

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: P964115

Luminaire Tested: **NVN-SB3B-750-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3B-750-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18286 lumens
Efficiency: N/A
Efficacy: 167.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

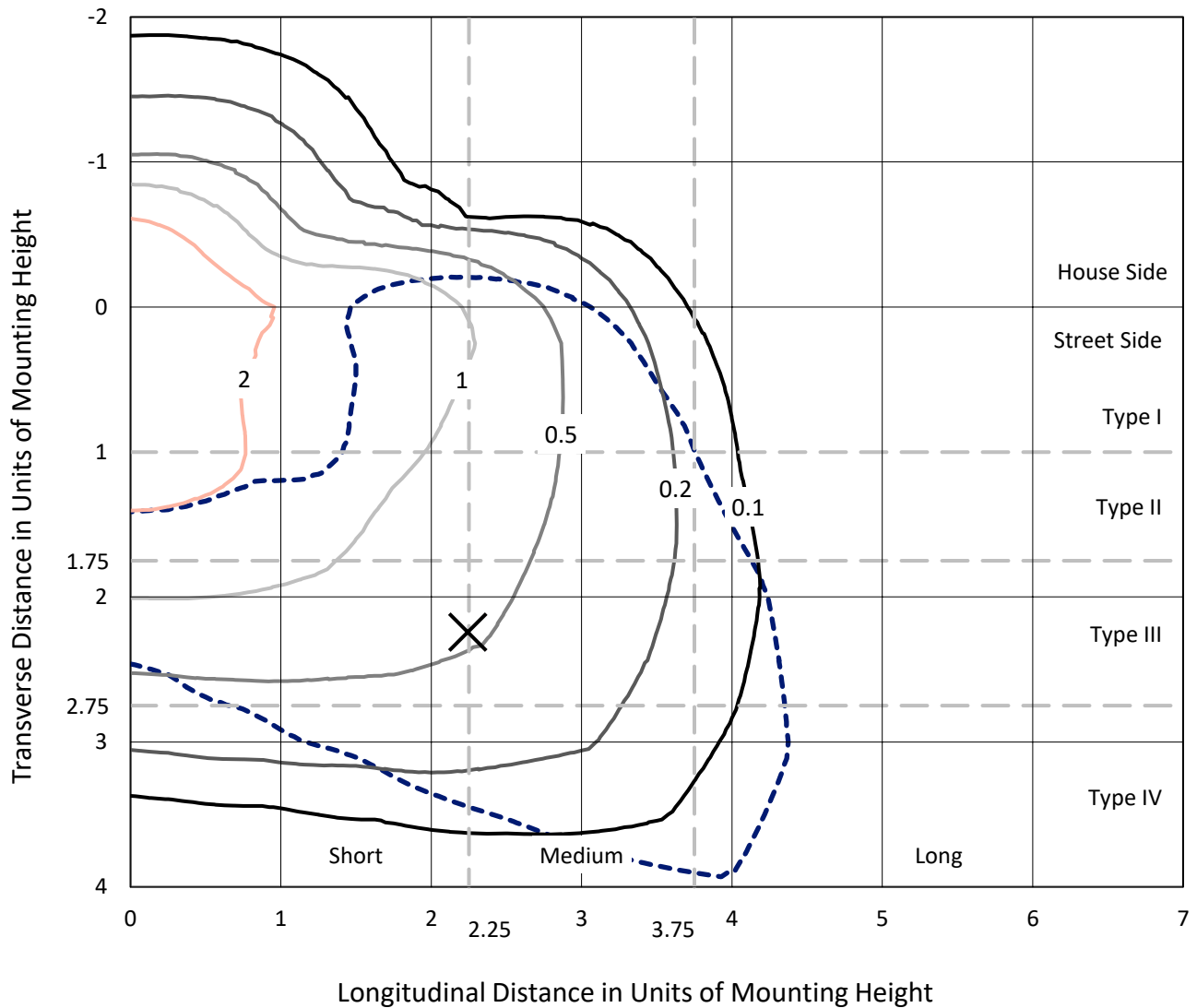
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

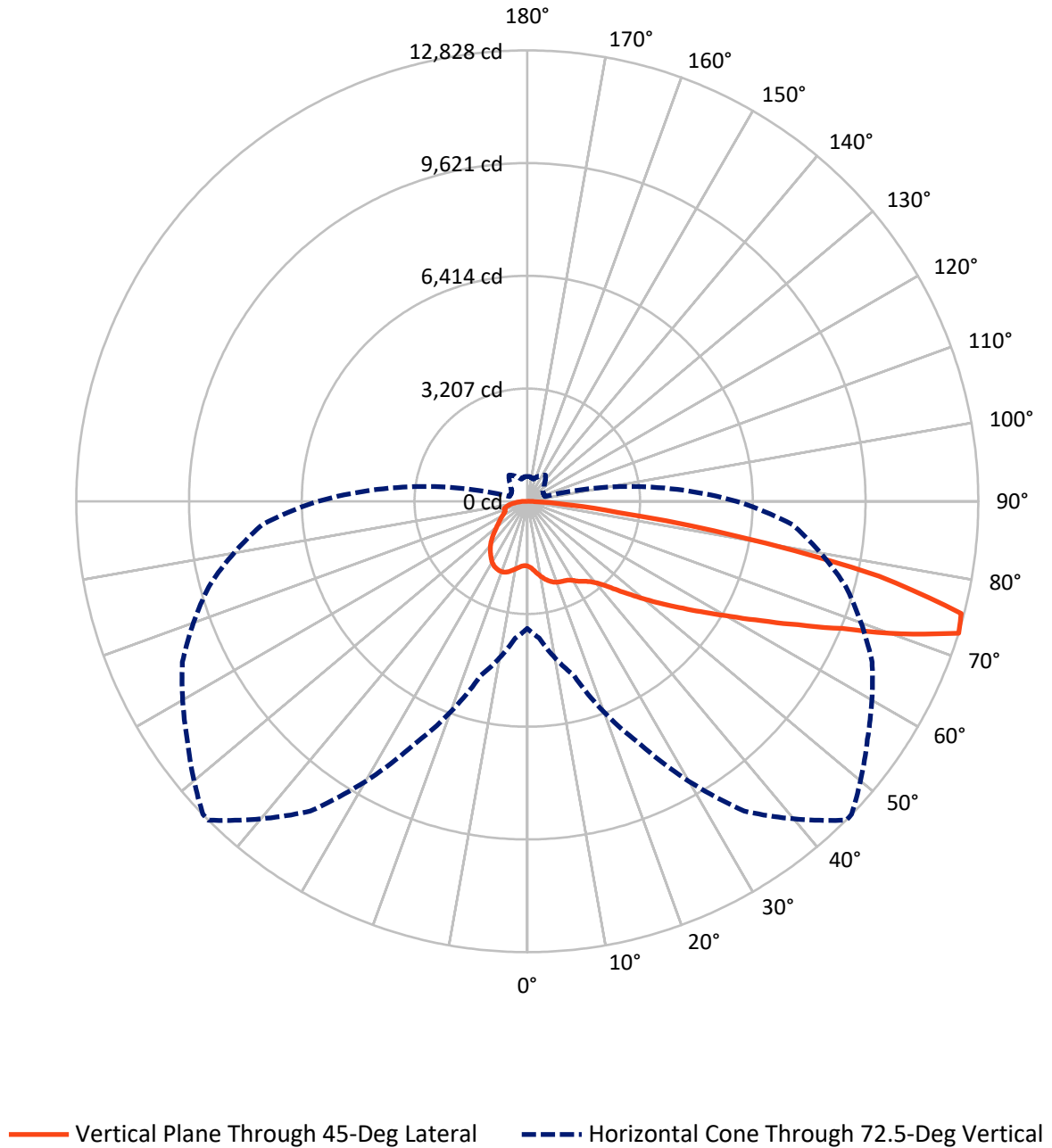
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4133.8 | 0.0 | 4133.8 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 14152.2 | 0.0 | 14152.2 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 18286.0 | 0.0 | 18286.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 187.8 | 1.0 |
| 10°-20° | 626.0 | 3.4 |
| 20°-30° | 1089.0 | 6.0 |
| 30°-40° | 1561.1 | 8.5 |
| 40°-50° | 2198.1 | 12.0 |
| 50°-60° | 3366.8 | 18.4 |
| 60°-70° | 4877.3 | 26.7 |
| 70°-80° | 3894.9 | 21.3 |
| 80°-90° | 485.1 | 2.7 |
| 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° | 18286.0 | 100.0 |
| 0°-180° | 18286.0 | 100.0 |



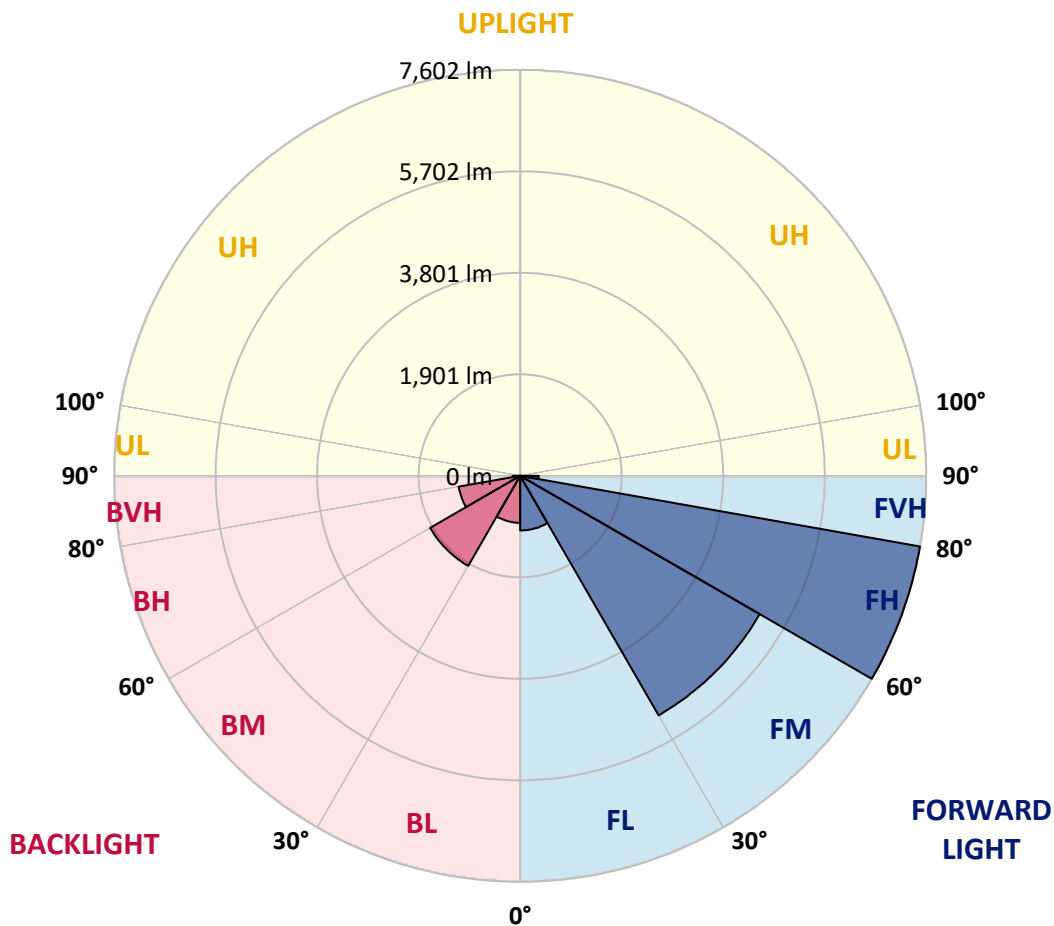
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1022.6 | 5.6 | | | |
| FM (30°-60°) | 5179.6 | 28.3 | | | |
| FH (60°-80°) | 7602.0 | 41.6 | | | G4/12000 |
| FVH (80°-90°) | 348.0 | 1.9 | | | G3/500 |
| BL (0°-30°) | 880.1 | 4.8 | B2/1000 | | |
| BM (30°-60°) | 1946.5 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 1170.2 | 6.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 137.1 | 0.7 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1844.7 | 1844.7 | 1844.7 | 1844.7 | 1844.7 | 1844.7 | 1844.7 | 1844.7 | 1844.7 | 1844.7 | 1844.7 |
| 2.5° | 1917.0 | 1929.5 | 1917.9 | 1907.3 | 1902.5 | 1890.0 | 1889.0 | 1881.3 | 1876.5 | 1863.0 | 1859.1 |
| 5° | 2050.8 | 2067.2 | 2048.0 | 2026.7 | 2007.5 | 1976.7 | 1972.8 | 1950.7 | 1925.7 | 1896.8 | 1880.4 |
| 7.5° | 2202.1 | 2216.6 | 2194.4 | 2162.5 | 2128.8 | 2077.8 | 2076.9 | 2036.4 | 1996.9 | 1947.8 | 1919.8 |
| 10° | 2334.0 | 2353.3 | 2323.5 | 2280.1 | 2237.7 | 2180.0 | 2173.2 | 2127.0 | 2076.9 | 2013.3 | 1970.9 |
| 12.5° | 2450.6 | 2464.1 | 2435.2 | 2382.2 | 2333.1 | 2275.3 | 2266.6 | 2215.5 | 2159.7 | 2087.4 | 2033.5 |
| 15° | 2543.1 | 2560.4 | 2521.9 | 2465.0 | 2413.1 | 2356.2 | 2348.5 | 2302.3 | 2246.4 | 2170.3 | 2100.9 |
| 17.5° | 2603.8 | 2618.3 | 2578.7 | 2515.1 | 2465.0 | 2417.9 | 2412.0 | 2373.6 | 2324.4 | 2247.3 | 2173.2 |
| 20° | 2626.9 | 2642.3 | 2600.8 | 2536.4 | 2490.1 | 2453.5 | 2450.6 | 2422.7 | 2389.0 | 2318.7 | 2243.5 |
| 22.5° | 2650.0 | 2664.5 | 2610.5 | 2543.1 | 2502.6 | 2479.5 | 2478.6 | 2460.2 | 2446.8 | 2389.0 | 2315.8 |
| 25° | 2743.4 | 2747.3 | 2675.0 | 2577.8 | 2520.0 | 2499.8 | 2498.7 | 2497.8 | 2503.6 | 2458.4 | 2393.8 |
| 27.5° | 2824.4 | 2823.4 | 2761.8 | 2670.2 | 2580.6 | 2538.3 | 2537.3 | 2546.9 | 2565.3 | 2527.6 | 2474.7 |
| 30° | 2942.9 | 2932.2 | 2859.0 | 2763.7 | 2681.8 | 2616.3 | 2610.5 | 2601.9 | 2616.3 | 2586.5 | 2555.6 |
| 32.5° | 3194.3 | 3160.6 | 3042.1 | 2872.6 | 2765.7 | 2715.5 | 2707.8 | 2653.8 | 2659.7 | 2641.3 | 2625.9 |
| 35° | 3554.5 | 3510.2 | 3352.3 | 3078.7 | 2869.7 | 2798.4 | 2794.5 | 2726.1 | 2714.5 | 2698.2 | 2704.0 |
| 37.5° | 3983.3 | 3928.3 | 3744.3 | 3377.3 | 3048.9 | 2894.7 | 2888.9 | 2827.3 | 2780.1 | 2762.7 | 2795.5 |
| 40° | 4413.8 | 4344.5 | 4192.2 | 3741.5 | 3312.8 | 3055.5 | 3037.3 | 2943.8 | 2889.9 | 2861.0 | 2930.4 |
| 42.5° | 4831.8 | 4774.0 | 4644.1 | 4149.8 | 3638.3 | 3290.6 | 3250.2 | 3090.3 | 3049.8 | 3022.8 | 3148.1 |
| 45° | 5201.8 | 5149.7 | 5054.4 | 4586.3 | 4019.8 | 3610.5 | 3570.9 | 3309.8 | 3297.3 | 3297.3 | 3478.4 |
| 47.5° | 5502.3 | 5490.7 | 5389.7 | 5031.3 | 4469.7 | 3974.5 | 3906.2 | 3615.3 | 3648.9 | 3701.0 | 3947.6 |
| 50° | 5835.6 | 5803.9 | 5695.9 | 5469.6 | 4998.5 | 4391.6 | 4335.8 | 3989.9 | 4116.1 | 4258.7 | 4625.7 |
| 52.5° | 6141.9 | 6159.3 | 6038.9 | 5926.1 | 5595.8 | 4856.9 | 4758.7 | 4432.1 | 4704.8 | 4940.7 | 5420.4 |
| 55° | 6457.0 | 6457.9 | 6424.2 | 6408.8 | 6221.9 | 5371.3 | 5263.4 | 4963.9 | 5397.3 | 5690.2 | 6347.1 |
| 57.5° | 6752.7 | 6754.5 | 6804.7 | 6940.5 | 6948.2 | 5964.7 | 5842.4 | 5616.9 | 6167.0 | 6465.6 | 7302.7 |
| 60° | 7016.6 | 7030.1 | 7166.9 | 7484.8 | 7586.8 | 6644.8 | 6529.1 | 6388.5 | 6962.6 | 7263.3 | 8307.4 |
| 62.5° | 7105.2 | 7154.4 | 7458.7 | 7910.5 | 8217.8 | 7479.0 | 7365.3 | 7281.5 | 7798.8 | 8078.1 | 9147.4 |
| 65° | 6954.9 | 7067.7 | 7656.2 | 8262.1 | 8867.1 | 8470.2 | 8357.5 | 8266.0 | 8667.7 | 8930.6 | 9837.1 |
| 67.5° | 6586.0 | 6731.5 | 7644.7 | 8631.1 | 9655.1 | 9662.8 | 9557.8 | 9343.0 | 9599.2 | 9700.3 | 10061.6 |
| 70° | 5614.0 | 5831.7 | 6971.3 | 8768.9 | 10559.6 | 11293.7 | 11192.5 | 10639.5 | 10528.8 | 10039.5 | 9429.7 |
| 72.5° | 3617.1 | 3910.0 | 5133.4 | 7635.0 | 10761.0 | 12828.2 | 12822.3 | 11809.9 | 10822.6 | 9380.5 | 7562.8 |
| 75° | 1319.7 | 1498.9 | 2385.1 | 4792.4 | 9032.8 | 12750.1 | 12787.7 | 11609.6 | 9879.5 | 7245.8 | 4711.4 |
| 77.5° | 480.7 | 525.9 | 778.4 | 1841.8 | 5555.3 | 10230.1 | 10308.2 | 9281.3 | 7032.0 | 3636.4 | 1866.8 |
| 80° | 252.4 | 277.5 | 398.8 | 714.7 | 2380.3 | 6075.5 | 6197.8 | 5515.8 | 3305.0 | 1095.2 | 559.6 |
| 82.5° | 139.7 | 151.2 | 223.4 | 388.2 | 1072.1 | 2598.0 | 2671.3 | 2178.9 | 1162.7 | 464.3 | 231.2 |
| 85° | 75.1 | 79.9 | 105.0 | 212.0 | 524.0 | 900.7 | 920.9 | 651.2 | 463.3 | 272.6 | 111.7 |
| 87.5° | 22.1 | 27.0 | 34.6 | 67.4 | 205.2 | 202.3 | 207.2 | 129.0 | 183.1 | 137.8 | 36.6 |
| 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° | 1844.7 | 1844.7 | 1844.7 | 1844.7 | 1844.7 | 1844.7 | 1844.7 | 1844.7 | 1844.7 | 1844.7 | 1844.7 |
| 2.5° | 1853.4 | 1850.4 | 1839.9 | 1835.1 | 1829.3 | 1828.3 | 1833.1 | 1834.1 | 1835.1 | 1836.1 | 1839.9 |
| 5° | 1870.7 | 1861.1 | 1851.5 | 1845.6 | 1847.6 | 1848.6 | 1858.2 | 1864.9 | 1869.7 | 1873.6 | 1875.5 |
| 7.5° | 1904.4 | 1896.8 | 1880.4 | 1879.3 | 1882.3 | 1890.9 | 1903.4 | 1918.9 | 1927.5 | 1934.3 | 1936.2 |
| 10° | 1954.5 | 1940.0 | 1920.8 | 1923.7 | 1929.5 | 1942.0 | 1968.0 | 1980.5 | 1995.0 | 2007.5 | 2004.6 |
| 12.5° | 2005.6 | 1993.0 | 1970.9 | 1972.8 | 1982.5 | 2004.6 | 2029.6 | 2045.1 | 2054.7 | 2064.4 | 2068.1 |
| 15° | 2072.0 | 2049.9 | 2025.8 | 2025.8 | 2043.1 | 2067.2 | 2078.8 | 2091.3 | 2097.0 | 2107.7 | 2111.5 |
| 17.5° | 2140.4 | 2111.5 | 2079.7 | 2077.8 | 2099.0 | 2110.6 | 2117.3 | 2119.3 | 2121.1 | 2132.7 | 2136.6 |
| 20° | 2208.9 | 2177.0 | 2131.8 | 2127.9 | 2132.7 | 2130.8 | 2129.8 | 2127.9 | 2130.8 | 2145.2 | 2151.1 |
| 22.5° | 2276.2 | 2239.6 | 2177.0 | 2159.7 | 2146.2 | 2127.9 | 2127.0 | 2126.0 | 2127.9 | 2142.4 | 2152.0 |
| 25° | 2355.2 | 2311.0 | 2227.1 | 2175.2 | 2129.8 | 2104.8 | 2107.7 | 2108.6 | 2110.6 | 2122.2 | 2137.5 |
| 27.5° | 2440.9 | 2391.8 | 2273.3 | 2170.3 | 2088.4 | 2071.1 | 2066.3 | 2069.2 | 2075.9 | 2094.2 | 2112.5 |
| 30° | 2526.7 | 2468.9 | 2315.8 | 2151.1 | 2036.4 | 2012.3 | 1996.9 | 2003.7 | 2024.9 | 2043.1 | 2063.3 |
| 32.5° | 2604.7 | 2546.9 | 2349.5 | 2108.6 | 1969.9 | 1932.3 | 1912.1 | 1920.8 | 1942.0 | 1948.7 | 1972.8 |
| 35° | 2696.3 | 2630.8 | 2364.0 | 2041.2 | 1897.7 | 1839.9 | 1812.9 | 1800.4 | 1811.0 | 1804.2 | 1825.4 |
| 37.5° | 2798.4 | 2730.0 | 2362.0 | 1952.6 | 1812.9 | 1746.4 | 1708.9 | 1661.6 | 1639.5 | 1616.4 | 1630.9 |
| 40° | 2949.6 | 2851.3 | 2338.8 | 1845.6 | 1708.0 | 1647.3 | 1579.8 | 1499.9 | 1449.8 | 1404.5 | 1407.3 |
| 42.5° | 3155.8 | 3020.0 | 2296.5 | 1728.2 | 1589.5 | 1532.6 | 1441.0 | 1347.7 | 1268.6 | 1193.5 | 1186.7 |
| 45° | 3463.1 | 3240.5 | 2243.5 | 1602.9 | 1461.3 | 1405.5 | 1306.3 | 1201.2 | 1111.6 | 1015.3 | 1003.8 |
| 47.5° | 3906.2 | 3537.2 | 2193.4 | 1460.3 | 1326.5 | 1275.4 | 1185.8 | 1088.6 | 982.6 | 889.1 | 878.5 |
| 50° | 4514.9 | 3963.0 | 2147.2 | 1321.6 | 1193.5 | 1155.0 | 1083.7 | 984.5 | 877.6 | 802.4 | 797.7 |
| 52.5° | 5289.4 | 4541.9 | 2127.9 | 1187.8 | 1069.3 | 1054.8 | 997.9 | 905.5 | 804.3 | 740.8 | 735.9 |
| 55° | 6178.5 | 5234.5 | 2127.9 | 1059.6 | 960.4 | 965.2 | 925.7 | 840.0 | 752.3 | 695.5 | 689.7 |
| 57.5° | 7085.9 | 5935.8 | 2089.4 | 941.2 | 868.0 | 888.2 | 863.2 | 788.0 | 709.0 | 650.3 | 640.6 |
| 60° | 7922.1 | 6523.4 | 1933.4 | 833.2 | 786.1 | 817.8 | 801.4 | 736.9 | 640.6 | 591.4 | 583.7 |
| 62.5° | 8564.6 | 6854.8 | 1632.8 | 747.5 | 718.6 | 755.2 | 746.5 | 669.5 | 628.0 | 607.8 | 601.1 |
| 65° | 8886.3 | 6800.9 | 1248.4 | 671.4 | 661.7 | 718.6 | 700.3 | 697.4 | 664.7 | 641.5 | 633.9 |
| 67.5° | 8688.9 | 6336.5 | 905.5 | 615.5 | 629.0 | 684.9 | 755.2 | 766.8 | 706.1 | 660.8 | 653.1 |
| 70° | 7822.9 | 5496.6 | 674.3 | 562.5 | 587.6 | 685.8 | 861.2 | 802.4 | 692.6 | 639.6 | 631.0 |
| 72.5° | 5951.3 | 4098.8 | 523.1 | 506.7 | 533.6 | 690.6 | 908.4 | 786.1 | 654.1 | 707.0 | 701.3 |
| 75° | 3403.3 | 2250.3 | 420.0 | 438.3 | 466.3 | 645.4 | 884.3 | 743.6 | 624.2 | 649.2 | 649.2 |
| 77.5° | 1297.5 | 865.0 | 346.8 | 370.8 | 374.7 | 563.5 | 845.7 | 740.8 | 594.4 | 579.9 | 528.8 |
| 80° | 449.9 | 338.1 | 287.1 | 294.8 | 290.0 | 500.9 | 811.1 | 644.4 | 486.5 | 435.4 | 421.0 |
| 82.5° | 184.0 | 168.6 | 227.3 | 217.7 | 206.1 | 389.2 | 655.1 | 527.0 | 397.8 | 351.6 | 347.8 |
| 85° | 79.9 | 106.9 | 150.3 | 132.0 | 119.4 | 269.7 | 525.0 | 446.0 | 336.2 | 290.0 | 288.9 |
| 87.5° | 16.4 | 40.5 | 63.6 | 59.8 | 61.6 | 180.1 | 372.8 | 316.9 | 237.9 | 178.2 | 139.7 |
| 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)