

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: P960291

Luminaire Tested: **NVN-SB1C-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1C-727-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7254.9 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

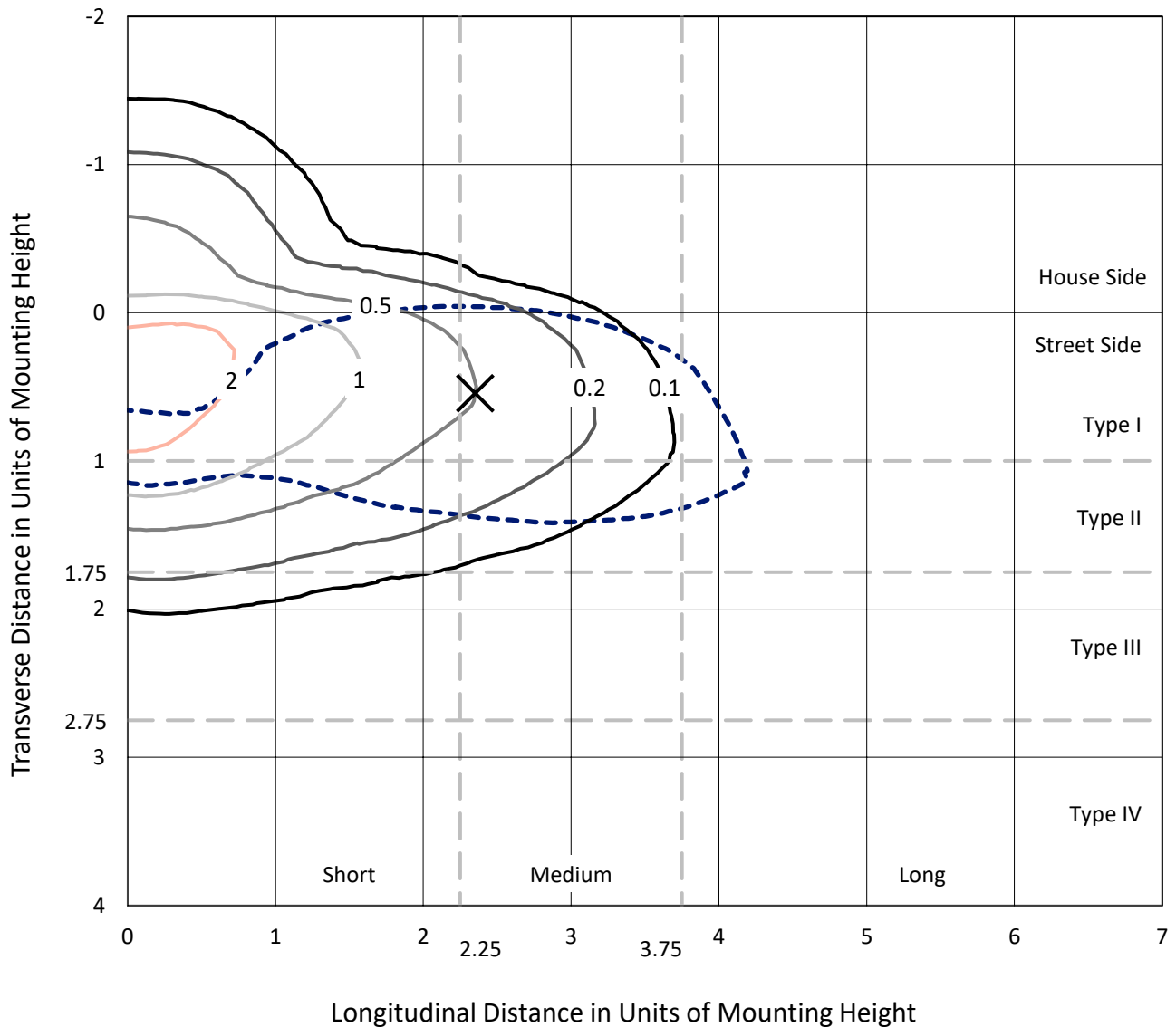
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

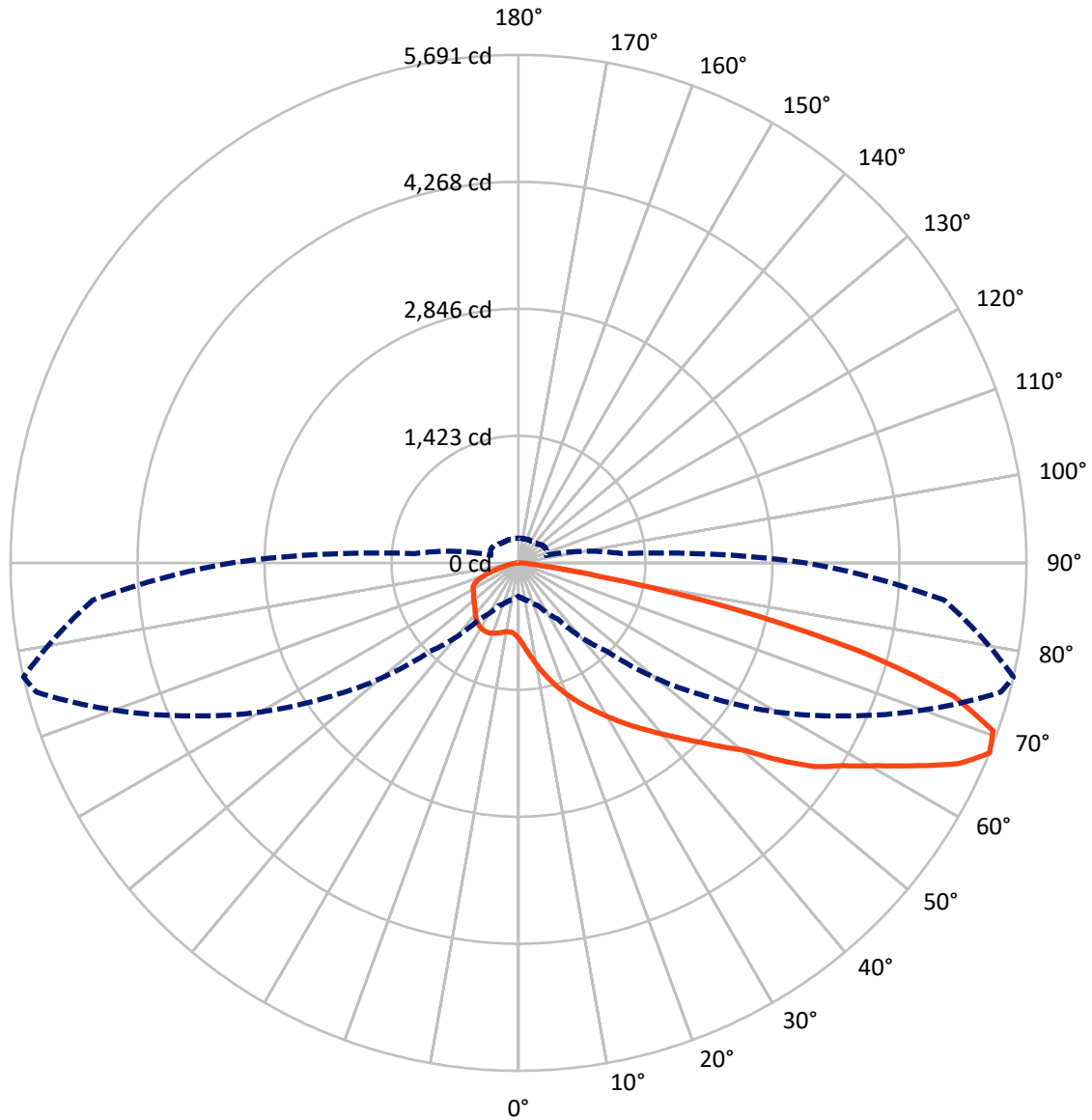
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1372.3 | 0.0 | 1372.3 |
| | % Fixture | 18.9 | 0.0 | 18.9 |
| Street Side | Lumens | 5882.6 | 0.0 | 5882.6 |
| | % Fixture | 81.1 | 0.0 | 81.1 |
| Total | Lumens | 7254.9 | 0.0 | 7254.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 91.2 | 1.3 |
| 10°-20° | 327.8 | 4.5 |
| 20°-30° | 618.9 | 8.5 |
| 30°-40° | 997.0 | 13.7 |
| 40°-50° | 1363.8 | 18.8 |
| 50°-60° | 1538.3 | 21.2 |
| 60°-70° | 1435.8 | 19.8 |
| 70°-80° | 787.1 | 10.8 |
| 80°-90° | 94.9 | 1.3 |
| 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° | 7254.9 | 100.0 |
| 0°-180° | 7254.9 | 100.0 |

Coefficient of Utilization

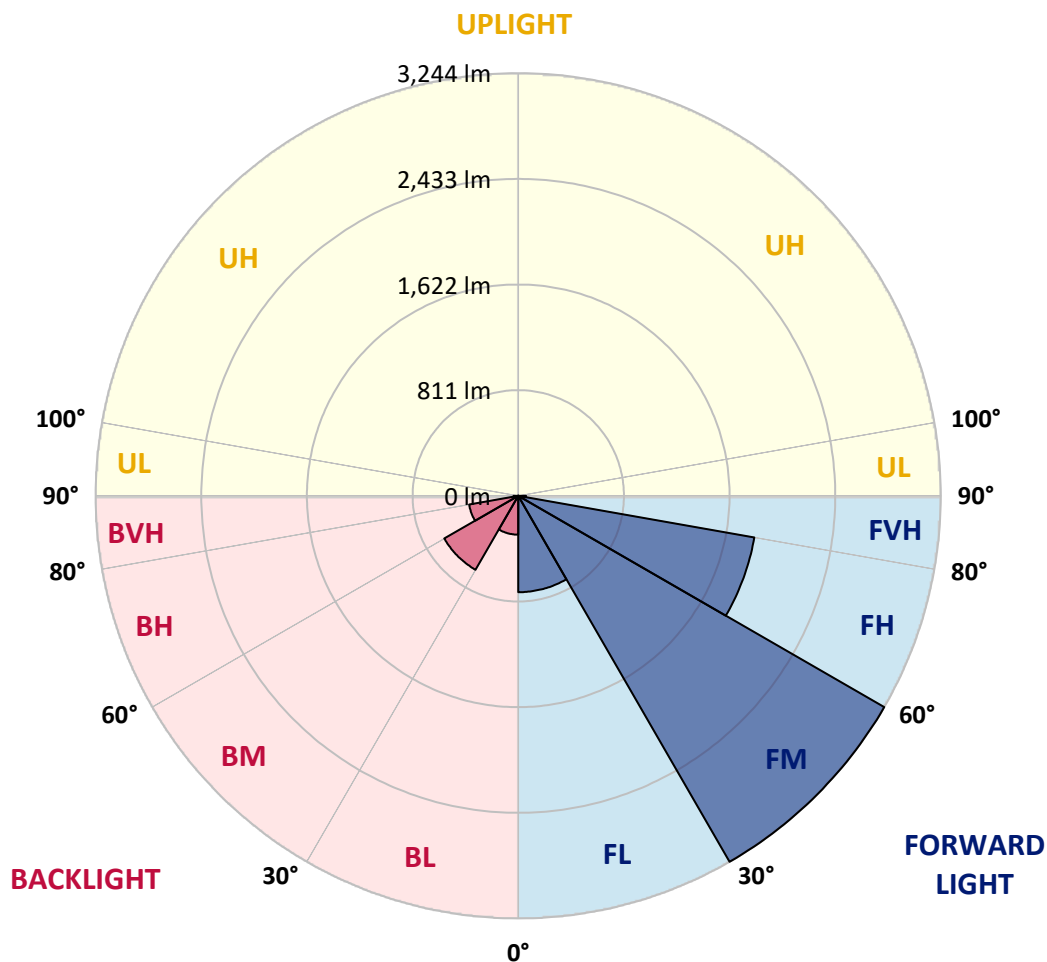


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 739.6 | 10.2 | | | |
| FM (30°-60°) | 3243.6 | 44.7 | | | |
| FH (60°-80°) | 1840.1 | 25.4 | | | G2/5000 |
| FVH (80°-90°) | 59.4 | 0.8 | | | G1/100 |
| BL (0°-30°) | 298.4 | 4.1 | B1/500 | | |
| BM (30°-60°) | 655.5 | 9.0 | B1/1000 | | |
| BH (60°-80°) | 382.9 | 5.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 35.6 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 851.3 | 851.3 | 851.3 | 851.3 | 851.3 | 851.3 | 851.3 | 851.3 | 851.3 | 851.3 | 851.3 |
| 2.5° | 1065.8 | 1073.3 | 1063.9 | 1063.9 | 1032.5 | 1016.0 | 984.5 | 960.6 | 917.5 | 910.0 | 881.6 |
| 5° | 1259.8 | 1269.2 | 1256.0 | 1250.4 | 1213.4 | 1179.3 | 1126.5 | 1074.4 | 997.6 | 989.8 | 922.8 |
| 7.5° | 1410.0 | 1422.0 | 1410.4 | 1404.4 | 1371.4 | 1333.2 | 1271.4 | 1198.7 | 1090.5 | 1075.2 | 978.2 |
| 10° | 1532.5 | 1534.3 | 1530.5 | 1532.8 | 1507.0 | 1475.5 | 1412.2 | 1327.6 | 1192.4 | 1171.5 | 1045.2 |
| 12.5° | 1601.8 | 1610.4 | 1617.9 | 1631.3 | 1626.8 | 1607.3 | 1550.4 | 1449.4 | 1300.2 | 1273.3 | 1118.3 |
| 15° | 1634.3 | 1649.3 | 1666.1 | 1697.2 | 1722.3 | 1727.2 | 1683.8 | 1580.0 | 1410.0 | 1377.4 | 1192.0 |
| 17.5° | 1645.9 | 1660.2 | 1686.7 | 1731.6 | 1785.6 | 1821.9 | 1802.5 | 1706.9 | 1518.5 | 1481.1 | 1269.6 |
| 20° | 1704.7 | 1708.8 | 1725.0 | 1767.6 | 1826.0 | 1886.3 | 1901.0 | 1829.0 | 1626.1 | 1583.7 | 1349.7 |
| 22.5° | 1830.5 | 1822.3 | 1826.8 | 1846.2 | 1888.3 | 1946.7 | 1980.0 | 1936.9 | 1736.6 | 1687.9 | 1430.6 |
| 25° | 2038.4 | 2014.4 | 1990.4 | 1968.0 | 1989.3 | 2022.3 | 2060.1 | 2044.8 | 1852.3 | 1790.5 | 1512.2 |
| 27.5° | 2300.9 | 2271.7 | 2218.9 | 2145.1 | 2119.3 | 2130.9 | 2147.8 | 2144.7 | 1959.4 | 1896.9 | 1596.4 |
| 30° | 2559.3 | 2525.2 | 2462.4 | 2355.6 | 2287.4 | 2256.7 | 2244.0 | 2235.3 | 2075.8 | 2009.2 | 1681.5 |
| 32.5° | 2765.7 | 2738.7 | 2676.9 | 2557.5 | 2458.6 | 2406.2 | 2363.9 | 2333.1 | 2197.5 | 2130.9 | 1771.4 |
| 35° | 2946.2 | 2921.0 | 2850.3 | 2719.9 | 2612.5 | 2556.7 | 2501.3 | 2435.7 | 2324.1 | 2256.7 | 1868.0 |
| 37.5° | 3111.0 | 3085.9 | 2988.9 | 2853.3 | 2745.1 | 2706.5 | 2657.0 | 2545.8 | 2451.1 | 2387.4 | 1970.3 |
| 40° | 3215.0 | 3209.5 | 3118.8 | 2965.2 | 2852.9 | 2833.8 | 2817.3 | 2673.5 | 2591.9 | 2532.7 | 2082.6 |
| 42.5° | 3241.7 | 3254.0 | 3182.1 | 3055.9 | 2948.8 | 2933.4 | 2972.0 | 2818.1 | 2750.0 | 2693.4 | 2209.9 |
| 45° | 3177.6 | 3213.2 | 3166.0 | 3080.2 | 3017.0 | 3008.7 | 3109.0 | 2976.1 | 2924.8 | 2873.2 | 2363.4 |
| 47.5° | 3015.4 | 3075.7 | 3056.2 | 3044.2 | 3035.3 | 3070.9 | 3229.7 | 3143.9 | 3123.0 | 3078.0 | 2538.7 |
| 50° | 2688.2 | 2802.4 | 2836.5 | 2912.1 | 2998.9 | 3119.2 | 3339.3 | 3327.0 | 3354.4 | 3309.0 | 2752.2 |
| 52.5° | 2122.3 | 2279.6 | 2477.3 | 2666.7 | 2887.3 | 3103.1 | 3460.0 | 3590.0 | 3705.3 | 3680.6 | 3091.5 |
| 55° | 1751.9 | 1822.7 | 1974.8 | 2322.2 | 2670.9 | 3035.3 | 3514.3 | 3802.2 | 4053.6 | 4031.4 | 3348.8 |
| 57.5° | 1467.3 | 1530.5 | 1624.2 | 1914.4 | 2343.6 | 2881.4 | 3547.9 | 3931.8 | 4292.1 | 4289.8 | 3602.7 |
| 60° | 1162.0 | 1229.1 | 1325.0 | 1530.5 | 1961.2 | 2615.5 | 3540.5 | 4079.4 | 4596.6 | 4615.3 | 3912.3 |
| 62.5° | 817.5 | 891.3 | 997.6 | 1189.4 | 1570.6 | 2271.0 | 3387.7 | 4186.1 | 4955.0 | 5005.9 | 4285.0 |
| 65° | 537.4 | 586.1 | 666.2 | 831.8 | 1170.3 | 1827.9 | 3096.0 | 4199.9 | 5338.4 | 5424.6 | 4634.7 |
| 67.5° | 376.8 | 395.4 | 442.7 | 532.5 | 771.4 | 1401.8 | 2631.2 | 4056.5 | 5594.2 | 5691.2 | 4786.4 |
| 70° | 294.0 | 303.3 | 327.3 | 363.3 | 484.6 | 942.6 | 2016.3 | 3683.5 | 5539.5 | 5640.7 | 4628.1 |
| 72.5° | 253.9 | 262.9 | 271.9 | 276.3 | 325.0 | 582.0 | 1365.8 | 3079.8 | 5024.7 | 5093.1 | 4023.9 |
| 75° | 230.3 | 232.6 | 240.1 | 238.5 | 247.9 | 377.5 | 788.3 | 2244.0 | 3964.4 | 3940.8 | 2970.6 |
| 77.5° | 193.6 | 196.6 | 209.0 | 207.0 | 220.2 | 258.0 | 409.3 | 1448.2 | 2570.2 | 2409.9 | 1653.4 |
| 80° | 164.0 | 165.5 | 179.0 | 176.8 | 191.4 | 186.9 | 209.0 | 738.1 | 1090.2 | 923.5 | 476.7 |
| 82.5° | 56.9 | 70.4 | 136.7 | 140.8 | 146.1 | 113.1 | 120.5 | 301.1 | 332.9 | 255.0 | 100.0 |
| 85° | 27.7 | 29.6 | 69.7 | 98.9 | 98.5 | 56.9 | 58.8 | 107.5 | 104.9 | 82.4 | 33.3 |
| 87.5° | 4.5 | 5.6 | 8.2 | 38.5 | 30.7 | 15.0 | 20.2 | 21.0 | 21.7 | 18.8 | 7.5 |
| 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° | 851.3 | 851.3 | 851.3 | 851.3 | 851.3 | 851.3 | 851.3 | 851.3 | 851.3 | 851.3 | 851.3 |
| 2.5° | 860.6 | 841.8 | 802.6 | 766.2 | 737.8 | 710.4 | 695.1 | 681.9 | 674.4 | 673.0 | 673.0 |
| 5° | 883.9 | 845.2 | 773.7 | 713.4 | 674.1 | 644.9 | 629.6 | 619.8 | 614.9 | 611.9 | 611.5 |
| 7.5° | 917.2 | 860.6 | 758.7 | 690.2 | 649.0 | 628.0 | 620.1 | 618.7 | 618.3 | 618.7 | 619.8 |
| 10° | 963.2 | 885.7 | 757.3 | 684.6 | 650.2 | 638.5 | 638.2 | 638.5 | 640.0 | 640.4 | 640.7 |
| 12.5° | 1013.0 | 911.5 | 763.2 | 689.4 | 664.4 | 657.9 | 656.8 | 656.5 | 657.6 | 658.4 | 658.8 |
| 15° | 1067.3 | 945.6 | 773.4 | 700.0 | 680.1 | 673.3 | 672.2 | 669.9 | 669.6 | 669.2 | 668.8 |
| 17.5° | 1123.1 | 979.3 | 784.5 | 711.1 | 690.2 | 680.8 | 676.7 | 671.5 | 667.4 | 666.2 | 667.4 |
| 20° | 1179.7 | 1012.6 | 792.4 | 716.8 | 691.0 | 677.8 | 669.6 | 660.6 | 653.5 | 649.3 | 650.9 |
| 22.5° | 1239.9 | 1047.4 | 797.3 | 715.2 | 684.2 | 666.2 | 651.3 | 640.7 | 629.9 | 622.8 | 623.2 |
| 25° | 1298.8 | 1077.8 | 796.9 | 707.5 | 671.1 | 648.2 | 629.1 | 615.7 | 600.6 | 593.2 | 593.2 |
| 27.5° | 1355.3 | 1105.2 | 787.6 | 693.6 | 652.4 | 626.9 | 604.0 | 587.9 | 573.4 | 566.2 | 565.9 |
| 30° | 1413.7 | 1128.0 | 773.0 | 673.3 | 630.3 | 602.2 | 577.1 | 563.2 | 550.1 | 543.4 | 543.0 |
| 32.5° | 1471.8 | 1148.9 | 752.3 | 648.2 | 604.9 | 577.9 | 553.1 | 540.4 | 532.5 | 532.5 | 532.9 |
| 35° | 1533.2 | 1163.6 | 725.0 | 619.0 | 577.9 | 552.0 | 532.5 | 525.0 | 524.3 | 519.8 | 518.6 |
| 37.5° | 1598.0 | 1172.9 | 691.7 | 589.1 | 551.2 | 527.0 | 520.9 | 512.0 | 504.4 | 494.7 | 493.2 |
| 40° | 1666.1 | 1182.2 | 651.6 | 558.0 | 523.2 | 509.7 | 507.1 | 495.1 | 473.8 | 449.8 | 446.4 |
| 42.5° | 1748.9 | 1188.7 | 610.1 | 527.0 | 493.5 | 489.1 | 492.8 | 472.2 | 438.2 | 420.1 | 420.6 |
| 45° | 1844.8 | 1199.1 | 571.8 | 496.2 | 463.3 | 463.3 | 479.0 | 452.0 | 423.9 | 412.7 | 414.6 |
| 47.5° | 1969.1 | 1223.4 | 536.3 | 462.5 | 435.2 | 442.7 | 448.2 | 427.6 | 411.9 | 398.1 | 397.7 |
| 50° | 2148.9 | 1281.9 | 499.6 | 428.4 | 413.8 | 428.8 | 421.0 | 409.0 | 390.6 | 379.4 | 378.2 |
| 52.5° | 2372.1 | 1316.3 | 467.0 | 397.7 | 395.4 | 410.4 | 399.2 | 388.0 | 374.1 | 359.2 | 356.2 |
| 55° | 2524.1 | 1322.8 | 439.6 | 375.3 | 383.1 | 381.6 | 377.5 | 367.4 | 359.9 | 340.0 | 340.4 |
| 57.5° | 2694.1 | 1335.5 | 417.2 | 361.7 | 375.3 | 358.7 | 357.3 | 348.7 | 339.0 | 325.4 | 320.9 |
| 60° | 2897.5 | 1355.3 | 397.7 | 356.5 | 368.5 | 343.8 | 336.3 | 332.9 | 323.2 | 316.4 | 318.4 |
| 62.5° | 3119.2 | 1373.3 | 377.9 | 357.3 | 360.6 | 329.2 | 318.0 | 316.8 | 310.9 | 308.6 | 308.6 |
| 65° | 3270.5 | 1324.2 | 353.1 | 356.5 | 348.3 | 314.2 | 300.0 | 299.6 | 294.7 | 294.0 | 293.6 |
| 67.5° | 3217.7 | 1168.8 | 319.8 | 346.0 | 335.6 | 299.2 | 283.5 | 282.0 | 275.6 | 276.0 | 276.0 |
| 70° | 2953.2 | 947.1 | 273.8 | 320.2 | 319.8 | 285.8 | 266.3 | 261.4 | 252.8 | 254.3 | 255.7 |
| 72.5° | 2457.4 | 701.8 | 212.0 | 277.2 | 294.7 | 273.4 | 246.4 | 238.5 | 227.7 | 229.2 | 228.8 |
| 75° | 1774.8 | 477.1 | 154.3 | 210.8 | 256.6 | 258.8 | 226.9 | 213.5 | 200.4 | 202.6 | 203.4 |
| 77.5° | 908.2 | 270.4 | 113.5 | 145.3 | 201.5 | 235.1 | 209.3 | 191.4 | 188.4 | 209.3 | 206.3 |
| 80° | 296.2 | 135.6 | 78.6 | 101.9 | 132.2 | 192.5 | 183.5 | 162.9 | 162.2 | 167.1 | 143.4 |
| 82.5° | 88.4 | 57.3 | 50.5 | 67.0 | 73.0 | 147.6 | 158.4 | 123.2 | 106.0 | 111.6 | 115.3 |
| 85° | 30.3 | 27.7 | 28.8 | 33.3 | 34.8 | 86.5 | 110.8 | 81.6 | 77.2 | 85.0 | 83.8 |
| 87.5° | 7.1 | 9.7 | 8.2 | 7.5 | 7.5 | 21.0 | 43.0 | 34.0 | 47.2 | 31.5 | 30.3 |
| 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)