

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: P960293

Luminaire Tested: **NVN-SB1C-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1C-727-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7218 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

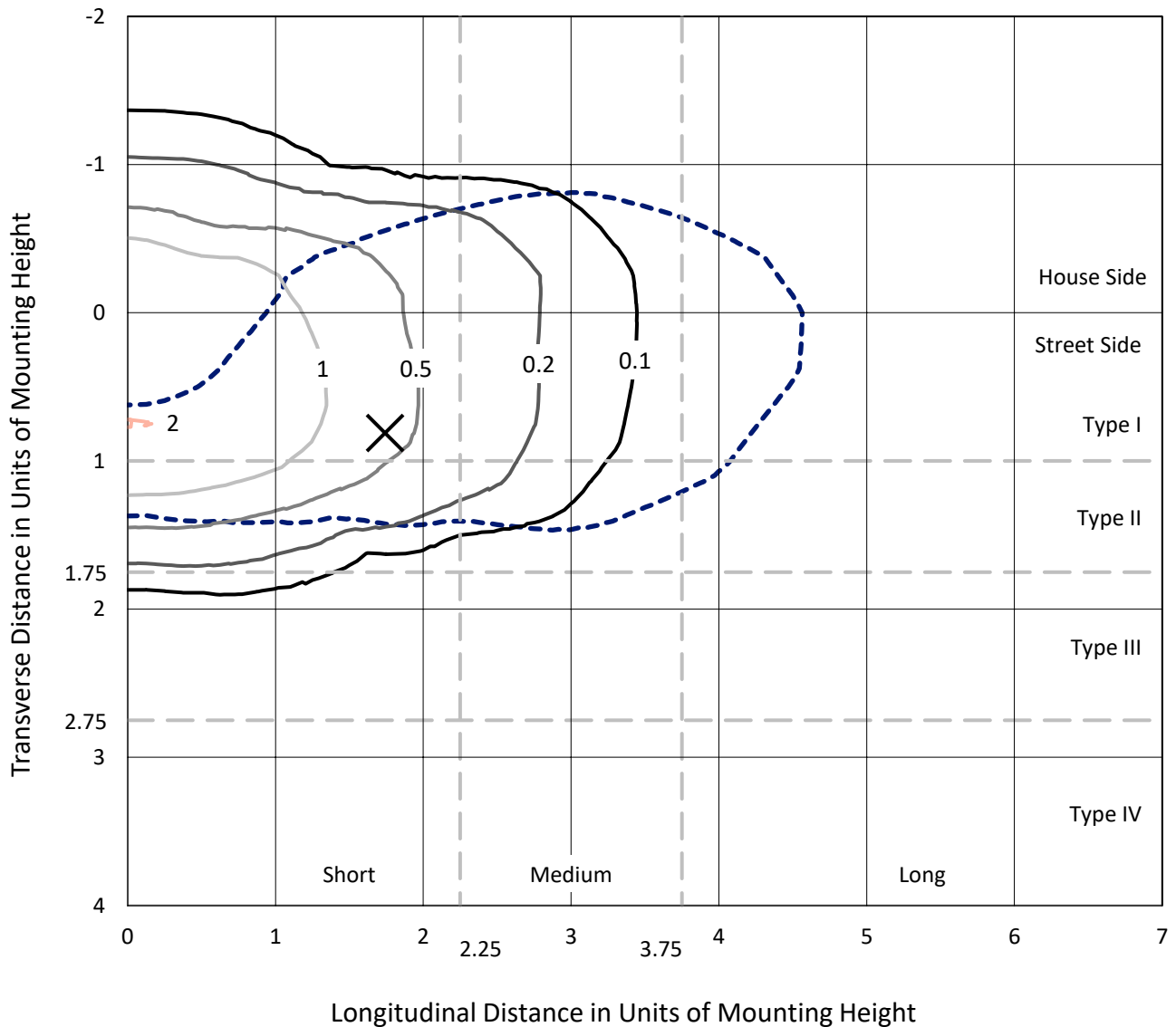
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

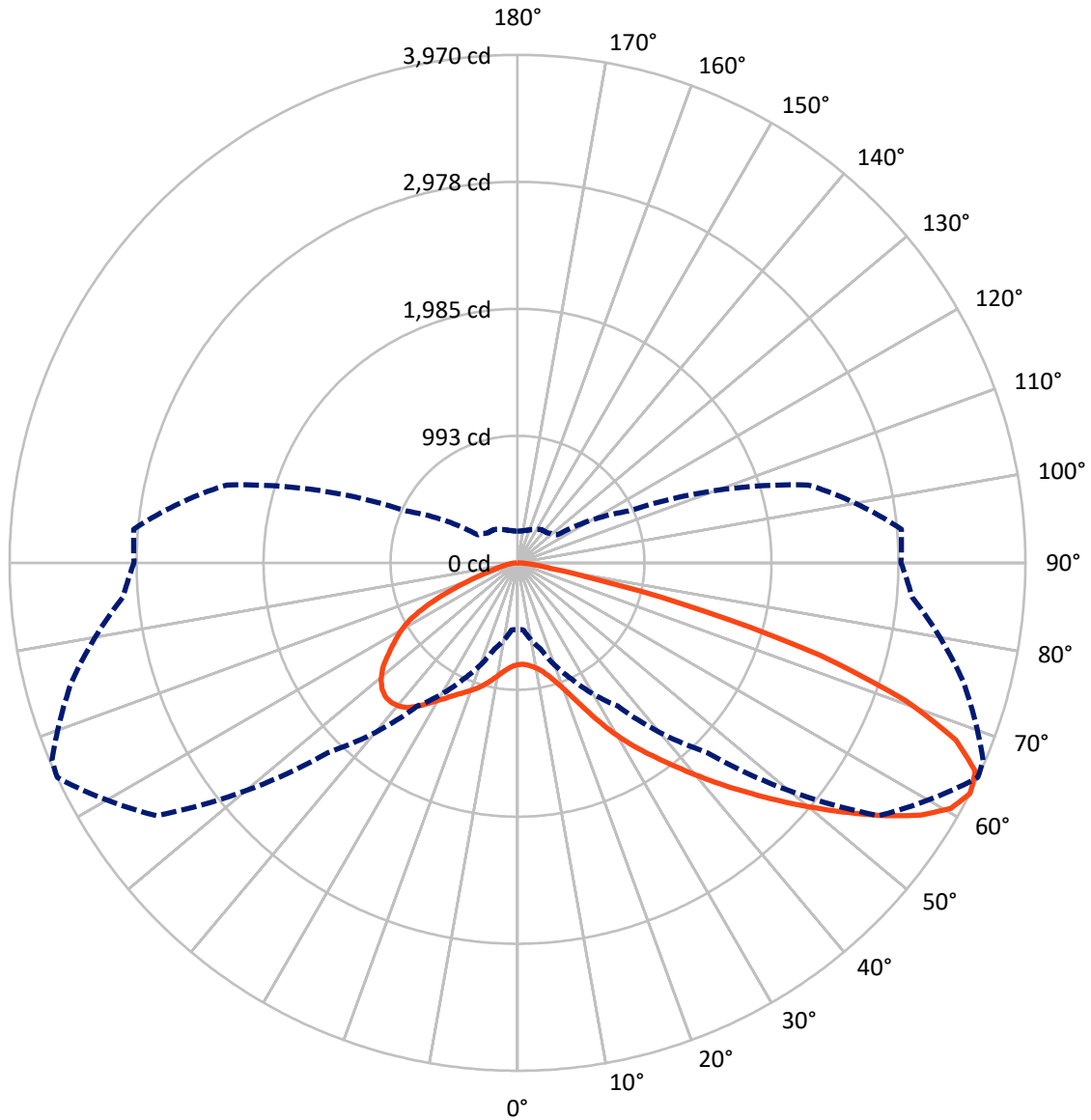
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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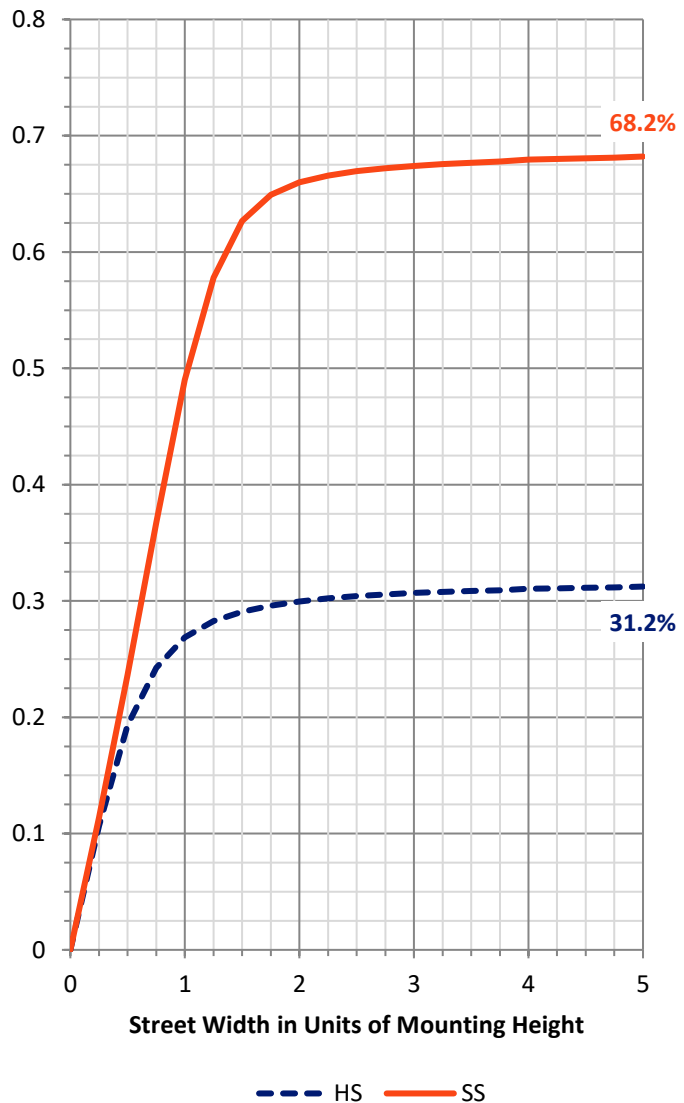
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2277.7 | 0.0 | 2277.7 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 4940.3 | 0.0 | 4940.3 |
| | % Fixture | 68.4 | 0.0 | 68.4 |
| Total | Lumens | 7218.0 | 0.0 | 7218.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.3 | 1.1 |
| 10°-20° | 268.9 | 3.7 |
| 20°-30° | 545.3 | 7.6 |
| 30°-40° | 943.5 | 13.1 |
| 40°-50° | 1427.9 | 19.8 |
| 50°-60° | 1674.1 | 23.2 |
| 60°-70° | 1403.5 | 19.4 |
| 70°-80° | 774.9 | 10.7 |
| 80°-90° | 100.6 | 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° | 7218.0 | 100.0 |
| 0°-180° | 7218.0 | 100.0 |

Coefficient of Utilization



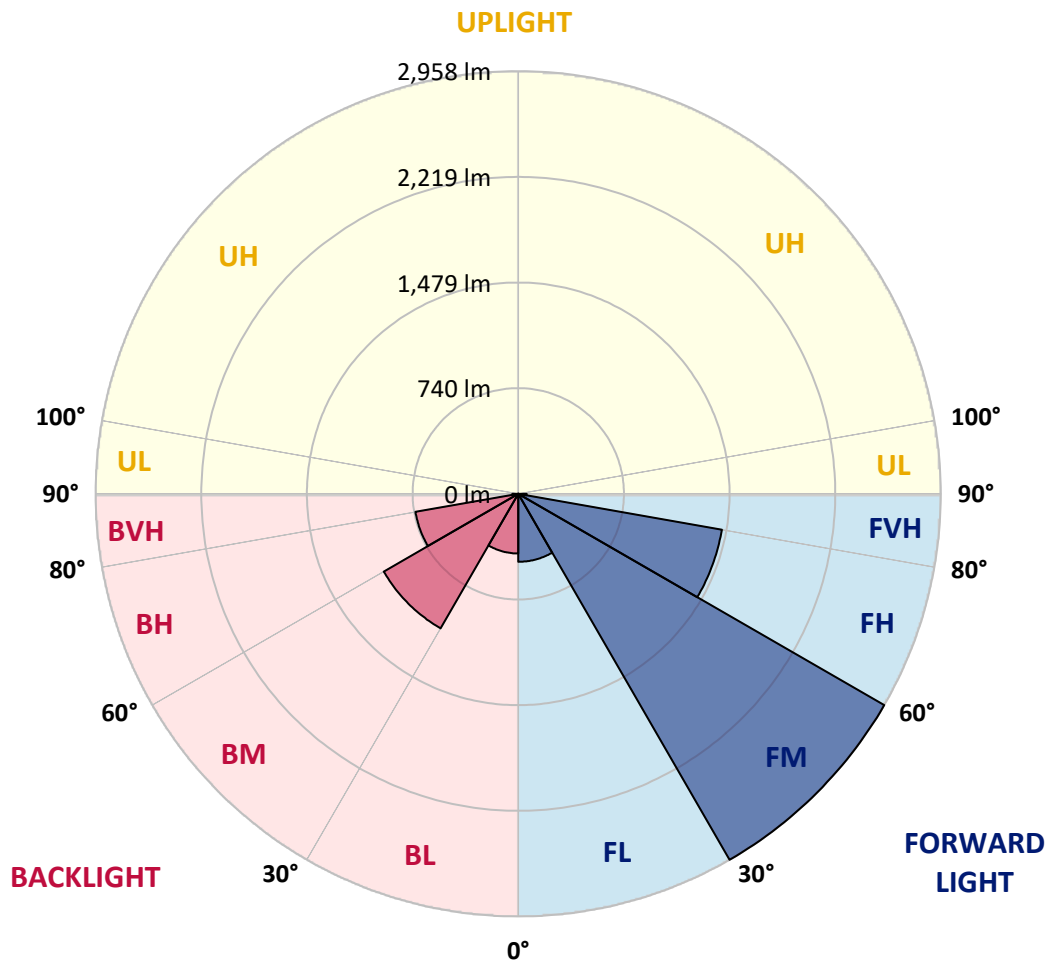
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 475.8 | 6.6 | | | |
| FM (30°-60°) | 2958.2 | 41.0 | | | |
| FH (60°-80°) | 1447.7 | 20.1 | | | G1/1800 |
| FVH (80°-90°) | 58.7 | 0.8 | | | G1/100 |
| BL (0°-30°) | 417.7 | 5.8 | B1/500 | | |
| BM (30°-60°) | 1087.3 | 15.1 | B2/2500 | | |
| BH (60°-80°) | 730.7 | 10.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 42.0 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 795.4 | 795.4 | 795.4 | 795.4 | 795.4 | 795.4 | 795.4 | 795.4 | 795.4 | 795.4 | 795.4 |
| 2.5° | 790.2 | 787.9 | 789.8 | 789.8 | 790.5 | 790.2 | 792.7 | 793.6 | 794.7 | 796.9 | 796.9 |
| 5° | 782.3 | 781.9 | 785.3 | 788.3 | 791.3 | 793.9 | 797.2 | 802.2 | 802.9 | 805.5 | 808.9 |
| 7.5° | 779.7 | 777.5 | 782.7 | 786.4 | 793.6 | 799.9 | 808.9 | 817.1 | 820.5 | 821.6 | 828.0 |
| 10° | 799.9 | 796.1 | 801.0 | 803.3 | 809.2 | 815.6 | 826.2 | 839.2 | 843.0 | 847.5 | 854.5 |
| 12.5° | 834.4 | 830.2 | 837.3 | 840.7 | 846.3 | 852.0 | 859.1 | 871.8 | 873.7 | 881.9 | 888.7 |
| 15° | 881.5 | 876.7 | 881.2 | 885.3 | 894.6 | 899.8 | 907.0 | 919.3 | 919.3 | 925.7 | 930.6 |
| 17.5° | 945.6 | 939.2 | 942.6 | 944.0 | 950.1 | 958.0 | 969.9 | 980.7 | 986.4 | 984.1 | 977.4 |
| 20° | 1041.1 | 1033.2 | 1033.2 | 1025.7 | 1023.5 | 1029.8 | 1045.5 | 1060.6 | 1066.5 | 1054.9 | 1038.4 |
| 22.5° | 1184.5 | 1173.2 | 1166.9 | 1141.4 | 1131.3 | 1132.0 | 1147.8 | 1166.1 | 1171.0 | 1150.4 | 1113.4 |
| 25° | 1366.8 | 1349.2 | 1340.6 | 1303.2 | 1280.3 | 1260.5 | 1272.8 | 1296.4 | 1303.2 | 1277.8 | 1217.8 |
| 27.5° | 1549.2 | 1550.3 | 1542.1 | 1497.2 | 1459.4 | 1423.0 | 1416.7 | 1441.4 | 1448.5 | 1419.6 | 1345.5 |
| 30° | 1805.0 | 1778.4 | 1762.7 | 1708.8 | 1654.9 | 1603.9 | 1577.7 | 1587.8 | 1589.7 | 1555.2 | 1469.1 |
| 32.5° | 2025.6 | 2018.8 | 1985.1 | 1938.0 | 1868.7 | 1788.9 | 1745.1 | 1729.0 | 1726.0 | 1676.9 | 1574.7 |
| 35° | 2276.8 | 2273.1 | 2237.6 | 2181.3 | 2106.5 | 1995.6 | 1916.5 | 1870.5 | 1866.8 | 1797.8 | 1679.2 |
| 37.5° | 2532.3 | 2532.3 | 2497.4 | 2436.0 | 2358.5 | 2219.9 | 2099.7 | 2026.7 | 2014.7 | 1924.8 | 1785.6 |
| 40° | 2735.9 | 2723.6 | 2730.0 | 2704.2 | 2615.4 | 2468.2 | 2303.1 | 2197.1 | 2181.0 | 2073.2 | 1898.6 |
| 42.5° | 2851.7 | 2847.6 | 2885.8 | 2914.6 | 2878.3 | 2760.6 | 2527.0 | 2381.7 | 2359.2 | 2236.4 | 2029.0 |
| 45° | 2877.5 | 2873.0 | 2941.1 | 3046.8 | 3097.8 | 3049.4 | 2770.4 | 2576.0 | 2548.8 | 2407.2 | 2168.6 |
| 47.5° | 2817.9 | 2809.0 | 2909.0 | 3075.6 | 3238.9 | 3323.9 | 3034.0 | 2786.9 | 2747.2 | 2573.5 | 2312.1 |
| 50° | 2639.0 | 2630.4 | 2781.6 | 3002.9 | 3286.5 | 3510.4 | 3320.2 | 3010.4 | 2949.7 | 2751.7 | 2456.9 |
| 52.5° | 2249.9 | 2254.0 | 2491.1 | 2795.2 | 3223.9 | 3626.4 | 3566.6 | 3246.0 | 3173.0 | 2934.1 | 2592.9 |
| 55° | 1752.5 | 1761.6 | 2052.9 | 2387.7 | 2973.7 | 3608.9 | 3734.7 | 3488.7 | 3416.0 | 3105.5 | 2733.4 |
| 57.5° | 1254.9 | 1294.6 | 1567.5 | 1899.0 | 2493.3 | 3329.9 | 3771.4 | 3719.3 | 3648.9 | 3292.8 | 2870.8 |
| 60° | 813.3 | 820.5 | 1101.4 | 1435.4 | 1898.6 | 2834.0 | 3696.9 | 3894.2 | 3839.1 | 3483.8 | 2985.7 |
| 62.5° | 521.3 | 526.1 | 697.3 | 1004.0 | 1366.5 | 2096.7 | 3445.9 | 3970.2 | 3953.4 | 3609.9 | 3096.2 |
| 65° | 383.1 | 379.4 | 468.4 | 663.6 | 920.4 | 1293.0 | 2958.8 | 3933.5 | 3966.9 | 3689.0 | 3187.5 |
| 67.5° | 319.8 | 314.6 | 358.3 | 459.5 | 678.1 | 734.3 | 2189.2 | 3695.0 | 3817.1 | 3680.1 | 3254.6 |
| 70° | 291.3 | 286.9 | 313.4 | 341.1 | 529.1 | 491.7 | 1103.6 | 3212.2 | 3400.3 | 3577.8 | 3243.7 |
| 72.5° | 246.8 | 238.9 | 275.2 | 303.0 | 411.5 | 377.1 | 456.1 | 2467.5 | 2696.7 | 3250.2 | 3091.0 |
| 75° | 191.4 | 186.1 | 217.2 | 266.6 | 309.3 | 294.4 | 288.3 | 1498.3 | 1748.4 | 2513.5 | 2704.2 |
| 77.5° | 151.7 | 144.5 | 173.0 | 207.9 | 278.3 | 222.1 | 210.1 | 645.2 | 893.2 | 1604.6 | 2023.4 |
| 80° | 114.2 | 107.8 | 131.4 | 164.4 | 213.8 | 167.4 | 135.9 | 263.2 | 336.6 | 813.0 | 1017.4 |
| 82.5° | 81.3 | 75.6 | 91.7 | 120.5 | 143.8 | 150.2 | 83.5 | 147.5 | 165.8 | 313.4 | 227.3 |
| 85° | 52.1 | 48.7 | 61.4 | 75.6 | 91.3 | 96.7 | 50.9 | 77.2 | 84.7 | 129.1 | 94.7 |
| 87.5° | 28.5 | 23.3 | 33.0 | 35.2 | 42.3 | 38.5 | 24.3 | 28.1 | 30.3 | 46.8 | 40.1 |
| 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° | 795.4 | 795.4 | 795.4 | 795.4 | 795.4 | 795.4 | 795.4 | 795.4 | 795.4 | 795.4 | 795.4 |
| 2.5° | 798.4 | 799.5 | 803.3 | 804.4 | 807.0 | 810.4 | 812.6 | 814.9 | 814.9 | 817.1 | 817.1 |
| 5° | 809.2 | 811.9 | 819.7 | 823.9 | 830.6 | 837.3 | 841.4 | 846.3 | 849.3 | 850.9 | 851.6 |
| 7.5° | 830.2 | 834.4 | 845.6 | 852.7 | 864.3 | 873.7 | 880.1 | 886.7 | 888.3 | 892.4 | 890.9 |
| 10° | 858.6 | 863.6 | 876.3 | 889.8 | 903.6 | 915.2 | 921.3 | 926.1 | 927.9 | 928.8 | 926.8 |
| 12.5° | 891.2 | 898.4 | 914.8 | 931.3 | 946.0 | 956.0 | 957.6 | 956.4 | 951.2 | 946.7 | 946.7 |
| 15° | 931.3 | 937.7 | 956.0 | 974.1 | 988.3 | 990.1 | 980.7 | 974.8 | 968.4 | 967.3 | 967.3 |
| 17.5° | 979.3 | 982.7 | 999.5 | 1017.1 | 1018.2 | 1011.9 | 998.0 | 992.4 | 986.4 | 982.3 | 982.7 |
| 20° | 1035.0 | 1033.9 | 1045.9 | 1053.4 | 1045.5 | 1026.1 | 1005.1 | 995.8 | 989.7 | 984.9 | 985.2 |
| 22.5° | 1101.8 | 1093.1 | 1091.6 | 1089.8 | 1068.8 | 1028.0 | 999.5 | 987.5 | 978.2 | 971.4 | 973.6 |
| 25° | 1198.7 | 1165.7 | 1142.9 | 1130.2 | 1083.0 | 1017.8 | 981.5 | 954.9 | 937.4 | 925.7 | 930.2 |
| 27.5° | 1320.0 | 1264.6 | 1206.9 | 1175.9 | 1083.0 | 997.2 | 938.1 | 895.0 | 866.1 | 854.2 | 860.2 |
| 30° | 1435.7 | 1377.7 | 1292.7 | 1230.9 | 1080.4 | 963.5 | 868.1 | 808.1 | 774.4 | 762.4 | 769.6 |
| 32.5° | 1534.6 | 1471.3 | 1383.7 | 1291.2 | 1074.0 | 908.9 | 781.2 | 714.8 | 682.3 | 668.1 | 675.2 |
| 35° | 1626.4 | 1558.9 | 1475.1 | 1357.5 | 1057.2 | 828.7 | 685.7 | 635.1 | 598.8 | 575.9 | 583.4 |
| 37.5° | 1720.4 | 1640.2 | 1561.6 | 1417.4 | 1026.8 | 735.1 | 612.2 | 569.2 | 526.5 | 495.8 | 504.1 |
| 40° | 1822.6 | 1726.7 | 1654.0 | 1452.9 | 977.0 | 646.0 | 555.3 | 516.0 | 470.7 | 438.2 | 444.5 |
| 42.5° | 1942.1 | 1830.4 | 1757.1 | 1471.3 | 908.9 | 582.7 | 518.2 | 479.7 | 437.1 | 410.4 | 415.6 |
| 45° | 2066.8 | 1944.6 | 1851.0 | 1471.0 | 832.8 | 553.1 | 506.2 | 468.1 | 421.0 | 393.2 | 397.7 |
| 47.5° | 2197.5 | 2064.1 | 1932.3 | 1447.0 | 766.9 | 557.2 | 499.6 | 443.0 | 390.9 | 364.0 | 367.8 |
| 50° | 2328.5 | 2194.8 | 2010.9 | 1402.1 | 738.8 | 548.3 | 474.5 | 407.8 | 346.3 | 322.1 | 323.6 |
| 52.5° | 2458.5 | 2333.7 | 2078.7 | 1338.0 | 710.4 | 515.0 | 442.3 | 362.1 | 328.0 | 311.2 | 311.2 |
| 55° | 2589.1 | 2471.2 | 2152.5 | 1244.8 | 639.2 | 476.0 | 388.4 | 344.9 | 313.4 | 298.1 | 296.6 |
| 57.5° | 2720.2 | 2629.9 | 2222.5 | 1151.5 | 549.7 | 428.0 | 358.7 | 323.9 | 298.8 | 285.8 | 283.5 |
| 60° | 2856.6 | 2811.6 | 2294.8 | 1065.8 | 461.4 | 366.6 | 337.0 | 307.1 | 281.6 | 267.0 | 265.9 |
| 62.5° | 2997.0 | 3011.6 | 2351.4 | 955.3 | 380.1 | 329.1 | 317.5 | 286.9 | 262.1 | 248.3 | 247.9 |
| 65° | 3138.5 | 3204.5 | 2388.5 | 802.2 | 308.2 | 293.6 | 296.6 | 264.8 | 239.6 | 227.7 | 227.3 |
| 67.5° | 3245.3 | 3343.3 | 2378.0 | 607.0 | 252.8 | 259.9 | 270.4 | 241.5 | 217.9 | 208.6 | 209.0 |
| 70° | 3257.2 | 3326.8 | 2274.6 | 415.6 | 211.6 | 226.9 | 241.2 | 218.7 | 194.3 | 187.6 | 188.0 |
| 72.5° | 3097.8 | 3102.2 | 1986.7 | 271.5 | 179.0 | 199.3 | 210.4 | 195.5 | 171.9 | 165.1 | 164.8 |
| 75° | 2679.5 | 2565.6 | 1458.6 | 179.0 | 149.8 | 171.2 | 181.6 | 171.2 | 148.3 | 149.8 | 144.5 |
| 77.5° | 2030.0 | 1817.0 | 885.6 | 127.3 | 125.0 | 143.8 | 158.1 | 150.6 | 131.1 | 147.2 | 129.6 |
| 80° | 1045.9 | 983.0 | 395.0 | 95.1 | 98.9 | 115.0 | 130.0 | 120.2 | 103.7 | 98.9 | 90.2 |
| 82.5° | 239.6 | 278.6 | 155.8 | 68.2 | 71.5 | 82.7 | 99.2 | 90.2 | 74.5 | 62.9 | 62.1 |
| 85° | 83.8 | 91.7 | 68.9 | 42.6 | 41.9 | 51.7 | 67.4 | 60.3 | 50.5 | 40.5 | 42.6 |
| 87.5° | 26.5 | 34.8 | 25.8 | 17.2 | 17.9 | 23.3 | 31.1 | 28.5 | 23.6 | 15.4 | 16.1 |
| 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)