

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: P959331

Luminaire Tested: **NVN-SB1A-740-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959331
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-SB1A-740-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 350mA 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: 3718.7 lumens
Efficiency: N/A
Efficacy: 120.3 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

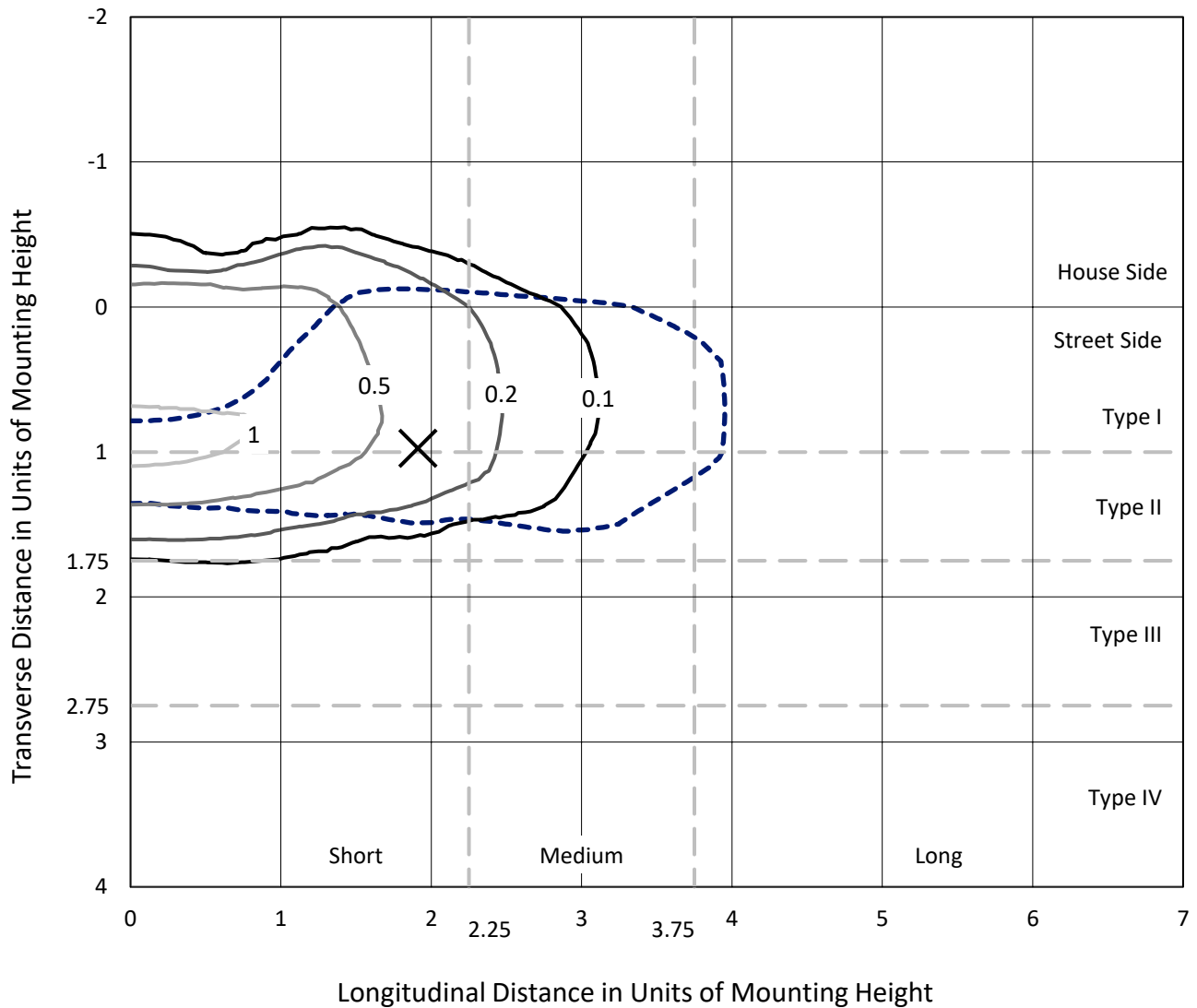
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

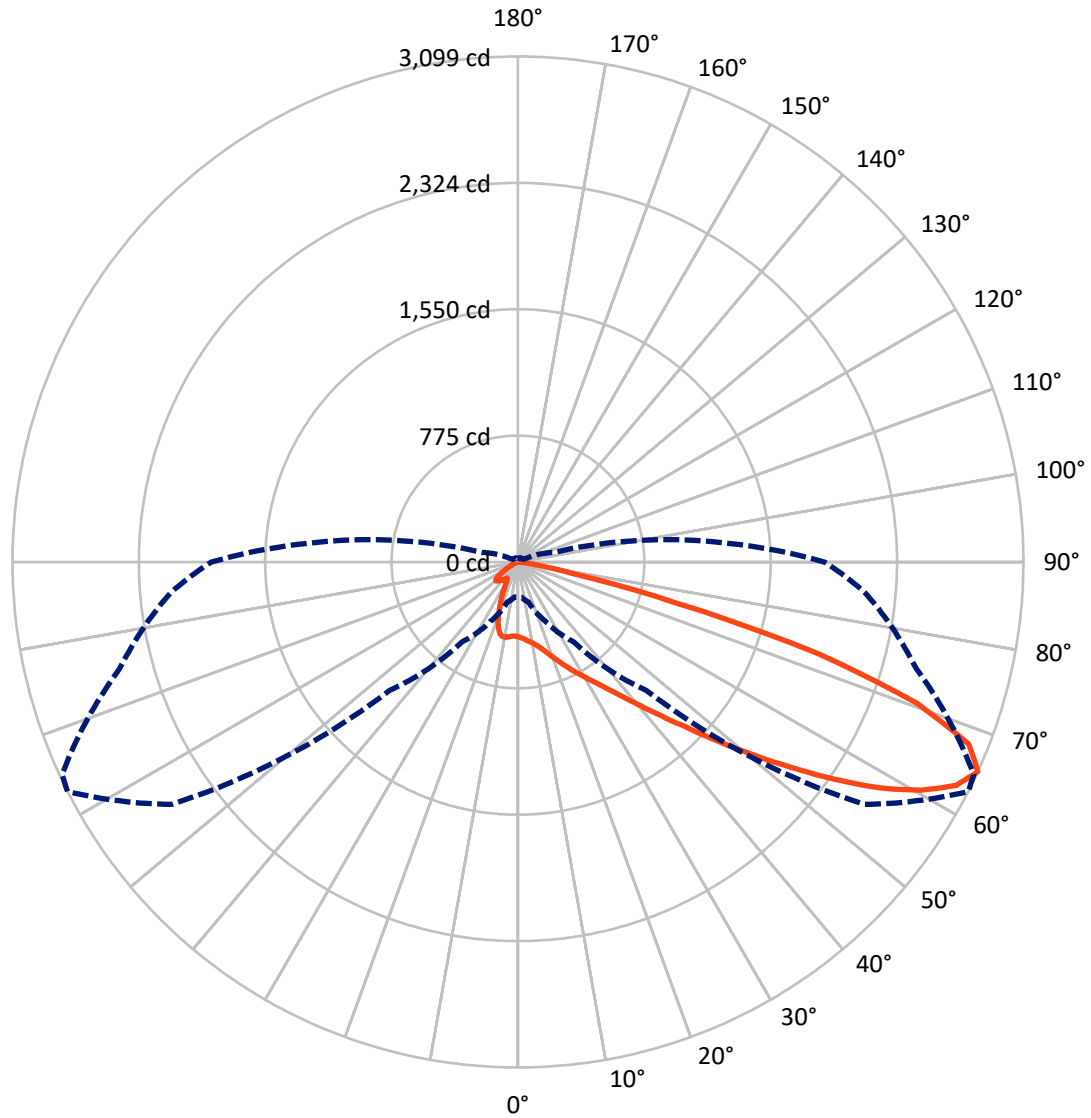
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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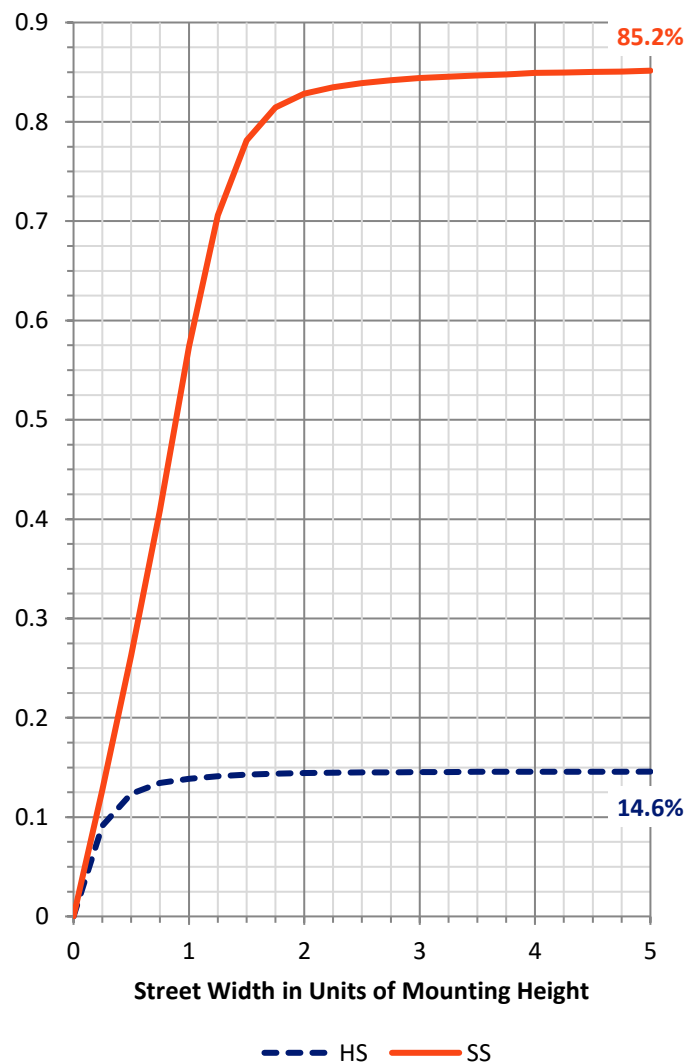
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 546.6 | 0.0 | 546.6 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 3172.1 | 0.0 | 3172.1 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 3718.7 | 0.0 | 3718.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 43.2 | 1.2 |
| 10°-20° | 120.0 | 3.2 |
| 20°-30° | 208.9 | 5.6 |
| 30°-40° | 376.6 | 10.1 |
| 40°-50° | 746.8 | 20.1 |
| 50°-60° | 1017.3 | 27.4 |
| 60°-70° | 812.0 | 21.8 |
| 70°-80° | 367.4 | 9.9 |
| 80°-90° | 26.4 | 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° | 3718.7 | 100.0 |
| 0°-180° | 3718.7 | 100.0 |

Coefficient of Utilization



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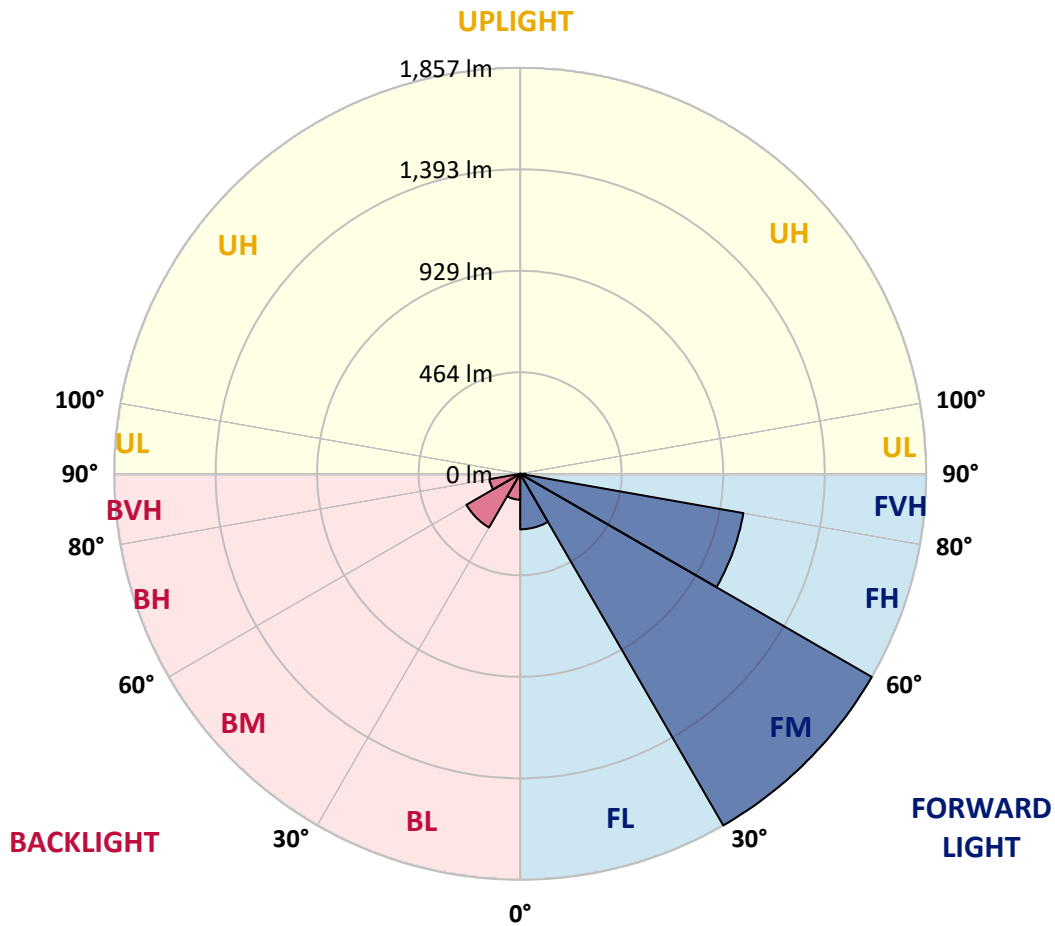
CATALOG NUMBER: NVN-SB1A-740-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 253.8 | 6.8 | | | |
| FM (30°-60°) | 1857.0 | 49.9 | | | |
| FH (60°-80°) | 1036.8 | 27.9 | | | G1/1800 |
| FVH (80°-90°) | 24.5 | 0.7 | | | G1/100 |
| BL (0°-30°) | 118.3 | 3.2 | B1/500 | | |
| BM (30°-60°) | 283.7 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 142.7 | 3.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.0 | 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° | 459.0 | 459.0 | 459.0 | 459.0 | 459.0 | 459.0 | 459.0 | 459.0 | 459.0 | 459.0 | 459.0 |
| 2.5° | 469.7 | 468.4 | 470.2 | 469.4 | 468.9 | 467.9 | 467.4 | 466.9 | 465.9 | 465.1 | 462.1 |
| 5° | 471.0 | 470.2 | 472.0 | 473.6 | 475.1 | 476.6 | 477.3 | 478.4 | 477.3 | 475.3 | 472.2 |
| 7.5° | 460.2 | 459.7 | 463.6 | 468.1 | 475.1 | 480.9 | 487.4 | 491.0 | 491.2 | 490.5 | 487.1 |
| 10° | 459.5 | 458.2 | 462.1 | 467.6 | 476.6 | 487.1 | 498.4 | 506.0 | 507.1 | 510.3 | 506.8 |
| 12.5° | 471.5 | 470.2 | 475.6 | 481.7 | 491.0 | 501.9 | 515.8 | 526.5 | 528.1 | 532.6 | 530.0 |
| 15° | 491.7 | 489.9 | 496.1 | 504.0 | 515.8 | 528.3 | 542.8 | 552.6 | 553.9 | 559.5 | 554.9 |
| 17.5° | 515.3 | 513.4 | 520.6 | 529.1 | 541.8 | 559.0 | 575.8 | 586.6 | 588.1 | 591.7 | 583.3 |
| 20° | 545.4 | 543.1 | 548.8 | 556.5 | 570.0 | 590.5 | 610.7 | 626.0 | 625.8 | 625.8 | 611.9 |
| 22.5° | 580.5 | 576.9 | 581.8 | 587.9 | 600.6 | 625.5 | 652.4 | 670.6 | 670.6 | 663.4 | 640.6 |
| 25° | 618.1 | 614.5 | 619.9 | 625.5 | 636.7 | 664.9 | 696.4 | 718.8 | 719.9 | 707.7 | 671.3 |
| 27.5° | 665.1 | 660.5 | 664.6 | 671.3 | 677.9 | 706.6 | 743.9 | 770.1 | 770.6 | 751.6 | 700.5 |
| 30° | 755.7 | 742.7 | 729.9 | 722.7 | 725.8 | 754.2 | 794.1 | 823.0 | 825.5 | 799.5 | 732.2 |
| 32.5° | 921.5 | 918.9 | 873.9 | 815.1 | 784.3 | 805.3 | 850.1 | 884.9 | 886.4 | 852.9 | 773.4 |
| 35° | 1179.2 | 1176.1 | 1103.6 | 991.6 | 891.5 | 873.9 | 918.2 | 959.4 | 958.4 | 920.4 | 826.9 |
| 37.5° | 1486.7 | 1483.8 | 1388.4 | 1238.5 | 1076.6 | 977.5 | 1005.9 | 1049.2 | 1055.5 | 1005.9 | 896.0 |
| 40° | 1749.4 | 1738.9 | 1678.5 | 1533.9 | 1322.1 | 1149.4 | 1130.8 | 1159.4 | 1166.0 | 1107.2 | 983.7 |
| 42.5° | 1948.4 | 1939.4 | 1908.8 | 1818.5 | 1619.4 | 1403.7 | 1277.9 | 1288.8 | 1296.3 | 1225.7 | 1084.4 |
| 45° | 2051.5 | 2049.5 | 2061.7 | 2053.3 | 1922.3 | 1715.8 | 1488.2 | 1442.4 | 1445.1 | 1356.9 | 1198.8 |
| 47.5° | 2066.1 | 2065.1 | 2121.0 | 2200.4 | 2182.7 | 2067.8 | 1758.1 | 1633.7 | 1623.7 | 1505.0 | 1323.2 |
| 50° | 1980.1 | 1978.0 | 2085.6 | 2234.2 | 2356.7 | 2363.6 | 2064.6 | 1849.4 | 1827.4 | 1658.2 | 1452.8 |
| 52.5° | 1705.6 | 1705.1 | 1881.6 | 2129.0 | 2417.9 | 2622.5 | 2367.4 | 2086.3 | 2049.5 | 1820.5 | 1590.0 |
| 55° | 1312.4 | 1321.8 | 1524.3 | 1816.6 | 2306.4 | 2747.1 | 2639.4 | 2349.3 | 2292.7 | 1983.7 | 1716.4 |
| 57.5° | 929.7 | 943.5 | 1143.6 | 1403.9 | 1960.4 | 2673.4 | 2823.4 | 2612.8 | 2551.9 | 2146.5 | 1844.5 |
| 60° | 499.4 | 511.7 | 712.0 | 1022.8 | 1458.5 | 2398.7 | 2920.3 | 2841.5 | 2783.9 | 2300.9 | 1960.2 |
| 62.5° | 297.6 | 301.7 | 384.5 | 660.3 | 986.5 | 1832.5 | 2879.1 | 3015.8 | 2968.4 | 2430.7 | 2060.7 |
| 65° | 213.6 | 214.4 | 256.0 | 403.2 | 598.9 | 1113.4 | 2590.3 | 3099.1 | 3084.5 | 2528.4 | 2135.2 |
| 67.5° | 179.9 | 179.4 | 196.7 | 267.8 | 408.1 | 557.7 | 1985.2 | 2981.2 | 3043.1 | 2590.3 | 2177.4 |
| 70° | 154.3 | 155.1 | 175.5 | 196.2 | 306.8 | 315.7 | 987.0 | 2595.6 | 2727.6 | 2606.7 | 2174.8 |
| 72.5° | 114.9 | 117.5 | 136.3 | 178.9 | 231.5 | 217.2 | 340.8 | 1924.6 | 2163.3 | 2456.0 | 2062.0 |
| 75° | 81.1 | 82.4 | 95.9 | 150.5 | 172.7 | 158.1 | 173.9 | 995.0 | 1300.9 | 1882.9 | 1687.7 |
| 77.5° | 62.4 | 64.7 | 72.7 | 105.2 | 170.1 | 111.0 | 106.4 | 344.3 | 529.1 | 1137.4 | 1157.1 |
| 80° | 33.7 | 37.8 | 52.5 | 76.0 | 119.5 | 78.5 | 52.7 | 137.1 | 179.4 | 531.9 | 446.2 |
| 82.5° | 17.4 | 19.5 | 36.6 | 54.7 | 68.1 | 68.6 | 26.1 | 57.1 | 73.9 | 164.2 | 61.2 |
| 85° | 6.9 | 8.4 | 24.6 | 30.2 | 35.1 | 33.7 | 11.8 | 23.1 | 26.6 | 45.5 | 18.7 |
| 87.5° | 1.5 | 2.6 | 8.9 | 6.9 | 6.7 | 7.2 | 2.8 | 5.3 | 5.1 | 5.3 | 3.3 |
| 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° | 459.0 | 459.0 | 459.0 | 459.0 | 459.0 | 459.0 | 459.0 | 459.0 | 459.0 | 459.0 | 459.0 |
| 2.5° | 461.8 | 460.7 | 458.0 | 454.9 | 451.3 | 449.3 | 447.9 | 447.7 | 445.9 | 444.6 | 445.9 |
| 5° | 469.4 | 468.4 | 463.1 | 456.6 | 449.8 | 444.3 | 439.2 | 434.7 | 428.0 | 426.7 | 426.2 |
| 7.5° | 484.8 | 482.0 | 473.2 | 464.6 | 451.5 | 435.9 | 417.0 | 395.2 | 375.8 | 369.9 | 367.2 |
| 10° | 503.7 | 499.9 | 488.9 | 473.6 | 444.6 | 402.2 | 356.4 | 313.9 | 280.1 | 270.7 | 267.1 |
| 12.5° | 525.2 | 521.9 | 507.3 | 478.9 | 415.7 | 338.8 | 268.7 | 216.0 | 183.2 | 175.0 | 172.7 |
| 15° | 550.8 | 545.9 | 525.7 | 470.7 | 364.1 | 257.4 | 184.5 | 153.2 | 141.4 | 139.9 | 138.4 |
| 17.5° | 577.9 | 570.0 | 542.1 | 441.3 | 294.5 | 183.0 | 142.5 | 133.6 | 128.4 | 126.9 | 126.1 |
| 20° | 602.7 | 592.4 | 551.9 | 396.8 | 220.0 | 142.5 | 127.6 | 121.8 | 117.2 | 115.4 | 114.4 |
| 22.5° | 627.5 | 612.9 | 551.9 | 336.2 | 165.0 | 126.4 | 117.2 | 111.8 | 106.4 | 104.1 | 102.8 |
| 25° | 653.4 | 634.0 | 542.1 | 268.7 | 132.7 | 115.9 | 107.2 | 101.3 | 96.7 | 93.9 | 92.9 |
| 27.5° | 678.4 | 651.6 | 519.9 | 204.7 | 118.2 | 106.7 | 98.0 | 92.4 | 88.0 | 86.0 | 86.0 |
| 30° | 702.2 | 669.0 | 488.6 | 155.3 | 108.8 | 97.7 | 89.6 | 84.7 | 80.4 | 78.3 | 78.5 |
| 32.5° | 734.5 | 691.0 | 455.4 | 127.4 | 100.6 | 89.3 | 81.9 | 77.3 | 73.4 | 71.9 | 71.9 |
| 35° | 779.2 | 723.4 | 426.7 | 125.0 | 93.6 | 82.4 | 74.9 | 70.6 | 66.7 | 65.5 | 65.5 |
| 37.5° | 842.7 | 775.9 | 411.6 | 140.4 | 88.0 | 76.3 | 69.3 | 64.7 | 61.2 | 60.2 | 59.9 |
| 40° | 921.0 | 847.1 | 419.8 | 155.8 | 84.2 | 70.8 | 64.2 | 59.7 | 56.6 | 55.2 | 55.0 |
| 42.5° | 1013.8 | 934.8 | 465.1 | 167.6 | 81.6 | 66.2 | 59.3 | 54.2 | 52.2 | 51.7 | 51.7 |
| 45° | 1120.5 | 1031.3 | 534.4 | 180.1 | 77.5 | 61.9 | 54.5 | 50.6 | 49.1 | 48.9 | 48.6 |
| 47.5° | 1241.8 | 1137.1 | 614.8 | 195.7 | 73.4 | 57.8 | 50.6 | 48.1 | 46.8 | 46.3 | 46.3 |
| 50° | 1362.0 | 1243.8 | 697.4 | 204.4 | 70.1 | 54.0 | 47.6 | 45.5 | 44.5 | 44.3 | 44.3 |
| 52.5° | 1487.9 | 1353.6 | 764.1 | 196.2 | 67.2 | 50.9 | 45.0 | 43.5 | 42.4 | 42.2 | 42.2 |
| 55° | 1607.9 | 1442.4 | 775.7 | 166.6 | 61.7 | 47.9 | 42.2 | 41.4 | 40.2 | 40.2 | 39.9 |
| 57.5° | 1711.2 | 1486.9 | 694.3 | 122.3 | 56.1 | 43.3 | 39.4 | 38.6 | 37.6 | 37.3 | 37.1 |
| 60° | 1806.2 | 1474.1 | 536.0 | 82.4 | 49.9 | 38.6 | 35.8 | 35.3 | 34.2 | 33.0 | 32.7 |
| 62.5° | 1859.7 | 1417.8 | 366.6 | 53.7 | 43.8 | 33.7 | 31.7 | 31.5 | 29.2 | 26.6 | 26.1 |
| 65° | 1879.8 | 1302.2 | 228.7 | 39.2 | 36.6 | 28.9 | 27.4 | 26.9 | 23.6 | 20.7 | 20.5 |
| 67.5° | 1862.2 | 1111.8 | 115.4 | 31.0 | 28.9 | 24.1 | 22.5 | 22.5 | 20.2 | 17.6 | 17.4 |
| 70° | 1791.6 | 833.5 | 48.6 | 24.8 | 22.2 | 18.4 | 18.4 | 19.5 | 17.1 | 14.3 | 14.0 |
| 72.5° | 1638.4 | 560.8 | 25.8 | 19.0 | 16.6 | 13.0 | 15.1 | 15.9 | 13.5 | 10.8 | 10.8 |
| 75° | 1302.5 | 342.0 | 17.9 | 14.0 | 10.5 | 9.2 | 11.5 | 12.0 | 9.2 | 7.2 | 6.9 |
| 77.5° | 890.8 | 196.5 | 12.0 | 8.9 | 6.7 | 5.3 | 7.9 | 7.4 | 4.8 | 3.3 | 3.6 |
| 80° | 391.1 | 81.9 | 6.9 | 4.1 | 2.6 | 2.0 | 2.8 | 2.0 | 1.5 | 1.0 | 1.0 |
| 82.5° | 45.8 | 19.2 | 2.6 | 1.5 | 1.0 | 0.5 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 9.4 | 2.3 | 1.2 | 0.5 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.7 | 0.5 | 0.2 | 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)