

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: P967114

Luminaire Tested: **NVN-SB4D-722-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4D-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34216.6 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

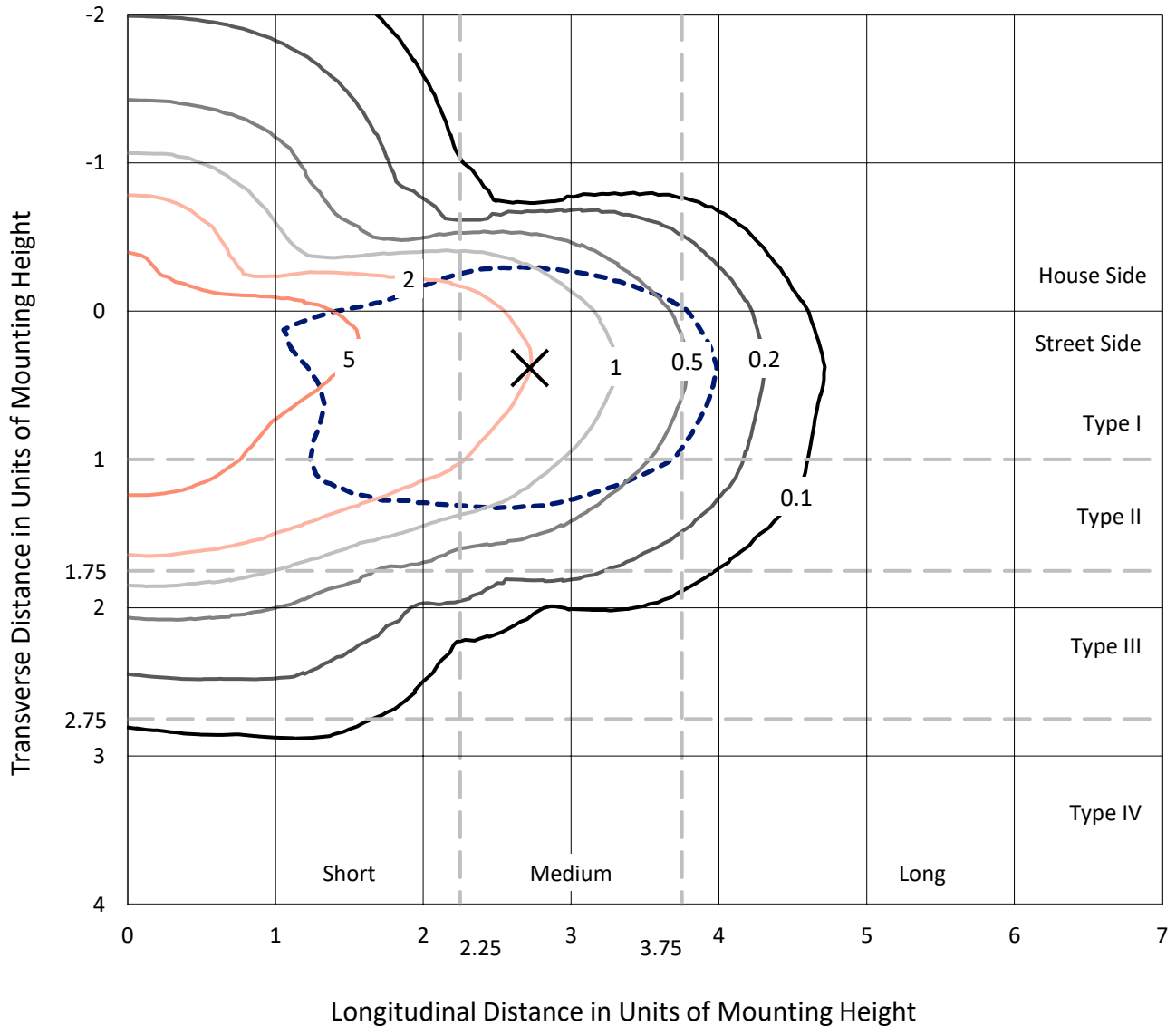
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

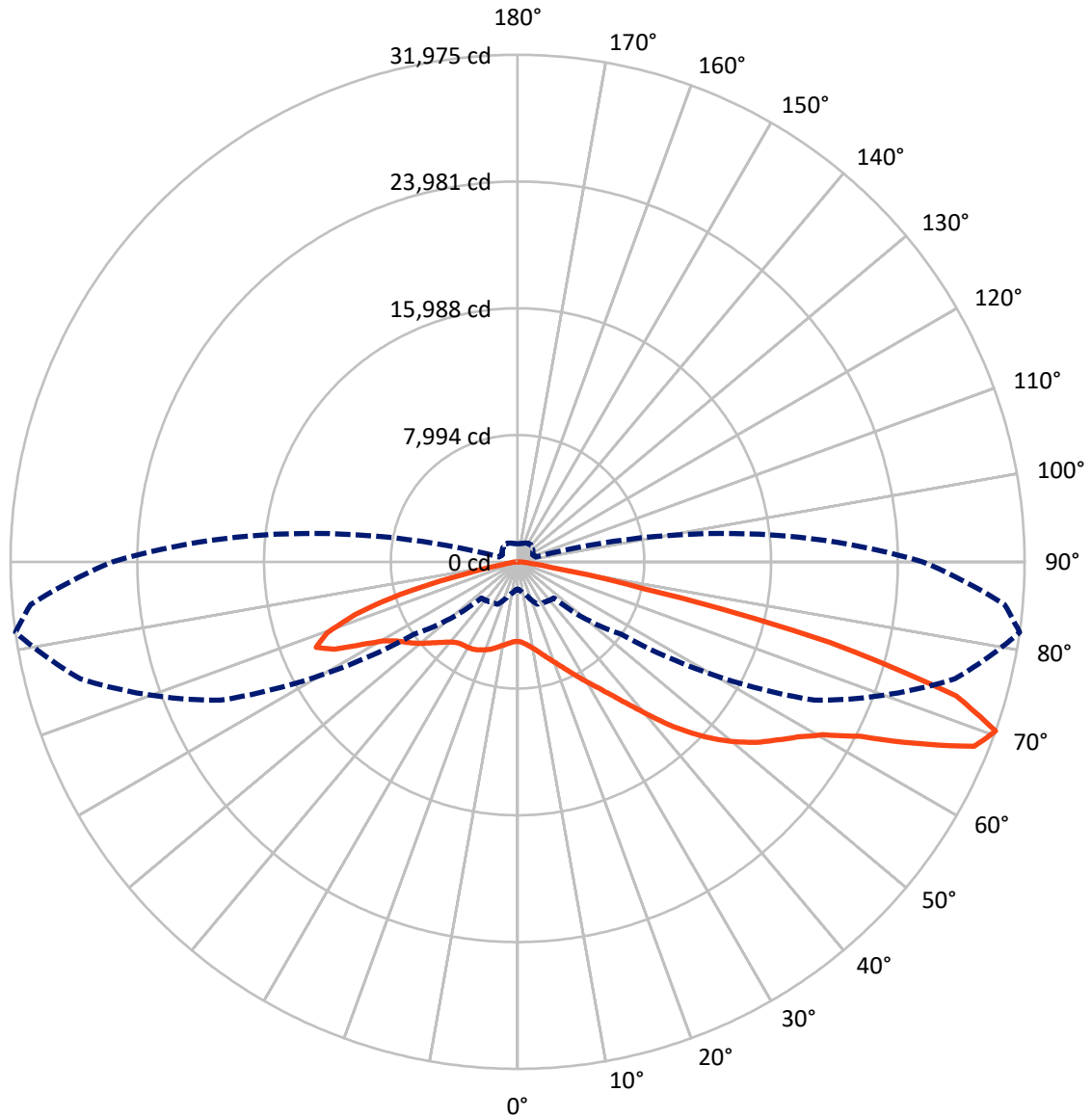
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8435.2 | 0.0 | 8435.2 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 25781.3 | 0.0 | 25781.3 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 34216.6 | 0.0 | 34216.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 473.7 | 1.4 |
| 10°-20° | 1360.8 | 4.0 |
| 20°-30° | 2276.5 | 6.7 |
| 30°-40° | 3556.5 | 10.4 |
| 40°-50° | 5664.2 | 16.6 |
| 50°-60° | 7882.4 | 23.0 |
| 60°-70° | 8245.4 | 24.1 |
| 70°-80° | 4309.5 | 12.6 |
| 80°-90° | 447.5 | 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° | 34216.6 | 100.0 |
| 0°-180° | 34216.6 | 100.0 |

Coefficient of Utilization

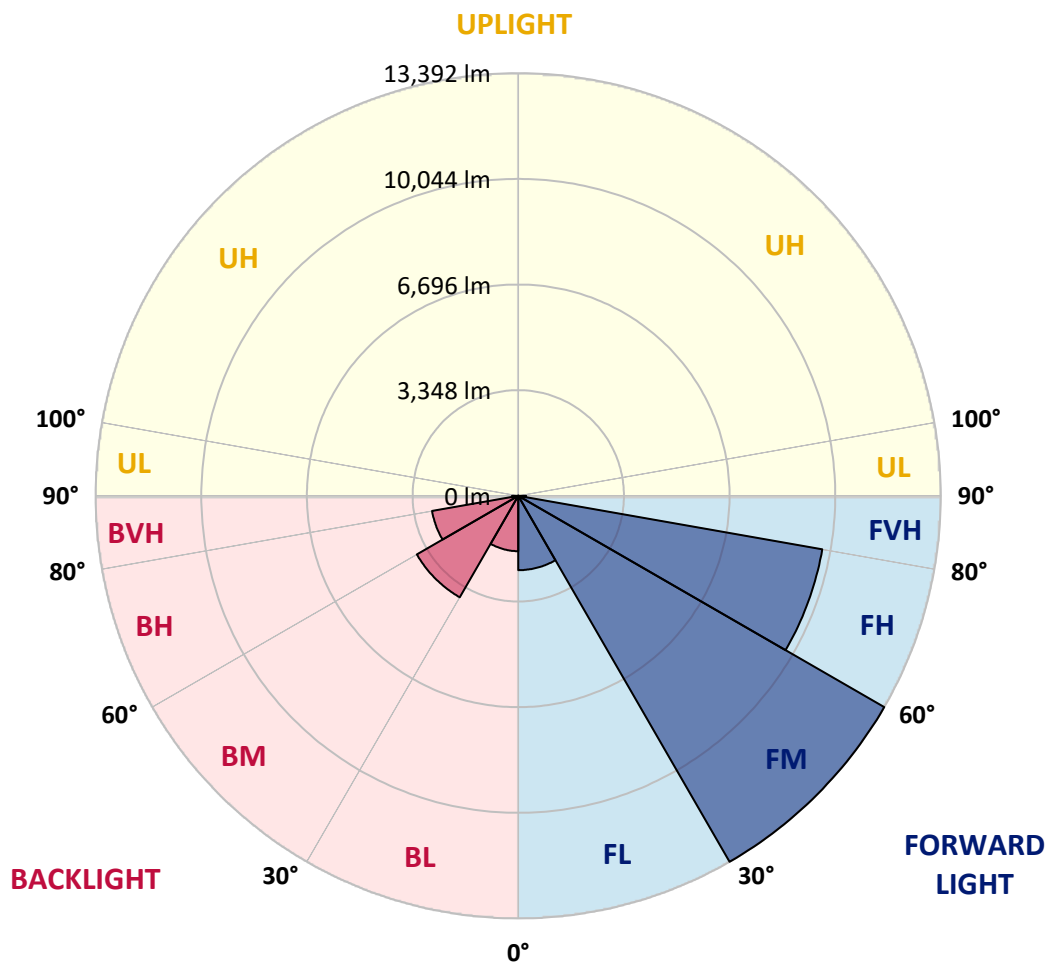


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2356.2 | 6.9 | | | |
| FM (30°-60°) | 13392.0 | 39.1 | | | |
| FH (60°-80°) | 9782.6 | 28.6 | | | G4/12000 |
| FVH (80°-90°) | 250.5 | 0.7 | | | G3/500 |
| BL (0°-30°) | 1754.8 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 3711.2 | 10.8 | B3/5000 | | |
| BH (60°-80°) | 2772.2 | 8.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 197.0 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5016.6 | 5016.6 | 5016.6 | 5016.6 | 5016.6 | 5016.6 | 5016.6 | 5016.6 | 5016.6 | 5016.6 | 5016.6 |
| 2.5° | 5136.4 | 5165.5 | 5156.4 | 5147.3 | 5147.3 | 5134.6 | 5132.8 | 5114.6 | 5100.1 | 5076.5 | 5071.1 |
| 5° | 5201.8 | 5232.6 | 5229.0 | 5236.3 | 5259.9 | 5265.3 | 5270.8 | 5259.9 | 5230.8 | 5201.8 | 5189.1 |
| 7.5° | 5143.7 | 5178.2 | 5189.1 | 5232.6 | 5305.3 | 5370.6 | 5419.7 | 5439.6 | 5412.4 | 5370.6 | 5350.6 |
| 10° | 4947.6 | 4985.7 | 5023.8 | 5127.4 | 5256.2 | 5410.6 | 5541.3 | 5619.4 | 5613.9 | 5574.0 | 5539.5 |
| 12.5° | 4550.0 | 4590.0 | 4671.6 | 4873.2 | 5109.2 | 5381.6 | 5624.8 | 5788.2 | 5844.5 | 5815.4 | 5755.6 |
| 15° | 4232.2 | 4266.8 | 4328.5 | 4535.4 | 4842.3 | 5256.2 | 5655.6 | 5973.4 | 6116.9 | 6100.5 | 6027.9 |
| 17.5° | 4223.1 | 4237.7 | 4275.8 | 4373.9 | 4609.8 | 5060.1 | 5622.9 | 6155.0 | 6429.1 | 6427.4 | 6336.5 |
| 20° | 4382.9 | 4388.3 | 4410.2 | 4430.2 | 4564.5 | 4911.3 | 5539.5 | 6305.7 | 6779.6 | 6779.6 | 6681.5 |
| 22.5° | 4604.4 | 4600.8 | 4622.5 | 4604.4 | 4669.8 | 4898.6 | 5486.8 | 6438.2 | 7169.9 | 7199.0 | 7075.5 |
| 25° | 4936.7 | 4918.6 | 4913.1 | 4871.3 | 4884.0 | 5016.6 | 5544.9 | 6588.9 | 7632.9 | 7692.8 | 7538.5 |
| 27.5° | 5379.7 | 5350.6 | 5330.7 | 5234.5 | 5201.8 | 5259.9 | 5722.9 | 6770.4 | 8148.5 | 8252.1 | 8055.9 |
| 30° | 5957.1 | 5904.4 | 5875.4 | 5708.3 | 5590.3 | 5599.4 | 5991.5 | 7011.9 | 8687.8 | 8854.8 | 8606.1 |
| 32.5° | 6745.0 | 6663.3 | 6585.3 | 6311.1 | 6095.1 | 6024.2 | 6338.4 | 7346.1 | 9272.4 | 9539.3 | 9219.8 |
| 35° | 7627.4 | 7562.0 | 7478.6 | 7055.5 | 6723.3 | 6559.9 | 6806.8 | 7812.7 | 9956.8 | 10380.0 | 9964.1 |
| 37.5° | 8477.2 | 8420.9 | 8460.9 | 7890.8 | 7462.2 | 7224.4 | 7420.5 | 8439.0 | 10801.1 | 11425.8 | 10897.4 |
| 40° | 9355.9 | 9312.3 | 9317.8 | 8773.1 | 8273.8 | 8006.9 | 8164.8 | 9225.2 | 11768.8 | 12669.4 | 12019.5 |
| 42.5° | 10311.0 | 10278.3 | 10169.3 | 9686.4 | 9125.4 | 8876.6 | 9021.8 | 10133.0 | 12807.4 | 14085.7 | 13250.5 |
| 45° | 11380.4 | 11360.4 | 11258.7 | 10704.9 | 10062.2 | 9782.6 | 9978.7 | 11135.2 | 13851.4 | 15418.3 | 14486.8 |
| 47.5° | 12304.5 | 12320.8 | 12308.1 | 11841.5 | 11175.2 | 10764.9 | 10999.1 | 12181.0 | 14822.7 | 16671.1 | 15672.5 |
| 50° | 12749.4 | 12834.6 | 12959.9 | 12814.7 | 12400.8 | 11983.2 | 12028.5 | 13190.5 | 15748.7 | 17845.8 | 16809.1 |
| 52.5° | 12516.9 | 12678.5 | 13019.9 | 13252.2 | 13412.0 | 13324.9 | 13203.2 | 14192.8 | 16620.3 | 18906.1 | 17883.9 |
| 55° | 11650.9 | 11877.8 | 12444.3 | 13005.3 | 13820.6 | 14454.2 | 14613.9 | 15303.9 | 17470.0 | 19839.4 | 18900.7 |
| 57.5° | 10073.1 | 10441.7 | 10950.1 | 12084.9 | 13457.4 | 15000.7 | 16259.0 | 16845.4 | 18370.5 | 20836.1 | 19964.6 |
| 60° | 7367.8 | 7861.6 | 8493.5 | 10182.0 | 12186.4 | 14708.3 | 17658.8 | 19212.9 | 19650.5 | 22127.0 | 21349.9 |
| 62.5° | 4715.2 | 5020.2 | 5601.2 | 7191.7 | 9495.7 | 13210.5 | 18087.3 | 22172.4 | 21820.2 | 24244.0 | 23427.0 |
| 65° | 3228.1 | 3424.3 | 3956.3 | 4849.6 | 6138.6 | 9833.4 | 16939.8 | 24391.1 | 25266.2 | 27599.4 | 26978.4 |
| 67.5° | 2345.8 | 2494.6 | 2948.6 | 3731.1 | 3999.9 | 5819.1 | 13145.1 | 24289.4 | 28616.1 | 31056.3 | 30090.4 |
| 70° | 1710.3 | 1815.6 | 2196.9 | 2948.6 | 3077.5 | 3237.3 | 7963.3 | 20647.3 | 28543.5 | 31975.0 | 30818.5 |
| 72.5° | 1267.3 | 1340.0 | 1595.9 | 2287.7 | 2491.1 | 2186.0 | 3941.7 | 15006.1 | 24527.3 | 28921.1 | 27993.4 |
| 75° | 916.9 | 971.4 | 1160.2 | 1750.3 | 1993.5 | 1664.9 | 1966.4 | 8769.5 | 17108.7 | 20344.1 | 20507.5 |
| 77.5° | 700.8 | 742.6 | 866.0 | 1281.9 | 1595.9 | 1249.2 | 1220.1 | 4034.3 | 8112.3 | 8152.1 | 8609.7 |
| 80° | 562.8 | 590.1 | 657.2 | 902.4 | 1223.7 | 935.0 | 795.2 | 1628.6 | 2563.6 | 2169.7 | 2276.8 |
| 82.5° | 414.0 | 459.3 | 555.6 | 633.7 | 875.1 | 644.5 | 484.7 | 822.5 | 975.0 | 838.9 | 846.0 |
| 85° | 236.1 | 266.9 | 335.9 | 453.9 | 559.2 | 394.0 | 277.8 | 364.9 | 453.9 | 372.2 | 332.3 |
| 87.5° | 83.5 | 109.0 | 118.0 | 177.9 | 243.3 | 163.4 | 107.1 | 105.3 | 148.9 | 110.8 | 92.6 |
| 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° | 5016.6 | 5016.6 | 5016.6 | 5016.6 | 5016.6 | 5016.6 | 5016.6 | 5016.6 | 5016.6 | 5016.6 | 5016.6 |
| 2.5° | 5052.8 | 5043.8 | 5007.5 | 4958.4 | 4907.6 | 4858.6 | 4842.3 | 4807.8 | 4784.2 | 4771.5 | 4786.0 |
| 5° | 5154.5 | 5125.5 | 5040.1 | 4931.3 | 4816.9 | 4693.4 | 4606.2 | 4526.4 | 4468.3 | 4413.8 | 4435.6 |
| 7.5° | 5299.8 | 5249.0 | 5101.9 | 4911.3 | 4707.9 | 4502.7 | 4350.2 | 4234.1 | 4156.0 | 4105.1 | 4116.0 |
| 10° | 5468.7 | 5390.6 | 5165.5 | 4880.4 | 4566.3 | 4272.2 | 4092.4 | 3992.6 | 3943.6 | 3916.3 | 3923.6 |
| 12.5° | 5662.9 | 5552.2 | 5230.8 | 4809.6 | 4350.2 | 4014.3 | 3890.9 | 3861.8 | 3863.6 | 3865.5 | 3869.1 |
| 15° | 5902.6 | 5748.3 | 5283.5 | 4655.2 | 4068.8 | 3816.5 | 3794.7 | 3841.9 | 3890.9 | 3914.5 | 3912.6 |
| 17.5° | 6173.2 | 5955.2 | 5292.6 | 4401.0 | 3792.8 | 3689.4 | 3758.4 | 3860.0 | 3934.5 | 3967.2 | 3974.4 |
| 20° | 6463.6 | 6165.9 | 5227.2 | 4041.6 | 3565.9 | 3585.9 | 3709.4 | 3840.1 | 3921.8 | 3963.5 | 3974.4 |
| 22.5° | 6795.9 | 6391.0 | 5071.1 | 3664.0 | 3380.7 | 3473.3 | 3618.6 | 3745.7 | 3830.9 | 3872.8 | 3883.6 |
| 25° | 7175.3 | 6643.3 | 4825.9 | 3346.2 | 3221.0 | 3346.2 | 3491.5 | 3596.7 | 3665.7 | 3703.8 | 3714.8 |
| 27.5° | 7596.6 | 6906.7 | 4499.1 | 3093.9 | 3081.1 | 3215.4 | 3335.4 | 3417.0 | 3453.3 | 3482.3 | 3493.3 |
| 30° | 8019.6 | 7146.3 | 4103.3 | 2903.2 | 2959.5 | 3086.6 | 3171.9 | 3208.2 | 3219.1 | 3224.5 | 3237.3 |
| 32.5° | 8477.2 | 7353.2 | 3687.5 | 2745.3 | 2843.2 | 2961.3 | 3012.2 | 3028.5 | 2977.6 | 2943.1 | 2954.0 |
| 35° | 9031.0 | 7574.7 | 3280.8 | 2619.9 | 2728.9 | 2830.5 | 2846.9 | 2832.4 | 2772.4 | 2701.7 | 2705.3 |
| 37.5° | 9715.5 | 7850.8 | 2955.8 | 2531.0 | 2621.7 | 2689.0 | 2669.0 | 2665.3 | 2670.7 | 2587.3 | 2592.7 |
| 40° | 10554.2 | 8210.2 | 2718.0 | 2461.9 | 2534.6 | 2549.2 | 2492.9 | 2523.8 | 2550.9 | 2423.8 | 2427.5 |
| 42.5° | 11485.6 | 8644.2 | 2567.3 | 2414.8 | 2461.9 | 2427.5 | 2340.4 | 2374.8 | 2371.2 | 2204.2 | 2202.3 |
| 45° | 12435.2 | 9116.2 | 2514.6 | 2380.3 | 2394.8 | 2325.8 | 2229.6 | 2238.7 | 2162.4 | 2011.7 | 2017.2 |
| 47.5° | 13379.3 | 9622.8 | 2547.3 | 2351.2 | 2311.3 | 2233.3 | 2158.8 | 2118.9 | 2006.2 | 1893.7 | 1893.7 |
| 50° | 14305.3 | 10154.8 | 2667.2 | 2293.1 | 2196.9 | 2151.5 | 2097.0 | 2026.2 | 1906.4 | 1810.2 | 1802.9 |
| 52.5° | 15164.2 | 10690.4 | 2801.5 | 2196.9 | 2053.5 | 2080.8 | 2046.2 | 1964.5 | 1846.5 | 1748.4 | 1750.3 |
| 55° | 15977.5 | 11226.0 | 2854.2 | 2064.4 | 1919.1 | 2018.9 | 1999.0 | 1848.3 | 1706.7 | 1626.8 | 1619.5 |
| 57.5° | 16863.5 | 11870.5 | 2796.1 | 1895.5 | 1810.2 | 1948.2 | 1872.0 | 1704.9 | 1623.2 | 1563.2 | 1557.8 |
| 60° | 18090.9 | 12881.9 | 2670.7 | 1686.7 | 1706.7 | 1842.8 | 1712.2 | 1643.2 | 1554.2 | 1487.0 | 1483.4 |
| 62.5° | 20129.9 | 14768.3 | 2469.2 | 1479.7 | 1585.1 | 1686.7 | 1635.9 | 1566.9 | 1476.1 | 1410.7 | 1410.7 |
| 65° | 23143.8 | 17390.0 | 2089.8 | 1318.1 | 1448.8 | 1534.2 | 1554.2 | 1485.2 | 1390.7 | 1321.7 | 1325.4 |
| 67.5° | 25685.7 | 19035.1 | 1581.4 | 1183.8 | 1309.0 | 1410.7 | 1467.0 | 1399.8 | 1300.0 | 1232.8 | 1234.6 |
| 70° | 25545.9 | 17840.3 | 1207.3 | 1051.2 | 1185.6 | 1289.1 | 1361.7 | 1309.0 | 1201.9 | 1138.4 | 1143.8 |
| 72.5° | 22689.9 | 14924.4 | 976.8 | 916.9 | 1060.4 | 1162.0 | 1249.2 | 1209.2 | 1100.2 | 1038.5 | 1038.5 |
| 75° | 16669.3 | 10594.2 | 780.7 | 780.7 | 904.2 | 1029.5 | 1125.7 | 1100.2 | 1000.4 | 956.8 | 944.1 |
| 77.5° | 7026.5 | 4444.6 | 611.8 | 648.2 | 751.6 | 884.2 | 1004.1 | 1013.1 | 926.0 | 980.4 | 889.7 |
| 80° | 1868.3 | 1225.6 | 466.6 | 510.1 | 590.1 | 729.9 | 873.3 | 869.7 | 775.3 | 724.5 | 673.6 |
| 82.5° | 711.8 | 483.0 | 332.3 | 359.5 | 426.7 | 559.2 | 691.8 | 713.5 | 619.1 | 535.6 | 535.6 |
| 85° | 274.2 | 206.9 | 205.2 | 216.1 | 248.8 | 370.4 | 522.9 | 541.1 | 466.6 | 395.9 | 408.6 |
| 87.5° | 70.8 | 61.7 | 76.3 | 72.7 | 114.4 | 197.9 | 299.6 | 310.5 | 285.1 | 165.2 | 236.1 |
| 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)