

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: P966649

Luminaire Tested: **NVN-SB4C-730-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966649
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-SB4C-730-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30483.5 lumens
Efficiency: N/A
Efficacy: 151.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

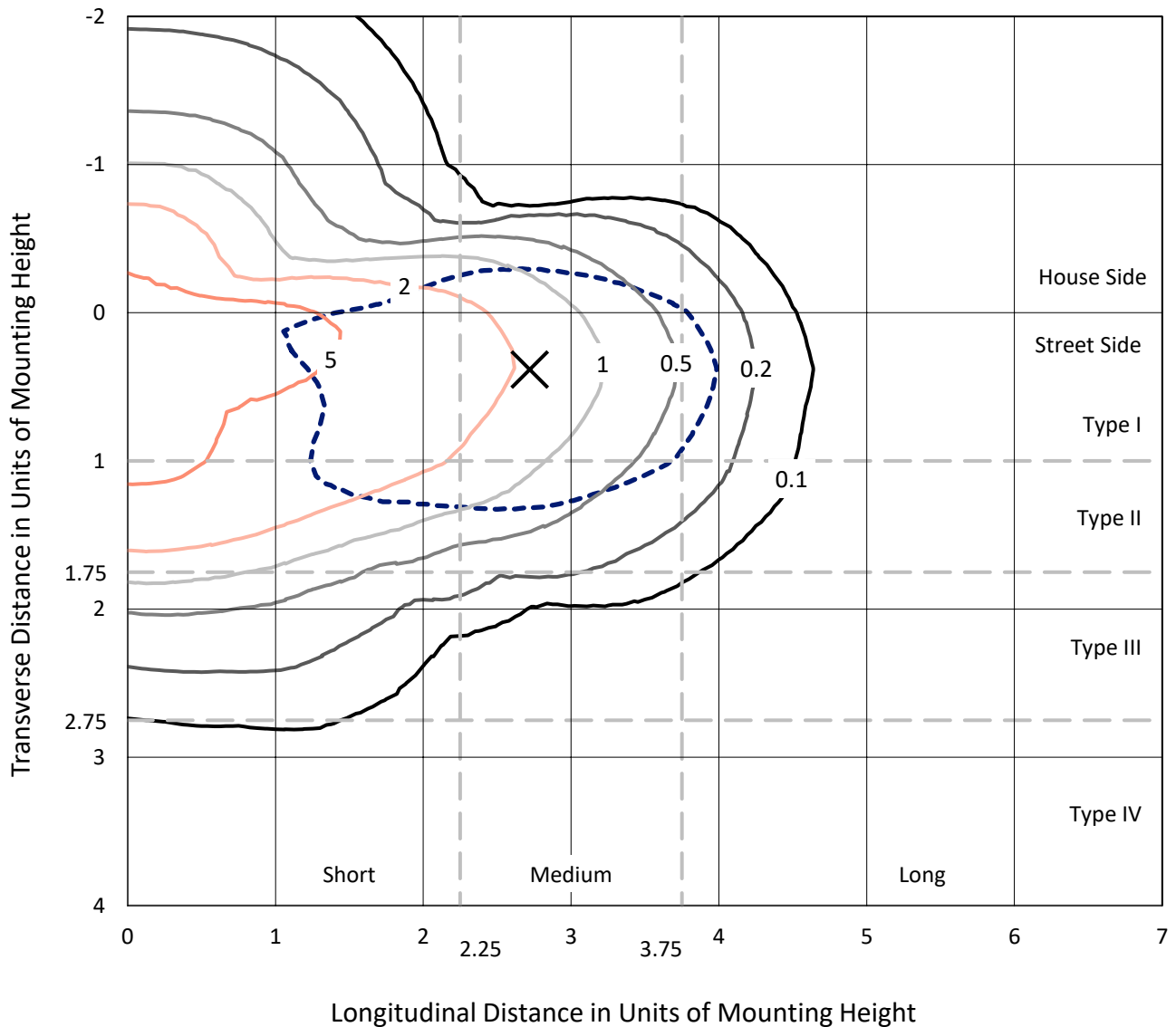
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

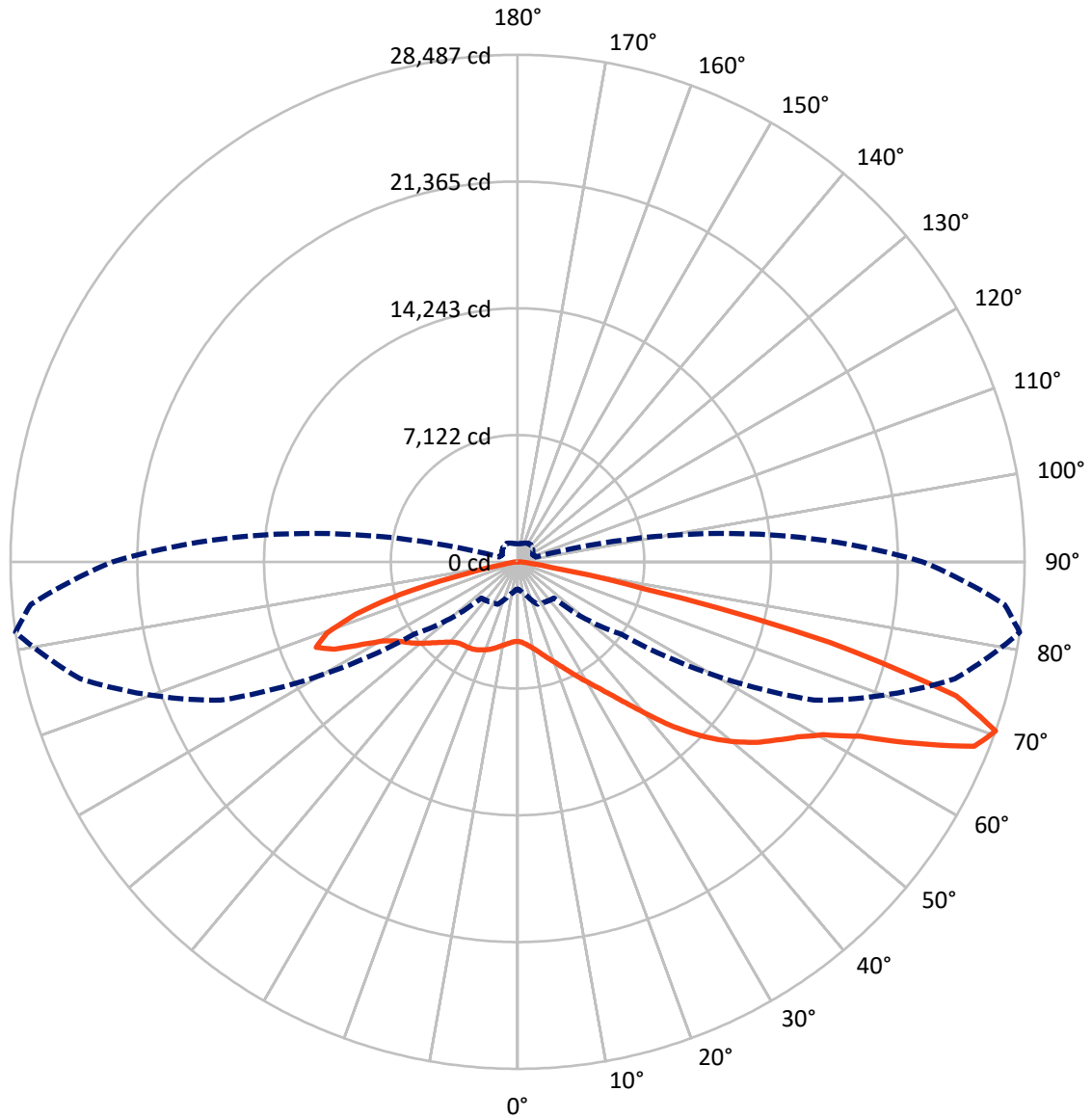
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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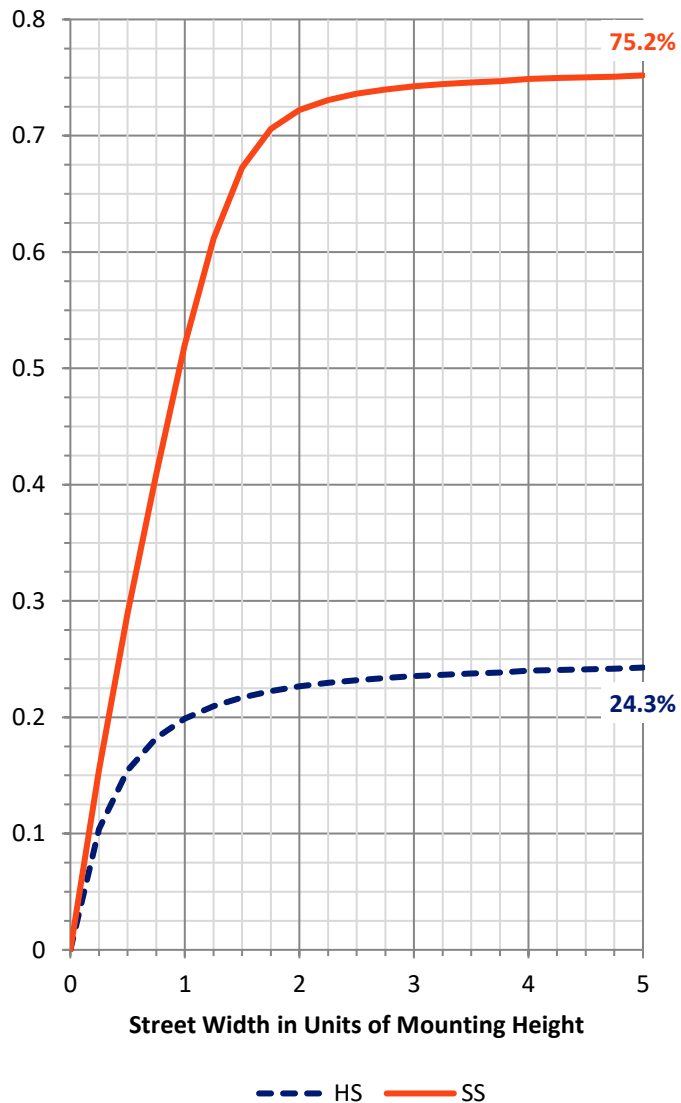
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7514.9 | 0.0 | 7514.9 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 22968.6 | 0.0 | 22968.6 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 30483.5 | 0.0 | 30483.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 422.0 | 1.4 |
| 10°-20° | 1212.4 | 4.0 |
| 20°-30° | 2028.2 | 6.7 |
| 30°-40° | 3168.5 | 10.4 |
| 40°-50° | 5046.2 | 16.6 |
| 50°-60° | 7022.5 | 23.0 |
| 60°-70° | 7345.8 | 24.1 |
| 70°-80° | 3839.3 | 12.6 |
| 80°-90° | 398.7 | 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° | 30483.5 | 100.0 |
| 0°-180° | 30483.5 | 100.0 |

Coefficient of Utilization

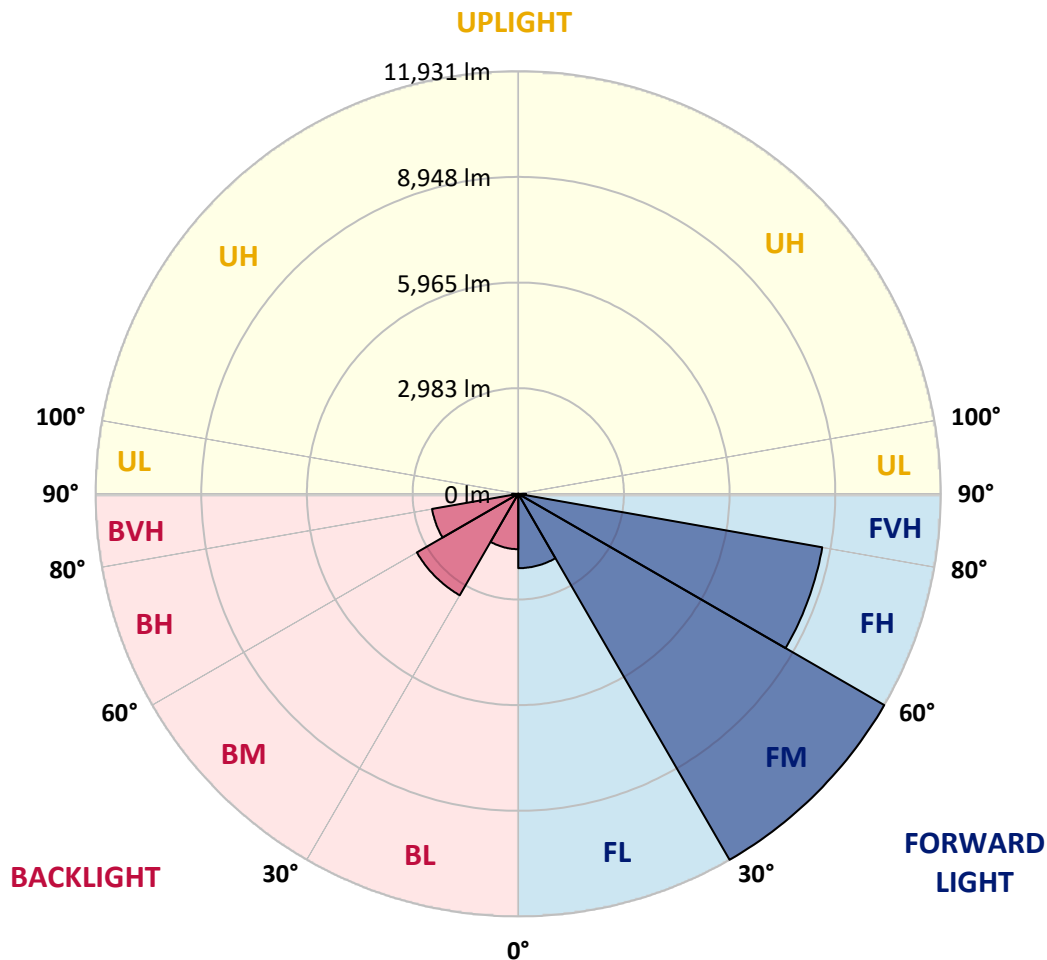


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2099.1 | 6.9 | | | |
| FM (30°-60°) | 11930.9 | 39.1 | | | |
| FH (60°-80°) | 8715.3 | 28.6 | | | G4/12000 |
| FVH (80°-90°) | 223.2 | 0.7 | | | G2/225 |
| BL (0°-30°) | 1563.4 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 3306.3 | 10.8 | B3/5000 | | |
| BH (60°-80°) | 2469.8 | 8.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 175.5 | 0.6 | | | 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 II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 |
| 2.5° | 4576.0 | 4601.9 | 4593.8 | 4585.7 | 4585.7 | 4574.4 | 4572.8 | 4556.6 | 4543.6 | 4522.6 | 4517.8 |
| 5° | 4634.2 | 4661.7 | 4658.5 | 4665.0 | 4686.0 | 4690.9 | 4695.7 | 4686.0 | 4660.2 | 4634.2 | 4623.0 |
| 7.5° | 4582.5 | 4613.2 | 4623.0 | 4661.7 | 4726.5 | 4784.7 | 4828.4 | 4846.2 | 4821.9 | 4784.7 | 4766.9 |
| 10° | 4407.8 | 4441.7 | 4475.8 | 4567.9 | 4682.8 | 4820.3 | 4936.7 | 5006.3 | 5001.4 | 4965.8 | 4935.1 |
| 12.5° | 4053.6 | 4089.1 | 4161.9 | 4341.5 | 4551.7 | 4794.4 | 5011.1 | 5156.7 | 5206.9 | 5181.0 | 5127.6 |
| 15° | 3770.5 | 3801.2 | 3856.3 | 4040.7 | 4314.0 | 4682.8 | 5038.6 | 5321.7 | 5449.5 | 5435.0 | 5370.3 |
| 17.5° | 3762.4 | 3775.4 | 3809.3 | 3896.6 | 4107.0 | 4508.1 | 5009.5 | 5483.4 | 5727.7 | 5726.1 | 5645.2 |
| 20° | 3904.7 | 3909.6 | 3929.0 | 3946.8 | 4066.5 | 4375.4 | 4935.1 | 5617.7 | 6039.9 | 6039.9 | 5952.6 |
| 22.5° | 4102.0 | 4098.9 | 4118.2 | 4102.0 | 4160.3 | 4364.1 | 4888.2 | 5735.8 | 6387.7 | 6413.5 | 6303.5 |
| 25° | 4398.1 | 4381.9 | 4377.1 | 4339.8 | 4351.2 | 4469.3 | 4940.0 | 5870.1 | 6800.2 | 6853.6 | 6716.0 |
| 27.5° | 4792.8 | 4766.9 | 4749.1 | 4663.3 | 4634.2 | 4686.0 | 5098.5 | 6031.8 | 7259.6 | 7351.7 | 7177.0 |
| 30° | 5307.1 | 5260.2 | 5234.4 | 5085.5 | 4980.4 | 4988.5 | 5337.9 | 6247.0 | 7739.9 | 7888.7 | 7667.1 |
| 32.5° | 6009.2 | 5936.4 | 5866.8 | 5622.5 | 5430.0 | 5367.0 | 5646.8 | 6544.5 | 8260.8 | 8498.6 | 8213.8 |
| 35° | 6795.2 | 6737.0 | 6662.6 | 6285.7 | 5989.8 | 5844.1 | 6064.2 | 6960.3 | 8870.6 | 9247.4 | 8877.0 |
| 37.5° | 7552.3 | 7502.2 | 7537.7 | 7029.9 | 6648.0 | 6436.2 | 6610.8 | 7518.4 | 9622.7 | 10179.2 | 9708.5 |
| 40° | 8335.2 | 8296.3 | 8301.2 | 7815.9 | 7371.1 | 7133.4 | 7274.1 | 8218.8 | 10484.9 | 11287.2 | 10708.1 |
| 42.5° | 9186.0 | 9156.9 | 9059.9 | 8629.6 | 8129.8 | 7908.2 | 8037.5 | 9027.5 | 11410.1 | 12548.9 | 11804.8 |
| 45° | 10138.8 | 10121.0 | 10030.3 | 9537.0 | 8964.4 | 8715.3 | 8890.0 | 9920.4 | 12340.2 | 13736.1 | 12906.4 |
| 47.5° | 10962.1 | 10976.6 | 10965.3 | 10549.6 | 9955.9 | 9590.4 | 9799.1 | 10852.1 | 13205.6 | 14852.2 | 13962.7 |
| 50° | 11358.3 | 11434.4 | 11546.0 | 11416.6 | 11047.8 | 10675.8 | 10716.2 | 11751.4 | 14030.5 | 15898.8 | 14975.1 |
| 52.5° | 11151.3 | 11295.3 | 11599.4 | 11806.5 | 11948.7 | 11871.1 | 11762.8 | 12644.3 | 14806.9 | 16843.4 | 15932.8 |
| 55° | 10379.8 | 10581.9 | 11086.6 | 11586.4 | 12312.7 | 12877.3 | 13019.6 | 13634.2 | 15564.0 | 17674.9 | 16838.6 |
| 57.5° | 8974.1 | 9302.5 | 9755.3 | 10766.4 | 11989.2 | 13364.2 | 14485.1 | 15007.5 | 16366.3 | 18562.9 | 17786.5 |
| 60° | 6564.0 | 7003.9 | 7566.9 | 9071.1 | 10856.9 | 13103.7 | 15732.2 | 17116.8 | 17506.6 | 19713.0 | 19020.6 |
| 62.5° | 4200.8 | 4472.5 | 4990.1 | 6407.1 | 8459.7 | 11769.3 | 16113.9 | 19753.4 | 19439.6 | 21599.0 | 20871.2 |
| 65° | 2875.9 | 3050.7 | 3524.7 | 4320.5 | 5468.9 | 8760.6 | 15091.7 | 21730.0 | 22509.7 | 24588.2 | 24035.0 |
| 67.5° | 2089.9 | 2222.5 | 2626.9 | 3324.1 | 3563.4 | 5184.2 | 11711.0 | 21639.5 | 25494.0 | 27668.0 | 26807.4 |
| 70° | 1523.8 | 1617.6 | 1957.2 | 2626.9 | 2741.8 | 2884.0 | 7094.5 | 18394.6 | 25429.3 | 28486.5 | 27456.2 |
| 72.5° | 1129.0 | 1193.7 | 1421.8 | 2038.1 | 2219.2 | 1947.5 | 3511.6 | 13369.0 | 21851.4 | 25765.8 | 24939.3 |
| 75° | 816.8 | 865.4 | 1033.6 | 1559.3 | 1776.0 | 1483.3 | 1751.8 | 7812.8 | 15242.1 | 18124.6 | 18270.1 |
| 77.5° | 624.3 | 661.5 | 771.5 | 1142.0 | 1421.8 | 1112.8 | 1087.0 | 3594.2 | 7227.2 | 7262.7 | 7670.4 |
| 80° | 501.4 | 525.7 | 585.6 | 803.9 | 1090.2 | 833.0 | 708.5 | 1450.9 | 2284.0 | 1932.9 | 2028.4 |
| 82.5° | 368.8 | 409.3 | 495.0 | 564.6 | 779.6 | 574.2 | 431.8 | 732.8 | 868.6 | 747.3 | 753.8 |
| 85° | 210.3 | 237.8 | 299.2 | 404.4 | 498.3 | 351.0 | 247.4 | 325.1 | 404.4 | 331.6 | 296.0 |
| 87.5° | 74.4 | 97.1 | 105.2 | 158.6 | 216.8 | 145.5 | 95.4 | 93.8 | 132.6 | 98.7 | 82.5 |
| 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° | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 |
| 2.5° | 4501.6 | 4493.5 | 4461.2 | 4417.5 | 4372.2 | 4328.6 | 4314.0 | 4283.3 | 4262.3 | 4250.9 | 4263.8 |
| 5° | 4592.2 | 4566.3 | 4490.3 | 4393.3 | 4291.4 | 4181.4 | 4103.7 | 4032.6 | 3980.8 | 3932.2 | 3951.7 |
| 7.5° | 4721.6 | 4676.4 | 4545.3 | 4375.4 | 4194.3 | 4011.5 | 3875.6 | 3772.1 | 3702.5 | 3657.3 | 3666.9 |
| 10° | 4872.0 | 4802.4 | 4601.9 | 4347.9 | 4068.1 | 3806.0 | 3645.9 | 3557.0 | 3513.3 | 3489.0 | 3495.5 |
| 12.5° | 5045.2 | 4946.4 | 4660.2 | 4284.9 | 3875.6 | 3576.4 | 3466.3 | 3440.5 | 3442.2 | 3443.7 | 3447.0 |
| 15° | 5258.7 | 5121.1 | 4707.0 | 4147.4 | 3624.9 | 3400.0 | 3380.7 | 3422.7 | 3466.3 | 3487.5 | 3485.8 |
| 17.5° | 5499.6 | 5305.5 | 4715.1 | 3920.9 | 3379.0 | 3286.9 | 3348.3 | 3438.9 | 3505.2 | 3534.3 | 3540.8 |
| 20° | 5758.4 | 5493.2 | 4656.9 | 3600.6 | 3176.9 | 3194.6 | 3304.6 | 3421.1 | 3493.9 | 3531.1 | 3540.8 |
| 22.5° | 6054.5 | 5693.8 | 4517.8 | 3264.2 | 3011.9 | 3094.4 | 3223.7 | 3337.0 | 3413.0 | 3450.3 | 3459.9 |
| 25° | 6392.5 | 5918.6 | 4299.5 | 2981.1 | 2869.5 | 2981.1 | 3110.6 | 3204.4 | 3265.9 | 3299.8 | 3309.5 |
| 27.5° | 6767.8 | 6153.1 | 4008.3 | 2756.3 | 2745.0 | 2864.7 | 2971.4 | 3044.2 | 3076.5 | 3102.5 | 3112.1 |
| 30° | 7144.7 | 6366.7 | 3655.7 | 2586.5 | 2636.6 | 2749.8 | 2825.8 | 2858.2 | 2867.8 | 2872.8 | 2884.0 |
| 32.5° | 7552.3 | 6551.1 | 3285.2 | 2445.8 | 2533.1 | 2638.2 | 2683.4 | 2698.1 | 2652.8 | 2622.1 | 2631.7 |
| 35° | 8045.6 | 6748.4 | 2922.9 | 2334.1 | 2431.2 | 2521.7 | 2536.3 | 2523.3 | 2469.9 | 2406.9 | 2410.2 |
| 37.5° | 8655.4 | 6994.3 | 2633.3 | 2254.9 | 2335.8 | 2395.5 | 2377.8 | 2374.5 | 2379.4 | 2305.0 | 2309.8 |
| 40° | 9402.7 | 7314.5 | 2421.5 | 2193.4 | 2258.1 | 2271.0 | 2220.9 | 2248.3 | 2272.6 | 2159.4 | 2162.6 |
| 42.5° | 10232.6 | 7701.1 | 2287.2 | 2151.4 | 2193.4 | 2162.6 | 2085.1 | 2115.7 | 2112.5 | 1963.7 | 1962.1 |
| 45° | 11078.5 | 8121.7 | 2240.3 | 2120.6 | 2133.5 | 2072.0 | 1986.3 | 1994.4 | 1926.5 | 1792.2 | 1797.1 |
| 47.5° | 11919.6 | 8573.0 | 2269.5 | 2094.7 | 2059.1 | 1989.5 | 1923.2 | 1887.6 | 1787.4 | 1687.0 | 1687.0 |
| 50° | 12744.6 | 9046.9 | 2376.2 | 2042.9 | 1957.2 | 1916.7 | 1868.3 | 1805.1 | 1698.4 | 1612.7 | 1606.2 |
| 52.5° | 13509.7 | 9524.1 | 2495.9 | 1957.2 | 1829.4 | 1853.7 | 1823.0 | 1750.2 | 1645.0 | 1557.7 | 1559.3 |
| 55° | 14234.4 | 10001.2 | 2542.8 | 1839.2 | 1709.7 | 1798.7 | 1780.9 | 1646.7 | 1520.5 | 1449.4 | 1442.9 |
| 57.5° | 15023.7 | 10575.4 | 2491.1 | 1688.7 | 1612.7 | 1735.6 | 1667.7 | 1518.8 | 1446.1 | 1392.7 | 1387.8 |
| 60° | 16117.2 | 11476.4 | 2379.4 | 1502.6 | 1520.5 | 1641.8 | 1525.3 | 1463.9 | 1384.6 | 1324.8 | 1321.5 |
| 62.5° | 17933.7 | 13157.1 | 2199.9 | 1318.3 | 1412.1 | 1502.6 | 1457.4 | 1395.9 | 1315.1 | 1256.9 | 1256.9 |
| 65° | 20618.8 | 15492.8 | 1861.8 | 1174.3 | 1290.8 | 1366.8 | 1384.6 | 1323.2 | 1239.0 | 1177.5 | 1180.8 |
| 67.5° | 22883.3 | 16958.3 | 1408.9 | 1054.6 | 1166.2 | 1256.9 | 1307.0 | 1247.1 | 1158.1 | 1098.3 | 1099.9 |
| 70° | 22758.8 | 15894.0 | 1075.6 | 936.5 | 1056.3 | 1148.4 | 1213.2 | 1166.2 | 1070.8 | 1014.2 | 1019.1 |
| 72.5° | 20214.4 | 13296.2 | 870.2 | 816.8 | 944.6 | 1035.2 | 1112.8 | 1077.3 | 980.2 | 925.3 | 925.3 |
| 75° | 14850.6 | 9438.3 | 695.6 | 695.6 | 805.5 | 917.2 | 1002.9 | 980.2 | 891.2 | 852.5 | 841.1 |
| 77.5° | 6259.9 | 3959.8 | 545.1 | 577.5 | 669.6 | 787.7 | 894.5 | 902.6 | 824.9 | 873.5 | 792.6 |
| 80° | 1664.5 | 1091.8 | 415.7 | 454.5 | 525.7 | 650.3 | 778.1 | 774.8 | 690.6 | 645.4 | 600.1 |
| 82.5° | 634.1 | 430.3 | 296.0 | 320.3 | 380.2 | 498.3 | 616.3 | 635.7 | 551.6 | 477.1 | 477.1 |
| 85° | 244.3 | 184.4 | 182.8 | 192.5 | 221.6 | 329.9 | 465.9 | 482.1 | 415.7 | 352.6 | 364.0 |
| 87.5° | 63.0 | 55.0 | 68.0 | 64.7 | 101.9 | 176.3 | 266.9 | 276.6 | 254.0 | 147.2 | 210.3 |
| 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)