

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: P962585

Luminaire Tested: **NVN-SB2C-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2C-827-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13596.6 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

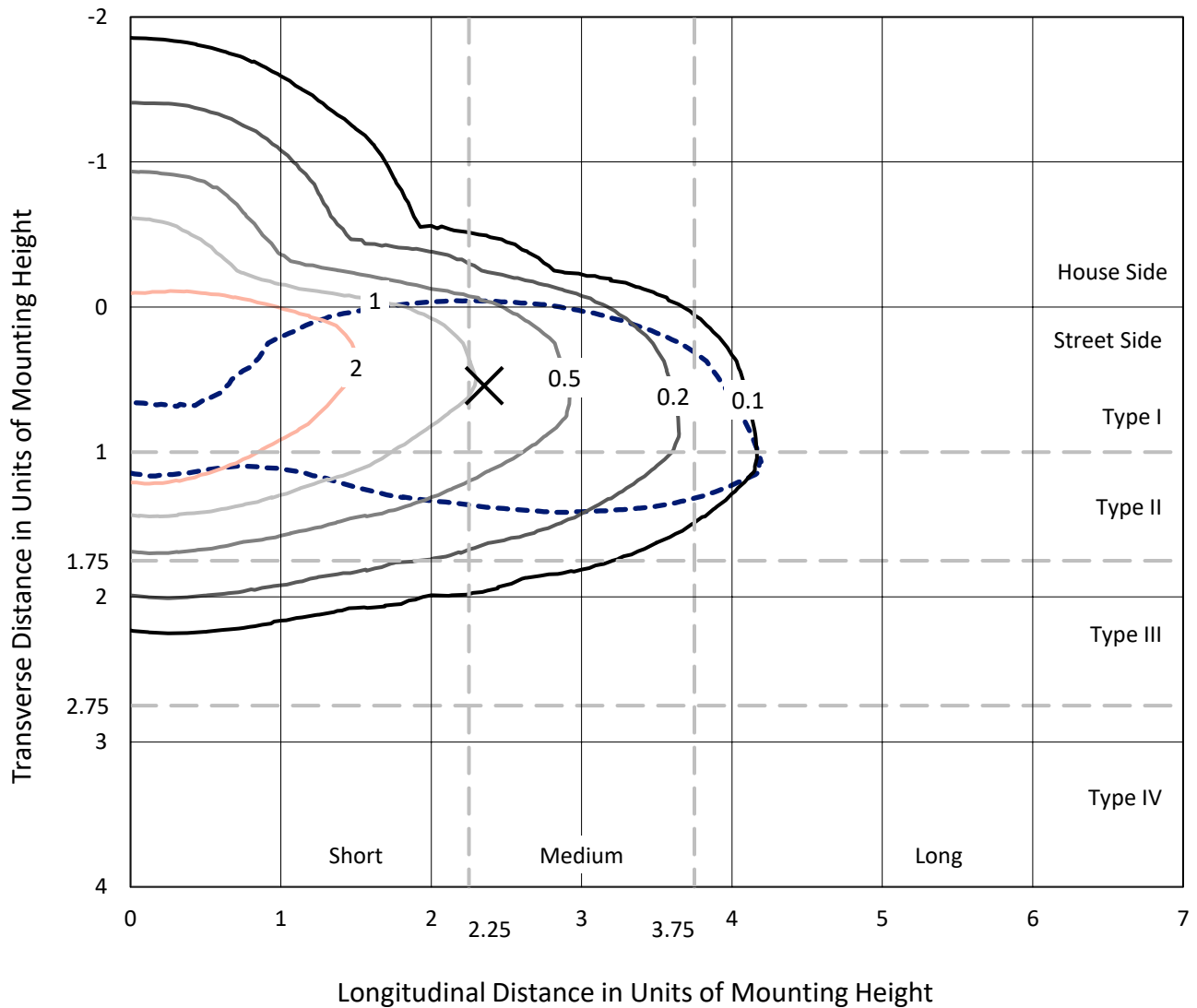
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

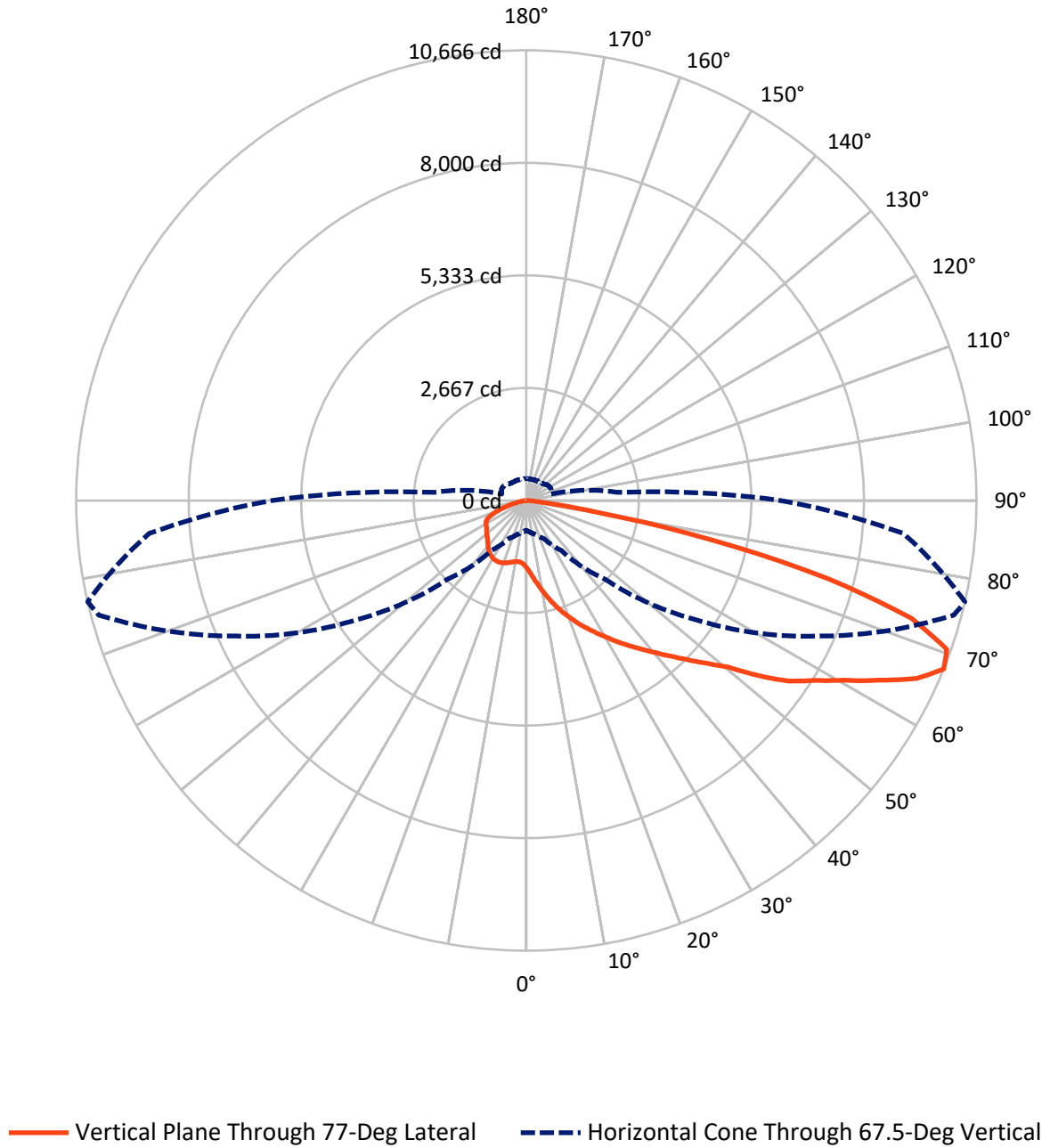
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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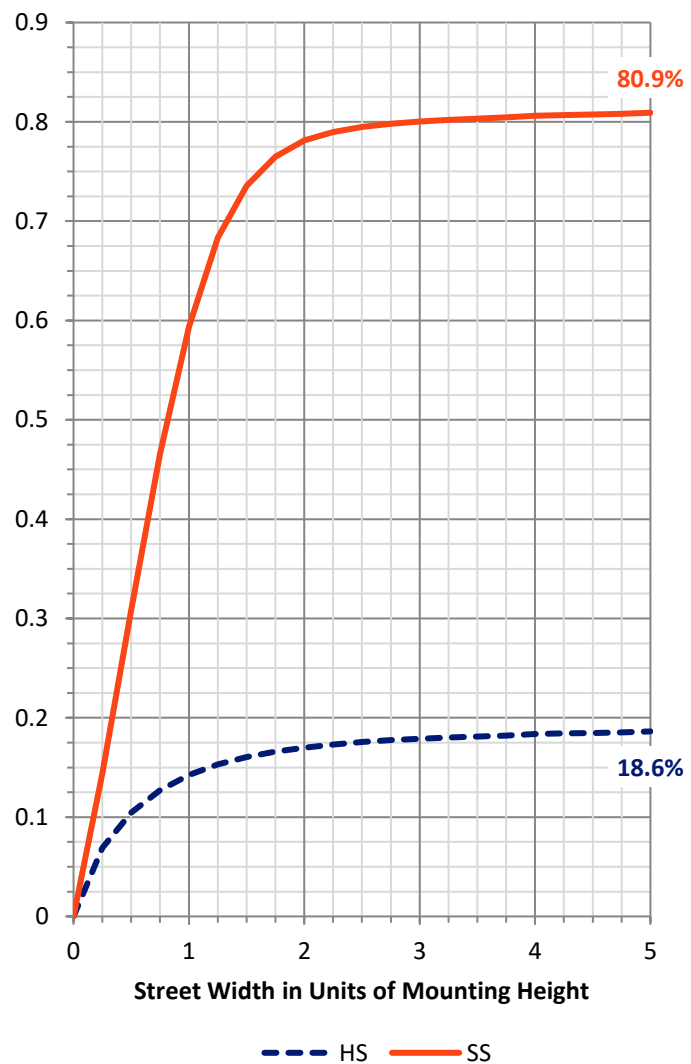
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2571.9 | 0.0 | 2571.9 |
| | % Fixture | 18.9 | 0.0 | 18.9 |
| Street Side | Lumens | 11024.7 | 0.0 | 11024.7 |
| | % Fixture | 81.1 | 0.0 | 81.1 |
| Total | Lumens | 13596.6 | 0.0 | 13596.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 171.0 | 1.3 |
| 10°-20° | 614.3 | 4.5 |
| 20°-30° | 1159.9 | 8.5 |
| 30°-40° | 1868.6 | 13.7 |
| 40°-50° | 2555.9 | 18.8 |
| 50°-60° | 2883.0 | 21.2 |
| 60°-70° | 2690.9 | 19.8 |
| 70°-80° | 1475.1 | 10.8 |
| 80°-90° | 177.9 | 1.3 |
| 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° | 13596.6 | 100.0 |
| 0°-180° | 13596.6 | 100.0 |

Coefficient of Utilization



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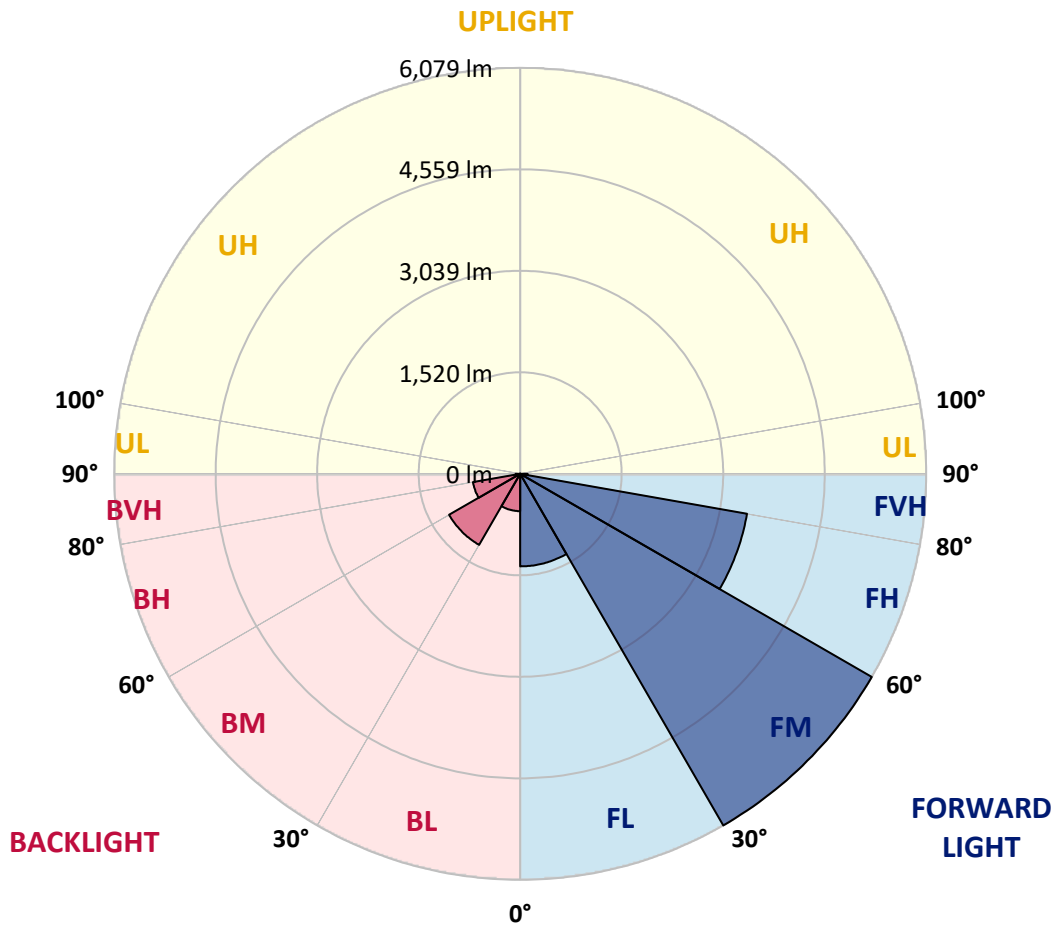
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1386.0 | 10.2 | | | |
| FM (30°-60°) | 6078.9 | 44.7 | | | |
| FH (60°-80°) | 3448.5 | 25.4 | | | G2/5000 |
| FVH (80°-90°) | 111.3 | 0.8 | | | G2/225 |
| BL (0°-30°) | 559.2 | 4.1 | B2/1000 | | |
| BM (30°-60°) | 1228.5 | 9.0 | B2/2500 | | |
| BH (60°-80°) | 717.5 | 5.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 66.7 | 0.5 | | | 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 Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0° | 1595.3 | 1595.3 | 1595.3 | 1595.3 | 1595.3 | 1595.3 | 1595.3 | 1595.3 | 1595.3 | 1595.3 | 1595.3 |
| 2.5° | 1997.4 | 2011.5 | 1993.9 | 1993.9 | 1935.0 | 1904.1 | 1845.2 | 1800.2 | 1719.5 | 1705.5 | 1652.2 |
| 5° | 2361.0 | 2378.6 | 2354.0 | 2343.5 | 2274.0 | 2210.1 | 2111.2 | 2013.6 | 1869.7 | 1854.9 | 1729.4 |
| 7.5° | 2642.4 | 2664.9 | 2643.2 | 2631.9 | 2570.2 | 2498.5 | 2382.8 | 2246.6 | 2043.7 | 2015.0 | 1833.2 |
| 10° | 2871.9 | 2875.4 | 2868.5 | 2872.7 | 2824.3 | 2765.2 | 2646.7 | 2488.1 | 2234.7 | 2195.3 | 1958.9 |
| 12.5° | 3001.8 | 3017.9 | 3032.0 | 3057.3 | 3048.9 | 3012.4 | 2905.7 | 2716.1 | 2436.8 | 2386.3 | 2095.7 |
| 15° | 3062.9 | 3091.0 | 3122.6 | 3180.8 | 3227.8 | 3237.0 | 3155.6 | 2961.1 | 2642.4 | 2581.4 | 2234.0 |
| 17.5° | 3084.6 | 3111.3 | 3161.1 | 3245.4 | 3346.4 | 3414.5 | 3378.0 | 3199.0 | 2846.0 | 2775.8 | 2379.2 |
| 20° | 3194.8 | 3202.5 | 3232.7 | 3312.7 | 3422.3 | 3535.2 | 3562.6 | 3427.8 | 3047.4 | 2968.1 | 2529.5 |
| 22.5° | 3430.7 | 3415.2 | 3423.6 | 3460.1 | 3538.7 | 3648.2 | 3710.7 | 3629.9 | 3254.5 | 3163.3 | 2681.1 |
| 25° | 3820.2 | 3775.3 | 3730.4 | 3688.3 | 3728.2 | 3790.0 | 3860.9 | 3832.1 | 3471.4 | 3355.5 | 2834.0 |
| 27.5° | 4312.2 | 4257.4 | 4158.4 | 4020.2 | 3971.8 | 3993.5 | 4025.1 | 4019.5 | 3672.1 | 3554.9 | 2992.0 |
| 30° | 4796.5 | 4732.6 | 4614.7 | 4414.7 | 4286.9 | 4229.4 | 4205.5 | 4189.4 | 3890.4 | 3765.4 | 3151.3 |
| 32.5° | 5183.1 | 5132.6 | 5016.9 | 4792.9 | 4607.7 | 4509.4 | 4430.0 | 4372.5 | 4118.4 | 3993.5 | 3319.8 |
| 35° | 5521.5 | 5474.4 | 5341.8 | 5097.5 | 4896.1 | 4791.6 | 4687.6 | 4564.8 | 4355.6 | 4229.4 | 3500.8 |
| 37.5° | 5830.3 | 5783.3 | 5601.4 | 5347.4 | 5144.6 | 5072.3 | 4979.7 | 4771.2 | 4593.6 | 4474.3 | 3692.5 |
| 40° | 6025.4 | 6014.9 | 5845.1 | 5557.2 | 5346.7 | 5310.9 | 5280.0 | 5010.5 | 4857.5 | 4746.6 | 3903.0 |
| 42.5° | 6075.2 | 6098.3 | 5963.7 | 5727.1 | 5526.4 | 5497.6 | 5569.8 | 5281.4 | 5153.7 | 5047.7 | 4141.6 |
| 45° | 5955.2 | 6021.9 | 5933.4 | 5772.7 | 5654.1 | 5638.6 | 5826.7 | 5577.6 | 5481.5 | 5384.6 | 4429.3 |
| 47.5° | 5651.3 | 5764.3 | 5727.8 | 5705.4 | 5688.5 | 5755.2 | 6052.7 | 5892.0 | 5852.7 | 5768.5 | 4757.8 |
| 50° | 5037.9 | 5252.0 | 5315.9 | 5457.6 | 5620.4 | 5845.7 | 6258.4 | 6235.3 | 6286.4 | 6201.6 | 5157.9 |
| 52.5° | 3977.4 | 4272.2 | 4642.7 | 4997.9 | 5411.3 | 5815.5 | 6484.4 | 6727.9 | 6944.1 | 6897.7 | 5793.8 |
| 55° | 3283.3 | 3415.9 | 3700.9 | 4352.2 | 5005.6 | 5688.5 | 6586.1 | 7125.9 | 7596.8 | 7555.4 | 6276.0 |
| 57.5° | 2749.9 | 2868.5 | 3043.9 | 3587.9 | 4392.2 | 5400.0 | 6649.4 | 7368.7 | 8043.9 | 8039.7 | 6751.8 |
| 60° | 2177.8 | 2303.5 | 2483.2 | 2868.5 | 3675.5 | 4901.8 | 6635.3 | 7645.3 | 8614.5 | 8649.6 | 7332.2 |
| 62.5° | 1532.2 | 1670.4 | 1869.7 | 2229.1 | 2943.6 | 4256.0 | 6349.0 | 7845.2 | 9286.2 | 9381.6 | 8030.6 |
| 65° | 1007.2 | 1098.4 | 1248.6 | 1558.8 | 2193.3 | 3425.8 | 5802.2 | 7871.3 | 10004.9 | 10166.3 | 8686.1 |
| 67.5° | 706.0 | 741.2 | 829.6 | 998.0 | 1445.8 | 2627.1 | 4931.2 | 7602.4 | 10484.2 | 10666.0 | 8970.4 |
| 70° | 550.9 | 568.5 | 613.5 | 680.8 | 908.2 | 1766.6 | 3778.8 | 6903.4 | 10381.8 | 10571.2 | 8673.4 |
| 72.5° | 475.8 | 492.7 | 509.5 | 517.9 | 609.2 | 1090.7 | 2559.6 | 5772.0 | 9416.8 | 9545.2 | 7541.3 |
| 75° | 431.6 | 435.8 | 449.9 | 447.1 | 464.6 | 707.5 | 1477.4 | 4205.5 | 7429.8 | 7385.5 | 5567.1 |
| 77.5° | 362.8 | 368.5 | 391.7 | 388.2 | 412.7 | 483.6 | 767.1 | 2714.1 | 4816.8 | 4516.5 | 3098.7 |
| 80° | 307.4 | 310.3 | 335.5 | 331.3 | 358.6 | 350.2 | 391.7 | 1383.3 | 2043.1 | 1730.7 | 893.5 |
| 82.5° | 106.7 | 131.9 | 256.1 | 263.9 | 273.7 | 212.0 | 226.0 | 564.3 | 623.9 | 478.0 | 187.4 |
| 85° | 52.0 | 55.5 | 130.6 | 185.3 | 184.6 | 106.7 | 110.2 | 201.4 | 196.5 | 154.4 | 62.4 |
| 87.5° | 8.4 | 10.6 | 15.5 | 72.3 | 57.5 | 28.1 | 37.9 | 39.3 | 40.7 | 35.1 | 14.0 |
| 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° | 1595.3 | 1595.3 | 1595.3 | 1595.3 | 1595.3 | 1595.3 | 1595.3 | 1595.3 | 1595.3 | 1595.3 | 1595.3 |
| 2.5° | 1612.8 | 1577.8 | 1504.1 | 1436.0 | 1382.6 | 1331.4 | 1302.7 | 1278.1 | 1264.0 | 1261.3 | 1261.3 |
| 5° | 1656.4 | 1584.0 | 1450.1 | 1337.0 | 1263.3 | 1208.6 | 1179.8 | 1161.5 | 1152.4 | 1146.9 | 1146.2 |
| 7.5° | 1718.8 | 1612.8 | 1422.0 | 1293.6 | 1216.3 | 1177.0 | 1162.2 | 1159.5 | 1158.8 | 1159.5 | 1161.5 |
| 10° | 1805.1 | 1659.9 | 1419.1 | 1283.0 | 1218.4 | 1196.7 | 1196.0 | 1196.7 | 1199.5 | 1200.2 | 1200.9 |
| 12.5° | 1898.5 | 1708.3 | 1430.4 | 1292.1 | 1245.1 | 1233.2 | 1231.0 | 1230.3 | 1232.5 | 1233.9 | 1234.5 |
| 15° | 2000.3 | 1772.1 | 1449.4 | 1311.8 | 1274.6 | 1261.9 | 1259.8 | 1255.6 | 1254.9 | 1254.2 | 1253.5 |
| 17.5° | 2104.8 | 1835.4 | 1470.4 | 1332.8 | 1293.6 | 1275.9 | 1268.2 | 1258.4 | 1250.7 | 1248.6 | 1250.7 |
| 20° | 2210.8 | 1897.8 | 1485.1 | 1343.4 | 1294.9 | 1270.4 | 1254.9 | 1238.1 | 1224.8 | 1217.0 | 1219.9 |
| 22.5° | 2323.8 | 1963.1 | 1494.2 | 1340.5 | 1282.3 | 1248.6 | 1220.5 | 1200.9 | 1180.5 | 1167.2 | 1167.9 |
| 25° | 2434.1 | 2020.0 | 1493.5 | 1325.8 | 1257.7 | 1214.9 | 1179.2 | 1153.8 | 1125.8 | 1111.7 | 1111.7 |
| 27.5° | 2540.0 | 2071.1 | 1476.0 | 1299.8 | 1222.6 | 1174.9 | 1132.1 | 1101.9 | 1074.5 | 1061.2 | 1060.5 |
| 30° | 2649.5 | 2114.0 | 1448.6 | 1261.9 | 1181.2 | 1128.5 | 1081.6 | 1055.5 | 1031.0 | 1018.3 | 1017.7 |
| 32.5° | 2758.3 | 2153.3 | 1410.0 | 1214.9 | 1133.4 | 1082.9 | 1036.6 | 1012.8 | 998.0 | 998.0 | 998.8 |
| 35° | 2873.4 | 2180.7 | 1358.7 | 1160.2 | 1082.9 | 1034.5 | 998.0 | 984.0 | 982.6 | 974.2 | 972.1 |
| 37.5° | 2994.8 | 2198.2 | 1296.3 | 1104.0 | 1033.1 | 987.5 | 976.3 | 959.4 | 945.4 | 927.1 | 924.3 |
| 40° | 3122.6 | 2215.7 | 1221.2 | 1045.8 | 980.5 | 955.2 | 950.3 | 927.8 | 887.9 | 843.0 | 836.6 |
| 42.5° | 3277.6 | 2227.6 | 1143.3 | 987.5 | 925.1 | 916.7 | 923.6 | 885.0 | 821.1 | 787.5 | 788.2 |
| 45° | 3457.3 | 2247.3 | 1071.7 | 930.0 | 868.2 | 868.2 | 897.7 | 847.2 | 794.5 | 773.5 | 776.9 |
| 47.5° | 3690.3 | 2292.9 | 1005.0 | 866.7 | 815.6 | 829.6 | 840.1 | 801.6 | 772.0 | 746.1 | 745.4 |
| 50° | 4027.2 | 2402.4 | 936.2 | 802.9 | 775.5 | 803.6 | 788.8 | 766.4 | 732.1 | 710.9 | 708.9 |
| 52.5° | 4445.5 | 2467.0 | 875.2 | 745.4 | 741.2 | 769.3 | 748.1 | 727.1 | 701.1 | 673.1 | 667.5 |
| 55° | 4730.5 | 2479.0 | 824.0 | 703.3 | 718.0 | 715.1 | 707.5 | 688.5 | 674.4 | 637.2 | 638.0 |
| 57.5° | 5049.2 | 2502.8 | 781.9 | 678.0 | 703.3 | 672.4 | 669.5 | 653.4 | 635.2 | 609.9 | 601.5 |
| 60° | 5430.2 | 2540.0 | 745.4 | 668.2 | 690.6 | 644.3 | 630.3 | 623.9 | 605.7 | 593.1 | 596.6 |
| 62.5° | 5845.7 | 2573.7 | 708.2 | 669.5 | 675.9 | 616.9 | 595.8 | 593.8 | 582.5 | 578.3 | 578.3 |
| 65° | 6129.3 | 2481.7 | 661.8 | 668.2 | 652.7 | 588.9 | 562.2 | 561.5 | 552.4 | 550.9 | 550.2 |
| 67.5° | 6030.3 | 2190.4 | 599.4 | 648.5 | 628.8 | 560.8 | 531.3 | 528.5 | 516.6 | 517.2 | 517.2 |
| 70° | 5534.8 | 1775.0 | 513.0 | 600.0 | 599.4 | 535.6 | 499.0 | 489.8 | 473.8 | 476.5 | 479.4 |
| 72.5° | 4605.5 | 1315.3 | 397.3 | 519.4 | 552.4 | 512.4 | 461.9 | 447.1 | 426.7 | 429.6 | 428.9 |
| 75° | 3326.0 | 894.1 | 289.2 | 395.1 | 480.7 | 485.0 | 425.3 | 400.1 | 375.5 | 379.7 | 381.1 |
| 77.5° | 1702.0 | 506.8 | 212.7 | 272.3 | 377.6 | 440.7 | 392.4 | 358.6 | 353.0 | 392.4 | 386.7 |
| 80° | 555.1 | 254.1 | 147.4 | 190.9 | 247.7 | 360.8 | 343.9 | 305.3 | 303.9 | 313.0 | 268.9 |
| 82.5° | 165.6 | 107.4 | 94.7 | 125.7 | 136.8 | 276.5 | 296.8 | 230.9 | 198.6 | 209.2 | 216.2 |
| 85° | 56.9 | 52.0 | 54.0 | 62.4 | 65.3 | 162.2 | 207.8 | 153.0 | 144.6 | 159.3 | 157.2 |
| 87.5° | 13.3 | 18.2 | 15.5 | 14.0 | 14.0 | 39.3 | 80.7 | 63.9 | 88.5 | 58.9 | 56.9 |
| 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)