

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: P968211

Luminaire Tested: **NVN-SB5B-730-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5B-730-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24859.3 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

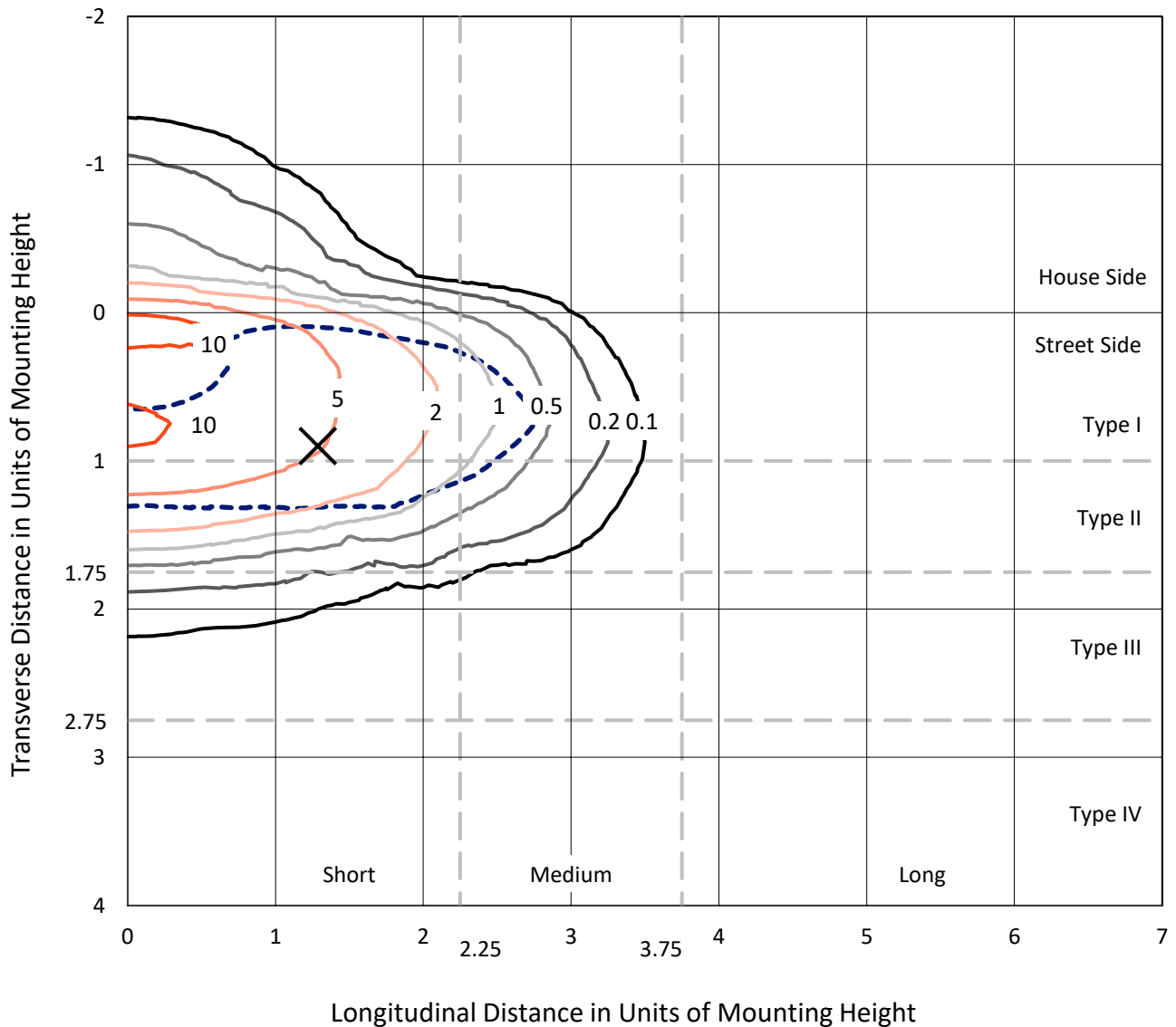
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

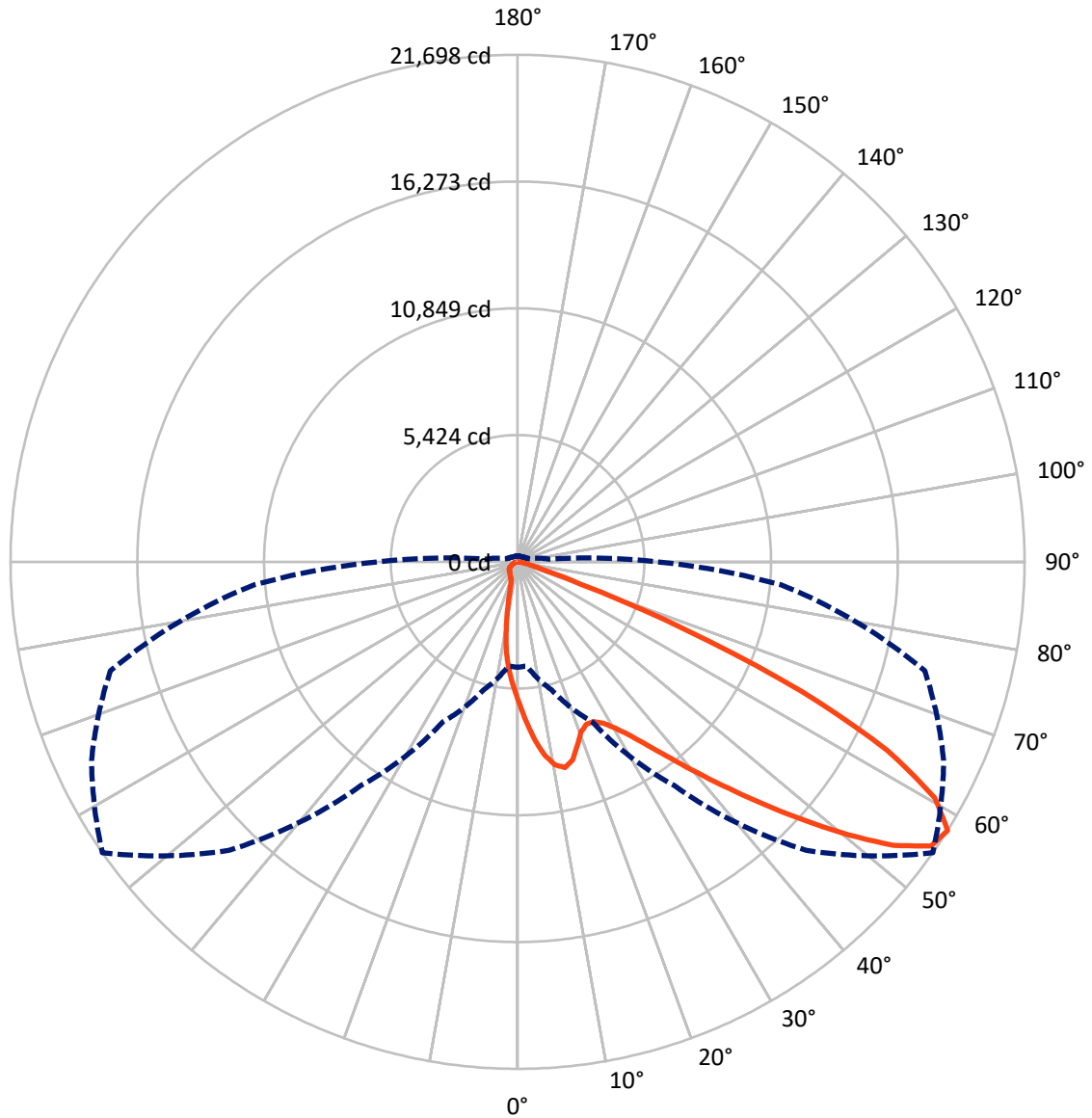
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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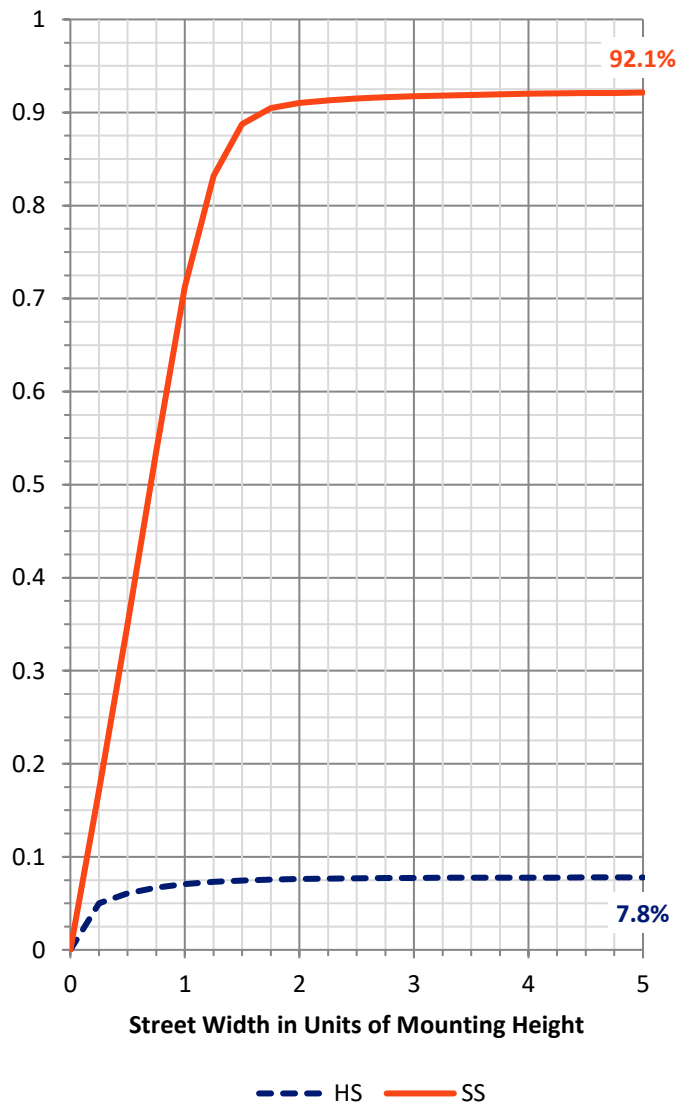
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1941.4 | 0.0 | 1941.4 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 22917.9 | 0.0 | 22917.9 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 24859.3 | 0.0 | 24859.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 557.4 | 2.2 |
| 10°-20° | 1346.4 | 5.4 |
| 20°-30° | 2154.2 | 8.7 |
| 30°-40° | 3646.0 | 14.7 |
| 40°-50° | 5986.0 | 24.1 |
| 50°-60° | 6579.1 | 26.5 |
| 60°-70° | 3773.7 | 15.2 |
| 70°-80° | 771.1 | 3.1 |
| 80°-90° | 45.5 | 0.2 |
| 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° | 24859.3 | 100.0 |
| 0°-180° | 24859.3 | 100.0 |

Coefficient of Utilization

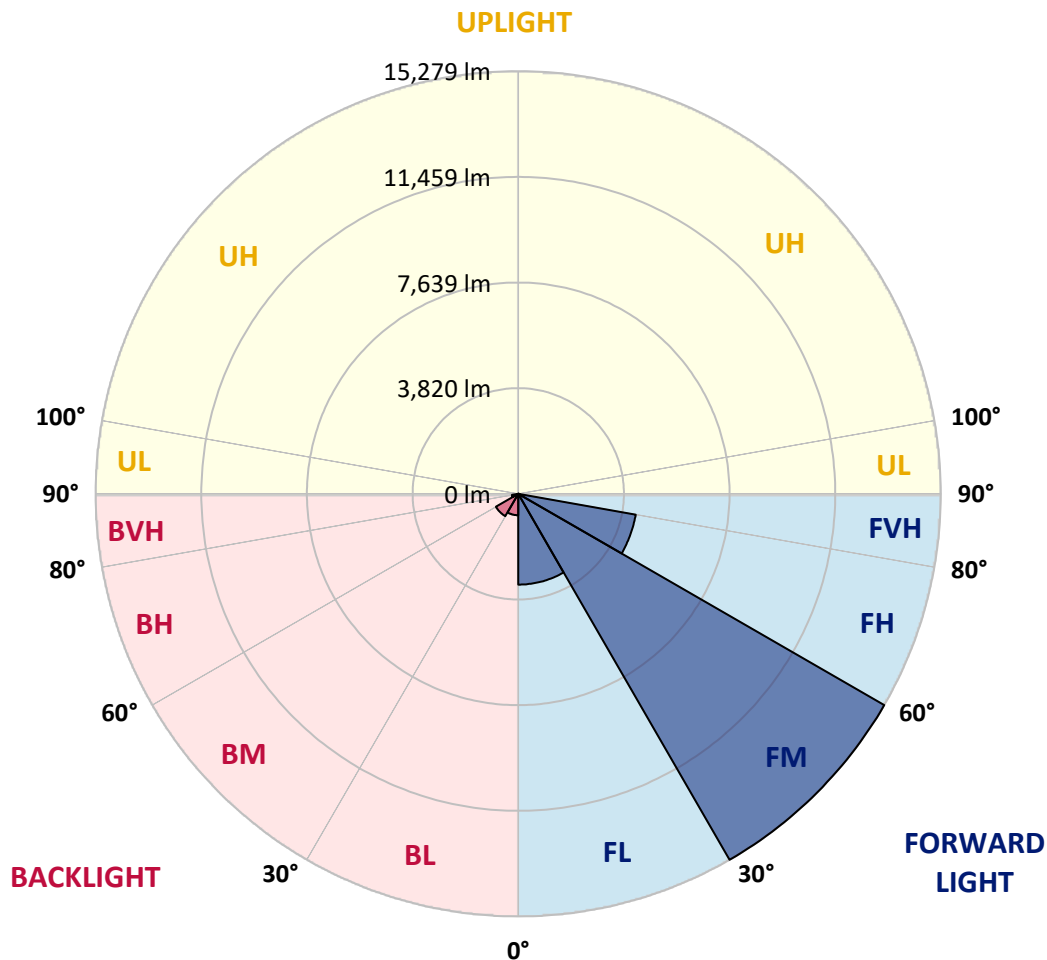


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3282.8 | 13.2 | | | |
| FM (30°-60°) | 15278.7 | 61.5 | | | |
| FH (60°-80°) | 4313.9 | 17.4 | | | G2/5000 |
| FVH (80°-90°) | 42.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 775.1 | 3.1 | B2/1000 | | |
| BM (30°-60°) | 932.4 | 3.8 | B1/1000 | | |
| BH (60°-80°) | 230.9 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2
 Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 5990.5 | 5990.5 | 5990.5 | 5990.5 | 5990.5 | 5990.5 | 5990.5 | 5990.5 | 5990.5 | 5990.5 | 5990.5 |
| 2.5° | 7432.9 | 7339.4 | 7325.6 | 7307.2 | 7129.4 | 6996.0 | 6802.9 | 6591.4 | 6353.8 | 6111.6 | 6004.2 |
| 5° | 8587.1 | 8513.6 | 8499.8 | 8413.9 | 8211.6 | 7984.7 | 7641.4 | 7207.6 | 6764.6 | 6243.4 | 6019.6 |
| 7.5° | 8811.0 | 8797.2 | 8860.0 | 8856.9 | 8829.3 | 8650.1 | 8360.3 | 7843.7 | 7178.5 | 6405.9 | 6059.5 |
| 10° | 7813.1 | 7848.3 | 8035.4 | 8199.4 | 8642.4 | 8899.9 | 8837.0 | 8410.9 | 7604.6 | 6591.4 | 6103.9 |
| 12.5° | 6904.1 | 6862.7 | 6996.0 | 7181.6 | 7696.6 | 8463.0 | 9034.8 | 8884.6 | 8092.1 | 6801.4 | 6169.8 |
| 15° | 6333.9 | 6317.0 | 6392.1 | 6477.9 | 6870.4 | 7642.9 | 8804.9 | 9269.3 | 8561.1 | 7049.7 | 6269.5 |
| 17.5° | 6151.4 | 6137.6 | 6160.7 | 6182.1 | 6436.6 | 7034.4 | 8257.6 | 9505.3 | 9010.3 | 7333.3 | 6379.8 |
| 20° | 6300.2 | 6281.7 | 6278.6 | 6261.8 | 6367.6 | 6775.4 | 7762.5 | 9522.2 | 9413.4 | 7590.8 | 6474.9 |
| 22.5° | 6733.9 | 6712.5 | 6637.4 | 6569.9 | 6579.1 | 6810.6 | 7541.7 | 9353.6 | 9716.9 | 7831.5 | 6534.7 |
| 25° | 7520.3 | 7485.1 | 7328.6 | 7101.8 | 6957.7 | 7055.8 | 7575.5 | 9131.3 | 10006.7 | 8020.0 | 6505.6 |
| 27.5° | 8504.4 | 8458.4 | 8257.6 | 7920.4 | 7590.8 | 7471.2 | 7819.2 | 8978.1 | 10247.3 | 8164.1 | 6442.6 |
| 30° | 9468.5 | 9408.8 | 9211.1 | 8949.0 | 8467.6 | 8090.5 | 8259.1 | 9045.5 | 10533.9 | 8314.3 | 6359.9 |
| 32.5° | 10509.4 | 10452.6 | 10190.6 | 9865.6 | 9467.0 | 8959.6 | 8861.5 | 9375.1 | 10885.0 | 8524.3 | 6301.7 |
| 35° | 11826.1 | 11737.3 | 11364.8 | 10921.8 | 10498.7 | 9985.1 | 9677.0 | 9943.7 | 11352.5 | 8844.7 | 6333.9 |
| 37.5° | 13325.3 | 13205.7 | 12804.1 | 12192.5 | 11640.7 | 11065.8 | 10670.4 | 10725.5 | 12037.7 | 9273.9 | 6433.5 |
| 40° | 14738.6 | 14629.8 | 14258.8 | 13682.4 | 12989.6 | 12292.1 | 11870.6 | 11747.9 | 12983.5 | 9796.6 | 6608.3 |
| 42.5° | 15586.3 | 15488.2 | 15331.8 | 15088.1 | 14504.1 | 13792.8 | 13260.9 | 12995.8 | 14102.5 | 10422.0 | 6821.3 |
| 45° | 15633.8 | 15548.0 | 15757.9 | 16041.6 | 15926.6 | 15452.9 | 14804.5 | 14318.6 | 15226.1 | 11009.1 | 7042.1 |
| 47.5° | 14873.5 | 14815.2 | 15452.9 | 16443.2 | 16936.8 | 17136.1 | 16538.2 | 15531.1 | 16153.5 | 11430.7 | 7132.5 |
| 50° | 12801.0 | 12779.6 | 14091.7 | 15909.7 | 17321.5 | 18610.6 | 18367.0 | 16659.3 | 16872.4 | 11648.3 | 7046.7 |
| 52.5° | 11099.5 | 11021.4 | 11786.3 | 14202.1 | 16762.0 | 19386.3 | 20154.3 | 17766.0 | 17375.2 | 11689.7 | 6845.9 |
| 55° | 8418.5 | 8349.5 | 9309.2 | 11344.8 | 14957.8 | 19110.4 | 21461.9 | 18908.1 | 17735.4 | 11583.9 | 6485.6 |
| 57.5° | 4515.8 | 4472.9 | 5685.5 | 7551.0 | 11692.8 | 17454.8 | 21697.9 | 20115.9 | 18038.9 | 11303.4 | 5981.3 |
| 60° | 1758.2 | 1750.5 | 2204.3 | 3663.6 | 7106.4 | 14200.6 | 20506.9 | 20841.0 | 18229.0 | 10958.6 | 5559.7 |
| 62.5° | 1063.8 | 1086.8 | 1160.4 | 1644.8 | 3139.4 | 8821.7 | 17761.4 | 20016.3 | 18356.2 | 10642.8 | 5211.8 |
| 65° | 879.9 | 881.4 | 890.6 | 1129.8 | 1503.8 | 3691.1 | 13371.3 | 17303.1 | 18041.9 | 10080.2 | 4718.2 |
| 67.5° | 754.2 | 767.9 | 803.2 | 896.8 | 1060.8 | 1618.7 | 7698.2 | 13403.5 | 16130.4 | 8771.1 | 3948.7 |
| 70° | 594.8 | 613.2 | 657.6 | 737.3 | 818.6 | 1013.2 | 2845.0 | 8918.3 | 12322.8 | 6611.2 | 2986.0 |
| 72.5° | 501.2 | 499.7 | 522.8 | 599.3 | 650.0 | 712.8 | 1094.5 | 4997.2 | 7161.6 | 3156.2 | 1477.7 |
| 75° | 387.9 | 403.1 | 432.2 | 501.2 | 531.9 | 516.6 | 593.3 | 1825.6 | 2566.1 | 956.5 | 502.8 |
| 77.5° | 303.5 | 315.8 | 341.8 | 409.3 | 439.9 | 366.3 | 341.8 | 653.0 | 824.7 | 343.4 | 226.8 |
| 80° | 136.4 | 147.2 | 233.0 | 302.0 | 358.6 | 253.0 | 185.5 | 334.2 | 366.3 | 156.3 | 115.0 |
| 82.5° | 24.5 | 41.4 | 136.4 | 159.4 | 184.0 | 164.0 | 96.6 | 173.2 | 179.4 | 62.8 | 39.9 |
| 85° | 1.5 | 3.1 | 47.6 | 58.2 | 73.6 | 53.6 | 29.1 | 69.0 | 59.8 | 21.4 | 15.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.5 | 1.5 | 7.7 | 9.2 | 12.3 | 9.2 | 7.7 | 6.1 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5990.5 | 5990.5 | 5990.5 | 5990.5 | 5990.5 | 5990.5 | 5990.5 | 5990.5 | 5990.5 | 5990.5 |
| 2.5° | 5894.0 | 5676.2 | 5464.7 | 5291.5 | 5190.3 | 5018.6 | 4905.2 | 4886.8 | 4839.3 | 4880.6 |
| 5° | 5780.5 | 5391.1 | 4997.2 | 4644.6 | 4354.9 | 3980.9 | 3701.9 | 3583.9 | 3481.2 | 3516.5 |
| 7.5° | 5726.9 | 5112.2 | 4499.0 | 3896.5 | 3277.3 | 2679.5 | 2234.9 | 2049.5 | 1908.4 | 1928.3 |
| 10° | 5654.8 | 4822.4 | 3861.3 | 2941.5 | 2112.3 | 1522.1 | 1215.5 | 1102.2 | 1039.2 | 1040.8 |
| 12.5° | 5599.6 | 4476.0 | 3120.9 | 1994.2 | 1286.1 | 971.8 | 876.8 | 849.2 | 830.9 | 832.4 |
| 15° | 5572.0 | 4068.2 | 2389.8 | 1329.0 | 919.7 | 823.2 | 800.1 | 787.9 | 775.6 | 774.1 |
| 17.5° | 5526.0 | 3614.6 | 1749.1 | 970.3 | 804.7 | 771.0 | 751.1 | 737.3 | 722.0 | 718.9 |
| 20° | 5457.0 | 3099.5 | 1278.4 | 820.1 | 754.2 | 728.2 | 700.5 | 682.1 | 663.7 | 660.7 |
| 22.5° | 5329.8 | 2555.3 | 982.6 | 758.8 | 717.4 | 688.3 | 654.6 | 633.0 | 614.7 | 611.6 |
| 25° | 5093.7 | 2044.9 | 827.8 | 720.5 | 685.2 | 650.0 | 613.2 | 584.0 | 567.1 | 564.1 |
| 27.5° | 4794.8 | 1606.5 | 751.1 | 685.2 | 643.8 | 611.6 | 570.2 | 542.6 | 527.3 | 524.3 |
| 30° | 4442.2 | 1237.1 | 706.6 | 645.3 | 594.8 | 567.1 | 530.3 | 507.4 | 498.2 | 498.2 |
| 32.5° | 4062.1 | 988.7 | 688.3 | 605.5 | 551.9 | 521.2 | 492.1 | 482.9 | 479.8 | 478.3 |
| 35° | 3705.0 | 858.4 | 679.1 | 573.3 | 513.5 | 484.4 | 472.1 | 473.7 | 479.8 | 479.8 |
| 37.5° | 3387.6 | 817.0 | 674.4 | 550.3 | 479.8 | 453.8 | 461.4 | 475.2 | 469.0 | 469.0 |
| 40° | 3101.0 | 821.6 | 671.4 | 533.4 | 452.2 | 436.9 | 452.2 | 441.5 | 426.1 | 424.7 |
| 42.5° | 2881.8 | 860.0 | 665.2 | 519.7 | 435.3 | 424.7 | 418.5 | 401.6 | 400.1 | 403.1 |
| 45° | 2722.4 | 893.7 | 663.7 | 513.5 | 417.0 | 397.0 | 389.4 | 372.5 | 403.1 | 410.8 |
| 47.5° | 2533.8 | 893.7 | 663.7 | 492.1 | 386.3 | 378.6 | 366.3 | 348.0 | 378.6 | 386.3 |
| 50° | 2290.2 | 836.9 | 637.7 | 467.5 | 361.7 | 357.1 | 335.7 | 312.7 | 306.6 | 311.2 |
| 52.5° | 1982.0 | 734.2 | 571.7 | 433.8 | 337.2 | 328.0 | 302.0 | 285.2 | 280.5 | 280.5 |
| 55° | 1631.0 | 614.7 | 482.9 | 384.8 | 311.2 | 294.3 | 275.9 | 268.2 | 263.6 | 260.6 |
| 57.5° | 1325.9 | 504.3 | 387.9 | 341.8 | 286.7 | 265.2 | 259.0 | 249.9 | 242.2 | 237.6 |
| 60° | 1088.3 | 397.0 | 320.4 | 303.5 | 262.1 | 242.2 | 240.7 | 228.4 | 208.5 | 205.4 |
| 62.5° | 840.0 | 291.2 | 269.8 | 263.6 | 237.6 | 220.8 | 217.7 | 193.1 | 162.5 | 156.3 |
| 65° | 593.3 | 226.8 | 217.7 | 231.4 | 211.6 | 196.2 | 188.5 | 151.8 | 119.5 | 115.0 |
| 67.5° | 417.0 | 190.0 | 171.7 | 202.3 | 184.0 | 164.0 | 159.4 | 128.7 | 99.6 | 96.6 |
| 70° | 297.4 | 154.8 | 141.0 | 173.2 | 147.2 | 144.1 | 134.9 | 107.3 | 81.3 | 78.2 |
| 72.5° | 210.0 | 118.1 | 108.9 | 150.3 | 101.2 | 124.1 | 110.4 | 82.8 | 61.3 | 58.2 |
| 75° | 154.8 | 84.4 | 76.7 | 87.3 | 73.6 | 93.5 | 78.2 | 55.1 | 38.3 | 36.8 |
| 77.5° | 113.5 | 53.6 | 46.0 | 42.9 | 42.9 | 58.2 | 42.9 | 23.0 | 16.9 | 15.4 |
| 80° | 79.7 | 24.5 | 21.4 | 18.3 | 16.9 | 13.8 | 6.1 | 3.1 | 1.5 | 1.5 |
| 82.5° | 47.6 | 10.8 | 10.8 | 7.7 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 10.8 | 4.6 | 4.6 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.5 | 1.5 | 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 |

(END OF REPORT)