

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: P963989

Luminaire Tested: **NVN-SB3B-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3B-727-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15876.2 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

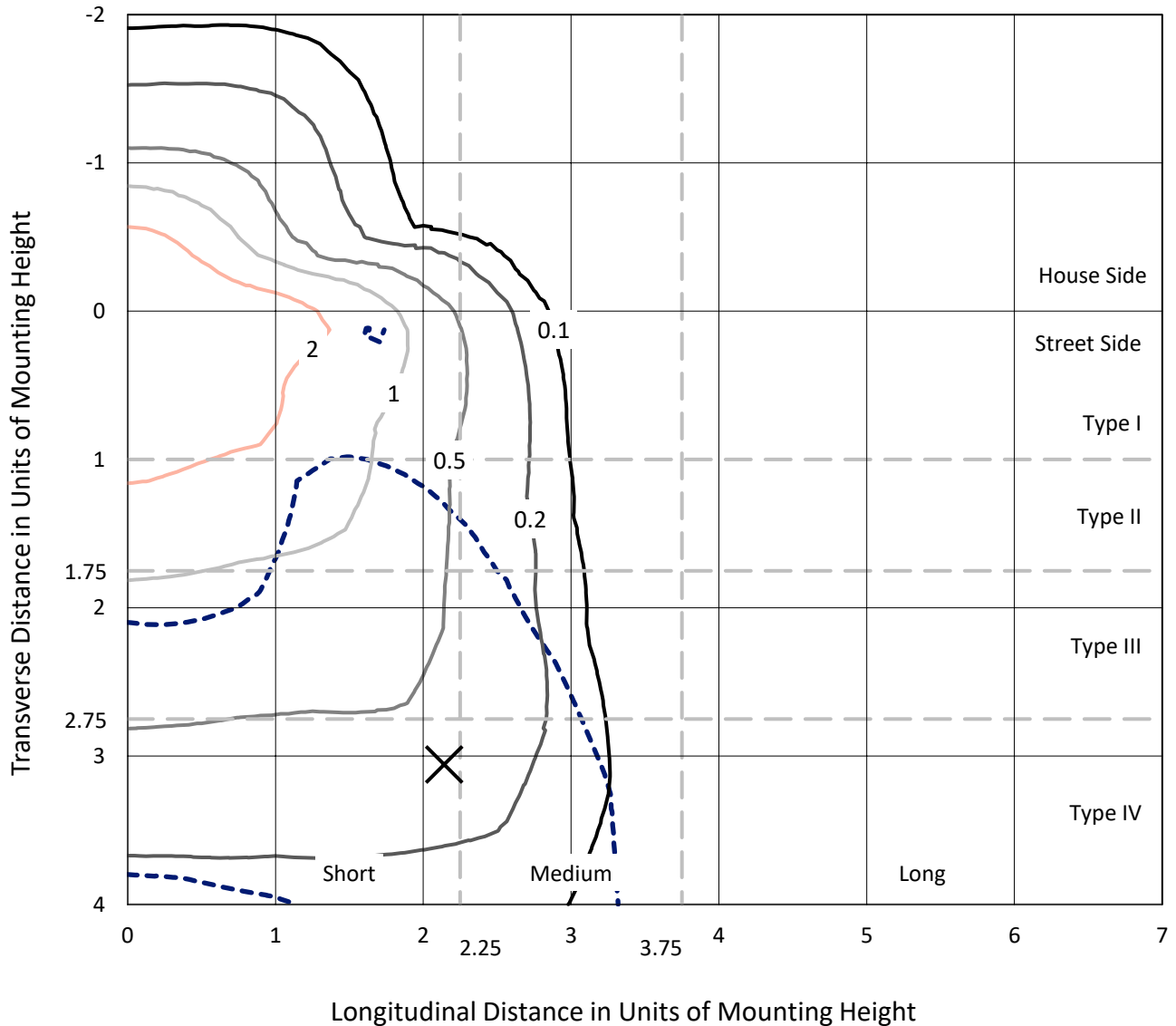
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

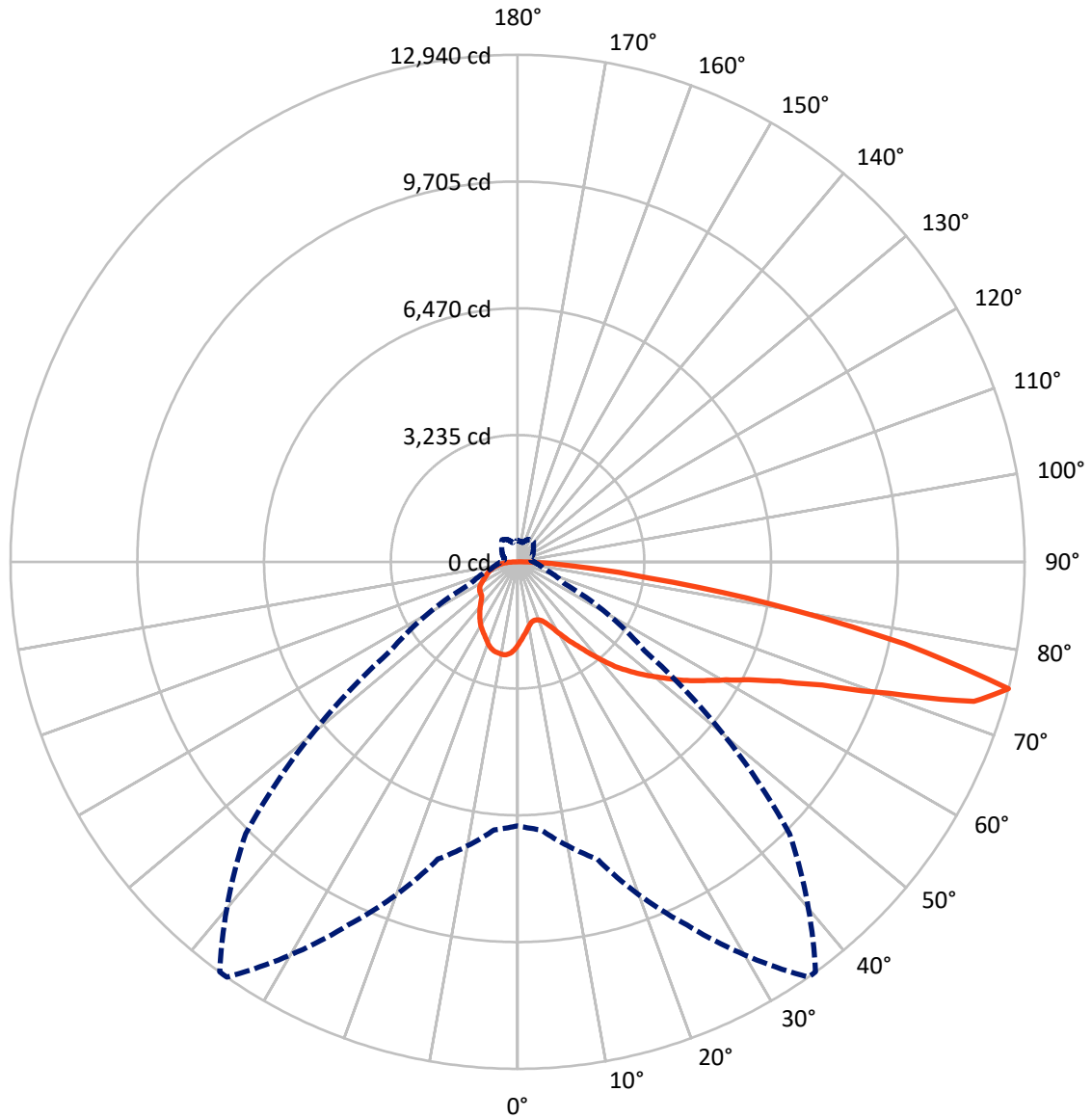
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3778.1 | 0.0 | 3778.1 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 12098.1 | 0.0 | 12098.1 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 15876.2 | 0.0 | 15876.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 200.3 | 1.3 |
| 10°-20° | 577.8 | 3.6 |
| 20°-30° | 970.2 | 6.1 |
| 30°-40° | 1507.9 | 9.5 |
| 40°-50° | 2238.1 | 14.1 |
| 50°-60° | 3089.8 | 19.5 |
| 60°-70° | 3748.6 | 23.6 |
| 70°-80° | 3098.0 | 19.5 |
| 80°-90° | 445.6 | 2.8 |
| 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° | 15876.2 | 100.0 |
| 0°-180° | 15876.2 | 100.0 |

Coefficient of Utilization



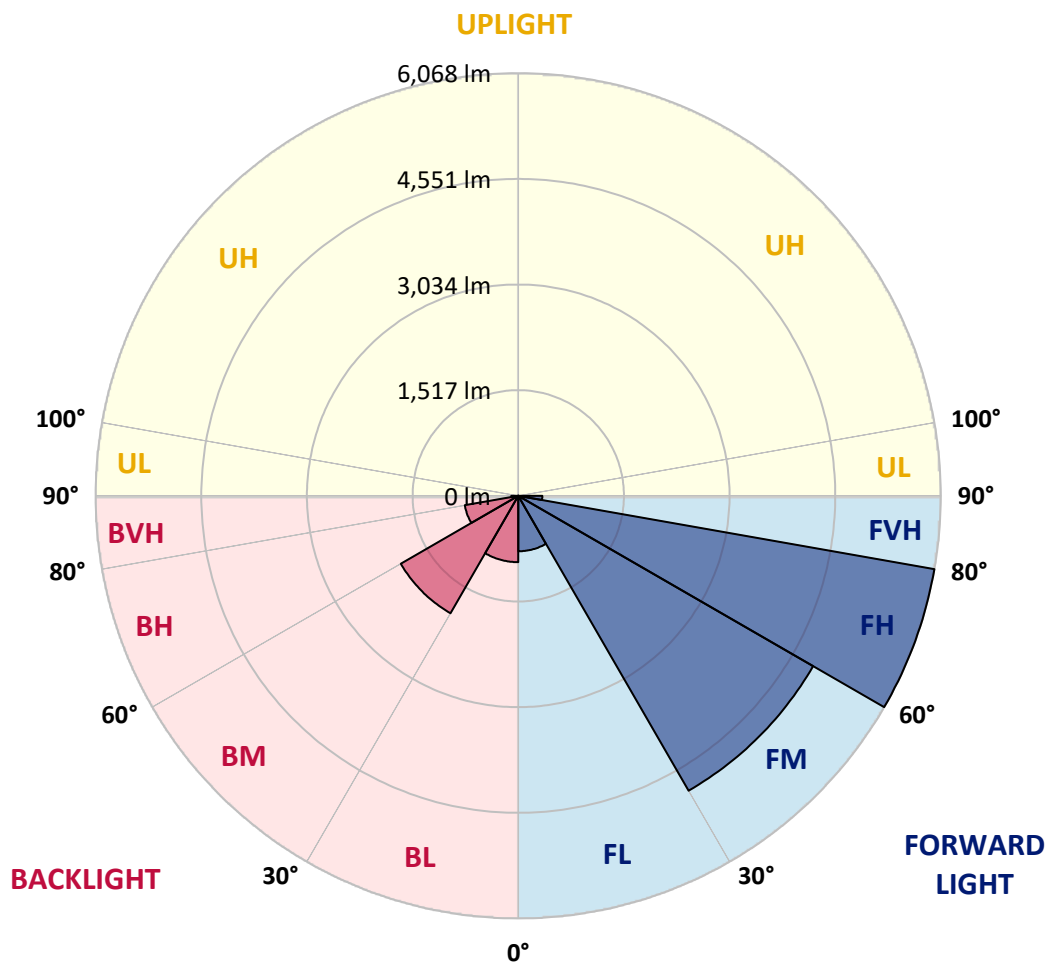
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 796.2 | 5.0 | | | |
| FM (30°-60°) | 4889.0 | 30.8 | | | |
| FH (60°-80°) | 6067.7 | 38.2 | | | G3/7500 |
| FVH (80°-90°) | 345.2 | 2.2 | | | G3/500 |
| BL (0°-30°) | 952.1 | 6.0 | B2/1000 | | |
| BM (30°-60°) | 1946.7 | 12.3 | B2/2500 | | |
| BH (60°-80°) | 778.9 | 4.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 100.3 | 0.6 | | | G2/225 |
| 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 Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2115.6 | 2115.6 | 2115.6 | 2115.6 | 2115.6 | 2115.6 | 2115.6 | 2115.6 | 2115.6 | 2115.6 | 2115.6 |
| 2.5° | 1950.8 | 1962.9 | 1968.0 | 1965.4 | 1978.2 | 1976.6 | 1994.6 | 2016.9 | 2047.8 | 2077.9 | 2121.6 |
| 5° | 1800.6 | 1813.5 | 1824.7 | 1835.0 | 1859.9 | 1867.5 | 1895.9 | 1938.8 | 1995.5 | 2053.0 | 2125.0 |
| 7.5° | 1660.7 | 1671.9 | 1689.1 | 1708.0 | 1750.0 | 1757.7 | 1804.9 | 1871.9 | 1950.8 | 2034.9 | 2134.5 |
| 10° | 1546.6 | 1557.8 | 1575.7 | 1597.3 | 1649.5 | 1659.1 | 1719.1 | 1808.4 | 1911.3 | 2017.8 | 2144.8 |
| 12.5° | 1497.6 | 1501.1 | 1511.4 | 1532.9 | 1578.3 | 1584.3 | 1650.5 | 1752.5 | 1872.8 | 2004.9 | 2160.3 |
| 15° | 1495.1 | 1501.9 | 1502.9 | 1513.9 | 1551.7 | 1554.3 | 1615.3 | 1716.6 | 1848.7 | 2002.3 | 2183.5 |
| 17.5° | 1520.8 | 1526.0 | 1518.2 | 1525.1 | 1556.9 | 1561.2 | 1609.2 | 1699.3 | 1841.0 | 2013.5 | 2222.9 |
| 20° | 1589.5 | 1593.8 | 1570.6 | 1561.2 | 1584.3 | 1587.8 | 1635.0 | 1710.5 | 1848.7 | 2036.7 | 2276.9 |
| 22.5° | 1735.4 | 1738.0 | 1681.3 | 1642.7 | 1644.4 | 1646.2 | 1687.4 | 1756.0 | 1878.7 | 2078.7 | 2345.6 |
| 25° | 1962.9 | 1961.1 | 1871.0 | 1796.3 | 1753.5 | 1744.0 | 1771.4 | 1829.8 | 1929.4 | 2134.5 | 2434.1 |
| 27.5° | 2228.9 | 2216.0 | 2126.0 | 2014.3 | 1920.7 | 1907.0 | 1901.1 | 1926.0 | 2001.4 | 2208.3 | 2542.2 |
| 30° | 2529.3 | 2517.3 | 2420.3 | 2274.4 | 2144.8 | 2122.5 | 2065.8 | 2053.0 | 2108.7 | 2308.7 | 2692.4 |
| 32.5° | 2858.8 | 2851.1 | 2735.3 | 2558.5 | 2385.1 | 2359.3 | 2264.1 | 2229.8 | 2273.6 | 2460.6 | 2901.8 |
| 35° | 3135.3 | 3128.4 | 3032.3 | 2850.3 | 2638.2 | 2606.6 | 2509.5 | 2471.0 | 2493.2 | 2655.5 | 3175.6 |
| 37.5° | 3385.0 | 3381.6 | 3299.2 | 3155.9 | 2936.9 | 2898.4 | 2789.3 | 2776.5 | 2772.2 | 2912.1 | 3507.8 |
| 40° | 3616.7 | 3608.1 | 3522.3 | 3446.8 | 3284.6 | 3249.4 | 3153.2 | 3142.1 | 3109.4 | 3227.9 | 3883.6 |
| 42.5° | 3873.4 | 3851.0 | 3726.6 | 3691.3 | 3647.6 | 3618.5 | 3561.0 | 3562.6 | 3490.5 | 3584.1 | 4281.8 |
| 45° | 4082.8 | 4069.9 | 3941.9 | 3921.4 | 3968.6 | 3956.6 | 4006.3 | 4019.2 | 3879.3 | 3957.4 | 4695.5 |
| 47.5° | 4307.7 | 4295.6 | 4187.4 | 4172.9 | 4300.8 | 4304.2 | 4480.2 | 4484.4 | 4258.7 | 4345.4 | 5110.1 |
| 50° | 4584.8 | 4567.7 | 4460.4 | 4478.4 | 4621.7 | 4634.6 | 4956.5 | 4927.3 | 4608.0 | 4739.3 | 5521.2 |
| 52.5° | 4767.7 | 4777.9 | 4754.8 | 4784.0 | 4979.7 | 4991.6 | 5425.1 | 5350.4 | 4953.9 | 5128.1 | 5924.6 |
| 55° | 4902.4 | 4923.0 | 4995.1 | 5062.1 | 5357.3 | 5369.3 | 5867.1 | 5752.9 | 5240.5 | 5488.6 | 6304.0 |
| 57.5° | 5075.8 | 5046.6 | 5181.4 | 5311.8 | 5716.0 | 5747.8 | 6297.1 | 6140.9 | 5494.6 | 5799.2 | 6564.0 |
| 60° | 5324.7 | 5304.1 | 5408.7 | 5601.8 | 6117.7 | 6168.3 | 6752.0 | 6490.2 | 5680.9 | 6045.6 | 6614.6 |
| 62.5° | 5829.3 | 5777.8 | 5794.1 | 5964.9 | 6624.1 | 6691.0 | 7265.2 | 6794.8 | 5773.5 | 6141.7 | 6343.4 |
| 65° | 6583.7 | 6495.3 | 6412.9 | 6531.4 | 7337.3 | 7403.4 | 7844.5 | 7034.3 | 5739.2 | 5955.5 | 5623.4 |
| 67.5° | 7533.9 | 7446.3 | 7345.0 | 7456.6 | 8387.8 | 8440.2 | 8559.5 | 7169.1 | 5468.9 | 5238.0 | 4350.5 |
| 70° | 8317.4 | 8284.8 | 8405.8 | 8865.0 | 10065.7 | 10067.4 | 9476.0 | 7057.4 | 4728.1 | 3713.7 | 2517.3 |
| 72.5° | 8213.5 | 8193.8 | 8831.5 | 10251.0 | 12180.5 | 12135.0 | 10343.8 | 6212.9 | 3185.0 | 1675.4 | 943.2 |
| 75° | 6738.2 | 6866.1 | 7854.0 | 10226.2 | 12940.0 | 12934.0 | 9812.5 | 3949.7 | 1317.4 | 694.3 | 487.5 |
| 77.5° | 3613.3 | 3815.9 | 5099.0 | 7550.2 | 10101.8 | 10253.7 | 6898.7 | 1381.8 | 565.6 | 444.5 | 337.3 |
| 80° | 1178.4 | 1355.2 | 2032.4 | 3844.2 | 6564.0 | 6535.7 | 2956.7 | 542.4 | 387.0 | 315.0 | 233.5 |
| 82.5° | 500.4 | 521.0 | 908.0 | 1815.2 | 3368.7 | 3316.3 | 941.5 | 311.6 | 272.0 | 215.5 | 144.2 |
| 85° | 195.7 | 218.8 | 400.8 | 839.4 | 1459.1 | 1427.3 | 339.9 | 154.5 | 174.2 | 140.7 | 85.8 |
| 87.5° | 64.4 | 78.1 | 143.3 | 287.5 | 454.0 | 437.7 | 83.2 | 53.2 | 75.5 | 64.4 | 30.9 |
| 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° | 2115.6 | 2115.6 | 2115.6 | 2115.6 | 2115.6 | 2115.6 | 2115.6 | 2115.6 | 2115.6 | 2115.6 | 2115.6 |
| 2.5° | 2133.6 | 2147.4 | 2163.7 | 2187.7 | 2208.3 | 2225.5 | 2243.5 | 2254.7 | 2258.9 | 2271.8 | 2271.0 |
| 5° | 2149.1 | 2179.1 | 2219.4 | 2258.9 | 2297.5 | 2320.7 | 2341.3 | 2351.7 | 2361.1 | 2368.0 | 2369.7 |
| 7.5° | 2174.8 | 2213.5 | 2276.9 | 2328.5 | 2361.1 | 2379.9 | 2393.7 | 2390.3 | 2393.7 | 2395.4 | 2398.0 |
| 10° | 2197.2 | 2251.2 | 2326.8 | 2375.6 | 2400.5 | 2401.4 | 2398.0 | 2386.0 | 2379.9 | 2380.8 | 2382.5 |
| 12.5° | 2223.7 | 2283.8 | 2365.4 | 2406.6 | 2413.5 | 2394.5 | 2379.9 | 2359.3 | 2351.7 | 2348.2 | 2346.5 |
| 15° | 2259.8 | 2328.5 | 2407.4 | 2422.9 | 2405.7 | 2381.7 | 2356.8 | 2323.3 | 2306.1 | 2292.4 | 2296.7 |
| 17.5° | 2303.6 | 2379.1 | 2440.0 | 2428.8 | 2391.9 | 2352.5 | 2312.2 | 2261.6 | 2226.3 | 2211.7 | 2212.6 |
| 20° | 2364.5 | 2432.3 | 2464.9 | 2416.0 | 2360.3 | 2300.1 | 2231.5 | 2169.7 | 2137.0 | 2122.5 | 2120.7 |
| 22.5° | 2438.3 | 2503.6 | 2489.0 | 2393.7 | 2314.8 | 2218.6 | 2132.8 | 2087.3 | 2071.0 | 2060.7 | 2062.4 |
| 25° | 2526.7 | 2582.5 | 2506.1 | 2361.1 | 2240.0 | 2110.5 | 2044.4 | 2029.8 | 2022.0 | 2014.3 | 2014.3 |
| 27.5° | 2641.7 | 2671.8 | 2519.0 | 2313.0 | 2123.3 | 1995.5 | 1971.4 | 1974.0 | 1971.4 | 1958.6 | 1961.1 |
| 30° | 2793.6 | 2787.6 | 2531.0 | 2234.9 | 1989.4 | 1891.6 | 1893.3 | 1904.4 | 1906.2 | 1897.6 | 1901.9 |
| 32.5° | 2993.6 | 2932.7 | 2537.0 | 2133.6 | 1861.6 | 1800.6 | 1802.4 | 1814.4 | 1823.0 | 1808.4 | 1815.2 |
| 35° | 3235.6 | 3101.8 | 2527.5 | 2006.6 | 1762.9 | 1713.9 | 1701.1 | 1704.5 | 1707.0 | 1693.3 | 1702.8 |
| 37.5° | 3518.0 | 3291.5 | 2485.5 | 1865.9 | 1681.3 | 1628.9 | 1601.6 | 1578.3 | 1564.6 | 1551.7 | 1560.4 |
| 40° | 3827.9 | 3498.2 | 2408.2 | 1728.6 | 1590.4 | 1538.8 | 1497.6 | 1453.9 | 1407.5 | 1390.4 | 1398.1 |
| 42.5° | 4152.3 | 3711.1 | 2314.8 | 1597.3 | 1485.6 | 1443.6 | 1399.8 | 1336.3 | 1266.8 | 1231.6 | 1235.9 |
| 45° | 4488.7 | 3929.1 | 2222.9 | 1467.6 | 1378.3 | 1360.4 | 1309.7 | 1233.3 | 1157.8 | 1113.1 | 1109.8 |
| 47.5° | 4818.3 | 4135.1 | 2088.1 | 1337.2 | 1278.0 | 1297.6 | 1258.2 | 1187.9 | 1103.7 | 1033.3 | 1025.6 |
| 50° | 5133.3 | 4328.2 | 1867.5 | 1205.0 | 1196.4 | 1278.8 | 1241.1 | 1139.8 | 1043.7 | 953.6 | 945.8 |
| 52.5° | 5445.6 | 4484.4 | 1585.2 | 1084.9 | 1152.6 | 1273.7 | 1218.7 | 1107.2 | 989.5 | 895.1 | 884.9 |
| 55° | 5710.9 | 4565.0 | 1313.1 | 981.8 | 1089.2 | 1229.9 | 1192.1 | 1068.6 | 913.2 | 812.7 | 804.2 |
| 57.5° | 5862.0 | 4499.9 | 1086.6 | 880.6 | 1001.6 | 1157.8 | 1146.7 | 986.2 | 822.3 | 745.0 | 734.7 |
| 60° | 5796.7 | 4235.5 | 901.2 | 792.2 | 918.3 | 1079.7 | 1067.6 | 904.6 | 752.7 | 679.8 | 669.4 |
| 62.5° | 5437.1 | 3731.7 | 754.4 | 714.9 | 842.9 | 999.9 | 988.7 | 841.9 | 699.5 | 629.1 | 618.0 |
| 65° | 4712.7 | 3035.6 | 640.2 | 650.6 | 766.4 | 903.7 | 920.0 | 789.6 | 657.4 | 588.8 | 577.6 |
| 67.5° | 3594.4 | 2198.8 | 551.0 | 594.8 | 691.8 | 809.3 | 856.6 | 751.8 | 622.3 | 557.0 | 546.7 |
| 70° | 2048.7 | 1248.8 | 475.5 | 540.7 | 625.7 | 721.8 | 807.6 | 721.8 | 584.5 | 530.4 | 523.6 |
| 72.5° | 776.7 | 573.3 | 411.1 | 486.7 | 562.1 | 648.0 | 753.6 | 674.6 | 540.7 | 500.4 | 493.5 |
| 75° | 414.5 | 349.3 | 345.8 | 423.1 | 489.2 | 575.8 | 685.7 | 628.2 | 508.1 | 528.7 | 545.8 |
| 77.5° | 282.4 | 247.2 | 289.3 | 362.2 | 409.4 | 496.1 | 613.7 | 557.9 | 440.2 | 438.6 | 404.3 |
| 80° | 195.7 | 175.1 | 235.1 | 291.8 | 316.7 | 417.1 | 535.6 | 478.9 | 358.7 | 334.8 | 320.1 |
| 82.5° | 117.6 | 114.2 | 176.0 | 218.0 | 224.0 | 321.8 | 443.7 | 401.7 | 293.6 | 255.7 | 257.5 |
| 85° | 64.4 | 67.8 | 112.4 | 127.9 | 130.5 | 224.9 | 347.6 | 310.7 | 225.7 | 189.6 | 191.4 |
| 87.5° | 18.0 | 23.2 | 41.2 | 50.6 | 62.6 | 116.7 | 206.8 | 184.5 | 113.3 | 78.9 | 78.9 |
| 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)