

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: P971360

Luminaire Tested: **NVN-SB6D-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6D-727-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59453.1 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

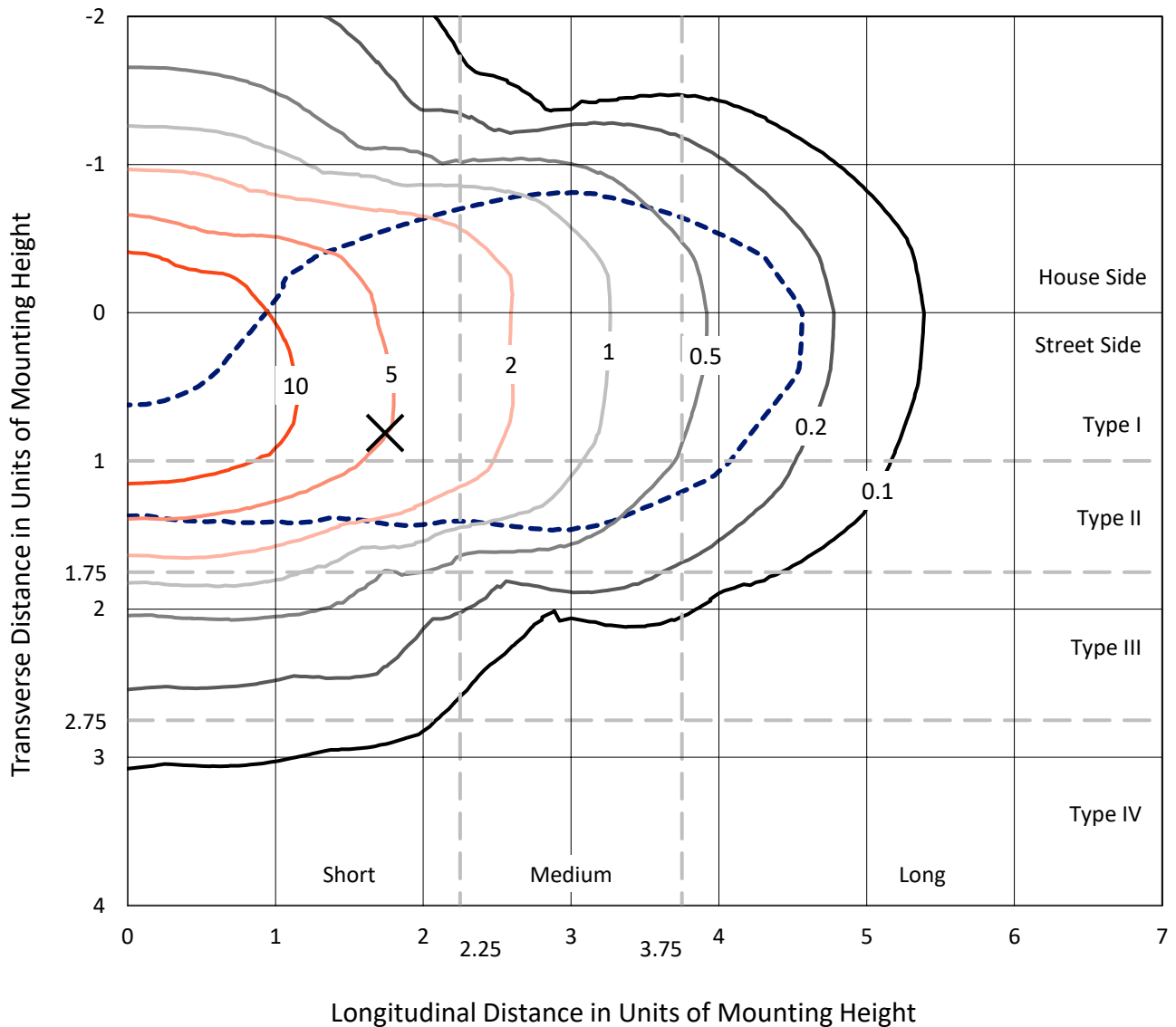
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

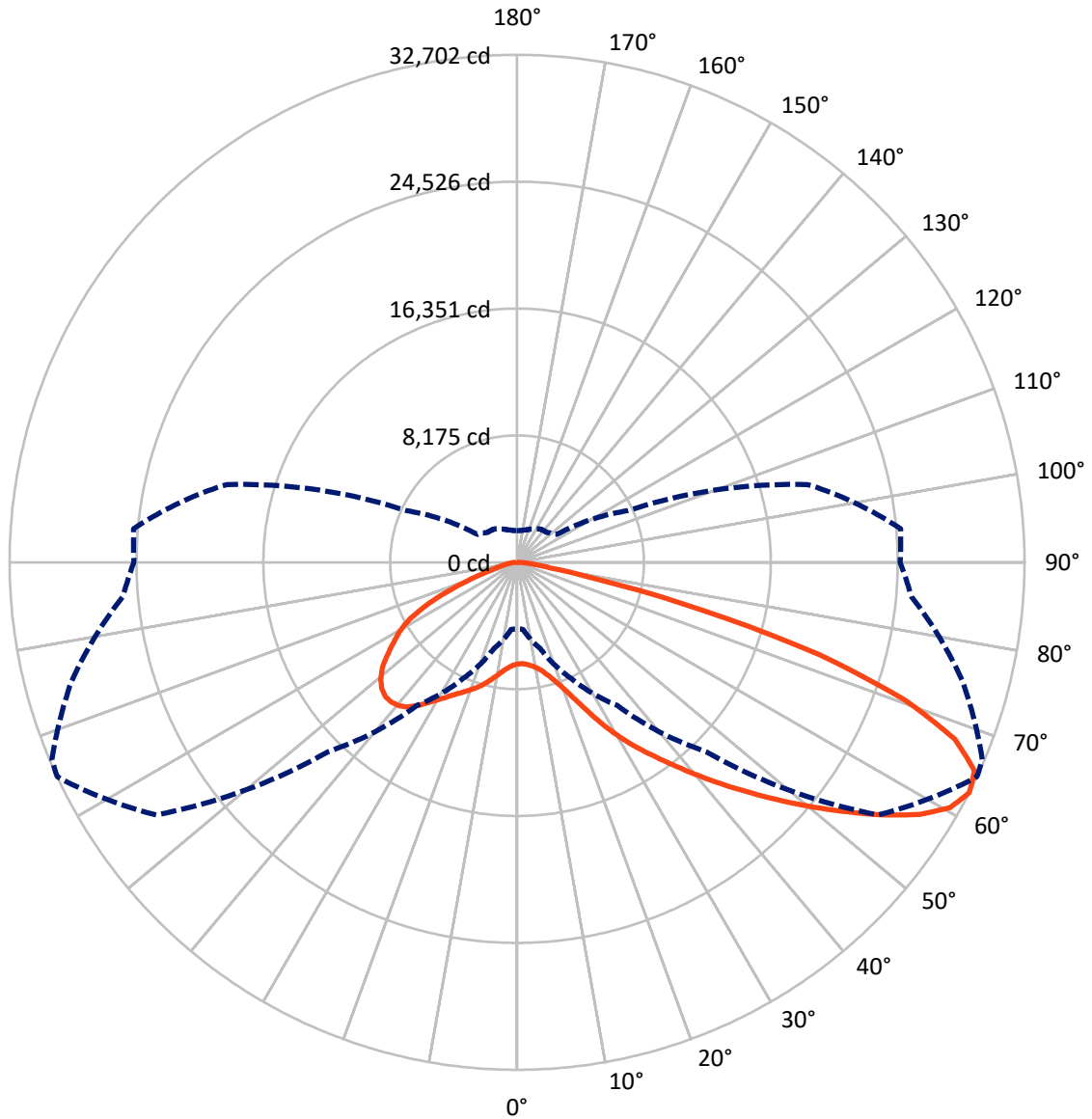
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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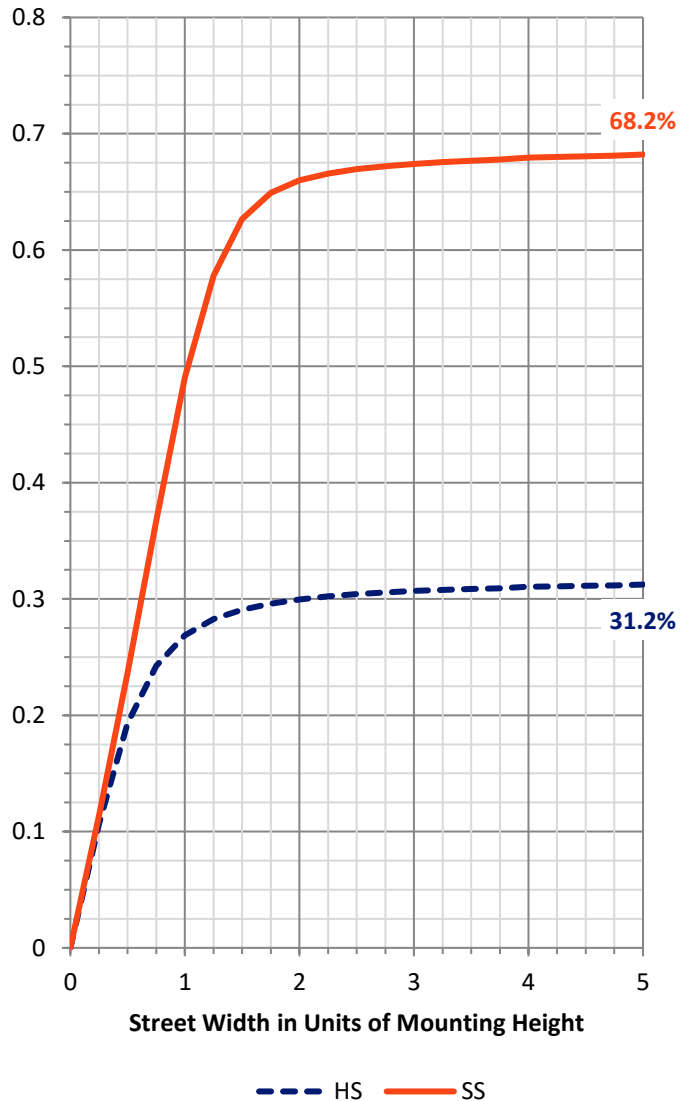
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 18760.8 | 0.0 | 18760.8 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 40692.3 | 0.0 | 40692.3 |
| | % Fixture | 68.4 | 0.0 | 68.4 |
| Total | Lumens | 59453.1 | 0.0 | 59453.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 653.2 | 1.1 |
| 10°-20° | 2215.0 | 3.7 |
| 20°-30° | 4491.1 | 7.6 |
| 30°-40° | 7771.8 | 13.1 |
| 40°-50° | 11761.1 | 19.8 |
| 50°-60° | 13789.1 | 23.2 |
| 60°-70° | 11560.5 | 19.4 |
| 70°-80° | 6382.3 | 10.7 |
| 80°-90° | 829.0 | 1.4 |
| 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° | 59453.1 | 100.0 |
| 0°-180° | 59453.1 | 100.0 |

Coefficient of Utilization

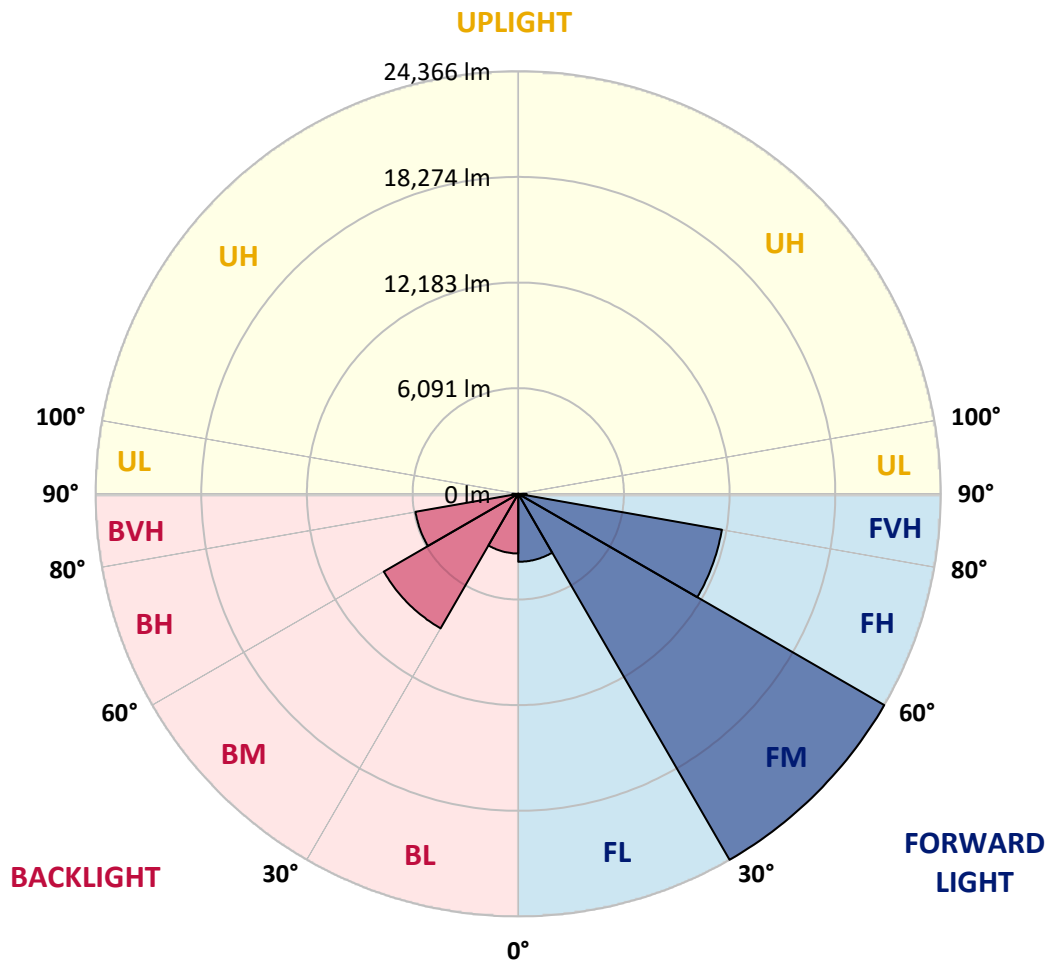


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3918.7 | 6.6 | | | |
| FM (30°-60°) | 24365.8 | 41.0 | | | |
| FH (60°-80°) | 11924.5 | 20.1 | | | G4/12000 |
| FVH (80°-90°) | 483.2 | 0.8 | | | G3/500 |
| BL (0°-30°) | 3440.5 | 5.8 | B4/5000 | | |
| BM (30°-60°) | 8956.1 | 15.1 | B5 | | |
| BH (60°-80°) | 6018.3 | 10.1 | B5 | | G5 |
| BVH (80°-90°) | 345.9 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5
 Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6551.5 | 6551.5 | 6551.5 | 6551.5 | 6551.5 | 6551.5 | 6551.5 | 6551.5 | 6551.5 | 6551.5 | 6551.5 |
| 2.5° | 6508.2 | 6489.8 | 6505.2 | 6505.2 | 6511.4 | 6508.2 | 6529.9 | 6536.0 | 6545.3 | 6563.8 | 6563.8 |
| 5° | 6443.6 | 6440.4 | 6468.2 | 6492.9 | 6517.6 | 6539.1 | 6566.9 | 6606.9 | 6613.2 | 6634.7 | 6662.5 |
| 7.5° | 6421.9 | 6403.4 | 6446.6 | 6477.5 | 6536.0 | 6588.5 | 6662.5 | 6730.4 | 6758.1 | 6767.4 | 6819.8 |
| 10° | 6588.5 | 6557.6 | 6597.7 | 6616.3 | 6665.6 | 6718.1 | 6804.4 | 6912.4 | 6943.2 | 6980.2 | 7038.8 |
| 12.5° | 6872.2 | 6838.3 | 6896.9 | 6924.7 | 6970.9 | 7017.3 | 7075.9 | 7180.7 | 7196.1 | 7264.0 | 7319.5 |
| 15° | 7260.9 | 7220.8 | 7257.8 | 7291.7 | 7368.8 | 7412.1 | 7470.6 | 7572.4 | 7572.4 | 7624.9 | 7664.9 |
| 17.5° | 7788.4 | 7735.9 | 7763.7 | 7776.1 | 7825.4 | 7890.1 | 7988.8 | 8078.3 | 8124.6 | 8106.0 | 8050.6 |
| 20° | 8574.9 | 8510.2 | 8510.2 | 8448.5 | 8429.9 | 8482.4 | 8611.9 | 8735.3 | 8784.7 | 8689.0 | 8553.3 |
| 22.5° | 9756.3 | 9663.7 | 9611.3 | 9401.5 | 9318.3 | 9324.4 | 9454.0 | 9605.2 | 9645.2 | 9475.6 | 9170.2 |
| 25° | 11258.4 | 11113.5 | 11042.5 | 10734.0 | 10545.9 | 10382.4 | 10484.2 | 10678.6 | 10734.0 | 10524.3 | 10030.8 |
| 27.5° | 12760.5 | 12769.9 | 12702.0 | 12331.8 | 12020.3 | 11721.1 | 11668.6 | 11872.3 | 11930.8 | 11693.3 | 11082.6 |
| 30° | 14867.3 | 14648.3 | 14518.7 | 14074.6 | 13630.3 | 13210.9 | 12994.9 | 13078.3 | 13093.7 | 12809.9 | 12100.4 |
| 32.5° | 16684.0 | 16628.5 | 16350.9 | 15962.2 | 15391.6 | 14734.7 | 14373.8 | 14241.1 | 14216.4 | 13812.4 | 12970.3 |
| 35° | 18753.7 | 18722.9 | 18429.9 | 17967.2 | 17350.3 | 16437.3 | 15786.4 | 15407.1 | 15376.2 | 14808.7 | 13830.8 |
| 37.5° | 20857.4 | 20857.4 | 20570.5 | 20064.7 | 19426.2 | 18284.9 | 17294.7 | 16693.3 | 16594.5 | 15854.3 | 14706.9 |
| 40° | 22535.3 | 22433.6 | 22485.9 | 22273.1 | 21542.1 | 20330.0 | 18969.7 | 18096.8 | 17964.1 | 17075.8 | 15638.4 |
| 42.5° | 23488.5 | 23454.6 | 23769.1 | 24006.6 | 23707.4 | 22738.9 | 20814.2 | 19617.4 | 19432.4 | 18420.6 | 16711.8 |
| 45° | 23701.3 | 23664.3 | 24225.7 | 25095.5 | 25514.9 | 25117.0 | 22819.1 | 21218.2 | 20993.1 | 19827.2 | 17862.4 |
| 47.5° | 23210.8 | 23136.8 | 23960.4 | 25333.0 | 26677.8 | 27378.0 | 24990.6 | 22954.9 | 22627.9 | 21196.7 | 19043.7 |
| 50° | 21736.5 | 21665.5 | 22911.6 | 24734.6 | 27069.5 | 28914.1 | 27347.1 | 24796.3 | 24296.6 | 22664.9 | 20237.4 |
| 52.5° | 18531.7 | 18565.6 | 20518.0 | 23022.7 | 26554.5 | 29870.2 | 29376.7 | 26736.4 | 26134.9 | 24167.0 | 21357.1 |
| 55° | 14435.5 | 14509.5 | 16909.2 | 19666.8 | 24494.0 | 29725.3 | 30761.7 | 28735.2 | 28136.8 | 25579.7 | 22513.7 |
| 57.5° | 10336.1 | 10663.1 | 12911.7 | 15641.5 | 20536.6 | 27427.4 | 31064.0 | 30635.2 | 30055.4 | 27122.0 | 23645.7 |
| 60° | 6699.5 | 6758.1 | 9071.5 | 11822.9 | 15638.4 | 23343.5 | 30450.2 | 32075.6 | 31622.3 | 28695.1 | 24592.7 |
| 62.5° | 4293.6 | 4333.7 | 5743.4 | 8269.5 | 11255.3 | 17270.1 | 28383.6 | 32701.8 | 32563.0 | 29734.5 | 25502.6 |
| 65° | 3155.5 | 3124.6 | 3858.7 | 5465.7 | 7581.7 | 10650.8 | 24370.6 | 32399.5 | 32674.0 | 30385.4 | 26255.3 |
| 67.5° | 2634.1 | 2591.0 | 2951.9 | 3784.7 | 5586.0 | 6048.7 | 18032.0 | 30434.7 | 31440.2 | 30311.3 | 26807.3 |
| 70° | 2399.7 | 2362.7 | 2581.8 | 2809.9 | 4358.4 | 4050.0 | 9090.0 | 26458.8 | 28007.2 | 29469.3 | 26718.0 |
| 72.5° | 2032.7 | 1967.9 | 2267.1 | 2495.4 | 3389.9 | 3106.1 | 3756.9 | 20323.7 | 22211.4 | 26770.3 | 25459.5 |
| 75° | 1576.1 | 1533.0 | 1789.0 | 2196.2 | 2547.8 | 2424.4 | 2375.0 | 12341.1 | 14401.6 | 20703.2 | 22273.1 |
| 77.5° | 1249.3 | 1190.6 | 1425.1 | 1711.9 | 2291.8 | 1829.1 | 1730.4 | 5314.6 | 7356.5 | 13217.1 | 16665.6 |
| 80° | 940.7 | 888.4 | 1082.7 | 1354.1 | 1761.3 | 1378.7 | 1119.7 | 2168.4 | 2772.9 | 6696.4 | 8380.6 |
| 82.5° | 669.3 | 623.1 | 755.7 | 993.2 | 1184.5 | 1236.9 | 687.9 | 1215.3 | 1366.4 | 2581.8 | 1872.3 |
| 85° | 428.8 | 401.0 | 505.8 | 623.1 | 752.7 | 795.8 | 419.5 | 635.4 | 697.1 | 1064.2 | 780.3 |
| 87.5° | 234.4 | 191.3 | 271.4 | 290.0 | 348.5 | 317.8 | 200.5 | 231.3 | 249.9 | 385.6 | 330.0 |
| 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° | 6551.5 | 6551.5 | 6551.5 | 6551.5 | 6551.5 | 6551.5 | 6551.5 | 6551.5 | 6551.5 | 6551.5 | 6551.5 |
| 2.5° | 6576.2 | 6585.4 | 6616.3 | 6625.5 | 6647.1 | 6674.8 | 6693.4 | 6711.9 | 6711.9 | 6730.4 | 6730.4 |
| 5° | 6665.6 | 6687.2 | 6752.0 | 6785.9 | 6841.5 | 6896.9 | 6930.8 | 6970.9 | 6995.6 | 7008.0 | 7014.2 |
| 7.5° | 6838.3 | 6872.2 | 6964.8 | 7023.4 | 7119.0 | 7196.1 | 7248.6 | 7304.0 | 7316.4 | 7350.4 | 7338.0 |
| 10° | 7072.7 | 7112.9 | 7217.7 | 7328.7 | 7442.9 | 7538.5 | 7587.9 | 7627.9 | 7643.4 | 7649.6 | 7634.1 |
| 12.5° | 7341.2 | 7399.7 | 7535.4 | 7671.1 | 7791.4 | 7874.8 | 7887.1 | 7877.8 | 7834.6 | 7797.6 | 7797.6 |
| 15° | 7671.1 | 7723.6 | 7874.8 | 8022.8 | 8140.0 | 8155.4 | 8078.3 | 8028.9 | 7976.6 | 7967.2 | 7967.2 |
| 17.5° | 8065.9 | 8093.7 | 8232.5 | 8377.5 | 8386.8 | 8334.3 | 8220.2 | 8174.0 | 8124.6 | 8090.6 | 8093.7 |
| 20° | 8525.5 | 8516.3 | 8615.0 | 8676.7 | 8611.9 | 8451.5 | 8278.8 | 8201.6 | 8152.3 | 8112.3 | 8115.3 |
| 22.5° | 9074.6 | 9003.6 | 8991.3 | 8975.9 | 8803.1 | 8466.9 | 8232.5 | 8133.8 | 8056.7 | 8001.2 | 8019.7 |
| 25° | 9873.5 | 9602.0 | 9413.9 | 9309.0 | 8920.4 | 8383.7 | 8084.5 | 7865.4 | 7720.5 | 7624.9 | 7661.9 |
| 27.5° | 10872.9 | 10416.4 | 9941.4 | 9685.3 | 8920.4 | 8214.0 | 7726.7 | 7371.9 | 7134.4 | 7035.7 | 7085.1 |
| 30° | 11825.9 | 11347.9 | 10647.7 | 10138.8 | 8898.7 | 7936.4 | 7149.9 | 6656.4 | 6378.8 | 6280.1 | 6338.6 |
| 32.5° | 12640.3 | 12119.0 | 11397.2 | 10635.3 | 8846.4 | 7486.1 | 6434.2 | 5888.3 | 5620.0 | 5502.7 | 5561.3 |
| 35° | 13395.9 | 12840.8 | 12149.8 | 11181.3 | 8707.6 | 6826.0 | 5647.7 | 5231.3 | 4932.1 | 4743.9 | 4805.6 |
| 37.5° | 14170.2 | 13510.1 | 12862.3 | 11674.9 | 8457.7 | 6054.9 | 5043.1 | 4688.5 | 4336.8 | 4083.9 | 4151.8 |
| 40° | 15012.3 | 14222.6 | 13624.2 | 11967.8 | 8047.5 | 5320.8 | 4574.3 | 4250.5 | 3877.2 | 3608.8 | 3661.3 |
| 42.5° | 15996.1 | 15077.0 | 14472.5 | 12119.0 | 7486.1 | 4799.5 | 4268.9 | 3951.3 | 3599.6 | 3380.7 | 3423.8 |
| 45° | 17023.3 | 16017.8 | 15246.7 | 12115.9 | 6859.9 | 4555.8 | 4170.2 | 3855.6 | 3467.0 | 3238.7 | 3275.7 |
| 47.5° | 18099.9 | 17001.8 | 15916.0 | 11918.5 | 6317.1 | 4589.7 | 4114.8 | 3649.0 | 3220.2 | 2998.1 | 3029.0 |
| 50° | 19179.4 | 18078.2 | 16563.8 | 11548.4 | 6085.7 | 4515.7 | 3908.0 | 3359.0 | 2853.2 | 2652.7 | 2665.0 |
| 52.5° | 20249.7 | 19222.5 | 17122.0 | 11020.9 | 5851.3 | 4241.1 | 3642.7 | 2982.7 | 2702.0 | 2563.2 | 2563.2 |
| 55° | 21326.3 | 20354.6 | 17729.7 | 10252.9 | 5265.2 | 3920.4 | 3198.6 | 2840.8 | 2581.8 | 2455.3 | 2442.9 |
| 57.5° | 22405.8 | 21662.5 | 18306.5 | 9484.8 | 4528.0 | 3525.6 | 2955.0 | 2668.1 | 2461.4 | 2353.5 | 2335.0 |
| 60° | 23528.6 | 23158.4 | 18901.8 | 8778.5 | 3800.1 | 3019.8 | 2776.0 | 2529.3 | 2319.6 | 2199.2 | 2190.0 |
| 62.5° | 24685.2 | 24805.5 | 19367.6 | 7868.5 | 3130.8 | 2711.2 | 2615.7 | 2362.7 | 2159.2 | 2045.0 | 2041.9 |
| 65° | 25851.2 | 26394.1 | 19672.9 | 6606.9 | 2538.5 | 2418.3 | 2442.9 | 2180.8 | 1974.0 | 1875.3 | 1872.3 |
| 67.5° | 26730.3 | 27538.4 | 19586.5 | 5000.0 | 2082.1 | 2140.6 | 2227.0 | 1989.5 | 1795.2 | 1718.1 | 1721.2 |
| 70° | 26829.0 | 27402.7 | 18735.3 | 3423.8 | 1742.7 | 1869.2 | 1986.4 | 1801.3 | 1600.8 | 1545.3 | 1548.5 |
| 72.5° | 25514.9 | 25552.0 | 16363.3 | 2236.2 | 1474.4 | 1640.9 | 1733.5 | 1610.1 | 1415.8 | 1360.3 | 1357.2 |
| 75° | 22069.6 | 21131.9 | 12014.1 | 1474.4 | 1233.8 | 1409.6 | 1496.0 | 1409.6 | 1221.5 | 1233.8 | 1190.6 |
| 77.5° | 16721.0 | 14966.0 | 7294.8 | 1048.8 | 1030.2 | 1184.5 | 1301.6 | 1239.9 | 1079.5 | 1212.2 | 1067.2 |
| 80° | 8615.0 | 8096.8 | 3254.2 | 783.5 | 814.3 | 946.9 | 1070.3 | 990.1 | 854.4 | 814.3 | 743.3 |
| 82.5° | 1974.0 | 2294.9 | 1283.2 | 561.4 | 589.2 | 681.6 | 817.4 | 743.3 | 613.8 | 518.2 | 512.0 |
| 85° | 691.0 | 755.7 | 567.5 | 351.7 | 345.4 | 425.7 | 555.2 | 496.6 | 416.5 | 333.1 | 351.7 |
| 87.5° | 219.0 | 286.9 | 212.8 | 141.9 | 148.0 | 191.3 | 256.0 | 234.4 | 194.3 | 126.5 | 132.6 |
| 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)