

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: P883270

Luminaire Tested: **NVN-SB3C-740-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3C-740-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18337 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

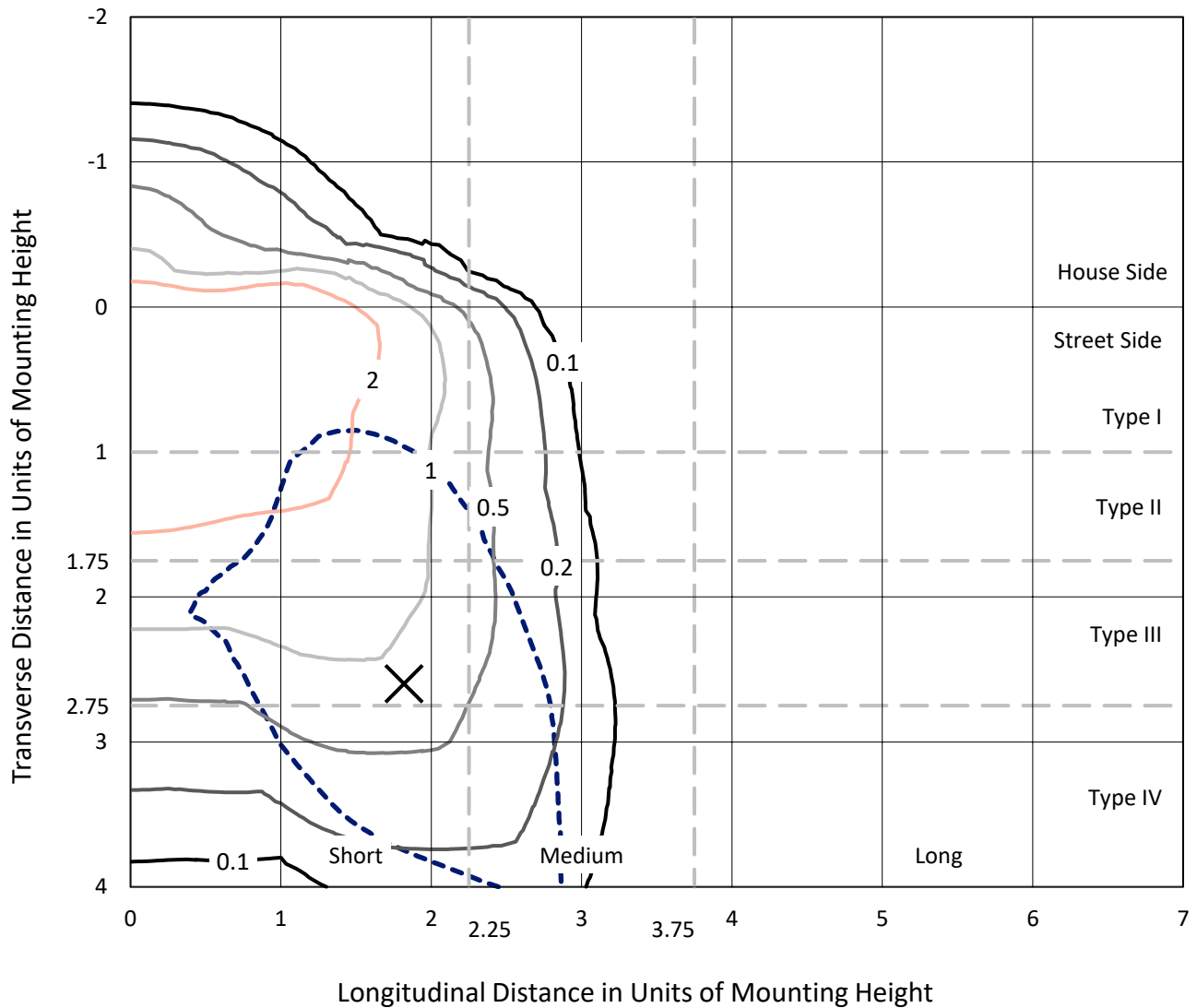
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

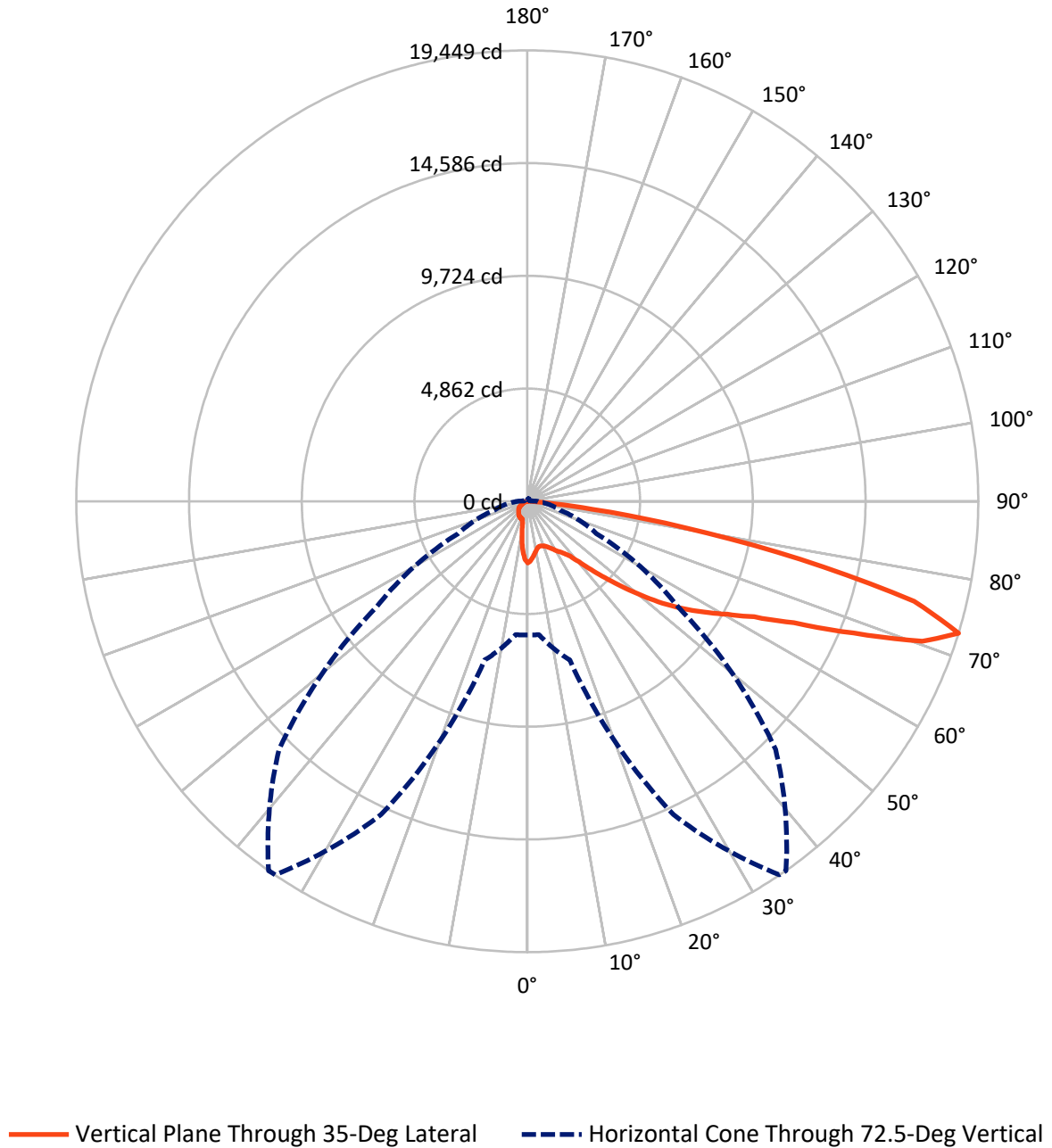
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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 | 2063.7 | 0.0 | 2063.7 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 16273.3 | 0.0 | 16273.3 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 18337.0 | 0.0 | 18337.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 218.4 | 1.2 |
| 10°-20° | 510.9 | 2.8 |
| 20°-30° | 829.9 | 4.5 |
| 30°-40° | 1384.7 | 7.6 |
| 40°-50° | 2619.9 | 14.3 |
| 50°-60° | 4163.1 | 22.7 |
| 60°-70° | 5150.0 | 28.1 |
| 70°-80° | 3201.3 | 17.5 |
| 80°-90° | 258.7 | 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° | 18337.0 | 100.0 |
| 0°-180° | 18337.0 | 100.0 |



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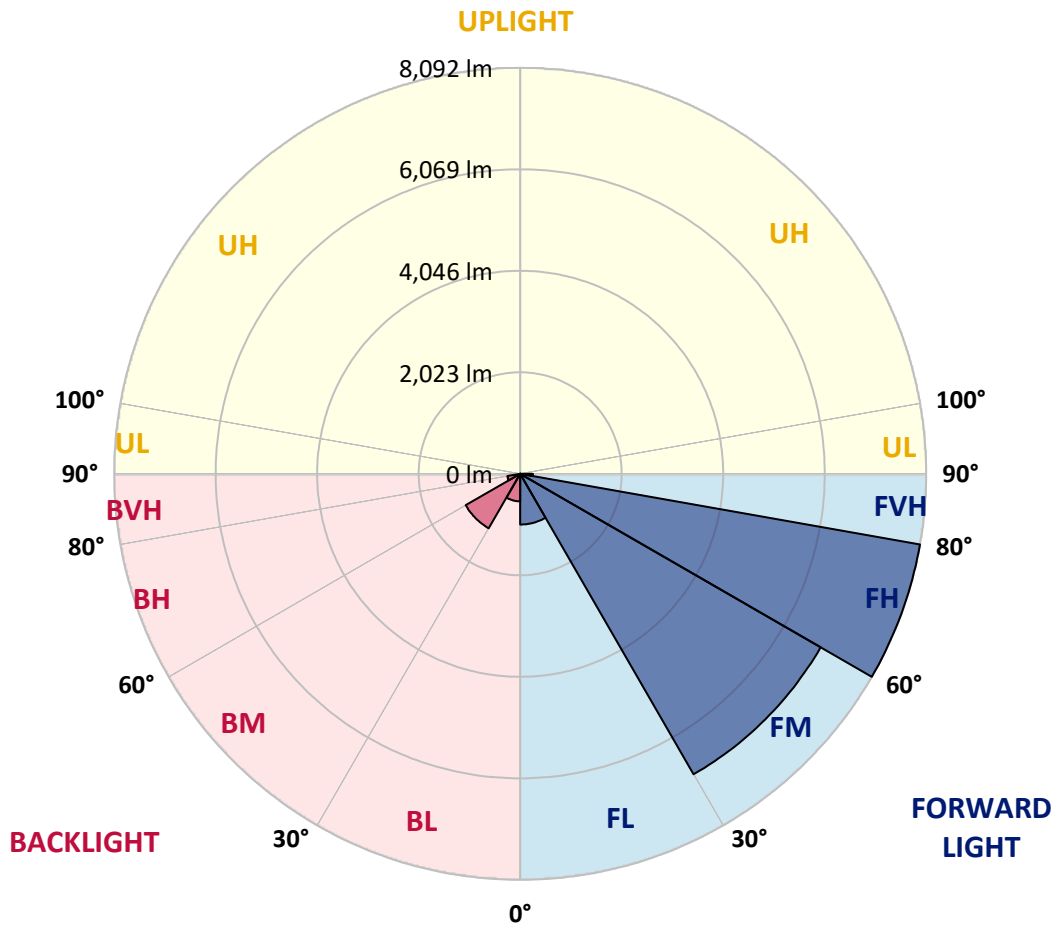
CATALOG NUMBER: NVN-SB3C-740-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1010.8 | 5.5 | | | |
| FM (30°-60°) | 6914.9 | 37.7 | | | |
| FH (60°-80°) | 8092.3 | 44.1 | | | G4/12000 |
| FVH (80°-90°) | 255.2 | 1.4 | | | G3/500 |
| BL (0°-30°) | 548.4 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 1252.9 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 259.0 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.5 | 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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 2657.6 | 2657.6 | 2657.6 | 2657.6 | 2657.6 | 2657.6 | 2657.6 | 2657.6 | 2657.6 | 2657.6 | 2657.6 |
| 2.5° | 2539.4 | 2560.9 | 2564.9 | 2571.7 | 2571.7 | 2579.7 | 2593.2 | 2612.0 | 2642.9 | 2659.0 | 2669.7 |
| 5° | 2340.6 | 2356.7 | 2376.8 | 2393.0 | 2423.9 | 2427.9 | 2480.3 | 2531.3 | 2602.6 | 2656.3 | 2693.9 |
| 7.5° | 2140.4 | 2159.2 | 2186.0 | 2225.0 | 2265.3 | 2277.4 | 2356.7 | 2442.7 | 2555.5 | 2656.3 | 2719.5 |
| 10° | 1999.3 | 2000.6 | 2024.8 | 2063.8 | 2128.3 | 2143.0 | 2239.8 | 2362.1 | 2503.1 | 2640.2 | 2743.6 |
| 12.5° | 1920.0 | 1929.4 | 1940.2 | 1969.7 | 2031.5 | 2040.9 | 2144.4 | 2288.2 | 2450.7 | 2630.8 | 2771.9 |
| 15° | 1920.0 | 1926.7 | 1933.4 | 1948.2 | 1997.9 | 2006.0 | 2097.4 | 2241.1 | 2423.9 | 2634.8 | 2817.5 |
| 17.5° | 1940.2 | 1950.9 | 1945.5 | 1963.0 | 2015.4 | 2020.8 | 2101.4 | 2227.7 | 2422.5 | 2660.3 | 2887.4 |
| 20° | 1988.5 | 1996.6 | 1985.8 | 1996.6 | 2049.0 | 2059.7 | 2143.0 | 2253.2 | 2445.4 | 2704.7 | 2974.7 |
| 22.5° | 2065.1 | 2069.1 | 2043.6 | 2051.7 | 2105.4 | 2118.9 | 2215.6 | 2325.8 | 2500.4 | 2775.9 | 3091.6 |
| 25° | 2161.9 | 2169.9 | 2131.0 | 2140.4 | 2191.4 | 2207.5 | 2319.1 | 2434.6 | 2587.8 | 2874.0 | 3240.8 |
| 27.5° | 2273.4 | 2277.4 | 2243.8 | 2242.5 | 2308.3 | 2331.2 | 2444.0 | 2569.0 | 2704.7 | 2997.6 | 3428.9 |
| 30° | 2401.0 | 2413.1 | 2380.9 | 2375.5 | 2458.8 | 2477.6 | 2589.1 | 2734.2 | 2876.7 | 3183.0 | 3696.3 |
| 32.5° | 2501.8 | 2511.2 | 2492.4 | 2505.8 | 2590.5 | 2605.2 | 2765.1 | 2968.0 | 3146.7 | 3446.3 | 4060.4 |
| 35° | 2646.9 | 2652.3 | 2609.3 | 2633.5 | 2730.2 | 2767.8 | 3005.6 | 3295.9 | 3486.6 | 3776.9 | 4536.0 |
| 37.5° | 3172.2 | 3172.2 | 2989.5 | 2869.9 | 2962.6 | 2996.2 | 3334.8 | 3708.3 | 3905.9 | 4220.3 | 5135.2 |
| 40° | 3899.1 | 3887.0 | 3619.7 | 3375.1 | 3363.0 | 3428.9 | 3803.7 | 4228.3 | 4447.3 | 4752.3 | 5809.7 |
| 42.5° | 4674.4 | 4655.6 | 4291.5 | 4049.6 | 4009.3 | 4032.2 | 4345.2 | 4869.2 | 5092.3 | 5401.3 | 6535.3 |
| 45° | 5362.3 | 5356.9 | 5023.7 | 4698.6 | 4626.0 | 4698.6 | 5021.0 | 5618.9 | 5778.8 | 6104.0 | 7259.5 |
| 47.5° | 5938.7 | 5938.7 | 5695.5 | 5483.2 | 5445.6 | 5488.6 | 5936.0 | 6450.6 | 6435.9 | 6852.4 | 7964.9 |
| 50° | 6602.5 | 6597.1 | 6366.0 | 6274.6 | 6313.6 | 6374.1 | 6989.4 | 7326.7 | 7115.7 | 7587.3 | 8595.0 |
| 52.5° | 7067.4 | 7099.6 | 7020.3 | 7005.5 | 7204.4 | 7309.2 | 8058.9 | 8183.9 | 7724.4 | 8284.7 | 9066.6 |
| 55° | 7435.5 | 7473.1 | 7564.5 | 7667.9 | 8050.9 | 8187.9 | 9094.8 | 8996.8 | 8233.6 | 8889.3 | 9338.0 |
| 57.5° | 7956.8 | 7903.1 | 8044.1 | 8248.4 | 8867.8 | 9033.0 | 10098.5 | 9764.0 | 8643.4 | 9379.7 | 9367.6 |
| 60° | 8589.7 | 8597.7 | 8621.9 | 8879.9 | 9683.3 | 9895.6 | 11087.4 | 10489.5 | 8906.7 | 9680.7 | 9039.8 |
| 62.5° | 9350.1 | 9362.2 | 9411.9 | 9808.3 | 10778.4 | 10978.6 | 12140.8 | 11083.4 | 9027.7 | 9596.0 | 8193.3 |
| 65° | 9297.7 | 9348.8 | 9903.7 | 11259.4 | 12443.1 | 12640.6 | 13370.2 | 11499.9 | 8844.9 | 8822.1 | 6671.0 |
| 67.5° | 8470.1 | 8553.4 | 9481.8 | 12992.6 | 14953.0 | 15173.3 | 14856.2 | 11581.9 | 8056.2 | 6860.4 | 4351.9 |
| 70° | 7384.4 | 7414.0 | 8530.5 | 14551.2 | 17859.2 | 18082.2 | 16186.4 | 10680.3 | 6113.4 | 3826.6 | 1949.6 |
| 72.5° | 5766.7 | 5773.5 | 7083.5 | 14912.6 | 19436.6 | 19448.6 | 15142.4 | 7928.6 | 3287.8 | 1469.9 | 677.2 |
| 75° | 4119.5 | 4079.2 | 4744.3 | 12093.8 | 17100.0 | 17237.1 | 11352.1 | 3719.1 | 1256.3 | 694.6 | 337.2 |
| 77.5° | 2208.9 | 2253.2 | 2684.5 | 7172.2 | 11813.0 | 12046.7 | 6194.0 | 1072.2 | 639.6 | 472.9 | 223.0 |
| 80° | 682.6 | 720.2 | 1100.4 | 3283.8 | 6691.1 | 6832.2 | 2296.2 | 477.0 | 446.1 | 337.2 | 146.5 |
| 82.5° | 215.0 | 223.0 | 513.3 | 1379.9 | 2777.2 | 2841.7 | 665.1 | 270.1 | 305.0 | 223.0 | 86.0 |
| 85° | 61.8 | 63.1 | 228.4 | 514.6 | 686.6 | 700.0 | 186.8 | 104.8 | 174.7 | 138.4 | 44.3 |
| 87.5° | 6.7 | 21.5 | 86.0 | 86.0 | 60.5 | 59.1 | 20.2 | 22.8 | 49.7 | 17.5 | 8.1 |
| 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° | 2657.6 | 2657.6 | 2657.6 | 2657.6 | 2657.6 | 2657.6 | 2657.6 | 2657.6 | 2657.6 | 2657.6 | 2657.6 |
| 2.5° | 2663.0 | 2664.4 | 2646.9 | 2617.3 | 2585.1 | 2558.2 | 2524.6 | 2497.8 | 2478.9 | 2473.6 | 2483.0 |
| 5° | 2681.8 | 2672.4 | 2622.7 | 2532.7 | 2425.2 | 2332.5 | 2229.0 | 2147.1 | 2093.3 | 2070.5 | 2078.6 |
| 7.5° | 2710.0 | 2683.2 | 2574.3 | 2397.0 | 2191.4 | 2008.7 | 1823.3 | 1679.5 | 1588.1 | 1542.5 | 1549.2 |
| 10° | 2734.2 | 2680.5 | 2493.7 | 2200.8 | 1886.4 | 1609.6 | 1359.7 | 1186.4 | 1089.7 | 1044.0 | 1045.3 |
| 12.5° | 2757.1 | 2679.1 | 2388.9 | 1968.4 | 1542.5 | 1203.9 | 971.4 | 885.4 | 858.6 | 849.2 | 846.5 |
| 15° | 2800.1 | 2683.2 | 2257.3 | 1702.3 | 1199.8 | 909.6 | 825.0 | 823.6 | 829.0 | 826.3 | 825.0 |
| 17.5° | 2859.2 | 2687.2 | 2108.1 | 1420.2 | 925.7 | 802.1 | 798.1 | 810.2 | 818.3 | 814.2 | 812.9 |
| 20° | 2935.8 | 2703.3 | 1949.6 | 1140.7 | 795.4 | 775.3 | 784.7 | 795.4 | 802.1 | 795.4 | 794.1 |
| 22.5° | 3043.3 | 2731.5 | 1776.2 | 916.3 | 753.8 | 759.1 | 767.2 | 779.3 | 786.0 | 776.6 | 775.3 |
| 25° | 3174.9 | 2775.9 | 1605.6 | 796.8 | 733.6 | 740.3 | 752.4 | 765.9 | 773.9 | 764.5 | 763.2 |
| 27.5° | 3345.6 | 2847.1 | 1448.4 | 769.9 | 713.5 | 717.5 | 735.0 | 755.1 | 765.9 | 753.8 | 753.8 |
| 30° | 3592.8 | 2964.0 | 1312.7 | 782.0 | 701.4 | 692.0 | 716.1 | 744.4 | 756.4 | 745.7 | 744.4 |
| 32.5° | 3920.6 | 3129.3 | 1229.4 | 800.8 | 696.0 | 662.4 | 685.2 | 721.5 | 741.7 | 735.0 | 735.0 |
| 35° | 4350.6 | 3380.5 | 1197.1 | 822.3 | 692.0 | 631.5 | 647.6 | 686.6 | 721.5 | 728.2 | 728.2 |
| 37.5° | 4871.9 | 3729.8 | 1206.6 | 831.7 | 679.9 | 606.0 | 614.0 | 647.6 | 693.3 | 714.8 | 720.2 |
| 40° | 5464.4 | 4137.0 | 1260.3 | 822.3 | 666.4 | 584.5 | 585.8 | 611.3 | 651.6 | 683.9 | 694.6 |
| 42.5° | 6075.8 | 4612.6 | 1359.7 | 787.4 | 654.3 | 565.7 | 561.6 | 579.1 | 606.0 | 628.8 | 638.2 |
| 45° | 6657.6 | 5101.7 | 1457.8 | 739.0 | 639.6 | 546.8 | 537.4 | 544.2 | 549.5 | 558.9 | 564.3 |
| 47.5° | 7165.4 | 5445.6 | 1429.6 | 694.6 | 619.4 | 525.3 | 509.2 | 506.5 | 490.4 | 489.1 | 487.7 |
| 50° | 7516.1 | 5520.9 | 1269.7 | 650.3 | 589.8 | 501.2 | 475.6 | 459.5 | 431.3 | 417.9 | 419.2 |
| 52.5° | 7627.6 | 5223.9 | 1037.3 | 606.0 | 541.5 | 468.9 | 432.6 | 407.1 | 372.2 | 360.1 | 358.7 |
| 55° | 7479.8 | 4642.1 | 829.0 | 552.2 | 474.3 | 425.9 | 385.6 | 352.0 | 323.8 | 309.0 | 309.0 |
| 57.5° | 7118.4 | 3901.8 | 655.7 | 489.1 | 403.1 | 377.6 | 337.2 | 303.7 | 279.5 | 264.7 | 262.0 |
| 60° | 6519.2 | 3098.3 | 518.6 | 413.8 | 344.0 | 325.2 | 283.5 | 262.0 | 240.5 | 223.0 | 219.0 |
| 62.5° | 5609.5 | 2211.6 | 407.1 | 327.8 | 287.5 | 266.0 | 241.8 | 225.7 | 200.2 | 176.0 | 172.0 |
| 65° | 4377.5 | 1353.0 | 314.4 | 240.5 | 231.1 | 220.4 | 205.6 | 190.8 | 159.9 | 135.7 | 131.7 |
| 67.5° | 2761.1 | 640.9 | 224.4 | 181.4 | 182.7 | 177.4 | 170.6 | 158.5 | 135.7 | 114.2 | 111.5 |
| 70° | 1216.0 | 310.4 | 147.8 | 138.4 | 135.7 | 135.7 | 141.1 | 137.0 | 115.5 | 95.4 | 91.4 |
| 72.5° | 413.8 | 166.6 | 110.2 | 104.8 | 98.1 | 96.7 | 118.2 | 114.2 | 92.7 | 73.9 | 69.9 |
| 75° | 216.3 | 111.5 | 80.6 | 75.2 | 59.1 | 71.2 | 94.1 | 88.7 | 65.8 | 48.4 | 44.3 |
| 77.5° | 141.1 | 79.3 | 55.1 | 48.4 | 33.6 | 47.0 | 69.9 | 61.8 | 39.0 | 24.2 | 21.5 |
| 80° | 88.7 | 52.4 | 32.2 | 22.8 | 16.1 | 25.5 | 37.6 | 26.9 | 14.8 | 5.4 | 4.0 |
| 82.5° | 47.0 | 26.9 | 12.1 | 8.1 | 6.7 | 8.1 | 9.4 | 6.7 | 2.7 | 0.0 | 0.0 |
| 85° | 18.8 | 9.4 | 4.0 | 2.7 | 1.3 | 0.0 | 2.7 | 1.3 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.7 | 1.3 | 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)