

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: P967272

Luminaire Tested: **NVN-SB4D-750-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4D-750-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45402.4 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

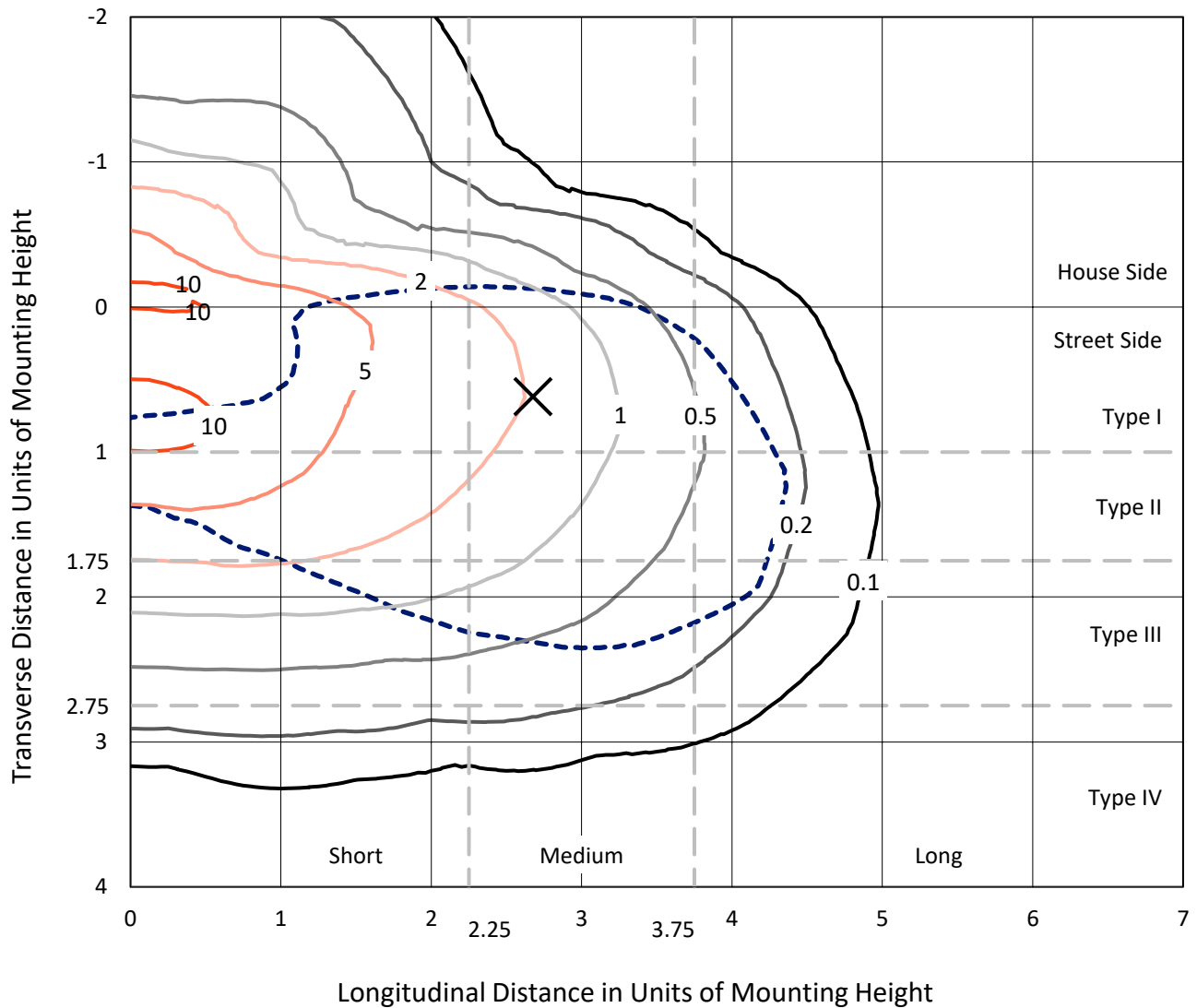
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

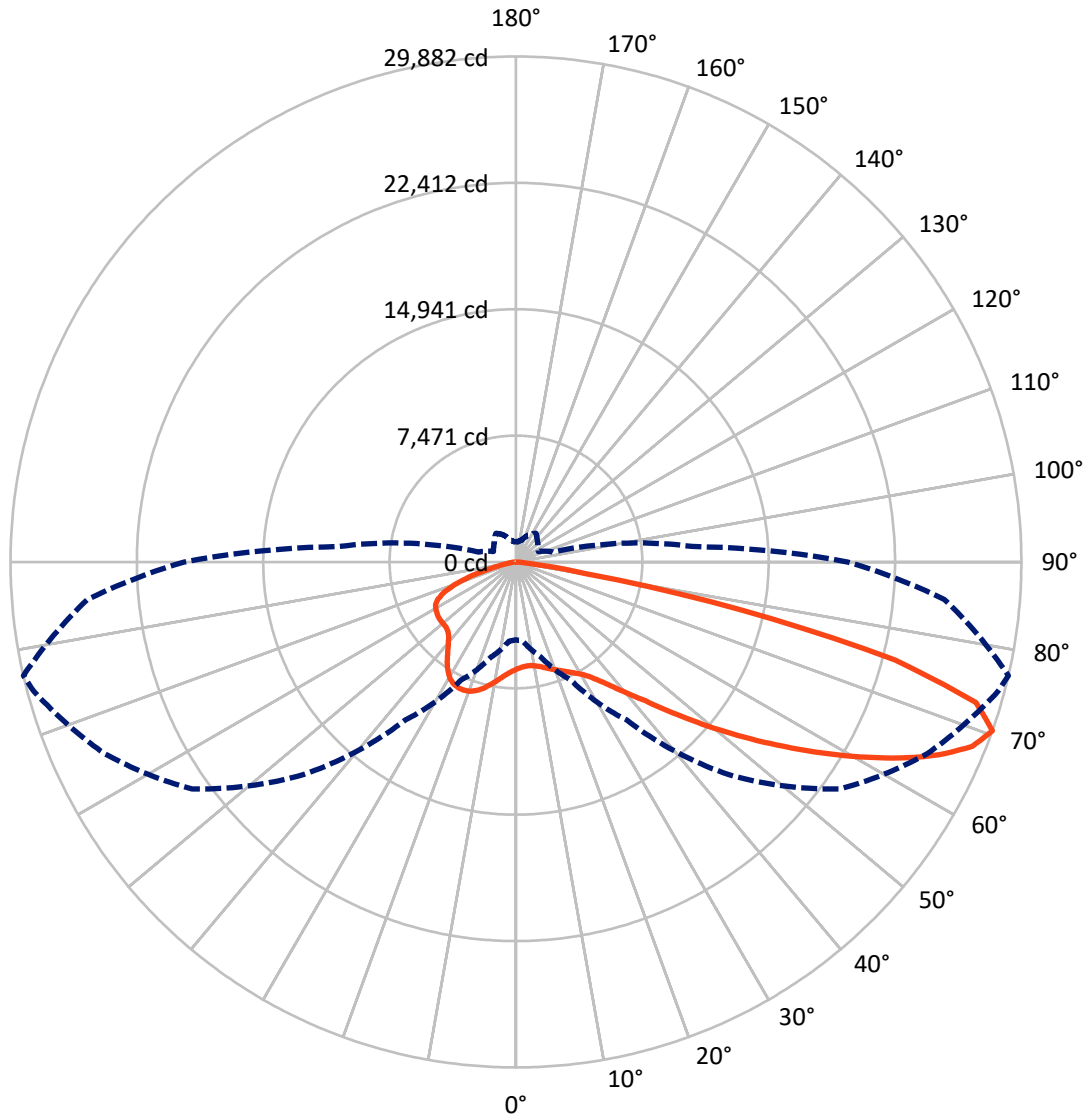
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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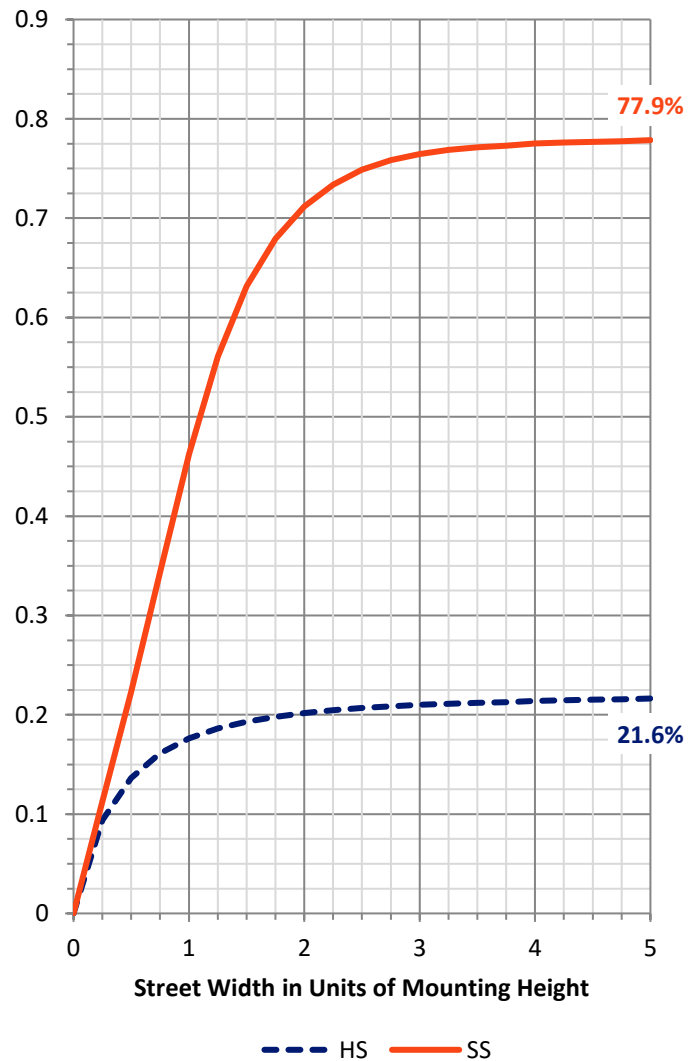
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9942.4 | 0.0 | 9942.4 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 35460.0 | 0.0 | 35460.0 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 45402.4 | 0.0 | 45402.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 604.1 | 1.3 |
| 10°-20° | 1743.5 | 3.8 |
| 20°-30° | 2981.6 | 6.6 |
| 30°-40° | 4794.7 | 10.6 |
| 40°-50° | 7485.8 | 16.5 |
| 50°-60° | 9999.3 | 22.0 |
| 60°-70° | 10657.7 | 23.5 |
| 70°-80° | 6560.8 | 14.5 |
| 80°-90° | 574.9 | 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° | 45402.4 | 100.0 |
| 0°-180° | 45402.4 | 100.0 |

Coefficient of Utilization



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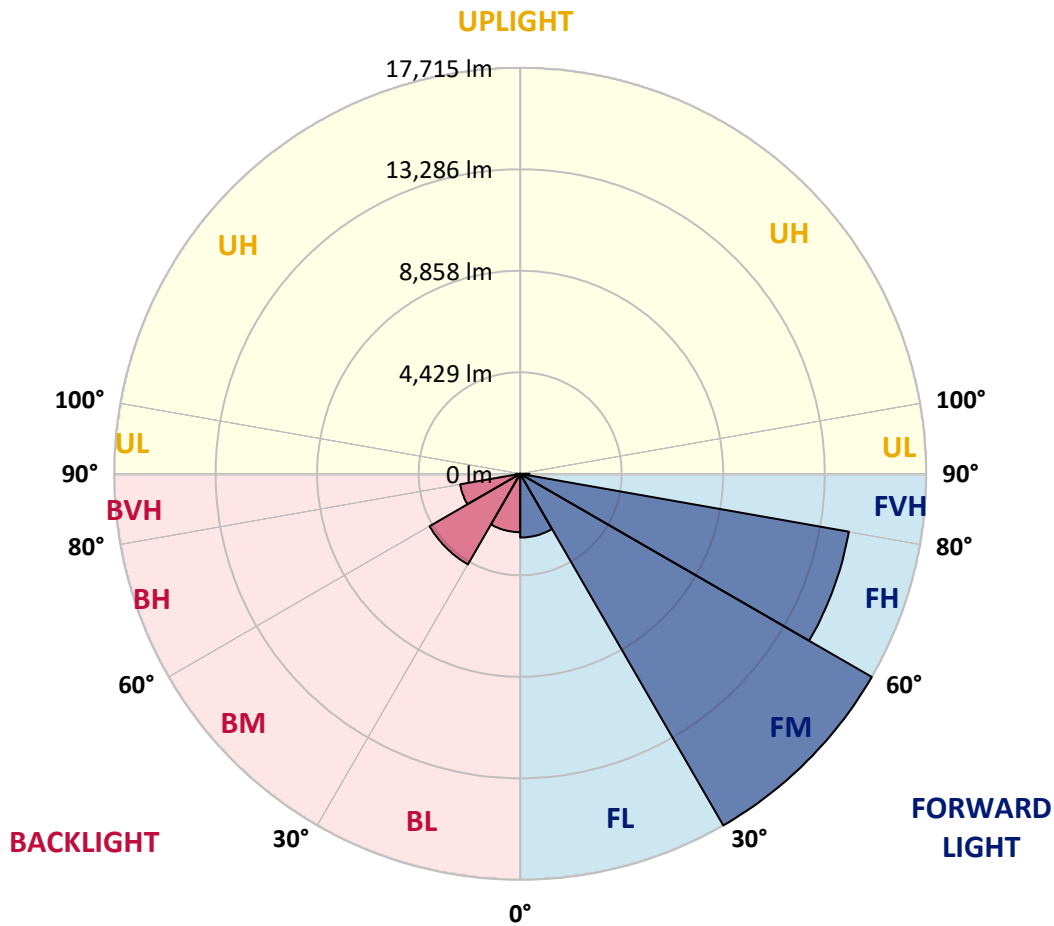
CATALOG NUMBER: NVN-SB4D-750-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2781.6 | 6.1 | | | |
| FM (30°-60°) | 17715.0 | 39.0 | | | |
| FH (60°-80°) | 14561.3 | 32.1 | | | G5 |
| FVH (80°-90°) | 402.0 | 0.9 | | | G3/500 |
| BL (0°-30°) | 2547.6 | 5.6 | B4/5000 | | |
| BM (30°-60°) | 4564.8 | 10.1 | B3/5000 | | |
| BH (60°-80°) | 2657.2 | 5.9 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 172.9 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6334.1 | 6334.1 | 6334.1 | 6334.1 | 6334.1 | 6334.1 | 6334.1 | 6334.1 | 6334.1 | 6334.1 | 6334.1 |
| 2.5° | 5838.8 | 5836.5 | 5866.7 | 5876.0 | 5931.8 | 5971.3 | 6045.8 | 6124.8 | 6227.1 | 6238.7 | 6301.5 |
| 5° | 5501.6 | 5501.6 | 5536.4 | 5573.6 | 5645.8 | 5724.8 | 5838.8 | 5976.0 | 6152.7 | 6180.5 | 6336.3 |
| 7.5° | 5215.6 | 5234.2 | 5264.4 | 5336.5 | 5420.2 | 5534.2 | 5708.5 | 5903.9 | 6136.4 | 6180.5 | 6431.7 |
| 10° | 4985.4 | 5006.3 | 5043.5 | 5101.6 | 5227.2 | 5385.3 | 5613.2 | 5864.3 | 6175.9 | 6245.7 | 6571.2 |
| 12.5° | 4913.3 | 4934.2 | 4955.2 | 4999.3 | 5115.6 | 5301.6 | 5573.6 | 5883.0 | 6271.3 | 6341.1 | 6761.9 |
| 15° | 5080.7 | 5106.3 | 5090.0 | 5078.4 | 5138.8 | 5308.6 | 5592.3 | 5950.3 | 6389.8 | 6489.9 | 6996.8 |
| 17.5° | 5466.7 | 5476.1 | 5438.9 | 5329.5 | 5320.3 | 5410.9 | 5680.7 | 6043.4 | 6538.7 | 6647.9 | 7233.9 |
| 20° | 6089.9 | 6073.6 | 5996.9 | 5780.6 | 5657.4 | 5638.8 | 5831.7 | 6182.9 | 6692.1 | 6808.4 | 7489.7 |
| 22.5° | 6936.3 | 6917.7 | 6764.2 | 6422.4 | 6148.1 | 5966.6 | 6050.4 | 6364.2 | 6864.2 | 6994.4 | 7738.5 |
| 25° | 7991.9 | 7966.4 | 7740.8 | 7275.8 | 6850.3 | 6401.4 | 6348.0 | 6603.8 | 7075.8 | 7196.7 | 7998.9 |
| 27.5° | 9224.4 | 9203.5 | 8959.3 | 8345.4 | 7731.6 | 6996.8 | 6717.7 | 6885.1 | 7296.7 | 7433.9 | 8291.9 |
| 30° | 10549.8 | 10610.2 | 10177.7 | 9517.3 | 8740.7 | 7773.4 | 7215.3 | 7231.6 | 7582.7 | 7705.9 | 8647.7 |
| 32.5° | 12107.7 | 12212.4 | 11691.5 | 10854.3 | 9794.1 | 8617.5 | 7843.2 | 7715.3 | 7998.9 | 8101.3 | 9096.5 |
| 35° | 13651.7 | 13770.3 | 13337.8 | 12412.3 | 11191.6 | 9612.7 | 8498.9 | 8271.0 | 8552.4 | 8664.0 | 9691.8 |
| 37.5° | 14986.4 | 15144.5 | 14921.2 | 14116.7 | 12686.7 | 10812.5 | 9354.6 | 8924.4 | 9233.7 | 9373.2 | 10491.6 |
| 40° | 16039.7 | 16281.6 | 16265.3 | 15763.1 | 14449.2 | 12268.1 | 10440.4 | 9731.2 | 10080.1 | 10231.2 | 11461.2 |
| 42.5° | 16895.5 | 17104.7 | 17286.1 | 17260.5 | 16288.6 | 13921.4 | 11717.1 | 10779.9 | 11045.1 | 11219.4 | 12551.8 |
| 45° | 17486.1 | 17709.3 | 18100.0 | 18520.8 | 18058.0 | 15690.9 | 13179.7 | 12024.0 | 12265.9 | 12528.6 | 13851.6 |
| 47.5° | 18013.9 | 18267.3 | 18774.3 | 19441.6 | 19560.2 | 17467.4 | 14781.7 | 13472.6 | 13693.5 | 13965.6 | 15156.2 |
| 50° | 18060.4 | 18278.9 | 19064.9 | 20011.3 | 20627.5 | 19174.2 | 16502.5 | 15098.0 | 15305.0 | 15595.6 | 16553.6 |
| 52.5° | 16937.3 | 17281.4 | 18653.4 | 19995.0 | 21118.2 | 20601.9 | 18211.6 | 16788.5 | 17021.0 | 17369.8 | 17999.9 |
| 55° | 13147.1 | 13651.7 | 17446.5 | 19371.9 | 20943.7 | 21525.1 | 19836.9 | 18585.9 | 18883.6 | 19248.6 | 19455.5 |
| 57.5° | 11324.1 | 11545.0 | 13849.3 | 18237.1 | 20148.5 | 21764.5 | 21208.8 | 20401.9 | 20881.0 | 21280.9 | 20994.9 |
| 60° | 10177.7 | 10361.4 | 11724.1 | 16472.3 | 19102.1 | 21385.5 | 22269.1 | 22094.8 | 22922.6 | 23399.2 | 22569.1 |
| 62.5° | 8950.0 | 9124.3 | 10363.8 | 13754.0 | 17762.7 | 20755.4 | 22938.8 | 23657.3 | 25015.3 | 25536.1 | 24052.6 |
| 65° | 7731.6 | 7880.3 | 9068.6 | 11556.6 | 16060.6 | 20125.3 | 23285.3 | 25008.4 | 26952.3 | 27491.7 | 25285.0 |
| 67.5° | 6373.6 | 6496.9 | 7620.0 | 9749.9 | 13991.1 | 19262.5 | 23457.3 | 26071.0 | 28638.1 | 29100.8 | 25894.3 |
| 70° | 4599.4 | 4694.7 | 5855.0 | 7710.6 | 11393.8 | 17779.0 | 23387.6 | 26824.4 | 29512.4 | 29882.1 | 25433.8 |
| 72.5° | 2174.1 | 2260.1 | 3622.8 | 5006.3 | 8047.8 | 14891.1 | 21976.2 | 26226.8 | 28624.2 | 28440.5 | 22615.6 |
| 75° | 1160.3 | 1234.7 | 2081.2 | 2746.2 | 4250.6 | 10208.0 | 17983.6 | 22592.3 | 24036.4 | 23143.5 | 16714.1 |
| 77.5° | 786.0 | 844.1 | 1288.2 | 1648.6 | 1941.6 | 4845.9 | 11558.9 | 15642.1 | 15049.2 | 13575.0 | 8371.0 |
| 80° | 623.2 | 683.7 | 1055.6 | 1116.1 | 939.4 | 1750.9 | 4776.1 | 7240.9 | 5201.7 | 4160.0 | 2381.1 |
| 82.5° | 479.0 | 546.4 | 888.3 | 809.2 | 511.6 | 718.5 | 1390.5 | 2290.4 | 1332.4 | 1013.8 | 576.7 |
| 85° | 292.9 | 365.1 | 697.6 | 516.2 | 288.3 | 327.9 | 472.0 | 637.1 | 406.9 | 339.5 | 206.9 |
| 87.5° | 148.8 | 209.3 | 353.4 | 188.4 | 130.2 | 76.8 | 125.6 | 125.6 | 107.0 | 93.0 | 53.5 |
| 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° | 6334.1 | 6334.1 | 6334.1 | 6334.1 | 6334.1 | 6334.1 | 6334.1 | 6334.1 | 6334.1 | 6334.1 | 6334.1 |
| 2.5° | 6357.3 | 6403.8 | 6482.8 | 6557.2 | 6615.5 | 6671.2 | 6727.0 | 6757.2 | 6766.5 | 6803.7 | 6824.7 |
| 5° | 6431.7 | 6517.8 | 6671.2 | 6815.3 | 6906.0 | 6961.9 | 7001.4 | 7024.6 | 7029.3 | 7040.9 | 7059.5 |
| 7.5° | 6568.9 | 6706.1 | 6920.0 | 7064.2 | 7131.6 | 7126.9 | 7110.7 | 7052.5 | 7029.3 | 7008.3 | 7013.0 |
| 10° | 6761.9 | 6943.2 | 7206.1 | 7306.0 | 7264.2 | 7152.6 | 7008.3 | 6838.6 | 6759.6 | 6682.8 | 6659.6 |
| 12.5° | 7001.4 | 7231.6 | 7489.7 | 7485.1 | 7278.1 | 6992.1 | 6657.3 | 6396.8 | 6231.7 | 6113.1 | 6085.2 |
| 15° | 7292.1 | 7557.1 | 7754.7 | 7596.7 | 7143.2 | 6629.4 | 6138.7 | 5799.2 | 5650.4 | 5520.2 | 5506.2 |
| 17.5° | 7592.0 | 7875.7 | 7966.4 | 7561.8 | 6803.7 | 6092.2 | 5536.4 | 5269.1 | 5122.5 | 5052.8 | 5073.8 |
| 20° | 7885.0 | 8166.4 | 8092.0 | 7361.9 | 6287.6 | 5483.0 | 4987.8 | 4841.2 | 4810.9 | 4827.2 | 4820.3 |
| 22.5° | 8194.3 | 8445.4 | 8117.5 | 6975.8 | 5629.5 | 4859.8 | 4587.8 | 4592.4 | 4659.9 | 4708.6 | 4720.3 |
| 25° | 8510.5 | 8680.2 | 8050.1 | 6417.7 | 4922.6 | 4401.8 | 4334.3 | 4408.7 | 4541.3 | 4636.6 | 4662.2 |
| 27.5° | 8815.1 | 8889.5 | 7903.6 | 5727.2 | 4315.7 | 4073.9 | 4085.5 | 4239.0 | 4439.0 | 4571.5 | 4604.0 |
| 30° | 9159.3 | 9075.6 | 7622.2 | 4950.5 | 3894.8 | 3792.5 | 3890.2 | 4069.2 | 4269.2 | 4387.8 | 4415.7 |
| 32.5° | 9547.6 | 9236.0 | 7175.8 | 4232.0 | 3597.2 | 3567.0 | 3727.4 | 3843.6 | 3932.0 | 3967.0 | 3985.5 |
| 35° | 10031.3 | 9461.6 | 6603.8 | 3727.4 | 3329.8 | 3401.9 | 3555.3 | 3497.2 | 3462.3 | 3443.7 | 3462.3 |
| 37.5° | 10659.1 | 9766.2 | 5934.1 | 3399.5 | 3113.5 | 3283.3 | 3346.1 | 3164.7 | 3027.5 | 2960.1 | 2976.4 |
| 40° | 11414.8 | 10212.6 | 5290.0 | 3146.1 | 2976.4 | 3181.0 | 3071.7 | 2853.1 | 2678.7 | 2583.4 | 2590.4 |
| 42.5° | 12254.2 | 10680.0 | 4748.2 | 2955.4 | 2899.6 | 3097.2 | 2869.4 | 2608.9 | 2327.6 | 2297.3 | 2327.6 |
| 45° | 13135.5 | 11161.3 | 4378.5 | 2808.9 | 2862.4 | 3025.2 | 2753.1 | 2332.3 | 2132.3 | 2255.5 | 2320.6 |
| 47.5° | 14016.8 | 11603.1 | 4155.2 | 2699.6 | 2843.8 | 2943.8 | 2650.9 | 2178.7 | 2037.0 | 2215.9 | 2299.7 |
| 50° | 14998.0 | 11998.4 | 4055.3 | 2620.6 | 2822.8 | 2911.2 | 2497.3 | 2139.3 | 1936.9 | 2055.5 | 2143.9 |
| 52.5° | 15972.3 | 12305.3 | 3980.9 | 2541.5 | 2792.6 | 2885.7 | 2422.9 | 2092.7 | 1816.0 | 1823.1 | 1871.9 |
| 55° | 16944.3 | 12505.3 | 3899.5 | 2436.9 | 2725.3 | 2829.8 | 2415.9 | 2041.6 | 1725.4 | 1692.8 | 1716.1 |
| 57.5° | 17981.4 | 12619.3 | 3799.5 | 2320.6 | 2608.9 | 2688.1 | 2409.0 | 2002.0 | 1697.4 | 1644.0 | 1651.0 |
| 60° | 19037.0 | 12786.7 | 3669.3 | 2178.7 | 2453.1 | 2518.3 | 2392.7 | 1988.1 | 1681.2 | 1590.5 | 1597.5 |
| 62.5° | 19983.4 | 12844.8 | 3513.5 | 2044.0 | 2253.2 | 2350.8 | 2357.8 | 1976.5 | 1637.0 | 1481.2 | 1481.2 |
| 65° | 20604.2 | 12593.7 | 3241.5 | 1890.4 | 2037.0 | 2178.7 | 2290.4 | 1936.9 | 1557.9 | 1402.1 | 1402.1 |
| 67.5° | 20578.7 | 11877.5 | 2815.9 | 1692.8 | 1827.7 | 1988.1 | 2192.8 | 1869.5 | 1462.6 | 1304.5 | 1311.5 |
| 70° | 19620.7 | 10463.7 | 2276.4 | 1462.6 | 1597.5 | 1783.5 | 2067.1 | 1769.6 | 1348.7 | 1197.5 | 1211.4 |
| 72.5° | 16828.0 | 8189.6 | 1653.2 | 1192.9 | 1330.0 | 1571.8 | 1904.4 | 1648.6 | 1232.4 | 1102.2 | 1095.2 |
| 75° | 12021.7 | 5183.0 | 1120.7 | 916.1 | 1034.7 | 1332.4 | 1702.1 | 1506.7 | 1125.4 | 1106.8 | 1044.1 |
| 77.5° | 6141.1 | 2476.4 | 741.8 | 669.6 | 720.9 | 1051.0 | 1430.1 | 1346.3 | 1141.7 | 913.8 | 813.8 |
| 80° | 1997.4 | 913.8 | 467.4 | 455.7 | 479.0 | 699.9 | 1106.8 | 1104.5 | 865.0 | 620.8 | 548.8 |
| 82.5° | 637.1 | 393.0 | 304.6 | 292.9 | 281.4 | 439.5 | 772.0 | 874.3 | 583.6 | 393.0 | 390.6 |
| 85° | 253.5 | 234.8 | 179.1 | 165.1 | 118.6 | 206.9 | 404.6 | 581.3 | 434.8 | 283.7 | 290.7 |
| 87.5° | 93.0 | 93.0 | 48.8 | 34.8 | 25.6 | 69.8 | 109.3 | 174.4 | 248.8 | 146.5 | 144.2 |
| 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)