

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: P962894

Luminaire Tested: **NVN-SB2D-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962894
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2D-722-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14589.9 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

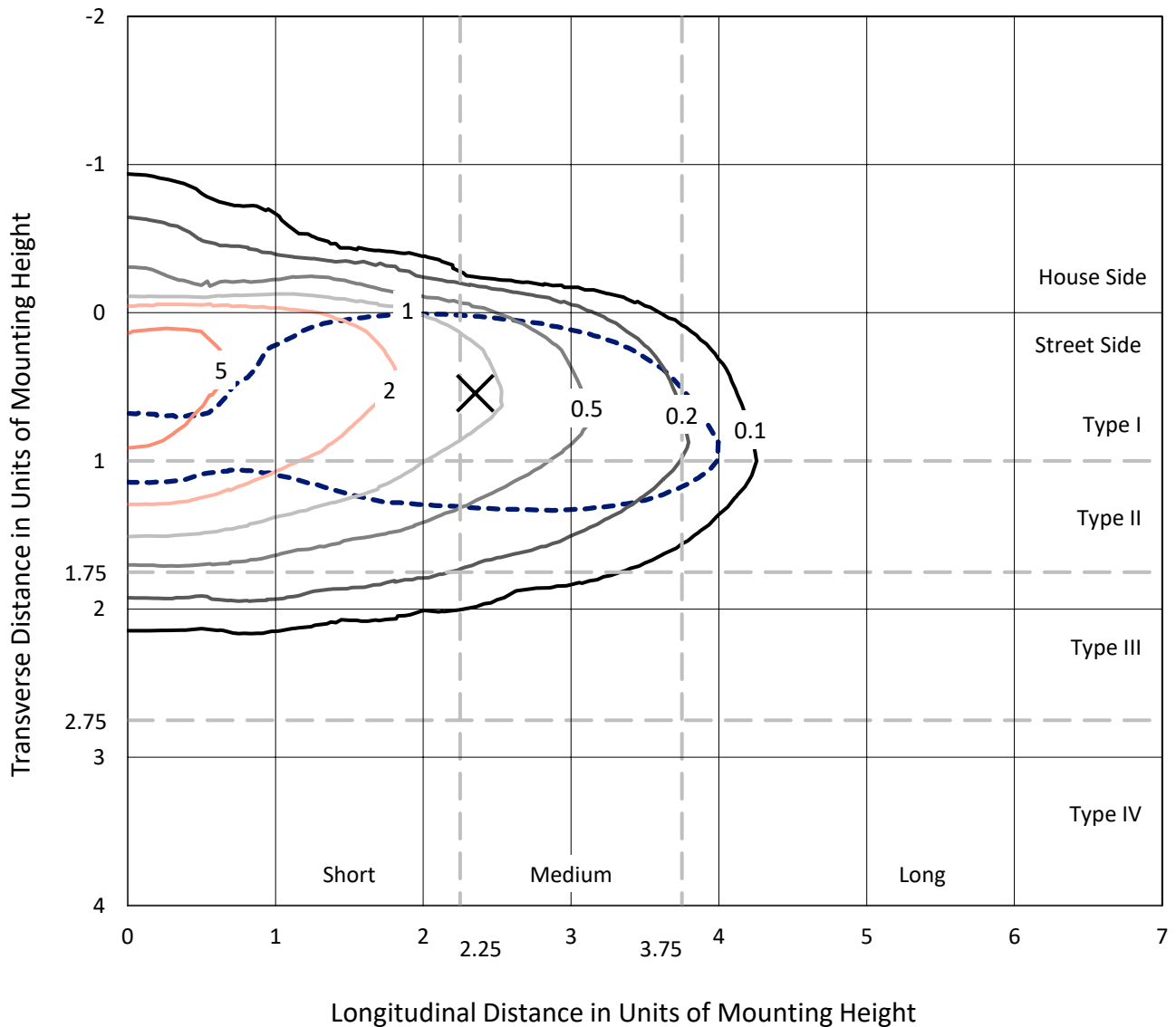
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

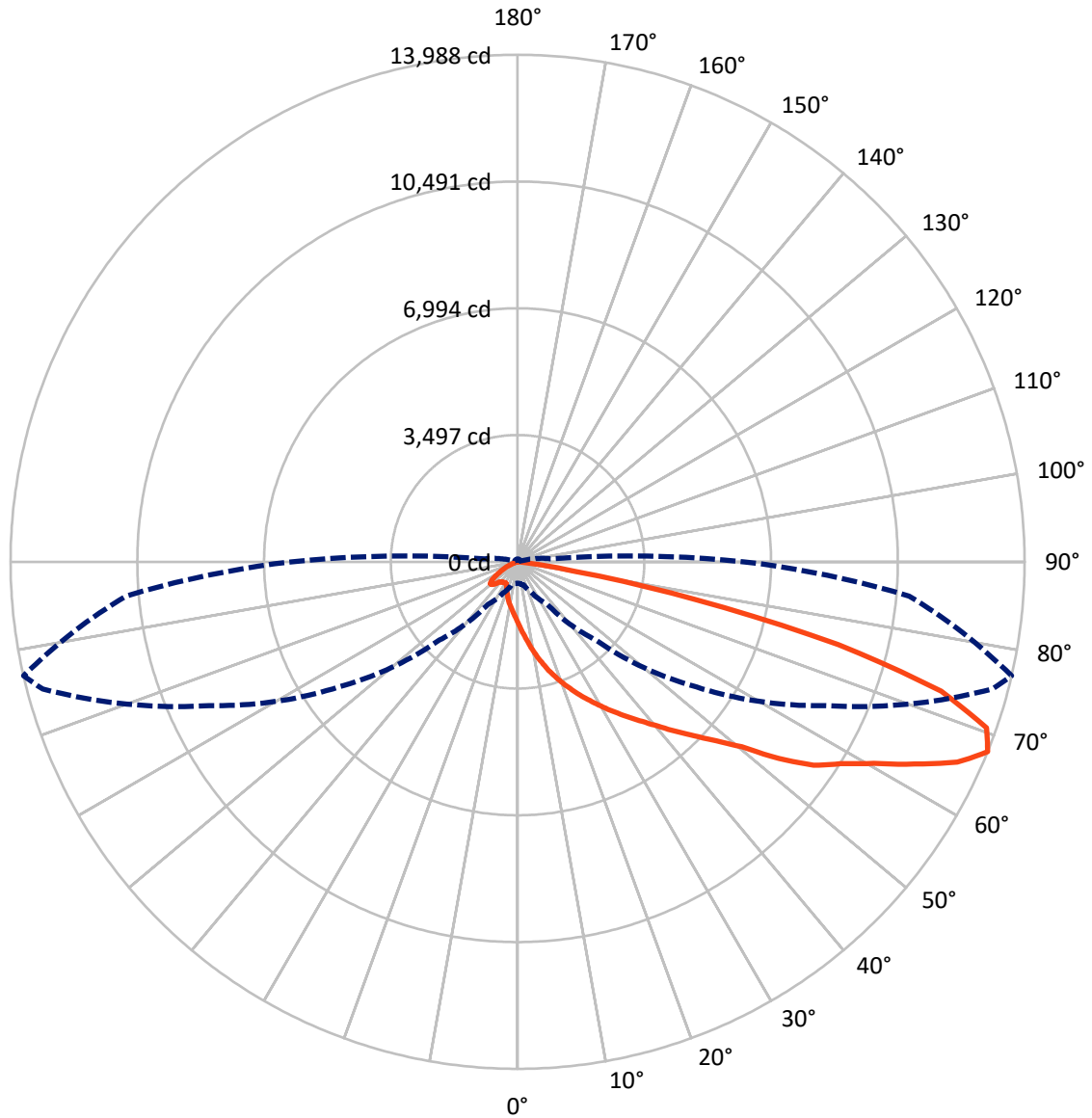
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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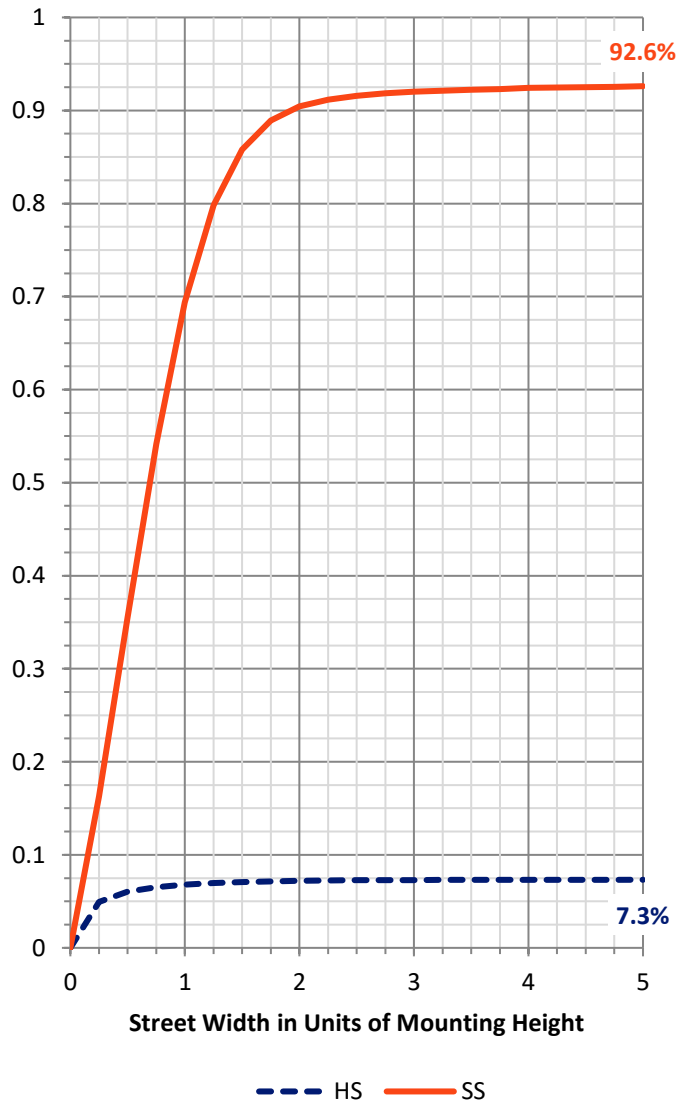
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1073.4 | 0.0 | 1073.4 |
| | % Fixture | 7.4 | 0.0 | 7.4 |
| Street Side | Lumens | 13516.5 | 0.0 | 13516.5 |
| | % Fixture | 92.6 | 0.0 | 92.6 |
| Total | Lumens | 14589.9 | 0.0 | 14589.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 171.7 | 1.2 |
| 10°-20° | 601.3 | 4.1 |
| 20°-30° | 1160.4 | 8.0 |
| 30°-40° | 2014.6 | 13.8 |
| 40°-50° | 2925.0 | 20.0 |
| 50°-60° | 3359.0 | 23.0 |
| 60°-70° | 2916.3 | 20.0 |
| 70°-80° | 1373.6 | 9.4 |
| 80°-90° | 67.9 | 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° | 14589.9 | 100.0 |
| 0°-180° | 14589.9 | 100.0 |

Coefficient of Utilization

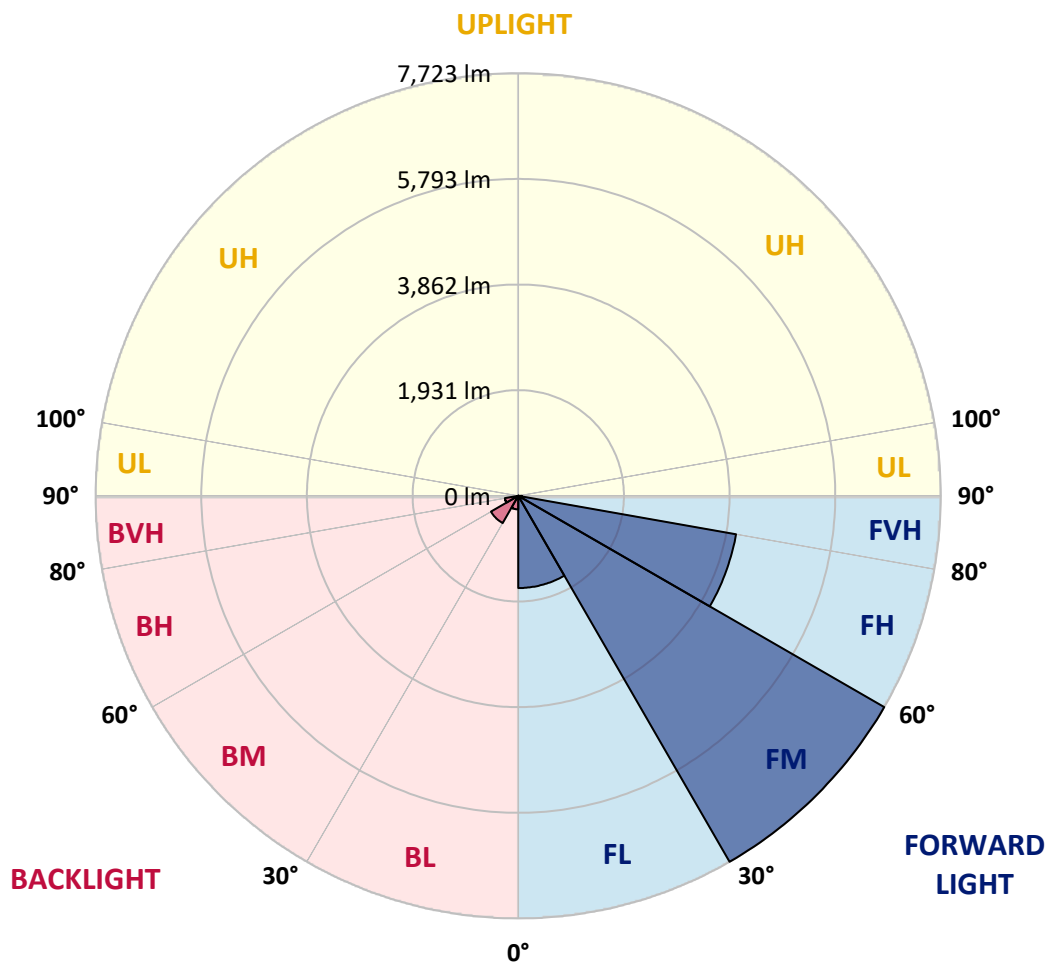


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1685.0 | 11.5 | | | |
| FM (30°-60°) | 7723.5 | 52.9 | | | |
| FH (60°-80°) | 4041.3 | 27.7 | | | G2/5000 |
| FVH (80°-90°) | 66.7 | 0.5 | | | G1/100 |
| BL (0°-30°) | 248.5 | 1.7 | B1/500 | | |
| BM (30°-60°) | 575.1 | 3.9 | B1/1000 | | |
| BH (60°-80°) | 248.5 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.2 | 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 II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 1682.4 | 1682.4 | 1682.4 | 1682.4 | 1682.4 | 1682.4 | 1682.4 | 1682.4 | 1682.4 | 1682.4 | 1682.4 |
| 2.5° | 2329.3 | 2343.8 | 2323.0 | 2283.1 | 2223.3 | 2184.4 | 2089.3 | 1999.6 | 1899.8 | 1868.2 | 1768.5 |
| 5° | 2839.4 | 2852.1 | 2828.5 | 2785.0 | 2705.3 | 2629.2 | 2504.2 | 2316.6 | 2121.9 | 2059.3 | 1882.6 |
| 7.5° | 3217.2 | 3224.4 | 3215.3 | 3175.4 | 3099.4 | 3013.3 | 2873.8 | 2651.9 | 2362.8 | 2294.0 | 2023.0 |
| 10° | 3489.0 | 3512.6 | 3509.8 | 3494.4 | 3443.7 | 3373.9 | 3225.4 | 2972.6 | 2632.8 | 2544.0 | 2181.6 |
| 12.5° | 3669.3 | 3695.5 | 3710.9 | 3745.3 | 3742.7 | 3698.3 | 3567.8 | 3300.5 | 2901.9 | 2797.7 | 2360.1 |
| 15° | 3721.8 | 3749.9 | 3808.8 | 3888.5 | 3959.2 | 3981.8 | 3890.3 | 3622.1 | 3198.1 | 3065.0 | 2543.1 |
| 17.5° | 3691.9 | 3735.4 | 3806.0 | 3932.0 | 4086.9 | 4189.3 | 4179.3 | 3932.9 | 3467.3 | 3315.1 | 2722.5 |
| 20° | 3758.1 | 3799.7 | 3855.0 | 3961.0 | 4141.3 | 4327.0 | 4401.3 | 4230.1 | 3734.5 | 3575.0 | 2910.9 |
| 22.5° | 4124.1 | 4116.8 | 4122.2 | 4139.5 | 4247.3 | 4431.2 | 4584.3 | 4500.1 | 3999.0 | 3836.0 | 3110.3 |
| 25° | 4703.9 | 4671.3 | 4616.0 | 4522.7 | 4495.5 | 4584.3 | 4743.8 | 4739.2 | 4278.0 | 4103.3 | 3314.1 |
| 27.5° | 5369.0 | 5363.4 | 5234.0 | 5009.2 | 4882.4 | 4847.9 | 4924.1 | 4972.1 | 4554.4 | 4367.7 | 3518.8 |
| 30° | 6005.8 | 6020.3 | 5845.5 | 5595.4 | 5362.6 | 5227.6 | 5158.7 | 5193.2 | 4835.2 | 4653.2 | 3730.0 |
| 32.5° | 6560.3 | 6575.7 | 6385.4 | 6092.8 | 5804.7 | 5641.6 | 5496.7 | 5411.5 | 5141.5 | 4943.1 | 3961.9 |
| 35° | 7028.6 | 7044.1 | 6825.8 | 6502.3 | 6195.2 | 6047.5 | 5883.5 | 5650.6 | 5449.5 | 5264.7 | 4220.1 |
| 37.5° | 7447.2 | 7442.7 | 7150.1 | 6823.9 | 6522.2 | 6405.3 | 6319.3 | 5945.1 | 5766.6 | 5588.2 | 4506.4 |
| 40° | 7694.6 | 7713.6 | 7463.5 | 7103.9 | 6811.2 | 6726.0 | 6720.6 | 6310.2 | 6132.7 | 5959.6 | 4819.9 |
| 42.5° | 7767.0 | 7800.6 | 7619.3 | 7324.0 | 7058.6 | 6966.2 | 7108.4 | 6705.2 | 6558.5 | 6390.0 | 5174.1 |
| 45° | 7636.6 | 7669.3 | 7586.7 | 7382.0 | 7227.1 | 7167.3 | 7441.8 | 7114.7 | 7013.3 | 6846.6 | 5573.6 |
| 47.5° | 7256.1 | 7296.9 | 7316.8 | 7273.3 | 7271.5 | 7332.1 | 7740.8 | 7545.9 | 7553.2 | 7382.9 | 6036.6 |
| 50° | 6519.5 | 6588.4 | 6771.4 | 6925.4 | 7163.6 | 7462.6 | 8031.6 | 8013.4 | 8162.1 | 8015.3 | 6640.1 |
| 52.5° | 5180.5 | 5278.3 | 5908.9 | 6330.2 | 6865.6 | 7438.2 | 8351.4 | 8763.6 | 9230.2 | 9015.5 | 7490.7 |
| 55° | 4163.0 | 4163.0 | 4675.8 | 5464.1 | 6284.0 | 7276.9 | 8490.9 | 9251.0 | 9957.8 | 9907.0 | 8089.6 |
| 57.5° | 3393.9 | 3434.6 | 3761.6 | 4458.3 | 5442.2 | 6892.8 | 8577.0 | 9557.3 | 10543.9 | 10506.8 | 8674.9 |
| 60° | 2094.7 | 2182.5 | 2800.4 | 3488.1 | 4484.7 | 6208.7 | 8522.7 | 9867.2 | 11255.1 | 11285.0 | 9379.7 |
| 62.5° | 1179.6 | 1212.2 | 1487.7 | 2509.6 | 3487.2 | 5289.2 | 8106.8 | 10040.2 | 12164.7 | 12291.6 | 10106.3 |
| 65° | 814.5 | 830.8 | 936.7 | 1561.9 | 2417.2 | 4211.0 | 7294.1 | 9932.4 | 13076.1 | 13332.6 | 10722.4 |
| 67.5° | 591.6 | 599.7 | 665.9 | 954.0 | 1434.2 | 3053.2 | 6020.3 | 9388.8 | 13559.0 | 13987.6 | 10840.2 |
| 70° | 454.8 | 460.2 | 508.3 | 627.0 | 847.1 | 1884.5 | 4372.3 | 8307.9 | 13209.4 | 13721.3 | 10236.8 |
| 72.5° | 369.6 | 375.0 | 412.3 | 463.9 | 561.7 | 1114.4 | 2650.0 | 6747.0 | 11665.5 | 12218.2 | 8714.8 |
| 75° | 311.7 | 318.9 | 352.4 | 385.9 | 440.3 | 715.8 | 1243.0 | 4698.5 | 8772.7 | 9135.1 | 6060.2 |
| 77.5° | 173.0 | 159.5 | 286.3 | 319.8 | 371.5 | 452.9 | 581.7 | 2765.0 | 4913.2 | 5013.8 | 2689.0 |
| 80° | 107.8 | 111.4 | 227.4 | 257.3 | 285.4 | 228.3 | 266.4 | 1064.6 | 1703.2 | 1618.1 | 520.9 |
| 82.5° | 6.4 | 14.5 | 174.9 | 185.7 | 195.7 | 97.9 | 100.6 | 361.5 | 410.4 | 376.9 | 92.5 |
| 85° | 0.0 | 0.0 | 79.7 | 64.4 | 68.0 | 28.1 | 29.0 | 84.3 | 55.2 | 59.8 | 18.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.8 | 0.0 | 2.8 | 5.4 | 7.3 | 2.8 | 3.6 | 6.4 |
| 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° | 1682.4 | 1682.4 | 1682.4 | 1682.4 | 1682.4 | 1682.4 | 1682.4 | 1682.4 | 1682.4 | 1682.4 | 1682.4 |
| 2.5° | 1705.1 | 1641.6 | 1513.0 | 1387.0 | 1284.7 | 1189.6 | 1121.7 | 1057.3 | 1024.7 | 1022.8 | 1021.0 |
| 5° | 1756.7 | 1623.5 | 1366.2 | 1138.9 | 955.8 | 809.0 | 713.9 | 646.0 | 611.5 | 599.7 | 598.0 |
| 7.5° | 1829.2 | 1628.9 | 1237.6 | 921.4 | 705.8 | 579.8 | 525.5 | 503.7 | 496.5 | 488.3 | 486.6 |
| 10° | 1920.7 | 1641.6 | 1122.5 | 742.0 | 556.3 | 492.8 | 471.1 | 462.1 | 456.6 | 451.2 | 449.4 |
| 12.5° | 2023.0 | 1653.4 | 1008.4 | 616.0 | 489.2 | 456.6 | 441.3 | 430.3 | 423.1 | 416.8 | 414.9 |
| 15° | 2122.8 | 1660.7 | 889.7 | 528.2 | 454.8 | 428.6 | 412.3 | 400.5 | 390.5 | 383.2 | 382.3 |
| 17.5° | 2221.5 | 1670.6 | 778.3 | 475.6 | 426.7 | 400.5 | 384.2 | 369.6 | 361.5 | 353.3 | 352.4 |
| 20° | 2331.2 | 1668.8 | 673.1 | 438.5 | 398.6 | 372.4 | 355.2 | 341.5 | 333.4 | 324.3 | 323.4 |
| 22.5° | 2432.6 | 1659.8 | 580.8 | 406.8 | 369.6 | 344.3 | 325.2 | 311.7 | 303.5 | 296.2 | 295.3 |
| 25° | 2549.5 | 1652.5 | 503.7 | 377.8 | 342.5 | 317.1 | 296.2 | 283.6 | 274.5 | 268.1 | 267.2 |
| 27.5° | 2661.8 | 1641.6 | 447.5 | 351.6 | 316.2 | 291.7 | 271.8 | 257.3 | 249.2 | 244.7 | 244.7 |
| 30° | 2772.3 | 1639.0 | 426.7 | 326.2 | 292.6 | 268.1 | 248.3 | 234.6 | 228.3 | 226.5 | 225.6 |
| 32.5° | 2905.5 | 1646.2 | 435.8 | 317.1 | 270.9 | 246.4 | 227.4 | 217.4 | 211.0 | 211.0 | 211.0 |
| 35° | 3047.7 | 1644.4 | 449.4 | 325.2 | 256.4 | 224.7 | 210.2 | 203.9 | 197.5 | 197.5 | 197.5 |
| 37.5° | 3226.2 | 1647.1 | 460.2 | 338.9 | 250.9 | 206.5 | 198.4 | 190.2 | 186.7 | 186.7 | 186.7 |
| 40° | 3492.6 | 1736.8 | 454.8 | 350.7 | 249.2 | 193.9 | 177.5 | 174.9 | 172.1 | 172.1 | 172.1 |
| 42.5° | 3818.7 | 1931.6 | 462.1 | 351.6 | 248.3 | 184.8 | 163.1 | 168.5 | 162.2 | 161.2 | 160.3 |
| 45° | 4175.7 | 2144.5 | 508.3 | 332.5 | 247.3 | 180.3 | 155.8 | 162.2 | 152.2 | 152.2 | 152.2 |
| 47.5° | 4530.0 | 2355.6 | 555.3 | 305.3 | 244.7 | 179.4 | 149.4 | 145.9 | 143.2 | 144.0 | 144.0 |
| 50° | 5018.3 | 2527.8 | 573.5 | 268.1 | 238.3 | 177.5 | 137.8 | 138.6 | 136.8 | 138.6 | 138.6 |
| 52.5° | 5550.1 | 2563.9 | 551.8 | 226.5 | 220.2 | 172.1 | 129.6 | 133.1 | 132.2 | 134.1 | 134.1 |
| 55° | 5881.7 | 2525.0 | 455.7 | 188.4 | 192.1 | 150.4 | 121.4 | 128.6 | 128.6 | 128.6 | 128.6 |
| 57.5° | 6224.1 | 2359.2 | 323.4 | 153.1 | 159.5 | 123.2 | 114.2 | 124.1 | 123.2 | 122.3 | 122.3 |
| 60° | 6470.6 | 2091.0 | 212.9 | 126.0 | 126.8 | 101.5 | 106.0 | 116.8 | 115.9 | 111.4 | 111.4 |
| 62.5° | 6654.5 | 1794.8 | 136.8 | 106.9 | 97.0 | 91.5 | 97.0 | 106.0 | 102.4 | 92.5 | 90.6 |
| 65° | 6633.7 | 1384.4 | 105.1 | 91.5 | 79.7 | 79.7 | 84.3 | 92.5 | 81.6 | 65.2 | 63.4 |
| 67.5° | 6246.8 | 936.7 | 87.0 | 77.0 | 67.0 | 66.1 | 69.8 | 77.0 | 69.8 | 55.2 | 53.4 |
| 70° | 5555.5 | 612.4 | 69.8 | 59.8 | 53.4 | 48.9 | 56.2 | 66.1 | 58.9 | 44.4 | 42.5 |
| 72.5° | 4509.1 | 373.3 | 52.6 | 43.5 | 38.9 | 31.7 | 44.4 | 54.3 | 47.2 | 32.6 | 30.9 |
| 75° | 2917.3 | 190.2 | 36.3 | 28.1 | 20.8 | 19.1 | 32.6 | 40.8 | 32.6 | 19.9 | 17.2 |
| 77.5° | 1116.2 | 79.7 | 19.9 | 12.7 | 10.9 | 9.0 | 18.1 | 24.5 | 13.6 | 4.5 | 3.6 |
| 80° | 214.7 | 33.5 | 9.9 | 6.4 | 5.4 | 3.6 | 2.8 | 1.8 | 0.0 | 0.0 | 0.0 |
| 82.5° | 37.1 | 10.9 | 3.6 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 12.7 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.5 | 0.0 | 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)