

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: P963953

Luminaire Tested: **NVN-SB3B-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3B-722-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11219.6 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

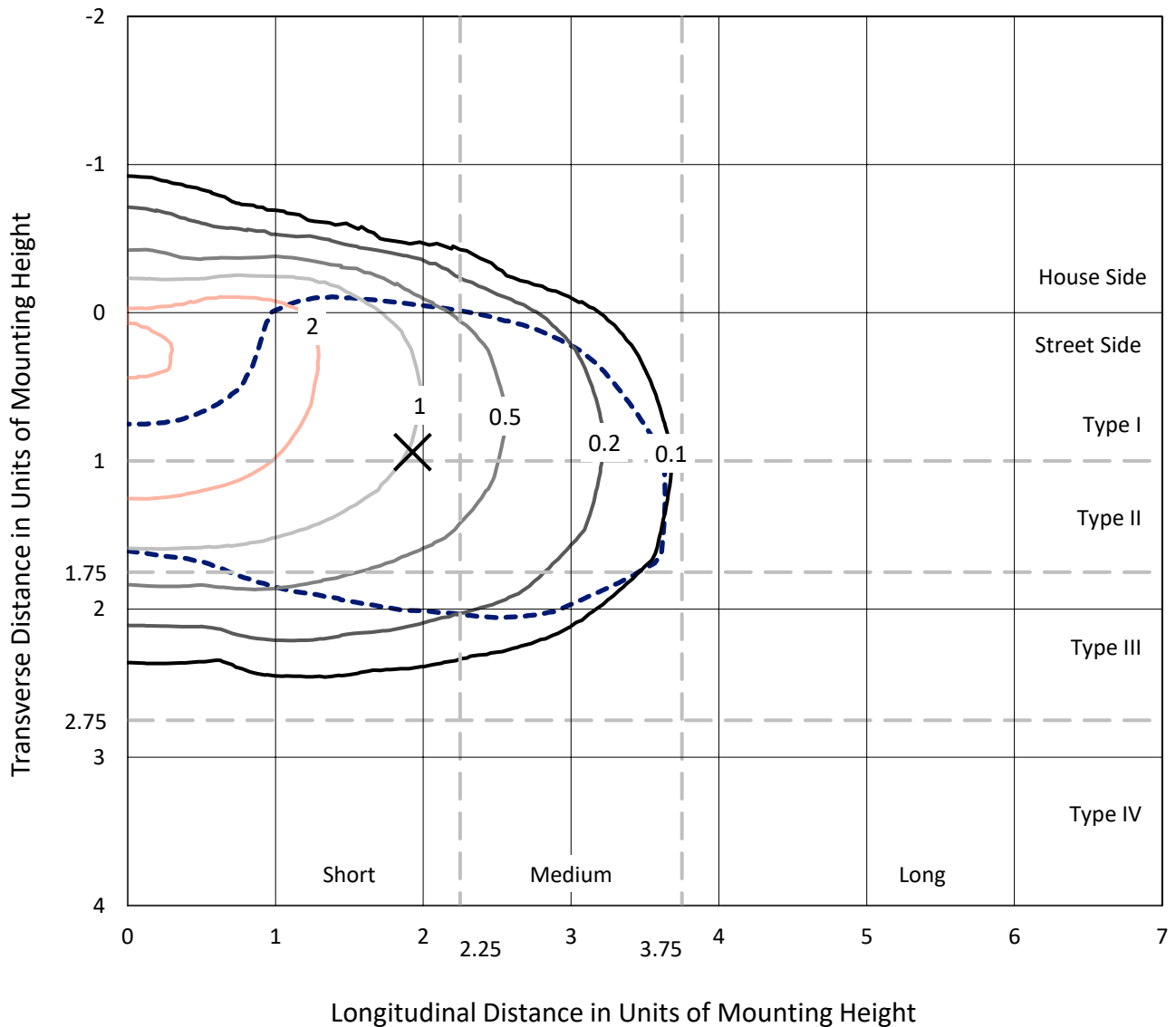
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

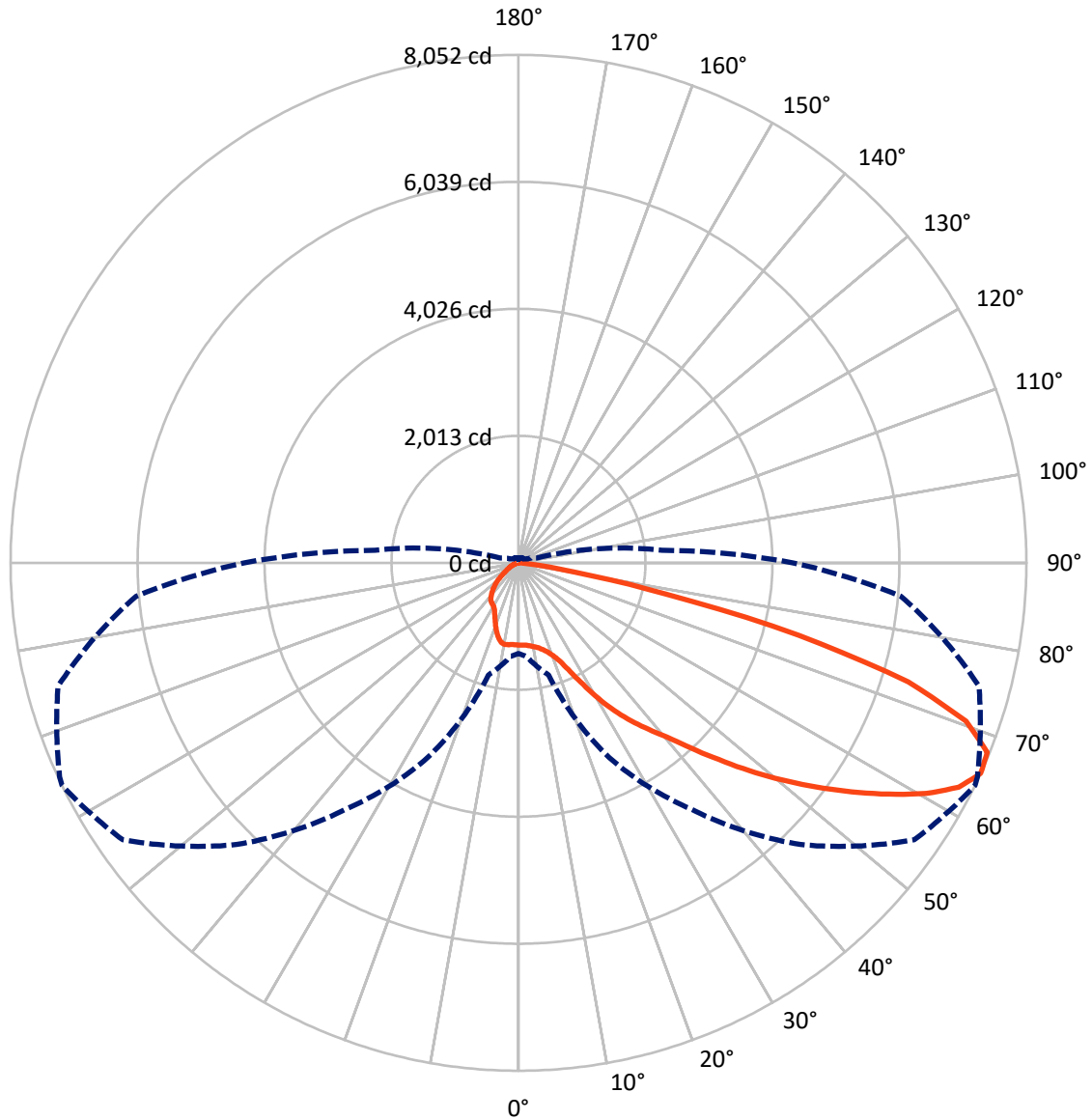
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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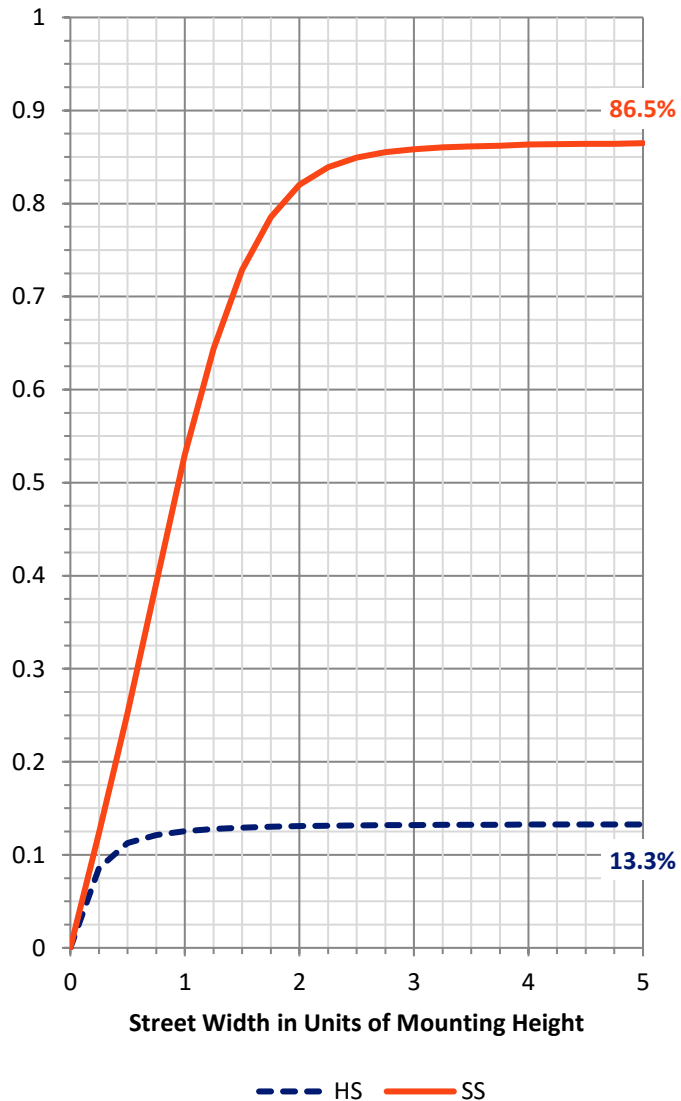
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1500.4 | 0.0 | 1500.4 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 9719.2 | 0.0 | 9719.2 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 11219.6 | 0.0 | 11219.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 120.4 | 1.1 |
| 10°-20° | 326.5 | 2.9 |
| 20°-30° | 618.8 | 5.5 |
| 30°-40° | 1252.1 | 11.2 |
| 40°-50° | 2133.0 | 19.0 |
| 50°-60° | 2900.7 | 25.9 |
| 60°-70° | 2723.9 | 24.3 |
| 70°-80° | 1091.3 | 9.7 |
| 80°-90° | 52.9 | 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° | 11219.6 | 100.0 |
| 0°-180° | 11219.6 | 100.0 |

Coefficient of Utilization



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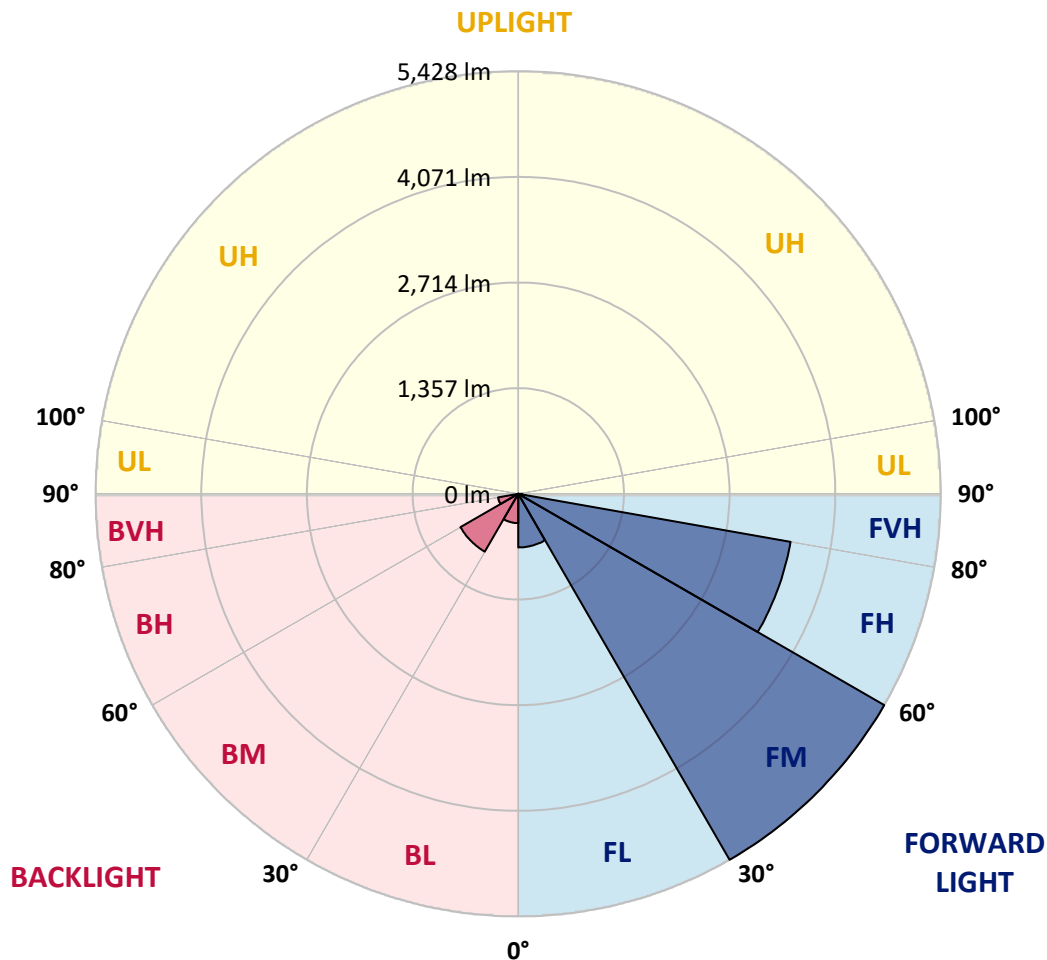
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 689.0 | 6.1 | | | |
| FM (30°-60°) | 5428.0 | 48.4 | | | |
| FH (60°-80°) | 3551.9 | 31.7 | | | G2/5000 |
| FVH (80°-90°) | 50.3 | 0.4 | | | G1/100 |
| BL (0°-30°) | 376.7 | 3.4 | B1/500 | | |
| BM (30°-60°) | 857.8 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 263.3 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.6 | 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 III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 |
| 2.5° | 1300.4 | 1309.4 | 1307.2 | 1304.9 | 1304.2 | 1305.7 | 1306.5 | 1305.7 | 1305.7 | 1305.7 | 1306.5 |
| 5° | 1275.6 | 1283.2 | 1283.2 | 1288.4 | 1295.9 | 1304.9 | 1311.7 | 1313.2 | 1314.8 | 1317.0 | 1316.2 |
| 7.5° | 1228.3 | 1234.3 | 1238.8 | 1256.0 | 1274.9 | 1299.0 | 1319.3 | 1329.7 | 1331.3 | 1339.6 | 1342.5 |
| 10° | 1195.9 | 1203.5 | 1210.9 | 1229.0 | 1256.0 | 1292.2 | 1326.8 | 1352.4 | 1356.1 | 1375.7 | 1384.7 |
| 12.5° | 1194.4 | 1201.9 | 1211.7 | 1231.2 | 1262.8 | 1301.2 | 1343.4 | 1380.2 | 1386.9 | 1415.5 | 1434.3 |
| 15° | 1210.2 | 1219.2 | 1228.3 | 1252.3 | 1286.2 | 1332.8 | 1377.9 | 1423.8 | 1430.6 | 1471.2 | 1491.5 |
| 17.5° | 1242.5 | 1254.6 | 1261.4 | 1285.5 | 1321.5 | 1373.4 | 1432.8 | 1485.4 | 1491.5 | 1538.8 | 1564.5 |
| 20° | 1306.5 | 1320.7 | 1323.0 | 1342.5 | 1377.9 | 1433.6 | 1504.3 | 1569.7 | 1577.3 | 1631.4 | 1660.0 |
| 22.5° | 1438.8 | 1459.2 | 1441.1 | 1450.9 | 1482.5 | 1538.1 | 1614.9 | 1697.6 | 1708.1 | 1769.8 | 1795.4 |
| 25° | 1672.0 | 1700.6 | 1653.9 | 1637.4 | 1651.0 | 1708.9 | 1805.1 | 1909.7 | 1921.7 | 1971.4 | 1984.1 |
| 27.5° | 2130.1 | 2093.3 | 2022.5 | 1953.3 | 1912.6 | 1945.8 | 2054.1 | 2183.5 | 2198.5 | 2246.6 | 2231.6 |
| 30° | 2633.2 | 2600.9 | 2505.4 | 2352.0 | 2255.6 | 2250.4 | 2350.4 | 2494.8 | 2512.2 | 2558.0 | 2512.2 |
| 32.5° | 3137.2 | 3106.4 | 3002.5 | 2813.7 | 2646.8 | 2564.0 | 2633.2 | 2793.4 | 2802.5 | 2831.8 | 2764.1 |
| 35° | 3632.8 | 3601.2 | 3497.4 | 3304.2 | 3098.8 | 2910.8 | 2897.3 | 3077.8 | 3080.7 | 3111.6 | 3010.8 |
| 37.5° | 4131.5 | 4105.2 | 3994.6 | 3805.1 | 3602.8 | 3343.2 | 3217.7 | 3347.0 | 3350.8 | 3380.9 | 3276.3 |
| 40° | 4487.2 | 4498.5 | 4422.6 | 4275.9 | 4102.2 | 3818.6 | 3577.1 | 3633.6 | 3611.0 | 3661.4 | 3599.0 |
| 42.5° | 4792.6 | 4815.2 | 4749.0 | 4675.3 | 4574.5 | 4324.8 | 4022.4 | 4012.7 | 3976.6 | 4003.6 | 3939.0 |
| 45° | 5056.6 | 5075.4 | 5016.0 | 4998.7 | 4996.5 | 4821.2 | 4509.1 | 4450.4 | 4400.0 | 4394.8 | 4317.3 |
| 47.5° | 5153.7 | 5189.8 | 5215.3 | 5273.2 | 5386.1 | 5312.4 | 5012.2 | 4921.2 | 4864.9 | 4823.4 | 4700.9 |
| 50° | 5190.5 | 5228.8 | 5316.2 | 5484.6 | 5751.6 | 5783.2 | 5513.2 | 5410.9 | 5341.7 | 5266.4 | 5085.9 |
| 52.5° | 5140.9 | 5209.4 | 5326.6 | 5610.2 | 5997.6 | 6160.8 | 5993.8 | 5904.3 | 5825.3 | 5702.7 | 5435.0 |
| 55° | 4848.2 | 4916.7 | 5156.7 | 5608.7 | 6120.2 | 6425.5 | 6448.1 | 6408.2 | 6319.4 | 6126.2 | 5717.0 |
| 57.5° | 4231.5 | 4333.1 | 4713.0 | 5417.6 | 6117.9 | 6653.4 | 6893.3 | 6921.9 | 6822.6 | 6545.9 | 5938.8 |
| 60° | 3377.1 | 3514.7 | 3978.0 | 4994.2 | 5929.1 | 6776.8 | 7283.8 | 7426.6 | 7321.4 | 6959.5 | 6118.6 |
| 62.5° | 2356.5 | 2515.9 | 2954.4 | 4330.8 | 5497.4 | 6688.0 | 7568.8 | 7832.7 | 7753.1 | 7329.6 | 6187.8 |
| 65° | 1437.4 | 1488.5 | 1842.0 | 3407.9 | 4763.3 | 6316.5 | 7656.7 | 8052.4 | 8026.1 | 7556.0 | 6085.5 |
| 67.5° | 957.5 | 1000.3 | 1101.9 | 2336.9 | 3697.5 | 5574.2 | 7446.2 | 8014.1 | 8021.5 | 7519.1 | 5711.0 |
| 70° | 576.9 | 613.8 | 680.0 | 1359.1 | 2396.3 | 4412.0 | 6794.1 | 7525.1 | 7568.8 | 7026.5 | 5001.0 |
| 72.5° | 237.7 | 262.5 | 322.7 | 616.0 | 1241.1 | 2800.2 | 5410.2 | 6460.9 | 6562.5 | 5908.1 | 3838.2 |
| 75° | 134.6 | 147.4 | 189.5 | 309.1 | 538.5 | 1304.9 | 3277.0 | 4586.6 | 4736.2 | 4072.1 | 2309.0 |
| 77.5° | 89.5 | 95.5 | 122.6 | 200.1 | 303.1 | 445.3 | 1400.5 | 2389.6 | 2675.4 | 2224.0 | 999.6 |
| 80° | 60.2 | 65.4 | 84.3 | 133.9 | 197.1 | 191.1 | 446.0 | 885.3 | 1089.1 | 764.1 | 243.6 |
| 82.5° | 40.6 | 41.4 | 60.2 | 88.0 | 124.8 | 92.6 | 131.6 | 275.3 | 345.9 | 221.1 | 92.6 |
| 85° | 23.3 | 22.5 | 44.4 | 51.1 | 55.7 | 38.3 | 39.9 | 82.7 | 108.3 | 93.3 | 52.7 |
| 87.5° | 3.0 | 4.5 | 17.3 | 13.5 | 7.5 | 8.3 | 8.3 | 14.2 | 21.0 | 22.5 | 11.3 |
| 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° | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 | 1304.9 |
| 2.5° | 1306.5 | 1305.7 | 1303.5 | 1301.2 | 1295.9 | 1292.9 | 1294.5 | 1292.9 | 1292.2 | 1292.9 | 1295.9 |
| 5° | 1316.2 | 1313.9 | 1308.0 | 1300.4 | 1290.0 | 1277.1 | 1268.8 | 1256.9 | 1245.6 | 1238.8 | 1240.2 |
| 7.5° | 1342.5 | 1340.3 | 1332.1 | 1311.0 | 1277.1 | 1223.7 | 1174.9 | 1132.0 | 1099.6 | 1080.9 | 1081.6 |
| 10° | 1384.7 | 1380.9 | 1368.2 | 1321.5 | 1232.8 | 1116.2 | 1019.2 | 938.7 | 886.0 | 861.2 | 859.0 |
| 12.5° | 1434.3 | 1429.8 | 1407.2 | 1311.7 | 1148.5 | 966.5 | 832.6 | 743.1 | 694.2 | 672.4 | 670.1 |
| 15° | 1493.0 | 1487.0 | 1442.6 | 1265.1 | 1025.9 | 801.0 | 678.4 | 611.5 | 579.9 | 560.4 | 561.1 |
| 17.5° | 1566.0 | 1555.4 | 1468.9 | 1195.1 | 892.8 | 674.7 | 583.6 | 533.3 | 505.4 | 486.7 | 485.1 |
| 20° | 1660.7 | 1643.4 | 1489.9 | 1111.6 | 770.2 | 594.9 | 519.8 | 477.6 | 456.5 | 440.0 | 437.0 |
| 22.5° | 1793.1 | 1768.3 | 1515.6 | 1021.4 | 683.7 | 540.1 | 472.3 | 441.5 | 424.2 | 405.4 | 402.4 |
| 25° | 1957.0 | 1927.7 | 1547.1 | 937.9 | 624.2 | 492.6 | 437.8 | 412.2 | 391.9 | 370.0 | 367.8 |
| 27.5° | 2186.4 | 2133.8 | 1584.8 | 869.5 | 573.2 | 452.0 | 406.1 | 377.6 | 354.2 | 336.2 | 332.4 |
| 30° | 2442.2 | 2355.7 | 1617.9 | 828.1 | 526.5 | 414.4 | 364.8 | 336.2 | 314.4 | 301.7 | 299.4 |
| 32.5° | 2684.4 | 2567.0 | 1639.7 | 810.1 | 484.4 | 371.6 | 319.7 | 288.8 | 272.2 | 268.5 | 270.8 |
| 35° | 2913.0 | 2758.1 | 1637.4 | 792.7 | 446.8 | 328.7 | 275.3 | 243.6 | 230.9 | 233.2 | 233.2 |
| 37.5° | 3176.3 | 2961.9 | 1621.7 | 765.7 | 415.9 | 289.6 | 236.9 | 209.1 | 197.8 | 198.5 | 201.6 |
| 40° | 3482.4 | 3197.4 | 1611.8 | 714.5 | 382.1 | 253.5 | 205.3 | 182.8 | 174.5 | 171.5 | 170.8 |
| 42.5° | 3808.8 | 3425.2 | 1613.4 | 656.6 | 340.0 | 221.1 | 183.5 | 164.7 | 157.2 | 155.0 | 154.2 |
| 45° | 4136.8 | 3642.6 | 1615.6 | 596.4 | 295.6 | 196.3 | 167.7 | 151.9 | 147.4 | 144.4 | 144.4 |
| 47.5° | 4445.1 | 3827.7 | 1573.5 | 531.8 | 251.9 | 177.5 | 155.0 | 144.4 | 140.6 | 136.9 | 136.9 |
| 50° | 4732.4 | 3951.0 | 1471.9 | 456.5 | 217.4 | 162.5 | 145.1 | 137.7 | 133.9 | 130.1 | 130.1 |
| 52.5° | 4955.9 | 3970.5 | 1304.2 | 379.0 | 193.3 | 151.2 | 139.2 | 132.3 | 127.8 | 124.1 | 123.3 |
| 55° | 5055.1 | 3848.0 | 1065.8 | 306.9 | 174.5 | 141.4 | 133.1 | 126.4 | 121.1 | 117.4 | 116.5 |
| 57.5° | 5029.6 | 3590.0 | 831.1 | 246.7 | 156.4 | 131.6 | 125.6 | 121.1 | 115.1 | 109.1 | 108.3 |
| 60° | 4903.9 | 3244.7 | 626.6 | 205.3 | 139.9 | 121.1 | 117.4 | 113.6 | 105.3 | 96.2 | 94.8 |
| 62.5° | 4686.6 | 2810.8 | 446.8 | 169.9 | 121.9 | 109.1 | 107.5 | 104.6 | 92.6 | 76.0 | 74.4 |
| 65° | 4354.1 | 2283.5 | 300.8 | 141.4 | 104.6 | 95.5 | 96.2 | 91.0 | 75.2 | 56.4 | 54.9 |
| 67.5° | 3868.2 | 1669.7 | 192.6 | 115.8 | 87.2 | 79.7 | 80.5 | 77.5 | 64.0 | 48.2 | 45.9 |
| 70° | 3249.2 | 1105.7 | 125.6 | 88.0 | 69.9 | 61.7 | 66.2 | 66.9 | 54.1 | 39.2 | 37.6 |
| 72.5° | 2382.0 | 652.8 | 88.0 | 65.4 | 51.1 | 42.8 | 54.1 | 55.7 | 43.7 | 29.3 | 27.9 |
| 75° | 1357.6 | 309.9 | 66.2 | 47.4 | 31.6 | 30.1 | 42.1 | 42.1 | 30.1 | 19.6 | 18.0 |
| 77.5° | 570.1 | 129.4 | 46.6 | 30.9 | 18.0 | 17.3 | 28.6 | 26.3 | 15.1 | 9.0 | 9.0 |
| 80° | 164.7 | 57.9 | 24.8 | 15.1 | 7.5 | 6.8 | 11.3 | 8.3 | 3.8 | 1.5 | 1.5 |
| 82.5° | 64.7 | 25.5 | 9.7 | 6.0 | 3.0 | 3.0 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 38.3 | 10.6 | 4.5 | 2.3 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 9.7 | 2.3 | 1.5 | 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)