

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: P961477

Luminaire Tested: **NVN-SB2A-750-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2A-750-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7365.7 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

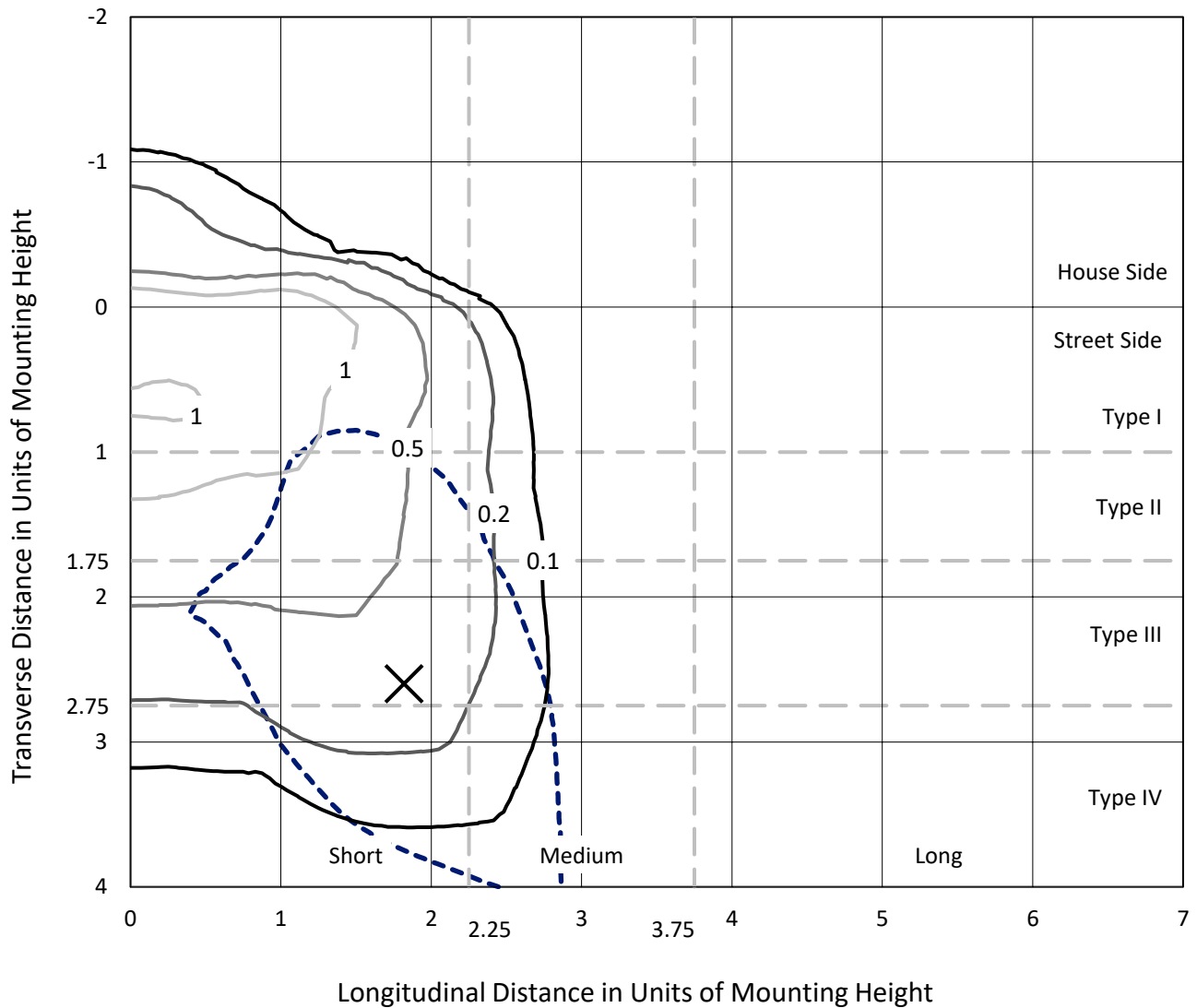
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

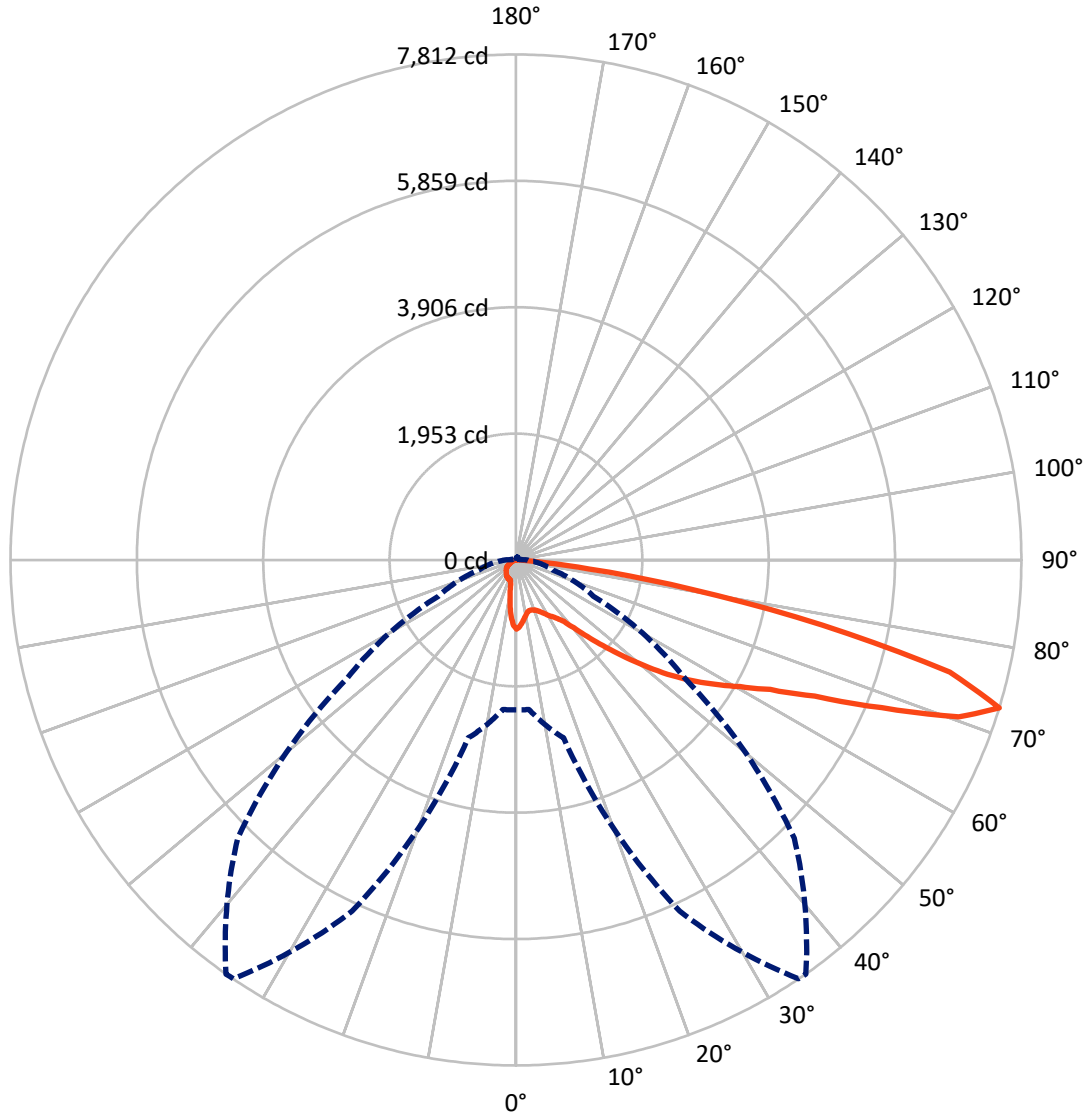
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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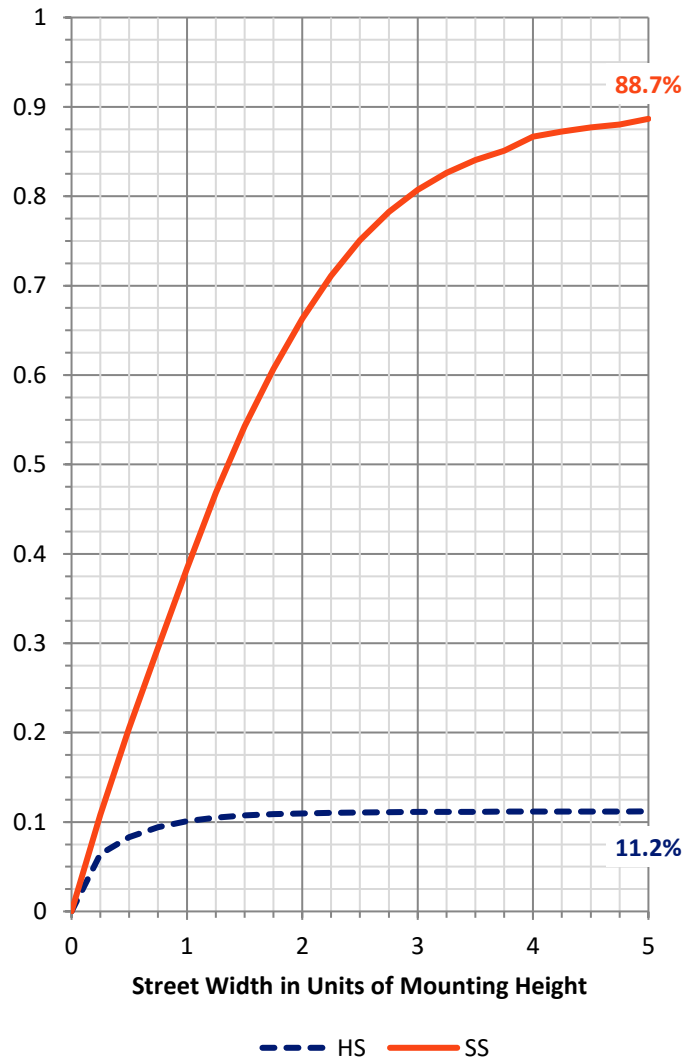
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 829.0 | 0.0 | 829.0 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 6536.7 | 0.0 | 6536.7 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 7365.7 | 0.0 | 7365.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.7 | 1.2 |
| 10°-20° | 205.2 | 2.8 |
| 20°-30° | 333.4 | 4.5 |
| 30°-40° | 556.2 | 7.6 |
| 40°-50° | 1052.4 | 14.3 |
| 50°-60° | 1672.2 | 22.7 |
| 60°-70° | 2068.7 | 28.1 |
| 70°-80° | 1285.9 | 17.5 |
| 80°-90° | 103.9 | 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° | 7365.7 | 100.0 |
| 0°-180° | 7365.7 | 100.0 |

Coefficient of Utilization



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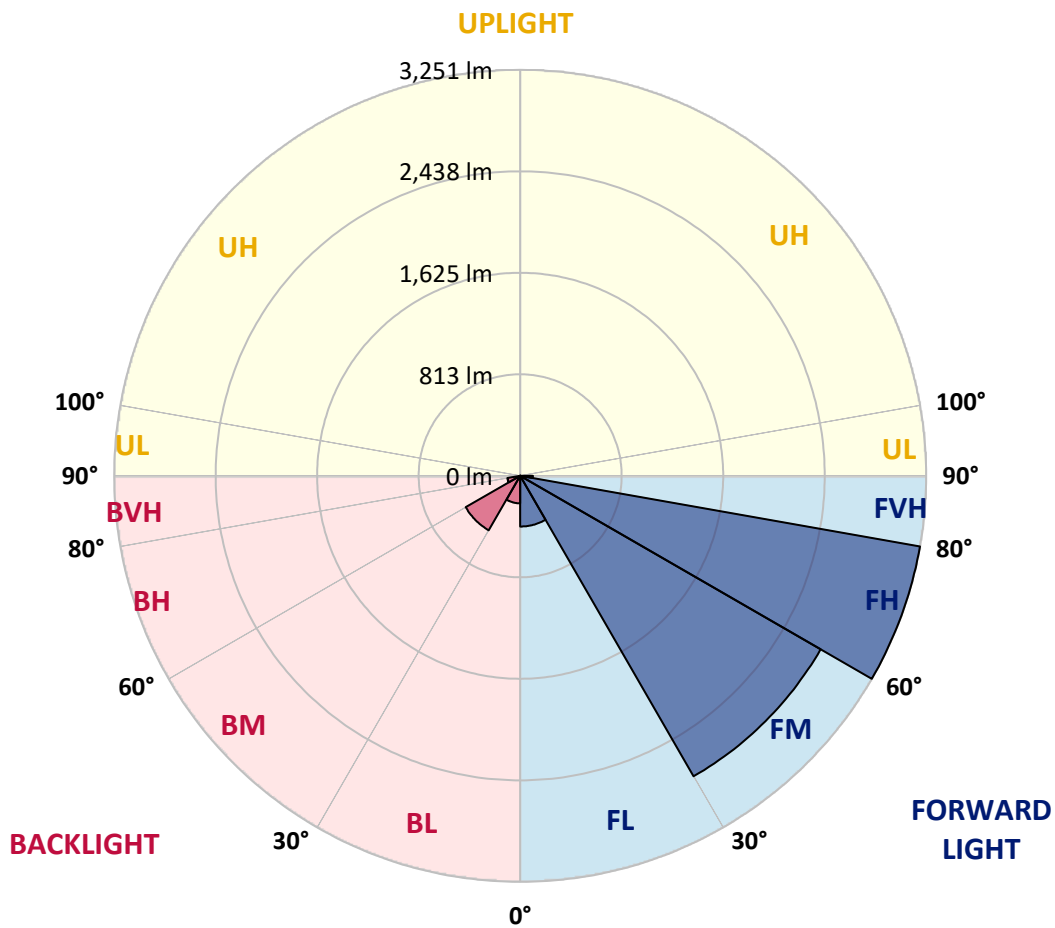
CATALOG NUMBER: NVN-SB2A-750-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 406.0 | 5.5 | | | |
| FM (30°-60°) | 2777.6 | 37.7 | | | |
| FH (60°-80°) | 3250.6 | 44.1 | | | G2/5000 |
| FVH (80°-90°) | 102.5 | 1.4 | | | G2/225 |
| BL (0°-30°) | 220.3 | 3.0 | B1/500 | | |
| BM (30°-60°) | 503.3 | 6.8 | B1/1000 | | |
| BH (60°-80°) | 104.0 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.4 | 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° | 1067.5 | 1067.5 | 1067.5 | 1067.5 | 1067.5 | 1067.5 | 1067.5 | 1067.5 | 1067.5 | 1067.5 | 1067.5 |
| 2.5° | 1020.1 | 1028.7 | 1030.3 | 1033.0 | 1033.0 | 1036.3 | 1041.6 | 1049.2 | 1061.6 | 1068.0 | 1072.4 |
| 5° | 940.1 | 946.6 | 954.7 | 961.2 | 973.6 | 975.3 | 996.3 | 1016.8 | 1045.4 | 1067.0 | 1082.1 |
| 7.5° | 859.8 | 867.3 | 878.1 | 893.7 | 909.9 | 914.8 | 946.6 | 981.1 | 1026.5 | 1067.0 | 1092.3 |
| 10° | 803.1 | 803.6 | 813.3 | 829.0 | 854.8 | 860.8 | 899.6 | 948.8 | 1005.4 | 1060.5 | 1102.1 |
| 12.5° | 771.2 | 775.0 | 779.3 | 791.2 | 816.0 | 819.8 | 861.4 | 919.1 | 984.4 | 1056.8 | 1113.4 |
| 15° | 771.2 | 774.0 | 776.6 | 782.6 | 802.6 | 805.8 | 842.4 | 900.3 | 973.6 | 1058.3 | 1131.8 |
| 17.5° | 779.3 | 783.6 | 781.5 | 788.5 | 809.5 | 811.7 | 844.1 | 894.8 | 973.0 | 1068.6 | 1159.8 |
| 20° | 798.8 | 802.0 | 797.7 | 802.0 | 823.1 | 827.4 | 860.8 | 905.1 | 982.3 | 1086.4 | 1194.9 |
| 22.5° | 829.5 | 831.2 | 820.9 | 824.1 | 845.7 | 851.2 | 890.0 | 934.2 | 1004.4 | 1115.0 | 1241.9 |
| 25° | 868.4 | 871.7 | 856.0 | 859.8 | 880.3 | 886.7 | 931.5 | 978.0 | 1039.5 | 1154.5 | 1301.8 |
| 27.5° | 913.2 | 914.8 | 901.3 | 900.8 | 927.2 | 936.3 | 981.7 | 1031.9 | 1086.4 | 1204.1 | 1377.3 |
| 30° | 964.4 | 969.3 | 956.3 | 954.2 | 987.7 | 995.2 | 1040.0 | 1098.3 | 1155.5 | 1278.6 | 1484.7 |
| 32.5° | 1004.9 | 1008.7 | 1001.1 | 1006.6 | 1040.6 | 1046.5 | 1110.7 | 1192.2 | 1264.0 | 1384.4 | 1631.0 |
| 35° | 1063.2 | 1065.4 | 1048.1 | 1057.8 | 1096.6 | 1111.8 | 1207.3 | 1323.9 | 1400.6 | 1517.1 | 1822.0 |
| 37.5° | 1274.3 | 1274.3 | 1200.8 | 1152.8 | 1190.0 | 1203.6 | 1339.6 | 1489.5 | 1568.9 | 1695.2 | 2062.7 |
| 40° | 1566.2 | 1561.4 | 1454.0 | 1355.8 | 1350.8 | 1377.3 | 1527.9 | 1698.4 | 1786.4 | 1909.0 | 2333.7 |
| 42.5° | 1877.6 | 1870.1 | 1723.8 | 1626.7 | 1610.5 | 1619.6 | 1745.4 | 1955.9 | 2045.5 | 2169.6 | 2625.1 |
| 45° | 2153.9 | 2151.8 | 2017.9 | 1887.3 | 1858.2 | 1887.3 | 2016.9 | 2257.0 | 2321.2 | 2451.9 | 2916.0 |
| 47.5° | 2385.5 | 2385.5 | 2287.8 | 2202.5 | 2187.5 | 2204.7 | 2384.4 | 2591.1 | 2585.2 | 2752.4 | 3199.3 |
| 50° | 2652.1 | 2649.9 | 2557.1 | 2520.4 | 2536.1 | 2560.3 | 2807.6 | 2943.0 | 2858.2 | 3047.7 | 3452.5 |
| 52.5° | 2838.8 | 2851.8 | 2820.0 | 2814.0 | 2893.9 | 2936.0 | 3237.2 | 3287.3 | 3102.8 | 3327.8 | 3641.9 |
| 55° | 2986.7 | 3001.8 | 3038.5 | 3080.1 | 3233.9 | 3288.9 | 3653.2 | 3613.8 | 3307.3 | 3570.7 | 3750.9 |
| 57.5° | 3196.2 | 3174.5 | 3231.2 | 3313.2 | 3562.1 | 3628.4 | 4056.4 | 3922.1 | 3471.9 | 3767.7 | 3762.8 |
| 60° | 3450.4 | 3453.5 | 3463.3 | 3566.9 | 3889.7 | 3975.0 | 4453.6 | 4213.5 | 3577.7 | 3888.5 | 3631.1 |
| 62.5° | 3755.8 | 3760.6 | 3780.6 | 3939.8 | 4329.5 | 4409.9 | 4876.7 | 4452.0 | 3626.2 | 3854.5 | 3291.1 |
| 65° | 3734.7 | 3755.3 | 3978.1 | 4522.7 | 4998.2 | 5077.5 | 5370.6 | 4619.3 | 3552.9 | 3543.6 | 2679.7 |
| 67.5° | 3402.3 | 3435.7 | 3808.7 | 5218.9 | 6006.3 | 6094.9 | 5967.4 | 4652.3 | 3236.0 | 2755.7 | 1748.1 |
| 70° | 2966.2 | 2978.0 | 3426.6 | 5845.0 | 7173.7 | 7263.3 | 6501.8 | 4290.1 | 2455.6 | 1537.1 | 783.1 |
| 72.5° | 2316.4 | 2319.1 | 2845.3 | 5990.1 | 7807.3 | 7812.1 | 6082.5 | 3184.8 | 1320.6 | 590.4 | 272.0 |
| 75° | 1654.8 | 1638.6 | 1905.7 | 4857.9 | 6868.8 | 6923.9 | 4559.9 | 1493.9 | 504.6 | 279.0 | 135.5 |
| 77.5° | 887.2 | 905.1 | 1078.3 | 2881.0 | 4745.0 | 4838.9 | 2488.0 | 430.7 | 256.9 | 189.9 | 89.6 |
| 80° | 274.2 | 289.3 | 442.0 | 1319.1 | 2687.8 | 2744.3 | 922.4 | 191.6 | 179.2 | 135.5 | 58.8 |
| 82.5° | 86.3 | 89.6 | 206.1 | 554.3 | 1115.6 | 1141.4 | 267.1 | 108.4 | 122.5 | 89.6 | 34.5 |
| 85° | 24.8 | 25.3 | 91.7 | 206.7 | 275.8 | 281.2 | 75.0 | 42.1 | 70.1 | 55.6 | 17.8 |
| 87.5° | 2.7 | 8.6 | 34.5 | 34.5 | 24.3 | 23.8 | 8.1 | 9.2 | 20.0 | 7.0 | 3.3 |
| 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° | 1067.5 | 1067.5 | 1067.5 | 1067.5 | 1067.5 | 1067.5 | 1067.5 | 1067.5 | 1067.5 | 1067.5 | 1067.5 |
| 2.5° | 1069.7 | 1070.2 | 1063.2 | 1051.3 | 1038.4 | 1027.6 | 1014.1 | 1003.3 | 995.8 | 993.6 | 997.3 |
| 5° | 1077.3 | 1073.5 | 1053.5 | 1017.3 | 974.2 | 937.0 | 895.3 | 862.4 | 840.8 | 831.7 | 835.0 |
| 7.5° | 1088.6 | 1077.8 | 1034.0 | 962.8 | 880.3 | 806.9 | 732.4 | 674.7 | 638.0 | 619.6 | 622.3 |
| 10° | 1098.3 | 1076.7 | 1001.7 | 884.1 | 757.8 | 646.6 | 546.2 | 476.5 | 437.7 | 419.3 | 419.8 |
| 12.5° | 1107.5 | 1076.1 | 959.6 | 790.7 | 619.6 | 483.6 | 390.2 | 355.7 | 344.9 | 341.1 | 340.0 |
| 15° | 1124.7 | 1077.8 | 906.7 | 683.8 | 482.0 | 365.4 | 331.4 | 330.9 | 333.0 | 331.9 | 331.4 |
| 17.5° | 1148.5 | 1079.4 | 846.8 | 570.5 | 371.9 | 322.2 | 320.6 | 325.4 | 328.7 | 327.1 | 326.6 |
| 20° | 1179.3 | 1085.9 | 783.1 | 458.2 | 319.5 | 311.4 | 315.2 | 319.5 | 322.2 | 319.5 | 319.0 |
| 22.5° | 1222.4 | 1097.3 | 713.5 | 368.1 | 302.8 | 304.9 | 308.2 | 313.0 | 315.7 | 311.9 | 311.4 |
| 25° | 1275.3 | 1115.0 | 644.9 | 320.0 | 294.7 | 297.4 | 302.3 | 307.6 | 310.9 | 307.1 | 306.6 |
| 27.5° | 1343.9 | 1143.6 | 581.8 | 309.2 | 286.6 | 288.2 | 295.2 | 303.3 | 307.6 | 302.8 | 302.8 |
| 30° | 1443.2 | 1190.5 | 527.3 | 314.1 | 281.8 | 278.0 | 287.6 | 299.0 | 303.8 | 299.5 | 299.0 |
| 32.5° | 1574.8 | 1257.0 | 493.8 | 321.6 | 279.5 | 266.1 | 275.2 | 289.9 | 297.9 | 295.2 | 295.2 |
| 35° | 1747.5 | 1357.9 | 480.8 | 330.3 | 278.0 | 253.7 | 260.1 | 275.8 | 289.9 | 292.5 | 292.5 |
| 37.5° | 1956.9 | 1498.2 | 484.6 | 334.0 | 273.1 | 243.4 | 246.6 | 260.1 | 278.5 | 287.1 | 289.3 |
| 40° | 2194.9 | 1661.7 | 506.2 | 330.3 | 267.7 | 234.7 | 235.3 | 245.6 | 261.8 | 274.7 | 279.0 |
| 42.5° | 2440.5 | 1852.8 | 546.2 | 316.3 | 262.8 | 227.2 | 225.6 | 232.6 | 243.4 | 252.6 | 256.4 |
| 45° | 2674.2 | 2049.3 | 585.6 | 296.8 | 256.9 | 219.7 | 215.9 | 218.5 | 220.8 | 224.5 | 226.6 |
| 47.5° | 2878.2 | 2187.5 | 574.2 | 279.0 | 248.8 | 211.0 | 204.6 | 203.5 | 197.0 | 196.5 | 195.9 |
| 50° | 3019.1 | 2217.6 | 510.0 | 261.2 | 237.0 | 201.3 | 191.1 | 184.6 | 173.2 | 167.9 | 168.4 |
| 52.5° | 3063.9 | 2098.4 | 416.7 | 243.4 | 217.5 | 188.4 | 173.7 | 163.5 | 149.5 | 144.6 | 144.1 |
| 55° | 3004.5 | 1864.7 | 333.0 | 221.8 | 190.5 | 171.1 | 154.9 | 141.4 | 130.1 | 124.1 | 124.1 |
| 57.5° | 2859.3 | 1567.3 | 263.4 | 196.5 | 162.0 | 151.7 | 135.5 | 122.0 | 112.2 | 106.3 | 105.3 |
| 60° | 2618.7 | 1244.6 | 208.3 | 166.3 | 138.2 | 130.6 | 113.9 | 105.3 | 96.7 | 89.6 | 87.9 |
| 62.5° | 2253.3 | 888.4 | 163.5 | 131.7 | 115.5 | 106.9 | 97.2 | 90.7 | 80.5 | 70.7 | 69.1 |
| 65° | 1758.4 | 543.5 | 126.3 | 96.7 | 92.9 | 88.6 | 82.6 | 76.7 | 64.3 | 54.5 | 52.9 |
| 67.5° | 1109.0 | 257.5 | 90.1 | 72.9 | 73.4 | 71.2 | 68.6 | 63.7 | 54.5 | 45.9 | 44.8 |
| 70° | 488.4 | 124.6 | 59.3 | 55.6 | 54.5 | 54.5 | 56.7 | 55.0 | 46.4 | 38.3 | 36.7 |
| 72.5° | 166.3 | 66.9 | 44.3 | 42.1 | 39.4 | 38.8 | 47.5 | 45.9 | 37.2 | 29.7 | 28.1 |
| 75° | 86.9 | 44.8 | 32.4 | 30.2 | 23.8 | 28.6 | 37.8 | 35.7 | 26.4 | 19.5 | 17.8 |
| 77.5° | 56.7 | 31.9 | 22.1 | 19.5 | 13.5 | 18.9 | 28.1 | 24.8 | 15.7 | 9.7 | 8.6 |
| 80° | 35.7 | 21.0 | 12.9 | 9.2 | 6.5 | 10.2 | 15.1 | 10.8 | 5.9 | 2.2 | 1.6 |
| 82.5° | 18.9 | 10.8 | 4.8 | 3.3 | 2.7 | 3.3 | 3.8 | 2.7 | 1.1 | 0.0 | 0.0 |
| 85° | 7.6 | 3.8 | 1.6 | 1.1 | 0.5 | 0.0 | 1.1 | 0.5 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.7 | 0.5 | 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)