

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: P967118

Luminaire Tested: **NVN-SB4D-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4D-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34555.8 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

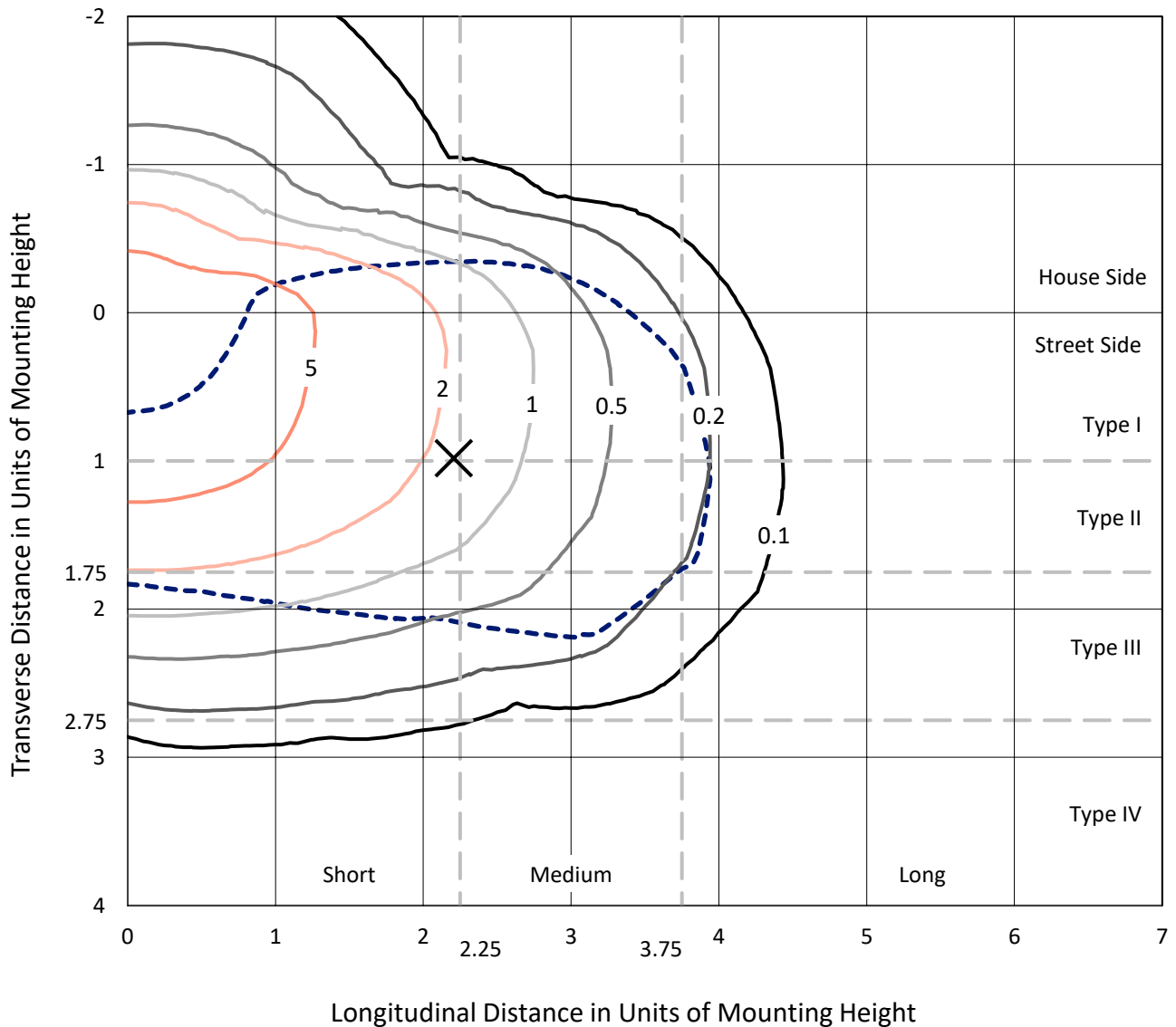
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

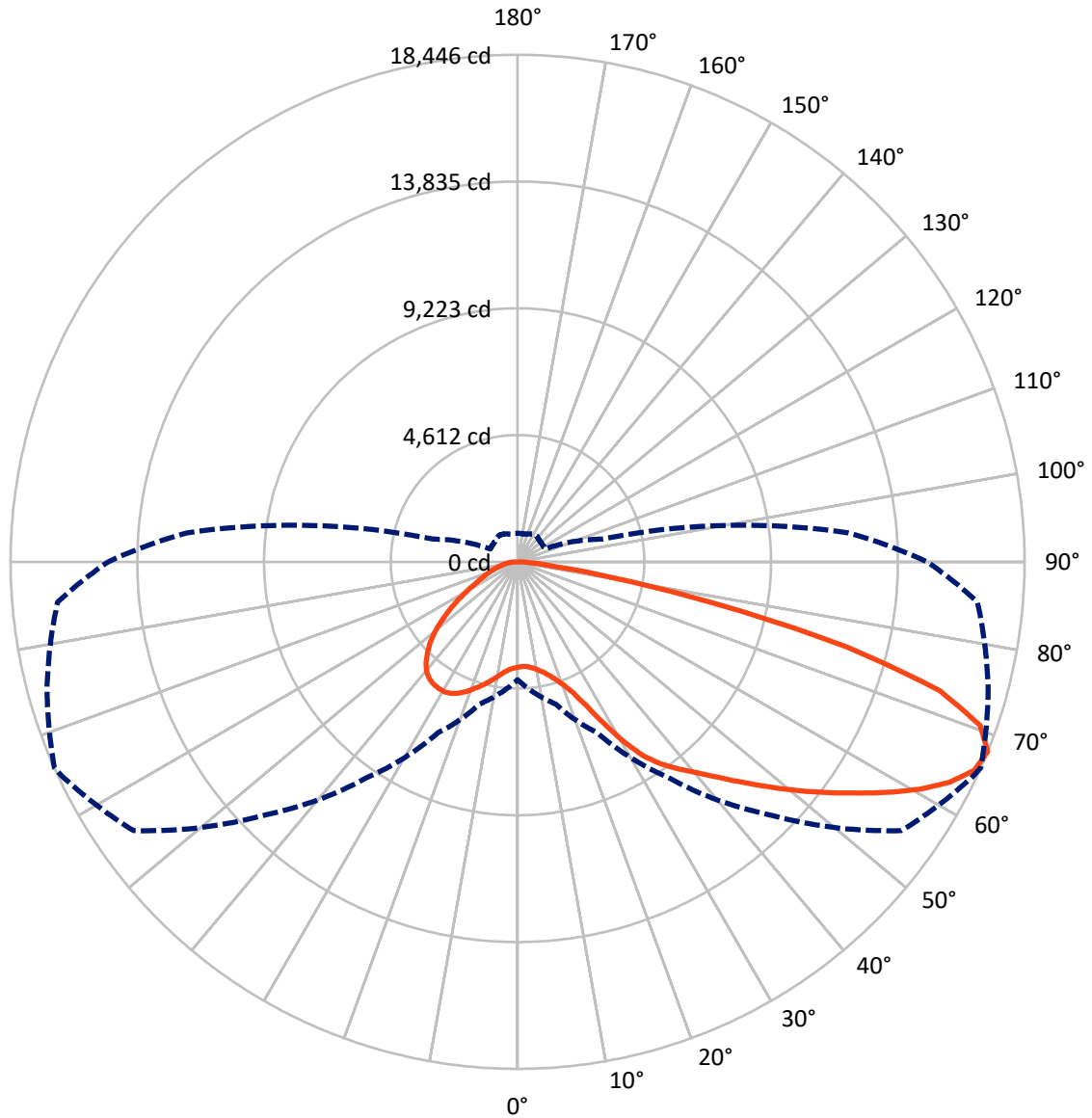
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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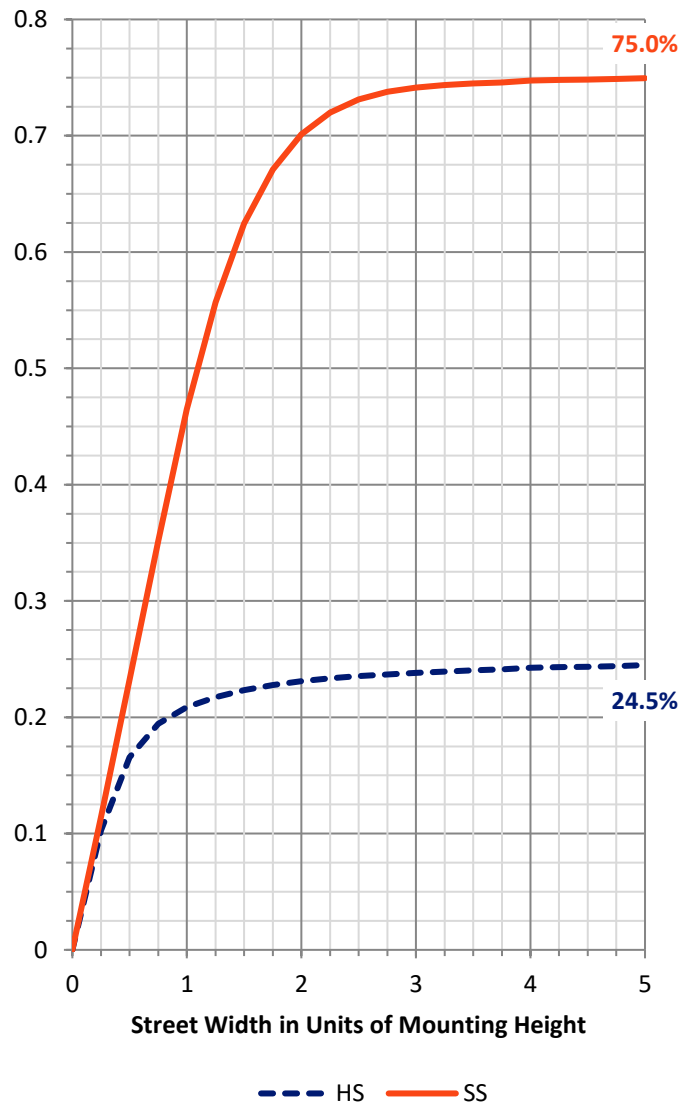
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8592.2 | 0.0 | 8592.2 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 25963.6 | 0.0 | 25963.6 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 34555.8 | 0.0 | 34555.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 380.0 | 1.1 |
| 10°-20° | 1255.5 | 3.6 |
| 20°-30° | 2419.8 | 7.0 |
| 30°-40° | 4242.9 | 12.3 |
| 40°-50° | 6307.7 | 18.3 |
| 50°-60° | 7995.7 | 23.1 |
| 60°-70° | 7823.6 | 22.6 |
| 70°-80° | 3731.9 | 10.8 |
| 80°-90° | 398.8 | 1.2 |
| 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° | 34555.8 | 100.0 |
| 0°-180° | 34555.8 | 100.0 |

Coefficient of Utilization



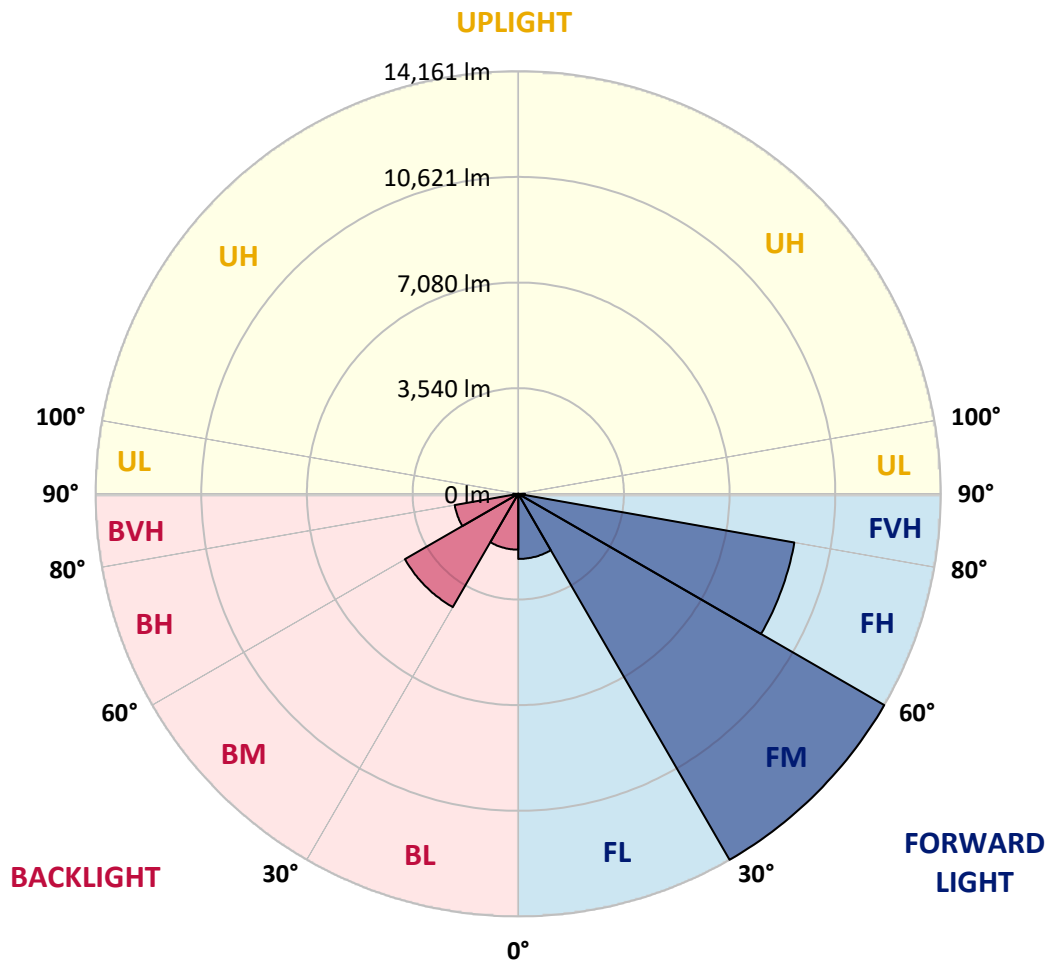
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2183.6 | 6.3 | | | |
| FM (30°-60°) | 14160.7 | 41.0 | | | |
| FH (60°-80°) | 9393.2 | 27.2 | | | G4/12000 |
| FVH (80°-90°) | 226.1 | 0.7 | | | G3/500 |
| BL (0°-30°) | 1871.7 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 4385.6 | 12.7 | B3/5000 | | |
| BH (60°-80°) | 2162.2 | 6.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 172.7 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3832.7 | 3832.7 | 3832.7 | 3832.7 | 3832.7 | 3832.7 | 3832.7 | 3832.7 | 3832.7 | 3832.7 | 3832.7 |
| 2.5° | 3792.7 | 3814.5 | 3809.1 | 3800.0 | 3798.2 | 3801.8 | 3807.3 | 3812.7 | 3811.0 | 3820.0 | 3834.5 |
| 5° | 3781.8 | 3803.7 | 3801.8 | 3801.8 | 3809.1 | 3823.7 | 3832.7 | 3841.8 | 3832.7 | 3843.5 | 3863.5 |
| 7.5° | 3789.1 | 3805.4 | 3812.7 | 3820.0 | 3838.1 | 3865.4 | 3887.2 | 3907.1 | 3896.2 | 3908.9 | 3934.4 |
| 10° | 3881.7 | 3894.4 | 3901.7 | 3901.7 | 3914.4 | 3945.2 | 3967.1 | 4003.3 | 3994.3 | 4014.2 | 4046.9 |
| 12.5° | 4050.6 | 4063.3 | 4063.3 | 4056.0 | 4065.0 | 4085.0 | 4092.3 | 4132.3 | 4115.9 | 4148.6 | 4181.3 |
| 15° | 4257.5 | 4283.0 | 4263.0 | 4250.3 | 4254.0 | 4273.8 | 4272.1 | 4303.0 | 4286.5 | 4313.8 | 4342.9 |
| 17.5° | 4486.3 | 4519.0 | 4486.3 | 4484.5 | 4477.2 | 4499.0 | 4500.9 | 4528.0 | 4499.0 | 4519.0 | 4539.0 |
| 20° | 4756.8 | 4802.2 | 4775.0 | 4784.1 | 4767.7 | 4776.8 | 4785.9 | 4825.8 | 4780.4 | 4795.0 | 4789.5 |
| 22.5° | 5138.1 | 5192.5 | 5163.5 | 5198.0 | 5187.1 | 5179.8 | 5178.1 | 5248.8 | 5178.1 | 5183.5 | 5130.8 |
| 25° | 5693.7 | 5759.1 | 5708.2 | 5755.4 | 5755.4 | 5779.1 | 5806.2 | 5897.0 | 5779.1 | 5744.5 | 5608.3 |
| 27.5° | 6514.3 | 6579.7 | 6479.8 | 6508.9 | 6499.8 | 6557.8 | 6528.8 | 6753.9 | 6626.9 | 6570.6 | 6296.5 |
| 30° | 7502.0 | 7618.2 | 7429.4 | 7422.1 | 7413.0 | 7505.7 | 7547.4 | 7696.2 | 7567.4 | 7511.1 | 7180.6 |
| 32.5° | 8569.5 | 8691.2 | 8466.1 | 8400.7 | 8366.3 | 8422.5 | 8388.0 | 8507.8 | 8418.8 | 8331.7 | 7923.2 |
| 35° | 9698.9 | 9818.7 | 9604.5 | 9477.4 | 9339.4 | 9221.3 | 9097.9 | 9128.8 | 9045.2 | 8912.7 | 8489.7 |
| 37.5° | 10766.4 | 10986.1 | 10759.1 | 10623.0 | 10368.8 | 10138.2 | 9793.3 | 9649.9 | 9571.8 | 9450.1 | 9023.5 |
| 40° | 11853.9 | 11979.2 | 11806.8 | 11690.5 | 11414.6 | 11053.3 | 10501.3 | 10198.1 | 10092.9 | 9974.8 | 9613.5 |
| 42.5° | 12654.6 | 12774.5 | 12681.8 | 12602.0 | 12385.9 | 11966.5 | 11253.0 | 10873.5 | 10721.0 | 10588.5 | 10281.7 |
| 45° | 13290.0 | 13379.0 | 13320.9 | 13350.0 | 13257.4 | 12850.7 | 12031.9 | 11598.0 | 11440.0 | 11278.4 | 11036.9 |
| 47.5° | 13546.1 | 13640.5 | 13733.1 | 13905.6 | 14063.5 | 13763.9 | 12868.9 | 12382.3 | 12215.2 | 12050.0 | 11812.2 |
| 50° | 13517.0 | 13613.2 | 13882.0 | 14248.7 | 14738.9 | 14639.0 | 13751.2 | 13217.5 | 13063.1 | 12874.3 | 12654.6 |
| 52.5° | 13284.6 | 13393.6 | 13738.5 | 14348.6 | 15129.3 | 15294.4 | 14649.9 | 14079.8 | 13934.6 | 13709.5 | 13489.8 |
| 55° | 12674.6 | 12739.9 | 13257.4 | 14121.6 | 15221.9 | 15752.0 | 15530.5 | 14998.5 | 14853.3 | 14539.2 | 14299.6 |
| 57.5° | 11543.4 | 11637.8 | 12391.3 | 13509.8 | 14989.5 | 16062.5 | 16304.0 | 15964.5 | 15824.7 | 15372.5 | 15122.0 |
| 60° | 10067.4 | 10218.1 | 11080.6 | 12482.1 | 14397.6 | 16060.6 | 17006.6 | 16913.9 | 16797.8 | 16193.2 | 15931.8 |
| 62.5° | 8397.1 | 8571.4 | 9401.1 | 11029.7 | 13362.7 | 15604.9 | 17445.9 | 17709.2 | 17649.3 | 16950.3 | 16616.3 |
| 65° | 6449.0 | 6568.8 | 7394.9 | 9150.6 | 11752.2 | 14626.3 | 17496.8 | 18252.1 | 18262.9 | 17525.9 | 16973.9 |
| 67.5° | 4293.8 | 4638.8 | 5355.9 | 6866.6 | 9595.3 | 13026.8 | 17050.2 | 18341.0 | 18446.3 | 17723.7 | 16794.1 |
| 70° | 2095.2 | 2549.1 | 3251.7 | 4462.7 | 6866.6 | 10574.0 | 15882.7 | 17611.1 | 17845.4 | 17146.4 | 15723.0 |
| 72.5° | 869.7 | 1016.7 | 1399.8 | 2202.3 | 3941.6 | 7135.2 | 13537.0 | 15632.2 | 16066.1 | 15192.9 | 13219.2 |
| 75° | 586.4 | 635.5 | 800.6 | 1129.2 | 1795.6 | 3518.6 | 9762.4 | 11656.1 | 12355.0 | 11474.5 | 9379.3 |
| 77.5° | 452.1 | 483.0 | 582.8 | 789.8 | 1067.5 | 1330.9 | 5225.2 | 7024.5 | 7385.8 | 6837.5 | 4880.3 |
| 80° | 355.9 | 379.5 | 435.7 | 575.5 | 757.1 | 711.8 | 1781.0 | 3182.7 | 3391.5 | 2845.0 | 1568.7 |
| 82.5° | 308.6 | 317.8 | 312.3 | 390.3 | 503.0 | 415.7 | 584.7 | 1174.6 | 1296.3 | 940.4 | 512.0 |
| 85° | 223.3 | 248.8 | 259.6 | 241.5 | 266.9 | 210.6 | 239.6 | 415.7 | 457.6 | 408.5 | 288.6 |
| 87.5° | 90.8 | 134.4 | 165.2 | 156.1 | 98.1 | 60.0 | 74.4 | 121.7 | 139.8 | 152.5 | 94.4 |
| 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° | 3832.7 | 3832.7 | 3832.7 | 3832.7 | 3832.7 | 3832.7 | 3832.7 | 3832.7 | 3832.7 | 3832.7 | 3832.7 |
| 2.5° | 3836.4 | 3849.1 | 3858.1 | 3869.0 | 3876.2 | 3887.2 | 3908.9 | 3921.6 | 3923.5 | 3932.5 | 3930.8 |
| 5° | 3870.8 | 3889.0 | 3908.9 | 3938.0 | 3970.6 | 3997.9 | 4039.6 | 4068.7 | 4079.6 | 4088.7 | 4086.9 |
| 7.5° | 3945.2 | 3970.6 | 4007.0 | 4057.9 | 4105.0 | 4141.3 | 4192.1 | 4226.7 | 4261.1 | 4273.8 | 4275.7 |
| 10° | 4056.0 | 4092.3 | 4145.0 | 4214.0 | 4264.8 | 4312.0 | 4364.7 | 4393.7 | 4428.2 | 4442.8 | 4450.0 |
| 12.5° | 4194.0 | 4232.1 | 4301.1 | 4397.4 | 4444.5 | 4477.2 | 4495.3 | 4488.2 | 4495.3 | 4508.1 | 4511.7 |
| 15° | 4351.9 | 4393.7 | 4471.8 | 4575.3 | 4608.0 | 4578.9 | 4539.0 | 4502.6 | 4497.2 | 4500.9 | 4513.6 |
| 17.5° | 4539.0 | 4569.9 | 4660.6 | 4747.8 | 4724.1 | 4604.3 | 4517.2 | 4459.1 | 4430.0 | 4420.9 | 4433.6 |
| 20° | 4800.4 | 4800.4 | 4874.8 | 4929.3 | 4771.4 | 4568.0 | 4431.8 | 4337.4 | 4277.5 | 4252.1 | 4246.7 |
| 22.5° | 5118.1 | 5089.1 | 5136.3 | 5098.1 | 4762.3 | 4466.3 | 4277.5 | 4114.1 | 4023.3 | 3987.0 | 3981.6 |
| 25° | 5521.2 | 5486.7 | 5474.0 | 5238.0 | 4697.0 | 4304.8 | 3997.9 | 3800.0 | 3720.1 | 3700.1 | 3703.8 |
| 27.5° | 6129.4 | 6042.3 | 5877.0 | 5314.2 | 4577.1 | 4050.6 | 3671.1 | 3487.8 | 3442.4 | 3444.2 | 3449.6 |
| 30° | 6939.1 | 6764.9 | 6360.0 | 5326.9 | 4381.1 | 3691.1 | 3337.1 | 3206.3 | 3184.6 | 3193.6 | 3224.4 |
| 32.5° | 7689.0 | 7523.8 | 6853.9 | 5268.8 | 4079.6 | 3338.8 | 3037.5 | 2950.4 | 2917.7 | 2928.5 | 2943.1 |
| 35° | 8277.3 | 8231.9 | 7311.3 | 5187.1 | 3709.3 | 3008.4 | 2768.7 | 2694.3 | 2630.8 | 2616.2 | 2627.2 |
| 37.5° | 8832.8 | 8814.7 | 7654.5 | 5072.7 | 3342.5 | 2774.2 | 2552.7 | 2454.7 | 2362.1 | 2311.3 | 2313.0 |
| 40° | 9442.8 | 9424.7 | 7879.6 | 4896.6 | 3017.5 | 2570.9 | 2358.4 | 2229.6 | 2115.2 | 2022.5 | 2031.7 |
| 42.5° | 10129.2 | 10022.0 | 7986.8 | 4644.3 | 2741.6 | 2398.4 | 2200.5 | 2026.2 | 1875.5 | 1790.2 | 1795.6 |
| 45° | 10878.9 | 10637.6 | 7985.0 | 4322.9 | 2509.1 | 2240.4 | 2031.7 | 1784.7 | 1644.9 | 1565.1 | 1561.4 |
| 47.5° | 11674.2 | 11225.8 | 7886.9 | 3967.1 | 2284.0 | 2066.1 | 1770.2 | 1581.4 | 1488.8 | 1439.7 | 1428.8 |
| 50° | 12494.9 | 11775.9 | 7719.9 | 3558.6 | 2053.4 | 1868.3 | 1606.8 | 1477.8 | 1407.1 | 1361.7 | 1345.3 |
| 52.5° | 13266.5 | 12275.2 | 7518.4 | 3095.6 | 1819.2 | 1675.8 | 1534.1 | 1434.3 | 1359.9 | 1309.0 | 1287.3 |
| 55° | 13983.7 | 12705.5 | 7233.3 | 2621.7 | 1628.6 | 1546.8 | 1499.7 | 1416.1 | 1330.9 | 1270.9 | 1247.3 |
| 57.5° | 14620.9 | 12985.0 | 6741.2 | 2176.9 | 1492.4 | 1458.0 | 1463.4 | 1385.3 | 1287.3 | 1236.5 | 1203.8 |
| 60° | 15151.0 | 13190.2 | 6013.3 | 1764.7 | 1381.7 | 1370.7 | 1407.1 | 1327.2 | 1212.8 | 1154.7 | 1129.2 |
| 62.5° | 15468.8 | 13186.6 | 5120.0 | 1445.2 | 1287.3 | 1290.9 | 1332.6 | 1254.6 | 1138.4 | 1083.9 | 1067.5 |
| 65° | 15441.5 | 12863.4 | 4139.6 | 1236.5 | 1196.5 | 1200.1 | 1254.6 | 1174.6 | 1076.7 | 1044.0 | 1042.1 |
| 67.5° | 14895.1 | 12075.4 | 3175.4 | 1100.2 | 1096.6 | 1112.9 | 1176.5 | 1120.2 | 1038.5 | 1034.8 | 1040.4 |
| 70° | 13415.3 | 10439.6 | 2287.6 | 991.3 | 993.1 | 1016.7 | 1100.2 | 1085.7 | 1018.5 | 1025.8 | 1024.0 |
| 72.5° | 10757.4 | 7959.5 | 1536.0 | 876.9 | 878.7 | 916.9 | 1027.7 | 1058.5 | 998.6 | 1094.8 | 1109.4 |
| 75° | 7164.3 | 4963.8 | 987.7 | 755.3 | 757.1 | 806.2 | 964.1 | 1005.8 | 944.1 | 1091.2 | 1100.2 |
| 77.5° | 3442.4 | 2231.3 | 715.3 | 635.5 | 635.5 | 680.8 | 833.3 | 900.6 | 804.3 | 847.9 | 777.1 |
| 80° | 1189.2 | 838.8 | 562.8 | 512.0 | 501.1 | 532.0 | 702.6 | 780.7 | 693.5 | 639.1 | 599.1 |
| 82.5° | 468.4 | 435.7 | 452.1 | 397.6 | 361.3 | 381.3 | 546.5 | 644.5 | 510.1 | 461.1 | 459.3 |
| 85° | 268.8 | 283.2 | 319.5 | 263.2 | 208.8 | 234.2 | 401.3 | 463.0 | 384.9 | 339.5 | 346.8 |
| 87.5° | 72.7 | 99.8 | 147.1 | 136.1 | 94.4 | 99.8 | 190.6 | 256.0 | 221.5 | 170.7 | 176.1 |
| 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)