

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: P959858

Luminaire Tested: **NVN-SB1B-740-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1B-740-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4667.9 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

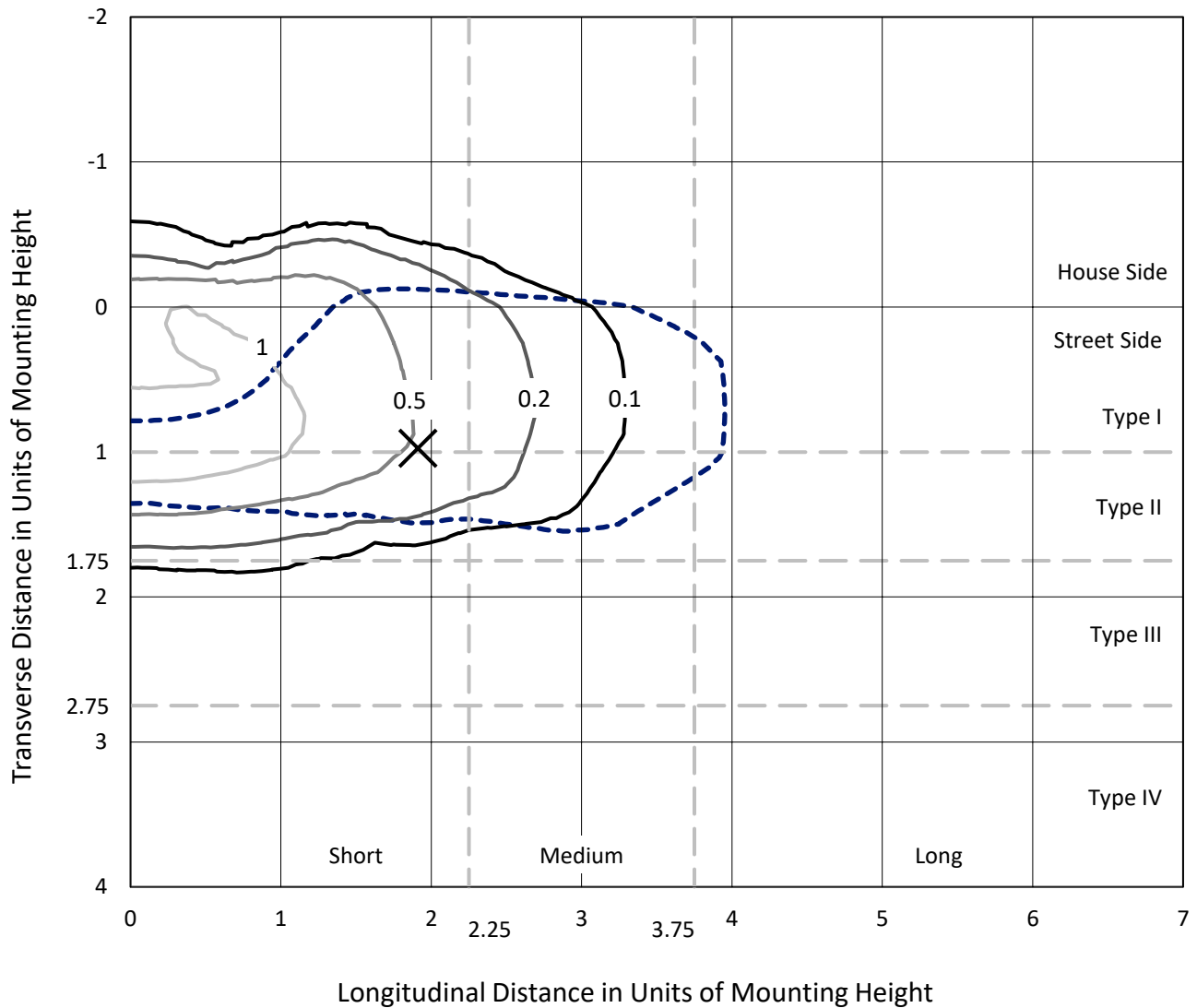
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

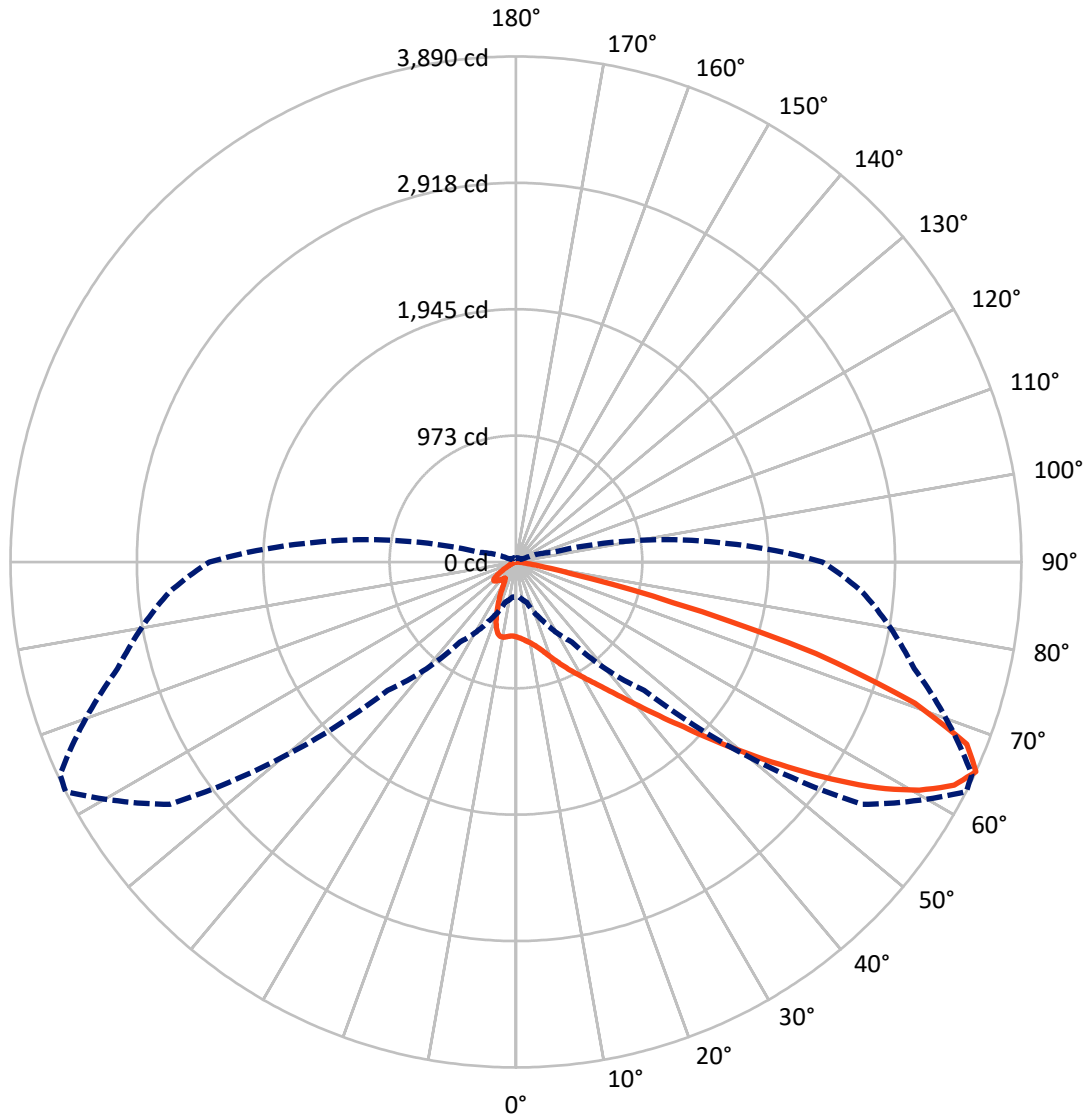
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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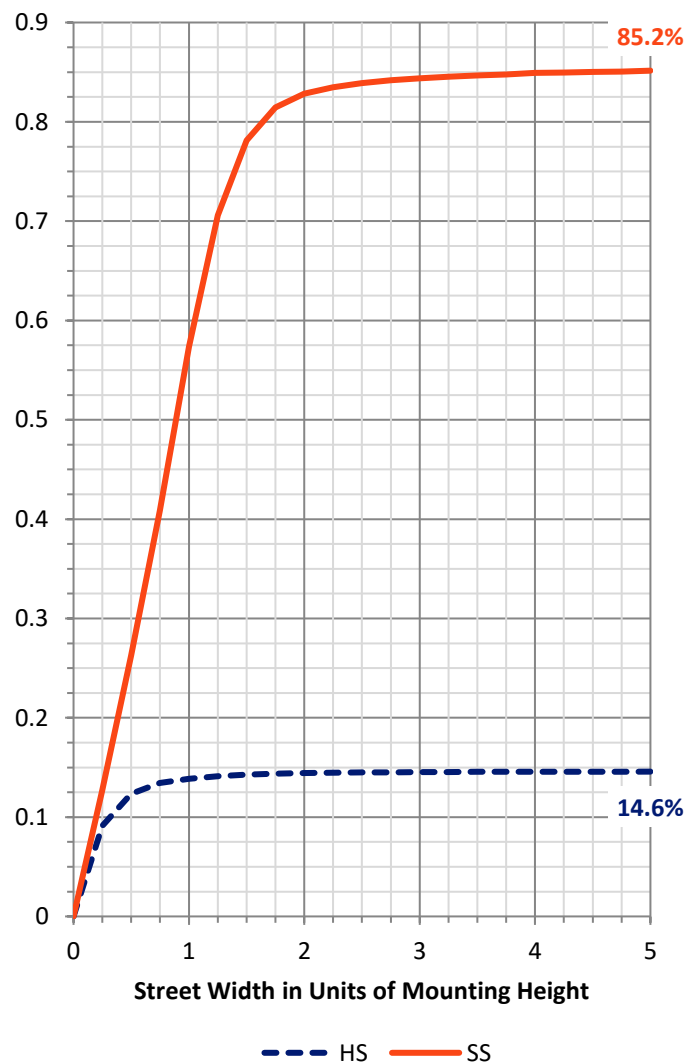
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 686.1 | 0.0 | 686.1 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 3981.7 | 0.0 | 3981.7 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 4667.9 | 0.0 | 4667.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 54.3 | 1.2 |
| 10°-20° | 150.6 | 3.2 |
| 20°-30° | 262.2 | 5.6 |
| 30°-40° | 472.7 | 10.1 |
| 40°-50° | 937.4 | 20.1 |
| 50°-60° | 1277.0 | 27.4 |
| 60°-70° | 1019.3 | 21.8 |
| 70°-80° | 461.2 | 9.9 |
| 80°-90° | 33.2 | 0.7 |
| 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° | 4667.9 | 100.0 |
| 0°-180° | 4667.9 | 100.0 |

Coefficient of Utilization



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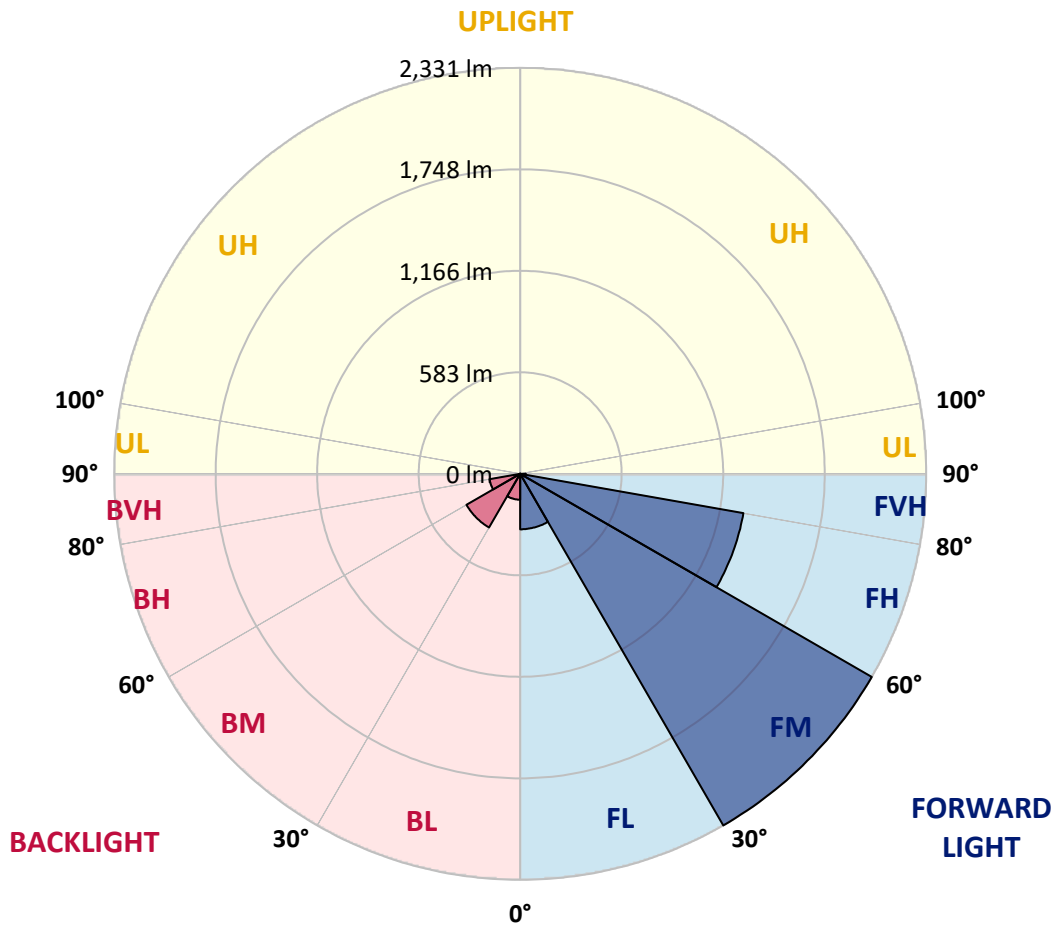
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 318.6 | 6.8 | | | |
| FM (30°-60°) | 2331.0 | 49.9 | | | |
| FH (60°-80°) | 1301.4 | 27.9 | | | G1/1800 |
| FVH (80°-90°) | 30.7 | 0.7 | | | G1/100 |
| BL (0°-30°) | 148.5 | 3.2 | B1/500 | | |
| BM (30°-60°) | 356.1 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 179.1 | 3.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.5 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 63° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 |
| 2.5° | 589.6 | 587.9 | 590.2 | 589.3 | 588.7 | 587.3 | 586.7 | 586.1 | 584.8 | 583.8 | 579.9 |
| 5° | 591.2 | 590.2 | 592.4 | 594.4 | 596.3 | 598.3 | 599.2 | 600.5 | 599.2 | 596.7 | 592.8 |
| 7.5° | 577.7 | 577.1 | 581.9 | 587.6 | 596.3 | 603.7 | 611.7 | 616.2 | 616.5 | 615.6 | 611.4 |
| 10° | 576.8 | 575.1 | 579.9 | 587.0 | 598.3 | 611.4 | 625.6 | 635.2 | 636.4 | 640.6 | 636.1 |
| 12.5° | 591.8 | 590.2 | 597.0 | 604.6 | 616.2 | 630.1 | 647.4 | 660.9 | 662.8 | 668.6 | 665.3 |
| 15° | 617.3 | 615.0 | 622.7 | 632.6 | 647.4 | 663.2 | 681.4 | 693.6 | 695.3 | 702.3 | 696.5 |
| 17.5° | 646.8 | 644.5 | 653.5 | 664.1 | 680.2 | 701.6 | 722.8 | 736.4 | 738.3 | 742.7 | 732.2 |
| 20° | 684.6 | 681.7 | 688.8 | 698.4 | 715.4 | 741.2 | 766.5 | 785.8 | 785.5 | 785.5 | 768.1 |
| 22.5° | 728.7 | 724.2 | 730.2 | 737.9 | 754.0 | 785.2 | 818.9 | 841.6 | 841.6 | 832.7 | 804.1 |
| 25° | 775.8 | 771.3 | 778.1 | 785.2 | 799.3 | 834.7 | 874.1 | 902.4 | 903.6 | 888.3 | 842.7 |
| 27.5° | 835.0 | 829.1 | 834.2 | 842.7 | 851.0 | 886.9 | 933.9 | 966.6 | 967.2 | 943.5 | 879.2 |
| 30° | 948.6 | 932.2 | 916.1 | 907.2 | 911.0 | 946.7 | 996.8 | 1033.1 | 1036.3 | 1003.5 | 919.0 |
| 32.5° | 1156.7 | 1153.5 | 1097.0 | 1023.2 | 984.6 | 1010.9 | 1067.1 | 1110.8 | 1112.7 | 1070.6 | 970.8 |
| 35° | 1480.1 | 1476.2 | 1385.4 | 1244.7 | 1119.1 | 1097.0 | 1152.5 | 1204.3 | 1202.9 | 1155.4 | 1037.9 |
| 37.5° | 1866.1 | 1862.5 | 1742.7 | 1554.6 | 1351.3 | 1227.0 | 1262.7 | 1316.9 | 1325.0 | 1262.7 | 1124.6 |
| 40° | 2195.9 | 2182.7 | 2106.9 | 1925.5 | 1659.6 | 1442.8 | 1419.4 | 1455.3 | 1463.7 | 1389.8 | 1234.7 |
| 42.5° | 2445.6 | 2434.5 | 2395.9 | 2282.6 | 2032.8 | 1762.0 | 1604.0 | 1617.9 | 1627.2 | 1538.5 | 1361.3 |
| 45° | 2575.1 | 2572.5 | 2587.9 | 2577.4 | 2413.0 | 2153.8 | 1868.0 | 1810.6 | 1814.0 | 1703.2 | 1504.8 |
| 47.5° | 2593.5 | 2592.1 | 2662.4 | 2762.0 | 2739.8 | 2595.7 | 2206.8 | 2050.7 | 2038.2 | 1889.2 | 1660.9 |
| 50° | 2485.5 | 2483.0 | 2617.8 | 2804.4 | 2958.3 | 2966.9 | 2591.5 | 2321.4 | 2293.8 | 2081.6 | 1823.7 |
| 52.5° | 2140.9 | 2140.3 | 2361.9 | 2672.4 | 3034.9 | 3291.9 | 2971.7 | 2618.8 | 2572.5 | 2285.1 | 1995.8 |
| 55° | 1647.4 | 1659.3 | 1913.3 | 2280.3 | 2894.9 | 3448.3 | 3313.1 | 2948.9 | 2877.9 | 2490.0 | 2154.4 |
| 57.5° | 1167.0 | 1184.3 | 1435.4 | 1762.4 | 2460.8 | 3355.7 | 3543.9 | 3279.7 | 3203.2 | 2694.2 | 2315.4 |
| 60° | 626.9 | 642.3 | 893.7 | 1283.8 | 1830.8 | 3010.8 | 3665.7 | 3566.8 | 3494.5 | 2888.2 | 2460.5 |
| 62.5° | 373.5 | 378.6 | 482.7 | 828.8 | 1238.3 | 2300.2 | 3613.9 | 3785.4 | 3726.1 | 3051.0 | 2586.7 |
| 65° | 268.1 | 269.1 | 321.4 | 506.1 | 751.7 | 1397.6 | 3251.4 | 3890.1 | 3871.8 | 3173.7 | 2680.2 |
| 67.5° | 225.7 | 225.1 | 246.9 | 336.2 | 512.2 | 700.1 | 2492.0 | 3742.1 | 3819.8 | 3251.4 | 2733.1 |
| 70° | 193.6 | 194.6 | 220.3 | 246.3 | 385.0 | 396.3 | 1238.9 | 3258.2 | 3423.8 | 3272.0 | 2729.9 |
| 72.5° | 144.2 | 147.4 | 171.2 | 224.5 | 290.6 | 272.6 | 427.7 | 2415.8 | 2715.4 | 3082.8 | 2588.3 |
| 75° | 101.8 | 103.4 | 120.4 | 188.8 | 216.8 | 198.4 | 218.3 | 1248.9 | 1632.9 | 2363.4 | 2118.5 |
| 77.5° | 78.3 | 81.3 | 91.2 | 132.0 | 213.5 | 139.4 | 133.6 | 432.2 | 664.1 | 1427.7 | 1452.4 |
| 80° | 42.4 | 47.6 | 65.8 | 95.3 | 150.0 | 98.6 | 66.1 | 172.1 | 225.1 | 667.6 | 560.1 |
| 82.5° | 21.8 | 24.4 | 45.9 | 68.7 | 85.4 | 86.1 | 32.8 | 71.6 | 92.8 | 206.1 | 76.8 |
| 85° | 8.7 | 10.6 | 30.9 | 37.9 | 44.0 | 42.4 | 14.8 | 28.9 | 33.4 | 57.2 | 23.5 |
| 87.5° | 1.9 | 3.2 | 11.3 | 8.7 | 8.3 | 9.0 | 3.5 | 6.8 | 6.5 | 6.8 | 4.2 |
| 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° | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 |
| 2.5° | 579.6 | 578.3 | 574.8 | 570.9 | 566.5 | 563.9 | 562.3 | 562.0 | 559.8 | 558.1 | 559.8 |
| 5° | 589.3 | 587.9 | 581.3 | 573.2 | 564.6 | 557.8 | 551.3 | 545.6 | 537.2 | 535.7 | 534.9 |
| 7.5° | 608.5 | 605.0 | 594.1 | 583.1 | 566.8 | 547.2 | 523.5 | 496.1 | 471.7 | 464.3 | 460.8 |
| 10° | 632.3 | 627.5 | 613.7 | 594.4 | 558.1 | 504.8 | 447.3 | 394.0 | 351.7 | 339.8 | 335.3 |
| 12.5° | 659.3 | 655.1 | 636.8 | 601.2 | 521.8 | 425.2 | 337.2 | 271.0 | 229.9 | 219.7 | 216.8 |
| 15° | 691.4 | 685.3 | 659.9 | 590.9 | 456.9 | 323.1 | 231.5 | 192.4 | 177.6 | 175.7 | 173.7 |
| 17.5° | 725.4 | 715.4 | 680.5 | 553.9 | 369.6 | 229.6 | 178.9 | 167.6 | 161.2 | 159.3 | 158.4 |
| 20° | 756.6 | 743.7 | 692.7 | 498.0 | 276.1 | 178.9 | 160.2 | 152.8 | 147.1 | 144.8 | 143.5 |
| 22.5° | 787.7 | 769.5 | 692.7 | 422.0 | 207.2 | 158.7 | 147.1 | 140.3 | 133.6 | 130.7 | 129.0 |
| 25° | 820.2 | 795.7 | 680.5 | 337.2 | 166.7 | 145.4 | 134.6 | 127.2 | 121.4 | 117.9 | 116.5 |
| 27.5° | 851.7 | 817.9 | 652.5 | 256.9 | 148.3 | 133.9 | 123.0 | 115.9 | 110.5 | 107.9 | 107.9 |
| 30° | 881.5 | 839.8 | 613.4 | 195.0 | 136.4 | 122.7 | 112.4 | 106.3 | 100.9 | 98.3 | 98.6 |
| 32.5° | 922.0 | 867.4 | 571.6 | 159.9 | 126.2 | 112.0 | 102.8 | 97.0 | 92.1 | 90.2 | 90.2 |
| 35° | 978.2 | 908.2 | 535.7 | 157.0 | 117.6 | 103.4 | 94.1 | 88.7 | 83.8 | 82.2 | 82.2 |
| 37.5° | 1057.8 | 974.0 | 516.7 | 176.3 | 110.5 | 95.7 | 87.0 | 81.3 | 76.8 | 75.4 | 75.1 |
| 40° | 1156.1 | 1063.2 | 527.0 | 195.6 | 105.7 | 89.0 | 80.6 | 74.8 | 70.9 | 69.4 | 69.1 |
| 42.5° | 1272.6 | 1173.4 | 583.8 | 210.3 | 102.4 | 83.1 | 74.5 | 68.1 | 65.5 | 64.9 | 64.9 |
| 45° | 1406.5 | 1294.5 | 670.9 | 226.1 | 97.3 | 77.7 | 68.4 | 63.6 | 61.7 | 61.3 | 61.0 |
| 47.5° | 1558.7 | 1427.4 | 771.6 | 245.7 | 92.1 | 72.6 | 63.6 | 60.4 | 58.7 | 58.1 | 58.1 |
| 50° | 1709.7 | 1561.3 | 875.4 | 256.6 | 87.9 | 67.8 | 59.8 | 57.2 | 55.9 | 55.6 | 55.6 |
| 52.5° | 1867.7 | 1699.0 | 959.2 | 246.3 | 84.5 | 63.9 | 56.5 | 54.6 | 53.3 | 53.0 | 53.0 |
| 55° | 2018.3 | 1810.6 | 973.6 | 209.1 | 77.4 | 60.1 | 53.0 | 52.1 | 50.4 | 50.4 | 50.1 |
| 57.5° | 2148.0 | 1866.4 | 871.6 | 153.5 | 70.3 | 54.2 | 49.4 | 48.5 | 47.3 | 46.8 | 46.5 |
| 60° | 2267.2 | 1850.3 | 672.8 | 103.4 | 62.6 | 48.5 | 45.0 | 44.3 | 43.0 | 41.4 | 41.1 |
| 62.5° | 2334.2 | 1779.7 | 460.2 | 67.4 | 54.9 | 42.4 | 39.8 | 39.5 | 36.6 | 33.4 | 32.8 |
| 65° | 2359.7 | 1634.6 | 287.1 | 49.1 | 45.9 | 36.3 | 34.3 | 33.7 | 29.5 | 26.0 | 25.7 |
| 67.5° | 2337.5 | 1395.6 | 144.8 | 38.8 | 36.3 | 30.1 | 28.3 | 28.3 | 25.4 | 22.1 | 21.8 |
| 70° | 2248.8 | 1046.2 | 61.0 | 31.2 | 28.0 | 23.2 | 23.2 | 24.4 | 21.5 | 17.9 | 17.6 |
| 72.5° | 2056.5 | 703.9 | 32.4 | 23.8 | 20.9 | 16.4 | 19.0 | 19.9 | 17.0 | 13.5 | 13.5 |
| 75° | 1634.9 | 429.4 | 22.4 | 17.6 | 13.1 | 11.6 | 14.5 | 15.1 | 11.6 | 9.0 | 8.7 |
| 77.5° | 1118.2 | 246.6 | 15.1 | 11.3 | 8.3 | 6.8 | 9.9 | 9.3 | 6.1 | 4.2 | 4.5 |
| 80° | 491.0 | 102.8 | 8.7 | 5.1 | 3.2 | 2.6 | 3.5 | 2.6 | 1.9 | 1.3 | 1.3 |
| 82.5° | 57.5 | 24.1 | 3.2 | 1.9 | 1.3 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 11.9 | 2.9 | 1.6 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.3 | 0.6 | 0.3 | 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)