.0 | 1368.1 | 1335.2 | 1343.4 |
| 10° | 2267.7 | 2049.2 | 1818.6 | 1573.5 | 1358.8 | 1210.9 | 1104.5 | 1049.0 | 1028.2 | 1032.6 |
| 12.5° | 2256.5 | 1969.4 | 1637.3 | 1314.9 | 1086.7 | 989.0 | 958.6 | 959.1 | 963.0 | 965.9 |
| 15° | 2254.6 | 1873.2 | 1434.8 | 1088.7 | 939.7 | 933.5 | 966.4 | 987.1 | 998.2 | 1001.6 |
| 17.5° | 2251.7 | 1758.2 | 1228.4 | 934.4 | 903.9 | 946.5 | 976.9 | 990.5 | 999.2 | 999.7 |
| 20° | 2240.1 | 1612.1 | 1037.9 | 860.9 | 896.3 | 933.0 | 951.8 | 962.5 | 969.8 | 972.1 |
| 22.5° | 2204.4 | 1449.8 | 889.5 | 828.1 | 865.3 | 894.8 | 917.1 | 929.1 | 933.5 | 936.3 |
| 25° | 2140.0 | 1268.0 | 787.0 | 796.6 | 822.3 | 859.5 | 877.4 | 879.8 | 878.3 | 882.7 |
| 27.5° | 2055.9 | 1073.2 | 723.1 | 754.1 | 787.0 | 818.9 | 828.6 | 827.1 | 824.2 | 829.0 |
| 30° | 1954.4 | 898.2 | 682.5 | 706.2 | 751.2 | 780.2 | 788.9 | 785.6 | 779.7 | 785.0 |
| 32.5° | 1847.0 | 755.1 | 649.2 | 672.9 | 721.7 | 750.2 | 758.9 | 755.5 | 751.2 | 755.5 |
| 35° | 1747.0 | 655.0 | 618.3 | 650.7 | 698.5 | 726.5 | 737.7 | 738.2 | 738.2 | 743.4 |
| 37.5° | 1655.2 | 596.6 | 592.7 | 636.6 | 682.5 | 707.7 | 723.6 | 724.7 | 703.9 | 705.3 |
| 40° | 1570.1 | 571.8 | 581.1 | 627.5 | 667.1 | 691.3 | 692.3 | 638.1 | 599.9 | 598.9 |
| 42.5° | 1500.5 | 567.0 | 584.5 | 626.5 | 656.0 | 656.9 | 588.8 | 546.7 | 536.1 | 536.6 |
| 45° | 1435.2 | 565.6 | 592.1 | 626.5 | 639.5 | 567.5 | 521.6 | 510.4 | 511.5 | 515.3 |
| 47.5° | 1362.2 | 559.8 | 593.6 | 617.8 | 592.1 | 504.7 | 491.2 | 486.3 | 484.4 | 485.3 |
| 50° | 1282.5 | 539.0 | 575.2 | 600.3 | 511.0 | 477.6 | 460.7 | 459.2 | 461.7 | 463.1 |
| 52.5° | 1198.3 | 505.1 | 543.9 | 569.0 | 473.8 | 453.9 | 435.1 | 438.5 | 449.1 | 452.4 |
| 55° | 1143.3 | 465.6 | 502.2 | 506.1 | 447.6 | 431.7 | 415.7 | 423.4 | 443.3 | 449.6 |
| 57.5° | 1128.7 | 423.4 | 454.9 | 450.5 | 414.3 | 412.4 | 402.7 | 409.5 | 434.6 | 443.7 |
| 60° | 1124.4 | 385.8 | 408.5 | 405.1 | 381.9 | 391.0 | 388.7 | 392.1 | 400.8 | 403.6 |
| 62.5° | 1090.6 | 355.8 | 367.0 | 362.0 | 352.9 | 368.8 | 374.6 | 367.4 | 374.1 | 377.5 |
| 65° | 1004.5 | 331.6 | 326.3 | 322.9 | 326.8 | 341.3 | 352.9 | 338.4 | 344.7 | 354.3 |
| 67.5° | 862.4 | 298.8 | 284.2 | 288.1 | 300.2 | 307.9 | 322.9 | 306.5 | 311.8 | 328.2 |
| 70° | 697.5 | 257.2 | 244.2 | 255.2 | 266.8 | 282.8 | 285.3 | 274.1 | 286.7 | 305.0 |
| 72.5° | 493.5 | 215.1 | 205.9 | 228.7 | 232.5 | 253.3 | 247.9 | 242.7 | 260.0 | 266.4 |
| 75° | 342.2 | 173.5 | 168.2 | 185.6 | 199.7 | 217.5 | 213.7 | 220.0 | 256.7 | 259.6 |
| 77.5° | 216.6 | 134.9 | 131.5 | 142.6 | 162.0 | 181.7 | 188.1 | 259.6 | 438.5 | 455.8 |
| 80° | 125.7 | 100.6 | 96.7 | 105.4 | 122.3 | 140.6 | 181.3 | 318.6 | 289.0 | 285.7 |
| 82.5° | 70.1 | 69.1 | 64.3 | 66.7 | 81.7 | 101.5 | 256.2 | 224.3 | 182.2 | 188.1 |
| 85° | 32.9 | 40.6 | 34.8 | 33.3 | 45.9 | 118.9 | 171.2 | 128.1 | 85.1 | 83.1 |
| 87.5° | 8.7 | 7.7 | 7.7 | 8.7 | 19.4 | 102.5 | 68.2 | 54.6 | 32.4 | 31.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)