

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: P962360

Luminaire Tested: **NVN-SB2C-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2C-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12570.6 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

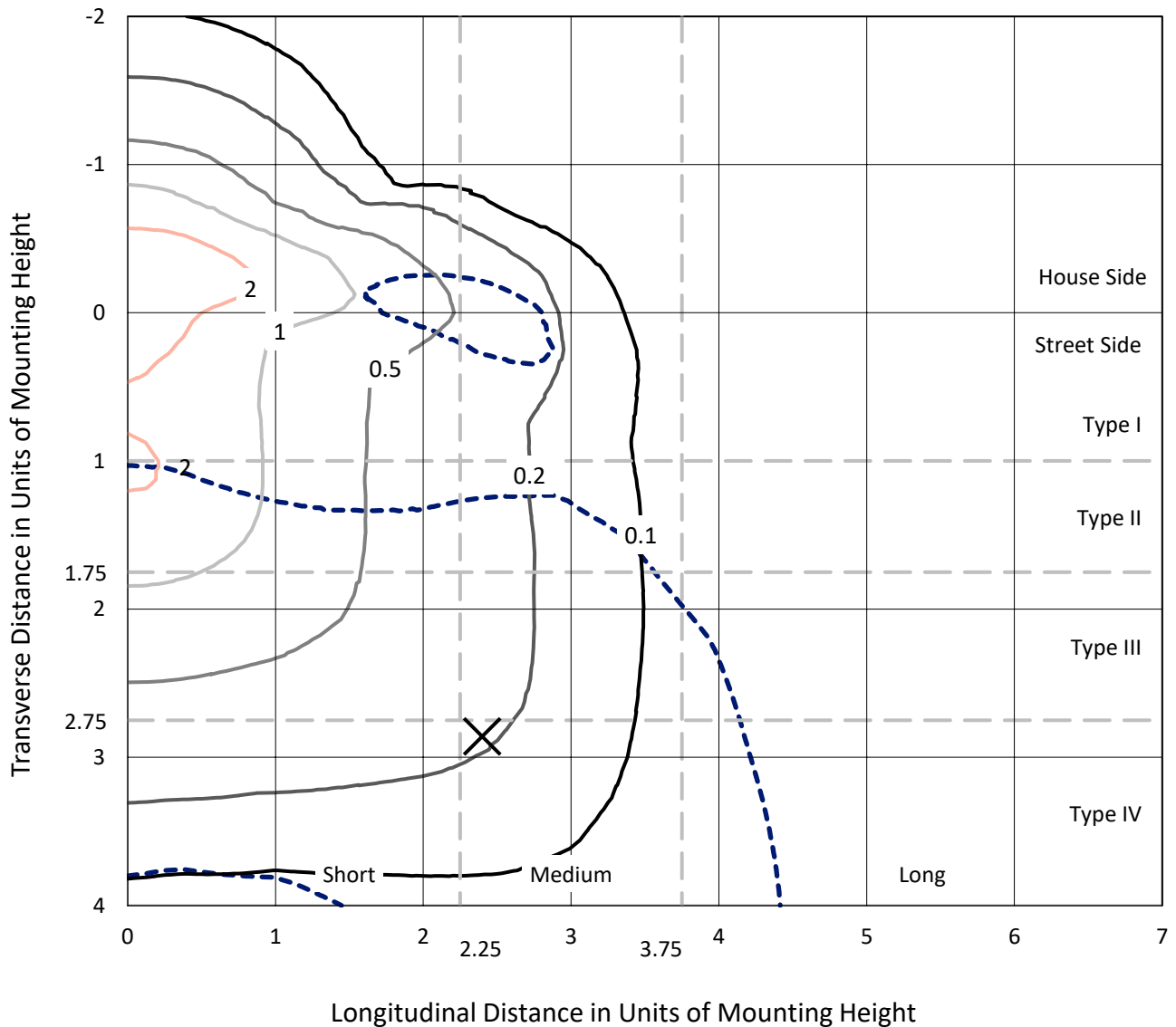
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

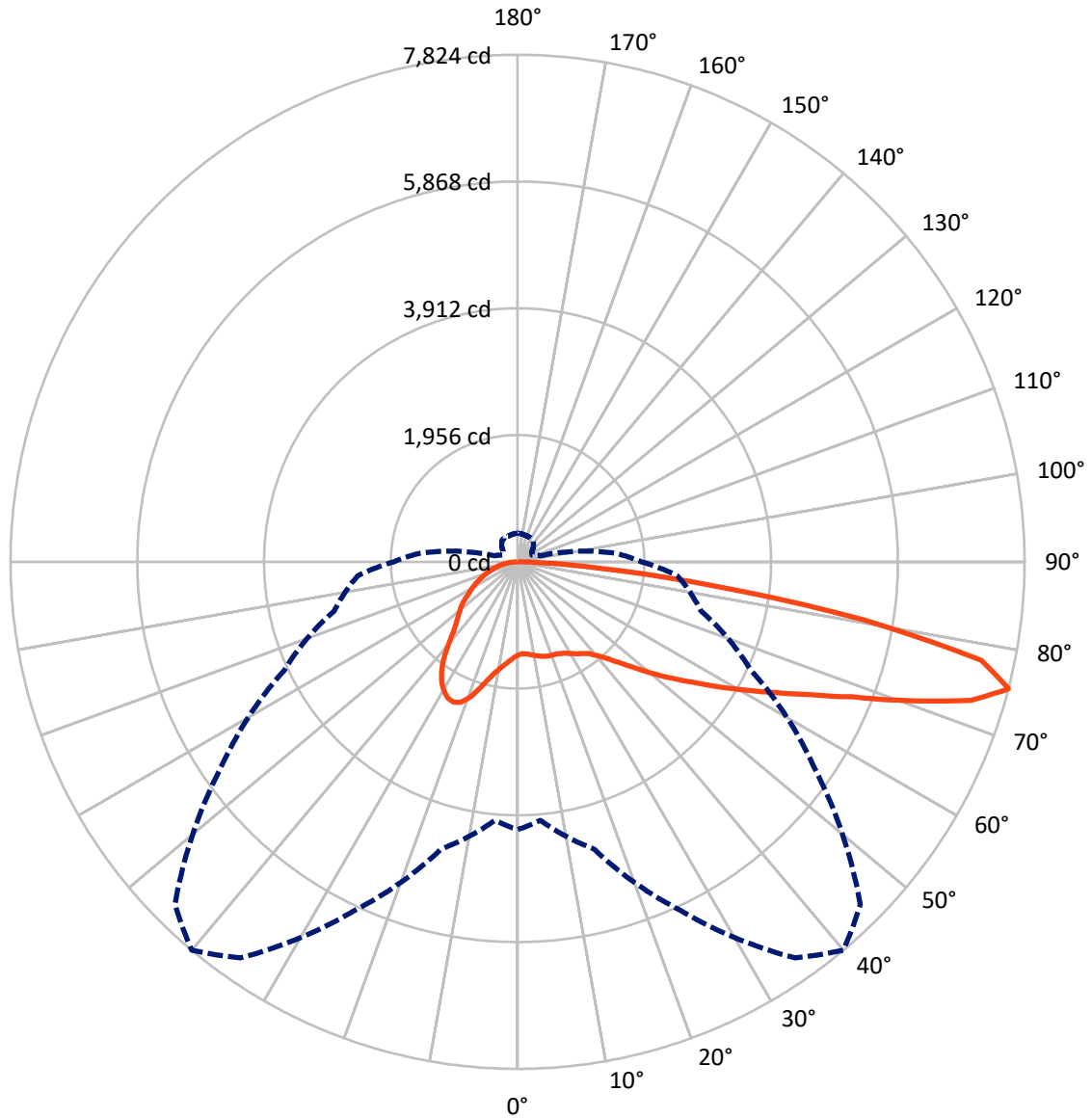
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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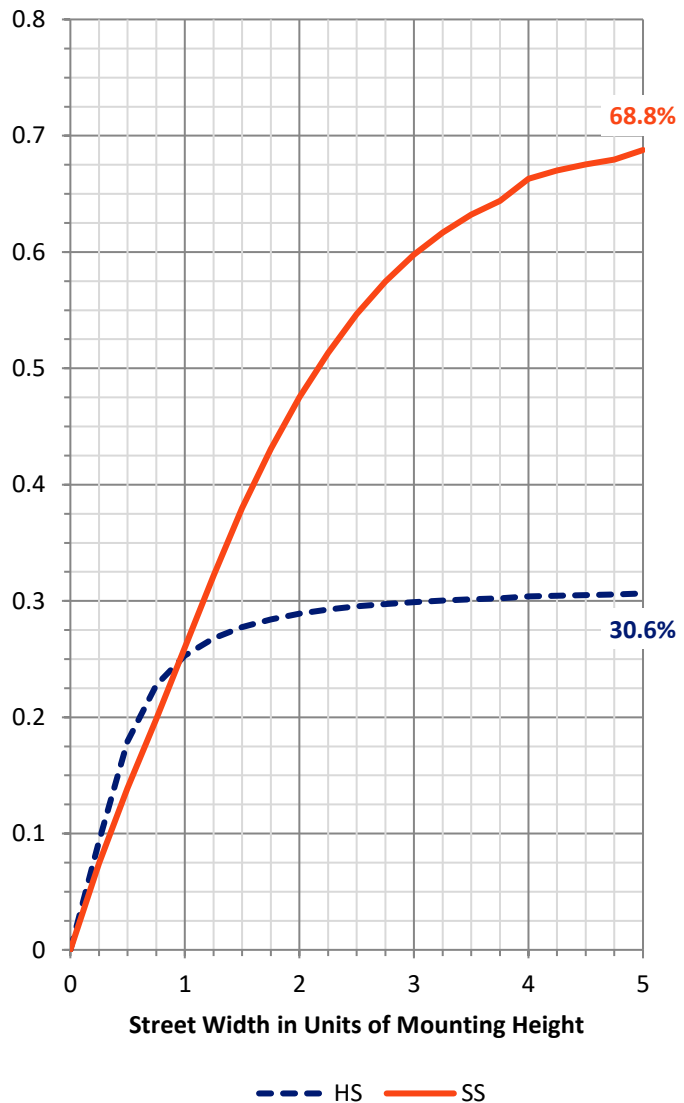
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3894.8 | 0.0 | 3894.8 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 8675.8 | 0.0 | 8675.8 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 12570.6 | 0.0 | 12570.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 143.5 | 1.1 |
| 10°-20° | 481.7 | 3.8 |
| 20°-30° | 879.6 | 7.0 |
| 30°-40° | 1247.6 | 9.9 |
| 40°-50° | 1684.6 | 13.4 |
| 50°-60° | 2266.2 | 18.0 |
| 60°-70° | 2876.4 | 22.9 |
| 70°-80° | 2610.5 | 20.8 |
| 80°-90° | 380.5 | 3.0 |
| 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° | 12570.6 | 100.0 |
| 0°-180° | 12570.6 | 100.0 |

Coefficient of Utilization

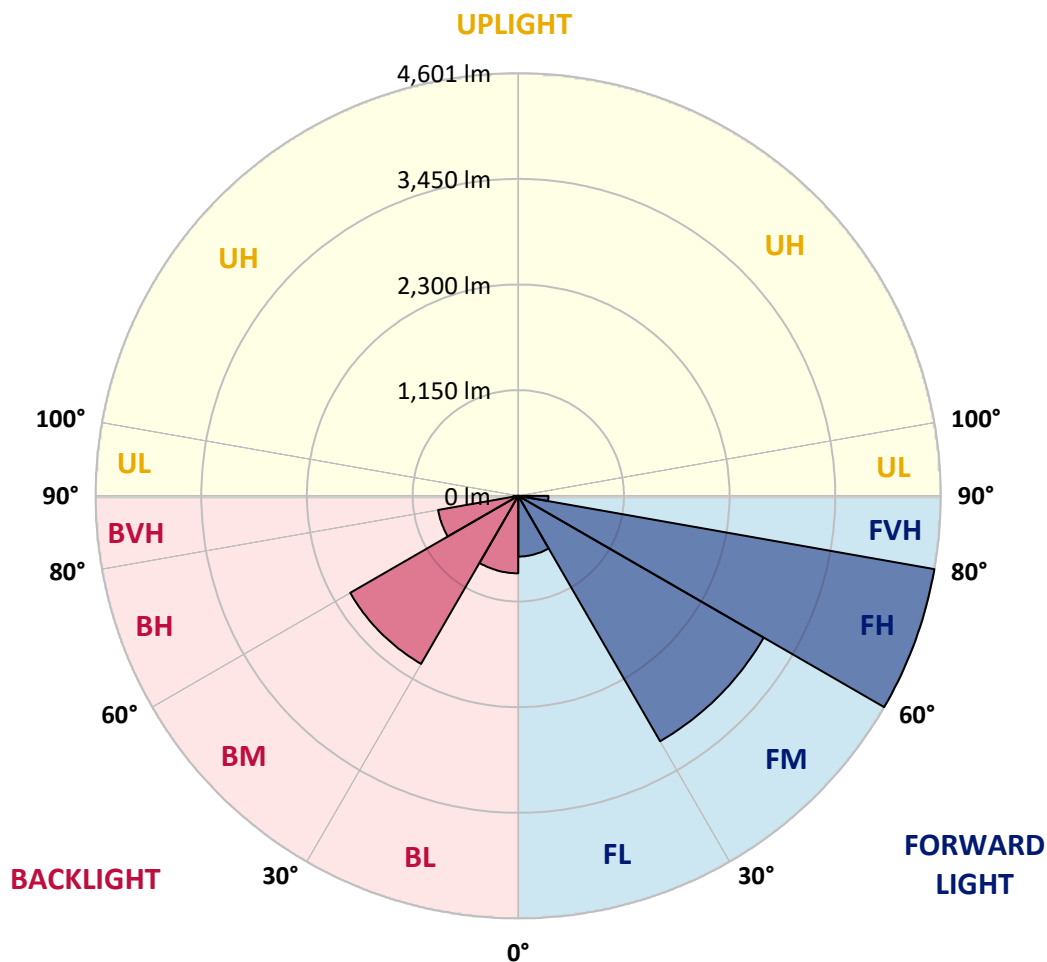


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 661.2 | 5.3 | | | |
| FM (30°-60°) | 3085.8 | 24.5 | | | |
| FH (60°-80°) | 4600.6 | 36.6 | | | G2/5000 |
| FVH (80°-90°) | 328.1 | 2.6 | | | G3/500 |
| BL (0°-30°) | 843.6 | 6.7 | B2/1000 | | |
| BM (30°-60°) | 2112.6 | 16.8 | B2/2500 | | |
| BH (60°-80°) | 886.2 | 7.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 52.4 | 0.4 | | | 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° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1437.5 | 1437.5 | 1437.5 | 1437.5 | 1437.5 | 1437.5 | 1437.5 | 1437.5 | 1437.5 | 1437.5 | 1437.5 |
| 2.5° | 1415.4 | 1423.4 | 1421.5 | 1418.8 | 1418.8 | 1419.4 | 1418.8 | 1423.4 | 1428.1 | 1432.8 | 1440.1 |
| 5° | 1430.1 | 1438.2 | 1434.2 | 1430.8 | 1428.1 | 1427.4 | 1425.5 | 1424.7 | 1427.4 | 1433.5 | 1443.5 |
| 7.5° | 1458.8 | 1466.8 | 1460.8 | 1454.8 | 1449.5 | 1446.8 | 1444.1 | 1440.1 | 1438.2 | 1441.5 | 1455.5 |
| 10° | 1490.8 | 1498.8 | 1491.5 | 1480.8 | 1472.1 | 1468.8 | 1466.2 | 1462.2 | 1459.5 | 1461.4 | 1476.8 |
| 12.5° | 1522.8 | 1530.8 | 1520.8 | 1506.1 | 1494.8 | 1492.8 | 1489.4 | 1488.1 | 1487.5 | 1486.8 | 1502.1 |
| 15° | 1552.8 | 1559.4 | 1546.8 | 1529.5 | 1517.5 | 1514.1 | 1510.8 | 1512.8 | 1516.2 | 1520.2 | 1537.5 |
| 17.5° | 1576.1 | 1582.8 | 1564.1 | 1541.5 | 1530.1 | 1528.8 | 1526.8 | 1533.5 | 1542.8 | 1552.8 | 1574.2 |
| 20° | 1597.5 | 1604.1 | 1580.1 | 1549.5 | 1536.2 | 1536.2 | 1536.8 | 1550.8 | 1564.1 | 1578.8 | 1608.1 |
| 22.5° | 1627.5 | 1632.8 | 1603.5 | 1561.5 | 1542.1 | 1543.4 | 1548.8 | 1562.8 | 1579.5 | 1599.5 | 1640.1 |
| 25° | 1672.2 | 1676.2 | 1640.1 | 1584.1 | 1562.1 | 1566.1 | 1570.8 | 1577.5 | 1593.5 | 1616.8 | 1671.5 |
| 27.5° | 1744.1 | 1747.5 | 1700.2 | 1624.1 | 1590.8 | 1597.5 | 1604.1 | 1599.5 | 1606.8 | 1626.8 | 1696.8 |
| 30° | 1845.5 | 1847.5 | 1787.5 | 1686.8 | 1639.5 | 1642.8 | 1644.1 | 1624.8 | 1610.8 | 1626.8 | 1714.8 |
| 32.5° | 1965.5 | 1964.8 | 1893.5 | 1762.8 | 1694.8 | 1691.5 | 1680.2 | 1642.2 | 1609.5 | 1623.5 | 1730.8 |
| 35° | 2151.6 | 2144.2 | 2052.2 | 1869.5 | 1757.5 | 1736.9 | 1710.1 | 1661.5 | 1616.1 | 1620.1 | 1744.9 |
| 37.5° | 2459.6 | 2436.9 | 2309.5 | 2044.2 | 1850.8 | 1798.2 | 1758.8 | 1692.8 | 1630.8 | 1618.8 | 1761.5 |
| 40° | 2807.0 | 2778.3 | 2638.2 | 2283.5 | 1990.9 | 1906.2 | 1842.8 | 1737.5 | 1654.9 | 1624.8 | 1786.2 |
| 42.5° | 3218.9 | 3178.3 | 3027.6 | 2565.6 | 2168.2 | 2045.5 | 1950.2 | 1794.2 | 1690.1 | 1644.1 | 1819.5 |
| 45° | 3725.1 | 3671.0 | 3457.6 | 2883.6 | 2391.5 | 2228.2 | 2100.8 | 1880.2 | 1744.1 | 1681.5 | 1869.5 |
| 47.5° | 4236.4 | 4249.8 | 3946.4 | 3247.6 | 2659.6 | 2453.5 | 2289.5 | 2009.5 | 1822.9 | 1741.5 | 1950.2 |
| 50° | 4779.8 | 4789.1 | 4432.4 | 3651.0 | 2963.6 | 2708.3 | 2501.5 | 2154.2 | 1932.2 | 1826.9 | 2070.8 |
| 52.5° | 5203.8 | 5205.2 | 4873.8 | 4073.0 | 3280.3 | 2988.3 | 2730.3 | 2319.6 | 2058.8 | 1940.2 | 2231.5 |
| 55° | 5469.2 | 5465.8 | 5183.1 | 4472.4 | 3644.3 | 3282.3 | 2983.6 | 2507.6 | 2213.5 | 2073.5 | 2433.6 |
| 57.5° | 5661.9 | 5651.8 | 5396.5 | 4815.8 | 4032.3 | 3629.6 | 3270.3 | 2721.0 | 2396.2 | 2232.2 | 2699.5 |
| 60° | 5735.2 | 5729.2 | 5541.2 | 5112.5 | 4440.4 | 4013.7 | 3601.0 | 2959.6 | 2603.6 | 2419.5 | 3041.6 |
| 62.5° | 5763.2 | 5774.5 | 5683.2 | 5399.8 | 4877.2 | 4439.1 | 3964.4 | 3244.9 | 2836.9 | 2631.6 | 3402.3 |
| 65° | 5861.9 | 5882.6 | 5863.8 | 5775.9 | 5370.5 | 4937.1 | 4446.4 | 3584.3 | 3091.6 | 2858.9 | 3779.0 |
| 67.5° | 6057.2 | 6077.8 | 6085.9 | 6226.0 | 5973.2 | 5557.9 | 5047.8 | 4007.0 | 3389.7 | 3095.0 | 4062.4 |
| 70° | 6052.5 | 6046.6 | 6187.9 | 6584.0 | 6728.0 | 6417.2 | 5858.5 | 4527.1 | 3745.0 | 3291.0 | 4098.4 |
| 72.5° | 5509.2 | 5461.2 | 5795.2 | 6579.9 | 7356.0 | 7314.7 | 6848.6 | 5197.8 | 4051.7 | 3315.0 | 3556.3 |
| 75° | 4133.0 | 4005.0 | 4595.1 | 5929.8 | 7460.7 | 7824.0 | 7478.0 | 5613.8 | 3979.0 | 2928.9 | 2474.9 |
| 77.5° | 1767.5 | 1638.8 | 2334.2 | 4389.8 | 6677.3 | 7314.0 | 6900.6 | 4897.8 | 3176.3 | 1936.8 | 1215.4 |
| 80° | 462.7 | 462.1 | 705.4 | 1990.1 | 4541.1 | 5401.1 | 4738.5 | 3162.9 | 1814.9 | 692.1 | 335.4 |
| 82.5° | 191.4 | 186.7 | 259.3 | 774.1 | 2218.9 | 3030.9 | 2473.5 | 1410.8 | 655.4 | 187.4 | 111.3 |
| 85° | 71.3 | 70.6 | 126.0 | 267.3 | 782.7 | 1250.1 | 904.8 | 360.7 | 163.4 | 91.3 | 50.0 |
| 87.5° | 20.0 | 19.4 | 27.4 | 92.7 | 190.6 | 289.4 | 154.7 | 59.3 | 46.0 | 36.0 | 14.7 |
| 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° | 1437.5 | 1437.5 | 1437.5 | 1437.5 | 1437.5 | 1437.5 | 1437.5 | 1437.5 | 1437.5 | 1437.5 | 1437.5 |
| 2.5° | 1442.2 | 1445.5 | 1451.5 | 1456.1 | 1462.2 | 1468.8 | 1478.2 | 1484.1 | 1490.1 | 1494.1 | 1491.5 |
| 5° | 1448.1 | 1455.5 | 1470.8 | 1486.1 | 1504.2 | 1520.8 | 1540.2 | 1554.1 | 1565.5 | 1568.8 | 1570.1 |
| 7.5° | 1461.4 | 1473.4 | 1499.5 | 1525.5 | 1554.1 | 1581.5 | 1609.5 | 1633.4 | 1652.8 | 1660.2 | 1660.8 |
| 10° | 1484.8 | 1500.8 | 1537.5 | 1574.2 | 1612.1 | 1654.1 | 1690.1 | 1724.9 | 1752.1 | 1763.5 | 1764.1 |
| 12.5° | 1514.1 | 1534.1 | 1582.2 | 1632.8 | 1685.5 | 1743.5 | 1790.2 | 1832.8 | 1866.8 | 1882.2 | 1882.2 |
| 15° | 1552.2 | 1578.2 | 1639.5 | 1707.4 | 1784.8 | 1865.5 | 1924.8 | 1972.2 | 2010.2 | 2028.9 | 2027.6 |
| 17.5° | 1593.5 | 1628.1 | 1705.5 | 1808.2 | 1918.8 | 2024.9 | 2094.2 | 2128.8 | 2168.2 | 2186.2 | 2185.5 |
| 20° | 1633.4 | 1676.2 | 1786.8 | 1936.2 | 2083.5 | 2196.2 | 2252.2 | 2261.6 | 2264.2 | 2266.2 | 2271.5 |
| 22.5° | 1674.8 | 1732.1 | 1888.9 | 2097.6 | 2255.5 | 2333.5 | 2341.5 | 2301.5 | 2245.6 | 2219.5 | 2226.9 |
| 25° | 1720.2 | 1796.2 | 2022.2 | 2275.5 | 2403.5 | 2412.8 | 2351.6 | 2254.2 | 2148.2 | 2099.5 | 2106.9 |
| 27.5° | 1764.1 | 1870.2 | 2182.2 | 2445.5 | 2510.2 | 2428.2 | 2296.2 | 2158.2 | 2030.2 | 1978.9 | 1984.8 |
| 30° | 1808.2 | 1954.9 | 2358.8 | 2594.3 | 2558.9 | 2390.2 | 2208.9 | 2054.8 | 1926.2 | 1872.2 | 1878.2 |
| 32.5° | 1852.8 | 2053.5 | 2562.2 | 2701.6 | 2550.2 | 2309.5 | 2100.2 | 1938.9 | 1825.5 | 1768.8 | 1776.1 |
| 35° | 1903.5 | 2174.8 | 2754.9 | 2760.2 | 2492.2 | 2190.8 | 1956.8 | 1800.2 | 1701.5 | 1656.2 | 1666.1 |
| 37.5° | 1969.5 | 2328.9 | 2924.9 | 2774.9 | 2390.9 | 2016.9 | 1778.8 | 1636.1 | 1554.8 | 1534.1 | 1548.8 |
| 40° | 2051.5 | 2514.2 | 3054.9 | 2751.6 | 2240.9 | 1805.5 | 1584.1 | 1470.2 | 1424.1 | 1428.7 | 1444.8 |
| 42.5° | 2158.2 | 2721.6 | 3146.2 | 2691.5 | 2032.2 | 1587.5 | 1413.5 | 1362.8 | 1384.8 | 1403.4 | 1420.8 |
| 45° | 2296.9 | 2936.9 | 3202.9 | 2589.6 | 1796.2 | 1402.8 | 1312.8 | 1324.8 | 1341.4 | 1343.5 | 1356.8 |
| 47.5° | 2474.2 | 3155.0 | 3240.3 | 2435.6 | 1555.4 | 1272.7 | 1248.8 | 1251.4 | 1248.1 | 1234.1 | 1244.8 |
| 50° | 2695.5 | 3367.0 | 3273.6 | 2231.5 | 1350.7 | 1191.5 | 1159.5 | 1150.2 | 1104.1 | 1058.7 | 1064.8 |
| 52.5° | 2947.6 | 3561.7 | 3287.6 | 1978.1 | 1191.5 | 1123.4 | 1071.4 | 1012.8 | 926.7 | 912.8 | 917.4 |
| 55° | 3227.6 | 3741.7 | 3251.6 | 1666.9 | 1057.4 | 1036.1 | 957.5 | 886.7 | 877.4 | 865.4 | 867.5 |
| 57.5° | 3562.3 | 3935.7 | 3178.3 | 1319.5 | 920.0 | 934.1 | 857.4 | 865.4 | 848.7 | 830.0 | 826.8 |
| 60° | 3928.3 | 4136.4 | 3049.6 | 1002.8 | 778.1 | 806.8 | 831.4 | 830.8 | 826.0 | 810.8 | 805.4 |
| 62.5° | 4257.7 | 4268.4 | 2796.3 | 768.0 | 653.4 | 708.1 | 775.4 | 774.7 | 770.7 | 762.1 | 758.7 |
| 65° | 4453.7 | 4248.4 | 2373.6 | 604.8 | 550.7 | 626.7 | 699.4 | 704.7 | 705.4 | 704.7 | 704.7 |
| 67.5° | 4419.1 | 4014.4 | 1793.5 | 481.3 | 466.1 | 544.1 | 624.0 | 631.4 | 636.7 | 638.1 | 639.4 |
| 70° | 4027.0 | 3500.3 | 1169.4 | 384.1 | 390.7 | 471.4 | 552.7 | 560.1 | 564.7 | 570.0 | 572.8 |
| 72.5° | 3139.0 | 2573.6 | 669.4 | 310.7 | 324.7 | 408.7 | 482.1 | 490.7 | 493.3 | 503.4 | 507.4 |
| 75° | 1912.9 | 1513.5 | 361.4 | 244.7 | 266.7 | 349.3 | 412.0 | 422.0 | 426.7 | 438.7 | 440.0 |
| 77.5° | 909.4 | 655.4 | 206.0 | 190.6 | 214.7 | 285.4 | 348.0 | 359.4 | 346.7 | 353.3 | 348.0 |
| 80° | 307.4 | 243.3 | 130.0 | 145.3 | 164.0 | 222.7 | 278.7 | 290.1 | 263.3 | 262.0 | 259.3 |
| 82.5° | 107.3 | 98.7 | 82.7 | 96.7 | 106.0 | 159.4 | 210.6 | 225.4 | 196.0 | 195.4 | 186.0 |
| 85° | 42.0 | 40.0 | 46.0 | 52.7 | 63.3 | 98.0 | 138.7 | 146.1 | 120.6 | 97.4 | 96.0 |
| 87.5° | 8.7 | 9.3 | 11.4 | 12.0 | 19.4 | 34.0 | 50.0 | 61.3 | 48.7 | 41.3 | 38.0 |
| 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)