

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: P964506

Luminaire Tested: **NVN-SB3C-727-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3C-727-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18087.1 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

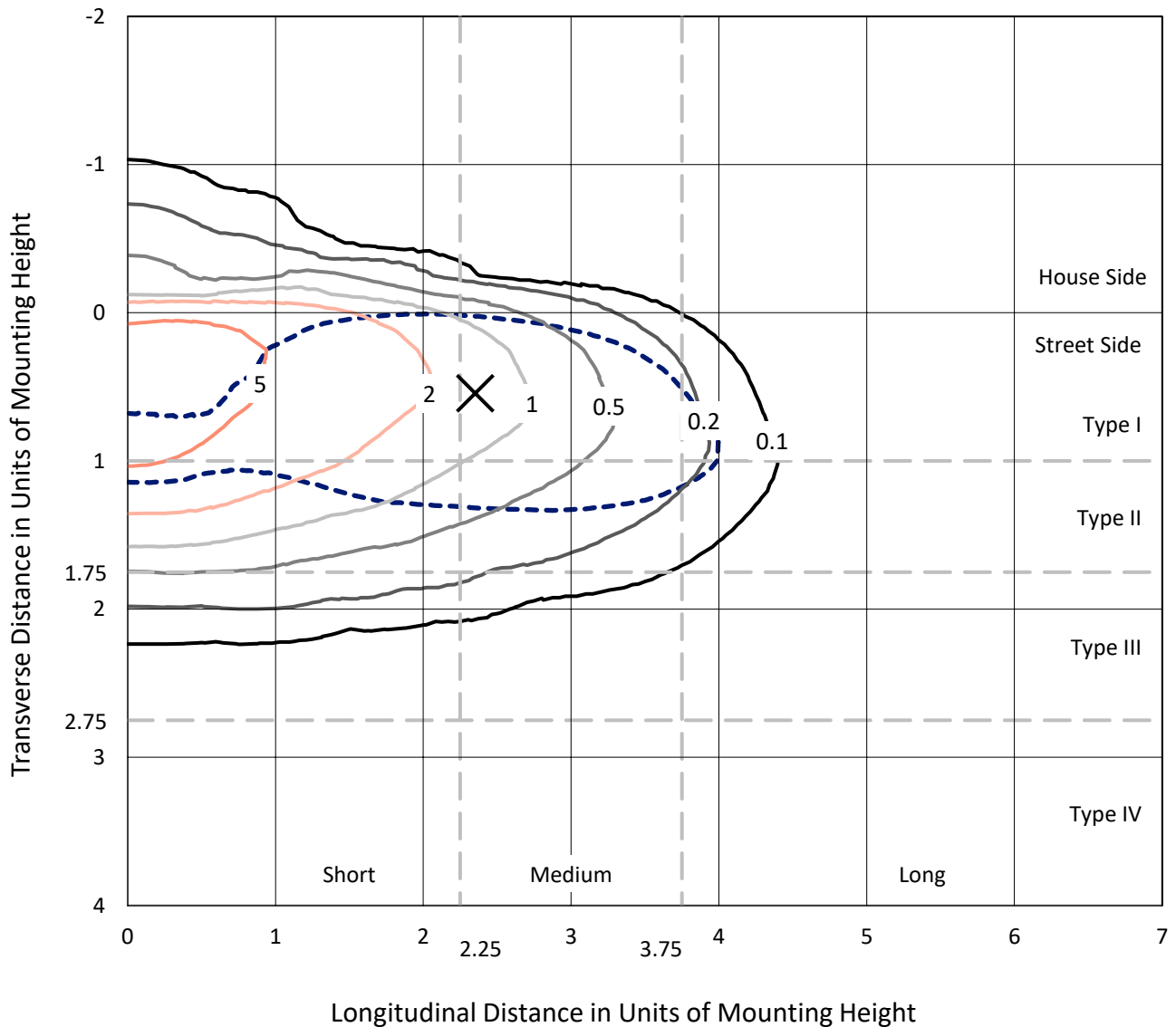
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

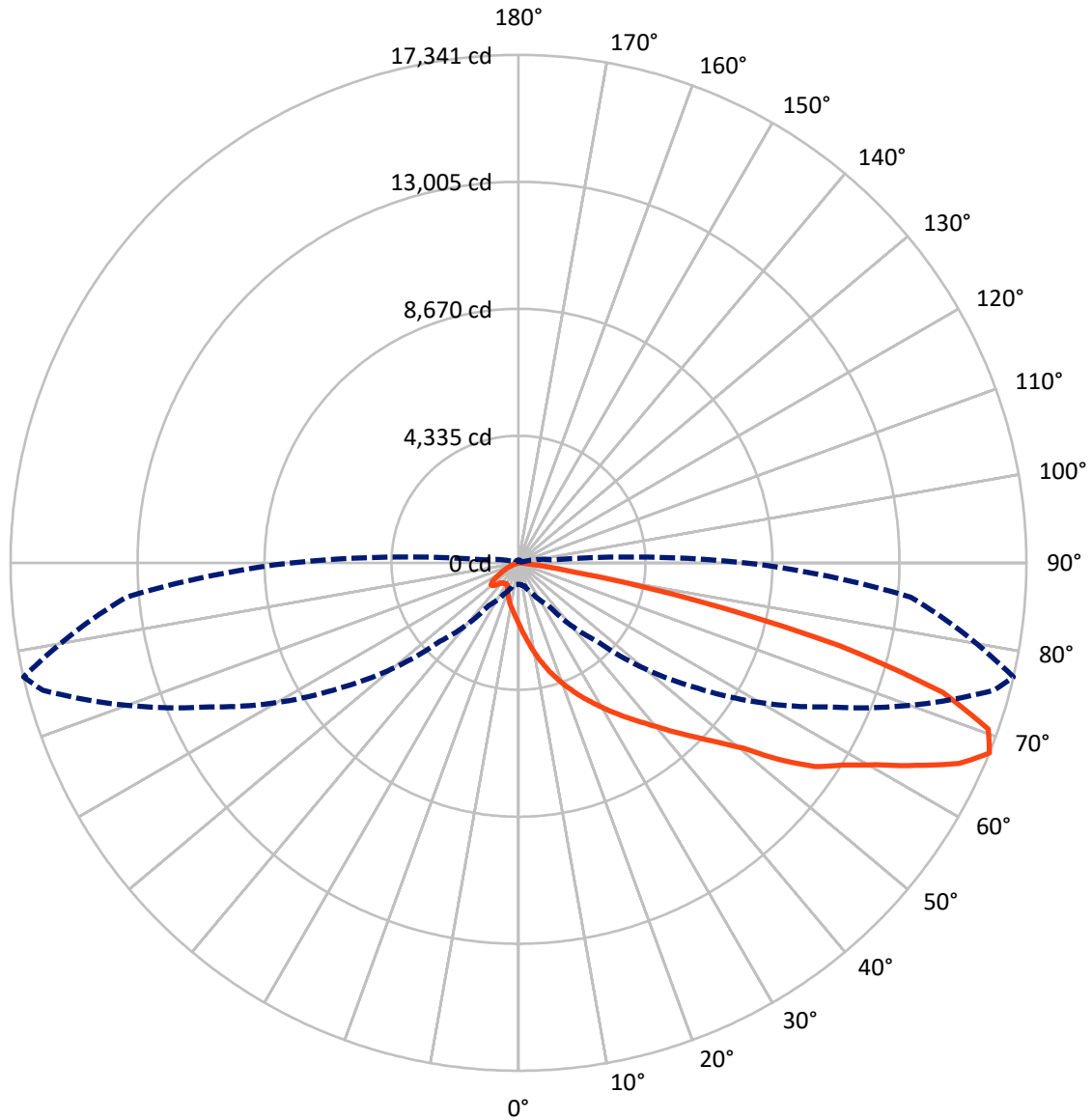
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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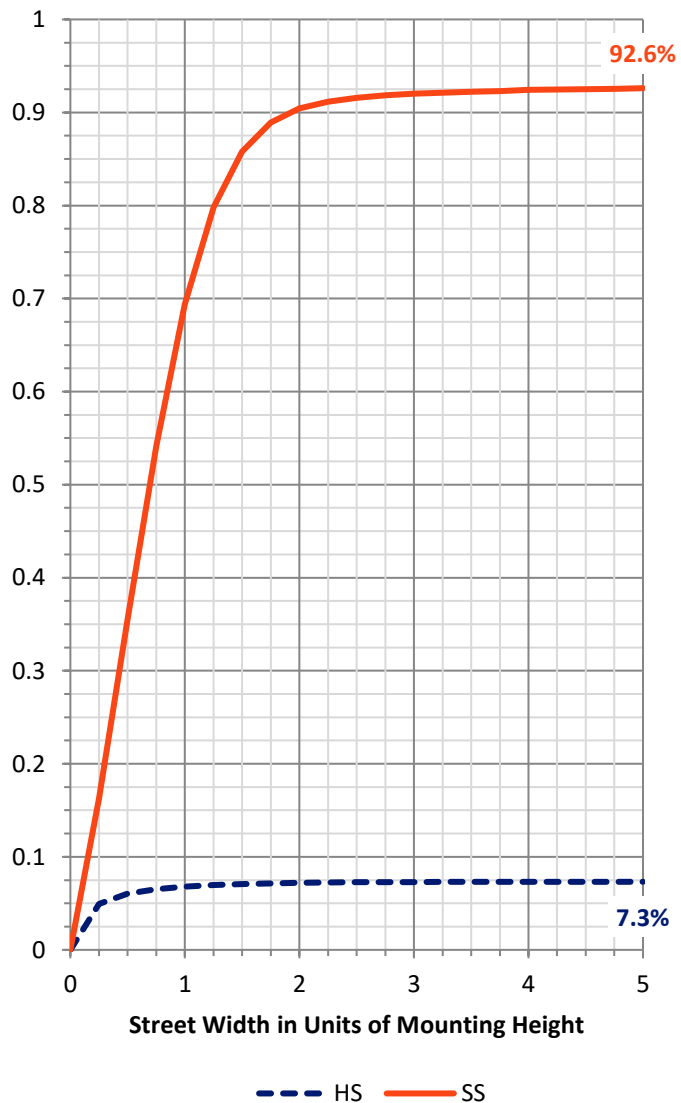
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1330.7 | 0.0 | 1330.7 |
| | % Fixture | 7.4 | 0.0 | 7.4 |
| Street Side | Lumens | 16756.5 | 0.0 | 16756.5 |
| | % Fixture | 92.6 | 0.0 | 92.6 |
| Total | Lumens | 18087.1 | 0.0 | 18087.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 212.9 | 1.2 |
| 10°-20° | 745.5 | 4.1 |
| 20°-30° | 1438.6 | 8.0 |
| 30°-40° | 2497.5 | 13.8 |
| 40°-50° | 3626.2 | 20.0 |
| 50°-60° | 4164.2 | 23.0 |
| 60°-70° | 3615.3 | 20.0 |
| 70°-80° | 1702.8 | 9.4 |
| 80°-90° | 84.2 | 0.5 |
| 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° | 18087.1 | 100.0 |
| 0°-180° | 18087.1 | 100.0 |

Coefficient of Utilization

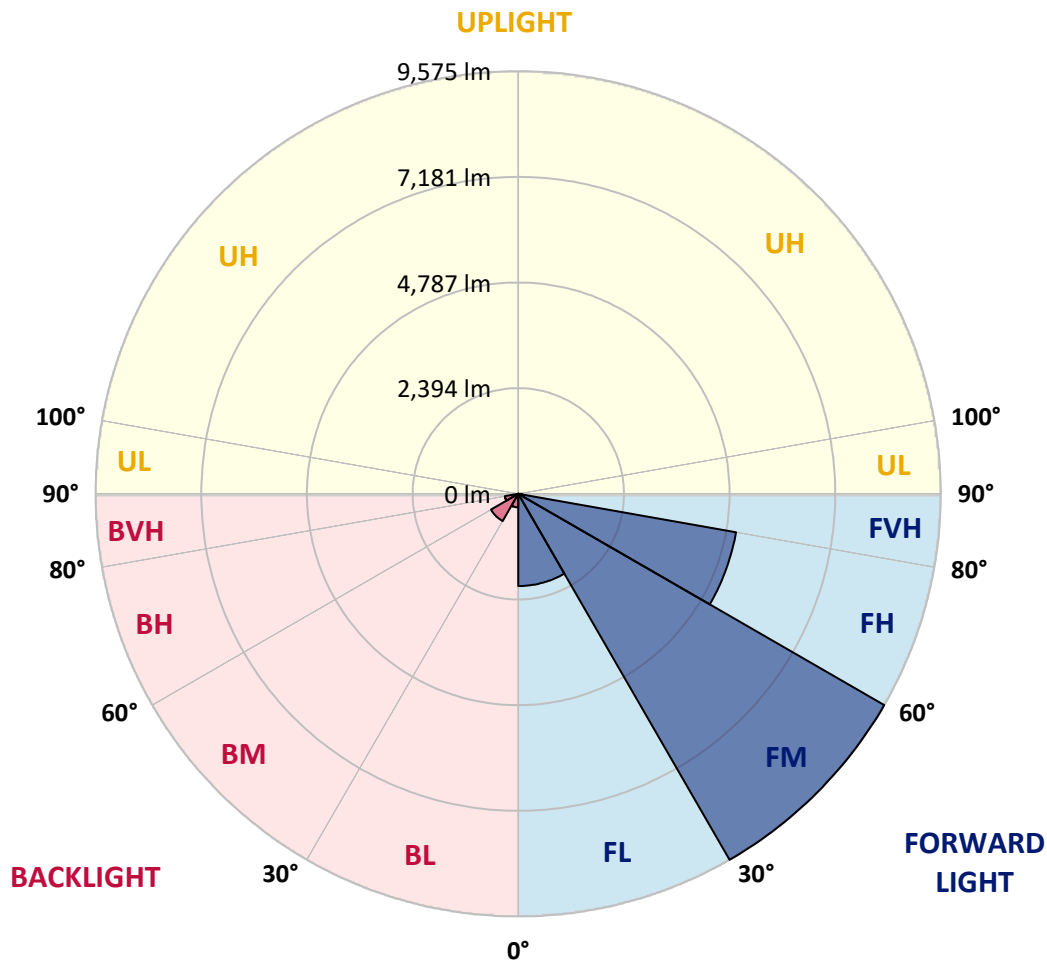


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2088.9 | 11.5 | | | |
| FM (30°-60°) | 9574.8 | 52.9 | | | |
| FH (60°-80°) | 5010.1 | 27.7 | | | G3/7500 |
| FVH (80°-90°) | 82.7 | 0.5 | | | G1/100 |
| BL (0°-30°) | 308.1 | 1.7 | B1/500 | | |
| BM (30°-60°) | 713.0 | 3.9 | B1/1000 | | |
| BH (60°-80°) | 308.1 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 2085.7 | 2085.7 | 2085.7 | 2085.7 | 2085.7 | 2085.7 | 2085.7 | 2085.7 | 2085.7 | 2085.7 | 2085.7 |
| 2.5° | 2887.6 | 2905.7 | 2879.8 | 2830.3 | 2756.2 | 2707.9 | 2590.0 | 2478.9 | 2355.2 | 2316.0 | 2192.4 |
| 5° | 3520.0 | 3535.7 | 3506.5 | 3452.6 | 3353.8 | 3259.4 | 3104.4 | 2871.9 | 2630.5 | 2553.0 | 2333.9 |
| 7.5° | 3988.4 | 3997.3 | 3986.1 | 3936.7 | 3842.3 | 3735.6 | 3562.7 | 3287.5 | 2929.2 | 2843.9 | 2508.1 |
| 10° | 4325.3 | 4354.5 | 4351.1 | 4332.1 | 4269.1 | 4182.6 | 3998.4 | 3685.1 | 3263.9 | 3153.8 | 2704.6 |
| 12.5° | 4548.8 | 4581.3 | 4600.5 | 4643.1 | 4639.8 | 4584.7 | 4423.0 | 4091.7 | 3597.4 | 3468.3 | 2925.9 |
| 15° | 4613.9 | 4648.8 | 4721.8 | 4820.6 | 4908.2 | 4936.3 | 4822.8 | 4490.4 | 3964.8 | 3799.7 | 3152.7 |
| 17.5° | 4576.9 | 4630.8 | 4718.4 | 4874.5 | 5066.6 | 5193.5 | 5181.2 | 4875.6 | 4298.3 | 4109.6 | 3375.1 |
| 20° | 4658.9 | 4710.6 | 4779.1 | 4910.5 | 5134.0 | 5364.2 | 5456.3 | 5244.0 | 4629.7 | 4432.0 | 3608.7 |
| 22.5° | 5112.6 | 5103.7 | 5110.3 | 5131.8 | 5265.4 | 5493.4 | 5683.2 | 5578.8 | 4957.6 | 4755.5 | 3855.8 |
| 25° | 5831.4 | 5791.0 | 5722.5 | 5606.9 | 5573.1 | 5683.2 | 5880.8 | 5875.3 | 5303.6 | 5086.8 | 4108.5 |
| 27.5° | 6655.8 | 6649.2 | 6488.6 | 6210.0 | 6052.7 | 6010.1 | 6104.4 | 6163.9 | 5646.1 | 5414.8 | 4362.4 |
| 30° | 7445.5 | 7463.4 | 7246.6 | 6936.7 | 6648.0 | 6480.7 | 6395.3 | 6437.9 | 5994.3 | 5768.6 | 4624.1 |
| 32.5° | 8132.9 | 8151.9 | 7916.1 | 7553.2 | 7196.1 | 6994.0 | 6814.2 | 6708.6 | 6374.0 | 6128.0 | 4911.6 |
| 35° | 8713.5 | 8732.6 | 8461.9 | 8060.9 | 7680.2 | 7497.2 | 7293.8 | 7005.2 | 6755.9 | 6526.7 | 5231.7 |
| 37.5° | 9232.4 | 9226.7 | 8864.0 | 8459.6 | 8085.6 | 7940.8 | 7834.1 | 7370.2 | 7149.0 | 6927.7 | 5586.7 |
| 40° | 9539.1 | 9562.6 | 9252.6 | 8806.7 | 8443.9 | 8338.4 | 8331.6 | 7822.8 | 7602.7 | 7388.2 | 5975.2 |
| 42.5° | 9628.8 | 9670.5 | 9445.8 | 9079.7 | 8750.5 | 8636.0 | 8812.3 | 8312.5 | 8130.6 | 7921.7 | 6414.3 |
| 45° | 9467.1 | 9507.6 | 9405.4 | 9151.5 | 8959.4 | 8885.3 | 9225.6 | 8820.2 | 8694.4 | 8487.7 | 6909.7 |
| 47.5° | 8995.4 | 9045.9 | 9070.6 | 9016.7 | 9014.5 | 9089.8 | 9596.4 | 9354.9 | 9363.8 | 9152.6 | 7483.6 |
| 50° | 8082.3 | 8167.6 | 8394.5 | 8585.5 | 8880.8 | 9251.4 | 9956.8 | 9934.4 | 10118.6 | 9936.7 | 8231.7 |
| 52.5° | 6422.2 | 6543.6 | 7325.3 | 7847.5 | 8511.3 | 9221.2 | 10353.3 | 10864.4 | 11442.8 | 11176.6 | 9286.3 |
| 55° | 5161.0 | 5161.0 | 5796.7 | 6773.8 | 7790.3 | 9021.2 | 10526.2 | 11468.6 | 12344.7 | 12281.8 | 10028.7 |
| 57.5° | 4207.4 | 4258.0 | 4663.3 | 5527.1 | 6746.9 | 8545.0 | 10632.9 | 11848.3 | 13071.4 | 13025.3 | 10754.3 |
| 60° | 2596.7 | 2705.7 | 3471.7 | 4324.2 | 5559.7 | 7697.0 | 10565.6 | 12232.3 | 13953.0 | 13990.1 | 11628.1 |
| 62.5° | 1462.4 | 1502.8 | 1844.3 | 3111.2 | 4323.0 | 6557.0 | 10050.0 | 12446.9 | 15080.7 | 15238.0 | 12528.9 |
| 65° | 1009.7 | 1029.9 | 1161.3 | 1936.3 | 2996.6 | 5220.4 | 9042.6 | 12313.2 | 16210.6 | 16528.4 | 13292.6 |
| 67.5° | 733.4 | 743.5 | 825.5 | 1182.6 | 1778.0 | 3785.0 | 7463.4 | 11639.4 | 16809.3 | 17340.5 | 13438.7 |
| 70° | 563.9 | 570.6 | 630.1 | 777.3 | 1050.1 | 2336.2 | 5420.4 | 10299.4 | 16375.7 | 17010.3 | 12690.6 |
| 72.5° | 458.3 | 464.9 | 511.1 | 575.0 | 696.4 | 1381.5 | 3285.2 | 8364.2 | 14461.8 | 15146.9 | 10803.7 |
| 75° | 386.3 | 395.3 | 437.0 | 478.5 | 545.8 | 887.3 | 1541.0 | 5824.8 | 10875.6 | 11324.8 | 7512.8 |
| 77.5° | 214.5 | 197.7 | 355.0 | 396.5 | 460.5 | 561.6 | 721.1 | 3427.9 | 6091.0 | 6215.6 | 3333.5 |
| 80° | 133.7 | 138.2 | 281.9 | 319.0 | 353.8 | 283.0 | 330.3 | 1319.7 | 2111.5 | 2005.9 | 645.9 |
| 82.5° | 7.9 | 17.9 | 216.8 | 230.2 | 242.6 | 121.3 | 124.6 | 448.1 | 508.8 | 467.2 | 114.6 |
| 85° | 0.0 | 0.0 | 98.8 | 79.7 | 84.3 | 34.8 | 36.0 | 104.4 | 68.5 | 74.1 | 22.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.3 | 0.0 | 3.4 | 6.8 | 9.0 | 3.4 | 4.5 | 7.9 |
| 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° | 2085.7 | 2085.7 | 2085.7 | 2085.7 | 2085.7 | 2085.7 | 2085.7 | 2085.7 | 2085.7 | 2085.7 | 2085.7 |
| 2.5° | 2113.8 | 2035.1 | 1875.6 | 1719.5 | 1592.6 | 1474.7 | 1390.5 | 1310.8 | 1270.3 | 1268.0 | 1265.8 |
| 5° | 2177.8 | 2012.7 | 1693.7 | 1411.8 | 1184.9 | 1003.0 | 885.1 | 800.8 | 758.1 | 743.5 | 741.3 |
| 7.5° | 2267.7 | 2019.5 | 1534.2 | 1142.3 | 874.9 | 718.8 | 651.4 | 624.4 | 615.5 | 605.4 | 603.1 |
| 10° | 2381.1 | 2035.1 | 1391.6 | 919.8 | 689.6 | 611.0 | 584.0 | 572.8 | 566.1 | 559.3 | 557.1 |
| 12.5° | 2508.1 | 2049.8 | 1250.1 | 763.7 | 606.5 | 566.1 | 546.9 | 533.5 | 524.5 | 516.7 | 514.4 |
| 15° | 2631.6 | 2058.7 | 1102.9 | 654.8 | 563.9 | 531.3 | 511.1 | 496.4 | 484.1 | 475.1 | 474.0 |
| 17.5° | 2754.0 | 2071.1 | 964.8 | 589.7 | 529.0 | 496.4 | 476.2 | 458.3 | 448.1 | 438.0 | 437.0 |
| 20° | 2889.9 | 2068.9 | 834.6 | 543.7 | 494.2 | 461.7 | 440.2 | 423.4 | 413.3 | 402.1 | 401.0 |
| 22.5° | 3015.7 | 2057.6 | 720.0 | 504.3 | 458.3 | 426.8 | 403.2 | 386.3 | 376.3 | 367.3 | 366.1 |
| 25° | 3160.6 | 2048.7 | 624.4 | 468.3 | 424.6 | 393.1 | 367.3 | 351.6 | 340.3 | 332.4 | 331.4 |
| 27.5° | 3299.9 | 2035.1 | 554.8 | 435.8 | 392.0 | 361.6 | 336.9 | 319.0 | 308.8 | 303.3 | 303.3 |
| 30° | 3436.9 | 2031.8 | 529.0 | 404.4 | 362.7 | 332.4 | 307.7 | 290.9 | 283.0 | 280.7 | 279.6 |
| 32.5° | 3602.0 | 2040.8 | 540.3 | 393.1 | 335.8 | 305.4 | 281.9 | 269.6 | 261.7 | 261.7 | 261.7 |
| 35° | 3778.4 | 2038.5 | 557.1 | 403.2 | 317.9 | 278.6 | 260.6 | 252.7 | 244.9 | 244.9 | 244.9 |
| 37.5° | 3999.6 | 2041.9 | 570.6 | 420.0 | 311.1 | 256.0 | 246.0 | 235.9 | 231.3 | 231.3 | 231.3 |
| 40° | 4329.8 | 2153.1 | 563.9 | 434.7 | 308.8 | 240.4 | 220.2 | 216.8 | 213.4 | 213.4 | 213.4 |
| 42.5° | 4734.2 | 2394.6 | 572.8 | 435.8 | 307.7 | 229.1 | 202.1 | 208.9 | 201.0 | 199.9 | 198.8 |
| 45° | 5176.7 | 2658.5 | 630.1 | 412.2 | 306.6 | 223.6 | 193.2 | 201.0 | 188.7 | 188.7 | 188.7 |
| 47.5° | 5615.8 | 2920.2 | 688.5 | 378.5 | 303.3 | 222.4 | 185.3 | 180.8 | 177.4 | 178.6 | 178.6 |
| 50° | 6221.2 | 3133.6 | 710.9 | 332.4 | 295.4 | 220.2 | 170.8 | 171.9 | 169.6 | 171.9 | 171.9 |
| 52.5° | 6880.5 | 3178.5 | 684.0 | 280.7 | 273.0 | 213.4 | 160.6 | 165.1 | 164.0 | 166.3 | 166.3 |
| 55° | 7291.5 | 3130.2 | 565.0 | 233.6 | 238.1 | 186.4 | 150.5 | 159.5 | 159.5 | 159.5 | 159.5 |
| 57.5° | 7716.1 | 2924.7 | 401.0 | 189.8 | 197.7 | 152.7 | 141.6 | 153.9 | 152.7 | 151.6 | 151.6 |
| 60° | 8021.6 | 2592.2 | 263.9 | 156.1 | 157.2 | 125.8 | 131.4 | 144.9 | 143.8 | 138.2 | 138.2 |
| 62.5° | 8249.6 | 2225.0 | 169.6 | 132.5 | 120.1 | 113.5 | 120.1 | 131.4 | 126.9 | 114.6 | 112.3 |
| 65° | 8223.8 | 1716.2 | 130.3 | 113.5 | 98.8 | 98.8 | 104.4 | 114.6 | 101.1 | 80.9 | 78.6 |
| 67.5° | 7744.2 | 1161.3 | 107.8 | 95.4 | 83.1 | 82.0 | 86.5 | 95.4 | 86.5 | 68.5 | 66.3 |
| 70° | 6887.3 | 759.2 | 86.5 | 74.1 | 66.3 | 60.7 | 69.6 | 82.0 | 73.0 | 55.0 | 52.8 |
| 72.5° | 5589.9 | 462.8 | 65.2 | 53.9 | 48.3 | 39.4 | 55.0 | 67.3 | 58.4 | 40.4 | 38.2 |
| 75° | 3616.6 | 235.9 | 44.9 | 34.8 | 25.8 | 23.6 | 40.4 | 50.5 | 40.4 | 24.7 | 21.3 |
| 77.5° | 1383.7 | 98.8 | 24.7 | 15.7 | 13.4 | 11.3 | 22.4 | 30.3 | 16.8 | 5.6 | 4.5 |
| 80° | 266.2 | 41.5 | 12.4 | 7.9 | 6.8 | 4.5 | 3.4 | 2.3 | 0.0 | 0.0 | 0.0 |
| 82.5° | 46.0 | 13.4 | 4.5 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 15.7 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.6 | 0.0 | 0.0 | 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 | 0.0 |

(END OF REPORT)