

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: P882778

Luminaire Tested: **NVN-SB2D-760-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2D-760-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17536 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

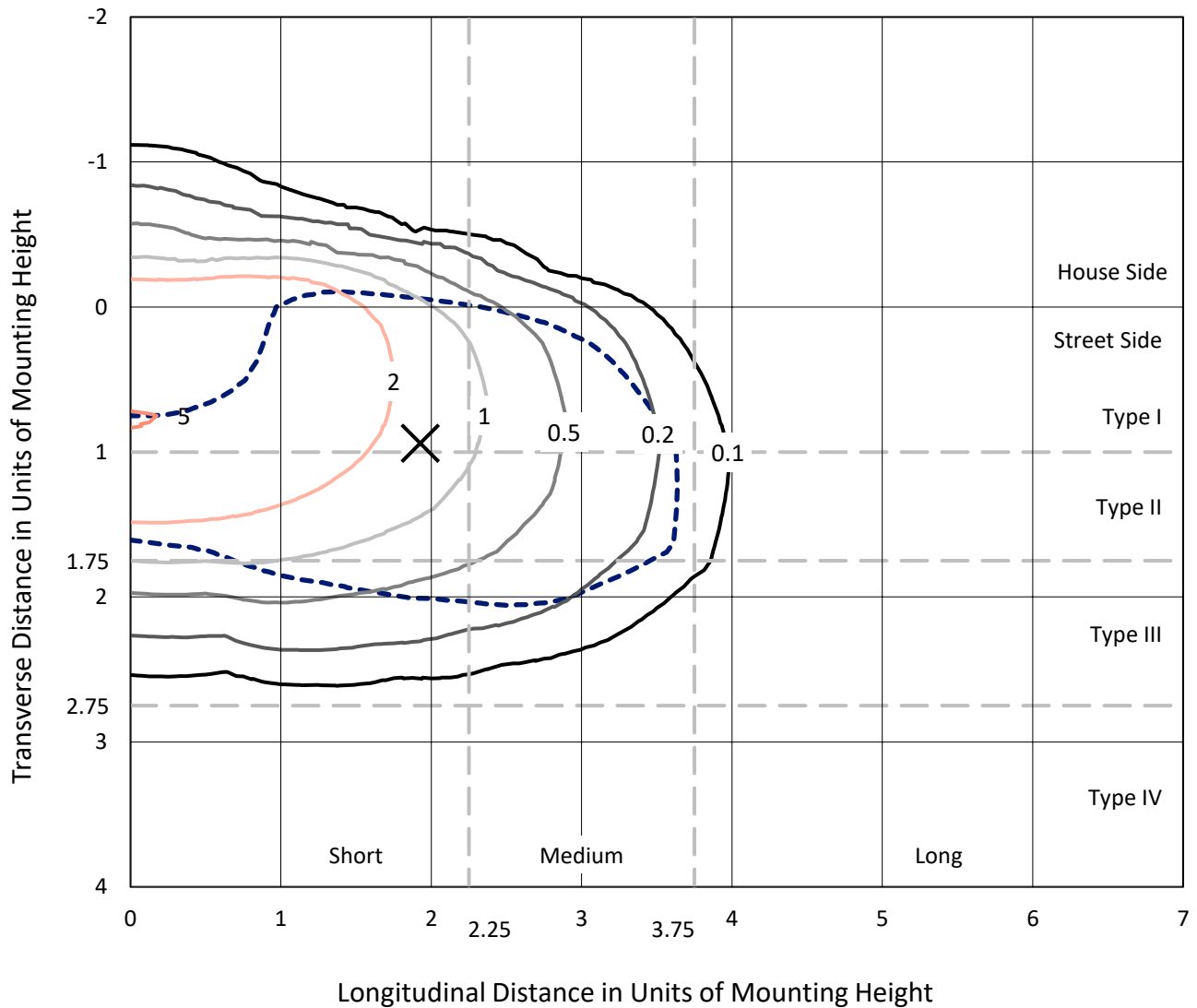
Input Watts (W): 147.6
Input Voltage (V): 120.0
Input Current (Ain): 1.234
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 3.108
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

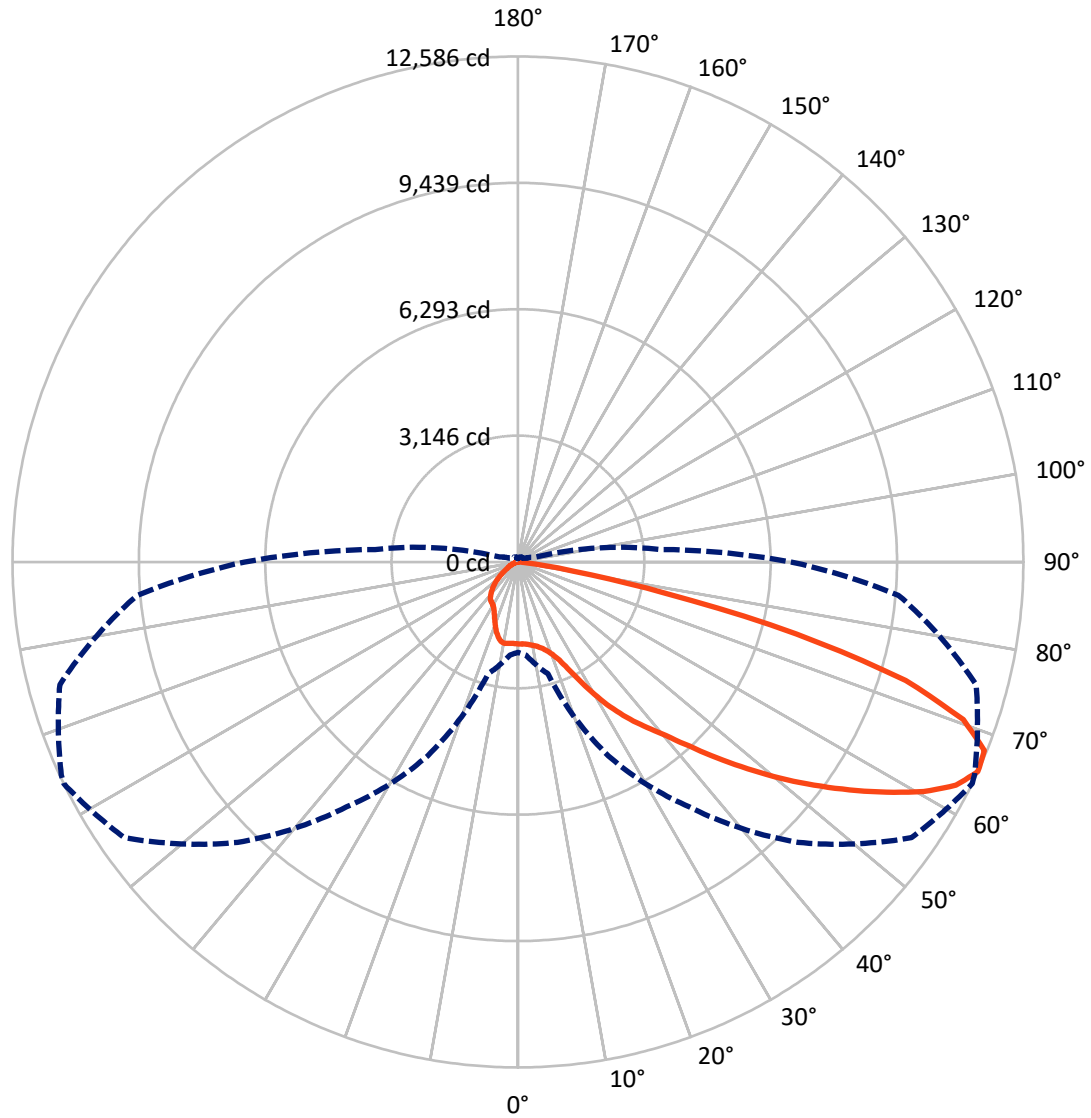
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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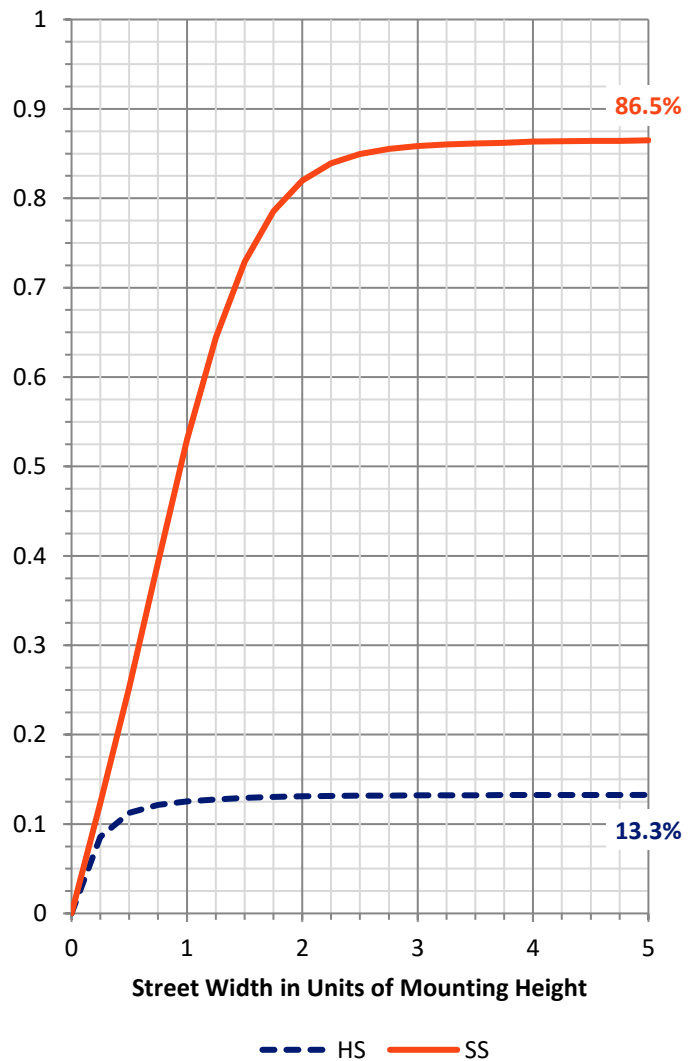
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2345.1 | 0.0 | 2345.1 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 15190.9 | 0.0 | 15190.9 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 17536.0 | 0.0 | 17536.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 188.2 | 1.1 |
| 10°-20° | 510.4 | 2.9 |
| 20°-30° | 967.1 | 5.5 |
| 30°-40° | 1957.0 | 11.2 |
| 40°-50° | 3333.8 | 19.0 |
| 50°-60° | 4533.7 | 25.9 |
| 60°-70° | 4257.4 | 24.3 |
| 70°-80° | 1705.7 | 9.7 |
| 80°-90° | 82.6 | 0.5 |
| 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° | 17536.0 | 100.0 |
| 0°-180° | 17536.0 | 100.0 |

Coefficient of Utilization



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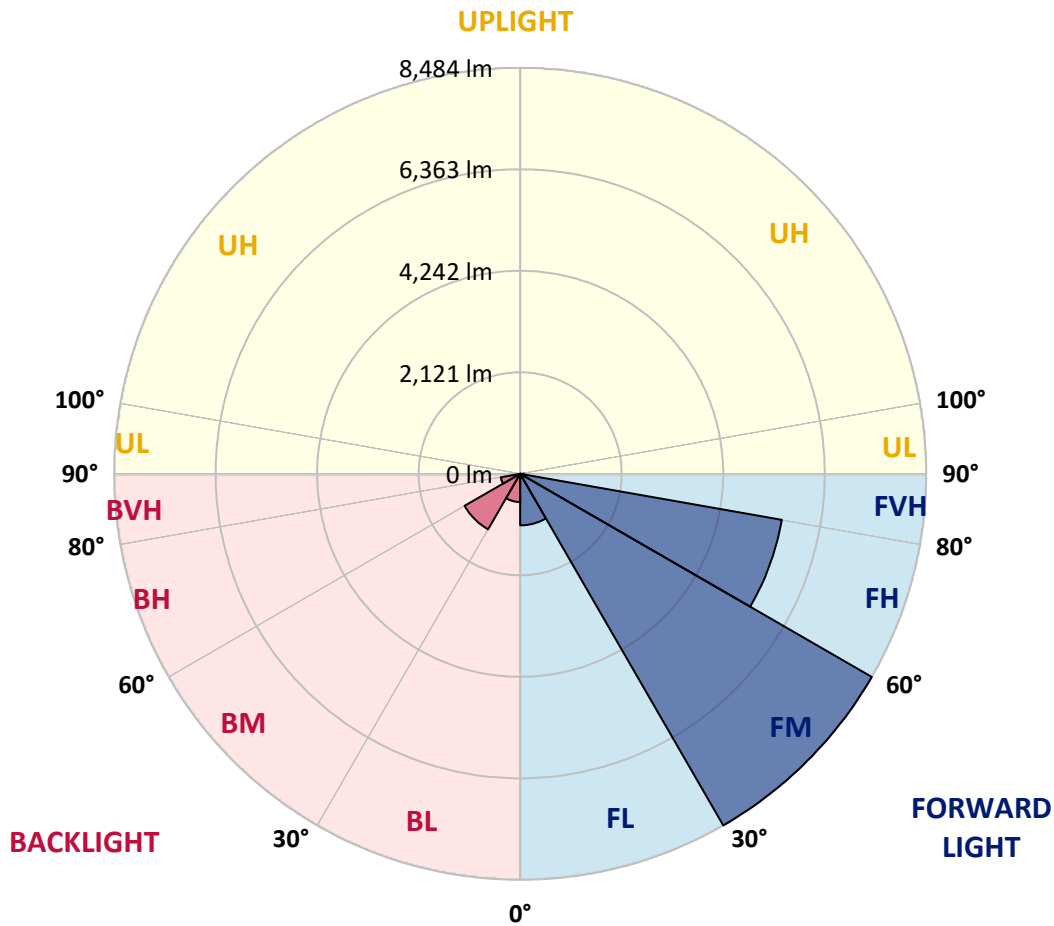
CATALOG NUMBER: NVN-SB2D-760-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1076.9 | 6.1 | | | |
| FM (30°-60°) | 8483.9 | 48.4 | | | |
| FH (60°-80°) | 5551.5 | 31.7 | | | G3/7500 |
| FVH (80°-90°) | 78.6 | 0.4 | | | G1/100 |
| BL (0°-30°) | 588.8 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 1340.7 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 411.6 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0° | 2039.6 | 2039.6 | 2039.6 | 2039.6 | 2039.6 | 2039.6 | 2039.6 | 2039.6 | 2039.6 | 2039.6 | 2039.6 |
| 2.5° | 2032.6 | 2046.7 | 2043.1 | 2039.6 | 2038.4 | 2040.8 | 2042.0 | 2040.8 | 2040.8 | 2040.8 | 2042.0 |
| 5° | 1993.8 | 2005.5 | 2005.5 | 2013.8 | 2025.5 | 2039.6 | 2050.2 | 2052.6 | 2054.9 | 2058.4 | 2057.3 |
| 7.5° | 1919.7 | 1929.1 | 1936.2 | 1963.2 | 1992.6 | 2030.2 | 2062.0 | 2078.4 | 2080.8 | 2093.7 | 2098.4 |
| 10° | 1869.2 | 1880.9 | 1892.7 | 1920.9 | 1963.2 | 2019.6 | 2073.7 | 2113.7 | 2119.6 | 2150.1 | 2164.2 |
| 12.5° | 1866.8 | 1878.6 | 1893.8 | 1924.4 | 1973.8 | 2033.7 | 2099.6 | 2157.2 | 2167.8 | 2212.4 | 2241.8 |
| 15° | 1891.5 | 1905.6 | 1919.7 | 1957.3 | 2010.2 | 2083.1 | 2153.6 | 2225.4 | 2235.9 | 2299.4 | 2331.2 |
| 17.5° | 1942.0 | 1960.9 | 1971.4 | 2009.1 | 2065.5 | 2146.6 | 2239.5 | 2321.8 | 2331.2 | 2405.2 | 2445.2 |
| 20° | 2042.0 | 2064.3 | 2067.8 | 2098.4 | 2153.6 | 2240.6 | 2351.1 | 2453.4 | 2465.2 | 2549.8 | 2594.5 |
| 22.5° | 2248.9 | 2280.6 | 2252.4 | 2267.7 | 2317.1 | 2404.0 | 2524.0 | 2653.3 | 2669.7 | 2766.1 | 2806.1 |
| 25° | 2613.3 | 2658.0 | 2585.1 | 2559.2 | 2580.4 | 2670.9 | 2821.4 | 2984.8 | 3003.6 | 3081.2 | 3101.2 |
| 27.5° | 3329.2 | 3271.6 | 3161.1 | 3053.0 | 2989.5 | 3041.2 | 3210.5 | 3412.7 | 3436.2 | 3511.4 | 3487.9 |
| 30° | 4115.7 | 4065.1 | 3915.8 | 3676.0 | 3525.5 | 3517.3 | 3673.7 | 3899.4 | 3926.4 | 3998.1 | 3926.4 |
| 32.5° | 4903.3 | 4855.1 | 4692.9 | 4397.8 | 4136.8 | 4007.5 | 4115.7 | 4366.1 | 4380.2 | 4426.0 | 4320.2 |
| 35° | 5678.0 | 5628.6 | 5466.4 | 5164.3 | 4843.4 | 4549.5 | 4528.3 | 4810.4 | 4815.1 | 4863.3 | 4705.8 |
| 37.5° | 6457.4 | 6416.3 | 6243.5 | 5947.2 | 5631.0 | 5225.4 | 5029.1 | 5231.3 | 5237.2 | 5284.2 | 5120.8 |
| 40° | 7013.5 | 7031.1 | 6912.4 | 6683.1 | 6411.6 | 5968.4 | 5591.0 | 5679.2 | 5643.9 | 5722.7 | 5625.1 |
| 42.5° | 7490.8 | 7526.0 | 7422.6 | 7307.4 | 7149.8 | 6759.5 | 6287.0 | 6271.7 | 6215.3 | 6257.6 | 6156.5 |
| 45° | 7903.4 | 7932.8 | 7839.9 | 7812.9 | 7809.3 | 7535.4 | 7047.6 | 6955.9 | 6877.1 | 6868.9 | 6747.8 |
| 47.5° | 8055.0 | 8111.5 | 8151.4 | 8241.9 | 8418.3 | 8303.1 | 7834.0 | 7691.8 | 7603.6 | 7538.9 | 7347.3 |
| 50° | 8112.6 | 8172.6 | 8308.9 | 8572.3 | 8989.6 | 9039.0 | 8616.9 | 8457.1 | 8348.9 | 8231.4 | 7949.2 |
| 52.5° | 8035.0 | 8142.0 | 8325.4 | 8768.6 | 9374.0 | 9629.1 | 9368.1 | 9228.2 | 9104.8 | 8913.2 | 8494.7 |
| 55° | 7577.7 | 7684.7 | 8059.7 | 8766.2 | 9565.6 | 10042.9 | 10078.2 | 10015.9 | 9877.2 | 9575.0 | 8935.5 |
| 57.5° | 6613.8 | 6772.5 | 7366.1 | 8467.7 | 9562.1 | 10399.1 | 10774.1 | 10818.8 | 10663.6 | 10231.0 | 9282.3 |
| 60° | 5278.3 | 5493.5 | 6217.6 | 7805.8 | 9267.0 | 10591.9 | 11384.2 | 11607.6 | 11443.0 | 10877.6 | 9563.3 |
| 62.5° | 3683.1 | 3932.3 | 4617.7 | 6768.9 | 8592.3 | 10453.2 | 11829.8 | 12242.4 | 12117.8 | 11456.0 | 9671.4 |
| 65° | 2246.5 | 2326.5 | 2879.0 | 5326.5 | 7444.9 | 9872.5 | 11967.3 | 12585.7 | 12544.5 | 11809.8 | 9511.6 |
| 67.5° | 1496.5 | 1563.5 | 1722.2 | 3652.5 | 5779.1 | 8712.2 | 11638.2 | 12525.7 | 12537.5 | 11752.2 | 8926.1 |
| 70° | 901.7 | 959.3 | 1062.7 | 2124.3 | 3745.4 | 6895.9 | 10618.9 | 11761.6 | 11829.8 | 10982.2 | 7816.4 |
| 72.5° | 371.5 | 410.3 | 504.3 | 962.8 | 1939.7 | 4376.7 | 8455.9 | 10098.2 | 10256.9 | 9234.1 | 5998.9 |
| 75° | 210.4 | 230.4 | 296.2 | 483.2 | 841.7 | 2039.6 | 5122.0 | 7168.6 | 7402.6 | 6364.6 | 3609.0 |
| 77.5° | 139.9 | 149.3 | 191.6 | 312.7 | 473.8 | 695.9 | 2188.9 | 3734.8 | 4181.5 | 3476.2 | 1562.3 |
| 80° | 94.0 | 102.3 | 131.7 | 209.3 | 308.0 | 298.6 | 697.1 | 1383.6 | 1702.2 | 1194.4 | 380.9 |
| 82.5° | 63.5 | 64.7 | 94.0 | 137.5 | 195.1 | 144.6 | 205.7 | 430.3 | 540.8 | 345.6 | 144.6 |
| 85° | 36.4 | 35.3 | 69.4 | 79.9 | 87.0 | 60.0 | 62.3 | 129.3 | 169.3 | 145.8 | 82.3 |
| 87.5° | 4.7 | 7.1 | 27.0 | 21.2 | 11.8 | 12.9 | 12.9 | 22.3 | 32.9 | 35.3 | 17.6 |
| 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° | 2039.6 | 2039.6 | 2039.6 | 2039.6 | 2039.6 | 2039.6 | 2039.6 | 2039.6 | 2039.6 | 2039.6 | 2039.6 |
| 2.5° | 2042.0 | 2040.8 | 2037.3 | 2033.7 | 2025.5 | 2020.8 | 2023.2 | 2020.8 | 2019.6 | 2020.8 | 2025.5 |
| 5° | 2057.3 | 2053.7 | 2044.3 | 2032.6 | 2016.1 | 1996.1 | 1983.2 | 1964.4 | 1946.7 | 1936.2 | 1938.5 |
| 7.5° | 2098.4 | 2094.9 | 2081.9 | 2049.0 | 1996.1 | 1912.7 | 1836.2 | 1769.2 | 1718.7 | 1689.3 | 1690.5 |
| 10° | 2164.2 | 2158.4 | 2138.4 | 2065.5 | 1926.8 | 1744.6 | 1592.9 | 1467.1 | 1384.8 | 1346.0 | 1342.5 |
| 12.5° | 2241.8 | 2234.8 | 2199.5 | 2050.2 | 1795.1 | 1510.6 | 1301.4 | 1161.5 | 1085.1 | 1051.0 | 1047.4 |
| 15° | 2333.5 | 2324.1 | 2254.7 | 1977.3 | 1603.5 | 1252.0 | 1060.4 | 955.7 | 906.4 | 875.8 | 877.0 |
| 17.5° | 2447.5 | 2431.1 | 2295.9 | 1868.0 | 1395.4 | 1054.5 | 912.2 | 833.5 | 790.0 | 760.6 | 758.2 |
| 20° | 2595.7 | 2568.6 | 2328.8 | 1737.5 | 1203.8 | 929.9 | 812.3 | 746.5 | 713.6 | 687.7 | 683.0 |
| 22.5° | 2802.6 | 2763.8 | 2368.8 | 1596.4 | 1068.6 | 844.1 | 738.3 | 690.1 | 663.0 | 633.6 | 628.9 |
| 25° | 3058.8 | 3013.0 | 2418.2 | 1465.9 | 975.7 | 770.0 | 684.2 | 644.2 | 612.5 | 578.4 | 574.9 |
| 27.5° | 3417.4 | 3335.1 | 2476.9 | 1359.0 | 895.8 | 706.5 | 634.8 | 590.1 | 553.7 | 525.5 | 519.6 |
| 30° | 3817.1 | 3681.9 | 2528.7 | 1294.3 | 822.9 | 647.7 | 570.2 | 525.5 | 491.4 | 471.4 | 467.9 |
| 32.5° | 4195.6 | 4012.2 | 2562.7 | 1266.1 | 757.1 | 580.7 | 499.6 | 451.4 | 425.6 | 419.7 | 423.2 |
| 35° | 4553.0 | 4310.8 | 2559.2 | 1239.1 | 698.3 | 513.7 | 430.3 | 380.9 | 360.9 | 364.4 | 364.4 |
| 37.5° | 4964.4 | 4629.4 | 2534.5 | 1196.7 | 650.1 | 452.6 | 370.3 | 326.8 | 309.2 | 310.4 | 315.1 |
| 40° | 5442.9 | 4997.4 | 2519.3 | 1116.8 | 597.2 | 396.2 | 320.9 | 285.7 | 272.7 | 268.0 | 266.9 |
| 42.5° | 5953.1 | 5353.6 | 2521.6 | 1026.3 | 531.4 | 345.6 | 286.8 | 257.5 | 245.7 | 242.2 | 241.0 |
| 45° | 6465.7 | 5693.3 | 2525.1 | 932.2 | 462.0 | 306.8 | 262.2 | 237.5 | 230.4 | 225.7 | 225.7 |
| 47.5° | 6947.6 | 5982.5 | 2459.3 | 831.1 | 393.8 | 277.4 | 242.2 | 225.7 | 219.8 | 214.0 | 214.0 |
| 50° | 7396.7 | 6175.3 | 2300.6 | 713.6 | 339.7 | 253.9 | 226.9 | 215.1 | 209.3 | 203.4 | 203.4 |
| 52.5° | 7745.8 | 6205.8 | 2038.4 | 592.5 | 302.1 | 236.3 | 217.5 | 206.9 | 199.8 | 194.0 | 192.8 |
| 55° | 7901.0 | 6014.2 | 1665.8 | 479.6 | 272.7 | 221.0 | 208.1 | 197.5 | 189.3 | 183.4 | 182.2 |
| 57.5° | 7861.1 | 5611.0 | 1299.0 | 385.6 | 244.5 | 205.7 | 196.3 | 189.3 | 179.9 | 170.5 | 169.3 |
| 60° | 7664.7 | 5071.4 | 979.3 | 320.9 | 218.7 | 189.3 | 183.4 | 177.5 | 164.6 | 150.5 | 148.1 |
| 62.5° | 7325.0 | 4393.1 | 698.3 | 265.7 | 190.4 | 170.5 | 168.1 | 163.4 | 144.6 | 118.7 | 116.4 |
| 65° | 6805.4 | 3569.0 | 470.2 | 221.0 | 163.4 | 149.3 | 150.5 | 142.2 | 117.6 | 88.2 | 85.8 |
| 67.5° | 6046.0 | 2609.8 | 300.9 | 181.0 | 136.4 | 124.6 | 125.8 | 121.1 | 99.9 | 75.2 | 71.7 |
| 70° | 5078.5 | 1728.1 | 196.3 | 137.5 | 109.3 | 96.4 | 103.5 | 104.6 | 84.6 | 61.1 | 58.8 |
| 72.5° | 3723.0 | 1020.4 | 137.5 | 102.3 | 79.9 | 67.0 | 84.6 | 87.0 | 68.2 | 45.8 | 43.5 |
| 75° | 2121.9 | 484.3 | 103.5 | 74.1 | 49.4 | 47.0 | 65.8 | 65.8 | 47.0 | 30.6 | 28.2 |
| 77.5° | 891.1 | 202.2 | 72.9 | 48.2 | 28.2 | 27.0 | 44.7 | 41.1 | 23.5 | 14.1 | 14.1 |
| 80° | 257.5 | 90.5 | 38.8 | 23.5 | 11.8 | 10.6 | 17.6 | 12.9 | 5.9 | 2.4 | 2.4 |
| 82.5° | 101.1 | 40.0 | 15.3 | 9.4 | 4.7 | 4.7 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 60.0 | 16.5 | 7.1 | 3.5 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 15.3 | 3.5 | 2.4 | 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)