

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: P960014

Luminaire Tested: **NVN-SB1B-835-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1B-835-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5427.4 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

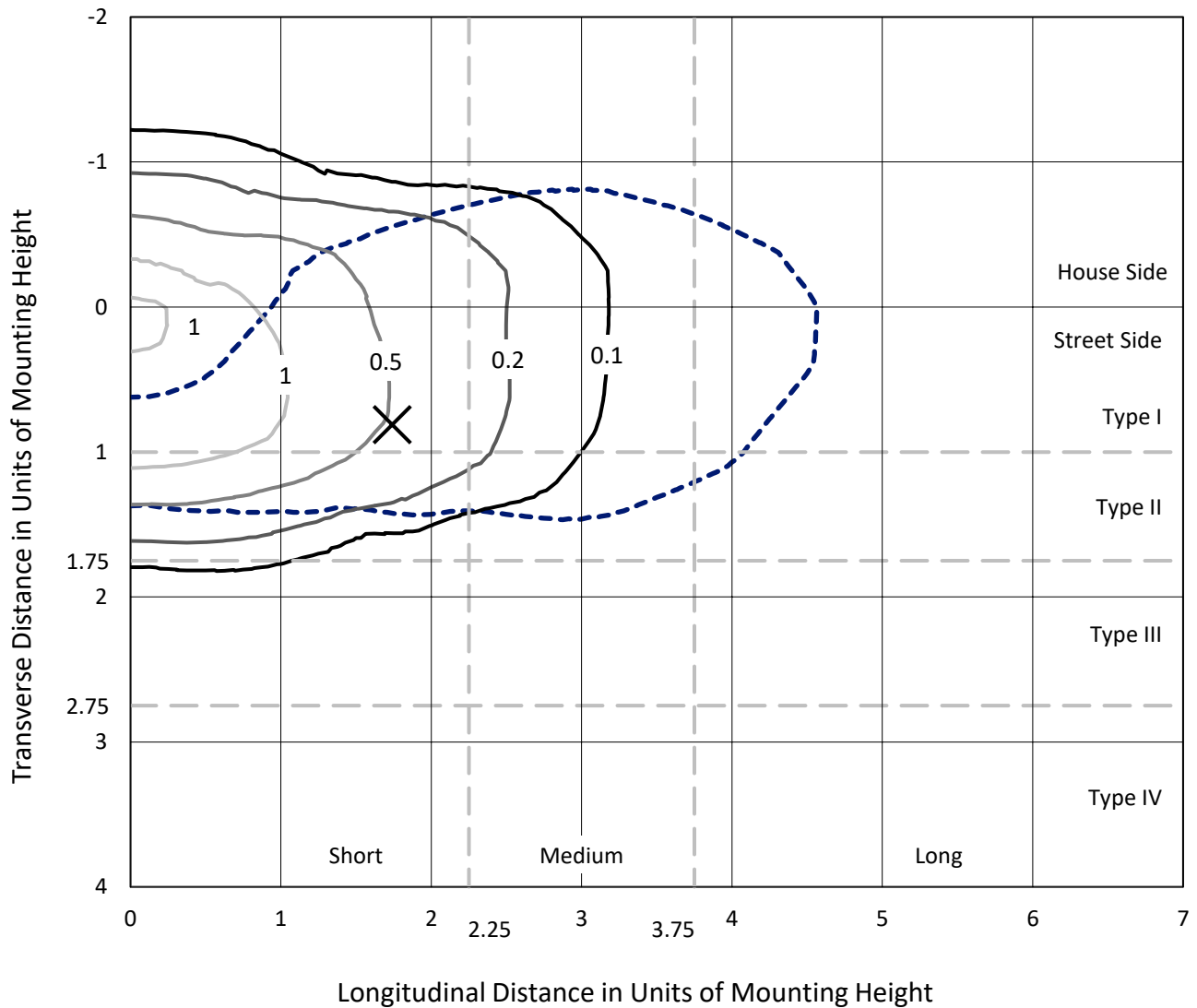
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

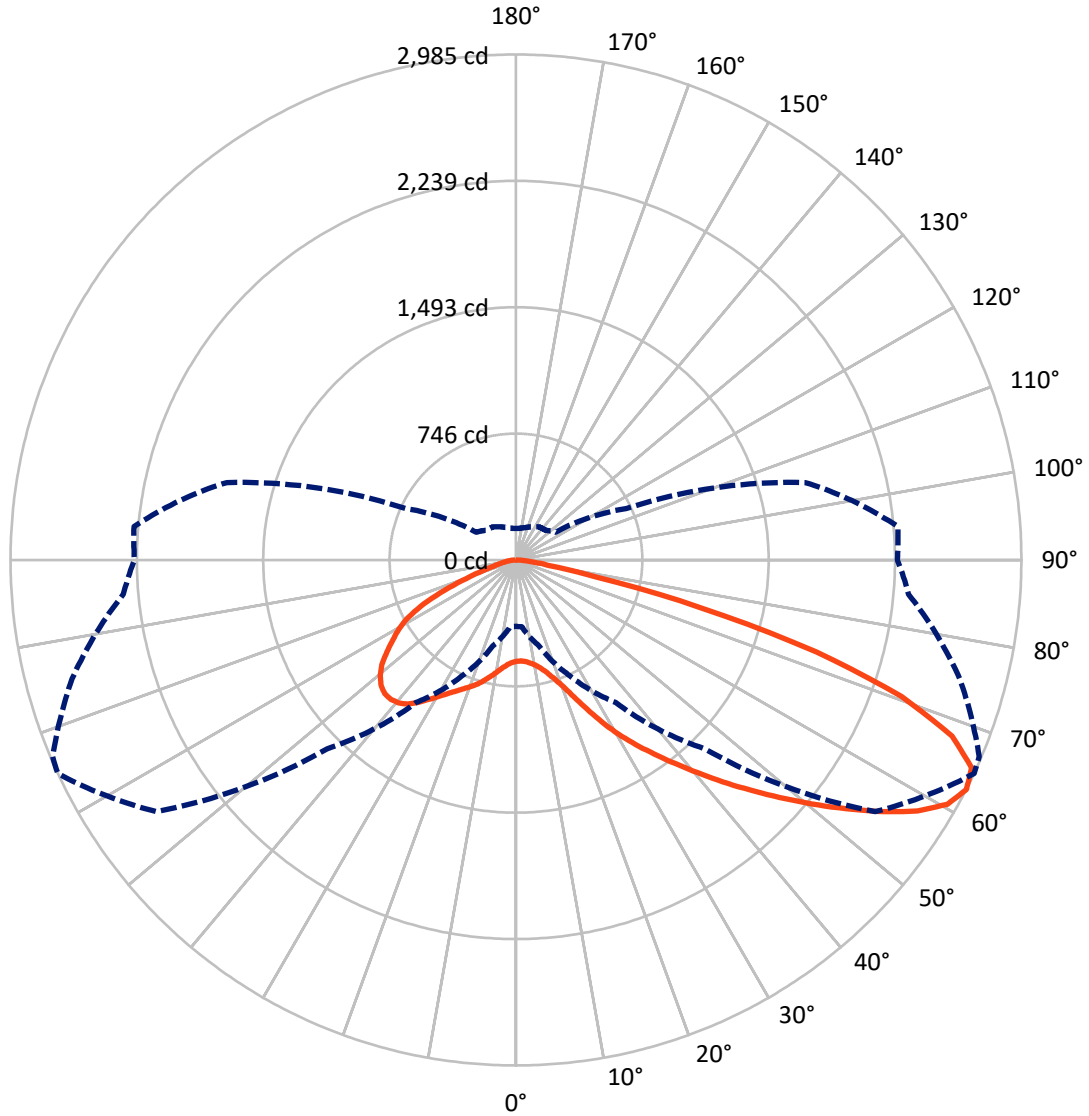
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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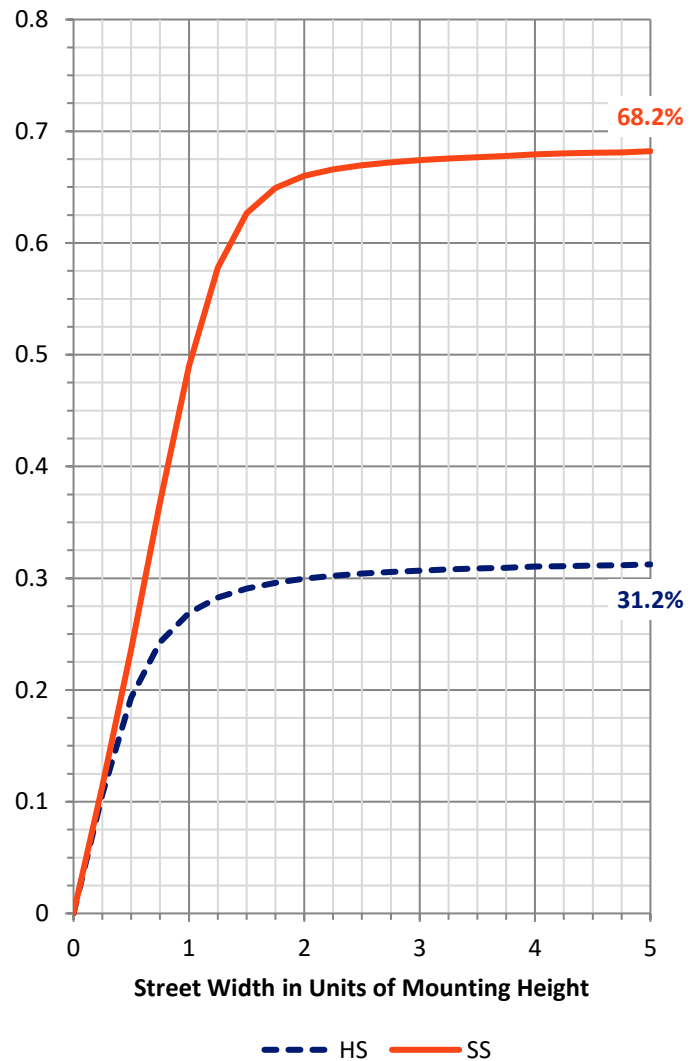
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1712.6 | 0.0 | 1712.6 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 3714.7 | 0.0 | 3714.7 |
| | % Fixture | 68.4 | 0.0 | 68.4 |
| Total | Lumens | 5427.4 | 0.0 | 5427.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 59.6 | 1.1 |
| 10°-20° | 202.2 | 3.7 |
| 20°-30° | 410.0 | 7.6 |
| 30°-40° | 709.5 | 13.1 |
| 40°-50° | 1073.7 | 19.8 |
| 50°-60° | 1258.8 | 23.2 |
| 60°-70° | 1055.3 | 19.4 |
| 70°-80° | 582.6 | 10.7 |
| 80°-90° | 75.7 | 1.4 |
| 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° | 5427.4 | 100.0 |
| 0°-180° | 5427.4 | 100.0 |

Coefficient of Utilization



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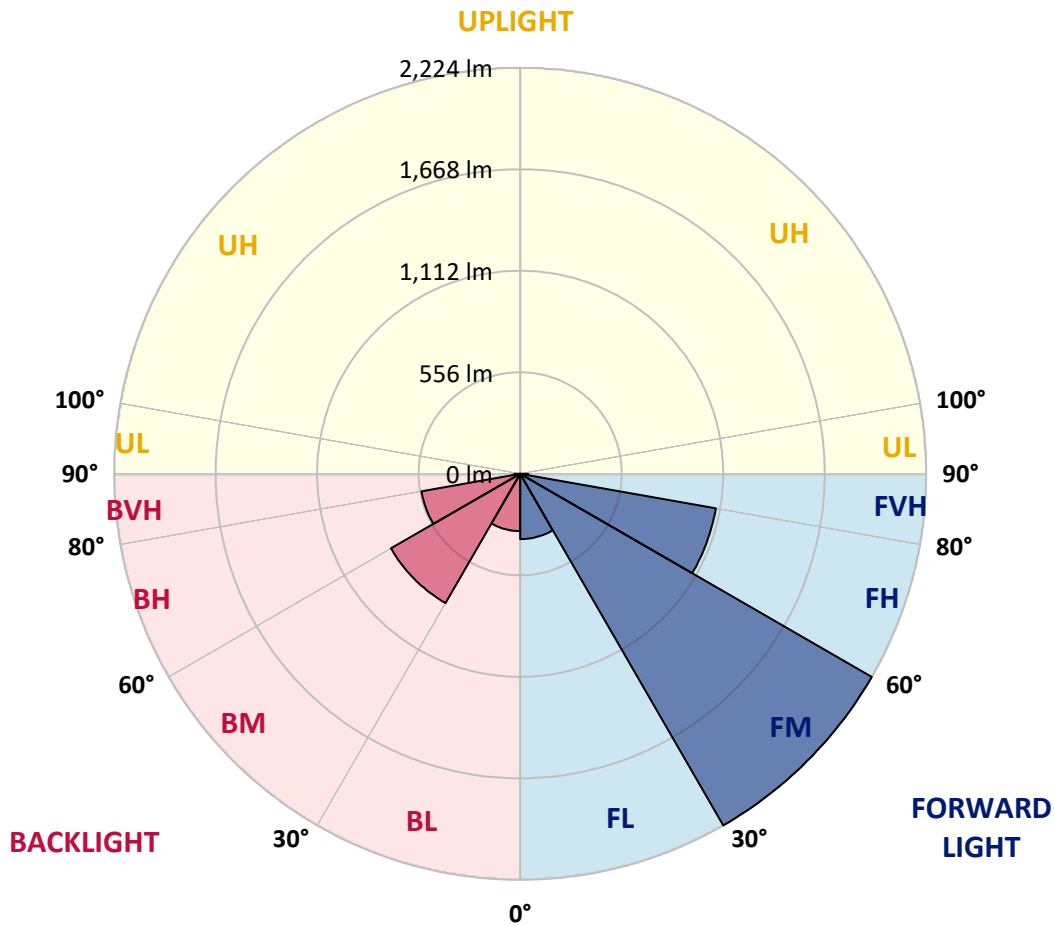
CATALOG NUMBER: NVN-SB1B-835-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 357.7 | 6.6 | | | |
| FM (30°-60°) | 2224.3 | 41.0 | | | |
| FH (60°-80°) | 1088.6 | 20.1 | | | G1/1800 |
| FVH (80°-90°) | 44.1 | 0.8 | | | G1/100 |
| BL (0°-30°) | 314.1 | 5.8 | B1/500 | | |
| BM (30°-60°) | 817.6 | 15.1 | B1/1000 | | |
| BH (60°-80°) | 549.4 | 10.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 31.6 | 0.6 | | | 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 Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 598.1 | 598.1 | 598.1 | 598.1 | 598.1 | 598.1 | 598.1 | 598.1 | 598.1 | 598.1 | 598.1 |
| 2.5° | 594.1 | 592.4 | 593.9 | 593.9 | 594.4 | 594.1 | 596.1 | 596.7 | 597.5 | 599.2 | 599.2 |
| 5° | 588.2 | 587.9 | 590.5 | 592.8 | 595.0 | 597.0 | 599.5 | 603.1 | 603.7 | 605.7 | 608.2 |
| 7.5° | 586.2 | 584.6 | 588.5 | 591.3 | 596.7 | 601.5 | 608.2 | 614.4 | 616.9 | 617.8 | 622.6 |
| 10° | 601.5 | 598.6 | 602.3 | 604.0 | 608.5 | 613.3 | 621.2 | 631.0 | 633.9 | 637.2 | 642.6 |
| 12.5° | 627.4 | 624.2 | 629.7 | 632.1 | 636.3 | 640.6 | 646.0 | 655.5 | 656.9 | 663.1 | 668.2 |
| 15° | 662.9 | 659.2 | 662.6 | 665.6 | 672.7 | 676.6 | 681.9 | 691.3 | 691.3 | 696.1 | 699.8 |
| 17.5° | 710.9 | 706.2 | 708.7 | 709.8 | 714.3 | 720.3 | 729.3 | 737.5 | 741.7 | 739.9 | 734.9 |
| 20° | 782.8 | 776.8 | 776.8 | 771.2 | 769.6 | 774.4 | 786.2 | 797.4 | 802.0 | 793.2 | 780.8 |
| 22.5° | 890.6 | 882.2 | 877.4 | 858.2 | 850.6 | 851.3 | 863.0 | 876.8 | 880.5 | 865.0 | 837.1 |
| 25° | 1027.8 | 1014.5 | 1008.1 | 979.9 | 962.7 | 947.8 | 957.0 | 974.8 | 979.9 | 960.7 | 915.7 |
| 27.5° | 1164.9 | 1165.7 | 1159.6 | 1125.8 | 1097.3 | 1070.0 | 1065.2 | 1083.8 | 1089.2 | 1067.4 | 1011.7 |
| 30° | 1357.2 | 1337.2 | 1325.4 | 1284.8 | 1244.2 | 1206.0 | 1186.3 | 1193.9 | 1195.3 | 1169.4 | 1104.6 |
| 32.5° | 1523.0 | 1518.0 | 1492.6 | 1457.1 | 1405.1 | 1345.1 | 1312.2 | 1300.0 | 1297.8 | 1261.0 | 1184.1 |
| 35° | 1712.0 | 1709.2 | 1682.4 | 1640.2 | 1583.8 | 1500.5 | 1441.1 | 1406.5 | 1403.6 | 1351.9 | 1262.6 |
| 37.5° | 1904.0 | 1904.0 | 1877.8 | 1831.7 | 1773.4 | 1669.2 | 1578.8 | 1523.9 | 1514.8 | 1447.3 | 1342.5 |
| 40° | 2057.2 | 2048.0 | 2052.7 | 2033.3 | 1966.6 | 1855.9 | 1731.7 | 1652.0 | 1639.9 | 1558.8 | 1427.6 |
| 42.5° | 2144.2 | 2141.1 | 2169.8 | 2191.6 | 2164.2 | 2075.8 | 1900.0 | 1790.9 | 1774.0 | 1681.6 | 1525.6 |
| 45° | 2163.7 | 2160.3 | 2211.5 | 2290.9 | 2329.2 | 2292.9 | 2083.1 | 1936.9 | 1916.4 | 1809.9 | 1630.7 |
| 47.5° | 2118.9 | 2112.1 | 2187.4 | 2312.6 | 2435.4 | 2499.3 | 2281.3 | 2095.5 | 2065.7 | 1935.0 | 1738.5 |
| 50° | 1984.3 | 1977.8 | 2091.6 | 2258.0 | 2471.2 | 2639.5 | 2496.5 | 2263.6 | 2218.0 | 2069.1 | 1847.5 |
| 52.5° | 1691.8 | 1694.8 | 1873.1 | 2101.7 | 2424.1 | 2726.8 | 2681.7 | 2440.7 | 2385.8 | 2206.2 | 1949.7 |
| 55° | 1317.7 | 1324.5 | 1543.6 | 1795.4 | 2236.0 | 2713.6 | 2808.2 | 2623.2 | 2568.5 | 2335.2 | 2055.2 |
| 57.5° | 943.6 | 973.4 | 1178.6 | 1427.9 | 1874.7 | 2503.8 | 2835.8 | 2796.6 | 2743.7 | 2475.9 | 2158.5 |
| 60° | 611.6 | 616.9 | 828.1 | 1079.3 | 1427.6 | 2131.0 | 2779.7 | 2928.1 | 2886.7 | 2619.5 | 2245.1 |
| 62.5° | 392.0 | 395.6 | 524.3 | 754.9 | 1027.5 | 1576.6 | 2591.1 | 2985.3 | 2972.6 | 2714.4 | 2328.1 |
| 65° | 288.0 | 285.3 | 352.3 | 499.0 | 692.1 | 972.3 | 2224.8 | 2957.7 | 2982.7 | 2773.9 | 2396.8 |
| 67.5° | 240.5 | 236.6 | 269.5 | 345.5 | 509.9 | 552.2 | 1646.2 | 2778.4 | 2870.1 | 2767.1 | 2447.2 |
| 70° | 219.0 | 215.7 | 235.6 | 256.6 | 397.9 | 369.7 | 829.8 | 2415.4 | 2556.8 | 2690.2 | 2439.0 |
| 72.5° | 185.5 | 179.7 | 206.9 | 227.8 | 309.4 | 283.5 | 343.0 | 1855.4 | 2027.7 | 2443.8 | 2324.2 |
| 75° | 143.9 | 139.9 | 163.3 | 200.5 | 232.6 | 221.3 | 216.8 | 1126.6 | 1314.7 | 1890.0 | 2033.3 |
| 77.5° | 114.1 | 108.6 | 130.1 | 156.3 | 209.2 | 167.0 | 158.0 | 485.1 | 671.6 | 1206.5 | 1521.4 |
| 80° | 85.9 | 81.1 | 98.8 | 123.6 | 160.8 | 125.9 | 102.2 | 197.9 | 253.2 | 611.3 | 765.1 |
| 82.5° | 61.1 | 56.9 | 69.0 | 90.7 | 108.1 | 113.0 | 62.8 | 110.9 | 124.7 | 235.6 | 170.9 |
| 85° | 39.2 | 36.6 | 46.2 | 56.9 | 68.7 | 72.7 | 38.3 | 58.0 | 63.7 | 97.2 | 71.2 |
| 87.5° | 21.4 | 17.4 | 24.8 | 26.4 | 31.8 | 29.0 | 18.3 | 21.1 | 22.9 | 35.2 | 30.1 |
| 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° | 598.1 | 598.1 | 598.1 | 598.1 | 598.1 | 598.1 | 598.1 | 598.1 | 598.1 | 598.1 | 598.1 |
| 2.5° | 600.3 | 601.2 | 604.0 | 604.9 | 606.8 | 609.4 | 611.0 | 612.7 | 612.7 | 614.4 | 614.4 |
| 5° | 608.5 | 610.5 | 616.3 | 619.5 | 624.5 | 629.7 | 632.7 | 636.3 | 638.6 | 639.7 | 640.3 |
| 7.5° | 624.2 | 627.4 | 635.8 | 641.1 | 649.8 | 656.9 | 661.7 | 666.8 | 667.9 | 671.0 | 669.8 |
| 10° | 645.6 | 649.3 | 658.9 | 669.0 | 679.5 | 688.2 | 692.7 | 696.4 | 697.7 | 698.3 | 696.9 |
| 12.5° | 670.1 | 675.5 | 687.9 | 700.3 | 711.2 | 718.8 | 720.0 | 719.1 | 715.2 | 711.9 | 711.9 |
| 15° | 700.3 | 705.1 | 718.8 | 732.4 | 743.1 | 744.5 | 737.5 | 733.0 | 728.2 | 727.3 | 727.3 |
| 17.5° | 736.4 | 738.8 | 751.5 | 764.8 | 765.6 | 760.9 | 750.4 | 746.2 | 741.7 | 738.6 | 738.8 |
| 20° | 778.3 | 777.5 | 786.5 | 792.1 | 786.2 | 771.5 | 755.7 | 748.8 | 744.3 | 740.6 | 740.9 |
| 22.5° | 828.4 | 821.9 | 820.8 | 819.4 | 803.6 | 773.0 | 751.5 | 742.5 | 735.4 | 730.4 | 732.1 |
| 25° | 901.3 | 876.6 | 859.4 | 849.8 | 814.4 | 765.4 | 738.0 | 718.0 | 704.8 | 696.1 | 699.5 |
| 27.5° | 992.6 | 950.9 | 907.5 | 884.2 | 814.4 | 749.9 | 705.4 | 673.0 | 651.3 | 642.3 | 646.8 |
| 30° | 1079.5 | 1036.0 | 972.0 | 925.6 | 812.3 | 724.5 | 652.7 | 607.6 | 582.3 | 573.3 | 578.6 |
| 32.5° | 1153.9 | 1106.3 | 1040.5 | 970.9 | 807.6 | 683.4 | 587.3 | 537.5 | 513.0 | 502.4 | 507.7 |
| 35° | 1222.9 | 1172.2 | 1109.2 | 1020.7 | 794.9 | 623.1 | 515.6 | 477.5 | 450.3 | 433.1 | 438.7 |
| 37.5° | 1293.6 | 1233.3 | 1174.1 | 1065.8 | 772.1 | 552.8 | 460.4 | 428.0 | 395.9 | 372.8 | 379.0 |
| 40° | 1370.4 | 1298.4 | 1243.7 | 1092.5 | 734.6 | 485.7 | 417.6 | 388.1 | 353.9 | 329.4 | 334.3 |
| 42.5° | 1460.3 | 1376.4 | 1321.1 | 1106.3 | 683.4 | 438.2 | 389.7 | 360.7 | 328.6 | 308.6 | 312.5 |
| 45° | 1554.0 | 1462.3 | 1391.8 | 1106.1 | 626.3 | 415.8 | 380.7 | 352.0 | 316.5 | 295.6 | 299.0 |
| 47.5° | 1652.3 | 1552.1 | 1452.9 | 1088.0 | 576.7 | 419.0 | 375.7 | 333.1 | 294.0 | 273.7 | 276.5 |
| 50° | 1750.9 | 1650.4 | 1512.1 | 1054.2 | 555.6 | 412.3 | 356.8 | 306.7 | 260.5 | 242.2 | 243.3 |
| 52.5° | 1848.6 | 1754.8 | 1563.0 | 1006.0 | 534.1 | 387.1 | 332.5 | 272.2 | 246.6 | 234.0 | 234.0 |
| 55° | 1946.9 | 1858.1 | 1618.5 | 935.9 | 480.6 | 357.9 | 292.0 | 259.3 | 235.6 | 224.2 | 223.0 |
| 57.5° | 2045.4 | 1977.5 | 1671.2 | 865.8 | 413.4 | 321.8 | 269.8 | 243.5 | 224.7 | 214.8 | 213.2 |
| 60° | 2147.9 | 2114.1 | 1725.5 | 801.3 | 346.9 | 275.6 | 253.4 | 230.9 | 211.8 | 200.8 | 199.9 |
| 62.5° | 2253.5 | 2264.4 | 1768.0 | 718.3 | 285.8 | 247.5 | 238.8 | 215.7 | 197.1 | 186.7 | 186.4 |
| 65° | 2360.0 | 2409.5 | 1795.9 | 603.1 | 231.8 | 220.8 | 223.0 | 199.1 | 180.2 | 171.2 | 170.9 |
| 67.5° | 2440.1 | 2513.9 | 1788.0 | 456.4 | 190.0 | 195.4 | 203.3 | 181.6 | 163.9 | 156.8 | 157.1 |
| 70° | 2449.1 | 2501.5 | 1710.3 | 312.5 | 159.1 | 170.7 | 181.3 | 164.4 | 146.2 | 141.0 | 141.3 |
| 72.5° | 2329.2 | 2332.6 | 1493.7 | 204.2 | 134.6 | 149.8 | 158.3 | 147.0 | 129.3 | 124.1 | 123.9 |
| 75° | 2014.7 | 1929.0 | 1096.8 | 134.6 | 112.6 | 128.6 | 136.5 | 128.6 | 111.5 | 112.6 | 108.6 |
| 77.5° | 1526.4 | 1366.2 | 665.9 | 95.7 | 94.1 | 108.1 | 118.8 | 113.2 | 98.5 | 110.7 | 97.4 |
| 80° | 786.5 | 739.1 | 297.0 | 71.5 | 74.3 | 86.4 | 97.7 | 90.4 | 78.0 | 74.3 | 67.9 |
| 82.5° | 180.2 | 209.5 | 117.2 | 51.2 | 53.8 | 62.2 | 74.6 | 67.9 | 56.1 | 47.4 | 46.7 |
| 85° | 63.0 | 69.0 | 51.8 | 32.1 | 31.6 | 38.8 | 50.6 | 45.3 | 38.0 | 30.4 | 32.1 |
| 87.5° | 20.0 | 26.1 | 19.5 | 12.9 | 13.5 | 17.4 | 23.4 | 21.4 | 17.7 | 11.6 | 12.1 |
| 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)