

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: P970381

Luminaire Tested: **NVN-SB6B-740-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970381
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-SB6B-740-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 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: 31572.1 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

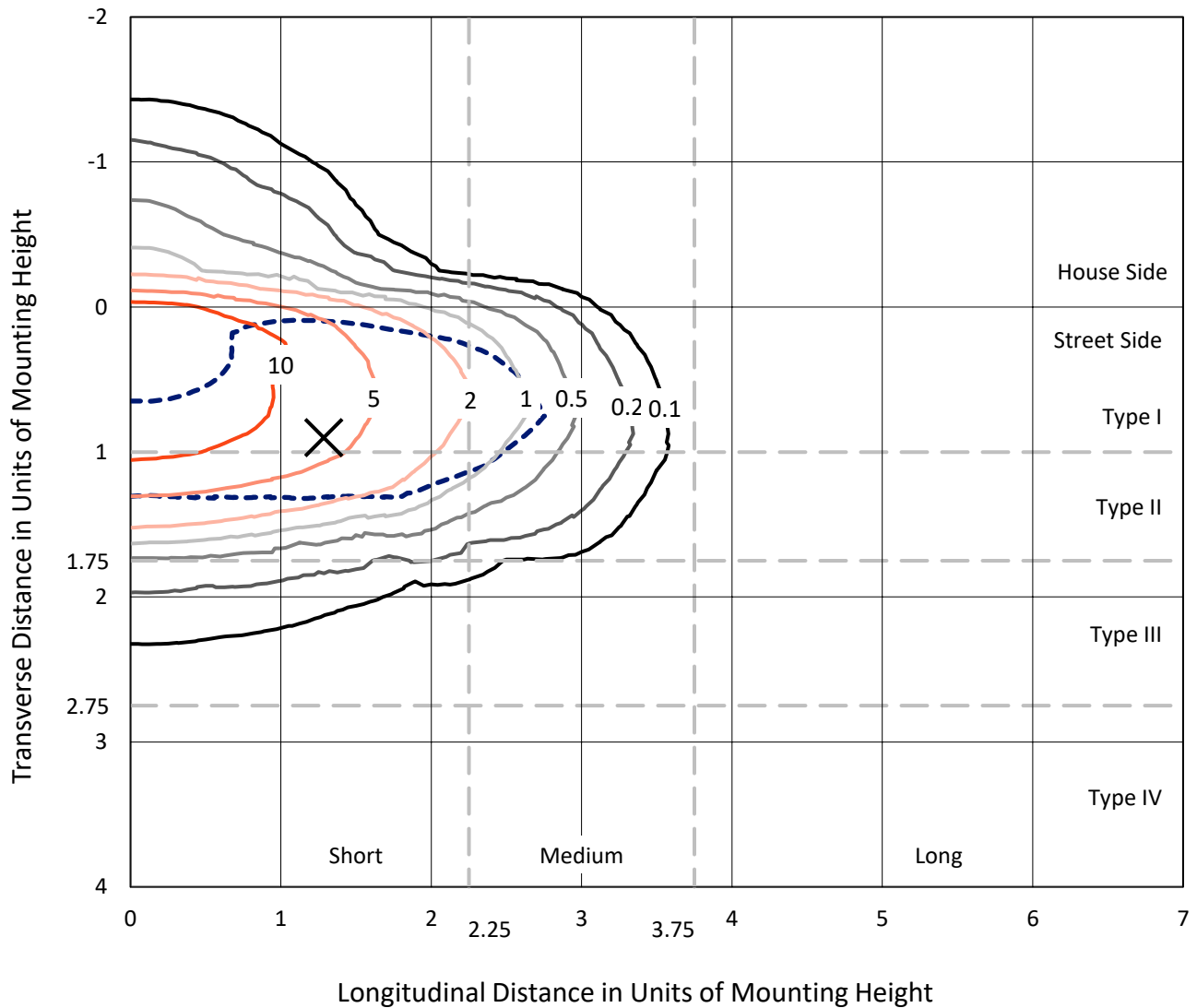
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P970381
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Iso-Footcandle Lines of Horizontal Illumination

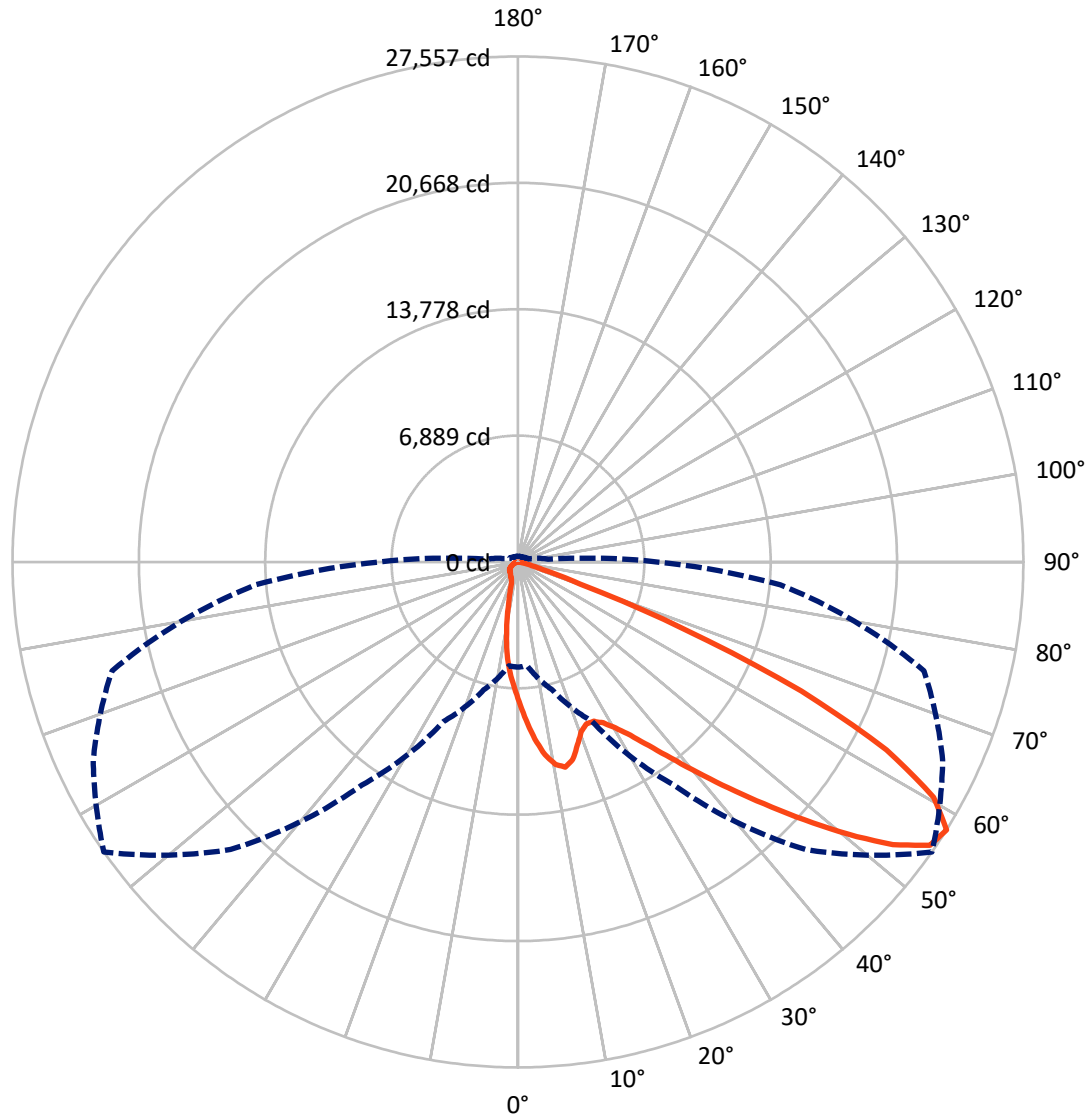
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 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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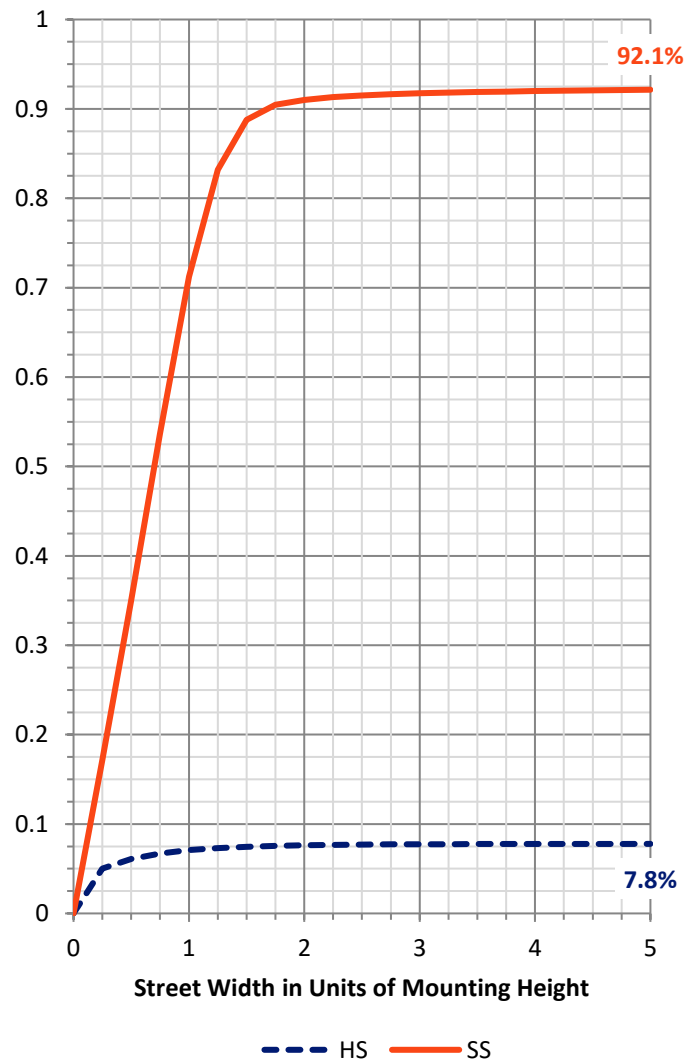
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2465.6 | 0.0 | 2465.6 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 29106.4 | 0.0 | 29106.4 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 31572.1 | 0.0 | 31572.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 707.9 | 2.2 |
| 10°-20° | 1709.9 | 5.4 |
| 20°-30° | 2735.8 | 8.7 |
| 30°-40° | 4630.6 | 14.7 |
| 40°-50° | 7602.4 | 24.1 |
| 50°-60° | 8355.6 | 26.5 |
| 60°-70° | 4792.8 | 15.2 |
| 70°-80° | 979.3 | 3.1 |
| 80°-90° | 57.8 | 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° | 31572.1 | 100.0 |
| 0°-180° | 31572.1 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P970381

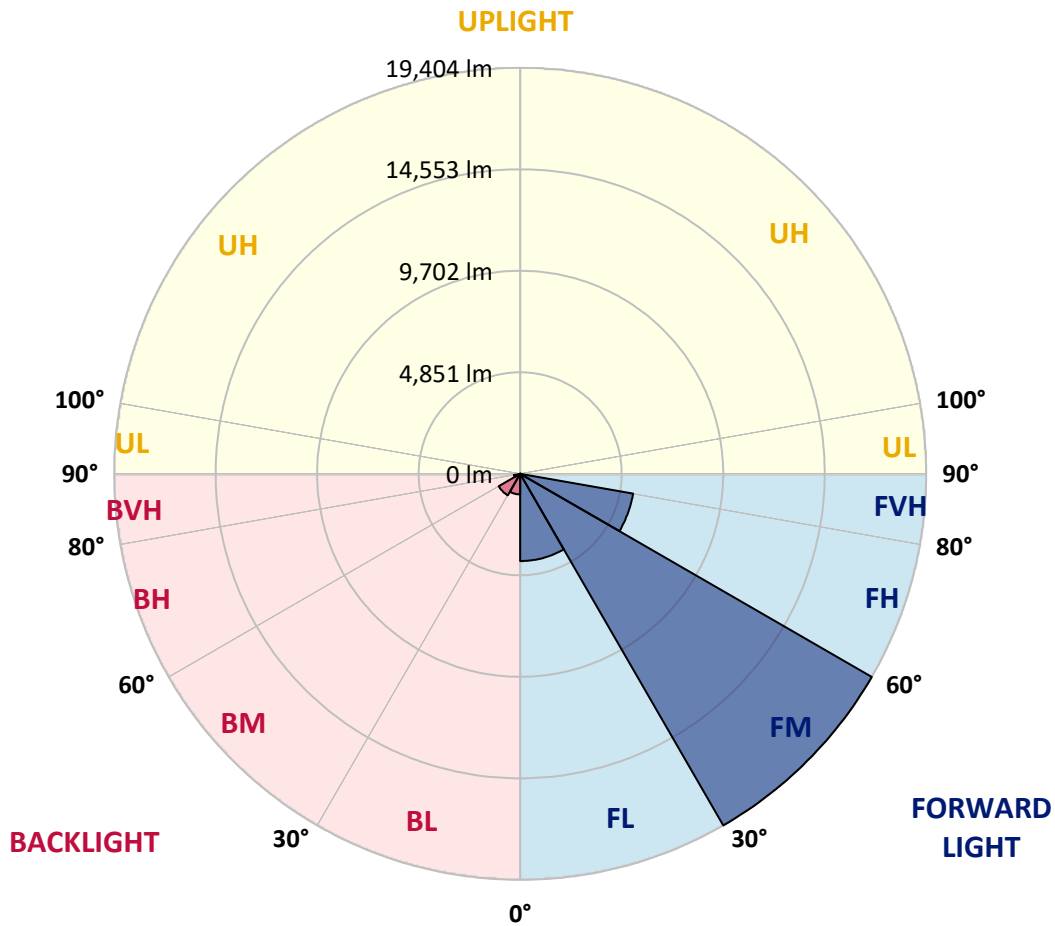
CATALOG NUMBER: NVN-SB6B-740-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4169.3 | 13.2 | | | |
| FM (30°-60°) | 19404.4 | 61.5 | | | |
| FH (60°-80°) | 5478.8 | 17.4 | | | G3/7500 |
| FVH (80°-90°) | 53.9 | 0.2 | | | G1/100 |
| BL (0°-30°) | 984.4 | 3.1 | B2/1000 | | |
| BM (30°-60°) | 1184.2 | 3.8 | B2/2500 | | |
| BH (60°-80°) | 293.2 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.9 | 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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 7608.1 | 7608.1 | 7608.1 | 7608.1 | 7608.1 | 7608.1 | 7608.1 | 7608.1 | 7608.1 | 7608.1 | 7608.1 |
| 2.5° | 9440.0 | 9321.2 | 9303.7 | 9280.3 | 9054.5 | 8885.2 | 8639.9 | 8371.3 | 8069.5 | 7761.9 | 7625.6 |
| 5° | 10906.0 | 10812.5 | 10795.0 | 10685.9 | 10429.0 | 10140.8 | 9704.8 | 9153.9 | 8591.2 | 7929.3 | 7645.1 |
| 7.5° | 11190.2 | 11172.7 | 11252.4 | 11248.6 | 11213.6 | 10985.7 | 10617.9 | 9961.8 | 9116.9 | 8135.6 | 7695.7 |
| 10° | 9922.8 | 9967.6 | 10205.1 | 10413.4 | 10976.0 | 11303.1 | 11223.3 | 10682.0 | 9658.1 | 8371.3 | 7752.2 |
| 12.5° | 8768.4 | 8715.8 | 8885.2 | 9120.8 | 9774.9 | 10748.3 | 11474.5 | 11283.6 | 10277.2 | 8638.0 | 7835.8 |
| 15° | 8044.2 | 8022.8 | 8118.1 | 8227.2 | 8725.5 | 9706.8 | 11182.4 | 11772.3 | 10872.9 | 8953.3 | 7962.4 |
| 17.5° | 7812.6 | 7795.0 | 7824.1 | 7851.4 | 8174.6 | 8933.9 | 10487.4 | 12072.1 | 11443.3 | 9313.5 | 8102.5 |
| 20° | 8001.4 | 7978.0 | 7974.1 | 7952.7 | 8087.0 | 8604.9 | 9858.6 | 12093.5 | 11955.3 | 9640.5 | 8223.3 |
| 22.5° | 8552.3 | 8525.0 | 8429.6 | 8344.0 | 8355.7 | 8649.7 | 9578.2 | 11879.3 | 12340.8 | 9946.2 | 8299.2 |
| 25° | 9550.9 | 9506.3 | 9307.6 | 9019.5 | 8836.5 | 8961.1 | 9621.1 | 11597.1 | 12708.7 | 10185.6 | 8262.2 |
| 27.5° | 10800.8 | 10742.4 | 10487.4 | 10059.1 | 9640.5 | 9488.7 | 9930.6 | 11402.4 | 13014.3 | 10368.7 | 8182.4 |
| 30° | 12025.4 | 11949.4 | 11698.3 | 11365.4 | 10754.1 | 10275.2 | 10489.3 | 11488.1 | 13378.4 | 10559.4 | 8077.3 |
| 32.5° | 13347.2 | 13275.2 | 12942.3 | 12529.6 | 12023.5 | 11379.0 | 11254.4 | 11906.6 | 13824.2 | 10826.2 | 8003.3 |
| 35° | 15019.5 | 14906.7 | 14433.5 | 13870.9 | 13333.6 | 12681.4 | 12290.2 | 12628.9 | 14418.0 | 11233.0 | 8044.2 |
| 37.5° | 16923.5 | 16771.7 | 16261.6 | 15484.9 | 14784.0 | 14054.0 | 13551.6 | 13621.7 | 15288.2 | 11778.2 | 8170.7 |
| 40° | 18718.4 | 18580.3 | 18109.1 | 17377.1 | 16497.2 | 15611.4 | 15076.0 | 14920.2 | 16489.4 | 12442.0 | 8392.6 |
| 42.5° | 19795.0 | 19670.5 | 19471.8 | 19162.4 | 18420.6 | 17517.2 | 16841.8 | 16505.0 | 17910.5 | 13236.2 | 8663.3 |
| 45° | 19855.4 | 19746.4 | 20013.1 | 20373.2 | 20227.2 | 19625.7 | 18802.2 | 18185.0 | 19337.5 | 13981.9 | 8943.6 |
| 47.5° | 18889.8 | 18815.8 | 19625.7 | 20883.4 | 21510.1 | 21763.2 | 21004.0 | 19725.0 | 20515.4 | 14517.3 | 9058.4 |
| 50° | 16257.7 | 16230.5 | 17896.9 | 20205.8 | 21998.9 | 23636.1 | 23326.5 | 21157.8 | 21428.4 | 14793.7 | 8949.5 |
| 52.5° | 14096.7 | 13997.5 | 14968.9 | 18037.1 | 21288.2 | 24621.1 | 25596.5 | 22563.4 | 22066.9 | 14846.3 | 8694.4 |
| 55° | 10691.8 | 10604.2 | 11822.9 | 14408.2 | 18996.8 | 24270.8 | 27257.1 | 24013.8 | 22524.5 | 14711.9 | 8236.9 |
| 57.5° | 5735.3 | 5680.8 | 7220.7 | 9589.9 | 14850.2 | 22168.2 | 27556.9 | 25547.8 | 22909.9 | 14355.6 | 7596.4 |
| 60° | 2233.0 | 2223.2 | 2799.5 | 4652.9 | 9025.3 | 18035.2 | 26044.2 | 26468.7 | 23151.4 | 13917.7 | 7061.0 |
| 62.5° | 1351.1 | 1380.3 | 1473.7 | 2089.0 | 3987.0 | 11203.9 | 22557.6 | 25421.3 | 23312.9 | 13516.6 | 6619.1 |
| 65° | 1117.5 | 1119.4 | 1131.1 | 1434.8 | 1909.8 | 4687.9 | 16981.9 | 21975.5 | 22913.8 | 12802.1 | 5992.3 |
| 67.5° | 957.9 | 975.4 | 1020.1 | 1138.9 | 1347.2 | 2055.8 | 9776.9 | 17022.8 | 20486.2 | 11139.6 | 5014.9 |
| 70° | 755.3 | 778.7 | 835.2 | 936.4 | 1039.6 | 1286.8 | 3613.2 | 11326.5 | 15650.3 | 8396.5 | 3792.4 |
| 72.5° | 636.6 | 634.7 | 663.9 | 761.2 | 825.4 | 905.3 | 1390.0 | 6346.6 | 9095.4 | 4008.5 | 1876.7 |
| 75° | 492.5 | 512.0 | 549.0 | 636.6 | 675.6 | 656.1 | 753.4 | 2318.7 | 3259.0 | 1214.8 | 638.6 |
| 77.5° | 385.5 | 401.1 | 434.1 | 519.8 | 558.7 | 465.2 | 434.1 | 829.3 | 1047.3 | 436.0 | 288.1 |
| 80° | 173.2 | 186.9 | 295.9 | 383.6 | 455.5 | 321.2 | 235.5 | 424.5 | 465.2 | 198.5 | 146.0 |
| 82.5° | 31.2 | 52.6 | 173.2 | 202.4 | 233.6 | 208.3 | 122.7 | 220.0 | 227.8 | 79.8 | 50.6 |
| 85° | 1.9 | 3.9 | 60.4 | 74.0 | 93.5 | 68.2 | 37.0 | 87.6 | 76.0 | 27.3 | 19.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.9 | 1.9 | 9.7 | 11.7 | 15.6 | 11.7 | 9.7 | 7.8 |
| 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° | 7608.1 | 7608.1 | 7608.1 | 7608.1 | 7608.1 | 7608.1 | 7608.1 | 7608.1 | 7608.1 | 7608.1 |
| 2.5° | 7485.5 | 7209.0 | 6940.4 | 6720.3 | 6591.9 | 6373.9 | 6229.7 | 6206.4 | 6146.0 | 6198.6 |
| 5° | 7341.4 | 6846.9 | 6346.6 | 5898.8 | 5530.9 | 5055.8 | 4701.5 | 4551.6 | 4421.1 | 4465.9 |
| 7.5° | 7273.2 | 6492.6 | 5713.9 | 4948.8 | 4162.2 | 3403.0 | 2838.4 | 2602.9 | 2423.7 | 2449.0 |
| 10° | 7181.8 | 6124.6 | 4904.0 | 3735.9 | 2682.7 | 1933.2 | 1543.9 | 1399.7 | 1319.9 | 1321.8 |
| 12.5° | 7111.7 | 5684.6 | 3963.7 | 2532.8 | 1633.3 | 1234.3 | 1113.6 | 1078.5 | 1055.1 | 1057.1 |
| 15° | 7076.6 | 5166.8 | 3035.0 | 1687.9 | 1168.1 | 1045.4 | 1016.2 | 1000.6 | 985.1 | 983.2 |
| 17.5° | 7018.2 | 4590.6 | 2221.3 | 1232.4 | 1022.0 | 979.3 | 954.0 | 936.4 | 917.0 | 913.1 |
| 20° | 6930.6 | 3936.4 | 1623.6 | 1041.5 | 957.9 | 924.8 | 889.7 | 866.3 | 843.0 | 839.1 |
| 22.5° | 6769.0 | 3245.4 | 1247.9 | 963.7 | 911.1 | 874.1 | 831.3 | 804.0 | 780.6 | 776.7 |
| 25° | 6469.2 | 2597.0 | 1051.2 | 915.0 | 870.2 | 825.4 | 778.7 | 741.7 | 720.3 | 716.4 |
| 27.5° | 6089.6 | 2040.3 | 954.0 | 870.2 | 817.6 | 776.7 | 724.2 | 689.2 | 669.7 | 665.8 |
| 30° | 5641.8 | 1571.0 | 897.5 | 819.6 | 755.3 | 720.3 | 673.6 | 644.4 | 632.7 | 632.7 |
| 32.5° | 5159.0 | 1255.7 | 874.1 | 769.0 | 700.9 | 661.9 | 624.9 | 613.3 | 609.4 | 607.4 |
| 35° | 4705.4 | 1090.2 | 862.4 | 728.1 | 652.2 | 615.2 | 599.6 | 601.6 | 609.4 | 609.4 |
| 37.5° | 4302.4 | 1037.6 | 856.6 | 698.9 | 609.4 | 576.3 | 586.0 | 603.5 | 595.7 | 595.7 |
| 40° | 3938.4 | 1043.4 | 852.7 | 677.5 | 574.3 | 554.8 | 574.3 | 560.7 | 541.2 | 539.3 |
| 42.5° | 3660.0 | 1092.1 | 844.9 | 660.0 | 552.9 | 539.3 | 531.5 | 510.0 | 508.1 | 512.0 |
| 45° | 3457.5 | 1135.0 | 843.0 | 652.2 | 529.5 | 504.2 | 494.5 | 473.0 | 512.0 | 521.7 |
| 47.5° | 3218.1 | 1135.0 | 843.0 | 624.9 | 490.6 | 480.8 | 465.2 | 441.9 | 480.8 | 490.6 |
| 50° | 2908.5 | 1062.9 | 809.9 | 593.8 | 459.4 | 453.6 | 426.3 | 397.2 | 389.4 | 395.2 |
| 52.5° | 2517.2 | 932.5 | 726.1 | 550.9 | 428.2 | 416.7 | 383.6 | 362.1 | 356.3 | 356.3 |
| 55° | 2071.4 | 780.6 | 613.3 | 488.6 | 395.2 | 373.8 | 350.4 | 340.7 | 334.9 | 331.0 |
| 57.5° | 1684.0 | 640.5 | 492.5 | 434.1 | 364.1 | 336.8 | 329.0 | 317.3 | 307.6 | 301.8 |
| 60° | 1382.2 | 504.2 | 406.9 | 385.5 | 332.9 | 307.6 | 305.7 | 290.1 | 264.8 | 260.9 |
| 62.5° | 1066.8 | 369.9 | 342.7 | 334.9 | 301.8 | 280.3 | 276.4 | 245.3 | 206.3 | 198.5 |
| 65° | 753.4 | 288.1 | 276.4 | 294.0 | 268.7 | 249.2 | 239.4 | 192.7 | 151.8 | 146.0 |
| 67.5° | 529.5 | 241.4 | 218.0 | 257.0 | 233.6 | 208.3 | 202.4 | 163.5 | 126.6 | 122.7 |
| 70° | 377.7 | 196.6 | 179.1 | 220.0 | 186.9 | 183.0 | 171.3 | 136.3 | 103.2 | 99.3 |
| 72.5° | 266.7 | 149.9 | 138.3 | 190.8 | 128.5 | 157.6 | 140.2 | 105.2 | 77.9 | 74.0 |
| 75° | 196.6 | 107.1 | 97.4 | 111.0 | 93.5 | 118.8 | 99.3 | 70.1 | 48.7 | 46.7 |
| 77.5° | 144.0 | 68.2 | 58.4 | 54.5 | 54.5 | 74.0 | 54.5 | 29.2 | 21.4 | 19.5 |
| 80° | 101.3 | 31.2 | 27.3 | 23.4 | 21.4 | 17.5 | 7.8 | 3.9 | 1.9 | 1.9 |
| 82.5° | 60.4 | 13.6 | 13.6 | 9.7 | 5.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 13.6 | 5.8 | 5.8 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.9 | 1.9 | 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)