

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: P883281

Luminaire Tested: **NVN-SB3C-750-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3C-750-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23937 lumens
Efficiency: N/A
Efficacy: 160.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

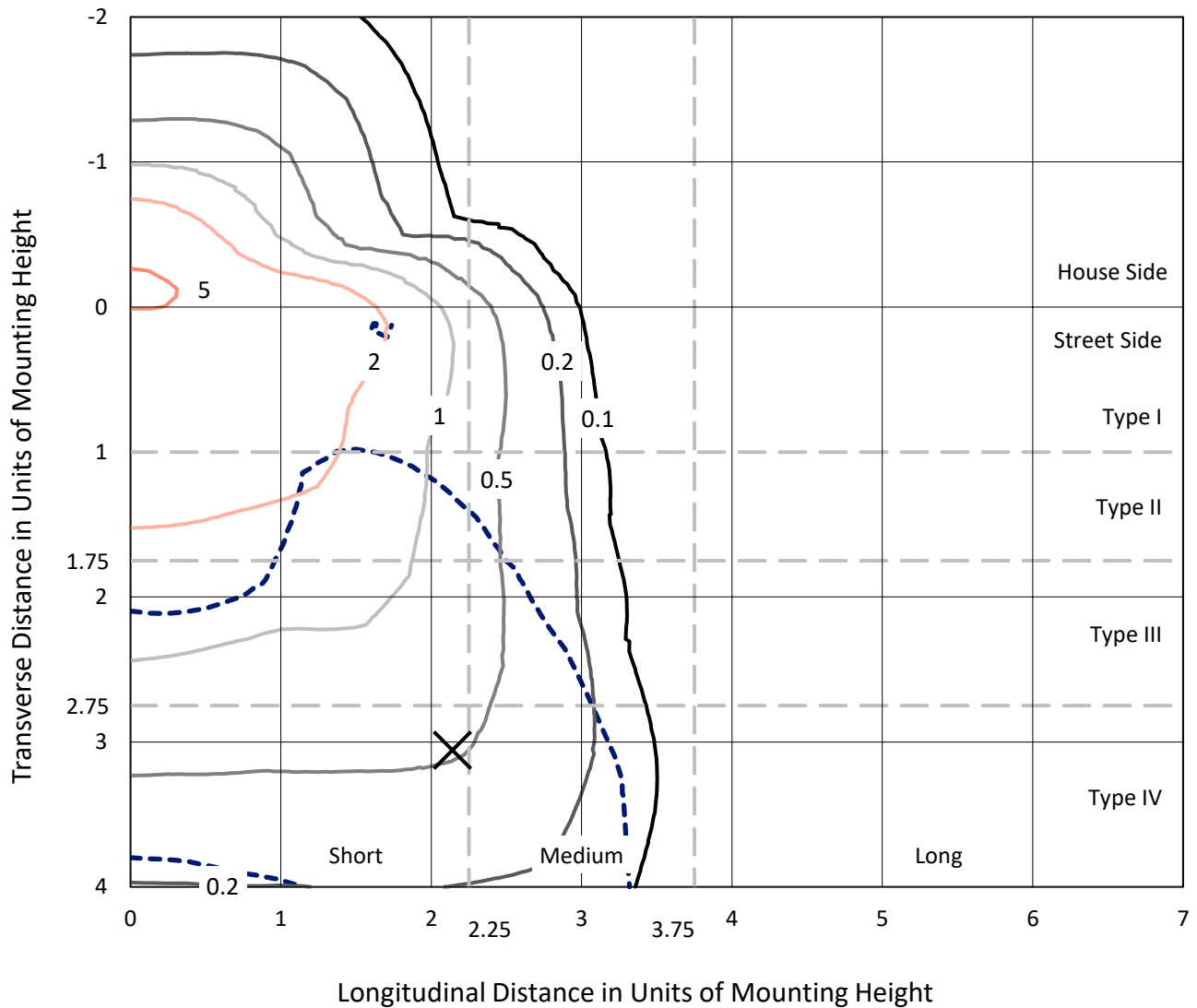
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

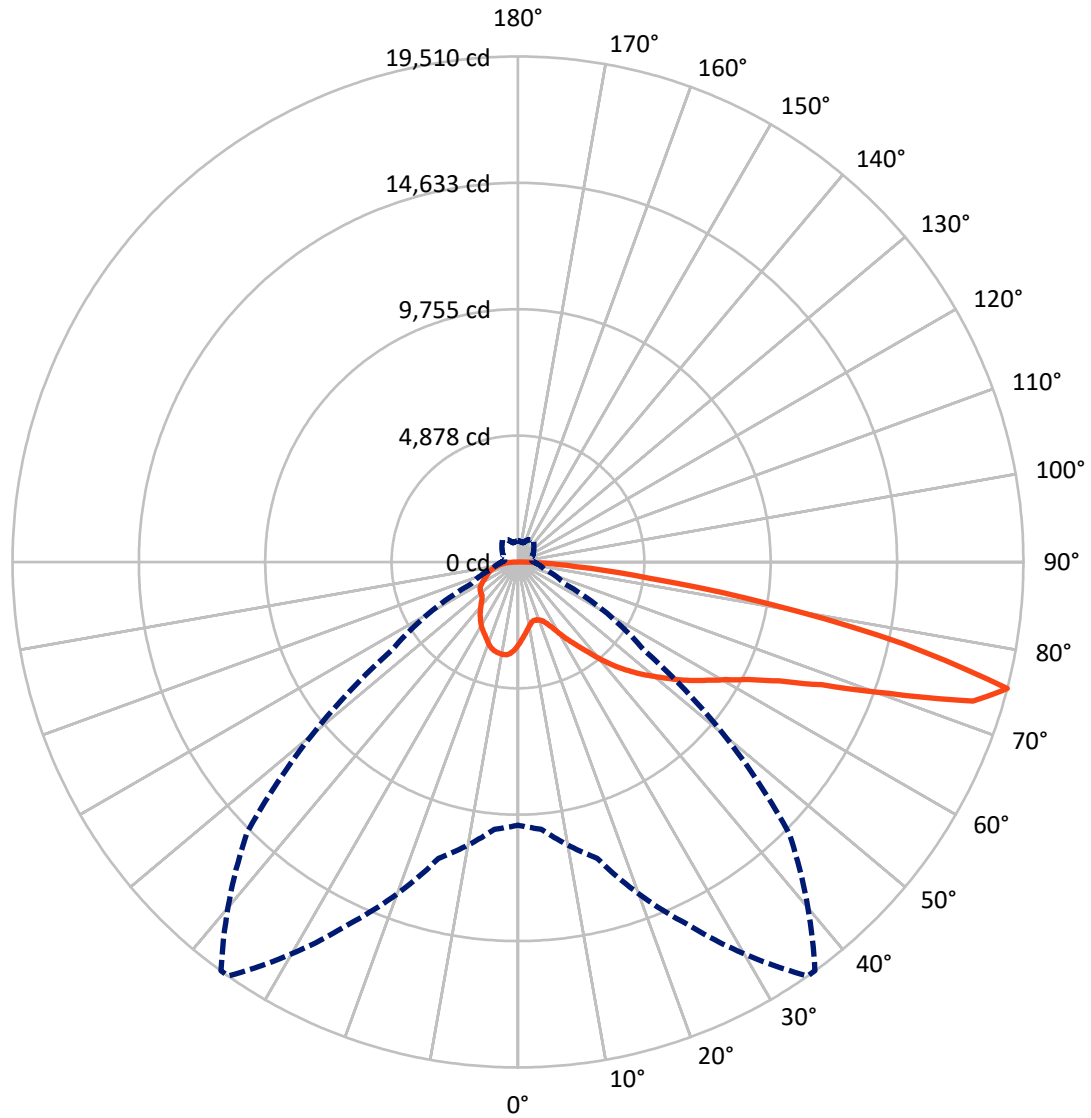
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5696.4 | 0.0 | 5696.4 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 18240.6 | 0.0 | 18240.6 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 23937.0 | 0.0 | 23937.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 302.0 | 1.3 |
| 10°-20° | 871.1 | 3.6 |
| 20°-30° | 1462.8 | 6.1 |
| 30°-40° | 2273.5 | 9.5 |
| 40°-50° | 3374.4 | 14.1 |
| 50°-60° | 4658.6 | 19.5 |
| 60°-70° | 5651.9 | 23.6 |
| 70°-80° | 4670.9 | 19.5 |
| 80°-90° | 671.8 | 2.8 |
| 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° | 23937.0 | 100.0 |
| 0°-180° | 23937.0 | 100.0 |

Coefficient of Utilization



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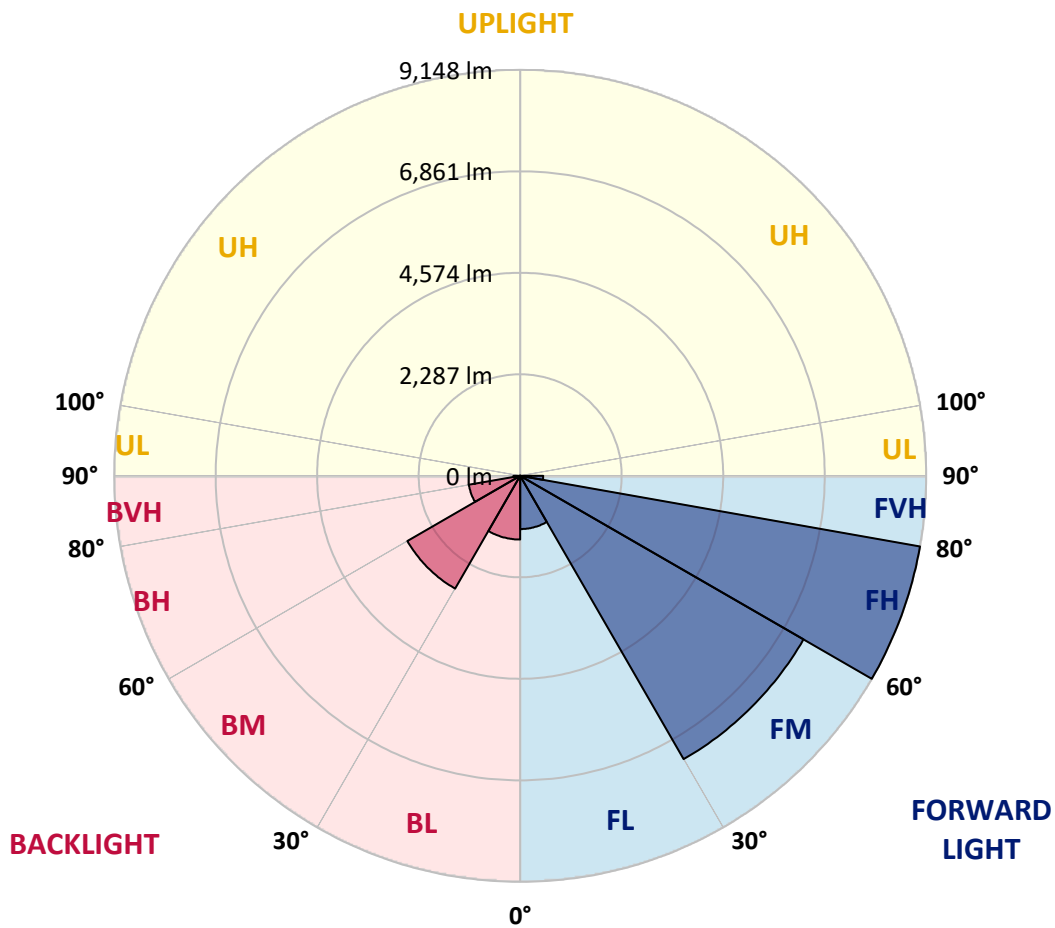
CATALOG NUMBER: NVN-SB3C-750-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1200.4 | 5.0 | | | |
| FM (30°-60°) | 7371.3 | 30.8 | | | |
| FH (60°-80°) | 9148.4 | 38.2 | | | G4/12000 |
| FVH (80°-90°) | 520.5 | 2.2 | | | G4/750 |
| BL (0°-30°) | 1435.6 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 2935.1 | 12.3 | B3/5000 | | |
| BH (60°-80°) | 1174.4 | 4.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 151.3 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 3189.8 | 3189.8 | 3189.8 | 3189.8 | 3189.8 | 3189.8 | 3189.8 | 3189.8 | 3189.8 | 3189.8 | 3189.8 |
| 2.5° | 2941.3 | 2959.4 | 2967.2 | 2963.3 | 2982.7 | 2980.1 | 3007.3 | 3041.0 | 3087.5 | 3132.8 | 3198.8 |
| 5° | 2714.9 | 2734.3 | 2751.1 | 2766.6 | 2804.1 | 2815.8 | 2858.5 | 2923.2 | 3008.6 | 3095.3 | 3204.0 |
| 7.5° | 2503.9 | 2520.8 | 2546.6 | 2575.1 | 2638.5 | 2650.2 | 2721.3 | 2822.3 | 2941.3 | 3068.1 | 3218.2 |
| 10° | 2331.8 | 2348.7 | 2375.8 | 2408.2 | 2487.1 | 2501.3 | 2591.9 | 2726.5 | 2881.8 | 3042.2 | 3233.8 |
| 12.5° | 2258.1 | 2263.2 | 2278.8 | 2311.1 | 2379.7 | 2388.8 | 2488.4 | 2642.4 | 2823.6 | 3022.8 | 3257.1 |
| 15° | 2254.2 | 2264.5 | 2265.8 | 2282.7 | 2339.6 | 2343.5 | 2435.4 | 2588.0 | 2787.3 | 3019.0 | 3292.0 |
| 17.5° | 2293.0 | 2300.8 | 2289.1 | 2299.5 | 2347.4 | 2353.8 | 2426.3 | 2562.2 | 2775.7 | 3035.8 | 3351.5 |
| 20° | 2396.5 | 2403.0 | 2368.1 | 2353.8 | 2388.8 | 2393.9 | 2465.1 | 2579.0 | 2787.3 | 3070.7 | 3433.0 |
| 22.5° | 2616.5 | 2620.4 | 2535.0 | 2476.8 | 2479.3 | 2481.9 | 2544.0 | 2647.6 | 2832.6 | 3134.1 | 3536.6 |
| 25° | 2959.4 | 2956.8 | 2821.0 | 2708.4 | 2643.7 | 2629.5 | 2670.9 | 2758.9 | 2909.0 | 3218.2 | 3669.8 |
| 27.5° | 3360.6 | 3341.2 | 3205.3 | 3037.1 | 2896.0 | 2875.3 | 2866.3 | 2903.8 | 3017.7 | 3329.5 | 3832.9 |
| 30° | 3813.5 | 3795.4 | 3649.1 | 3429.2 | 3233.8 | 3200.1 | 3114.7 | 3095.3 | 3179.4 | 3480.9 | 4059.4 |
| 32.5° | 4310.4 | 4298.7 | 4124.1 | 3857.5 | 3596.1 | 3557.3 | 3413.6 | 3361.9 | 3427.9 | 3710.0 | 4375.1 |
| 35° | 4727.1 | 4716.7 | 4571.8 | 4297.5 | 3977.8 | 3929.9 | 3783.7 | 3725.5 | 3759.1 | 4003.7 | 4787.9 |
| 37.5° | 5103.6 | 5098.5 | 4974.2 | 4758.1 | 4428.1 | 4369.9 | 4205.6 | 4186.2 | 4179.7 | 4390.6 | 5288.7 |
| 40° | 5453.0 | 5440.1 | 5310.7 | 5196.8 | 4952.2 | 4899.2 | 4754.2 | 4737.4 | 4688.2 | 4866.8 | 5855.5 |
| 42.5° | 5839.9 | 5806.3 | 5618.6 | 5565.6 | 5499.6 | 5455.6 | 5368.9 | 5371.5 | 5262.8 | 5403.8 | 6455.9 |
| 45° | 6155.7 | 6136.3 | 5943.4 | 5912.4 | 5983.6 | 5965.4 | 6040.5 | 6059.9 | 5849.0 | 5966.7 | 7079.6 |
| 47.5° | 6494.7 | 6476.6 | 6313.5 | 6291.5 | 6484.4 | 6489.5 | 6754.8 | 6761.3 | 6420.9 | 6551.6 | 7704.6 |
| 50° | 6912.7 | 6886.8 | 6725.0 | 6752.2 | 6968.3 | 6987.7 | 7473.0 | 7429.0 | 6947.6 | 7145.6 | 8324.5 |
| 52.5° | 7188.3 | 7203.8 | 7168.9 | 7212.9 | 7507.9 | 7526.0 | 8179.5 | 8066.9 | 7469.1 | 7731.8 | 8932.6 |
| 55° | 7391.5 | 7422.5 | 7531.2 | 7632.1 | 8077.3 | 8095.4 | 8845.9 | 8673.8 | 7901.3 | 8275.3 | 9504.6 |
| 57.5° | 7652.9 | 7608.9 | 7812.0 | 8008.7 | 8618.2 | 8666.1 | 9494.2 | 9258.7 | 8284.3 | 8743.7 | 9896.7 |
| 60° | 8028.1 | 7997.1 | 8154.9 | 8446.1 | 9223.8 | 9300.1 | 10180.1 | 9785.4 | 8565.1 | 9115.1 | 9973.0 |
| 62.5° | 8789.0 | 8711.4 | 8736.0 | 8993.5 | 9987.3 | 10088.2 | 10953.9 | 10244.8 | 8704.9 | 9260.0 | 9564.1 |
| 65° | 9926.5 | 9793.2 | 9668.9 | 9847.5 | 11062.6 | 11162.2 | 11827.4 | 10605.8 | 8653.1 | 8979.2 | 8478.4 |
| 67.5° | 11358.9 | 11226.9 | 11074.3 | 11242.5 | 12646.5 | 12725.4 | 12905.3 | 10809.0 | 8245.5 | 7897.4 | 6559.4 |
| 70° | 12540.4 | 12491.2 | 12673.7 | 13366.0 | 15176.3 | 15178.9 | 14287.3 | 10640.8 | 7128.8 | 5599.2 | 3795.4 |
| 72.5° | 12383.8 | 12354.0 | 13315.5 | 15455.8 | 18364.8 | 18296.2 | 15595.6 | 9367.4 | 4802.1 | 2525.9 | 1422.1 |
| 75° | 10159.4 | 10352.2 | 11841.6 | 15418.3 | 19510.0 | 19500.9 | 14794.6 | 5955.1 | 1986.3 | 1046.9 | 735.0 |
| 77.5° | 5447.8 | 5753.2 | 7687.8 | 11383.5 | 15230.7 | 15459.7 | 10401.4 | 2083.4 | 852.8 | 670.3 | 508.6 |
| 80° | 1776.7 | 2043.3 | 3064.2 | 5795.9 | 9896.7 | 9854.0 | 4457.9 | 817.8 | 583.6 | 474.9 | 352.0 |
| 82.5° | 754.4 | 785.5 | 1369.1 | 2736.9 | 5079.0 | 5000.1 | 1419.5 | 469.7 | 410.2 | 324.8 | 217.4 |
| 85° | 295.0 | 330.0 | 604.3 | 1265.6 | 2199.8 | 2152.0 | 512.4 | 232.9 | 262.7 | 212.2 | 129.4 |
| 87.5° | 97.1 | 117.8 | 216.1 | 433.5 | 684.5 | 660.0 | 125.5 | 80.2 | 113.9 | 97.1 | 46.6 |
| 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-SB3C-750-U-T4FT

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3189.8 | 3189.8 | 3189.8 | 3189.8 | 3189.8 | 3189.8 | 3189.8 | 3189.8 | 3189.8 | 3189.8 | 3189.8 |
| 2.5° | 3216.9 | 3237.6 | 3262.2 | 3298.5 | 3329.5 | 3355.4 | 3382.6 | 3399.4 | 3405.9 | 3425.3 | 3424.0 |
| 5° | 3240.2 | 3285.5 | 3346.3 | 3405.9 | 3464.1 | 3499.0 | 3530.1 | 3545.6 | 3559.9 | 3570.2 | 3572.8 |
| 7.5° | 3279.1 | 3337.3 | 3433.0 | 3510.7 | 3559.9 | 3588.3 | 3609.0 | 3603.9 | 3609.0 | 3611.6 | 3615.5 |
| 10° | 3312.7 | 3394.2 | 3508.1 | 3581.9 | 3619.4 | 3620.7 | 3615.5 | 3597.4 | 3588.3 | 3589.6 | 3592.2 |
| 12.5° | 3352.8 | 3443.4 | 3566.3 | 3628.4 | 3638.8 | 3610.3 | 3588.3 | 3557.3 | 3545.6 | 3540.4 | 3537.9 |
| 15° | 3407.2 | 3510.7 | 3629.7 | 3653.0 | 3627.1 | 3590.9 | 3553.4 | 3502.9 | 3477.0 | 3456.3 | 3462.8 |
| 17.5° | 3473.2 | 3587.0 | 3678.9 | 3662.1 | 3606.4 | 3546.9 | 3486.1 | 3409.8 | 3356.7 | 3334.7 | 3336.0 |
| 20° | 3565.0 | 3667.3 | 3716.4 | 3642.7 | 3558.6 | 3468.0 | 3364.5 | 3271.3 | 3222.1 | 3200.1 | 3197.5 |
| 22.5° | 3676.3 | 3774.7 | 3752.7 | 3609.0 | 3490.0 | 3345.0 | 3215.6 | 3147.1 | 3122.5 | 3106.9 | 3109.5 |
| 25° | 3809.6 | 3893.7 | 3778.5 | 3559.9 | 3377.4 | 3182.0 | 3082.4 | 3060.4 | 3048.7 | 3037.1 | 3037.1 |
| 27.5° | 3983.0 | 4028.3 | 3798.0 | 3487.4 | 3201.4 | 3008.6 | 2972.4 | 2976.3 | 2972.4 | 2953.0 | 2956.8 |
| 30° | 4212.0 | 4203.0 | 3816.1 | 3369.6 | 2999.5 | 2852.0 | 2854.6 | 2871.4 | 2874.0 | 2861.1 | 2867.6 |
| 32.5° | 4513.6 | 4421.7 | 3825.1 | 3216.9 | 2806.7 | 2714.9 | 2717.4 | 2735.6 | 2748.5 | 2726.5 | 2736.9 |
| 35° | 4878.5 | 4676.6 | 3810.9 | 3025.4 | 2657.9 | 2584.2 | 2564.8 | 2569.9 | 2573.8 | 2553.1 | 2567.3 |
| 37.5° | 5304.2 | 4962.6 | 3747.5 | 2813.2 | 2535.0 | 2456.1 | 2414.6 | 2379.7 | 2359.0 | 2339.6 | 2352.5 |
| 40° | 5771.3 | 5274.4 | 3631.0 | 2606.2 | 2397.8 | 2320.2 | 2258.1 | 2192.1 | 2122.2 | 2096.3 | 2108.0 |
| 42.5° | 6260.5 | 5595.4 | 3490.0 | 2408.2 | 2240.0 | 2176.5 | 2110.6 | 2014.8 | 1910.0 | 1856.9 | 1863.4 |
| 45° | 6767.7 | 5924.0 | 3351.5 | 2212.8 | 2078.2 | 2051.0 | 1974.7 | 1859.5 | 1745.6 | 1678.3 | 1673.2 |
| 47.5° | 7264.6 | 6234.6 | 3148.4 | 2016.1 | 1926.8 | 1956.6 | 1897.0 | 1790.9 | 1664.1 | 1558.0 | 1546.4 |
| 50° | 7739.6 | 6525.8 | 2815.8 | 1816.8 | 1803.9 | 1928.1 | 1871.2 | 1718.5 | 1573.5 | 1437.7 | 1426.0 |
| 52.5° | 8210.6 | 6761.3 | 2390.1 | 1635.6 | 1737.9 | 1920.3 | 1837.5 | 1669.3 | 1492.0 | 1349.7 | 1334.1 |
| 55° | 8610.4 | 6882.9 | 1979.9 | 1480.4 | 1642.1 | 1854.3 | 1797.4 | 1611.1 | 1376.8 | 1225.4 | 1212.5 |
| 57.5° | 8838.2 | 6784.6 | 1638.2 | 1327.7 | 1510.1 | 1745.6 | 1728.8 | 1486.8 | 1239.7 | 1123.2 | 1107.7 |
| 60° | 8739.8 | 6386.0 | 1358.7 | 1194.4 | 1384.6 | 1627.9 | 1609.8 | 1363.9 | 1134.9 | 1024.9 | 1009.3 |
| 62.5° | 8197.6 | 5626.4 | 1137.4 | 1077.9 | 1270.7 | 1507.5 | 1490.7 | 1269.4 | 1054.6 | 948.5 | 931.7 |
| 65° | 7105.5 | 4577.0 | 965.3 | 980.9 | 1155.6 | 1362.6 | 1387.2 | 1190.5 | 991.2 | 887.7 | 870.9 |
| 67.5° | 5419.4 | 3315.3 | 830.8 | 896.8 | 1043.0 | 1220.3 | 1291.4 | 1133.6 | 938.2 | 839.8 | 824.3 |
| 70° | 3088.8 | 1882.8 | 716.9 | 815.2 | 943.3 | 1088.3 | 1217.7 | 1088.3 | 881.2 | 799.7 | 789.4 |
| 72.5° | 1171.1 | 864.4 | 619.8 | 733.7 | 847.6 | 977.0 | 1136.2 | 1017.1 | 815.2 | 754.4 | 744.1 |
| 75° | 625.0 | 526.7 | 521.5 | 638.0 | 737.6 | 868.3 | 1033.9 | 947.2 | 766.1 | 797.1 | 823.0 |
| 77.5° | 425.7 | 372.7 | 436.1 | 546.1 | 617.2 | 747.9 | 925.2 | 841.1 | 663.8 | 661.2 | 609.5 |
| 80° | 295.0 | 264.0 | 354.6 | 440.0 | 477.5 | 628.9 | 807.5 | 722.1 | 540.9 | 504.7 | 482.7 |
| 82.5° | 177.3 | 172.1 | 265.3 | 328.7 | 337.7 | 485.3 | 669.0 | 605.6 | 442.6 | 385.6 | 388.2 |
| 85° | 97.1 | 102.2 | 169.5 | 192.8 | 196.7 | 339.0 | 524.1 | 468.4 | 340.3 | 286.0 | 288.6 |
| 87.5° | 27.2 | 34.9 | 62.1 | 76.3 | 94.5 | 176.0 | 311.9 | 278.2 | 170.8 | 119.1 | 119.1 |
| 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)