

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: P970837

Luminaire Tested: **NVN-SB6C-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6C-727-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44325.1 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

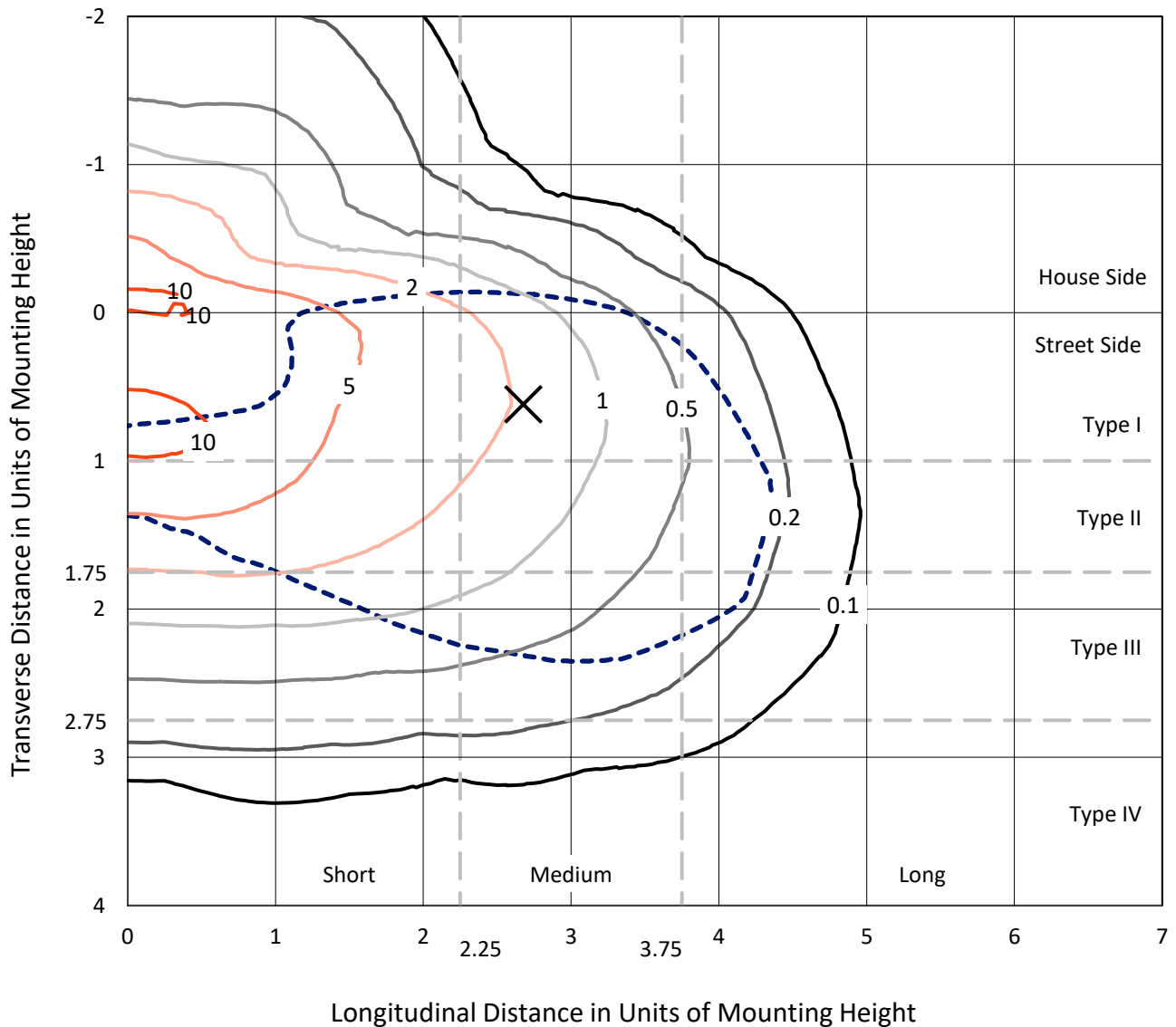
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

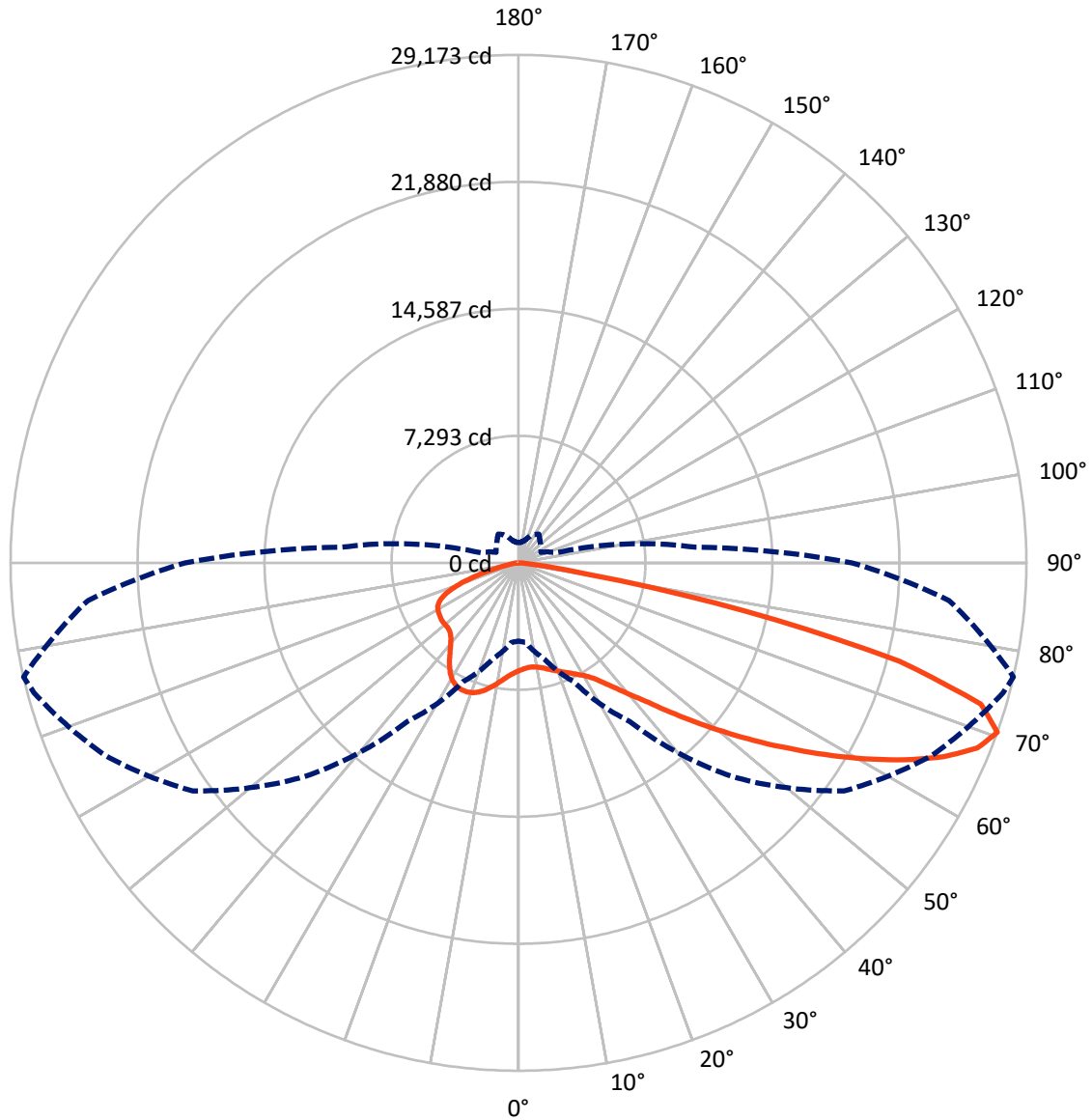
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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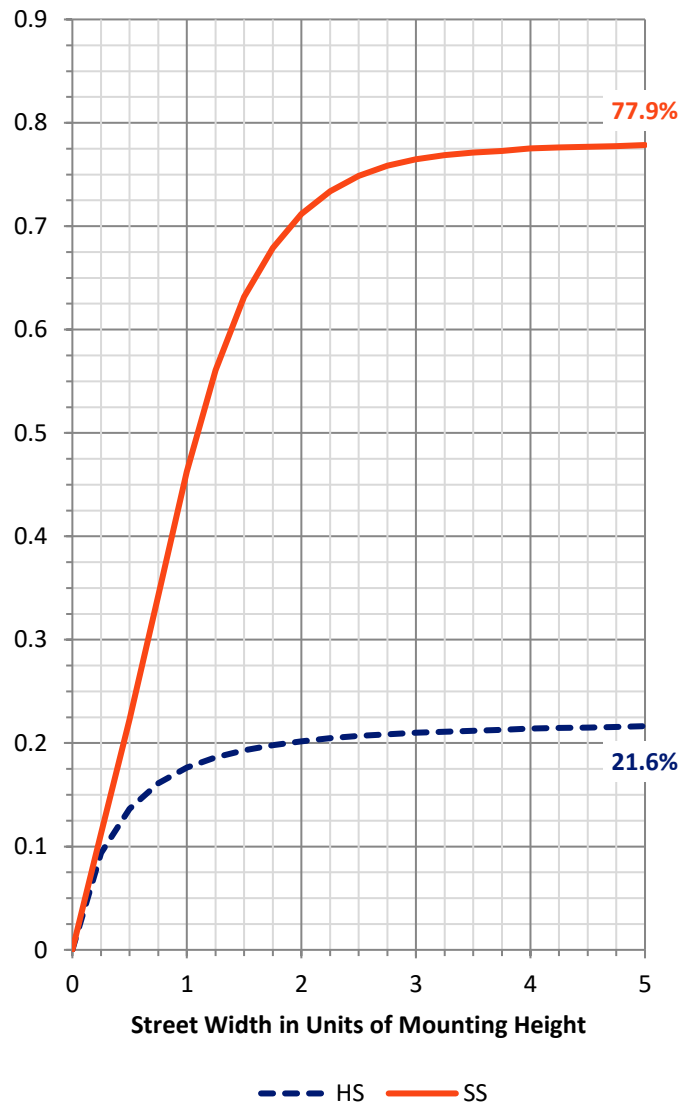
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9706.5 | 0.0 | 9706.5 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 34618.6 | 0.0 | 34618.6 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 44325.1 | 0.0 | 44325.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 589.8 | 1.3 |
| 10°-20° | 1702.1 | 3.8 |
| 20°-30° | 2910.9 | 6.6 |
| 30°-40° | 4681.0 | 10.6 |
| 40°-50° | 7308.2 | 16.5 |
| 50°-60° | 9762.0 | 22.0 |
| 60°-70° | 10404.8 | 23.5 |
| 70°-80° | 6405.1 | 14.5 |
| 80°-90° | 561.3 | 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° | 44325.1 | 100.0 |
| 0°-180° | 44325.1 | 100.0 |

Coefficient of Utilization

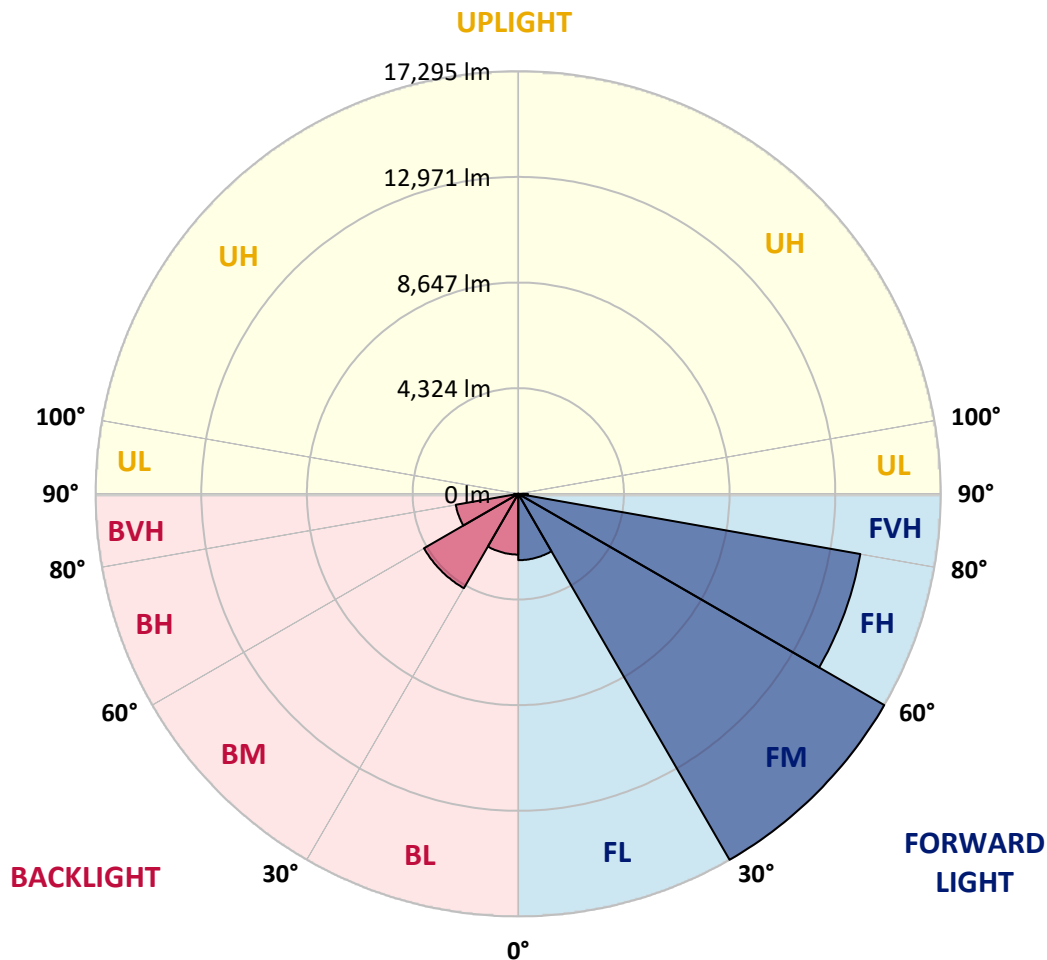


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2715.6 | 6.1 | | | |
| FM (30°-60°) | 17294.7 | 39.0 | | | |
| FH (60°-80°) | 14215.8 | 32.1 | | | G5 |
| FVH (80°-90°) | 392.5 | 0.9 | | | G3/500 |
| BL (0°-30°) | 2487.1 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 4456.5 | 10.1 | B3/5000 | | |
| BH (60°-80°) | 2594.1 | 5.9 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 168.8 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6183.7 | 6183.7 | 6183.7 | 6183.7 | 6183.7 | 6183.7 | 6183.7 | 6183.7 | 6183.7 | 6183.7 | 6183.7 |
| 2.5° | 5700.2 | 5698.0 | 5727.5 | 5736.5 | 5791.0 | 5829.6 | 5902.3 | 5979.4 | 6079.4 | 6090.7 | 6151.9 |
| 5° | 5371.1 | 5371.1 | 5405.1 | 5441.4 | 5511.8 | 5589.0 | 5700.2 | 5834.2 | 6006.7 | 6034.0 | 6186.0 |
| 7.5° | 5091.8 | 5110.0 | 5139.6 | 5209.9 | 5291.6 | 5402.9 | 5573.1 | 5763.8 | 5990.8 | 6034.0 | 6279.2 |
| 10° | 4867.1 | 4887.5 | 4923.9 | 4980.6 | 5103.2 | 5257.5 | 5480.1 | 5725.2 | 6029.4 | 6097.5 | 6415.3 |
| 12.5° | 4796.7 | 4817.2 | 4837.6 | 4880.7 | 4994.2 | 5175.8 | 5441.4 | 5743.4 | 6122.4 | 6190.6 | 6601.4 |
| 15° | 4960.2 | 4985.2 | 4969.3 | 4957.9 | 5017.0 | 5182.6 | 5459.6 | 5809.2 | 6238.3 | 6335.8 | 6830.7 |
| 17.5° | 5337.0 | 5346.1 | 5309.8 | 5203.1 | 5194.0 | 5282.5 | 5545.9 | 5900.0 | 6383.5 | 6490.2 | 7062.2 |
| 20° | 5945.4 | 5929.5 | 5854.6 | 5643.4 | 5523.1 | 5505.0 | 5693.5 | 6036.2 | 6533.3 | 6646.8 | 7312.0 |
| 22.5° | 6771.7 | 6753.5 | 6603.8 | 6270.0 | 6002.2 | 5825.1 | 5906.8 | 6213.2 | 6701.3 | 6828.4 | 7554.9 |
| 25° | 7802.3 | 7777.4 | 7557.1 | 7103.1 | 6687.7 | 6249.6 | 6197.4 | 6447.0 | 6907.9 | 7026.0 | 7809.2 |
| 27.5° | 9005.4 | 8985.0 | 8746.7 | 8147.4 | 7548.1 | 6830.7 | 6558.4 | 6721.7 | 7123.5 | 7257.5 | 8095.1 |
| 30° | 10299.4 | 10358.4 | 9936.2 | 9291.5 | 8533.3 | 7589.0 | 7044.1 | 7060.0 | 7402.8 | 7523.1 | 8442.5 |
| 32.5° | 11820.4 | 11922.6 | 11414.1 | 10596.9 | 9561.7 | 8413.0 | 7657.1 | 7532.2 | 7809.2 | 7909.0 | 8880.6 |
| 35° | 13327.8 | 13443.5 | 13021.3 | 12117.8 | 10926.0 | 9384.6 | 8297.2 | 8074.7 | 8349.4 | 8458.4 | 9461.8 |
| 37.5° | 14630.8 | 14785.2 | 14567.2 | 13781.7 | 12385.7 | 10556.0 | 9132.6 | 8712.6 | 9014.6 | 9150.8 | 10242.7 |
| 40° | 15659.1 | 15895.3 | 15879.4 | 15389.0 | 14106.5 | 11977.0 | 10192.8 | 9500.4 | 9840.9 | 9988.4 | 11189.3 |
| 42.5° | 16494.5 | 16698.9 | 16875.9 | 16851.0 | 15902.1 | 13591.1 | 11439.0 | 10524.2 | 10783.0 | 10953.3 | 12254.0 |
| 45° | 17071.2 | 17289.1 | 17670.5 | 18081.3 | 17629.6 | 15318.6 | 12866.9 | 11738.7 | 11974.8 | 12231.3 | 13523.0 |
| 47.5° | 17586.4 | 17833.9 | 18328.8 | 18980.3 | 19096.1 | 17053.0 | 14431.1 | 13153.0 | 13368.7 | 13634.2 | 14796.5 |
| 50° | 17631.8 | 17845.2 | 18612.6 | 19536.5 | 20138.1 | 18719.3 | 16111.0 | 14739.8 | 14941.8 | 15225.6 | 16160.9 |
| 52.5° | 16535.4 | 16871.4 | 18210.8 | 19520.6 | 20617.1 | 20113.1 | 17779.4 | 16390.2 | 16617.1 | 16957.7 | 17572.8 |
| 55° | 12835.2 | 13327.8 | 17032.5 | 18912.2 | 20446.8 | 21014.3 | 19366.2 | 18145.0 | 18435.4 | 18791.9 | 18994.0 |
| 57.5° | 11055.3 | 11271.0 | 13520.7 | 17804.5 | 19670.5 | 21248.1 | 20705.6 | 19917.9 | 20385.5 | 20775.9 | 20496.7 |
| 60° | 9936.2 | 10115.5 | 11445.9 | 16081.4 | 18648.8 | 20878.1 | 21740.8 | 21570.5 | 22378.6 | 22844.1 | 22033.6 |
| 62.5° | 8737.6 | 8907.9 | 10117.9 | 13427.6 | 17341.3 | 20262.9 | 22394.5 | 23096.0 | 24421.8 | 24930.3 | 23481.9 |
| 65° | 7548.1 | 7693.3 | 8853.4 | 11282.4 | 15679.6 | 19647.7 | 22732.8 | 24415.0 | 26312.8 | 26839.4 | 24685.1 |
| 67.5° | 6222.4 | 6342.7 | 7439.1 | 9518.6 | 13659.2 | 18805.5 | 22900.8 | 25452.4 | 27958.6 | 28410.3 | 25279.9 |
| 70° | 4490.2 | 4583.3 | 5716.1 | 7527.7 | 11123.5 | 17357.1 | 22832.7 | 26187.9 | 28812.1 | 29173.0 | 24830.3 |
| 72.5° | 2122.6 | 2206.5 | 3536.9 | 4887.5 | 7856.8 | 14537.7 | 21454.7 | 25604.5 | 27945.0 | 27765.6 | 22079.0 |
| 75° | 1132.8 | 1205.4 | 2031.8 | 2681.0 | 4149.7 | 9965.8 | 17556.9 | 22056.3 | 23466.0 | 22594.3 | 16317.5 |
| 77.5° | 767.3 | 824.0 | 1257.7 | 1609.5 | 1895.5 | 4730.9 | 11284.6 | 15271.0 | 14692.1 | 13252.8 | 8172.3 |
| 80° | 608.3 | 667.4 | 1030.6 | 1089.7 | 917.2 | 1709.4 | 4662.8 | 7069.1 | 5078.3 | 4061.3 | 2324.6 |
| 82.5° | 467.6 | 533.5 | 867.2 | 790.0 | 499.4 | 701.5 | 1357.5 | 2236.0 | 1300.7 | 989.7 | 563.0 |
| 85° | 286.1 | 356.4 | 681.0 | 504.0 | 281.5 | 320.1 | 460.8 | 622.0 | 397.3 | 331.5 | 202.0 |
| 87.5° | 145.2 | 204.3 | 345.0 | 183.9 | 127.1 | 74.9 | 122.6 | 122.6 | 104.4 | 90.8 | 52.2 |
| 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° | 6183.7 | 6183.7 | 6183.7 | 6183.7 | 6183.7 | 6183.7 | 6183.7 | 6183.7 | 6183.7 | 6183.7 | 6183.7 |
| 2.5° | 6206.5 | 6251.9 | 6329.1 | 6401.6 | 6458.4 | 6513.0 | 6567.4 | 6596.9 | 6606.0 | 6642.3 | 6662.7 |
| 5° | 6279.2 | 6363.1 | 6513.0 | 6653.7 | 6742.2 | 6796.7 | 6835.3 | 6858.0 | 6862.5 | 6873.9 | 6892.0 |
| 7.5° | 6413.0 | 6547.0 | 6755.8 | 6896.6 | 6962.4 | 6957.9 | 6942.0 | 6885.2 | 6862.5 | 6842.1 | 6846.6 |
| 10° | 6601.4 | 6778.5 | 7035.1 | 7132.7 | 7091.8 | 6982.8 | 6842.1 | 6676.3 | 6599.2 | 6524.2 | 6501.6 |
| 12.5° | 6835.3 | 7060.0 | 7312.0 | 7307.4 | 7105.4 | 6826.2 | 6499.3 | 6245.0 | 6083.9 | 5968.1 | 5940.9 |
| 15° | 7119.0 | 7377.8 | 7570.8 | 7416.4 | 6973.8 | 6472.1 | 5993.1 | 5661.6 | 5516.3 | 5389.2 | 5375.6 |
| 17.5° | 7411.9 | 7688.8 | 7777.4 | 7382.4 | 6642.3 | 5947.7 | 5405.1 | 5144.1 | 5001.1 | 4932.9 | 4953.3 |
| 20° | 7698.0 | 7972.6 | 7900.0 | 7187.1 | 6138.3 | 5352.9 | 4869.4 | 4726.4 | 4696.9 | 4712.7 | 4705.9 |
| 22.5° | 7999.8 | 8245.0 | 7924.9 | 6810.3 | 5495.9 | 4744.5 | 4478.9 | 4483.5 | 4549.3 | 4596.9 | 4608.3 |
| 25° | 8308.5 | 8474.3 | 7859.1 | 6265.5 | 4805.8 | 4297.3 | 4231.5 | 4304.1 | 4433.5 | 4526.6 | 4551.5 |
| 27.5° | 8606.0 | 8678.6 | 7716.1 | 5591.3 | 4213.3 | 3977.2 | 3988.6 | 4138.4 | 4333.6 | 4463.1 | 4494.8 |
| 30° | 8941.9 | 8860.2 | 7441.4 | 4833.1 | 3802.4 | 3702.5 | 3797.8 | 3972.7 | 4167.9 | 4283.7 | 4310.9 |
| 32.5° | 9321.0 | 9016.8 | 7005.6 | 4131.6 | 3511.9 | 3482.3 | 3639.0 | 3752.5 | 3838.7 | 3872.8 | 3891.0 |
| 35° | 9793.3 | 9237.0 | 6447.0 | 3639.0 | 3250.8 | 3321.2 | 3471.0 | 3414.3 | 3380.1 | 3362.0 | 3380.1 |
| 37.5° | 10406.1 | 9534.4 | 5793.3 | 3318.8 | 3039.6 | 3205.4 | 3266.7 | 3089.7 | 2955.7 | 2889.9 | 2905.8 |
| 40° | 11143.9 | 9970.3 | 5164.5 | 3071.4 | 2905.8 | 3105.5 | 2998.8 | 2785.4 | 2615.2 | 2522.1 | 2528.9 |
| 42.5° | 11963.4 | 10426.6 | 4635.6 | 2885.3 | 2830.8 | 3023.7 | 2801.3 | 2547.0 | 2272.3 | 2242.9 | 2272.3 |
| 45° | 12823.8 | 10896.5 | 4274.6 | 2742.3 | 2794.5 | 2953.4 | 2687.8 | 2276.9 | 2081.7 | 2202.0 | 2265.6 |
| 47.5° | 13684.2 | 11327.8 | 4056.6 | 2635.6 | 2776.3 | 2874.0 | 2587.9 | 2127.1 | 1988.6 | 2163.4 | 2245.2 |
| 50° | 14642.1 | 11713.7 | 3959.1 | 2558.4 | 2755.9 | 2842.1 | 2438.1 | 2088.5 | 1891.0 | 2006.7 | 2093.0 |
| 52.5° | 15593.3 | 12013.4 | 3886.4 | 2481.2 | 2726.4 | 2817.2 | 2365.5 | 2043.1 | 1772.9 | 1779.8 | 1827.5 |
| 55° | 16542.3 | 12208.6 | 3807.0 | 2379.0 | 2660.6 | 2762.7 | 2358.6 | 1993.1 | 1684.4 | 1652.6 | 1675.4 |
| 57.5° | 17554.7 | 12319.9 | 3709.4 | 2265.6 | 2547.0 | 2624.2 | 2351.9 | 1954.6 | 1657.2 | 1604.9 | 1611.8 |
| 60° | 18585.3 | 12483.3 | 3582.2 | 2127.1 | 2394.9 | 2458.6 | 2336.0 | 1940.9 | 1641.3 | 1552.8 | 1559.5 |
| 62.5° | 19509.2 | 12540.1 | 3430.2 | 1995.5 | 2199.8 | 2295.1 | 2301.8 | 1929.6 | 1598.2 | 1446.1 | 1446.1 |
| 65° | 20115.3 | 12294.9 | 3164.5 | 1845.6 | 1988.6 | 2127.1 | 2236.0 | 1891.0 | 1521.0 | 1368.9 | 1368.9 |
| 67.5° | 20090.4 | 11595.7 | 2749.0 | 1652.6 | 1784.3 | 1940.9 | 2140.7 | 1825.1 | 1427.9 | 1273.6 | 1280.3 |
| 70° | 19155.1 | 10215.5 | 2222.4 | 1427.9 | 1559.5 | 1741.2 | 2018.1 | 1727.5 | 1316.6 | 1169.1 | 1182.7 |
| 72.5° | 16428.7 | 7995.3 | 1614.1 | 1164.6 | 1298.5 | 1534.6 | 1859.2 | 1609.5 | 1203.1 | 1076.0 | 1069.2 |
| 75° | 11736.5 | 5060.0 | 1094.2 | 894.4 | 1010.2 | 1300.7 | 1661.7 | 1471.0 | 1098.7 | 1080.6 | 1019.3 |
| 77.5° | 5995.3 | 2417.7 | 724.2 | 653.7 | 703.8 | 1026.1 | 1396.2 | 1314.4 | 1114.6 | 892.2 | 794.6 |
| 80° | 1950.1 | 892.2 | 456.3 | 445.0 | 467.6 | 683.3 | 1080.6 | 1078.3 | 844.5 | 606.1 | 535.8 |
| 82.5° | 622.0 | 383.7 | 297.4 | 286.1 | 274.7 | 429.1 | 753.7 | 853.5 | 569.8 | 383.7 | 381.4 |
| 85° | 247.4 | 229.3 | 174.8 | 161.1 | 115.8 | 202.0 | 395.0 | 567.5 | 424.6 | 277.0 | 283.7 |
| 87.5° | 90.8 | 90.8 | 47.7 | 34.0 | 25.0 | 68.1 | 106.7 | 170.3 | 242.9 | 143.0 | 140.7 |
| 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)