

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: P968919

Luminaire Tested: **NVN-SB5C-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5C-827-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25973.5 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

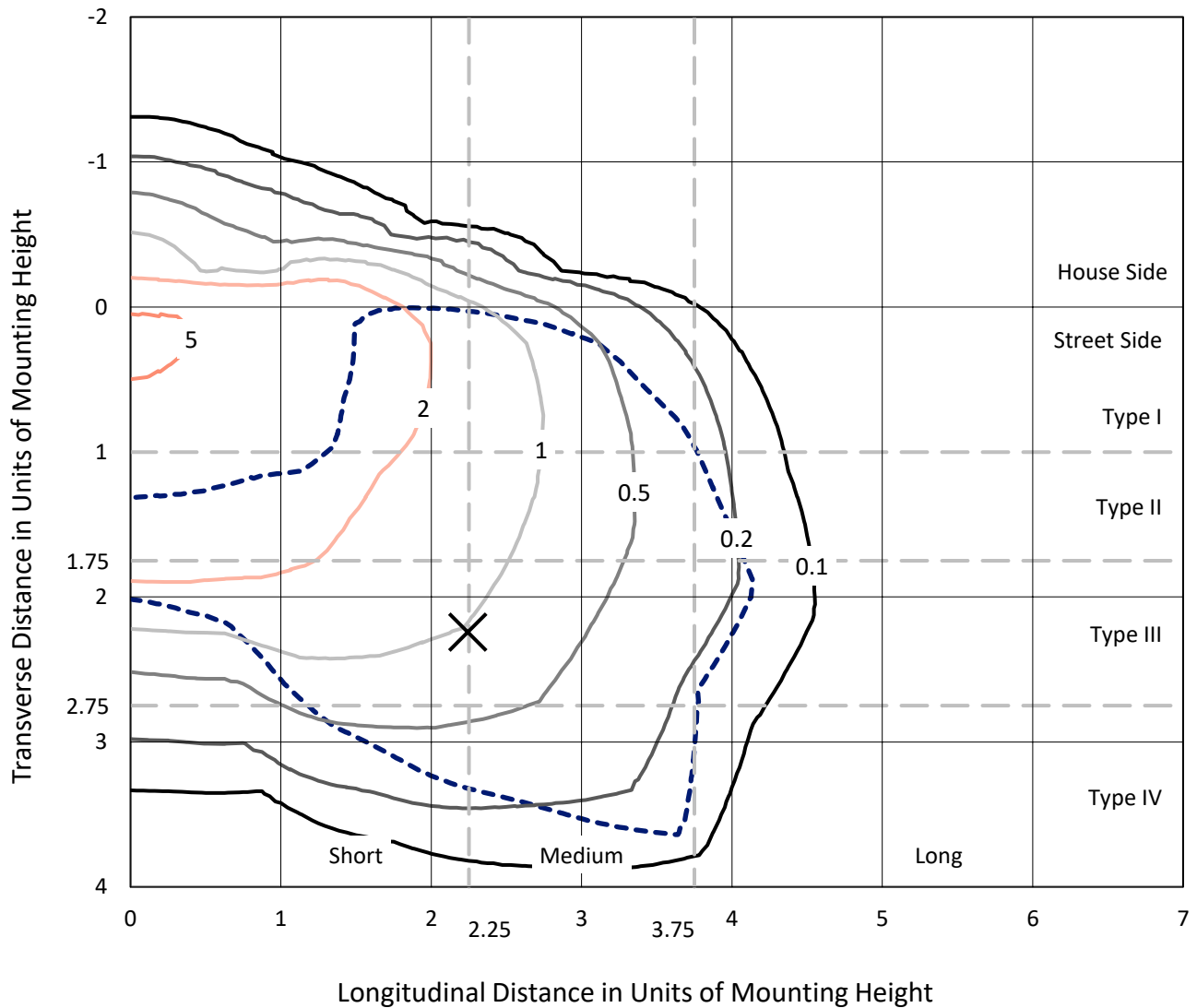
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

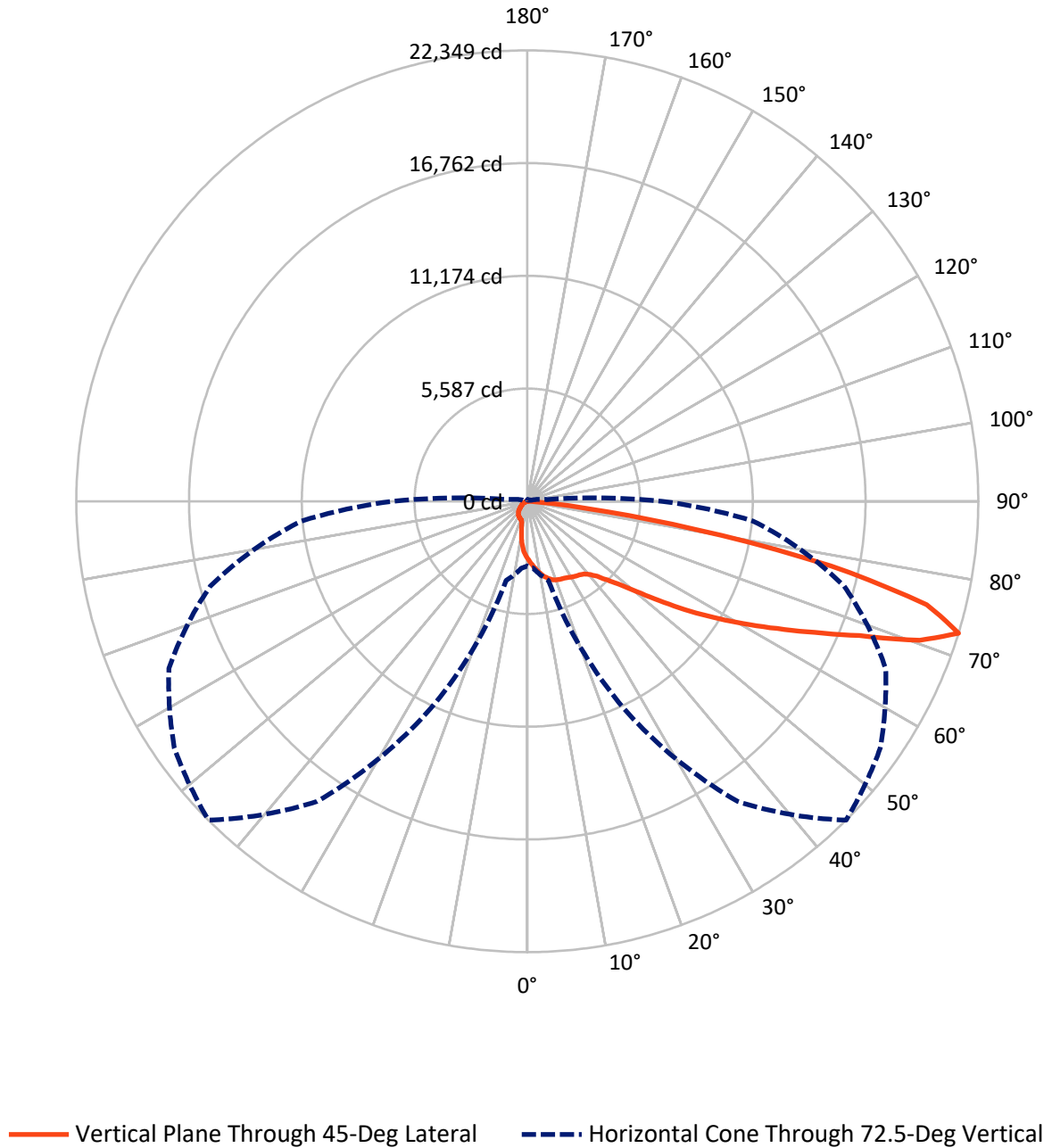
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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 | 2729.1 | 0.0 | 2729.1 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 23244.4 | 0.0 | 23244.4 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 25973.5 | 0.0 | 25973.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 268.1 | 1.0 |
| 10°-20° | 783.5 | 3.0 |
| 20°-30° | 1286.7 | 5.0 |
| 30°-40° | 1824.8 | 7.0 |
| 40°-50° | 3016.3 | 11.6 |
| 50°-60° | 5418.4 | 20.9 |
| 60°-70° | 7523.7 | 29.0 |
| 70°-80° | 5457.5 | 21.0 |
| 80°-90° | 394.6 | 1.5 |
| 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° | 25973.5 | 100.0 |
| 0°-180° | 25973.5 | 100.0 |

Coefficient of Utilization



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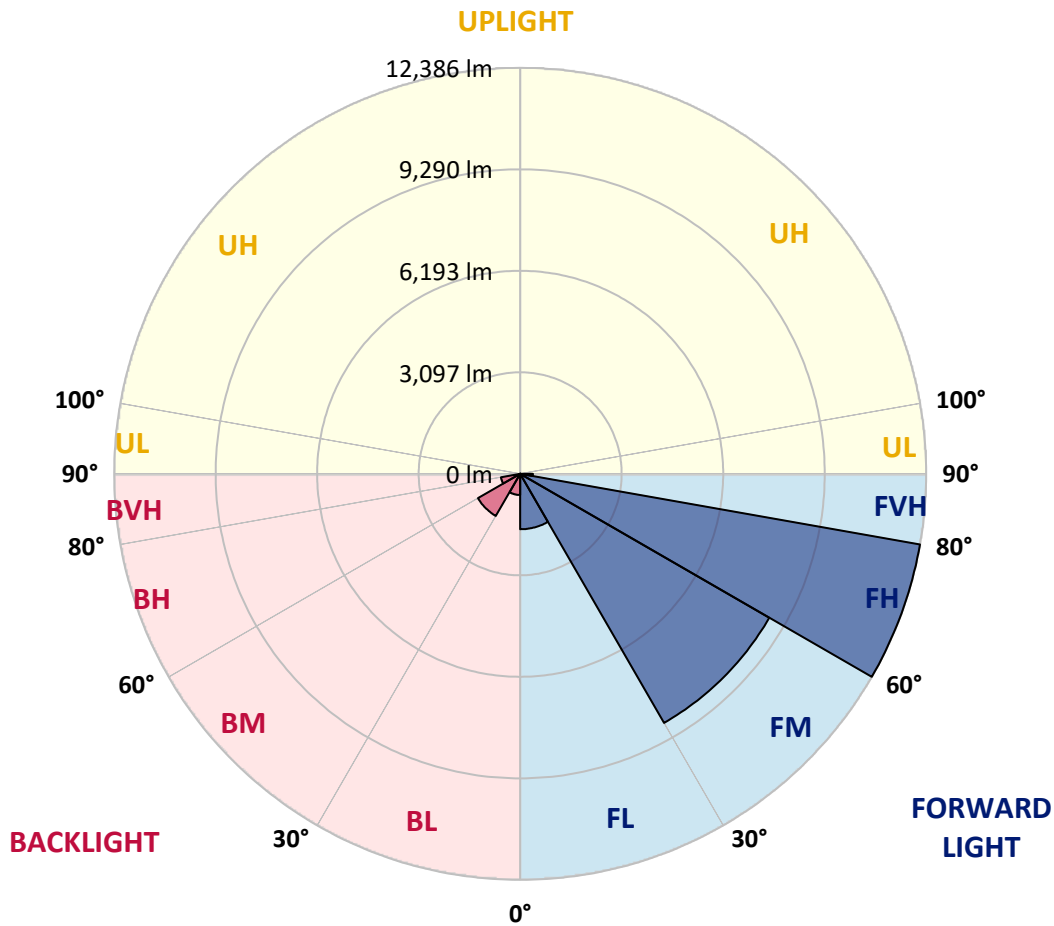
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1691.9 | 6.5 | | | |
| FM (30°-60°) | 8775.2 | 33.8 | | | |
| FH (60°-80°) | 12386.0 | 47.7 | | | G5 |
| FVH (80°-90°) | 391.2 | 1.5 | | | G3/500 |
| BL (0°-30°) | 646.4 | 2.5 | B2/1000 | | |
| BM (30°-60°) | 1484.2 | 5.7 | B2/2500 | | |
| BH (60°-80°) | 595.1 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 3.3 | 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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2845.5 | 2845.5 | 2845.5 | 2845.5 | 2845.5 | 2845.5 | 2845.5 | 2845.5 | 2845.5 | 2845.5 | 2845.5 |
| 2.5° | 3107.8 | 3113.1 | 3109.6 | 3088.3 | 3052.9 | 3033.4 | 3022.7 | 2987.3 | 2964.2 | 2923.5 | 2880.9 |
| 5° | 3393.3 | 3414.6 | 3402.2 | 3359.5 | 3292.2 | 3244.3 | 3230.2 | 3157.5 | 3091.9 | 3015.7 | 2927.0 |
| 7.5° | 3696.5 | 3707.0 | 3684.1 | 3629.0 | 3538.6 | 3457.1 | 3444.7 | 3343.7 | 3239.0 | 3122.0 | 3001.5 |
| 10° | 3958.9 | 3971.3 | 3935.8 | 3855.9 | 3753.1 | 3652.1 | 3634.3 | 3522.7 | 3398.6 | 3255.0 | 3100.7 |
| 12.5° | 4178.6 | 4191.0 | 4145.0 | 4049.3 | 3935.8 | 3831.1 | 3813.4 | 3696.5 | 3559.9 | 3400.3 | 3208.9 |
| 15° | 4345.3 | 4368.3 | 4306.3 | 4203.4 | 4081.1 | 3976.6 | 3967.7 | 3852.5 | 3719.5 | 3542.2 | 3338.3 |
| 17.5° | 4442.8 | 4465.8 | 4407.4 | 4283.3 | 4178.6 | 4090.0 | 4079.4 | 3983.7 | 3859.5 | 3689.4 | 3464.2 |
| 20° | 4458.8 | 4480.1 | 4418.0 | 4309.8 | 4223.0 | 4152.1 | 4146.7 | 4077.6 | 3987.1 | 3824.1 | 3600.7 |
| 22.5° | 4410.9 | 4437.5 | 4380.7 | 4293.9 | 4233.6 | 4196.3 | 4189.3 | 4150.3 | 4098.9 | 3960.6 | 3728.3 |
| 25° | 4361.3 | 4382.5 | 4340.0 | 4263.8 | 4231.8 | 4228.3 | 4233.6 | 4226.5 | 4215.9 | 4098.9 | 3877.3 |
| 27.5° | 4357.7 | 4380.7 | 4332.9 | 4260.2 | 4242.5 | 4279.7 | 4285.0 | 4318.7 | 4327.5 | 4224.7 | 4020.9 |
| 30° | 4387.8 | 4403.8 | 4357.7 | 4281.4 | 4272.6 | 4357.7 | 4359.5 | 4419.8 | 4433.9 | 4331.1 | 4162.7 |
| 32.5° | 4453.4 | 4471.2 | 4425.0 | 4313.4 | 4301.0 | 4419.8 | 4425.0 | 4504.9 | 4527.9 | 4444.6 | 4311.7 |
| 35° | 4607.7 | 4629.0 | 4575.8 | 4402.1 | 4357.7 | 4478.2 | 4494.2 | 4588.2 | 4634.2 | 4565.1 | 4465.8 |
| 37.5° | 4992.4 | 4930.4 | 4857.7 | 4581.1 | 4487.1 | 4570.5 | 4597.0 | 4707.0 | 4788.5 | 4708.7 | 4650.2 |
| 40° | 5948.0 | 5752.9 | 5526.0 | 4886.1 | 4714.1 | 4767.3 | 4788.5 | 4898.5 | 5010.1 | 4932.1 | 4903.7 |
| 42.5° | 7382.3 | 7151.7 | 6786.5 | 5588.1 | 5056.2 | 5082.8 | 5098.8 | 5194.5 | 5352.2 | 5290.2 | 5297.3 |
| 45° | 8660.4 | 8577.1 | 8204.8 | 6786.5 | 5696.2 | 5565.0 | 5584.5 | 5634.2 | 5866.4 | 5843.3 | 5889.4 |
| 47.5° | 9642.6 | 9594.7 | 9307.5 | 8162.3 | 6777.7 | 6155.4 | 6210.4 | 6233.4 | 6568.5 | 6650.0 | 6774.1 |
| 50° | 10397.9 | 10380.2 | 10123.1 | 9385.5 | 8190.7 | 7025.9 | 7045.3 | 6995.7 | 7497.5 | 7699.6 | 7935.3 |
| 52.5° | 11110.6 | 11170.9 | 10981.1 | 10521.9 | 9699.4 | 8165.9 | 8162.3 | 7928.3 | 8605.5 | 8910.4 | 9312.8 |
| 55° | 11754.1 | 11775.4 | 11794.9 | 11681.4 | 11216.9 | 9463.5 | 9429.9 | 9047.0 | 9890.8 | 10206.4 | 10642.5 |
| 57.5° | 12358.6 | 12367.5 | 12541.3 | 12773.6 | 12796.5 | 10857.0 | 10795.0 | 10335.8 | 11295.0 | 11520.1 | 11787.8 |
| 60° | 12764.6 | 12805.4 | 13172.4 | 13817.7 | 14099.6 | 12294.9 | 12261.2 | 11793.1 | 12723.8 | 12828.5 | 12778.8 |
| 62.5° | 12179.6 | 12427.8 | 13353.2 | 14633.2 | 15330.0 | 13888.6 | 13872.7 | 13433.0 | 14227.3 | 14142.1 | 13716.7 |
| 65° | 9859.0 | 10279.1 | 11906.6 | 15184.7 | 16537.4 | 15668.6 | 15691.6 | 15223.6 | 15771.5 | 15494.8 | 14479.0 |
| 67.5° | 6896.4 | 7339.7 | 9265.0 | 15228.9 | 17886.5 | 17758.8 | 17891.8 | 17157.8 | 17411.4 | 16790.8 | 14659.9 |
| 70° | 4769.0 | 4997.7 | 6251.2 | 14275.2 | 18937.8 | 20638.0 | 20634.4 | 19533.4 | 19042.3 | 17381.2 | 13738.0 |
| 72.5° | 3207.1 | 3325.9 | 4059.8 | 11325.1 | 18164.8 | 22348.8 | 22246.0 | 21348.9 | 19592.0 | 16255.4 | 11224.1 |
| 75° | 1352.7 | 1439.6 | 1879.2 | 6364.6 | 14370.9 | 20446.5 | 20168.1 | 18866.9 | 17407.8 | 12800.1 | 7002.8 |
| 77.5° | 429.1 | 466.3 | 741.1 | 2278.2 | 7915.9 | 15369.0 | 15074.7 | 11782.5 | 11667.3 | 6421.3 | 2560.0 |
| 80° | 203.9 | 237.6 | 416.7 | 914.8 | 3115.0 | 8359.1 | 8318.3 | 5345.2 | 5019.0 | 1733.9 | 514.1 |
| 82.5° | 88.7 | 104.6 | 230.5 | 489.3 | 1393.5 | 2981.9 | 3042.2 | 1819.0 | 1505.2 | 657.7 | 157.7 |
| 85° | 28.4 | 37.2 | 106.4 | 225.2 | 588.6 | 741.1 | 732.2 | 432.6 | 606.3 | 358.1 | 54.9 |
| 87.5° | 0.0 | 0.0 | 35.5 | 51.5 | 60.3 | 42.5 | 47.9 | 37.2 | 168.4 | 99.3 | 19.5 |
| 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° | 2845.5 | 2845.5 | 2845.5 | 2845.5 | 2845.5 | 2845.5 | 2845.5 | 2845.5 | 2845.5 | 2845.5 | 2845.5 |
| 2.5° | 2859.6 | 2831.3 | 2781.6 | 2735.5 | 2694.7 | 2654.0 | 2629.1 | 2593.7 | 2590.2 | 2590.2 | 2599.0 |
| 5° | 2879.1 | 2833.0 | 2744.4 | 2650.4 | 2542.3 | 2439.5 | 2336.6 | 2237.4 | 2205.5 | 2182.4 | 2193.0 |
| 7.5° | 2935.9 | 2863.1 | 2723.1 | 2544.0 | 2338.4 | 2113.2 | 1955.5 | 1785.2 | 1719.6 | 1684.2 | 1689.5 |
| 10° | 3017.4 | 2918.2 | 2705.4 | 2391.6 | 2058.3 | 1751.6 | 1526.4 | 1342.0 | 1271.1 | 1241.0 | 1241.0 |
| 12.5° | 3107.8 | 2985.5 | 2673.5 | 2201.9 | 1751.6 | 1384.6 | 1164.8 | 1079.6 | 1069.1 | 1069.1 | 1069.1 |
| 15° | 3215.9 | 3067.1 | 2618.6 | 1978.6 | 1430.7 | 1095.6 | 1017.6 | 1021.2 | 1031.8 | 1038.9 | 1038.9 |
| 17.5° | 3327.7 | 3153.9 | 2531.6 | 1728.6 | 1147.1 | 985.7 | 987.5 | 992.8 | 1001.6 | 1008.8 | 1008.8 |
| 20° | 3448.2 | 3240.8 | 2416.4 | 1462.6 | 983.9 | 953.8 | 959.1 | 964.4 | 971.5 | 975.1 | 976.8 |
| 22.5° | 3577.7 | 3322.3 | 2279.9 | 1202.0 | 929.0 | 927.2 | 929.0 | 934.3 | 943.2 | 943.2 | 946.7 |
| 25° | 3715.9 | 3412.7 | 2123.9 | 1012.3 | 900.7 | 900.7 | 904.2 | 907.7 | 914.8 | 914.8 | 916.6 |
| 27.5° | 3857.8 | 3496.1 | 1959.0 | 913.1 | 875.8 | 874.0 | 874.0 | 879.3 | 882.9 | 884.7 | 886.4 |
| 30° | 4013.8 | 3593.6 | 1794.2 | 891.7 | 856.3 | 847.5 | 842.1 | 845.6 | 849.2 | 851.0 | 854.5 |
| 32.5° | 4173.3 | 3687.5 | 1647.0 | 900.7 | 836.8 | 820.8 | 803.1 | 799.6 | 799.6 | 806.7 | 812.0 |
| 35° | 4350.6 | 3790.3 | 1533.5 | 930.8 | 826.2 | 781.9 | 753.5 | 737.5 | 739.3 | 749.9 | 755.2 |
| 37.5° | 4563.4 | 3914.5 | 1450.2 | 957.4 | 819.1 | 737.5 | 691.5 | 671.9 | 659.5 | 671.9 | 668.4 |
| 40° | 4841.7 | 4097.1 | 1389.9 | 978.7 | 810.2 | 686.1 | 624.0 | 592.1 | 569.1 | 576.2 | 572.7 |
| 42.5° | 5251.3 | 4384.3 | 1366.8 | 980.4 | 790.7 | 625.9 | 554.9 | 512.4 | 478.7 | 480.4 | 473.3 |
| 45° | 5825.7 | 4838.2 | 1485.6 | 957.4 | 748.1 | 560.3 | 482.3 | 425.5 | 404.3 | 398.9 | 391.8 |
| 47.5° | 6612.8 | 5499.4 | 1760.4 | 909.5 | 686.1 | 496.4 | 411.3 | 363.5 | 347.5 | 338.7 | 333.3 |
| 50° | 7667.6 | 6348.6 | 2065.4 | 856.3 | 624.0 | 436.1 | 352.8 | 322.7 | 312.0 | 303.2 | 301.3 |
| 52.5° | 8891.0 | 7210.3 | 2315.4 | 803.1 | 562.0 | 382.9 | 315.6 | 297.9 | 288.9 | 281.9 | 280.1 |
| 55° | 10013.1 | 7804.1 | 2301.2 | 746.4 | 501.7 | 340.4 | 288.9 | 278.4 | 267.7 | 260.7 | 257.1 |
| 57.5° | 10711.7 | 7887.5 | 1897.0 | 684.3 | 432.6 | 306.7 | 264.1 | 257.1 | 244.7 | 235.7 | 234.0 |
| 60° | 11032.6 | 7412.4 | 1329.6 | 602.8 | 363.5 | 274.8 | 237.6 | 234.0 | 218.0 | 205.6 | 202.1 |
| 62.5° | 11091.0 | 6529.5 | 886.4 | 501.7 | 303.2 | 244.7 | 210.9 | 205.6 | 184.4 | 163.1 | 152.4 |
| 65° | 10853.5 | 5267.2 | 613.5 | 391.8 | 258.8 | 212.8 | 180.8 | 170.1 | 147.2 | 125.9 | 118.8 |
| 67.5° | 10101.8 | 3698.2 | 427.2 | 281.9 | 219.9 | 168.4 | 143.6 | 140.0 | 122.3 | 104.6 | 99.3 |
| 70° | 8724.3 | 2107.9 | 285.5 | 210.9 | 173.7 | 115.2 | 113.5 | 117.1 | 99.3 | 85.1 | 78.0 |
| 72.5° | 6689.0 | 964.4 | 177.3 | 154.3 | 118.8 | 78.0 | 90.4 | 92.1 | 76.3 | 63.9 | 56.7 |
| 75° | 3937.5 | 413.1 | 111.7 | 99.3 | 60.3 | 51.5 | 65.6 | 67.3 | 51.5 | 40.8 | 35.5 |
| 77.5° | 1340.3 | 156.0 | 70.9 | 58.5 | 30.1 | 28.4 | 42.5 | 42.5 | 28.4 | 16.0 | 12.4 |
| 80° | 304.9 | 58.5 | 35.5 | 23.1 | 14.1 | 12.4 | 14.1 | 12.4 | 7.1 | 1.7 | 0.0 |
| 82.5° | 86.9 | 23.1 | 14.1 | 8.8 | 5.3 | 5.3 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 24.8 | 10.7 | 3.6 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 10.7 | 1.7 | 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)