

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: P883150

Luminaire Tested: **NVN-SB3B-835-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3B-835-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10790 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

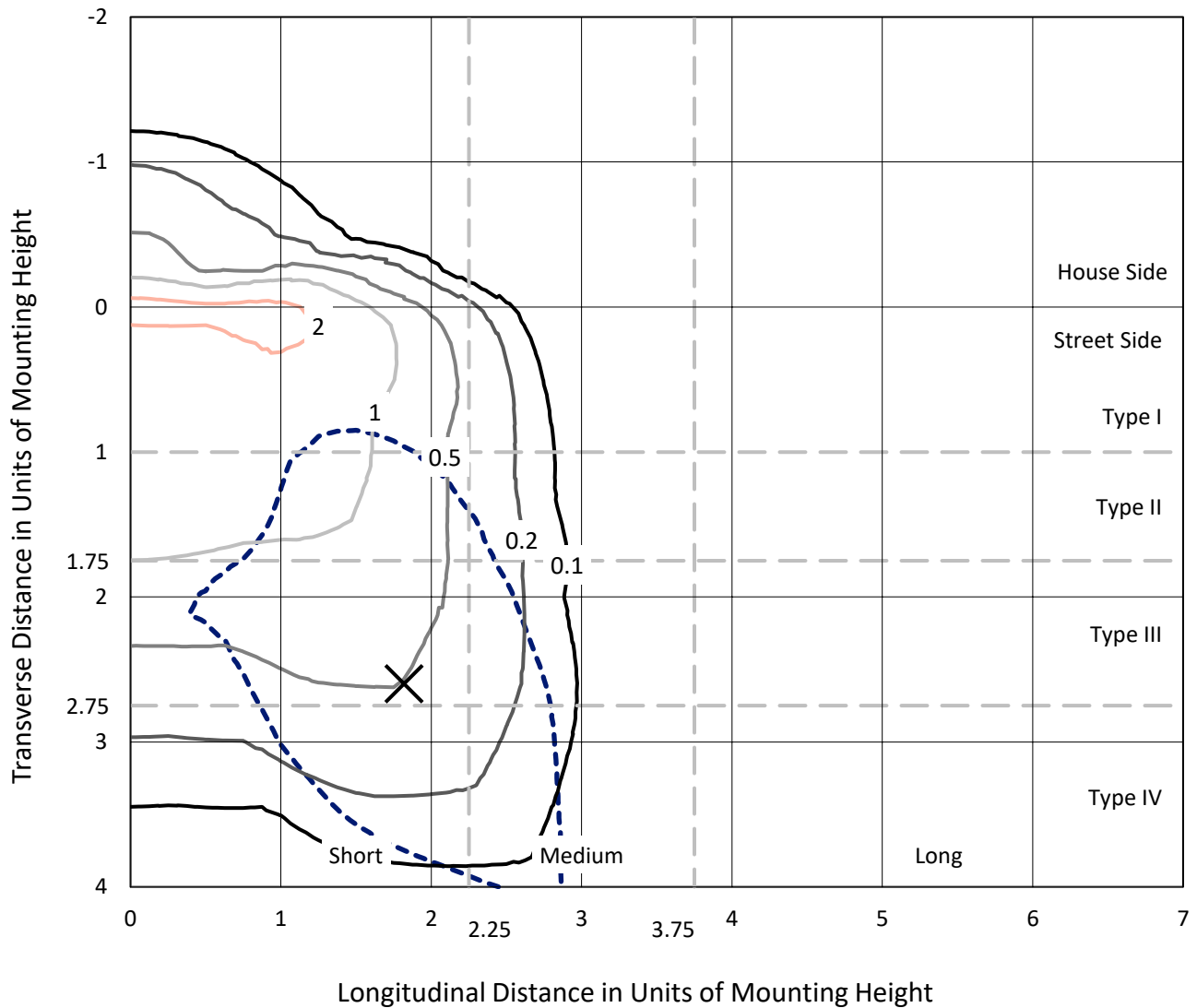
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

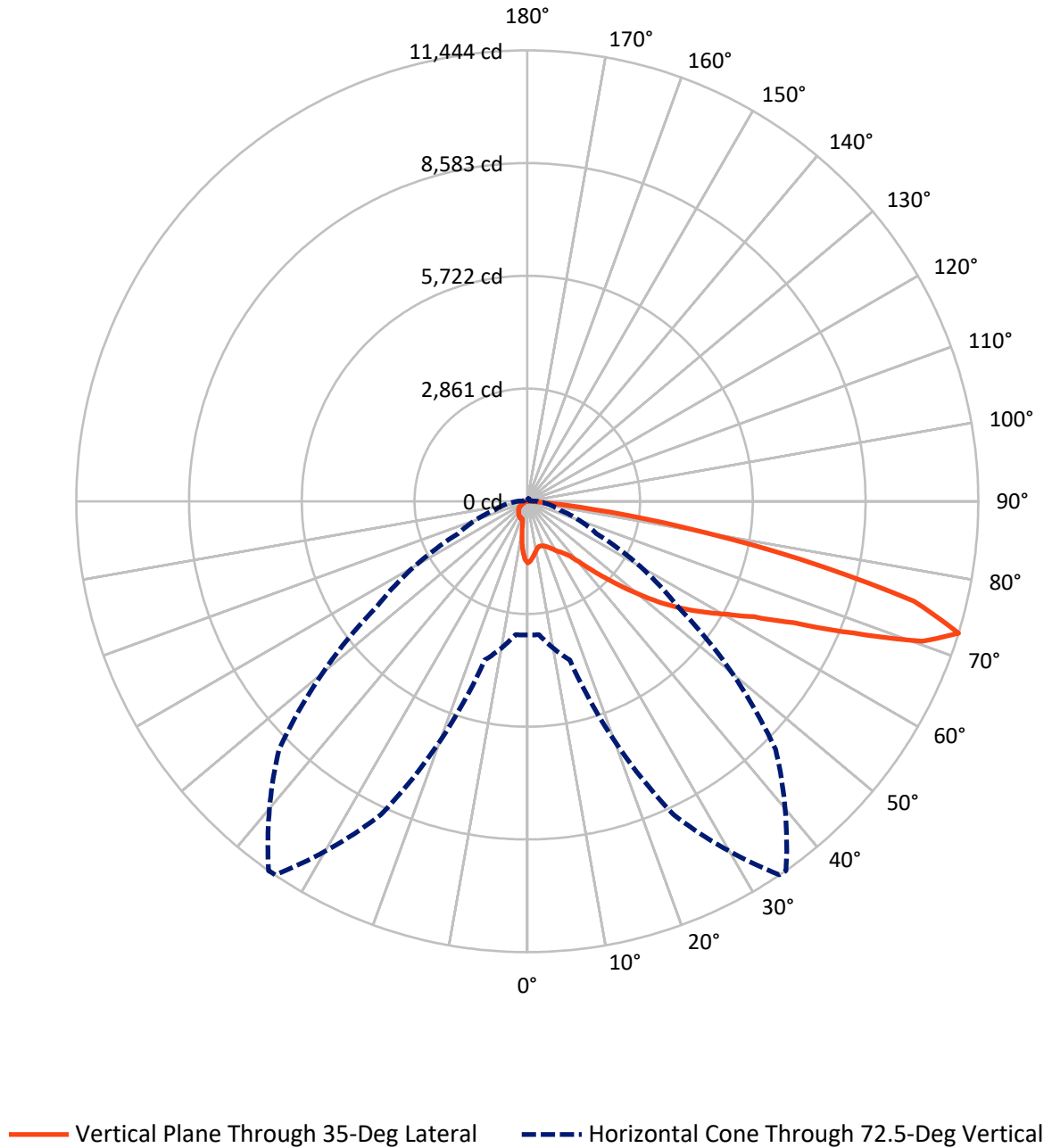
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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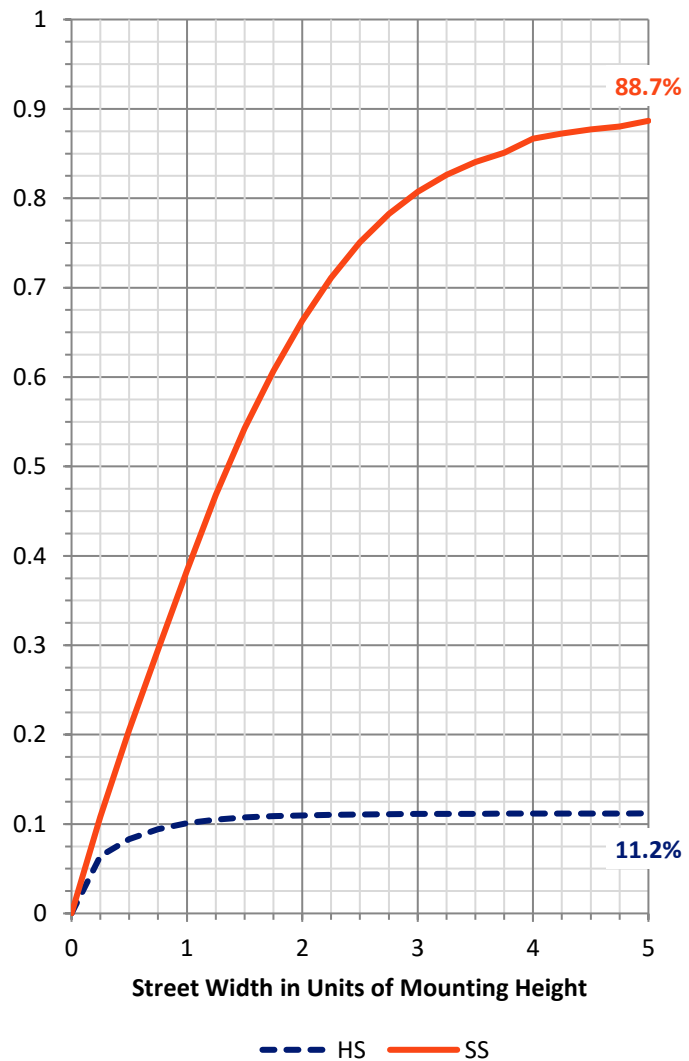
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1214.4 | 0.0 | 1214.4 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 9575.6 | 0.0 | 9575.6 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 10790.0 | 0.0 | 10790.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 128.5 | 1.2 |
| 10°-20° | 300.6 | 2.8 |
| 20°-30° | 488.4 | 4.5 |
| 30°-40° | 814.8 | 7.6 |
| 40°-50° | 1541.7 | 14.3 |
| 50°-60° | 2449.7 | 22.7 |
| 60°-70° | 3030.4 | 28.1 |
| 70°-80° | 1883.7 | 17.5 |
| 80°-90° | 152.2 | 1.4 |
| 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° | 10790.0 | 100.0 |
| 0°-180° | 10790.0 | 100.0 |

Coefficient of Utilization



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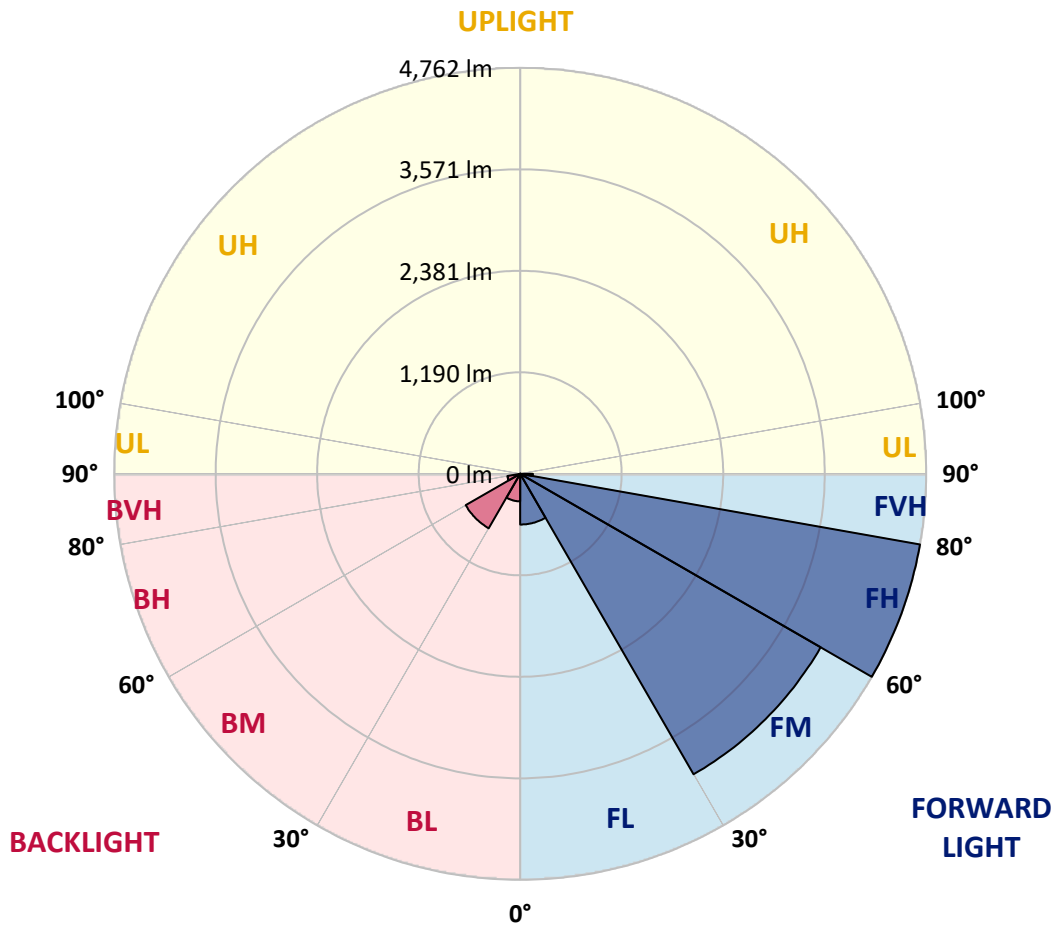
CATALOG NUMBER: NVN-SB3B-835-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 594.8 | 5.5 | | | |
| FM (30°-60°) | 4068.9 | 37.7 | | | |
| FH (60°-80°) | 4761.8 | 44.1 | | | G2/5000 |
| FVH (80°-90°) | 150.2 | 1.4 | | | G2/225 |
| BL (0°-30°) | 322.7 | 3.0 | B1/500 | | |
| BM (30°-60°) | 737.2 | 6.8 | B1/1000 | | |
| BH (60°-80°) | 152.4 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 1563.8 | 1563.8 | 1563.8 | 1563.8 | 1563.8 | 1563.8 | 1563.8 | 1563.8 | 1563.8 | 1563.8 | 1563.8 |
| 2.5° | 1494.3 | 1506.9 | 1509.3 | 1513.2 | 1513.2 | 1518.0 | 1525.9 | 1537.0 | 1555.1 | 1564.6 | 1570.9 |
| 5° | 1377.2 | 1386.7 | 1398.6 | 1408.1 | 1426.3 | 1428.6 | 1459.5 | 1489.5 | 1531.4 | 1563.0 | 1585.2 |
| 7.5° | 1259.4 | 1270.5 | 1286.3 | 1309.3 | 1333.0 | 1340.1 | 1386.7 | 1437.3 | 1503.7 | 1563.0 | 1600.2 |
| 10° | 1176.4 | 1177.2 | 1191.5 | 1214.4 | 1252.3 | 1261.0 | 1318.0 | 1389.9 | 1472.9 | 1553.6 | 1614.4 |
| 12.5° | 1129.8 | 1135.3 | 1141.6 | 1159.0 | 1195.4 | 1200.9 | 1261.8 | 1346.4 | 1442.1 | 1548.0 | 1631.0 |
| 15° | 1129.8 | 1133.7 | 1137.7 | 1146.4 | 1175.6 | 1180.4 | 1234.1 | 1318.7 | 1426.3 | 1550.4 | 1657.9 |
| 17.5° | 1141.6 | 1148.0 | 1144.8 | 1155.1 | 1185.9 | 1189.1 | 1236.5 | 1310.8 | 1425.5 | 1565.4 | 1699.0 |
| 20° | 1170.1 | 1174.9 | 1168.5 | 1174.9 | 1205.7 | 1212.0 | 1261.0 | 1325.9 | 1438.9 | 1591.5 | 1750.4 |
| 22.5° | 1215.2 | 1217.5 | 1202.5 | 1207.3 | 1238.9 | 1246.8 | 1303.7 | 1368.6 | 1471.3 | 1633.4 | 1819.2 |
| 25° | 1272.1 | 1276.8 | 1253.9 | 1259.4 | 1289.5 | 1299.0 | 1364.6 | 1432.6 | 1522.7 | 1691.1 | 1907.0 |
| 27.5° | 1337.7 | 1340.1 | 1320.3 | 1319.5 | 1358.3 | 1371.7 | 1438.1 | 1511.7 | 1591.5 | 1763.9 | 2017.6 |
| 30° | 1412.8 | 1419.9 | 1401.0 | 1397.8 | 1446.8 | 1457.9 | 1523.5 | 1608.9 | 1692.7 | 1873.0 | 2175.0 |
| 32.5° | 1472.1 | 1477.7 | 1466.6 | 1474.5 | 1524.3 | 1533.0 | 1627.1 | 1746.5 | 1851.6 | 2027.9 | 2389.2 |
| 35° | 1557.5 | 1560.7 | 1535.4 | 1549.6 | 1606.5 | 1628.7 | 1768.6 | 1939.4 | 2051.6 | 2222.4 | 2669.1 |
| 37.5° | 1866.6 | 1866.6 | 1759.1 | 1688.7 | 1743.3 | 1763.1 | 1962.3 | 2182.1 | 2298.3 | 2483.3 | 3021.7 |
| 40° | 2294.4 | 2287.2 | 2129.9 | 1986.0 | 1978.9 | 2017.6 | 2238.2 | 2488.1 | 2616.9 | 2796.4 | 3418.6 |
| 42.5° | 2750.5 | 2739.5 | 2525.2 | 2382.9 | 2359.2 | 2372.6 | 2556.8 | 2865.2 | 2996.4 | 3178.3 | 3845.5 |
| 45° | 3155.3 | 3152.2 | 2956.1 | 2764.8 | 2722.1 | 2764.8 | 2954.5 | 3306.3 | 3400.4 | 3591.8 | 4271.7 |
| 47.5° | 3494.5 | 3494.5 | 3351.4 | 3226.5 | 3204.4 | 3229.7 | 3492.9 | 3795.7 | 3787.0 | 4032.1 | 4686.8 |
| 50° | 3885.1 | 3881.9 | 3745.9 | 3692.2 | 3715.1 | 3750.7 | 4112.8 | 4311.2 | 4187.1 | 4464.6 | 5057.6 |
| 52.5° | 4158.6 | 4177.6 | 4131.0 | 4122.3 | 4239.3 | 4300.9 | 4742.1 | 4815.6 | 4545.2 | 4874.9 | 5335.1 |
| 55° | 4375.3 | 4397.4 | 4451.2 | 4512.0 | 4737.4 | 4818.0 | 5351.7 | 5293.9 | 4844.9 | 5230.7 | 5494.8 |
| 57.5° | 4682.0 | 4650.4 | 4733.4 | 4853.6 | 5218.0 | 5315.3 | 5942.2 | 5745.4 | 5086.0 | 5519.3 | 5512.2 |
| 60° | 5054.4 | 5059.1 | 5073.4 | 5225.2 | 5697.9 | 5822.9 | 6524.1 | 6172.3 | 5241.0 | 5696.4 | 5319.2 |
| 62.5° | 5501.9 | 5509.0 | 5538.2 | 5771.5 | 6342.3 | 6460.1 | 7144.0 | 6521.8 | 5312.1 | 5646.6 | 4821.2 |
| 65° | 5471.0 | 5501.1 | 5827.6 | 6625.3 | 7321.9 | 7438.1 | 7867.4 | 6766.9 | 5204.6 | 5191.2 | 3925.4 |
| 67.5° | 4984.0 | 5033.0 | 5579.4 | 7645.2 | 8798.7 | 8928.4 | 8741.8 | 6815.1 | 4740.5 | 4036.9 | 2560.8 |
| 70° | 4345.2 | 4362.6 | 5019.6 | 8562.3 | 10508.8 | 10640.1 | 9524.5 | 6284.6 | 3597.3 | 2251.7 | 1147.2 |
| 72.5° | 3393.3 | 3397.3 | 4168.1 | 8775.0 | 11437.0 | 11444.1 | 8910.2 | 4665.4 | 1934.6 | 864.9 | 398.5 |
| 75° | 2424.0 | 2400.3 | 2791.7 | 7116.3 | 10062.1 | 10142.8 | 6679.9 | 2188.4 | 739.2 | 408.7 | 198.4 |
| 77.5° | 1299.8 | 1325.9 | 1579.6 | 4220.3 | 6951.1 | 7088.6 | 3644.7 | 630.9 | 376.3 | 278.3 | 131.2 |
| 80° | 401.6 | 423.8 | 647.5 | 1932.3 | 3937.3 | 4020.3 | 1351.2 | 280.7 | 262.5 | 198.4 | 86.2 |
| 82.5° | 126.5 | 131.2 | 302.0 | 812.0 | 1634.2 | 1672.1 | 391.4 | 158.9 | 179.5 | 131.2 | 50.6 |
| 85° | 36.4 | 37.2 | 134.4 | 302.8 | 404.0 | 411.9 | 109.9 | 61.7 | 102.8 | 81.4 | 26.1 |
| 87.5° | 4.0 | 12.6 | 50.6 | 50.6 | 35.6 | 34.8 | 11.9 | 13.4 | 29.3 | 10.3 | 4.7 |
| 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° | 1563.8 | 1563.8 | 1563.8 | 1563.8 | 1563.8 | 1563.8 | 1563.8 | 1563.8 | 1563.8 | 1563.8 | 1563.8 |
| 2.5° | 1567.0 | 1567.8 | 1557.5 | 1540.1 | 1521.1 | 1505.3 | 1485.6 | 1469.7 | 1458.7 | 1455.5 | 1461.1 |
| 5° | 1578.1 | 1572.5 | 1543.3 | 1490.3 | 1427.1 | 1372.5 | 1311.6 | 1263.4 | 1231.8 | 1218.3 | 1223.1 |
| 7.5° | 1594.7 | 1578.9 | 1514.8 | 1410.5 | 1289.5 | 1182.0 | 1072.9 | 988.3 | 934.5 | 907.6 | 911.6 |
| 10° | 1608.9 | 1577.3 | 1467.4 | 1295.0 | 1110.0 | 947.2 | 800.1 | 698.1 | 641.2 | 614.3 | 615.1 |
| 12.5° | 1622.3 | 1576.5 | 1405.7 | 1158.2 | 907.6 | 708.4 | 571.6 | 521.0 | 505.2 | 499.7 | 498.1 |
| 15° | 1647.6 | 1578.9 | 1328.2 | 1001.7 | 706.0 | 535.2 | 485.4 | 484.6 | 487.8 | 486.2 | 485.4 |
| 17.5° | 1682.4 | 1581.2 | 1240.5 | 835.7 | 544.7 | 472.0 | 469.6 | 476.7 | 481.5 | 479.1 | 478.3 |
| 20° | 1727.5 | 1590.7 | 1147.2 | 671.2 | 468.0 | 456.2 | 461.7 | 468.0 | 472.0 | 468.0 | 467.3 |
| 22.5° | 1790.7 | 1607.3 | 1045.2 | 539.2 | 443.5 | 446.7 | 451.4 | 458.6 | 462.5 | 457.0 | 456.2 |
| 25° | 1868.2 | 1633.4 | 944.8 | 468.8 | 431.7 | 435.6 | 442.7 | 450.6 | 455.4 | 449.9 | 449.1 |
| 27.5° | 1968.6 | 1675.3 | 852.3 | 453.0 | 419.8 | 422.2 | 432.5 | 444.3 | 450.6 | 443.5 | 443.5 |
| 30° | 2114.1 | 1744.1 | 772.4 | 460.1 | 412.7 | 407.2 | 421.4 | 438.0 | 445.1 | 438.8 | 438.0 |
| 32.5° | 2307.0 | 1841.3 | 723.4 | 471.2 | 409.5 | 389.8 | 403.2 | 424.6 | 436.4 | 432.5 | 432.5 |
| 35° | 2560.0 | 1989.2 | 704.4 | 483.9 | 407.2 | 371.6 | 381.1 | 404.0 | 424.6 | 428.5 | 428.5 |
| 37.5° | 2866.8 | 2194.7 | 710.0 | 489.4 | 400.1 | 356.6 | 361.3 | 381.1 | 408.0 | 420.6 | 423.8 |
| 40° | 3215.4 | 2434.3 | 741.6 | 483.9 | 392.1 | 343.9 | 344.7 | 359.7 | 383.4 | 402.4 | 408.7 |
| 42.5° | 3575.2 | 2714.2 | 800.1 | 463.3 | 385.0 | 332.8 | 330.5 | 340.8 | 356.6 | 370.0 | 375.5 |
| 45° | 3917.5 | 3002.0 | 857.8 | 434.8 | 376.3 | 321.8 | 316.2 | 320.2 | 323.4 | 328.9 | 332.1 |
| 47.5° | 4216.3 | 3204.4 | 841.2 | 408.7 | 364.5 | 309.1 | 299.6 | 298.1 | 288.6 | 287.8 | 287.0 |
| 50° | 4422.7 | 3248.6 | 747.1 | 382.7 | 347.1 | 294.9 | 279.9 | 270.4 | 253.8 | 245.9 | 246.7 |
| 52.5° | 4488.3 | 3073.9 | 610.4 | 356.6 | 318.6 | 275.9 | 254.6 | 239.6 | 219.0 | 211.9 | 211.1 |
| 55° | 4401.3 | 2731.6 | 487.8 | 324.9 | 279.1 | 250.6 | 226.9 | 207.1 | 190.5 | 181.8 | 181.8 |
| 57.5° | 4188.7 | 2295.9 | 385.8 | 287.8 | 237.2 | 222.2 | 198.4 | 178.7 | 164.4 | 155.8 | 154.2 |
| 60° | 3836.1 | 1823.2 | 305.2 | 243.5 | 202.4 | 191.3 | 166.8 | 154.2 | 141.5 | 131.2 | 128.9 |
| 62.5° | 3300.8 | 1301.3 | 239.6 | 192.9 | 169.2 | 156.5 | 142.3 | 132.8 | 117.8 | 103.6 | 101.2 |
| 65° | 2575.8 | 796.1 | 185.0 | 141.5 | 136.0 | 129.7 | 121.0 | 112.3 | 94.1 | 79.9 | 77.5 |
| 67.5° | 1624.7 | 377.1 | 132.0 | 106.7 | 107.5 | 104.4 | 100.4 | 93.3 | 79.9 | 67.2 | 65.6 |
| 70° | 715.5 | 182.6 | 87.0 | 81.4 | 79.9 | 79.9 | 83.0 | 80.6 | 68.0 | 56.1 | 53.8 |
| 72.5° | 243.5 | 98.0 | 64.8 | 61.7 | 57.7 | 56.9 | 69.6 | 67.2 | 54.6 | 43.5 | 41.1 |
| 75° | 127.3 | 65.6 | 47.4 | 44.3 | 34.8 | 41.9 | 55.3 | 52.2 | 38.7 | 28.5 | 26.1 |
| 77.5° | 83.0 | 46.6 | 32.4 | 28.5 | 19.8 | 27.7 | 41.1 | 36.4 | 22.9 | 14.2 | 12.6 |
| 80° | 52.2 | 30.8 | 19.0 | 13.4 | 9.5 | 15.0 | 22.1 | 15.8 | 8.7 | 3.2 | 2.4 |
| 82.5° | 27.7 | 15.8 | 7.1 | 4.7 | 4.0 | 4.7 | 5.5 | 4.0 | 1.6 | 0.0 | 0.0 |
| 85° | 11.1 | 5.5 | 2.4 | 1.6 | 0.8 | 0.0 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.0 | 0.8 | 0.0 | 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)