

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: P882041

Luminaire Tested: **NVN-SB1D-722-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1D-722-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8022 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

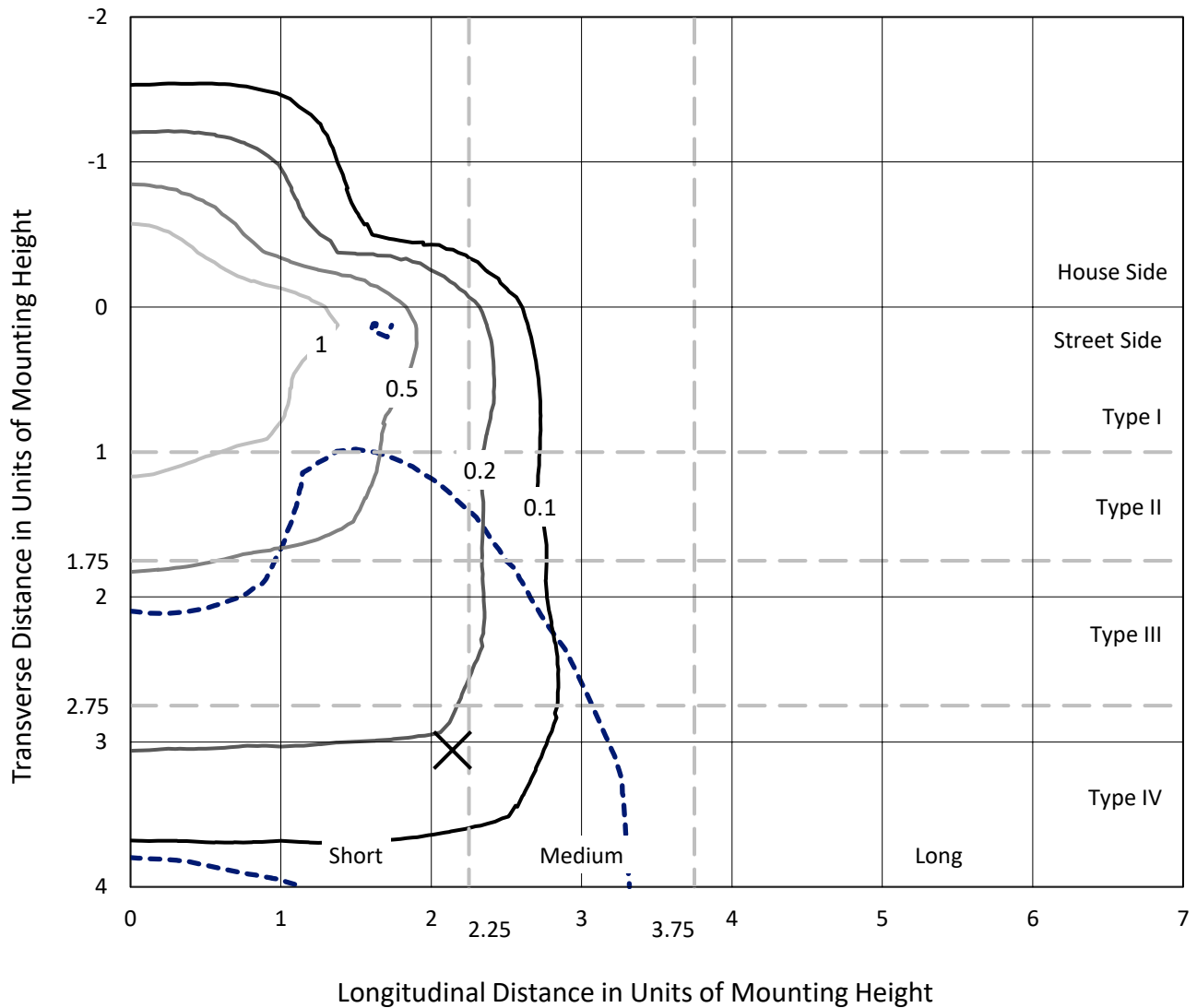
Input Watts (W): 79.6
Input Voltage (V): 120.0
Input Current (Ain): 0.638
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.673
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

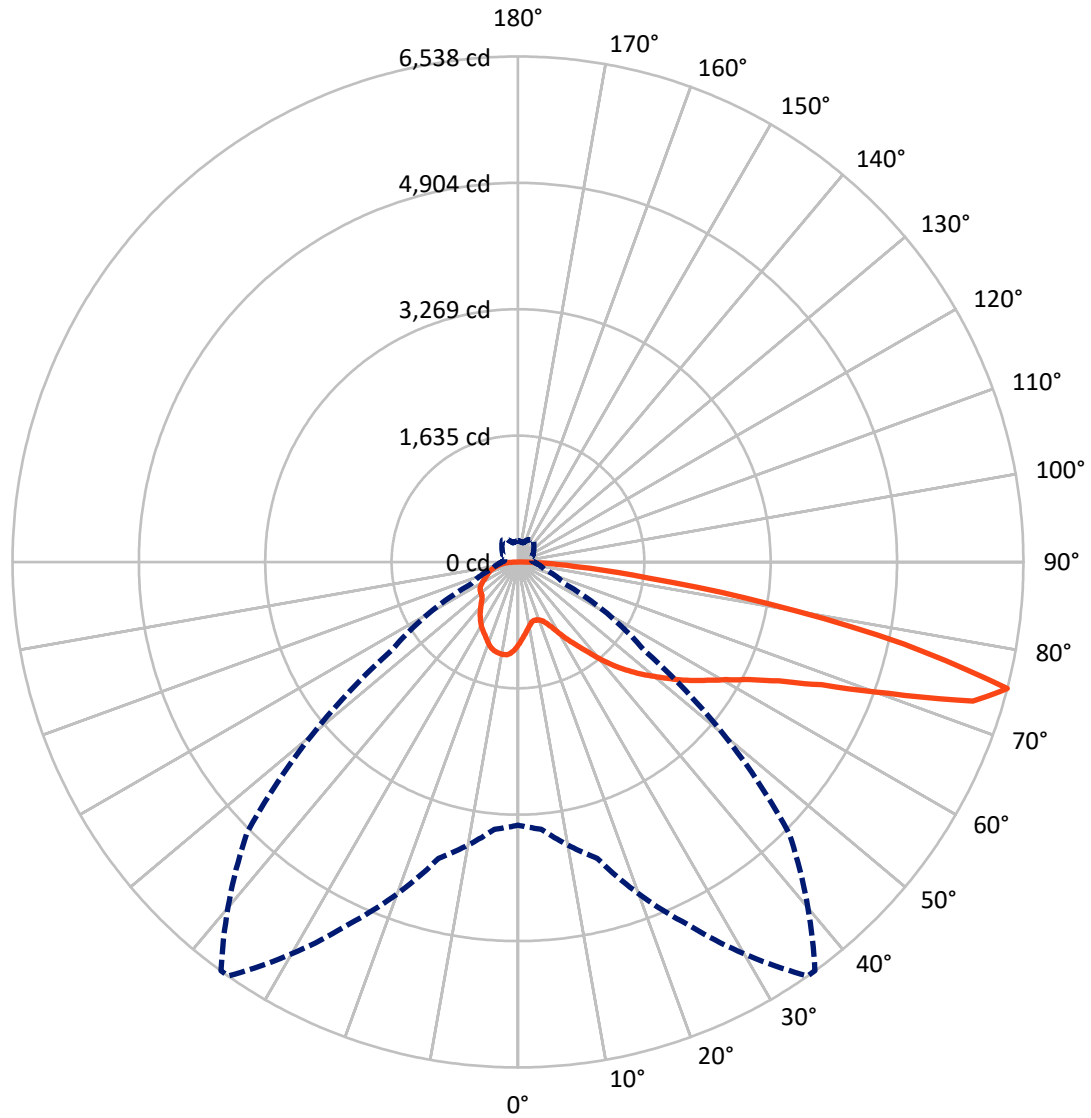
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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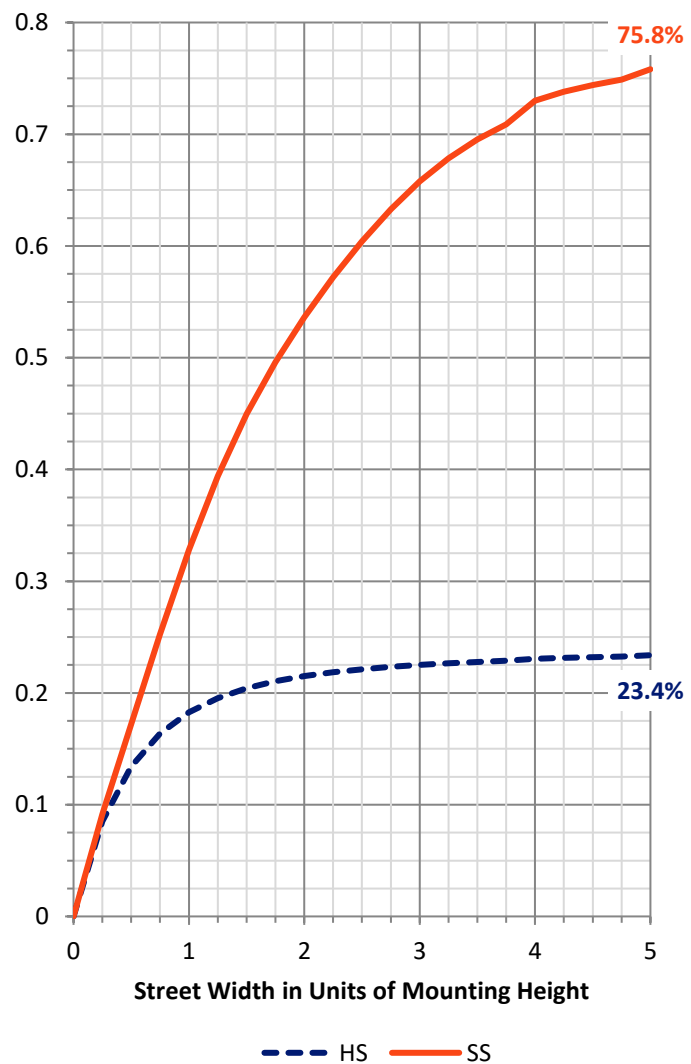
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1909.0 | 0.0 | 1909.0 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 6113.0 | 0.0 | 6113.0 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 8022.0 | 0.0 | 8022.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 101.2 | 1.3 |
| 10°-20° | 291.9 | 3.6 |
| 20°-30° | 490.2 | 6.1 |
| 30°-40° | 761.9 | 9.5 |
| 40°-50° | 1130.9 | 14.1 |
| 50°-60° | 1561.2 | 19.5 |
| 60°-70° | 1894.1 | 23.6 |
| 70°-80° | 1565.3 | 19.5 |
| 80°-90° | 225.1 | 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° | 8022.0 | 100.0 |
| 0°-180° | 8022.0 | 100.0 |

Coefficient of Utilization



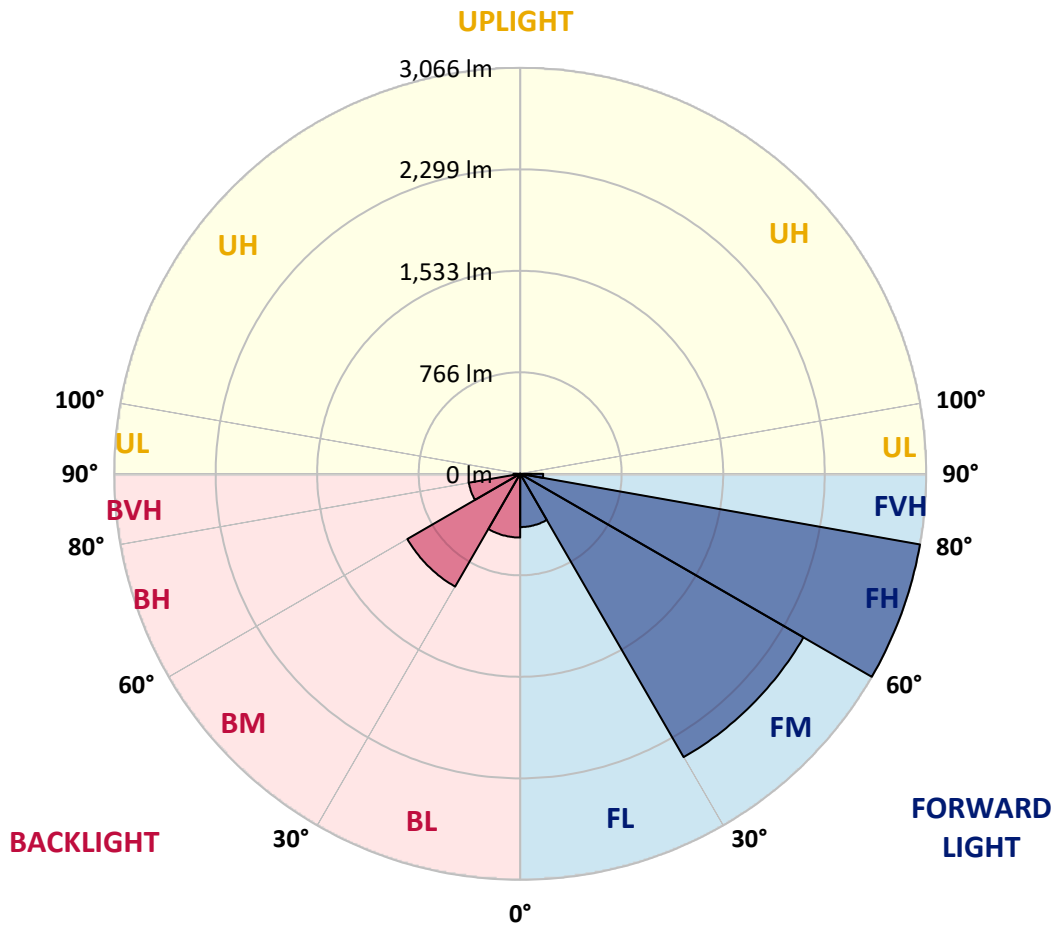
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 402.3 | 5.0 | | | |
| FM (30°-60°) | 2470.3 | 30.8 | | | |
| FH (60°-80°) | 3065.9 | 38.2 | | | G2/5000 |
| FVH (80°-90°) | 174.4 | 2.2 | | | G2/225 |
| BL (0°-30°) | 481.1 | 6.0 | B1/500 | | |
| BM (30°-60°) | 983.7 | 12.3 | B1/1000 | | |
| BH (60°-80°) | 393.6 | 4.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 50.7 | 0.6 | | | G1/100 |
| 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° | 35° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1069.0 | 1069.0 | 1069.0 | 1069.0 | 1069.0 | 1069.0 | 1069.0 | 1069.0 | 1069.0 | 1069.0 | 1069.0 |
| 2.5° | 985.7 | 991.8 | 994.4 | 993.1 | 999.6 | 998.7 | 1007.8 | 1019.1 | 1034.7 | 1049.9 | 1072.0 |
| 5° | 909.8 | 916.3 | 922.0 | 927.2 | 939.8 | 943.7 | 958.0 | 979.7 | 1008.3 | 1037.3 | 1073.8 |
| 7.5° | 839.1 | 844.8 | 853.5 | 863.0 | 884.2 | 888.1 | 912.0 | 945.8 | 985.7 | 1028.2 | 1078.5 |
| 10° | 781.5 | 787.1 | 796.2 | 807.1 | 833.5 | 838.3 | 868.6 | 913.7 | 965.8 | 1019.5 | 1083.7 |
| 12.5° | 756.7 | 758.5 | 763.7 | 774.5 | 797.5 | 800.5 | 833.9 | 885.5 | 946.3 | 1013.0 | 1091.5 |
| 15° | 755.4 | 758.9 | 759.3 | 765.0 | 784.1 | 785.4 | 816.2 | 867.3 | 934.1 | 1011.7 | 1103.2 |
| 17.5° | 768.5 | 771.1 | 767.2 | 770.6 | 786.7 | 788.8 | 813.1 | 858.7 | 930.2 | 1017.4 | 1123.2 |
| 20° | 803.1 | 805.3 | 793.6 | 788.8 | 800.5 | 802.3 | 826.1 | 864.3 | 934.1 | 1029.1 | 1150.5 |
| 22.5° | 876.9 | 878.2 | 849.6 | 830.0 | 830.9 | 831.8 | 852.6 | 887.3 | 949.3 | 1050.3 | 1185.2 |
| 25° | 991.8 | 990.9 | 945.4 | 907.7 | 886.0 | 881.2 | 895.1 | 924.6 | 974.9 | 1078.5 | 1229.9 |
| 27.5° | 1126.2 | 1119.7 | 1074.2 | 1017.8 | 970.5 | 963.6 | 960.6 | 973.1 | 1011.3 | 1115.8 | 1284.5 |
| 30° | 1278.0 | 1271.9 | 1222.9 | 1149.2 | 1083.7 | 1072.5 | 1043.8 | 1037.3 | 1065.5 | 1166.6 | 1360.4 |
| 32.5° | 1444.5 | 1440.6 | 1382.1 | 1292.8 | 1205.2 | 1192.1 | 1144.0 | 1126.7 | 1148.8 | 1243.3 | 1466.2 |
| 35° | 1584.2 | 1580.7 | 1532.1 | 1440.2 | 1333.1 | 1317.0 | 1268.0 | 1248.5 | 1259.8 | 1341.8 | 1604.6 |
| 37.5° | 1710.4 | 1708.6 | 1667.0 | 1594.6 | 1484.0 | 1464.5 | 1409.4 | 1402.9 | 1400.7 | 1471.4 | 1772.4 |
| 40° | 1827.5 | 1823.1 | 1779.8 | 1741.6 | 1659.6 | 1641.9 | 1593.3 | 1587.6 | 1571.2 | 1631.0 | 1962.3 |
| 42.5° | 1957.1 | 1945.9 | 1883.0 | 1865.2 | 1843.1 | 1828.3 | 1799.3 | 1800.1 | 1763.7 | 1811.0 | 2163.6 |
| 45° | 2062.9 | 2056.4 | 1991.8 | 1981.4 | 2005.3 | 1999.2 | 2024.4 | 2030.9 | 1960.2 | 1999.6 | 2372.6 |
| 47.5° | 2176.6 | 2170.5 | 2115.9 | 2108.5 | 2173.1 | 2174.8 | 2263.7 | 2265.9 | 2151.8 | 2195.6 | 2582.0 |
| 50° | 2316.6 | 2308.0 | 2253.8 | 2262.9 | 2335.3 | 2341.8 | 2504.4 | 2489.7 | 2328.4 | 2394.7 | 2789.8 |
| 52.5° | 2409.0 | 2414.2 | 2402.5 | 2417.3 | 2516.1 | 2522.2 | 2741.2 | 2703.5 | 2503.1 | 2591.2 | 2993.6 |
| 55° | 2477.1 | 2487.5 | 2523.9 | 2557.8 | 2706.9 | 2713.0 | 2964.5 | 2906.9 | 2648.0 | 2773.3 | 3185.3 |
| 57.5° | 2564.7 | 2550.0 | 2618.0 | 2684.0 | 2888.2 | 2904.3 | 3181.8 | 3102.9 | 2776.3 | 2930.3 | 3316.7 |
| 60° | 2690.5 | 2680.1 | 2733.0 | 2830.5 | 3091.2 | 3116.8 | 3411.6 | 3279.4 | 2870.4 | 3054.7 | 3342.3 |
| 62.5° | 2945.5 | 2919.4 | 2927.7 | 3014.0 | 3347.0 | 3380.9 | 3671.0 | 3433.3 | 2917.3 | 3103.3 | 3205.2 |
| 65° | 3326.6 | 3282.0 | 3240.3 | 3300.2 | 3707.4 | 3740.8 | 3963.7 | 3554.3 | 2899.9 | 3009.2 | 2841.4 |
| 67.5° | 3806.7 | 3762.5 | 3711.3 | 3767.7 | 4238.2 | 4264.7 | 4324.9 | 3622.4 | 2763.3 | 2646.7 | 2198.3 |
| 70° | 4202.7 | 4186.2 | 4247.3 | 4479.3 | 5086.0 | 5086.9 | 4788.1 | 3566.0 | 2389.1 | 1876.5 | 1271.9 |
| 72.5° | 4150.2 | 4140.2 | 4462.4 | 5179.7 | 6154.6 | 6131.6 | 5226.5 | 3139.3 | 1609.3 | 846.5 | 476.6 |
| 75° | 3404.7 | 3469.3 | 3968.5 | 5167.1 | 6538.4 | 6535.3 | 4958.1 | 1995.7 | 665.7 | 350.8 | 246.3 |
| 77.5° | 1825.7 | 1928.1 | 2576.4 | 3815.0 | 5104.2 | 5181.0 | 3485.8 | 698.2 | 285.8 | 224.6 | 170.4 |
| 80° | 595.4 | 684.8 | 1026.9 | 1942.4 | 3316.7 | 3302.4 | 1494.0 | 274.1 | 195.6 | 159.2 | 118.0 |
| 82.5° | 252.8 | 263.2 | 458.8 | 917.2 | 1702.1 | 1675.7 | 475.7 | 157.4 | 137.5 | 108.9 | 72.9 |
| 85° | 98.9 | 110.6 | 202.5 | 424.1 | 737.2 | 721.2 | 171.7 | 78.1 | 88.0 | 71.1 | 43.4 |
| 87.5° | 32.5 | 39.5 | 72.4 | 145.3 | 229.4 | 221.2 | 42.1 | 26.9 | 38.2 | 32.5 | 15.6 |
| 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° | 1069.0 | 1069.0 | 1069.0 | 1069.0 | 1069.0 | 1069.0 | 1069.0 | 1069.0 | 1069.0 | 1069.0 | 1069.0 |
| 2.5° | 1078.1 | 1085.0 | 1093.3 | 1105.4 | 1115.8 | 1124.5 | 1133.6 | 1139.2 | 1141.4 | 1147.9 | 1147.5 |
| 5° | 1085.9 | 1101.1 | 1121.5 | 1141.4 | 1160.9 | 1172.6 | 1183.0 | 1188.2 | 1193.0 | 1196.5 | 1197.4 |
| 7.5° | 1098.9 | 1118.4 | 1150.5 | 1176.5 | 1193.0 | 1202.6 | 1209.5 | 1207.8 | 1209.5 | 1210.4 | 1211.7 |
| 10° | 1110.2 | 1137.5 | 1175.7 | 1200.4 | 1213.0 | 1213.4 | 1211.7 | 1205.6 | 1202.6 | 1203.0 | 1203.9 |
| 12.5° | 1123.6 | 1154.0 | 1195.2 | 1216.0 | 1219.5 | 1209.9 | 1202.6 | 1192.1 | 1188.2 | 1186.5 | 1185.6 |
| 15° | 1141.8 | 1176.5 | 1216.4 | 1224.2 | 1215.6 | 1203.4 | 1190.8 | 1173.9 | 1165.3 | 1158.3 | 1160.5 |
| 17.5° | 1164.0 | 1202.1 | 1232.9 | 1227.3 | 1208.6 | 1188.7 | 1168.3 | 1142.7 | 1124.9 | 1117.6 | 1118.0 |
| 20° | 1194.7 | 1229.0 | 1245.5 | 1220.8 | 1192.6 | 1162.2 | 1127.5 | 1096.3 | 1079.8 | 1072.5 | 1071.6 |
| 22.5° | 1232.0 | 1265.0 | 1257.6 | 1209.5 | 1169.6 | 1121.0 | 1077.7 | 1054.7 | 1046.4 | 1041.2 | 1042.1 |
| 25° | 1276.7 | 1304.9 | 1266.3 | 1193.0 | 1131.9 | 1066.4 | 1033.0 | 1025.6 | 1021.7 | 1017.8 | 1017.8 |
| 27.5° | 1334.8 | 1350.0 | 1272.8 | 1168.7 | 1072.9 | 1008.3 | 996.1 | 997.4 | 996.1 | 989.6 | 990.9 |
| 30° | 1411.6 | 1408.5 | 1278.9 | 1129.3 | 1005.2 | 955.8 | 956.7 | 962.3 | 963.2 | 958.8 | 961.0 |
| 32.5° | 1512.6 | 1481.8 | 1281.9 | 1078.1 | 940.6 | 909.8 | 910.7 | 916.8 | 921.1 | 913.7 | 917.2 |
| 35° | 1634.9 | 1567.3 | 1277.1 | 1013.9 | 890.7 | 866.0 | 859.5 | 861.3 | 862.6 | 855.6 | 860.4 |
| 37.5° | 1777.6 | 1663.1 | 1255.9 | 942.8 | 849.6 | 823.1 | 809.2 | 797.5 | 790.6 | 784.1 | 788.4 |
| 40° | 1934.1 | 1767.6 | 1216.9 | 873.4 | 803.6 | 777.6 | 756.7 | 734.6 | 711.2 | 702.5 | 706.4 |
| 42.5° | 2098.1 | 1875.2 | 1169.6 | 807.1 | 750.7 | 729.4 | 707.3 | 675.2 | 640.1 | 622.3 | 624.5 |
| 45° | 2268.1 | 1985.3 | 1123.2 | 741.6 | 696.5 | 687.4 | 661.8 | 623.2 | 585.0 | 562.5 | 560.7 |
| 47.5° | 2434.6 | 2089.4 | 1055.1 | 675.7 | 645.7 | 655.7 | 635.8 | 600.2 | 557.7 | 522.1 | 518.2 |
| 50° | 2593.8 | 2187.0 | 943.7 | 608.9 | 604.5 | 646.2 | 627.1 | 575.9 | 527.3 | 481.8 | 477.9 |
| 52.5° | 2751.6 | 2265.9 | 801.0 | 548.2 | 582.4 | 643.6 | 615.8 | 559.4 | 500.0 | 452.3 | 447.1 |
| 55° | 2885.6 | 2306.7 | 663.5 | 496.1 | 550.3 | 621.4 | 602.4 | 539.9 | 461.4 | 410.7 | 406.3 |
| 57.5° | 2961.9 | 2273.7 | 549.0 | 444.9 | 506.1 | 585.0 | 579.4 | 498.3 | 415.5 | 376.4 | 371.2 |
| 60° | 2929.0 | 2140.1 | 455.3 | 400.3 | 464.0 | 545.6 | 539.5 | 457.1 | 380.3 | 343.5 | 338.3 |
| 62.5° | 2747.3 | 1885.6 | 381.2 | 361.2 | 425.9 | 505.2 | 499.6 | 425.4 | 353.4 | 317.9 | 312.2 |
| 65° | 2381.3 | 1533.9 | 323.5 | 328.7 | 387.3 | 456.6 | 464.9 | 399.0 | 332.2 | 297.5 | 291.9 |
| 67.5° | 1816.2 | 1111.1 | 278.4 | 300.5 | 349.5 | 408.9 | 432.8 | 379.9 | 314.4 | 281.4 | 276.2 |
| 70° | 1035.2 | 631.0 | 240.3 | 273.2 | 316.1 | 364.7 | 408.1 | 364.7 | 295.3 | 268.0 | 264.5 |
| 72.5° | 392.5 | 289.7 | 207.7 | 245.9 | 284.1 | 327.4 | 380.8 | 340.9 | 273.2 | 252.8 | 249.4 |
| 75° | 209.5 | 176.5 | 174.8 | 213.8 | 247.2 | 291.0 | 346.5 | 317.4 | 256.7 | 267.1 | 275.8 |
| 77.5° | 142.7 | 124.9 | 146.1 | 183.0 | 206.9 | 250.7 | 310.1 | 281.9 | 222.5 | 221.6 | 204.3 |
| 80° | 98.9 | 88.5 | 118.8 | 147.4 | 160.0 | 210.8 | 270.6 | 242.0 | 181.3 | 169.1 | 161.8 |
| 82.5° | 59.4 | 57.7 | 88.9 | 110.2 | 113.2 | 162.6 | 224.2 | 203.0 | 148.3 | 129.2 | 130.1 |
| 85° | 32.5 | 34.3 | 56.8 | 64.6 | 65.9 | 113.6 | 175.6 | 157.0 | 114.1 | 95.8 | 96.7 |
| 87.5° | 9.1 | 11.7 | 20.8 | 25.6 | 31.7 | 59.0 | 104.5 | 93.2 | 57.2 | 39.9 | 39.9 |
| 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)