

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: P962110

Luminaire Tested: **NVN-SB2B-835-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2B-835-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10463.2 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

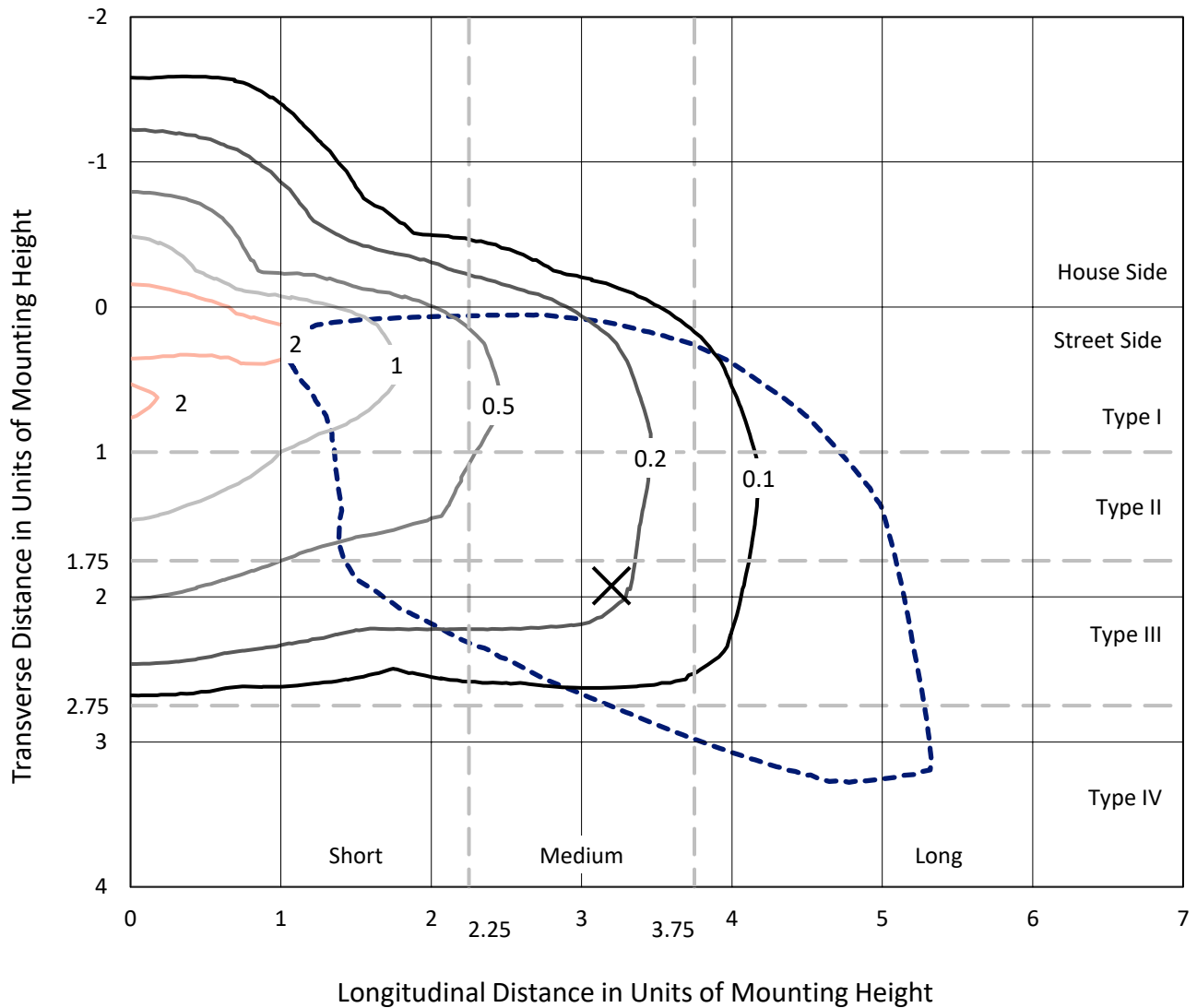
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

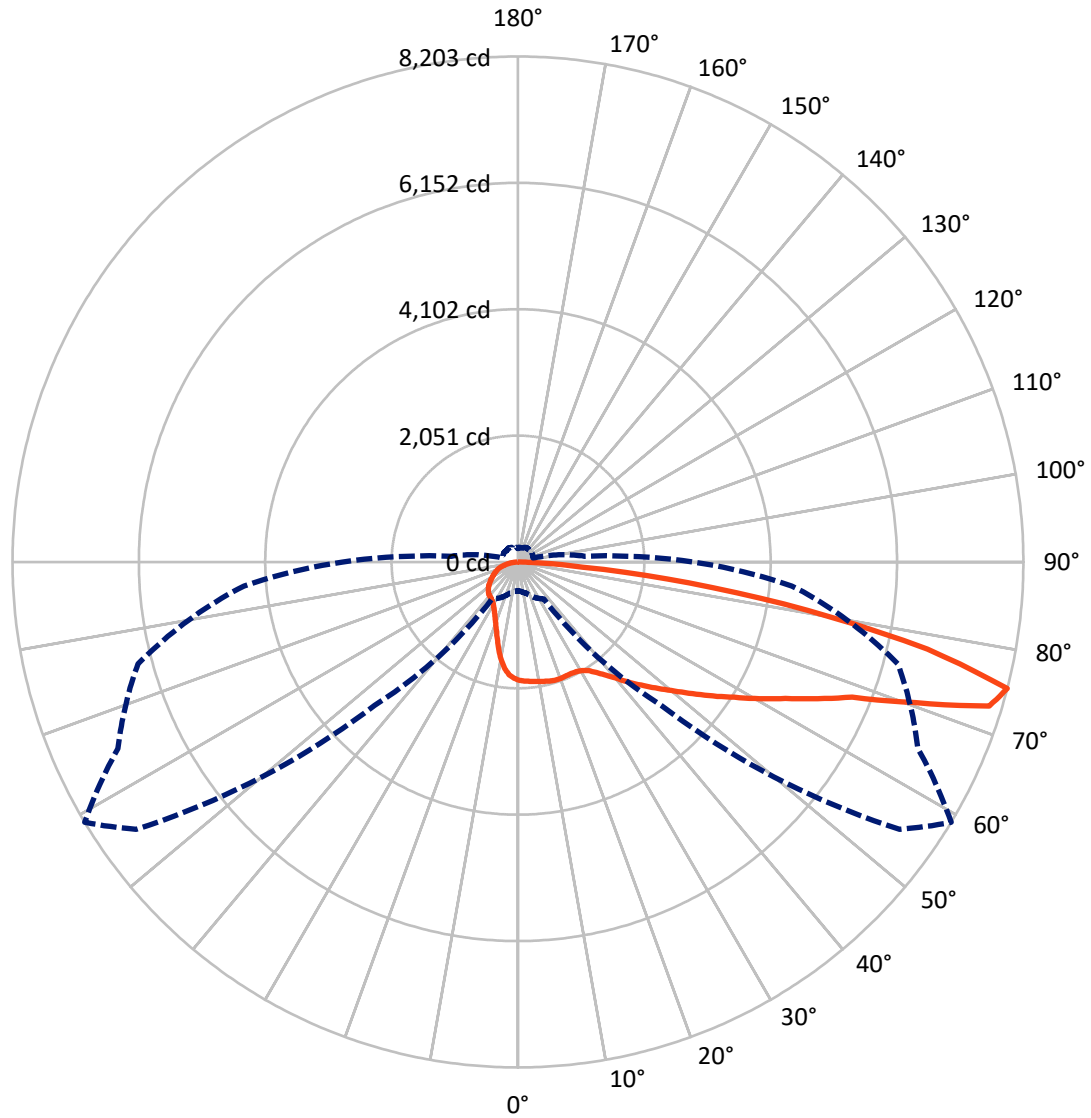
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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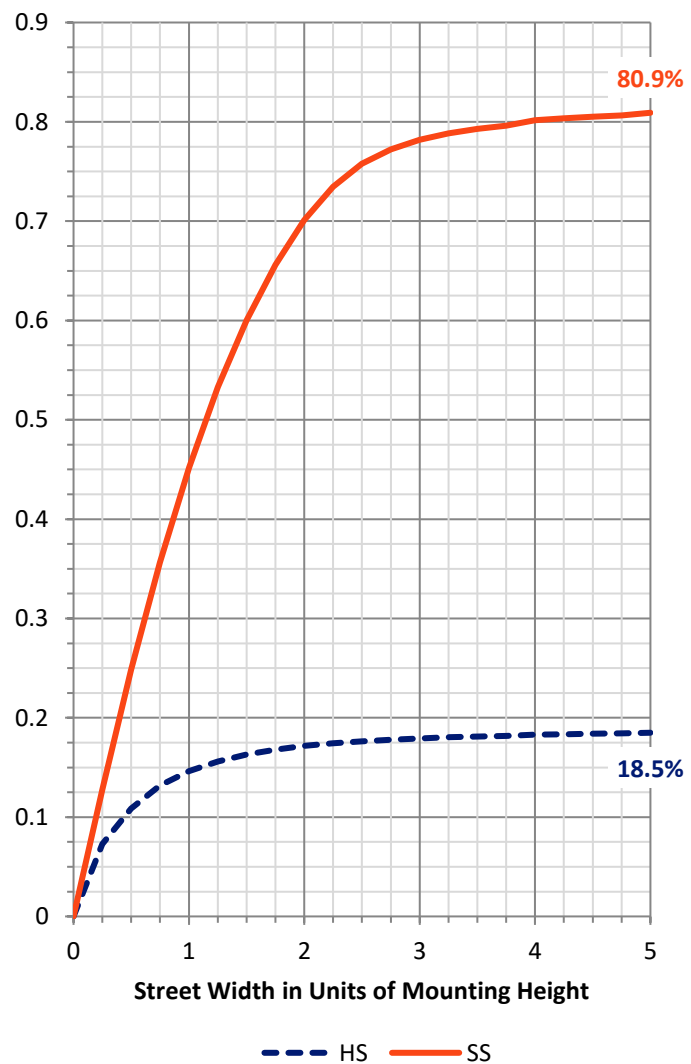
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1962.4 | 0.0 | 1962.4 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 8500.7 | 0.0 | 8500.7 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 10463.2 | 0.0 | 10463.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 172.2 | 1.6 |
| 10°-20° | 440.2 | 4.2 |
| 20°-30° | 668.6 | 6.4 |
| 30°-40° | 993.8 | 9.5 |
| 40°-50° | 1478.0 | 14.1 |
| 50°-60° | 2006.2 | 19.2 |
| 60°-70° | 2449.2 | 23.4 |
| 70°-80° | 1922.1 | 18.4 |
| 80°-90° | 333.0 | 3.2 |
| 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° | 10463.2 | 100.0 |
| 0°-180° | 10463.2 | 100.0 |

Coefficient of Utilization



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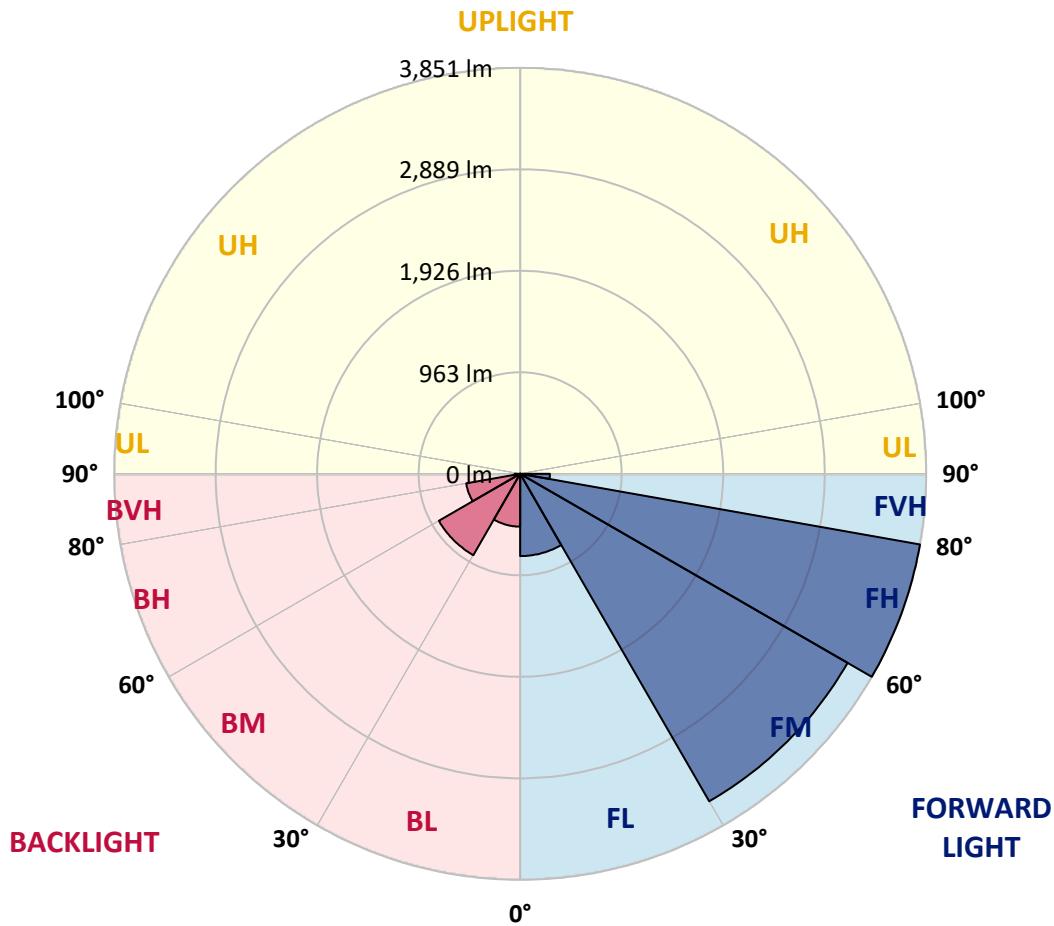
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 780.1 | 7.5 | | | |
| FM (30°-60°) | 3587.2 | 34.3 | | | |
| FH (60°-80°) | 3851.4 | 36.8 | | | G2/5000 |
| FVH (80°-90°) | 282.0 | 2.7 | | | G3/500 |
| BL (0°-30°) | 500.8 | 4.8 | B2/1000 | | |
| BM (30°-60°) | 890.8 | 8.5 | B1/1000 | | |
| BH (60°-80°) | 519.9 | 5.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 51.0 | 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-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 |
| 2.5° | 1936.8 | 1930.1 | 1936.8 | 1934.0 | 1932.8 | 1930.6 | 1931.2 | 1935.1 | 1932.8 | 1935.7 | 1926.1 |
| 5° | 1923.9 | 1919.9 | 1926.7 | 1925.0 | 1932.3 | 1933.5 | 1940.7 | 1945.2 | 1948.1 | 1948.6 | 1941.4 |
| 7.5° | 1902.5 | 1898.5 | 1908.1 | 1916.0 | 1931.7 | 1936.2 | 1951.5 | 1958.8 | 1962.7 | 1969.4 | 1958.8 |
| 10° | 1824.3 | 1822.6 | 1846.2 | 1876.1 | 1913.2 | 1936.2 | 1959.3 | 1971.7 | 1977.9 | 1995.9 | 1983.6 |
| 12.5° | 1685.8 | 1688.1 | 1719.0 | 1776.4 | 1850.7 | 1925.0 | 1968.3 | 1986.3 | 1995.9 | 2018.4 | 2012.8 |
| 15° | 1553.5 | 1553.0 | 1586.7 | 1648.1 | 1752.2 | 1875.4 | 1972.8 | 2003.8 | 2020.2 | 2053.4 | 2048.9 |
| 17.5° | 1476.9 | 1474.7 | 1498.3 | 1545.1 | 1641.8 | 1799.5 | 1961.5 | 2013.4 | 2048.3 | 2089.9 | 2086.0 |
| 20° | 1462.9 | 1458.4 | 1470.8 | 1493.8 | 1562.5 | 1716.2 | 1932.3 | 2013.4 | 2070.8 | 2124.8 | 2122.6 |
| 22.5° | 1514.1 | 1506.7 | 1501.7 | 1499.0 | 1529.3 | 1647.5 | 1899.1 | 2006.6 | 2104.0 | 2174.9 | 2171.0 |
| 25° | 1617.1 | 1605.9 | 1579.9 | 1554.6 | 1545.6 | 1616.5 | 1869.8 | 2004.9 | 2153.5 | 2242.5 | 2227.8 |
| 27.5° | 1783.7 | 1769.7 | 1717.3 | 1656.5 | 1601.9 | 1632.3 | 1856.9 | 2015.0 | 2208.2 | 2313.9 | 2284.6 |
| 30° | 1990.2 | 1975.1 | 1909.3 | 1815.8 | 1717.9 | 1690.8 | 1873.2 | 2044.9 | 2278.0 | 2409.1 | 2351.7 |
| 32.5° | 2175.5 | 2158.5 | 2102.3 | 2007.2 | 1874.9 | 1792.2 | 1925.0 | 2101.8 | 2387.6 | 2541.4 | 2452.4 |
| 35° | 2339.9 | 2320.1 | 2269.5 | 2181.7 | 2067.4 | 1934.6 | 2018.4 | 2202.5 | 2543.6 | 2756.3 | 2589.1 |
| 37.5° | 2500.8 | 2477.7 | 2422.6 | 2329.7 | 2249.8 | 2124.2 | 2147.4 | 2332.0 | 2750.7 | 3017.5 | 2770.5 |
| 40° | 2680.9 | 2647.7 | 2580.7 | 2489.0 | 2411.3 | 2346.6 | 2316.7 | 2490.6 | 2961.2 | 3309.1 | 2996.7 |
| 42.5° | 2855.4 | 2823.9 | 2743.9 | 2665.7 | 2568.3 | 2549.8 | 2513.2 | 2676.4 | 3191.4 | 3629.3 | 3226.4 |
| 45° | 3043.4 | 3005.7 | 2908.8 | 2809.8 | 2748.4 | 2684.9 | 2703.4 | 2862.2 | 3417.1 | 3955.8 | 3467.3 |
| 47.5° | 3219.6 | 3177.4 | 3063.1 | 2952.8 | 2919.0 | 2798.6 | 2877.9 | 3066.5 | 3651.9 | 4286.8 | 3705.9 |
| 50° | 3314.7 | 3273.0 | 3177.9 | 3078.3 | 3051.8 | 2938.7 | 3067.0 | 3291.1 | 3897.9 | 4616.6 | 3935.0 |
| 52.5° | 3394.1 | 3349.1 | 3224.6 | 3169.5 | 3161.6 | 3091.3 | 3300.1 | 3547.7 | 4143.8 | 4908.2 | 4156.2 |
| 55° | 3478.5 | 3428.4 | 3269.6 | 3220.1 | 3256.2 | 3262.4 | 3576.4 | 3838.7 | 4403.8 | 5192.4 | 4365.1 |
| 57.5° | 3575.9 | 3512.3 | 3313.0 | 3262.9 | 3348.5 | 3462.8 | 3893.9 | 4140.5 | 4659.4 | 5455.9 | 4550.8 |
| 60° | 3667.7 | 3603.5 | 3396.3 | 3331.0 | 3448.1 | 3695.2 | 4258.1 | 4505.7 | 4948.7 | 5690.6 | 4726.4 |
| 62.5° | 3685.6 | 3632.7 | 3462.8 | 3462.1 | 3583.2 | 3966.5 | 4689.3 | 4874.4 | 5201.5 | 5922.4 | 4884.0 |
| 65° | 3373.8 | 3340.6 | 3239.8 | 3457.1 | 3776.8 | 4357.2 | 5169.4 | 5346.1 | 5522.8 | 6125.1 | 5022.4 |
| 67.5° | 2567.8 | 2572.3 | 2565.0 | 2984.3 | 3620.3 | 4918.4 | 5864.5 | 5851.0 | 5919.7 | 6352.5 | 5181.8 |
| 70° | 1174.1 | 1200.6 | 1372.8 | 2060.0 | 2900.4 | 4983.0 | 7013.9 | 6838.8 | 6417.8 | 6646.9 | 5319.6 |
| 72.5° | 634.4 | 654.6 | 725.0 | 997.9 | 1743.7 | 4430.4 | 7872.8 | 7997.2 | 7080.3 | 6845.1 | 5168.3 |
| 75° | 465.5 | 476.7 | 525.7 | 634.4 | 732.3 | 3292.8 | 7564.9 | 8203.2 | 7163.0 | 6382.9 | 4463.0 |
| 77.5° | 348.4 | 353.5 | 393.4 | 502.7 | 374.8 | 1735.8 | 6044.6 | 6793.8 | 6131.9 | 5244.2 | 3296.7 |
| 80° | 252.8 | 258.4 | 288.2 | 377.1 | 262.8 | 634.9 | 4150.5 | 4768.6 | 4199.5 | 3342.8 | 1643.0 |
| 82.5° | 174.5 | 176.7 | 189.7 | 256.7 | 183.5 | 246.5 | 2355.0 | 2796.3 | 2344.4 | 1173.0 | 443.5 |
| 85° | 105.3 | 108.0 | 113.7 | 149.8 | 104.1 | 117.1 | 1016.5 | 1051.4 | 700.8 | 280.3 | 137.9 |
| 87.5° | 43.4 | 46.1 | 50.6 | 63.0 | 41.1 | 32.6 | 167.7 | 210.5 | 131.1 | 82.2 | 42.7 |
| 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° | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 |
| 2.5° | 1923.3 | 1919.4 | 1908.7 | 1894.0 | 1880.6 | 1863.7 | 1856.4 | 1850.1 | 1844.5 | 1833.8 | 1828.7 |
| 5° | 1935.1 | 1924.4 | 1895.7 | 1858.6 | 1816.4 | 1770.2 | 1725.2 | 1694.2 | 1667.8 | 1648.1 | 1631.7 |
| 7.5° | 1953.1 | 1932.8 | 1880.6 | 1804.5 | 1707.8 | 1608.6 | 1519.2 | 1455.6 | 1407.7 | 1390.3 | 1359.9 |
| 10° | 1971.7 | 1947.5 | 1856.4 | 1722.4 | 1555.2 | 1402.6 | 1283.9 | 1218.6 | 1180.3 | 1168.0 | 1148.8 |
| 12.5° | 1993.6 | 1958.2 | 1818.7 | 1608.1 | 1384.7 | 1217.5 | 1113.9 | 1075.6 | 1056.0 | 1049.2 | 1050.8 |
| 15° | 2025.7 | 1967.2 | 1761.8 | 1465.1 | 1222.0 | 1082.4 | 1015.4 | 988.9 | 978.8 | 978.3 | 980.5 |
| 17.5° | 2050.0 | 1968.9 | 1673.4 | 1312.0 | 1097.1 | 1000.8 | 945.7 | 935.5 | 942.3 | 952.3 | 956.3 |
| 20° | 2077.0 | 1953.8 | 1557.5 | 1172.5 | 1009.2 | 929.3 | 906.2 | 913.0 | 929.3 | 943.9 | 948.9 |
| 22.5° | 2096.1 | 1926.1 | 1417.3 | 1063.8 | 933.3 | 888.2 | 887.0 | 901.2 | 910.2 | 917.5 | 921.4 |
| 25° | 2113.0 | 1879.4 | 1268.7 | 972.6 | 870.7 | 863.5 | 875.9 | 871.4 | 865.1 | 871.4 | 875.2 |
| 27.5° | 2125.3 | 1805.6 | 1135.9 | 892.7 | 826.9 | 846.5 | 839.3 | 829.1 | 828.5 | 831.9 | 837.5 |
| 30° | 2121.4 | 1707.1 | 1026.6 | 816.7 | 795.9 | 815.1 | 797.6 | 795.9 | 794.2 | 795.9 | 802.1 |
| 32.5° | 2121.4 | 1595.2 | 942.8 | 764.3 | 776.2 | 768.9 | 767.2 | 763.2 | 756.4 | 755.9 | 763.2 |
| 35° | 2133.2 | 1483.2 | 870.7 | 736.3 | 759.8 | 742.4 | 743.5 | 734.0 | 719.9 | 713.2 | 719.9 |
| 37.5° | 2157.4 | 1393.1 | 799.3 | 722.7 | 731.1 | 730.6 | 726.1 | 709.8 | 685.0 | 663.6 | 671.0 |
| 40° | 2216.0 | 1366.6 | 750.3 | 716.6 | 717.6 | 724.4 | 712.6 | 681.1 | 624.7 | 589.9 | 594.4 |
| 42.5° | 2307.8 | 1411.1 | 739.6 | 701.3 | 708.7 | 715.4 | 692.3 | 619.2 | 579.2 | 558.3 | 558.3 |
| 45° | 2424.2 | 1488.8 | 762.7 | 679.4 | 687.3 | 699.0 | 630.4 | 595.5 | 577.5 | 578.1 | 580.9 |
| 47.5° | 2571.7 | 1570.4 | 805.4 | 660.2 | 656.3 | 663.1 | 589.3 | 568.0 | 543.1 | 549.4 | 565.1 |
| 50° | 2742.3 | 1653.1 | 846.0 | 634.4 | 622.0 | 600.0 | 562.8 | 542.6 | 511.1 | 496.4 | 500.4 |
| 52.5° | 2926.9 | 1733.1 | 862.3 | 602.8 | 584.9 | 559.4 | 544.9 | 520.1 | 481.9 | 457.6 | 457.0 |
| 55° | 3102.0 | 1805.6 | 844.3 | 565.1 | 547.7 | 528.0 | 525.7 | 510.6 | 469.4 | 435.6 | 435.6 |
| 57.5° | 3267.4 | 1866.4 | 799.3 | 526.8 | 509.9 | 498.2 | 513.3 | 506.0 | 454.3 | 410.9 | 408.7 |
| 60° | 3407.6 | 1908.1 | 734.0 | 488.0 | 476.2 | 470.0 | 493.0 | 490.8 | 432.9 | 384.5 | 382.7 |
| 62.5° | 3519.0 | 1924.4 | 661.9 | 450.9 | 448.0 | 436.8 | 464.9 | 464.9 | 405.8 | 358.5 | 356.9 |
| 65° | 3606.3 | 1908.7 | 588.8 | 414.3 | 419.9 | 403.0 | 430.6 | 427.2 | 377.1 | 335.5 | 333.2 |
| 67.5° | 3683.4 | 1856.9 | 507.7 | 378.2 | 391.2 | 369.8 | 394.5 | 386.7 | 345.6 | 312.4 | 310.2 |
| 70° | 3717.8 | 1736.5 | 415.4 | 342.2 | 358.0 | 337.1 | 358.5 | 343.9 | 310.2 | 287.6 | 283.1 |
| 72.5° | 3442.0 | 1443.2 | 327.0 | 304.5 | 318.1 | 301.1 | 319.7 | 302.8 | 271.8 | 261.7 | 253.3 |
| 75° | 2847.6 | 1082.9 | 251.6 | 263.4 | 273.6 | 260.7 | 273.0 | 260.7 | 232.5 | 239.7 | 218.9 |
| 77.5° | 2067.9 | 731.1 | 192.5 | 220.1 | 224.6 | 217.8 | 228.5 | 214.4 | 189.1 | 187.5 | 179.0 |
| 80° | 1028.4 | 428.3 | 150.9 | 173.9 | 172.2 | 167.7 | 180.1 | 173.3 | 152.0 | 161.0 | 159.3 |
| 82.5° | 297.8 | 183.5 | 109.8 | 122.2 | 118.8 | 119.9 | 128.9 | 132.2 | 198.1 | 196.4 | 200.9 |
| 85° | 93.5 | 72.1 | 65.8 | 68.1 | 64.8 | 66.4 | 76.0 | 150.9 | 139.6 | 81.6 | 88.4 |
| 87.5° | 24.2 | 24.8 | 16.3 | 17.4 | 18.0 | 21.4 | 24.2 | 91.7 | 43.9 | 28.7 | 30.4 |
| 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)