

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: P884468

Luminaire Tested: **NVN-SB5B-750-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5B-750-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24160 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

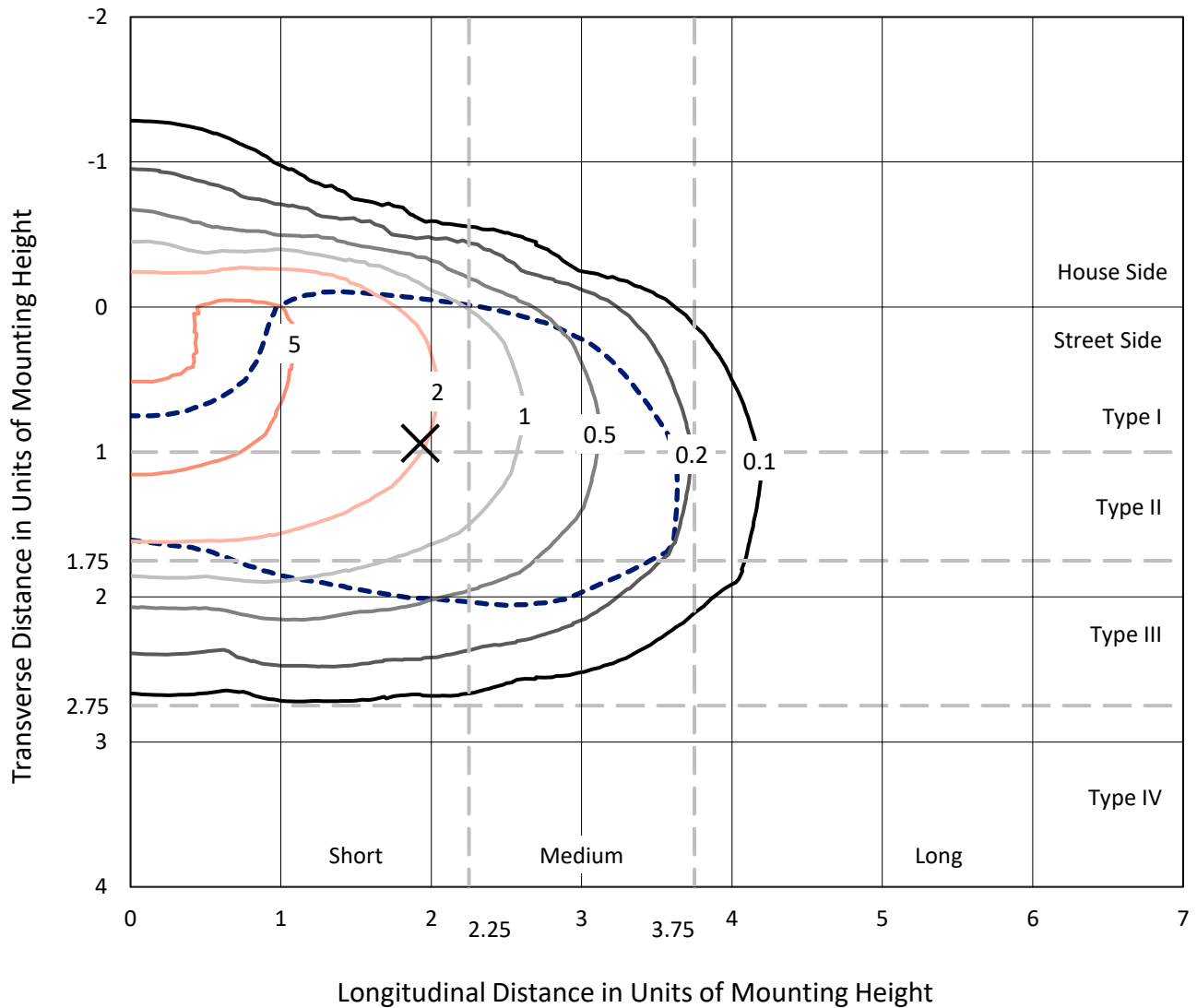
Input Watts (W): 182.7
Input Voltage (V): 120.0
Input Current (Ain): 1.547
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 11.125
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

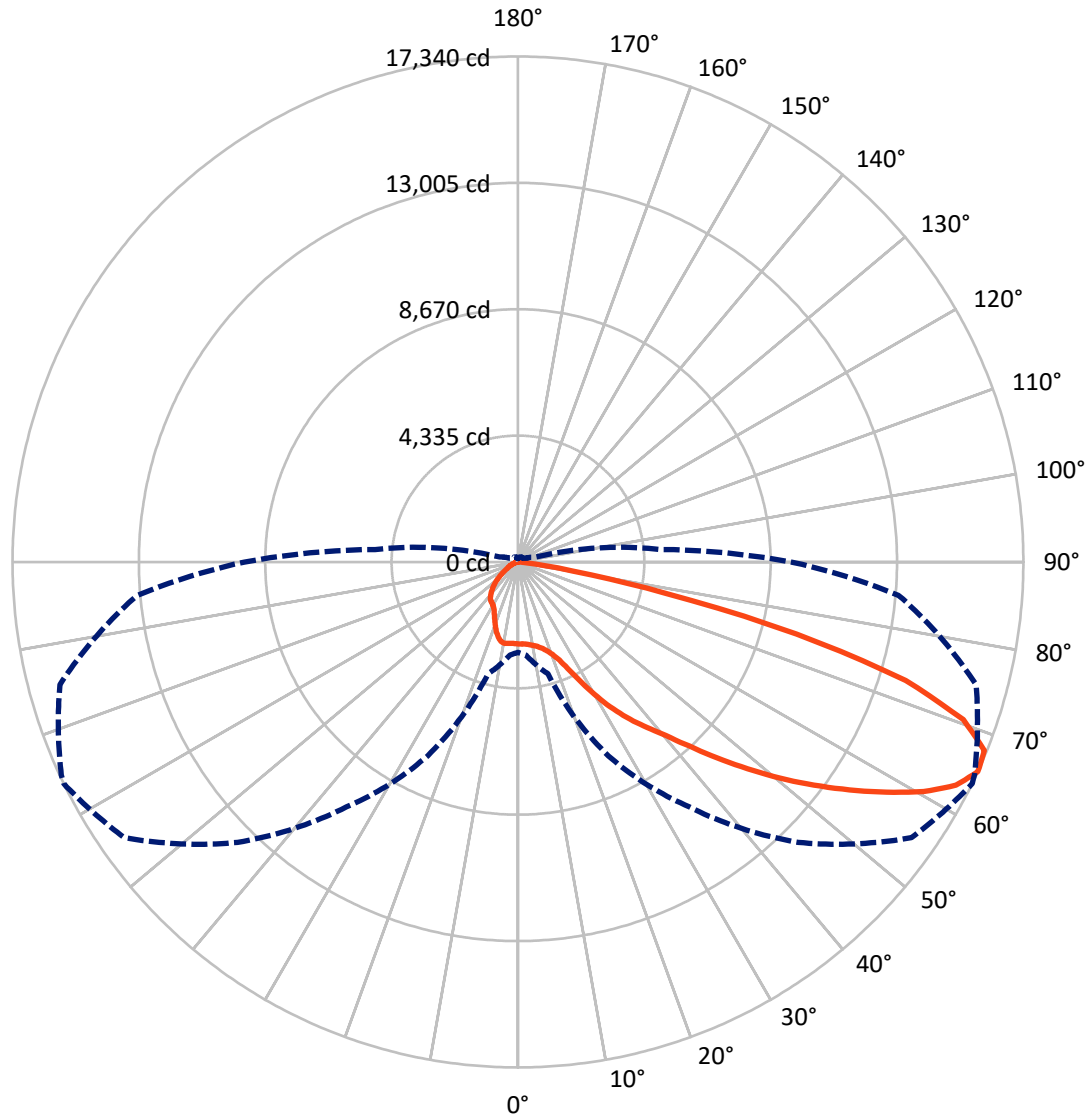
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3230.9 | 0.0 | 3230.9 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 20929.1 | 0.0 | 20929.1 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 24160.0 | 0.0 | 24160.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 259.3 | 1.1 |
| 10°-20° | 703.2 | 2.9 |
| 20°-30° | 1332.5 | 5.5 |
| 30°-40° | 2696.3 | 11.2 |
| 40°-50° | 4593.1 | 19.0 |
| 50°-60° | 6246.3 | 25.9 |
| 60°-70° | 5865.6 | 24.3 |
| 70°-80° | 2350.0 | 9.7 |
| 80°-90° | 113.9 | 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° | 24160.0 | 100.0 |
| 0°-180° | 24160.0 | 100.0 |

Coefficient of Utilization



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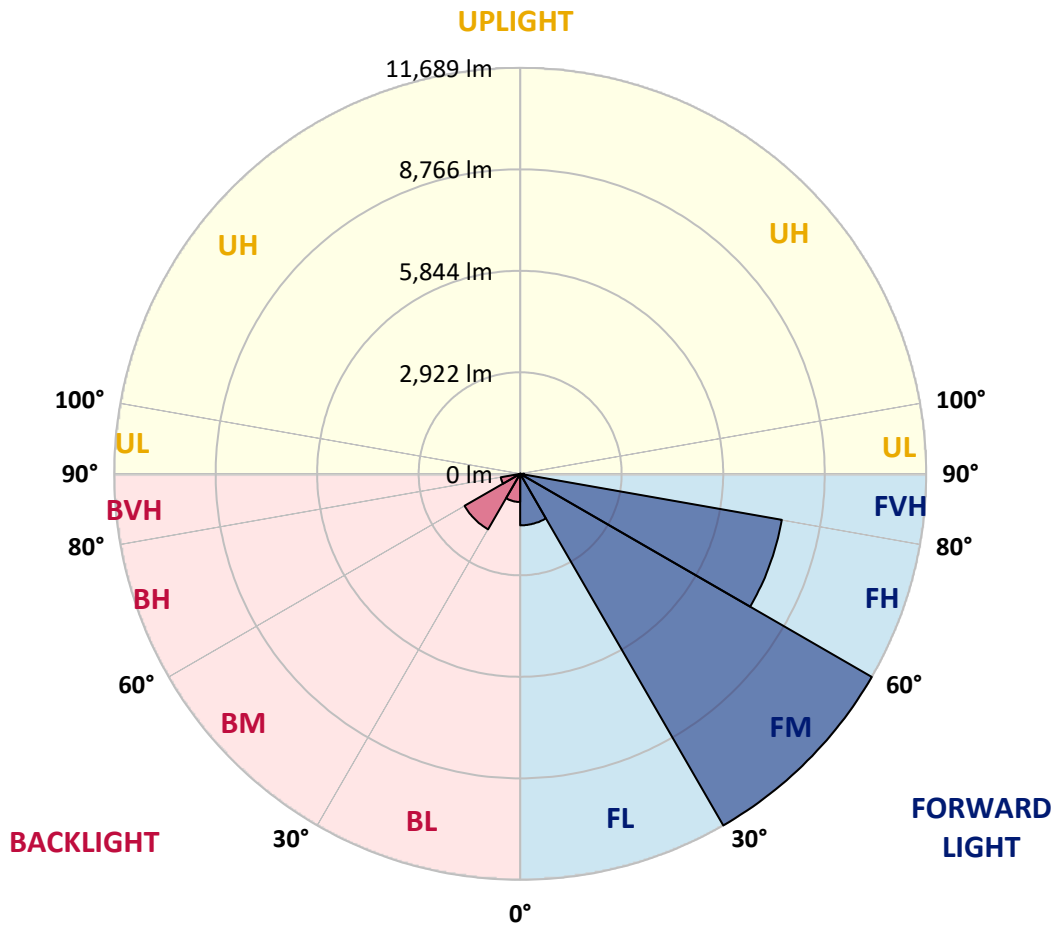
CATALOG NUMBER: NVN-SB5B-750-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1483.7 | 6.1 | | | |
| FM (30°-60°) | 11688.6 | 48.4 | | | |
| FH (60°-80°) | 7648.5 | 31.7 | | | G4/12000 |
| FVH (80°-90°) | 108.3 | 0.4 | | | G2/225 |
| BL (0°-30°) | 811.2 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 1847.1 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 567.1 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 5.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2810.1 | 2810.1 | 2810.1 | 2810.1 | 2810.1 | 2810.1 | 2810.1 | 2810.1 | 2810.1 | 2810.1 | 2810.1 |
| 2.5° | 2800.3 | 2819.8 | 2814.9 | 2810.1 | 2808.4 | 2811.7 | 2813.3 | 2811.7 | 2811.7 | 2811.7 | 2813.3 |
| 5° | 2746.9 | 2763.1 | 2763.1 | 2774.4 | 2790.6 | 2810.1 | 2824.6 | 2827.9 | 2831.1 | 2836.0 | 2834.4 |
| 7.5° | 2644.9 | 2657.8 | 2667.5 | 2704.8 | 2745.3 | 2797.1 | 2840.8 | 2863.5 | 2866.7 | 2884.6 | 2891.0 |
| 10° | 2575.2 | 2591.4 | 2607.6 | 2646.5 | 2704.8 | 2782.5 | 2857.0 | 2912.1 | 2920.2 | 2962.3 | 2981.7 |
| 12.5° | 2572.0 | 2588.2 | 2609.2 | 2651.3 | 2719.4 | 2802.0 | 2892.7 | 2972.0 | 2986.6 | 3048.1 | 3088.6 |
| 15° | 2606.0 | 2625.4 | 2644.9 | 2696.7 | 2769.6 | 2870.0 | 2967.2 | 3066.0 | 3080.5 | 3168.0 | 3211.7 |
| 17.5° | 2675.6 | 2701.5 | 2716.1 | 2767.9 | 2845.7 | 2957.4 | 3085.4 | 3198.8 | 3211.7 | 3313.8 | 3368.8 |
| 20° | 2813.3 | 2844.1 | 2848.9 | 2891.0 | 2967.2 | 3087.0 | 3239.3 | 3380.2 | 3396.4 | 3513.0 | 3574.5 |
| 22.5° | 3098.4 | 3142.1 | 3103.2 | 3124.3 | 3192.3 | 3312.1 | 3477.3 | 3655.5 | 3678.2 | 3811.0 | 3866.1 |
| 25° | 3600.4 | 3662.0 | 3561.6 | 3525.9 | 3555.1 | 3679.8 | 3887.1 | 4112.2 | 4138.2 | 4245.1 | 4272.6 |
| 27.5° | 4586.8 | 4507.4 | 4355.2 | 4206.2 | 4118.7 | 4190.0 | 4423.2 | 4701.8 | 4734.2 | 4837.8 | 4805.4 |
| 30° | 5670.3 | 5600.7 | 5395.0 | 5064.6 | 4857.3 | 4845.9 | 5061.3 | 5372.3 | 5409.6 | 5508.4 | 5409.6 |
| 32.5° | 6755.5 | 6689.1 | 6465.6 | 6059.0 | 5699.5 | 5521.3 | 5670.3 | 6015.3 | 6034.7 | 6097.9 | 5952.1 |
| 35° | 7822.8 | 7754.8 | 7531.3 | 7115.0 | 6672.9 | 6268.0 | 6238.8 | 6627.5 | 6634.0 | 6700.4 | 6483.4 |
| 37.5° | 8896.6 | 8839.9 | 8601.9 | 8193.7 | 7758.0 | 7199.3 | 6928.8 | 7207.4 | 7215.5 | 7280.2 | 7055.1 |
| 40° | 9662.7 | 9687.0 | 9523.4 | 9207.6 | 8833.5 | 8222.9 | 7703.0 | 7824.4 | 7775.8 | 7884.4 | 7749.9 |
| 42.5° | 10320.3 | 10368.9 | 10226.3 | 10067.6 | 9850.6 | 9312.9 | 8661.8 | 8640.7 | 8563.0 | 8621.3 | 8482.0 |
| 45° | 10888.8 | 10929.3 | 10801.3 | 10764.1 | 10759.2 | 10381.8 | 9709.7 | 9583.4 | 9474.8 | 9463.5 | 9296.7 |
| 47.5° | 11097.7 | 11175.5 | 11230.5 | 11355.2 | 11598.2 | 11439.5 | 10793.2 | 10597.2 | 10475.8 | 10386.7 | 10122.7 |
| 50° | 11177.1 | 11259.7 | 11447.5 | 11810.3 | 12385.3 | 12453.3 | 11871.9 | 11651.6 | 11502.6 | 11340.7 | 10951.9 |
| 52.5° | 11070.2 | 11217.6 | 11470.2 | 12080.8 | 12914.9 | 13266.4 | 12906.8 | 12714.1 | 12544.0 | 12280.0 | 11703.4 |
| 55° | 10440.1 | 10587.5 | 11104.2 | 12077.6 | 13178.9 | 13836.5 | 13885.1 | 13799.3 | 13608.1 | 13191.9 | 12310.8 |
| 57.5° | 9112.0 | 9330.7 | 10148.6 | 11666.2 | 13174.1 | 14327.3 | 14843.9 | 14905.5 | 14691.7 | 14095.6 | 12788.6 |
| 60° | 7272.1 | 7568.5 | 8566.2 | 10754.3 | 12767.5 | 14592.9 | 15684.5 | 15992.2 | 15765.5 | 14986.4 | 13175.7 |
| 62.5° | 5074.3 | 5417.7 | 6361.9 | 9325.8 | 11837.9 | 14401.8 | 16298.3 | 16866.8 | 16695.2 | 15783.3 | 13324.7 |
| 65° | 3095.1 | 3205.2 | 3966.5 | 7338.5 | 10257.1 | 13601.7 | 16487.8 | 17339.8 | 17283.1 | 16270.8 | 13104.4 |
| 67.5° | 2061.8 | 2154.1 | 2372.8 | 5032.2 | 7962.1 | 12003.1 | 16034.3 | 17257.2 | 17273.4 | 16191.4 | 12297.9 |
| 70° | 1242.3 | 1321.6 | 1464.1 | 2926.7 | 5160.1 | 9500.8 | 14630.1 | 16204.4 | 16298.3 | 15130.6 | 10768.9 |
| 72.5° | 511.8 | 565.3 | 694.8 | 1326.5 | 2672.4 | 6029.9 | 11650.0 | 13912.6 | 14131.3 | 12722.2 | 8265.0 |
| 75° | 289.9 | 317.4 | 408.1 | 665.7 | 1159.7 | 2810.1 | 7056.7 | 9876.5 | 10198.8 | 8768.7 | 4972.3 |
| 77.5° | 192.7 | 205.7 | 264.0 | 430.8 | 652.7 | 958.8 | 3015.8 | 5145.6 | 5761.0 | 4789.2 | 2152.5 |
| 80° | 129.6 | 140.9 | 181.4 | 288.3 | 424.3 | 411.4 | 960.4 | 1906.3 | 2345.2 | 1645.5 | 524.8 |
| 82.5° | 87.5 | 89.1 | 129.6 | 189.5 | 268.9 | 199.2 | 283.4 | 592.8 | 745.0 | 476.2 | 199.2 |
| 85° | 50.2 | 48.6 | 95.6 | 110.1 | 119.9 | 82.6 | 85.8 | 178.2 | 233.2 | 200.8 | 113.4 |
| 87.5° | 6.5 | 9.7 | 37.3 | 29.2 | 16.2 | 17.8 | 17.8 | 30.8 | 45.3 | 48.6 | 24.3 |
| 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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CATALOG NUMBER: NVN-SB5B-750-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2810.1 | 2810.1 | 2810.1 | 2810.1 | 2810.1 | 2810.1 | 2810.1 | 2810.1 | 2810.1 | 2810.1 | 2810.1 |
| 2.5° | 2813.3 | 2811.7 | 2806.8 | 2802.0 | 2790.6 | 2784.1 | 2787.4 | 2784.1 | 2782.5 | 2784.1 | 2790.6 |
| 5° | 2834.4 | 2829.5 | 2816.5 | 2800.3 | 2777.7 | 2750.1 | 2732.3 | 2706.4 | 2682.1 | 2667.5 | 2670.8 |
| 7.5° | 2891.0 | 2886.2 | 2868.4 | 2823.0 | 2750.1 | 2635.1 | 2529.9 | 2437.5 | 2367.9 | 2327.4 | 2329.0 |
| 10° | 2981.7 | 2973.6 | 2946.1 | 2845.7 | 2654.6 | 2403.5 | 2194.6 | 2021.3 | 1907.9 | 1854.5 | 1849.6 |
| 12.5° | 3088.6 | 3078.9 | 3030.3 | 2824.6 | 2473.2 | 2081.2 | 1792.9 | 1600.2 | 1494.9 | 1447.9 | 1443.1 |
| 15° | 3215.0 | 3202.0 | 3106.5 | 2724.2 | 2209.2 | 1724.9 | 1460.9 | 1316.8 | 1248.7 | 1206.6 | 1208.2 |
| 17.5° | 3372.1 | 3349.4 | 3163.1 | 2573.6 | 1922.5 | 1452.8 | 1256.8 | 1148.3 | 1088.4 | 1047.9 | 1044.7 |
| 20° | 3576.1 | 3538.9 | 3208.5 | 2393.8 | 1658.5 | 1281.1 | 1119.2 | 1028.5 | 983.1 | 947.5 | 941.0 |
| 22.5° | 3861.2 | 3807.8 | 3263.6 | 2199.5 | 1472.2 | 1162.9 | 1017.1 | 950.7 | 913.5 | 873.0 | 866.5 |
| 25° | 4214.3 | 4151.1 | 3331.6 | 2019.7 | 1344.3 | 1060.9 | 942.6 | 887.6 | 843.8 | 796.9 | 792.0 |
| 27.5° | 4708.3 | 4594.9 | 3412.6 | 1872.3 | 1234.2 | 973.4 | 874.6 | 813.1 | 762.8 | 724.0 | 715.9 |
| 30° | 5258.9 | 5072.7 | 3483.8 | 1783.2 | 1133.7 | 892.4 | 785.5 | 724.0 | 677.0 | 649.5 | 644.6 |
| 32.5° | 5780.5 | 5527.8 | 3530.8 | 1744.3 | 1043.0 | 800.1 | 688.3 | 621.9 | 586.3 | 578.2 | 583.1 |
| 35° | 6272.8 | 5939.2 | 3525.9 | 1707.1 | 962.1 | 707.8 | 592.8 | 524.8 | 497.2 | 502.1 | 502.1 |
| 37.5° | 6839.7 | 6378.1 | 3491.9 | 1648.8 | 895.7 | 623.6 | 510.2 | 450.3 | 426.0 | 427.6 | 434.1 |
| 40° | 7498.9 | 6885.0 | 3470.9 | 1538.6 | 822.8 | 545.8 | 442.2 | 393.6 | 375.8 | 369.3 | 367.7 |
| 42.5° | 8201.8 | 7375.8 | 3474.1 | 1413.9 | 732.1 | 476.2 | 395.2 | 354.7 | 338.5 | 333.6 | 332.0 |
| 45° | 8908.0 | 7843.9 | 3479.0 | 1284.4 | 636.5 | 422.7 | 361.2 | 327.2 | 317.4 | 311.0 | 311.0 |
| 47.5° | 9572.0 | 8242.3 | 3388.3 | 1145.1 | 542.6 | 382.2 | 333.6 | 311.0 | 302.9 | 294.8 | 294.8 |
| 50° | 10190.7 | 8507.9 | 3169.6 | 983.1 | 468.1 | 349.8 | 312.6 | 296.4 | 288.3 | 280.2 | 280.2 |
| 52.5° | 10671.7 | 8550.0 | 2808.4 | 816.3 | 416.2 | 325.5 | 299.6 | 285.1 | 275.3 | 267.2 | 265.6 |
| 55° | 10885.5 | 8286.0 | 2295.0 | 660.8 | 375.8 | 304.5 | 286.7 | 272.1 | 260.8 | 252.7 | 251.0 |
| 57.5° | 10830.5 | 7730.5 | 1789.7 | 531.2 | 336.9 | 283.4 | 270.5 | 260.8 | 247.8 | 234.8 | 233.2 |
| 60° | 10560.0 | 6987.1 | 1349.2 | 442.2 | 301.3 | 260.8 | 252.7 | 244.6 | 226.7 | 207.3 | 204.1 |
| 62.5° | 10091.9 | 6052.6 | 962.1 | 366.0 | 262.4 | 234.8 | 231.6 | 225.1 | 199.2 | 163.6 | 160.3 |
| 65° | 9376.0 | 4917.2 | 647.9 | 304.5 | 225.1 | 205.7 | 207.3 | 196.0 | 162.0 | 121.5 | 118.2 |
| 67.5° | 8329.8 | 3595.6 | 414.6 | 249.4 | 187.9 | 171.7 | 173.3 | 166.8 | 137.7 | 103.7 | 98.8 |
| 70° | 6996.8 | 2380.9 | 270.5 | 189.5 | 150.6 | 132.8 | 142.5 | 144.1 | 116.6 | 84.2 | 81.0 |
| 72.5° | 5129.4 | 1405.8 | 189.5 | 140.9 | 110.1 | 92.3 | 116.6 | 119.9 | 93.9 | 63.2 | 59.9 |
| 75° | 2923.4 | 667.3 | 142.5 | 102.0 | 68.0 | 64.8 | 90.7 | 90.7 | 64.8 | 42.1 | 38.9 |
| 77.5° | 1227.7 | 278.6 | 100.4 | 66.4 | 38.9 | 37.3 | 61.5 | 56.7 | 32.4 | 19.4 | 19.4 |
| 80° | 354.7 | 124.7 | 53.4 | 32.4 | 16.2 | 14.6 | 24.3 | 17.8 | 8.1 | 3.2 | 3.2 |
| 82.5° | 139.3 | 55.1 | 21.1 | 13.0 | 6.5 | 6.5 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 82.6 | 22.7 | 9.7 | 4.9 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 21.1 | 4.9 | 3.2 | 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)