

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: P969354

Luminaire Tested: **NVN-SB5D-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5D-740-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55633.9 lumens
Efficiency: N/A
Efficacy: 152.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

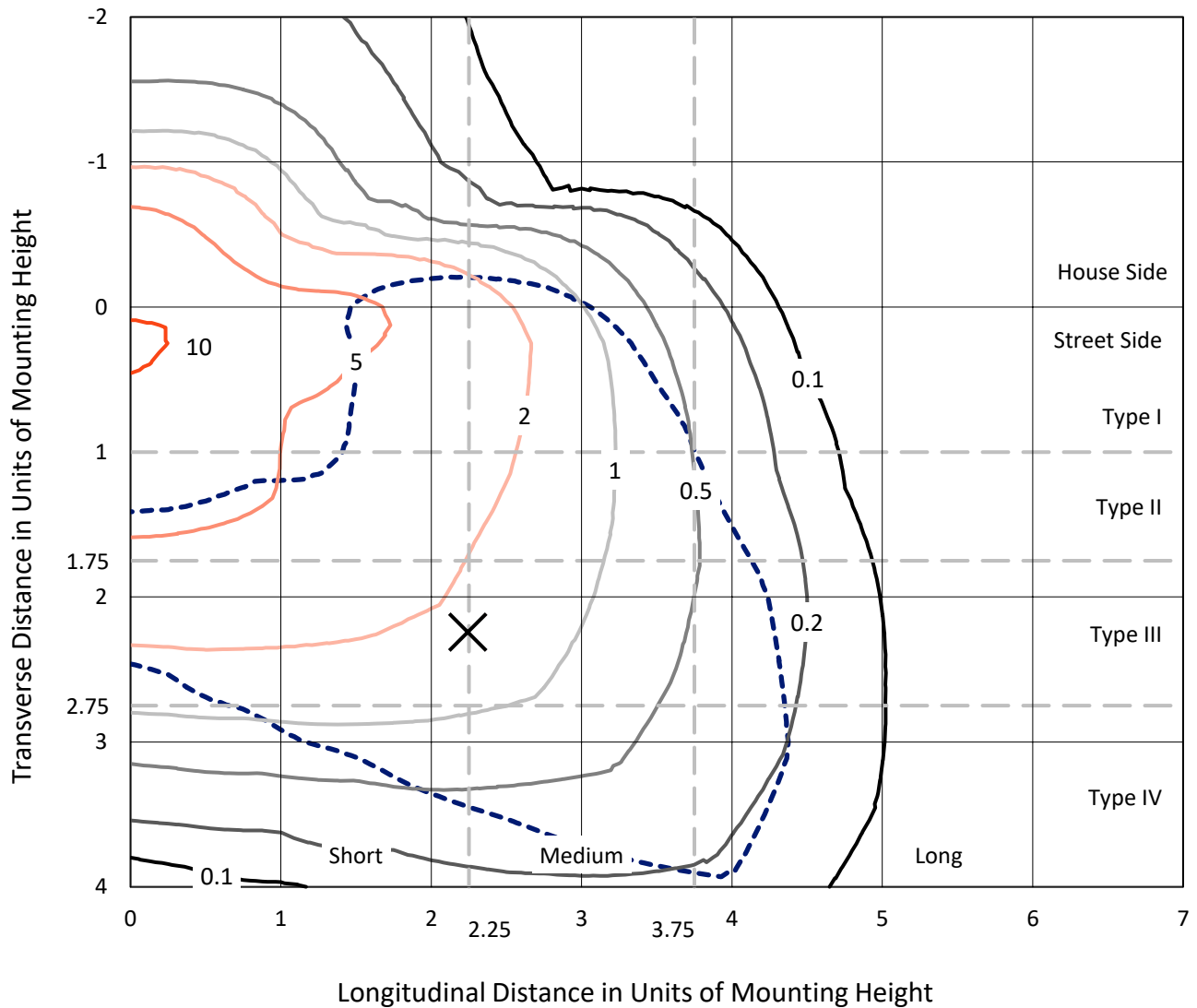
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

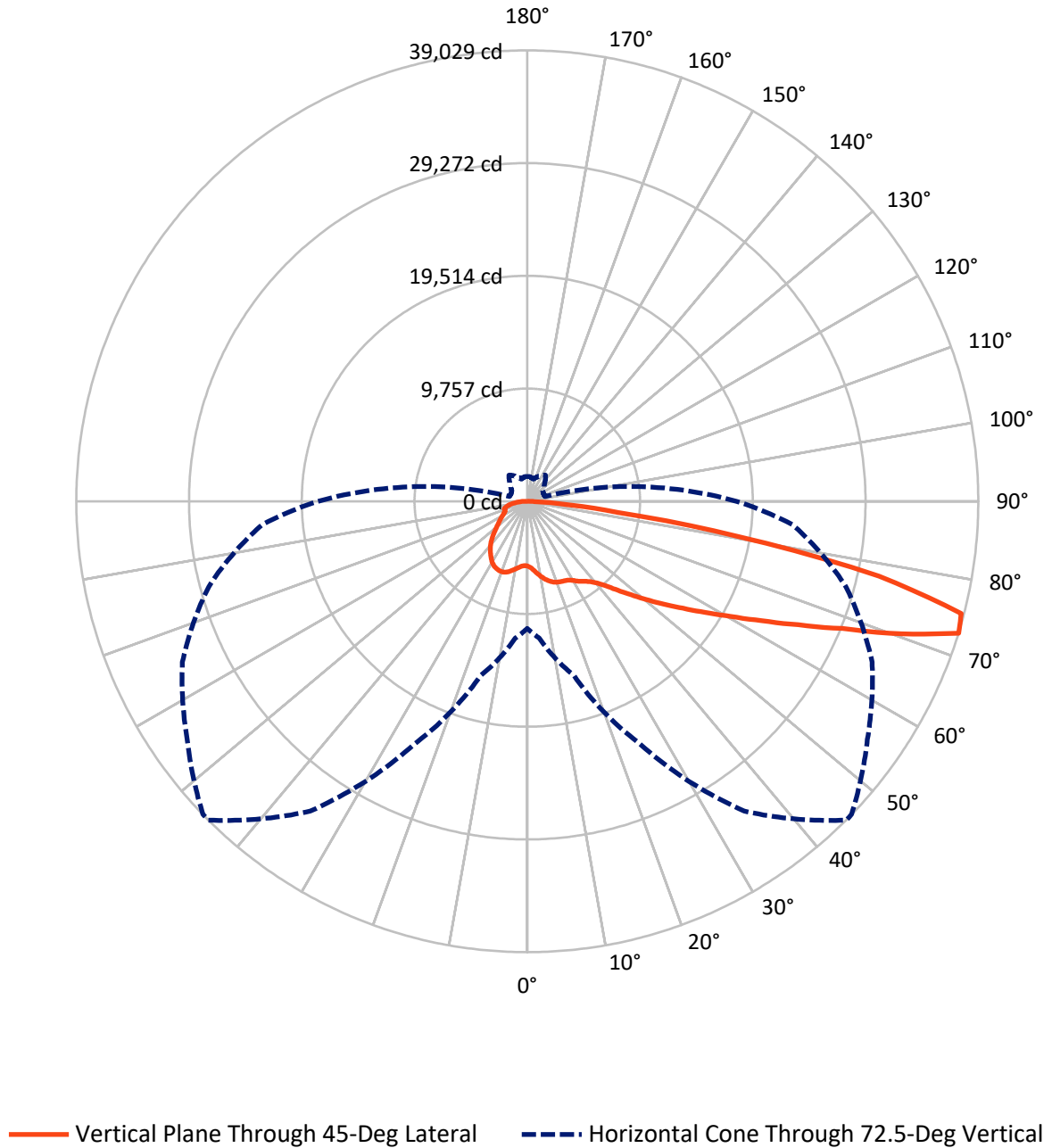
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12576.9 | 0.0 | 12576.9 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 43057.0 | 0.0 | 43057.0 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 55633.9 | 0.0 | 55633.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 571.2 | 1.0 |
| 10°-20° | 1904.6 | 3.4 |
| 20°-30° | 3313.1 | 6.0 |
| 30°-40° | 4749.5 | 8.5 |
| 40°-50° | 6687.5 | 12.0 |
| 50°-60° | 10243.4 | 18.4 |
| 60°-70° | 14839.0 | 26.7 |
| 70°-80° | 11849.8 | 21.3 |
| 80°-90° | 1475.8 | 2.7 |
| 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° | 55633.9 | 100.0 |
| 0°-180° | 55633.9 | 100.0 |



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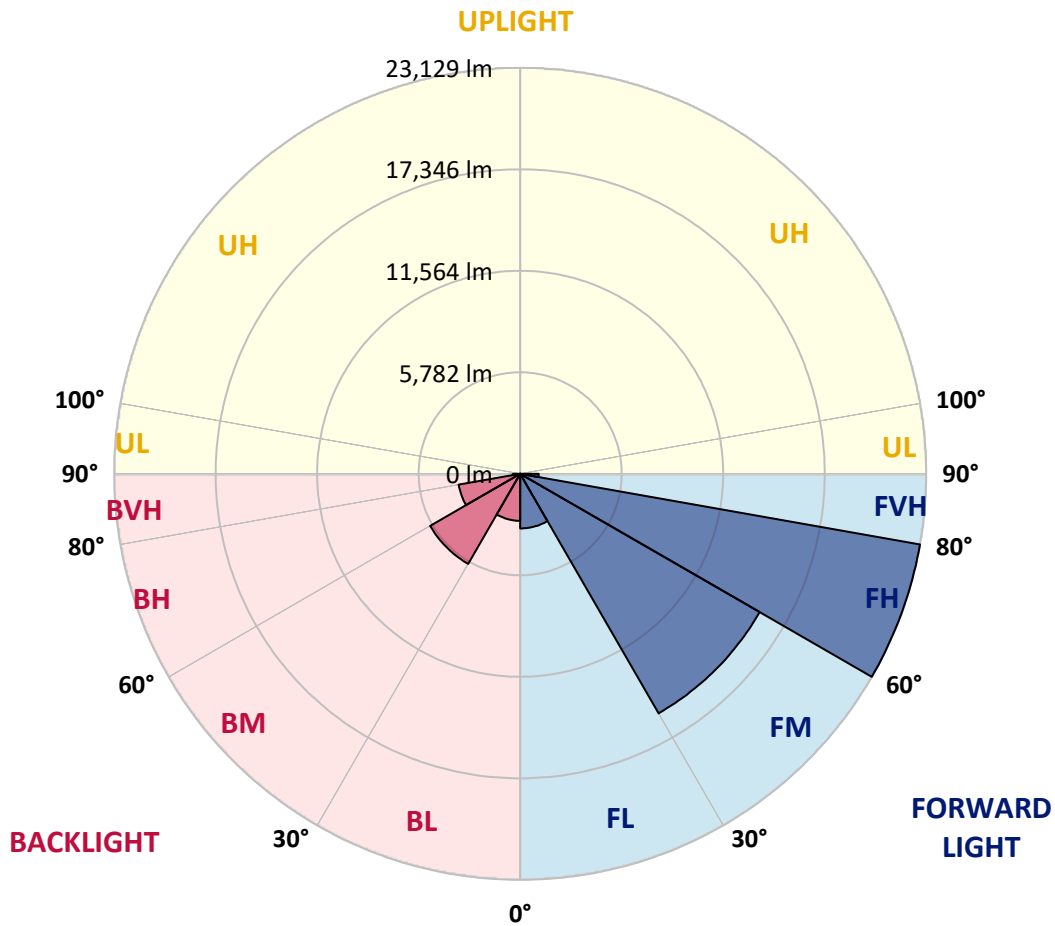
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3111.1 | 5.6 | | | |
| FM (30°-60°) | 15758.4 | 28.3 | | | |
| FH (60°-80°) | 23128.6 | 41.6 | | | G5 |
| FVH (80°-90°) | 1058.8 | 1.9 | | | G5 |
| BL (0°-30°) | 2677.7 | 4.8 | B4/5000 | | |
| BM (30°-60°) | 5921.9 | 10.6 | B4/8500 | | |
| BH (60°-80°) | 3560.2 | 6.4 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 417.1 | 0.7 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5612.4 | 5612.4 | 5612.4 | 5612.4 | 5612.4 | 5612.4 | 5612.4 | 5612.4 | 5612.4 | 5612.4 | 5612.4 |
| 2.5° | 5832.1 | 5870.3 | 5835.1 | 5802.8 | 5788.2 | 5750.1 | 5747.2 | 5723.7 | 5709.0 | 5668.0 | 5656.4 |
| 5° | 6239.6 | 6289.4 | 6230.8 | 6166.3 | 6107.7 | 6013.9 | 6002.2 | 5934.7 | 5858.6 | 5770.6 | 5720.8 |
| 7.5° | 6699.7 | 6743.7 | 6676.2 | 6579.6 | 6477.0 | 6321.6 | 6318.7 | 6195.6 | 6075.5 | 5925.9 | 5841.0 |
| 10° | 7101.2 | 7159.8 | 7068.9 | 6937.1 | 6808.2 | 6632.3 | 6611.8 | 6471.1 | 6318.7 | 6125.3 | 5996.4 |
| 12.5° | 7455.8 | 7496.8 | 7408.9 | 7247.8 | 7098.2 | 6922.4 | 6896.1 | 6740.7 | 6570.8 | 6350.9 | 6186.8 |
| 15° | 7737.2 | 7789.9 | 7672.7 | 7499.8 | 7341.6 | 7168.6 | 7145.2 | 7004.4 | 6834.5 | 6602.9 | 6392.0 |
| 17.5° | 7921.8 | 7965.8 | 7845.7 | 7652.1 | 7499.8 | 7356.2 | 7338.6 | 7221.3 | 7071.9 | 6837.5 | 6611.8 |
| 20° | 7992.1 | 8039.1 | 7913.0 | 7716.6 | 7576.0 | 7464.6 | 7455.8 | 7370.9 | 7268.3 | 7054.4 | 6825.7 |
| 22.5° | 8062.4 | 8106.4 | 7942.3 | 7737.2 | 7614.1 | 7543.7 | 7540.8 | 7485.2 | 7444.1 | 7268.3 | 7045.5 |
| 25° | 8346.8 | 8358.5 | 8138.7 | 7842.7 | 7666.8 | 7605.3 | 7602.3 | 7599.5 | 7617.0 | 7479.2 | 7282.9 |
| 27.5° | 8593.0 | 8590.0 | 8402.4 | 8124.0 | 7851.5 | 7722.6 | 7719.6 | 7748.9 | 7804.6 | 7690.3 | 7529.1 |
| 30° | 8953.5 | 8921.2 | 8698.5 | 8408.3 | 8159.2 | 7959.9 | 7942.3 | 7916.0 | 7959.9 | 7869.0 | 7775.2 |
| 32.5° | 9718.3 | 9615.7 | 9255.3 | 8739.5 | 8414.2 | 8261.8 | 8238.3 | 8074.2 | 8091.8 | 8036.1 | 7989.3 |
| 35° | 10814.5 | 10679.7 | 10199.0 | 9366.7 | 8730.7 | 8513.9 | 8502.1 | 8294.0 | 8258.8 | 8209.0 | 8226.6 |
| 37.5° | 12118.7 | 11951.6 | 11391.8 | 10275.2 | 9275.8 | 8806.9 | 8789.3 | 8601.7 | 8458.1 | 8405.4 | 8505.0 |
| 40° | 13428.7 | 13217.7 | 12754.6 | 11383.0 | 10078.8 | 9296.3 | 9240.7 | 8956.3 | 8792.2 | 8704.3 | 8915.3 |
| 42.5° | 14700.7 | 14524.8 | 14129.1 | 12625.6 | 11069.4 | 10011.4 | 9888.4 | 9401.8 | 9278.7 | 9196.7 | 9577.7 |
| 45° | 15826.0 | 15667.7 | 15377.7 | 13953.3 | 12230.0 | 10984.4 | 10864.3 | 10070.0 | 10032.0 | 10032.0 | 10582.9 |
| 47.5° | 16740.4 | 16705.2 | 16397.5 | 15307.2 | 13598.7 | 12092.2 | 11884.2 | 10999.1 | 11101.7 | 11259.9 | 12010.2 |
| 50° | 17754.4 | 17657.8 | 17329.5 | 16640.8 | 15207.6 | 13361.3 | 13191.3 | 12139.2 | 12523.0 | 12956.8 | 14073.5 |
| 52.5° | 18686.5 | 18739.2 | 18372.8 | 18030.0 | 17024.7 | 14776.8 | 14477.9 | 13484.4 | 14313.8 | 15031.8 | 16491.3 |
| 55° | 19644.8 | 19647.7 | 19545.1 | 19498.3 | 18929.7 | 16341.9 | 16013.6 | 15102.1 | 16421.0 | 17311.9 | 19310.7 |
| 57.5° | 20544.5 | 20550.4 | 20702.7 | 21116.0 | 21139.5 | 18147.2 | 17774.9 | 17089.2 | 18762.6 | 19671.2 | 22218.0 |
| 60° | 21347.6 | 21388.6 | 21804.7 | 22771.9 | 23082.6 | 20216.3 | 19864.6 | 19436.7 | 21183.5 | 22097.9 | 25274.8 |
| 62.5° | 21617.1 | 21766.7 | 22692.8 | 24067.3 | 25002.2 | 22754.3 | 22408.4 | 22153.5 | 23727.3 | 24577.2 | 27830.4 |
| 65° | 21160.0 | 21502.9 | 23293.5 | 25137.0 | 26977.5 | 25770.0 | 25427.2 | 25148.8 | 26370.9 | 27170.9 | 29928.8 |
| 67.5° | 20037.5 | 20480.0 | 23258.4 | 26259.5 | 29374.9 | 29398.3 | 29078.8 | 28425.3 | 29204.9 | 29512.6 | 30611.6 |
| 70° | 17080.4 | 17742.8 | 21209.8 | 26678.6 | 32126.9 | 34360.0 | 34052.3 | 32370.1 | 32033.1 | 30544.3 | 28689.0 |
| 72.5° | 11004.9 | 11895.9 | 15617.9 | 23229.1 | 32739.4 | 39028.7 | 39011.2 | 35931.0 | 32926.9 | 28539.6 | 23009.3 |
| 75° | 4015.1 | 4560.2 | 7256.5 | 14580.4 | 27481.6 | 38791.3 | 38905.6 | 35321.4 | 30057.7 | 22045.1 | 14334.3 |
| 77.5° | 1462.5 | 1600.2 | 2368.1 | 5603.6 | 16901.6 | 31124.5 | 31361.9 | 28237.7 | 21394.4 | 11063.5 | 5679.8 |
| 80° | 767.8 | 844.1 | 1213.3 | 2174.6 | 7241.8 | 18484.2 | 18856.4 | 16781.5 | 10055.4 | 3332.3 | 1702.7 |
| 82.5° | 425.0 | 460.1 | 679.9 | 1181.1 | 3262.0 | 7904.2 | 8126.9 | 6629.4 | 3537.4 | 1412.7 | 703.4 |
| 85° | 228.6 | 243.2 | 319.5 | 644.7 | 1594.3 | 2740.2 | 2801.8 | 1981.2 | 1409.7 | 829.4 | 340.0 |
| 87.5° | 67.4 | 82.1 | 105.5 | 205.1 | 624.2 | 615.4 | 630.1 | 392.7 | 556.9 | 419.1 | 111.4 |
| 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° | 5612.4 | 5612.4 | 5612.4 | 5612.4 | 5612.4 | 5612.4 | 5612.4 | 5612.4 | 5612.4 | 5612.4 | 5612.4 |
| 2.5° | 5638.7 | 5629.9 | 5597.7 | 5583.1 | 5565.4 | 5562.6 | 5577.2 | 5580.1 | 5583.1 | 5586.0 | 5597.7 |
| 5° | 5691.5 | 5662.2 | 5632.9 | 5615.4 | 5621.2 | 5624.1 | 5653.4 | 5673.9 | 5688.5 | 5700.3 | 5706.2 |
| 7.5° | 5794.1 | 5770.6 | 5720.8 | 5717.9 | 5726.7 | 5753.0 | 5791.1 | 5838.1 | 5864.4 | 5884.9 | 5890.8 |
| 10° | 5946.4 | 5902.6 | 5843.9 | 5852.7 | 5870.3 | 5908.4 | 5987.5 | 6025.6 | 6069.5 | 6107.7 | 6098.9 |
| 12.5° | 6101.8 | 6063.7 | 5996.4 | 6002.2 | 6031.5 | 6098.9 | 6175.1 | 6222.0 | 6251.3 | 6280.6 | 6292.3 |
| 15° | 6304.1 | 6236.6 | 6163.3 | 6163.3 | 6216.1 | 6289.4 | 6324.6 | 6362.7 | 6380.2 | 6412.5 | 6424.2 |
| 17.5° | 6512.1 | 6424.2 | 6327.5 | 6321.6 | 6386.1 | 6421.3 | 6441.8 | 6447.7 | 6453.5 | 6488.7 | 6500.4 |
| 20° | 6720.2 | 6623.4 | 6485.8 | 6474.0 | 6488.7 | 6482.8 | 6479.8 | 6474.0 | 6482.8 | 6526.8 | 6544.3 |
| 22.5° | 6925.3 | 6814.0 | 6623.4 | 6570.8 | 6529.7 | 6474.0 | 6471.1 | 6468.2 | 6474.0 | 6518.0 | 6547.3 |
| 25° | 7165.7 | 7030.9 | 6775.9 | 6617.6 | 6479.8 | 6403.7 | 6412.5 | 6415.4 | 6421.3 | 6456.5 | 6503.3 |
| 27.5° | 7426.5 | 7277.1 | 6916.6 | 6602.9 | 6353.9 | 6301.1 | 6286.4 | 6295.2 | 6315.7 | 6371.4 | 6427.2 |
| 30° | 7687.4 | 7511.5 | 7045.5 | 6544.3 | 6195.6 | 6122.3 | 6075.5 | 6096.0 | 6160.5 | 6216.1 | 6277.6 |
| 32.5° | 7924.8 | 7748.9 | 7148.0 | 6415.4 | 5993.4 | 5879.1 | 5817.5 | 5843.9 | 5908.4 | 5928.9 | 6002.2 |
| 35° | 8203.2 | 8003.9 | 7192.0 | 6210.3 | 5773.6 | 5597.7 | 5515.6 | 5477.6 | 5509.8 | 5489.3 | 5553.8 |
| 37.5° | 8513.9 | 8305.8 | 7186.2 | 5940.6 | 5515.6 | 5313.4 | 5199.1 | 5055.5 | 4988.2 | 4917.7 | 4961.7 |
| 40° | 8974.0 | 8675.0 | 7115.9 | 5615.4 | 5196.2 | 5011.5 | 4806.4 | 4563.2 | 4410.8 | 4273.0 | 4281.8 |
| 42.5° | 9601.2 | 9187.9 | 6986.9 | 5257.7 | 4835.7 | 4662.8 | 4384.4 | 4100.1 | 3859.8 | 3631.2 | 3610.7 |
| 45° | 10536.1 | 9859.1 | 6825.7 | 4876.7 | 4445.9 | 4276.0 | 3974.1 | 3654.6 | 3382.1 | 3089.0 | 3053.9 |
| 47.5° | 11884.2 | 10761.7 | 6673.3 | 4443.0 | 4035.6 | 3880.3 | 3607.8 | 3311.8 | 2989.4 | 2705.1 | 2672.8 |
| 50° | 13736.4 | 12057.1 | 6532.6 | 4021.0 | 3631.2 | 3514.0 | 3297.1 | 2995.3 | 2669.9 | 2441.3 | 2426.7 |
| 52.5° | 16092.7 | 13818.4 | 6474.0 | 3613.6 | 3253.1 | 3209.2 | 3036.3 | 2754.9 | 2447.2 | 2253.8 | 2239.1 |
| 55° | 18797.8 | 15925.6 | 6474.0 | 3223.8 | 2922.0 | 2936.6 | 2816.5 | 2555.6 | 2288.9 | 2116.0 | 2098.4 |
| 57.5° | 21558.6 | 18059.3 | 6356.7 | 2863.3 | 2640.6 | 2702.1 | 2625.9 | 2397.4 | 2157.0 | 1978.2 | 1948.9 |
| 60° | 24102.5 | 19847.0 | 5882.0 | 2535.1 | 2391.5 | 2488.2 | 2438.4 | 2242.0 | 1948.9 | 1799.5 | 1776.0 |
| 62.5° | 26057.2 | 20855.2 | 4967.7 | 2274.3 | 2186.3 | 2297.7 | 2271.3 | 2036.9 | 1910.8 | 1849.3 | 1828.8 |
| 65° | 27036.1 | 20691.1 | 3798.2 | 2042.7 | 2013.4 | 2186.3 | 2130.7 | 2121.9 | 2022.2 | 1951.9 | 1928.4 |
| 67.5° | 26435.4 | 19278.4 | 2754.9 | 1872.8 | 1913.8 | 2083.7 | 2297.7 | 2332.9 | 2148.2 | 2010.5 | 1987.1 |
| 70° | 23800.6 | 16722.9 | 2051.5 | 1711.5 | 1787.8 | 2086.7 | 2620.1 | 2441.3 | 2107.2 | 1946.1 | 1919.6 |
| 72.5° | 18106.1 | 12470.4 | 1591.4 | 1541.6 | 1623.6 | 2101.4 | 2763.7 | 2391.5 | 1989.9 | 2151.2 | 2133.5 |
| 75° | 10354.3 | 6846.2 | 1277.8 | 1333.5 | 1418.5 | 1963.6 | 2690.4 | 2262.6 | 1899.1 | 1975.3 | 1975.3 |
| 77.5° | 3947.7 | 2631.8 | 1055.0 | 1128.3 | 1140.1 | 1714.5 | 2573.2 | 2253.8 | 1808.3 | 1764.3 | 1608.9 |
| 80° | 1368.7 | 1028.7 | 873.4 | 896.8 | 882.1 | 1524.0 | 2467.7 | 1960.6 | 1480.0 | 1324.7 | 1280.7 |
| 82.5° | 559.8 | 512.9 | 691.7 | 662.4 | 627.2 | 1184.0 | 1992.9 | 1603.1 | 1210.4 | 1069.7 | 1058.0 |
| 85° | 243.2 | 325.3 | 457.2 | 401.5 | 363.4 | 820.6 | 1597.3 | 1356.9 | 1022.8 | 882.1 | 879.2 |
| 87.5° | 49.8 | 123.1 | 193.4 | 181.7 | 187.6 | 548.1 | 1134.2 | 964.2 | 723.9 | 542.2 | 425.0 |
| 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)